



# The bidi Package

Source documentation for [version 25.09.03](#)

to my Master, *Ferdowsi The Great*

If you want to report any bugs or typos and corrections in the documentation, or ask for any new features, or suggest any improvements, or ask any questions about the package, then please use the issue tracker:

<https://github.com/xepersian/bidi/issues>

In doing so, please always explain your issue well enough, and always include a minimal working example showing the issue.

You may also have conversations, ask questions and post answers without opening issues using the Discussions space:

<https://github.com/xepersian/bidi/discussions>

The announcements for the new releases of the package will also appear in the Discussions space under the Announcements category.

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# The *bidi* Package

## Bidirectional typesetting with plain $\text{\TeX}$ and $\text{\LaTeX}$ formats in Xe $\text{\TeX}$ and Lua $\text{\TeX}$ engines

Source documentation for [version 25.09.03](#)

Vafa Khalighi\*

September 3, 2025

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## 1 File amsart-xetex-bidi.def

```
1 \ProvidesFile{amsart-xetex-bidi.def}[2017/08/09 v1.1 bidi adaptations for amsart class for X
2 \def\tocline#1#2#3#4#5#6#7{\relax
3   \ifnum #1>\c@tocdepth % then omit
4   \else
5     \par \addpenalty\@secpenalty\addvspace{#2}%
6     \begingroup \hyphenpenalty\@M
7     \@ifempty{#4}{%
8       \@tempdima\csname r@tocindent\number#1\endcsname\relax
9     }{%
10      \@tempdima#4\relax
11    }%
12    \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\
13    \if@RTL\leftskip\else\righskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
14    #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
15    \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
16    \nobreak
17  \endgroup
18 \fi}
19 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
20 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
21 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
22 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
23 \def\part{\@startsection{part}{0}%
24   \z@{\linespacing\@plus\linespacing}{.5\linespacing}%
25   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
26 \def\right@footnoterule{%
27   \kern-.4\p@
28   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
29   \kern11\p@\kern-\footnotesep}
30 \def\left@footnoterule{\kern-.4\p@
31   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
32
33
34 \long\def\@footnotetext#1{%
35   \insert\footins{%
36     \if@RTL\footnote\@RTLtrue\else\@RTLfalse\fi%
37     \reset@font%
38     \bidi@footnotetext@font% \normalfont\footnotesize
39     \interlinepenalty\interfootnotelinepenalty
40     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
41     \floatingpenalty\@MM \hsize\columnwidth
42     \@parboxrestore \parindent\normalparindent \sloppy
43     \protected@edef\@currentlabel{%
44       \csname p@footnote\endcsname\@thefnmark}%
45     \@makefntext{%
46       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}}%
47
48 \long\def\@RTLfootnotetext#1{%
49   \insert\footins{%
50     \@RTLtrue%
51     \reset@font%
52     \bidi@RTLfootnotetext@font% \normalfont\footnotesize
```



```

53 \interlinepenalty\interfootnotelinepenalty
54 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
55 \floatingpenalty\@MM \hsize\columnwidth
56 \@parboxrestore \parindent\normalparindent \sloppy
57 \protected@edef\@currentlabel{%
58 \csname p@footnote\endcsname\@thefnmark}%
59 \@makefnmark%
60 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}
61
62
63
64 \long\def\@LTRfootnotetext#1{%
65 \insert\footins{%
66 \@RTLfalse%
67 \reset@font%
68 \bidi@LTRfootnotetext@font% \normalfont\footnotesize
69 \interlinepenalty\interfootnotelinepenalty
70 \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
71 \floatingpenalty\@MM \hsize\columnwidth
72 \@parboxrestore \parindent\normalparindent \sloppy
73 \protected@edef\@currentlabel{%
74 \csname p@footnote\endcsname\@thefnmark}%
75 \@makefnmark%
76 \rule{z@\footnotesep\ignorespaces#1\unskip\strut\par}}}
77
78
79 \footdir@temp\footdir@ORG@bidi@amsart@footnotetext\@footnotetext{\bidi@footdir@footnote}%
80 \footdir@temp\footdir@ORG@bidi@amsart@RTLfootnotetext\@RTLfootnotetext{R}%
81 \footdir@temp\footdir@ORG@bidi@amsart@LTRfootnotetext\@LTRfootnotetext{L}%
82
83 \renewenvironment{thebibliography}[1]{%
84 \@bibtitlestyle
85 \normalfont\bibliofont\labelsep .5em\relax
86 \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
87 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
88 \bidi@thebibliography@font@hook%
89 \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
90 \leftmargin\labelwidth \advance\leftmargin\labelsep
91 \usecounter{enumiv}}%
92 \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
93 \sfcode`\.=\@m
94 }{%
95 \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
96 \endlist
97 }
98 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
99 \columnseprule{z@ \columnsep 35\p@
100 \@indextitlestyle
101 \thispagestyle{plain}%
102 \let\item\@idxitem
103 \parindent{z@ \parskip{z@ \@plus.3\p@}\relax
104 \if@RTL\raggedleft\else\raggedright\fi
105 \hyphenpenalty\@M
106 \footnotesize}

```



```

107 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
108 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
109 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
110 \def\maketitle{\par
111   \@topnum\z@ % this prevents figures from falling at the top of page 1
112   \@setcopyright
113   \thispagestyle{firstpage}% this sets first page specifications
114   \uppercase\nonmath\shorttitle
115   \ifx\@empty\shortauthors \let\shortauthors\shorttitle
116   \else \andify\shortauthors
117   \fi
118   \@maketitle@hook
119   \begingroup
120   \@maketitle
121   \toks@{\exp{\shortauthors}\@temptokena\exp{\shorttitle}}%
122   \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
123   \edef\@tempa{%
124     \@nx\markboth{\the\toks4
125       \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
126   \@tempa
127   \endgroup
128   \c@footnote\z@
129   \cleartopmattertags
130 }

```

## 2 File adjmulticol-xetex-bidi.def

```

131 \ProvidesFile{adjmulticol-xetex-bidi.def}[2015/04/25 v0.1 bidi adaptations for adjmulticol p
132 \def\adjmulticols#1#2#3{\col@number#1\relax
133   \def\@tempa{#2}%
134   \ifx\@tempa\@empty\adjmc@inner\z@\else\adjmc@inner#2\fi
135   \def\@tempa{#3}%
136   \ifx\@tempa\@empty\adjmc@outer\z@\else\adjmc@outer#3\fi
137   \ifnum\col@number<\@ne
138     \PackageWarning{adjmulticol}%
139       {Using '\number\col@number'
140        columns doesn't seem a good idea.^^J
141        I therefore use one columns instead}%
142     \col@number\@ne\fi
143   \ifnum\col@number>10
144     \PackageError{adjmulticol}%
145       {Too many columns}%
146       {Current implementation doesn't
147        support more than 10 columns.%
148       \MessageBreak
149        I therefore use 10 columns instead}%
150     \col@number10 \fi
151   \ifx\@footnotetext\mult@footnotetext\else
152     \let\orig@footnotetext\@footnotetext
153     \let\@footnotetext\mult@footnotetext
154   \fi
155   \ifx\@LTRfootnotetext\mult@LTRfootnotetext\else
156     \let\orig@LTRfootnotetext\@LTRfootnotetext
157     \let\@LTRfootnotetext\mult@LTRfootnotetext

```





```

158 \fi
159 \ifx\@RTLfootnotetext\mult@RTLfootnotetext\else
160 \let\orig@RTLfootnotetext\@RTLfootnotetext
161 \let\@RTLfootnotetext\mult@RTLfootnotetext
162 \fi
163 \@ifnextchar[\adjmult@cols{\adjmult@cols[]}]{}
164 \let\adjmc@page@sofar@orig=\page@sofar

```

### 3 File algorithm2e-xetex-bidi.def

```

165 \ProvidesFile{algorithm2e-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for algorithm2e p
166 \expandafter\ifx\cscname algocf@within\endcsname\relax% if \algocf@within doesn't exist
167 \else%
168 \renewcommand\thealgocf{\cscname the\algocf@within\endcsname\@SepMark\@arabic\c@algocf}%
169 \fi
170 \ApplyPatchIfPackageLoadedF{color}{%
171 \bidi@patchcmd{\@algocf@start}{\bgroup}{%
172 \bgroup
173 \if@RTL
174 \beginR
175 \else
176 \beginL
177 \fi
178 }{}{}
179 \bidi@patchcmd{\@algocf@finish}{\egroup\end{lrbox}}{%
180 \if@RTL
181 \endR
182 \else
183 \endL
184 \fi
185 \egroup
186 \end{lrbox}}%
187 }{}{}
188 \bidi@patchcmd{\algocf@makecaption}{\hbox}{%
189 \if@RTL
190 \hboxR
191 \else
192 \hboxL
193 \fi
194 }{}{}
195 }
196
197 \@ifpackagewith{algorithm2e}{algonl}{%
198 \renewcommand{\theAlgoLine}{\expandafter\cscname the\algocf@float\endcsname\@SepMark\arabic{A
199 }{}
200
201 \@ifpackagewith{algorithm2e}{algotpart}{\renewcommand{\algocf@within}{part}}{}
202
203 \@ifpackagewith{algorithm2e}{algotchapter}{\renewcommand{\algocf@within}{chapter}}{}
204
205 \@ifpackagewith{algorithm2e}{algotsection}{\renewcommand{\algocf@within}{section}}{}

```

### 4 File amsbook-xetex-bidi.def



```

206 \ProvidesFile{amsbook-xetex-bidi.def}[2017/08/09 v1.2 bidi adaptations for amsbook class for
207 \def\@tocline#1#2#3#4#5#6#7{\relax
208   \ifnum #1>\c@tocdepth % then omit
209   \else
210     \par \addpenalty\@secpenalty\addvspace{#2}%
211     \begingroup \hyphenpenalty\@M
212     \@ifempty{#4}{%
213       \@tempdima\csname r@tocindent\number#1\endcsname\relax
214     }{%
215       \@tempdima#4\relax
216     }%
217     \parindent\z@ \if@RTL\rightskip\else\leftskip\fi#3\relax \advance\if@RTL\rightskip\else\leftskip\fi
218     \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
219     #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
220     \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
221     \nobreak
222   \endgroup
223 \fi}
224 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
225 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
226 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
227 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
228 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
229   \columnseprule\z@ \columnsep 35\p@
230   \@indextitlestyle
231   \thispagestyle{plain}%
232   \let\item\@idxitem
233   \parindent\z@ \parskip\z@\@plus.3\p@\relax
234   \if@RTL\raggedleft\else\raggedright\fi
235   \hyphenpenalty\@M
236   \footnotesize}
237 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
238 \def\subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
239 \def\subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
240 \def\right@footnoterule{%
241   \kern-.4\p@
242   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
243   \kern11\p@\kern-\footnotesep}
244 \def\left@footnoterule{\kern-.4\p@
245   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
246
247 \long\def\@footnotetext#1{%
248   \insert\footins{%
249     \if@RTL\footnote\@RTLtrue\else\@RTLfalse\fi%
250     \reset@font%
251     \bidi@footnotetext@font% \normalfont\footnotesize
252     \interlinepenalty\interfootnotelinepenalty
253     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
254     \floatingpenalty\@MM \hsize\columnwidth
255     \@parboxrestore \parindent\normalparindent \sloppy
256     \protected@edef\@currentlabel{%
257       \csname p@footnote\endcsname\@thefnmark}%
258     \@makefntext{%
259       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}

```



```

260
261 \long\def\@RTLfootnotetext#1{%
262   \insert\footins{%
263     \@RTLtrue%
264     \reset@font%
265     \bidi@RTLfootnotetext@font% \normalfont\footnotesize
266     \interlinepenalty\interfootnotelinepenalty
267     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
268     \floatingpenalty\@MM \hsize\columnwidth
269     \@parboxrestore \parindent\normalparindent \sloppy
270     \protected@edef\@currentlabel{%
271       \csname p@footnote\endcsname\@thefnmark}%
272     \@makefnfntext{%
273       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
274
275
276 \long\def\@LTRfootnotetext#1{%
277   \insert\footins{%
278     \@RTLfalse%
279     \reset@font%
280     \bidi@LTRfootnotetext@font% \normalfont\footnotesize
281     \interlinepenalty\interfootnotelinepenalty
282     \splittopskip\footnotesep \splitmaxdepth \dp\strutbox
283     \floatingpenalty\@MM \hsize\columnwidth
284     \@parboxrestore \parindent\normalparindent \sloppy
285     \protected@edef\@currentlabel{%
286       \csname p@footnote\endcsname\@thefnmark}%
287     \@makefnfntext{%
288       \rule\z@\footnotesep\ignorespaces#1\unskip\strut\par}}
289
290
291
292 \footdir@temp\footdir@ORG@bidi@amsbook@footnotetext\@footnotetext{\bidi@footdir@footnote}%
293 \footdir@temp\footdir@ORG@bidi@amsbook@RTLfootnotetext\@RTLfootnotetext{R}%
294 \footdir@temp\footdir@ORG@bidi@amsbook@LTRfootnotetext\@LTRfootnotetext{L}%
295
296 \renewenvironment{thebibliography}[1]{%
297   \@bibtitlestyle
298   \normalfont\bibliofont\labelsep .5em\relax
299   \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
300   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
301   \bidi@thebibliography@font@hook%
302   \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
303     \leftmargin\labelwidth \advance\leftmargin\labelsep
304     \usecounter{enumiv}}%
305   \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
306   \sfcode`\.=\@m
307 }{%
308   \def\@noitemerr{\@latex@warning{Empty 'thebibliography' environment}}%
309   \endlist
310 }
311 \def\@makechapterhead#1{\global\topskip 7.5pc\relax
312   \begingroup
313   \fontsize{\@xivpt}{18}\bfseries\centering

```



```

314 \ifnum\c@secnumdepth>\m@ne
315 \leavevmode \hskip-\if@RTL\rightskip\else\leftskip\fi
316 \rlap{\vbox to\z@{\vss
317 \centerline{\normalsize\mdseries
318 \uppercase\@xp{\chaptername}\enspace\thechapter}
319 \vskip 3pc}}\hskip\if@RTL\rightskip\else\leftskip\fi\fi
320 #1\par \endgroup
321 \skip@34\p@ \advance\skip@-\normalbaselineskip
322 \vskip\skip@ }
323 \def\maketitle{\par
324 \@topnum\z@ % this prevents figures from falling at the top of page 1
325 \begingroup
326 \@maketitle
327 \endgroup
328 \c@footnote\z@
329 \def\do##1{\let##1\relax}%
330 \do\maketitle \do\@maketitle \do\title \do\@xtitle \do\@title
331 \do\author \do\@xauthor \do\address \do\@xaddress
332 \do\email \do\@xemail \do\curraddr \do\@xcurraddr
333 \do\dedicatory \do\@dedicatory \do\thanks \do\thankses
334 \do\keywords \do\@keywords \do\subjclass \do\@subjclass
335 }

```

## 5 File amsmath-xetex-bidi.def

```

336 \ProvidesFile{amsmath-xetex-bidi.def}[2020/05/16 v1.2 bidi adaptations for amsmath package f
337 \let\veqno=\eqno
338 \iftagsleft@ \let\veqno=\leqno \fi
339 \renewcommand{\numberwithin}[3][\arabic]{%
340 \ifundefined{c@#2}{\nocounterr{#2}}{%
341 \ifundefined{c@#3}{\nocnterr{#3}}{%
342 \@addtoreset{#2}{#3}%
343 \@xp\xdef\csname the#2\endcsname{%
344 \@xp\@nx\csname the#3\endcsname \@nx\@SepMark\@nx#1{#2}}}%
345 }
346 \def\tagform@#1{\maketag@@@{\if@nonlatin\beginR\fi(\kern\z@\ignorespaces#1\unskip\@italicco
347
348 \bidi@patchcmd\math@cr@@@align\place@tag{%
349 \place@tag
350 \else
351 \place@tag
352 }{}{}
353

```

## 6 File amstext-xetex-bidi.def

```

354 \ProvidesFile{amstext-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for amstext package f
355 \def\textdef@#1#2#3{\hbox{%
356 \everymath{#1}%
357 \let\fontsize#2\selectfont
358 \if@nonlatin\beginR\fi#3\if@nonlatin\endR\fi}}}

```

## 7 File amsthm-xetex-bidi.def



```

359 \ProvidesFile{amsthm-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for amsthm package for
360 \def\@thmcountersep{\@SepMark}

```

## 8 File array-xetex-bidi.def

```

361 \ProvidesFile{array-xetex-bidi.def}[2024/12/10 v0.5 bidi adaptations for array package for X
362 \def\@testpach{\@chclass
363 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
364 \ifnum \@lastchclass=7 5 \else
365 \ifnum \@lastchclass=8 \tw@ \else
366 \ifnum \@lastchclass=9 \thr@@
367 \else \z@
368 \ifnum \@lastchclass = 10 \else
369 \edef\@nextchar{\expandafter\string\@nextchar}%
370 \@chnum
371 \if \@nextchar c\z@ \else
372 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
373 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
374 \z@ \@chclass
375 \if \@nextchar |\@ne \else
376 \if \@nextchar !6 \else
377 \if \@nextchar @7 \else
378 \if \@nextchar <8 \else
379 \if \@nextchar >9 \else
380 10
381 \@chnum
382 \if \@nextchar m\thr@@ \else
383 \if \@nextchar p4 \else
384 \if \@nextchar b5 \else
385 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi
386 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi
387 \def\@tabular{%
388 \leavevmode
389 \hbox \bgroup\if@RTLtab\beginR \fi
390 \UseTaggingSocket{tbl/hmode/begin}%
391 $\col@sep\tabcolsep \let\d@llarbegin\beginngroup
392 \let\d@llarend\endgroup
393 \@tabarray}
394 \def\endtabular{\endarray\m@th $
395 \UseTaggingSocket{tbl/hmode/end}%
396 \if@RTLtab\endR\fi\egroup
397 }
398 \expandafter\let\csname endtabular*\endcsname=\endtabular
399 \ExplSyntaxOn
400 \def\@array[#1]#2{
401 \@tempdima \ht \strutbox
402 \advance \@tempdima by\extrarowheight
403 \setbox \@arstrutbox \hbox{\vrule
404 \@height \arraystretch \@tempdima
405 \@depth \arraystretch \dp \strutbox
406 \@width \z@}%
407 \tbl_save_outer_table_cols:
408 \beginngroup
409 \@mkpream{#2}%

```



```

410 \tbl_count_table_cols:
411 \xdef\@preamble{
412   \noexpand \ar@ialign
413   \@halignto
414   \bgroup \@arstrut
415   \UseTaggingSocket{tbl/row/begin}
416   \tbl_init_cell_data_for_row:
417   \@preamble
418   \tabskip \z@ \cr}
419 \endgroup
420 \@arrayleft
421 \if #1t\top \else \if#1b\vbox \else \vcenter \fi \fi
422 \bgroup
423 \let \@sharp ##\let \protect \relax
424 \lineskip \z@
425 \baselineskip \z@
426 \mathsurround \z@
427 \let\\\@arraycr \let\tabularnewline\\\let\par\@empty
428 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\top \else \vbox \fi\bgroup\fi
429 \UseTaggingSocket{tbl/init}
430 \@preamble
431 }
432 \ExplSyntaxOff
433 \let\@array\@array
434 \ExplSyntaxOn
435 \def\endarray {
436   \tbl_crr:n{endarray} \egroup
437   \UseTaggingSocket{tbl/finalize}
438   \tbl_restore_outer_cell_data:
439   \if@RTLtab\egroup\endR\egroup\fi
440   \egroup
441   \@arrayright \gdef\@preamble{}%
442 }
443 \ExplSyntaxOff
444 \def\array{\col@sep\arraycolsep
445   \def\dollarbegin{$}\let\dollarend\dollarbegin\def\@halignto{}%
446   \@RTLtabfalse\@tabarray}

```

## 9 File article-xetex-bidi.def

```

447 \ProvidesFile{article-xetex-bidi.def}[2025/01/05 v0.9 bidi adaptations for standard article]
448 \IfClassLoadedT{svmult}{\endinput}
449 \if@titlepage
450   \renewcommand\maketitle{\begin{titlepage}%
451     \let\footnotesize\small
452     \let\right@footnoterule\relax
453     \let\left@footnoterule\relax
454     \let\textwidth\footnoterule\relax
455     \let \footnote \thanks
456     \let \LTRfootnote \LTRthanks
457     \let \RTLfootnote \RTLthanks
458     \null\vfil
459     \vskip 60\p@
460     \begin{center}%

```



```

461 { \LARGE \@title \par}%
462 \vskip 3em%
463 { \large
464   \lineskip .75em%
465   \begin{tabular}[t]{c}%
466     \@author
467   \end{tabular}\par}%
468   \vskip 1.5em%
469   { \large \@date \par}%           % Set date in \large size.
470 \end{center}\par
471 \@thanks
472 \vfil\null
473 \end{titlepage}%
474 \setcounter{footnote}{0}%
475 \global\let\thanks\relax
476 \global\let\LTRthanks\relax
477 \global\let\RTLthanks\relax
478 \global\let\maketitle\relax
479 \global\let\@thanks\@empty
480 \global\let\@author\@empty
481 \global\let\@date\@empty
482 \global\let\@title\@empty
483 \global\let\title\relax
484 \global\let\author\relax
485 \global\let\date\relax
486 \global\let\and\relax
487 }
488 \else
489 \renewcommand\maketitle{\par
490   \begingroup
491     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
492     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
493     \long\def\@makefntext##1{\parindent 1em\noindent
494       \hb@xt@1.8em{%
495         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
496     \if@twocolumn
497       \ifnum \col@number=\@one
498         \@maketitle
499       \else
500         \twocolumn[\@maketitle]%
501       \fi
502     \else
503       \newpage
504       \global\@topnum\z@   % Prevents figures from going at top of page.
505       \@maketitle
506     \fi
507     \thispagestyle{plain}\@thanks
508   \endgroup
509   \setcounter{footnote}{0}%
510   \global\let\thanks\relax
511   \global\let\LTRthanks\relax
512   \global\let\RTLthanks\relax
513   \global\let\maketitle\relax
514   \global\let\@maketitle\relax

```



```

515 \global\let\@thanks\@empty
516 \global\let\@author\@empty
517 \global\let\@date\@empty
518 \global\let\@title\@empty
519 \global\let\title\relax
520 \global\let\author\relax
521 \global\let\date\relax
522 \global\let\and\relax
523 }
524 \def\@maketitle{%
525 \newpage
526 \null
527 \vskip 2em%
528 \begin{center}%
529 \let \footnote \thanks
530 \let \LTRfootnote \LTRthanks
531 \let \RTLfootnote \RTLthanks
532 {\LARGE \@title \par}%
533 \vskip 1.5em%
534 {\large
535 \lineskip .5em%
536 \begin{tabular}[t]{c}%
537 \@author
538 \end{tabular}\par}%
539 \vskip 1em%
540 {\large \@date}%
541 \end{center}%
542 \par
543 \vskip 1.5em}
544 \fi
545 \renewcommand*\l@part[2]{%
546 \ifnum \c@tocdepth >-2\relax
547 \addpenalty\@secpenalty
548 \addvspace{2.25em \@plus\p@}%
549 \setlength\@tempdima{3em}%
550 \begingroup
551 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
552 \parfillskip -\@pnumwidth
553 {\leavevmode
554 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
555 \nobreak
556 \if@compatibility
557 \global\@nobreaktrue
558 \everypar{\global\@nobreakfalse\everypar{}}%
559 \fi
560 \endgroup
561 \fi}
562 \renewcommand*\l@section[2]{%
563 \ifnum \c@tocdepth >\z@
564 \addpenalty\@secpenalty
565 \addvspace{1.0em \@plus\p@}%
566 \setlength\@tempdima{1.5em}%
567 \begingroup
568 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth

```





```

569 \parfillskip -\@pnumwidth
570 \leavevmode \bfseries
571 \advance\if@RTL\righskip\else\leftskip\fi\@tempdima
572 \hskip -\if@RTL\righskip\else\leftskip\fi
573 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
574 \endgroup
575 \fi}
576 \renewcommand\left@footnoterule{%
577 \kern-3\p@
578 \hrule\@width.4\columnwidth
579 \kern2.6\p@}
580 \renewcommand\right@footnoterule{%
581 \kern-3\p@
582 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
583 \kern2.6\p@}
584 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
585 \renewcommand\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
586 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
587 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
588 \def\@part[#1]#2{%
589 \ifnum \c@secnumdepth >\m@ne
590 \refstepcounter{part}%
591 \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
592 \else
593 \addcontentsline{toc}{part}{#1}%
594 \fi
595 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
596 \interlinepenalty \@M
597 \normalfont
598 \ifnum \c@secnumdepth >\m@ne
599 \Large\bfseries \partname\nobreakspace\thepart
600 \par\nobreak
601 \fi
602 \huge \bfseries #2%
603 \markboth{}{}\par}%
604 \nobreak
605 \vskip 3ex
606 \@afterheading}
607 \ApplyPatchIfPackageLoaded{nameref}{%
608 \bidi@patchcmd\NR@spart\raggedright{%
609 \if@RTL\raggedleft\else\raggedright\fi
610 }{}{\bidi@warningnoline{Oops! patching `string\NR@spart' failed}}}%
611 }{%
612 \bidi@patchcmd\@spart\raggedright{%
613 \if@RTL\raggedleft\else\raggedright\fi
614 }{}{\bidi@warningnoline{Oops! patching `string\@spart' failed}}}%
615 }
616 \renewenvironment{thebibliography}[1]
617 {\section*{\refname}%
618 \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
619 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
620 \bidi@@thebibliography@font@hook%
621 \list{\@biblabel{\@arabic\c@enumiv}}%
622 {\settowidth\labelwidth{\@biblabel{#1}}%

```



```

623         \leftmargin\labelwidth
624         \advance\leftmargin\labelsep
625         \@openbib@code
626         \usecounter{enumiv}%
627         \let\p@enumiv\@empty
628         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
629     \sloppy
630     \clubpenalty4000
631     \@clubpenalty \clubpenalty
632     \widowpenalty4000%
633     \sfcode`. \@m}
634     {\def\@noitemerr
635      {\@latex@warning{Empty `thebibliography' environment}}}%
636     \endlist}
637 \renewenvironment{theindex}
638     {\if@twocolumn
639      \@restonecolfalse
640      \else
641      \@restonecoltrue
642      \fi
643      \columnseprule \z@
644      \columnsep 35\p@
645      \twocolumn[\section*{\indexname}]%
646      \@mkboth{\MakeUppercase\indexname}%
647              {\MakeUppercase\indexname}%
648      \thispagestyle{plain}\parindent\z@
649      \parskip\z@ \@plus .3\p@\relax
650      \let\item\@idxitem}
651     {\if@restonecol\onecolumn\else\clearpage\fi}

```

## 10 File artikel1-xetex-bidi.def

```

652 \ProvidesFile{artikel1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel1 class f
653 \renewenvironment{theindex}{%
654   \if@twocolumn
655     \@restonecolfalse
656   \else
657     \@restonecoltrue
658   \fi
659   \columnseprule \z@
660   \columnsep 35\p@
661   \twocolumn[\section*{\indexname}]%
662   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
663   \thispagestyle{plain}\parindent\z@
664   \parskip\z@ \@plus .3\p@\relax
665   \let\item\@idxitem
666 }{%
667   \if@restonecol\onecolumn\else\clearpage\fi}
668 \renewcommand*\head@style{%
669   \interlinepenalty \@M
670   \hyphenpenalty=\@M \exhyphenpenalty=\@M
671   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
672 \if@titlepage
673   \renewenvironment{abstract}{%

```



```

674     \titlepage
675     \null\vfil
676     \section*{\SectFont\abstractname}
677     \noindent\ignorespaces
678     {\par\vfil\null\endttitlepage}
679 \else
680   \renewenvironment{abstract}{%
681     \if@twocolumn
682       \section*{\abstractname}%
683     \else
684       \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
685       \section*{\small\SectFont\abstractname}%
686       \noindent\ignorespaces
687     \fi}
688     {\if@twocolumn\else\par\egroup\fi}
689 \fi
690 \renewcommand*{@regtocline}[3]{%
691   \ifnum #1>\c@tocdepth
692   \else
693     \vskip\z@\@plus.2\p@
694     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
695     \if@RTL\rightskip\else\leftskip\fi\unitindent
696     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
697     \parfillskip\z@
698     \@tempdima\unitindent
699     \parindent\z@
700     \leavevmode
701     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
702     \hskip 1em \nobreak{\slshape #3}\par
703   }%
704   \fi}
705 \if@oldtoc
706 \renewcommand*{\l@part}[2]{%
707   \ifnum \c@tocdepth >-2\relax
708     \addpenalty\@secpenalty
709     \addvspace{2.25em \@plus\p@}%
710     \begingroup
711       \setlength{\@tempdima}{3em}%
712       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
713       \parfillskip -\@pnumwidth
714       {\leavevmode
715         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
716         \nobreak
717         \if@compatibility
718         \global\@nobreaktrue
719         \everypar{\global\@nobreakfalse\everypar{}}%
720       \fi
721     \endgroup
722   \fi}
723 \else
724   \renewcommand*{\l@part}{%
725     \ifnum \c@tocdepth >-2\relax
726       \addpenalty\@secpenalty
727       \addvspace{2.25em \@plus \p@}%

```



```

728 \regtocline{0}%
729 \fi}
730 \fi
731 \if@oldtoc
732 \renewcommand*{\l@section[2]{%
733 \addpenalty\@secpenalty
734 \addvspace{1.0em \@plus\p@}%
735 \setlength\@tempdima{1.5em}%
736 \begingroup
737 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
738 \parfillskip -\@pnumwidth
739 \leavevmode \bfseries
740 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
741 \hskip -\if@RTL\rightskip\else\leftskip\fi
742 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
743 \endgroup}
744 \else
745 \renewcommand*{\l@section{\@regtocline{1}}
746 \fi
747 \renewcommand*{\thesubsection{\thesection\@SepMark\@arabic\c@section}
748 \renewcommand*{\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
749 \renewcommand*{\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
750 \renewcommand*{\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
751 \renewenvironment{thebibliography}[1]
752 {\section*{\refname}%
753 \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
754 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
755 \bidi@thebibliography@font@hook%
756 \list{\@biblabel{\@arabic\c@enumiv}}%
757 {\settowidth\labelwidth{\@biblabel{#1}}%
758 \leftmargin\labelwidth
759 \advance\leftmargin\labelsep
760 \openbib@code
761 \usecounter{enumiv}%
762 \let\p@enumiv\@empty
763 \renewcommand*{\theenumiv{\@arabic\c@enumiv}}%
764 \sloppy\clubpenalty4000\widowpenalty4000%
765 \sfcode`. \m}
766 {\def\@noitemerr
767 {\@latex@warning{Empty `thebibliography' environment}}}%
768 \endlist}
769 \renewcommand*{\left@footnoterule{%
770 \kern-3\p@
771 \kern.5\baselineskip
772 \hrule\@width\unitindent
773 \kern.4\baselineskip
774 }
775 \renewcommand*{\right@footnoterule{%
776 \kern-3\p@
777 \kern.5\baselineskip
778 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
779 \kern.4\baselineskip}
780 \if@titlepage
781 \renewcommand*{\TitleFont{\rmfamily}

```



```

782 \renewcommand*\maketitle{%
783   \begin{titlepage}%
784     \let\footnotesize\small
785     \let\right@footnoterule\relax
786     \let\left@footnoterule\relax
787     \let\textwidth@footnoterule\relax
788     \let \footnote \thanks
789     \long\def\@makefntext##1{\parindent\z@
790       \def\labelitemi{\textendash}\@revlabeltrue
791       \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
792     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
793     \if@compatibility\setcounter{page}{0}\fi
794     \null\vfil
795     \vskip 60\p@
796     \begin{center}%
797       \TitleFont
798       {\LARGE \def\{\{\penalty -\@M}
799         \if@allcaps
800           \expandafter\uc@nothanks\@title\thanks\relax
801         \else
802           \@title
803         \fi\par}%
804       \vskip 3em%
805       {\large
806         \lineskip .75em \parindent\z@
807         \begin{tabular}[t]{c}%
808           \if@allcaps
809             \expandafter\uc@author\@author\and\relax
810           \else
811             \@author
812           \fi
813         \end{tabular}\par}%
814       \vskip 1.5em%
815       {\large
816         \if@allcaps
817           \uppercase\expandafter{\@date}%
818         \else
819           \@date
820         \fi\par}%
821       \end{center}\par
822       \@thanks
823       \vfil\null
824     \end{titlepage}%
825     \setcounter{footnote}{0}%
826     \global\let\thanks\relax
827     \global\let\maketitle\relax
828     \global\let\@thanks\@empty
829     \global\let\@author\@empty
830     \global\let\@title\@empty
831     \global\let\@date\@empty
832     \global\let\title\relax
833     \global\let\author\relax
834     \global\let\date\relax
835     \global\let\and\relax

```



```

836 }
837 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
838 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
839   \futurelet\@tempa\uc@ax}
840 \def\uc@ax{%
841   \ifx\@tempa\relax
842   \else
843     \ \andname \ \expandafter\uc@authornothanks
844   \fi}
845 \def\uc@tx{\ifx\@tempa\relax
846   \else \expandafter\uc@ty \fi}
847 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
848 \else
849 \renewcommand*\maketitle{\par
850   \begin{group}
851     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
852     \def\@makefnmark{\rlap{%
853       \@textsuperscript{\normalfont\@thefnmark}}}%
854     \long\def\@makefntext{\@xmakefntext{%
855       \@textsuperscript{\normalfont\@thefnmark}}}%
856     \if@twocolumn
857       \ifnum \col@number=\@ne
858         \@maketitle
859       \else
860         \twocolumn[\@maketitle]%
861       \fi
862     \else
863       \newpage
864       \global\@topnum\z@
865       \@maketitle
866     \fi
867     \thispagestyle{plain}\@thanks
868   \end{group}
869   \setcounter{footnote}{0}%
870   \global\let\thanks\relax
871   \global\let\maketitle\relax
872   \global\let\@maketitle\relax
873   \global\let\@thanks\@empty
874   \global\let\@author\@empty
875   \global\let\@title\@empty
876   \global\let\@date\@empty
877   \global\let\title\relax
878   \global\let\author\relax
879   \global\let\date\relax
880   \global\let\and\relax
881 }
882 \def\@maketitle{%
883   \newpage
884   \null
885   \vskip 2em%
886   \begin{center}%
887     \let \footnote \thanks
888     {\LARGE \TitleFont \@title \par}%
889     \vskip 1.5em%

```



```

890     {\large \TitleFont
891       \lineskip .5em%
892       \begin{tabular}[t]{c}%
893         \@author
894       \end{tabular}\par}%
895     \vskip 1em%
896     {\large \TitleFont \@date}%
897   \end{center}%
898   \par
899   \vskip 1.5em}
900 \fi

```

## 11 File artikel2-xetex-bidi.def

```

901 \ProvidesFile{artikel2-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for artikel2 class f
902 \renewenvironment{theindex}{%
903   \if@twocolumn
904     \@restonecolfalse
905   \else
906     \@restonecoltrue
907   \fi
908   \columnseprule \z@
909   \columnsep 35\p@
910   \twocolumn[\section*{\indexname}]{%
911     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}}%
912   \thispagestyle{plain}\parindent\z@
913   \parskip\z@ \@plus .3\p@\relax
914   \let\item\@idxitem
915   }{%
916   \if@restonecol\onecolumn\else\clearpage\fi}
917 \renewcommand*{\regtocline}[3]{%
918   \ifnum #1>\c@tocdepth
919   \else
920     \vskip\z@\@plus.2\p@
921     {\hangindent\z@ \afterindenttrue \interlinepenalty\@M
922       \if@RTL\righskip\else\leftskip\fi\unitindent
923       \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
924       \parfillskip\z@
925       \@tempdima\unitindent
926       \advance\@tempdima by \othermargin
927       \parindent\z@
928       \leavevmode
929       \hbox{}\hspace -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
930       \hspace 1em \nobreak{\slshape #3}\par
931     }%
932   \fi}
933 \if@oldtoc
934 \renewcommand*{\l@section}[2]{%
935   \addpenalty\@secpenalty
936   \addvspace{1.0em \@plus\p@}%
937   \setlength\@tempdima{1.5em}%
938   \begingroup
939   \parindent \z@ \if@RTL\leftskip\else\righskip\fi \@pnumwidth
940   \parfillskip -\@pnumwidth

```



```

941 \leavevmode \bfseries
942 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
943 \hskip -\if@RTL\rightskip\else\leftskip\fi
944 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
945 \endgroup}
946 \else
947 \renewcommand*\l@section{\@regtocline{1}}
948 \fi
949 \if@oldtoc
950 \renewcommand*\l@part[2]{%
951 \ifnum \c@tocdepth >-2\relax
952 \addpenalty\@secpenalty
953 \addvspace{2.25em \@plus\p@}%
954 \begingroup
955 \setlength\@tempdima{3em}%
956 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
957 \parfillskip -\@pnumwidth
958 {\leavevmode
959 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
960 \nobreak
961 \if@compatibility
962 \global\@nobreaktrue
963 \everypar{\global\@nobreakfalse\everypar{}}%
964 \fi
965 \endgroup
966 \fi}
967 \else
968 \renewcommand*\l@part{%
969 \ifnum \c@tocdepth >-2\relax
970 \addpenalty\@secpenalty
971 \addvspace{2.25em \@plus \p@}%
972 \@regtocline{0}%
973 \fi}
974 \fi
975 \renewcommand*\head@style{%
976 \interlinepenalty \@M
977 \hyphenpenalty=\@M \exhyphenpenalty=\@M
978 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
979 \if@titlepage
980 \renewenvironment{abstract}{%
981 \titlepage
982 \null\vfil
983 \section*{\SectFont\abstractname}%
984 \noindent\ignorespaces}
985 {\par\vfil\null\endtitlepage}
986 \else
987 \renewenvironment{abstract}{%
988 \if@twocolumn
989 \section*{\abstractname}%
990 \else
991 \section*{\hskip\unitindent\small\SectFont\abstractname}%
992 \list{}{\setlength\listparindent{\unitindent}%
993 \setlength\parindent {\z@}%
994 \setlength\leftmargin {\unitindent}%

```





```

995             \setlength\rightmargin {\unitindent}%
996             \setlength\parsep      {\z@}}%
997         \item[]%
998     \fi}
999     {\if@twocolumn\else\par\endlist\fi}
1000 \fi
1001 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
1002 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
1003 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1004 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1005 \renewcommand*\left@footnoterule{%
1006     \kern-3\p@
1007     \hrule\@width 3\unitindent
1008     \kern 2.6\p@
1009 }
1010 \renewcommand*\right@footnoterule{%
1011     \kern-3\p@
1012     \hbox to \columnwidth{\hskip \dimexpr\columnwidth-3\unitindent\relax \hrulefill }
1013     \kern 2.6\p@}
1014 \renewenvironment{thebibliography}[1]
1015     {\section*\refname}%
1016     \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1017     \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
1018     \bidi@thebibliography@font@hook%
1019     \list{\@biblabel{\@arabic\c@enumiv}}%
1020         {\settowidth\labelwidth{\@biblabel{#1}}%
1021         \leftmargin\labelwidth
1022         \advance\leftmargin\labelsep
1023         \@openbib@code
1024         \usecounter{enumiv}%
1025         \let\p@enumiv\@empty
1026         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1027     \sloppy\clubpenalty4000\widowpenalty4000%
1028     \sfcode`. \m}
1029     {\def\@noitemerr
1030     {\@latex@warning{Empty `thebibliography' environment}}}%
1031     \endlist}
1032 \if@titlepage
1033 \renewcommand*\TitleFont{\rmfamily}
1034 \renewcommand*\maketitle{%
1035     \begin{titlepage}%
1036         \let\footnotesize\small
1037         \let\right@footnoterule\relax
1038         \let\left@footnoterule\relax
1039         \let\textwidth\footnoterule\relax
1040         \let \footnote \thanks
1041         \long\def\@makefnmark{\parindent\z@
1042             \def\labelitemi{\textendash}\@revlabeltrue
1043             \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1044         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1045         \if@compatibility\setcounter{page}{0}\fi
1046         \null\vfil
1047         \vskip 60\p@
1048         \begin{center}%

```



```

1049 \TitleFont
1050 {\LARGE \def\{\{\penalty -\@M}
1051 \if@allcaps
1052 \expandafter\uc@nothanks\@title\thanks\relax
1053 \else
1054 \@title
1055 \fi\par}%
1056 \vskip 3em%
1057 {\large
1058 \lineskip .75em \parindent\z@
1059 \begin{tabular}[t]{c}%
1060 \if@allcaps
1061 \expandafter\uc@authornothanks\@author\and\relax
1062 \else
1063 \@author
1064 \fi
1065 \end{tabular}\par}%
1066 \vskip 1.5em%
1067 {\large
1068 \if@allcaps
1069 \uppercase\expandafter{\@date}%
1070 \else
1071 \@date
1072 \fi\par}%
1073 \end{center}\par
1074 \@thanks
1075 \vfil\null
1076 \end{titlepage}%
1077 \setcounter{footnote}{0}%
1078 \global\let\thanks\relax
1079 \global\let\maketitle\relax
1080 \global\let\@thanks\@empty
1081 \global\let\@author\@empty
1082 \global\let\@title\@empty
1083 \global\let\@date\@empty
1084 \global\let\title\relax
1085 \global\let\author\relax
1086 \global\let\date\relax
1087 \global\let\and\relax
1088 }
1089 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1090 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1091 \futurelet\@tempa\uc@ax}
1092 \def\uc@ax{%
1093 \ifx\@tempa\relax
1094 \else
1095 \ \ \andname \ \ \expandafter\uc@authornothanks
1096 \fi}
1097 \def\uc@tx{\ifx\@tempa\relax
1098 \else \expandafter\uc@ty \fi}
1099 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1100 \else
1101 \renewcommand*\maketitle{\par
1102 \begin{group

```



```

1103 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1104 \long\def\@makefntext##1{\parindent\z@
1105 \def\labelitemi{\textendash}%
1106 \leavevmode\hb@xt@0.5\unitindent{%
1107 \@textsuperscript{\normalfont\@thefnmark}\hfil}##1}
1108 \if@twocolumn
1109 \ifnum \col@number=\@ne
1110 \maketitle
1111 \else
1112 \twocolumn[\maketitle]%
1113 \fi
1114 \else
1115 \newpage
1116 \global\@topnum\z@
1117 \maketitle
1118 \fi
1119 \thispagestyle{plain}\@thanks
1120 \endgroup
1121 \setcounter{footnote}{0}%
1122 \global\let\thanks\relax
1123 \global\let\maketitle\relax
1124 \global\let\@maketitle\relax
1125 \global\let\@thanks\@empty
1126 \global\let\@author\@empty
1127 \global\let\@title\@empty
1128 \global\let\@date\@empty
1129 \global\let\title\relax
1130 \global\let\author\relax
1131 \global\let\date\relax
1132 \global\let\and\relax
1133 }
1134 \def\@maketitle{%
1135 \newpage
1136 \null
1137 \vskip 2em%
1138 \begin{center}%
1139 \let \footnote \thanks
1140 {\LARGE \TitleFont \@title \par}%
1141 \vskip 1.5em%
1142 {\large \TitleFont
1143 \lineskip .5em%
1144 \begin{tabular}[t]{c}%
1145 \@author
1146 \end{tabular}\par}%
1147 \vskip 1em%
1148 {\large \TitleFont \@date}%
1149 \end{center}%
1150 \par
1151 \vskip 1.5em}
1152 \fi

```

## 12 File artikel3-xetex-bidi.def

```

1153 \ProvidesFile{artikel3-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for artikel3 class f

```



```

1154 \renewenvironment{theindex}{%
1155   \if@twocolumn
1156     \@restonecolfalse
1157   \else
1158     \@restonecoltrue
1159   \fi
1160   \columnseprule \z@
1161   \columnsep 35\p@
1162   \twocolumn[section*{\indexname}]%
1163   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
1164   \thispagestyle{plain}\parindent\z@
1165   \parskip\z@ \@plus .3\p@\relax
1166   \let\item\@idxitem
1167 }{%
1168   \if@restonecol\onecolumn\else\clearpage\fi}
1169 \renewcommand*\head@style{%
1170   \interlinepenalty \@M
1171   \hyphenpenalty=\@M \exhyphenpenalty=\@M
1172   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
1173 \renewcommand*\@regtocline[3]{%
1174   \ifnum #1>\c@tocdepth
1175   \else
1176     \vskip\z@\@plus.2\p@
1177     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
1178     \if@RTL\rightskip\else\leftskip\fi\unitindent
1179     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
1180     \parfillskip\z@
1181     \@tempdima\unitindent
1182     \parindent\z@
1183     \leavevmode
1184     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
1185     \hskip 1em \nobreak{\slshape #3}\par
1186   }%
1187   \fi}
1188 \if@oldtoc
1189 \renewcommand*\l@part[2]{%
1190   \ifnum \c@tocdepth >-2\relax
1191     \addpenalty\@secpenalty
1192     \addvspace{2.25em \@plus\p@}%
1193     \begingroup
1194       \setlength\@tempdima{3em}%
1195       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1196       \parfillskip -\@pnumwidth
1197       {\leavevmode
1198         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
1199         \nobreak
1200         \if@compatibility
1201           \global\@nobreaktrue
1202           \everypar{\global\@nobreakfalse\everypar{}}%
1203       \fi
1204     \endgroup
1205   \fi}
1206 \else
1207   \renewcommand*\l@part{%

```



```

1208 \ifnum \c@tocdepth >-2\relax
1209 \addpenalty\@secpenalty
1210 \addvspace{2.25em \@plus \p@}%
1211 \@regtocline{0}%
1212 \fi}
1213 \fi
1214
1215 \if@oldtoc
1216 \renewcommand*\l@section[2]{%
1217 \addpenalty\@secpenalty
1218 \addvspace{1.0em \@plus \p@}%
1219 \setlength\@tempdima{1.5em}%
1220 \begingroup
1221 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
1222 \parfillskip -\@pnumwidth
1223 \leavevmode \bfseries
1224 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
1225 \hskip -\if@RTL\rightskip\else\leftskip\fi
1226 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
1227 \endgroup}
1228 \else
1229 \renewcommand*\l@section{\@regtocline{1}}
1230 \fi
1231 \if@titlepage
1232 \renewenvironment{abstract}{%
1233 \titlepage
1234 \null\vfil
1235 \section*{\SectFont\abstractname}%
1236 \noindent\ignorespaces}
1237 {\par\vfil\null\endtitlepage}
1238 \else
1239 \renewenvironment{abstract}{%
1240 \if@twocolumn
1241 \section*{\abstractname}%
1242 \else
1243 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
1244 \section*{\small\SectFont\abstractname}%
1245 \noindent\ignorespaces
1246 \fi}
1247 {\if@twocolumn\else\par\egroup\fi}
1248 \fi
1249 \renewcommand*\left@footnoterule{%
1250 \kern-3\p@
1251 \kern.5\baselineskip
1252 \hrule\@width\unitindent
1253 \kern.4\baselineskip
1254 }
1255 \renewcommand*\right@footnoterule{%
1256 \kern-3\p@
1257 \kern.5\baselineskip
1258 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
1259 \kern.4\baselineskip}
1260 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
1261 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}

```



```

1262 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
1263 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
1264 \renewenvironment{thebibliography}[1]
1265     {\section*\refname}%
1266     \mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}%
1267     \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
1268     \bidi@thebibliography@font@hook%
1269     \list{\@biblabel{\@arabic\c@enumiv}}%
1270         {\settowidth\labelwidth{\@biblabel{#1}}%
1271         \leftmargin\labelwidth
1272         \advance\leftmargin\labelsep
1273         \@openbib@code
1274         \usecounter{enumiv}%
1275         \let\p@enumiv\@empty
1276         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
1277     \sloppy\clubpenalty4000\widowpenalty4000%
1278     \sfcode\.\@m}
1279 \def\@noitemerr
1280     {\@latex@warning{Empty `thebibliography' environment}}%
1281 \endlist}
1282 \if@titlepage
1283 \renewcommand*\TitleFont{\rmfamily}
1284 \renewcommand*\maketitle{%
1285 \begin{titlepage}%
1286 \let\footnotesize\small
1287 \let\right@footnoterule\relax
1288 \let\left@footnoterule\relax
1289 \let\textwidth\footnoterule\relax
1290 \let \footnote \thanks
1291 \long\def\@makefntext##1{\parindent\z@
1292 \def\labelitemi{\textendash}\@revlabeltrue
1293 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
1294 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1295 \if@compatibility\setcounter{page}{0}\fi
1296 \null\vfil
1297 \vskip 60\p@
1298 \begin{center}%
1299 \TitleFont
1300 {\LARGE \def\\{\penalty -\@M}
1301 \if@allcaps
1302 \expandafter\uc@nothanks\@title\thanks\relax
1303 \else
1304 \@title
1305 \fi\par}%
1306 \vskip 3em%
1307 {\large
1308 \lineskip .75em \parindent\z@
1309 \begin{tabular}[t]{c}%
1310 \if@allcaps
1311 \expandafter\uc@authornothanks\author\and\relax
1312 \else
1313 \author
1314 \fi
1315 \end{tabular}\par}%

```



```

1316     \vskip 1.5em%
1317     {\large
1318     \if@allcaps
1319     \uppercase\expandafter{\@date}%
1320     \else
1321     \@date
1322     \fi\par}%
1323     \end{center}\par
1324     \@thanks
1325     \vfil\null
1326 \end{titlepage}%
1327 \setcounter{footnote}{0}%
1328 \global\let\thanks\relax
1329 \global\let\maketitle\relax
1330 \global\let\@thanks\@empty
1331 \global\let\@author\@empty
1332 \global\let\@title\@empty
1333 \global\let\@date\@empty
1334 \global\let\title\relax
1335 \global\let\author\relax
1336 \global\let\date\relax
1337 \global\let\and\relax
1338 }
1339 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
1340 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
1341     \futurelet\@tempa\uc@ax}
1342 \def\uc@ax{%
1343     \ifx\@tempa\relax
1344     \else
1345     \ \andname \ \ \expandafter\uc@authornothanks
1346     \fi}
1347 \def\uc@tx{\ifx\@tempa\relax
1348     \else \expandafter\uc@ty \fi}
1349 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
1350 \else
1351 \renewcommand*\maketitle{\par
1352     \begingroup
1353     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
1354     \def\@makefnmark{\rlap{%
1355         \@textsuperscript{\normalfont\@thefnmark}}}%
1356     \long\def\@makefntext{\@xmakefntext{%
1357         \@textsuperscript{\normalfont\@thefnmark}}}%
1358     \if@twocolumn
1359     \ifnum \col@number=\@ne
1360     \@maketitle
1361     \else
1362     \twocolumn[\@maketitle]%
1363     \fi
1364     \else
1365     \newpage
1366     \global\@topnum\z@
1367     \@maketitle
1368     \fi
1369     \thispagestyle{plain}\@thanks

```



```

1370 \endgroup
1371 \setcounter{footnote}{0}%
1372 \global\let\thanks\relax
1373 \global\let\maketitle\relax
1374 \global\let\@maketitle\relax
1375 \global\let\@thanks\@empty
1376 \global\let\@author\@empty
1377 \global\let\@title\@empty
1378 \global\let\@date\@empty
1379 \global\let\title\relax
1380 \global\let\author\relax
1381 \global\let\date\relax
1382 \global\let\and\relax
1383 }
1384 \def\@maketitle{%
1385   \newpage
1386   \null
1387   \vskip 2em%
1388   \if@titlecentered
1389     \begin{center}%
1390       \let \footnote \thanks
1391       {\LARGE \TitleFont \@title \par}%
1392       \vskip 1.5em%
1393       {\large \TitleFont
1394         \lineskip .5em%
1395         \begin{tabular}[t]{c}%
1396           \@author
1397         \end{tabular}\par}%
1398       \vskip 1em%
1399       {\large \TitleFont \@date}%
1400     \end{center}%
1401   \else
1402     {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
1403     {\large \TitleFont \lineskip .5em \tabcolsep\z@
1404       \def\and{%% \begin{tabular} has already started
1405         \end{tabular}\hskip 1em plus .17fil
1406         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabu
1407         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}%
1408       \vskip 1em {\large \TitleFont \@date}
1409     \fi
1410     \par
1411     \vskip 1.5em}
1412 \fi

```

### 13 File arydshln-xetex-bidi.def

```

1413 \ProvidesFile{arydshln-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for arydshln package]
1414 \def\endarray{\adl@endarray \egroup \adl@arrayrestore \if@RTLtab\egroup\endR\egroup\fi\egroup}
1415 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
1416 \expandafter\let\csname endtabular*\endcsname\endtabular
1417 \let\adl@array\@array
1418 \def\@array{\adl@everyvbox\everyvbox
1419   \everyvbox{\adl@arrayinit \the\adl@everyvbox \everyvbox\adl@everyvbox}%
1420   \ifadl@inactive \adl@inactivate \else \adl@activate \fi

```





```

1421         \let\adl@noalign\noalign
1422         \adl@array}
1423 \ifadl@usingarypkg
1424 \def\@testpach{\@chclass
1425 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
1426 \ifnum \@lastchclass=7 5 \else
1427 \ifnum \@lastchclass=8 \tw@ \else
1428 \ifnum \@lastchclass=9 \thr@@
1429 \else \z@
1430 \ifnum \@lastchclass = 10 \else
1431 \edef\@nextchar{\expandafter\string\@nextchar}%
1432 \@chnum
1433 \if\@nextchar c\z@ \else
1434 \if\@nextchar \if@RTLtab r\else l\fi\@ne \else
1435 \if\@nextchar \if@RTLtab l\else r\fi\tw@ \else
1436 \z@ \@chclass
1437 \if\@nextchar |\@ne \let\@arrayrule\adl@arrayrule \else
1438 \if\@nextchar : \@ne \let\@arrayrule\adl@arraydashrule \else
1439 \if\@nextchar ; \@ne \let\@arrayrule\adl@argarraydashrule \else
1440 \if\@nextchar !6 \else
1441 \if\@nextchar @7 \else
1442 \if\@nextchar <8 \else
1443 \if\@nextchar >9 \else
1444 10
1445 \@chnum
1446 \if\@nextchar m\thr@@\else
1447 \if\@nextchar p4 \else
1448 \if\@nextchar b5 \else
1449 \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi
1450 \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1451
1452 \def\@classz{\@classx
1453 \@tempcnta \count@
1454 \prepnext@tok
1455 \@addtopreamble{\ifcase \@chnum
1456 \hfil
1457 \adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1458 \hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\hfil \or
1459 \hfil\hskip1sp\adl@putlrc{\d@llarbegin \insert@column \d@llarend}\or
1460 \setbox\adl@box\hbox \adl@startmbox{\@nextchar}\insert@column
1461 \adl@endmbox\or
1462 \setbox\adl@box\vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
1463 \setbox\adl@box\vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1464 \fi}\prepnext@tok}
1465 \def\adl@class@start{4}
1466 \def\adl@class@iiiorvii{7}
1467
1468 \else
1469 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4\relax \else
1470 \ifnum \@lastchclass=\thr@@ 5\relax \else
1471 \z@ \if #1c\@chnum \z@ \else
1472 \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
1473 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
1474 \@chclass

```



```

1475         \if #1|\@ne \let\@arrayrule\adl@arrayrule \else
1476         \if #1:\@ne \let\@arrayrule\adl@arraydashrule \else
1477         \if #1;\@ne \let\@arrayrule\adl@argarraydashrule \else
1478         \if #1@tw@ \else
1479         \if #1p\thr@@ \else \z@ \@preamerr 0\fi
1480     \fi \fi \fi \fi \fi \fi \fi \fi \fi}
1481
1482 \def\@arrayclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1483     \or \or \@addamp \or
1484     \@acolampacol \or \@firstampfalse \@acol \fi
1485     \edef\@preamble{\@preamble
1486         \ifcase \@chnum
1487             \hfil\adl@putlrc{\$relax\@sharp$}\hfil
1488             \or \adl@putlrc{\$relax\@sharp$}\hfil
1489             \or \hfil\adl@putlrc{\$relax\@sharp$}\fi}}
1490 \def\@tabclassz{\ifcase \@lastchclass \@acolampacol \or \@ampacol \or
1491     \or \or \@addamp \or
1492     \@acolampacol \or \@firstampfalse \@acol \fi
1493     \edef\@preamble{\@preamble
1494         \ifcase \@chnum
1495             \hfil\adl@putlrc{\@sharp\unskip}\hfil
1496             \or \adl@putlrc{\@sharp\unskip}\hfil
1497             \or \hfil\hskip\z@ \adl@putlrc{\@sharp\unskip}\fi}}
1498 \def\adl@class@start{6}
1499 \def\adl@class@iiiorvii{3}
1500 \fi
1501 \ApplyPatchCodeToPackage{colortbl}{%
1502 \def\adl@inactivate{\adl@org@inactivate \let\CT@setup\adl@CT@setup}
1503 \def\adl@activate{\adl@org@activate \let\CT@setup\adl@act@CT@setup
1504     \let\@endpbox\adl@org@endpbox}
1505 \let\adl@CT@setup\CT@setup
1506 \def\CT@setup{\adl@CT@setup
1507     \@tempdima\ht\z@ \advance\@tempdima\minrowclearance
1508     \ifdim\adl@height<\@tempdima \global\adl@height\@tempdima \fi
1509     \ifdim\adl@depth<\dp\z@ \global\adl@depth\dp\z@\fi}
1510 \let\adl@act@CT@setup\CT@setup
1511 \def\@classz{\@classx
1512     \@tempcnta\count@ \prepnext@tok
1513     \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
1514     \expandafter\adl@extract@arc\the\toks\@tempcnta\arrayrulecolor!\@nil
1515     \expandafter\adl@extract@drsc
1516         \the\toks\@tempcnta\doublerulesepcolor!\@nil
1517     \expandafter\adl@extract@dgc\the\toks\@tempcnta\dashgapcolor!\@nil
1518     \@addtopreamble{\if@RTL\beginL\fi%
1519         \setbox\z@\hbox\bgroup\bgroup\if@RTL\beginR\fi
1520         \ifcase \@chnum
1521             \hskip\stretch{.5}\kern\z@
1522             \dollarbegin
1523             \insert@column
1524             \dollarend\hskip\stretch{.5}%
1525         \or \dollarbegin \insert@column \dollarend \hfill
1526         \or \hfill \kern\z@ \dollarbegin \insert@column \dollarend
1527         \or \$\vcenter
1528         \@startpbox{\@nextchar}\insert@column \@endpbox $%

```



```

1529         \or \vtop \@startpbox{\@nextchar}\insert@column \@endpbox
1530         \or \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
1531         \fi
1532         \if@RTL\endR\fi\egroup\egroup
1533         \beginngroup
1534             \CT@setup
1535             \CT@column@color
1536             \CT@row@color
1537             \CT@cell@color
1538             \CT@do@color
1539         \endgroup
1540         \@tempdima\ht\z@
1541         \advance\@tempdima\minrowclearance
1542         \vrule\@height\@tempdima\@width\z@
1543         \unhbox\z@\if@RTL\endL\fi}%
1544     \prepnext@tok}
1545 \let\adl@act@classz\@classz
1546 \let\adl@org@classz\@classz
1547 }

```

## 14 File beamer-xetex-bidi.def

```

1548 \ProvidesFile{beamer-xetex-bidi.def}[2022/06/07 v0.3 bidi adaptations for beamer class for Xe
1549 \AtBeginDocument{%
1550     \if@RTLmain
1551         \raggedleft
1552     \else
1553         \raggedright
1554     \fi
1555 }
1556
1557 \renewcommand*{\bidi@beamer@ragged}{%
1558     \if@RTL
1559         \raggedleft
1560     \else
1561         \raggedright
1562     \fi
1563 }
1564
1565

```

## 15 File beamerbaseauxtemplates-xetex-bidi.def

```

1566 \ProvidesFile{beamerbaseauxtemplates-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for be
1567 \bidi@csundef{beamer@tmpop@subsection in toc@sections numbered}
1568
1569 \bidi@csundef{beamer@tmpop@subsubsection in toc@sections numbered}
1570
1571 \bidi@csundef{beamer@tmpop@section in toc@subsections numbered}
1572
1573 \bidi@csundef{beamer@tmpop@subsection in toc@subsections numbered}
1574
1575 \bidi@csundef{beamer@tmpop@subsubsection in toc@subsections numbered}
1576

```



```

1577 \defbeamertemplate{subsection in toc}{sections numbered}
1578 {\leavevmode\bidibeamer@leftskip=2.5em\inserttocsubsection\par}
1579
1580 \defbeamertemplate{subsubsection in toc}{sections numbered}
1581 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidibeamer@leftskip=3.5em\usebeamerfont{subsubsection in toc}%
1582 \inserttocsubsubsection\par}
1583
1584 \defbeamertemplate{section in toc}{subsections numbered}
1585 {\leavevmode\bidibeamer@leftskip=2em\inserttocsection\par}
1586
1587 \defbeamertemplate{subsection in toc}{subsections numbered}
1588 {\leavevmode\bidibeamer@leftskip=2em\rlap{\hskip-2em\inserttocsectionnumber.\inserttocsubsection in toc}%
1589 \inserttocsubsubsection\par}
1590 \defbeamertemplate{subsubsection in toc}{subsections numbered}
1591 {\leavevmode\normalsize\usebeamerfont{subsection in
1592 toc}\bidibeamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1593 \inserttocsubsubsection\par}
1594
1595 \bidi@csundef{beamer@@tmpop@section in toc@circle}
1596
1597 \bidi@csundef{beamer@@tmpop@subsection in toc@circle}
1598
1599 \bidi@csundef{beamer@@tmpop@subsubsection in toc@circle}
1600
1601 \defbeamertemplate{section in toc}{circle}
1602 {\leavevmode\bidibeamer@leftskip=2ex%
1603 \llap{%
1604 \usebeamerfont*{section number projected}%
1605 \usebeamerfont{section number projected}%
1606 \begin{pgfpicture}{-1ex}{0ex}{1ex}{2ex}
1607 \color{bg}
1608 \pgfpathcircle{\pgfpoint{0pt}{.75ex}}{1.2ex}
1609 \pgfusepath{fill}
1610 \pgftext[base]{\color{fg}\inserttocsectionnumber}
1611 \end{pgfpicture}\kern1.25ex%
1612 }%
1613 \inserttocsection\par}
1614
1615 \defbeamertemplate{subsection in toc}{circle}
1616 {\leavevmode\bidibeamer@leftskip=2em\inserttocsubsection\par}
1617
1618 \defbeamertemplate{subsubsection in toc}{circle}
1619 {\leavevmode\normalsize\usebeamerfont{subsection in
1620 toc}\bidibeamer@leftskip=3em\usebeamerfont{subsubsection in toc}%
1621 \inserttocsubsubsection\par}
1622
1623 \bidi@csundef{beamer@@tmpop@section in toc@square}
1624
1625 \bidi@csundef{beamer@@tmpop@subsection in toc@square}
1626
1627 \bidi@csundef{beamer@@tmpop@subsubsection in toc@square}
1628
1629 \bidi@csundef{beamer@@tmpop@enumerate item@square}
1630

```



```

1631 \bidi@csundef{beamer@@tmpop@enumerate subitem@square}
1632
1633 \bidi@csundef{beamer@@tmpop@enumerate subsubitem@square}
1634
1635 \bidi@csundef{beamer@@tmpop@enumerate mini template@square}
1636
1637 \defbeamertemplate{section in toc}{square}
1638 {\leavevmode\bidi@beamer@leftskip=3ex%
1639 \llap{%
1640 \usebeamerfont*{section number projected}%
1641 \usebeamercolor[bg]{section number projected}%
1642 \if@RTL
1643 \else
1644 \vrule width2.25ex height1.85ex depth.4ex%
1645 \hskip-2.25ex%
1646 \fi
1647 \hbox to2.25ex{{\hfil\color{fg}\inserttocsectionnumber\hfil}}}%
1648 \if@RTL
1649 \hskip-2.25ex%
1650 \vrule width2.25ex height1.85ex depth.4ex%
1651 \fi
1652 }\kern1.25ex}%
1653 \inserttocsection\par}
1654
1655 \defbeamertemplate{subsection in toc}{square}
1656 {\leavevmode\bidi@beamer@leftskip=5ex\llap{%
1657 \usebeamercolor[bg]{subsection number projected}%
1658 \vrule width1ex height1ex\kern1ex}}\inserttocsubsection\par}
1659
1660 \defbeamertemplate{subsubsection in toc}{square}
1661 {\leavevmode\normalsize\usebeamerfont{subsection in
1662 toc}\bidi@beamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1663 \llap{%
1664 \usebeamercolor[bg]{subsubsection number projected}%
1665 \vrule width0.75ex height0.75ex\kern1ex}}\inserttocsubsubsection\par}
1666
1667 \defbeamertemplate{enumerate item}{square}
1668 {
1669 \hbox{%
1670 \usebeamerfont*{item projected}%
1671 \usebeamercolor[bg]{item projected}%
1672 \if@RTL
1673 \else
1674 \vrule width2.25ex height1.85ex depth.4ex%
1675 \hskip-2.25ex%
1676 \fi
1677 \hbox to2.25ex{%
1678 \hfil%
1679 \color{fg}\insertenumlabel%
1680 \hfil}}}%
1681 \if@RTL
1682 \hskip-2.25ex%
1683 \vrule width2.25ex height1.85ex depth.4ex%
1684 \fi

```



```

1685 }}%
1686 }
1687 [action]
1688 {\setbeamerfont{item projected}{size=\scriptsize}}
1689
1690 \defbeamertemplate{enumerate subitem}{square}
1691 {
1692   \hbox{%
1693     \usebeamerfont*{subitem projected}%
1694     \usebeamercolor[bg]{subitem projected}%
1695     \if@RTL
1696     \else
1697       \vrule width2.25ex height1.85ex depth.4ex%
1698       \hskip-2.25ex%
1699     \fi
1700     \hbox to2.25ex{%
1701       \hfil%
1702       \color{fg}\insertsubenumlabel%
1703       \hfil}%
1704     \if@RTL
1705       \hskip-2.25ex%
1706       \vrule width2.25ex height1.85ex depth.4ex%
1707     \fi
1708   }}%
1709 }
1710
1711 \defbeamertemplate{enumerate subsubitem}{square}
1712 {
1713   \hbox{%
1714     \usebeamerfont*{subitem projected}%
1715     \usebeamercolor[bg]{subsubitem projected}%
1716     \if@RTL
1717     \else
1718       \vrule width2.25ex height1.85ex depth.4ex%
1719       \hskip-2.25ex%
1720     \fi
1721     \hbox to2.25ex{%
1722       \hfil%
1723       \color{fg}\insertsubsubenumlabel%
1724       \hfil}%
1725     \if@RTL
1726       \hskip-2.25ex%
1727       \vrule width2.25ex height1.85ex depth.4ex%
1728     \fi
1729   }}%
1730 }
1731
1732 \defbeamertemplate{enumerate mini template}{square}
1733 {
1734   \hbox{%
1735     \usebeamerfont*{\beameritemnestingprefix item projected}%
1736     \usebeamercolor[bg]{\beameritemnestingprefix item projected}%
1737     \if@RTL
1738     \else

```



```

1739     \vrule width2.25ex height1.85ex depth.4ex%
1740     \hskip-2.25ex%
1741     \fi
1742     \hbox to2.25ex{%
1743     \hfil%
1744     \color{fg}\insertenumlabel%
1745     \hfil}}%
1746     \if@RTL
1747     \hskip-2.25ex%
1748     \vrule width2.25ex height1.85ex depth.4ex%
1749     \fi
1750   }}%
1751 }
1752
1753 \bidi@csundef{beamer@@tmpop@section in toc@ball unnumbered}
1754
1755 \bidi@csundef{beamer@@tmpop@subsection in toc@ball unnumbered}
1756
1757 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball unnumbered}
1758
1759 \defbeamertemplate{section in toc}{ball unnumbered}
1760 {\leavevmode\bidi@beamer@leftskip=2.25ex%
1761   \llap{%
1762     \raise0.1ex\beamer@usesphere{section number projected}{bigsphere}\kern1.25ex}%
1763   \inserttocsection\par}
1764
1765 \defbeamertemplate{subsection in toc}{ball unnumbered}
1766 {\leavevmode\bidi@beamer@leftskip=5.1ex\llap{%
1767   \raise0.2ex\beamer@usesphere{subsection number projected}{smallsphere}\kern1ex}\inserttocsection\par}
1768
1769 \defbeamertemplate{subsubsection in toc}{ball unnumbered}
1770 {\leavevmode\normalsize\usebeamerfont{subsection in
1771   toc}\bidi@beamer@leftskip=8.2ex\usebeamerfont{subsubsection in toc}%
1772   \llap{%
1773     \beamer@usesphere{subsubsection number projected}{smallsphere}\kern0.75ex}\inserttocsection\par}
1774
1775 \bidi@csundef{beamer@@tmpop@section in toc@ball}
1776
1777 \bidi@csundef{beamer@@tmpop@subsection in toc@ball}
1778
1779 \bidi@csundef{beamer@@tmpop@subsubsection in toc@ball}
1780
1781 \defbeamertemplate{section in toc}{ball}
1782 {\leavevmode\bidi@beamer@leftskip=2.75ex%
1783   \llap{%
1784     \normalsize%
1785     \begin{pgfpicture}{-1ex}{-0.7ex}{1ex}{1ex}
1786       \pgftext{\beamer@usesphere{section number projected}{tocsphere}}
1787       \pgftext{%
1788         \usebeamerfont*{section number projected}%
1789         \usebeamerfont*{section number projected}%
1790         \color{fg!90!bg}%
1791         \inserttocsectionnumber}
1792     \end{pgfpicture}%

```



```

1793     \kern1.25ex}%
1794   \inserttocsection\par
1795 }
1796 [action]
1797 {\setbeamerfont{section number projected}{size=\scriptsize}}
1798
1799 \defbeamertemplate{subsection in toc}{ball}
1800 {\leavevmode\bidibeamer@leftskip=5ex%
1801   \llap{\raise0.1ex\beamer@usesphere{subsection number projected}{bigsphere}\kern1ex}%
1802   \inserttocsubsection\par%
1803 }
1804
1805 \defbeamertemplate{subsubsection in toc}{ball}
1806 {\leavevmode\normalsize\usebeamerfont{subsection in
1807   toc}\bidibeamer@leftskip=7ex\usebeamerfont{subsubsection in toc}%
1808   \llap{\beamer@usesphere{subsubsection number projected}{bigsphere}\kern0.75ex}%
1809   \inserttocsubsubsection\par%
1810 }
1811
1812 \bidicsundef{beamer@@tmpop@block begin@rounded}
1813
1814 \bidicsundef{beamer@@tmpop@block alerted begin@rounded}
1815
1816 \bidicsundef{beamer@@tmpop@block example begin@rounded}
1817
1818 \defbeamertemplate{block begin}{rounded}[1][shadow=false]
1819 {%
1820   \par\vskip\medskipamount%
1821   \begin{beamerboxesrounded}[upper=block title,lower=block body,#1]%
1822     {\raggedright\usebeamerfont*{block title}\insertblocktitle}%
1823     \bidibeamer@ragged%
1824     \usebeamerfont{block body}%
1825   }%
1826
1827 \defbeamertemplate{block alerted begin}{rounded}[1][shadow=false]
1828 {%
1829   \par\vskip\medskipamount%
1830   \begin{beamerboxesrounded}[upper=block title alerted,lower=block body alerted,#1]%
1831     {\raggedright\usebeamerfont*{block title alerted}\insertblocktitle}%
1832     \bidibeamer@ragged%
1833     \usebeamerfont{block body alerted}%
1834   }%
1835
1836 \defbeamertemplate{block example begin}{rounded}[1][shadow=false]
1837 {%
1838   \par\vskip\medskipamount%
1839   \begin{beamerboxesrounded}[upper=block title example,lower=block body example,#1]%
1840     {\raggedright\usebeamerfont*{block title example}\insertblocktitle}%
1841     \bidibeamer@ragged%
1842     \usebeamerfont{block body example}%
1843   }%
1844
1845 \bidicsundef{beamer@@tmpop@caption@numbered}
1846

```





```

1847 \defbeamerteremplate{caption}{numbered}
1848 {%
1849   \leavevmode
1850   \bidi@beamer@ragged
1851   {%
1852     \usebeamercolor[fg]{caption name}%
1853     \usebeamerfont*{caption name}%
1854     \insertcaptionname~\insertcaptionnumber
1855     \usebeamerteremplate{caption label separator}%
1856   }%
1857   \insertcaption\par
1858 }
1859
1860 \bidi@csundef{beamer@@tmpop@caption@caption name own line}
1861
1862 \defbeamerteremplate{caption}{caption name own line}
1863 {%
1864   \begin{minipage}{\textwidth}
1865     \leavevmode
1866     \bidi@beamer@ragged
1867     {%
1868       \usebeamercolor[fg]{caption name}%
1869       \usebeamerfont*{caption name}%
1870       \insertcaptionname%
1871     }\\
1872     \insertcaption
1873   \end{minipage}
1874 }
1875
1876 \ApplyPatchCodeToPackage{caption}{%
1877   \DeclareCaptionFont{beamer@font}{%
1878     \usebeamerfont*{caption}%
1879   }%
1880 }
1881 \SetCaptionDefault{font}{beamer@font}
1882 \DeclareCaptionJustification{bidi@beamer@ragged}{\bidi@beamer@ragged}
1883 \SetCaptionDefault{justification}{bidi@beamer@ragged}
1884 }
1885

```

## 16 File beamerbaseboxes-xetex-bidi.def

```

1886 \ProvidesFile{beamerbaseboxes-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for beamerbas
1887 \renewcommand\beamerboxesrounded[2] []{%
1888   \global\let\beamer@firstlineitemizeunskip=\relax%
1889   \vbox\bgroup%
1890   \setkeys{beamerboxes}{upper=block title,lower=block body,width=\textwidth,shadow=false}%
1891   \setkeys{beamerboxes}{#1}%
1892   {%
1893     \usebeamercolor{\bmb@lower}%
1894     \globalcolorstrue%
1895     \colorlet{lower.bg}{bg}%
1896   }%
1897   {%

```



```

1898 \usebeamercolor{\bmb@upper}%
1899 \globalcolorstrue%
1900 \colorlet{upper.bg}{bg}%
1901 }%
1902 %
1903 % Typeset head
1904 %
1905 \vskip4bp
1906 \setbox\bmb@box=\hbox{%
1907   \begin{minipage}[b]{\bmb@width}%
1908     \usebeamercolor{fg}{\bmb@upper}%
1909     #2%
1910   \end{minipage}}%
1911 \ifdim\wd\bmb@box=0pt%
1912   \setbox\bmb@box=\hbox{%
1913     \ht\bmb@box=1.5pt%
1914     \bmb@prevheight=-4.5pt%
1915   \else%
1916     \wd\bmb@box=\bmb@width%
1917     \bmb@temp=\dp\bmb@box%
1918     \ifdim\bmb@temp<1.5pt%
1919       \bmb@temp=1.5pt%
1920     \fi%
1921     \setbox\bmb@box=\hbox{\raise\bmb@temp\hbox{\box\bmb@box}}%
1922     \dp\bmb@box=0pt%
1923     \bmb@prevheight=\ht\bmb@box%
1924   \fi%
1925   \bmb@temp=\bmb@width%
1926   \bmb@dima=\bmb@temp\advance\bmb@dima by2.2bp%
1927   \bmb@dimb=\bmb@temp\advance\bmb@dimb by4bp%
1928   \hbox{%
1929     \begin{pgfpicture}{0bp}{+-\ht\bmb@box}{0bp}{+-\ht\bmb@box}
1930       \ifdim\wd\bmb@box=0pt%
1931         \color{lower.bg}%
1932       \else%
1933         \color{upper.bg}%
1934       \fi%
1935       \pgfpathmoveto{-4bp}{-1bp}
1936       \pgfpathcurveto{-4bp}{1.2bp}{-2.2bp}{3bp}{0bp}{3bp}
1937       \pgfpathlineto{\pgfpoint{\bmb@temp}{3bp}}
1938       \pgfpathcurveto%
1939       {\pgfpoint{\bmb@dima}{3bp}}%
1940       {\pgfpoint{\bmb@dimb}{1.2bp}}%
1941       {\pgfpoint{\bmb@dimb}{-1bp}}%
1942       \bmb@dima=-\ht\bmb@box%
1943       \advance\bmb@dima by-2pt%
1944       \pgfpathlineto{\pgfpoint{\bmb@dimb}{\bmb@dima}}
1945       \pgfpathlineto{\pgfpoint{-4bp}{\bmb@dima}}
1946       \pgfusepath{fill}
1947     \end{pgfpicture}%
1948     \copy\bmb@box%
1949   }%
1950 \nointerlineskip%
1951 \vskip-1pt%

```



```

1952 \ifdim\wd\bmb@box=0pt%
1953 \else%
1954 \hbox{%
1955   \begin{pgfpicture}{0pt}{0pt}{\bmb@width}{6pt}
1956     \bmb@dima=\bmb@width%
1957     \advance\bmb@dima by8bp%
1958     \pgfpathrectangle{\pgfpoint{-4bp}{-1bp}}{\pgfpoint{\bmb@dima}{8bp}}
1959     \pgfusepath{clip}
1960     {\pgftransformshift{\pgfpoint{-4bp}{0bp}}\pgftext[left,base]{\pgfuses shading\bmb@transi
1961   \end{pgfpicture}%
1962 }%
1963 \nointerlineskip%
1964 \vskip-0.5pt%
1965 \fi%
1966 \setbox\bmb@colorbox=\hbox{\pgfpicturetrue\pgfsetcolor{lower.bg}}}%
1967 \setbox\bmb@box=\hbox\bgroup\begin{minipage}[b]{\bmb@width}%
1968   \vskip2pt%
1969   \usebeamercolor[fg]{\bmb@lower}%
1970   \colorlet{beamerstructure}{upper.bg}%
1971   \colorlet{structure}{upper.bg}%
1972   %\color{.}%
1973   \@bidi@list@minipage@parboxfalse
1974 }
1975
1976 \bidi@patchcmd{\endbeamerboxesrounded}{\begingroup}{%
1977   \begingroup
1978   \@RTLfalse
1979 }{}{}
1980
1981

```

## 17 File beamerbasecolor-xetex-bidi.def

```

1982 \ProvidesFile{beamerbasecolor-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for beamerbas
1983 \renewenvironment{beamercolorbox}[2][]{%
1984   \def\beamer@vmode{\leavevmode}%
1985   \setkeys{beamercolbox}{wd=\textwidth,ht={},dp={},%
1986     leftskip=0pt,rightskip=0pt plus1fil,%
1987     sep=0pt,colsep=0pt,colsep*=0pt,%
1988     shadow=false,rounded=false,ignorebg=false}%
1989   \if@RTL
1990     \setkeys{beamercolbox}{rightskip=0pt,leftskip=0pt plus1fil}%
1991   \else
1992     \setkeys{beamercolbox}{leftskip=0pt,rightskip=0pt plus1fil}%
1993   \fi
1994   \setkeys{beamercolbox}{#1}%
1995   \ifbeamercoloreempty[bg]{#2}{\@tempwafalse}{\@tempwattrue}%
1996   \ifbeamer@colbox@ignorebg\@tempwafalse\fi%
1997   \def\beamer@colbox@color{#2}%
1998   \setbox\beamer@tempbox=\hbox\bgroup\color@begingroup
1999     \ifbeamer@colbox@ignorebg%
2000       \colorlet{beamer@temp@color}{bg}%
2001       \usebeamercolor[fg]{#2}%
2002       \colorlet{bg}{beamer@temp@color}%

```



```

2003 \else%
2004 \usebeamercolor[fg]{#2}%
2005 \fi%
2006 \beginL
2007 \vbox\bgroup%
2008 \hsize=\beamer@colbox@wd%
2009 \@arrayparboxrestore%
2010 \leftskip=\beamer@colbox@ls%
2011 \ifdim\beamer@colbox@sep>\z@advance\leftskip\beamer@colbox@sep\fi%
2012 \rightskip=\beamer@colbox@rs%
2013 \ifdim\beamer@colbox@sep>\z@advance\rightskip\beamer@colbox@sep\fi%
2014 \if@tempswa\ifdim\beamer@colbox@colsep>\z@%
2015 \advance\leftskip by\beamer@colbox@colsep%
2016 \advance\rightskip by\beamer@colbox@colsep%
2017 \vskip\beamer@colbox@colsep%
2018 \fi%
2019 \ifdim\beamer@colbox@colseps>\z@vskip\beamer@colbox@colseps\fi%
2020 \fi%
2021 \ifdim\beamer@colbox@sep>\z@vskip\beamer@colbox@sep\fi%
2022 \beamer@vmode\ignorespaces}{%
2023 \ifdim\beamer@colbox@sep>\z@vskip\beamer@colbox@sep\fi%
2024 \if@tempswa
2025 \ifdim\beamer@colbox@colsep>\z@vskip\beamer@colbox@colsep\fi%
2026 \ifdim\beamer@colbox@colseps>\z@vskip\beamer@colbox@colseps\fi%
2027 \fi%
2028 \egroup\endL\color@endgroup\egroup%
2029 \wd\beamer@tempbox=\beamer@colbox@wd%
2030 \ifx\beamer@colbox@ht\@empty\else\ht\beamer@tempbox=\beamer@colbox@ht\fi%
2031 \ifx\beamer@colbox@dp\@empty\else\dp\beamer@tempbox=\beamer@colbox@dp\fi%
2032 \ifbeamer@colbox@rounded%
2033 \if@tempswa%
2034 \begin{beamerboxesrounded}[%
2035 shadow=\beamer@colbox@shadow,%
2036 lower=\beamer@colbox@color,%
2037 upper=normal text,%
2038 width=\beamer@colbox@wd]{}%
2039 \box\beamer@tempbox%
2040 \end{beamerboxesrounded}%
2041 \else%
2042 \ifdim\wd\beamer@tempbox>\textwidth%
2043 \setbox\beamer@tempbox=\hbox to\textwidth{\hss\box\beamer@tempbox\hss}%
2044 \fi%
2045 \box\beamer@tempbox%
2046 \fi%
2047 \else%
2048 \if@tempswa\setbox\beamer@tempbox=\hbox{%
2049 \usebeamercolor{\beamer@colbox@color}%
2050 \hskip-\beamer@colbox@colseps%
2051 \fboxsep=\z@\colorbox{bg}{%
2052 \hskip\beamer@colbox@colseps%
2053 \box\beamer@tempbox%
2054 \hskip\beamer@colbox@colseps%
2055 }%
2056 \hskip-\beamer@colbox@colseps%

```



```

2057     }\fi%
2058     \ifdim\wd\beamer@tempbox>\textwidth%
2059         \setbox\beamer@tempbox=\hbox to\textwidth{\hskip0pt minus\beamer@leftmargin\relax\box%
2060         \fi%
2061         \box\beamer@tempbox}%
2062     \fi%
2063 }
2064
2065

```

## 18 File beamerbasecompatibility-xetex-bidi.def

```

2066 \ProvidesFile{beamerbasecompatibility-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for b
2067 \def\insertvrule#1#2{\hbox{{\color{#2}\hskip-\Gm@lmargin\vrule width \paperwidth height #1\h
2068
2069

```

## 19 File beamerbaseframecomponents-xetex-bidi.def

```

2070 \ProvidesFile{beamerbaseframecomponents-xetex-bidi.def}[2024/12/28 v0.7 bidi adaptations for
2071 \renewcommand{\setbeamersize}[1]{%
2072     \beamer@dogeometryfalse%
2073     \setkeys{beamer@margin}{#1}%
2074     \ifbeamer@dogeometry%
2075         % Reset left margin now
2076         \beamer@tempdim=\beamer@leftmargin%
2077         \advance\beamer@tempdim by\beamer@leftsidebar%
2078         \if@RTLmain
2079             \geometry{right=\the\beamer@tempdim}%
2080         \else
2081             \geometry{left=\the\beamer@tempdim}%
2082         \fi
2083         % Reset right margin now
2084         \beamer@tempdim=\beamer@rightmargin%
2085         \advance\beamer@tempdim by\beamer@rightsidebar%
2086         \if@RTLmain
2087             \geometry{left=\the\beamer@tempdim}%
2088         \else
2089             \geometry{right=\the\beamer@tempdim}%
2090         \fi
2091     \fi%
2092 }
2093
2094 \newcommand*{\bidi@beamer@Gm@lmargin}{%
2095     \if@RTLmain
2096         \Gm@rmargin
2097     \else
2098         \Gm@lmargin
2099     \fi
2100 }
2101
2102 \newcommand*{\bidi@beamer@Gm@rmargin}{%
2103     \if@RTLmain
2104         \Gm@lmargin

```



```

2105 \else
2106 \Gm@rmargin
2107 \fi
2108 }
2109
2110 \def\ps@navigation{
2111 \def\@oddhead{%
2112 \begingroup%
2113 \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransition}%
2114 \beamer@tempdim=\ht\beamer@tempbox%
2115 \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2116 \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2117 \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}}%
2118 \beamer@tempdim=\ht\@tempboxa%
2119 \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}}%
2120 \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2121 \vbox{\hbox{\hskip-\bidi@beamer@Gm@lmargin\box\beamer@tempbox\box\@tempboxa}%
2122 \hbox{%
2123 {%
2124 \setbox\beamer@tempbox=\hbox{\hskip-\bidi@beamer@Gm@lmargin%
2125 \if@RTLmain
2126 {%
2127 \vbox to \sidebarheight{%
2128 \usebeamertemplate***{sidebar left}%
2129 \vfil%
2130 }}%
2131 \ApplyPatchIfPackageLoadedF{beamerinnerthemeinmargin}{%
2132 \hskip-\textwidth
2133 }%
2134 \fi
2135 {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2136 \usebeamercolor*{sidebar left}%
2137 \usebeamertemplate{sidebar canvas left}%
2138 \vss%
2139 }}%
2140 \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2141 \box\beamer@tempbox}%
2142 \if@RTLmain
2143 \else
2144 {%
2145 \vbox to \sidebarheight{%
2146 \usebeamertemplate***{sidebar left}%
2147 \vfil%
2148 }}\fi}%
2149 \beamer@tempdim=\ht\beamer@tempbox%
2150 \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2151 \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2152 \box\beamer@tempbox%
2153 }%
2154 {% print right sidebar first, since it should be overwritten by headline
2155 \setbox\beamer@tempbox=\hbox{\hskip\textwidth\hskip\beamer@rightmargin%
2156 \if@RTLmain
2157 {%
2158 \vbox to \sidebarheight{%

```



```

2159         \usebeamertemplate***{sidebar right}%
2160         \vfil%
2161     }}%
2162     \hskip-\textwidth
2163     \fi
2164     {\setbox\beamer@tempbox=\hbox{\vbox to \sidebarheight{%
2165         \usebeamercolor*{sidebar right}%
2166         \usebeamertemplate{sidebar canvas right}%
2167         \vss%
2168     }}%
2169     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2170     \box\beamer@tempbox}%
2171     \if@RTLmain
2172     \else
2173     {%
2174         \vbox to \sidebarheight{%
2175             \usebeamertemplate***{sidebar right}%
2176             \vfil%
2177         }}\fi}%
2178     \beamer@tempdim=\ht\beamer@tempbox%
2179     \setbox\beamer@tempbox=\hbox{{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2180     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2181     \box\beamer@tempbox%
2182     }%
2183     \beamer@typesetheadorfoot{headline}%
2184     }%
2185     \hfil}%
2186     \endgroup}
2187     \def\@oddfoot{%
2188         \vbox{\offinterlineskip\hbox{\beamer@typesetheadorfoot{footline}%
2189             \hfil}\hbox{}}\hfil
2190     }%
2191     \let\@evenhead\@oddhead
2192     \let\@evenfoot\@oddfoot}
2193
2194     \AtBeginDocument{%
2195         \pagestyle{navigation}%
2196     }
2197
2198     \def\beamer@typesetheadorfoot#1{% typeset the head or footline
2199         {\parskip0pt\offinterlineskip%
2200             \hbox{%
2201                 \hskip-\bidi@beamer@Gm@lmargin%
2202                 \hbox{%
2203                     \vbox{%
2204                         \@tempdima=\textwidth%
2205                         \textwidth=\paperwidth%
2206                         \hsize=\textwidth%
2207                         \def\{\,%
2208                             \usebeamertemplate***{#1}%
2209                         }}%
2210                     \hskip-\bidi@beamer@Gm@rmargin%
2211                 }}\hfil%
2212         }

```



```

2213
2214 \def\ps@empty{%
2215   \let\@mkboth\@gobbletwo%
2216   \def\@oddhead{\begin{group}%
2217     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{background canvas}\hyper@pagetransition}%
2218     \beamer@tempdim=\ht\beamer@tempbox%
2219     \setbox\beamer@tempbox=\hbox{\lower\beamer@tempdim\hbox{\box\beamer@tempbox}}}%
2220     \wd\beamer@tempbox=0pt\ht\beamer@tempbox=0pt\dp\beamer@tempbox=0pt%
2221     \setbox\@tempboxa=\hbox{\usebeamertemplate***{background}}}%
2222     \beamer@tempdim=\ht\@tempboxa%
2223     \setbox\@tempboxa=\hbox{\lower\beamer@tempdim\hbox{\box\@tempboxa}}}%
2224     \wd\@tempboxa=0pt\ht\@tempboxa=0pt\dp\@tempboxa=0pt%
2225     \vbox{\hbox{\hskip-\Gm@lmargin\raise\headheight\box\beamer@tempbox\raise\headheight\box\@tempboxa}}%
2226     \endgroup%
2227   }
2228   \def\@oddfoot{\normalcolor\hfil%
2229     \setbox\beamer@tempbox=\hbox{\usebeamertemplate***{navigation symbols}\hskip-\bidi@beamer@margin}%
2230     \ht\beamer@tempbox=0pt%
2231     \dp\beamer@tempbox=0pt%
2232     \box\beamer@tempbox}}
2233   \let\@evenhead\@oddhead\let\@evenfoot\@oddfoot}
2234
2235 \renewenvironment<>{beamer@columnenv}[2][\beamer@colmode]{%
2236   \beamer@colclose\def\beamer@colclose{}}%
2237   \begin{actionenv}#3%
2238     \setkeys{beamer@col}{#1}%
2239     \begin{minipage}[\beamer@colalign]{#2}%
2240       \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2241     {\end{minipage}\hfill\end{actionenv}\@ignoretrue}
2242 \let\endcolumn\endbeamer@columnenv
2243
2244 \renewcommand<>\beamer@columncom[2][\beamer@colmode]{%
2245   \beamer@colclose%
2246   \def\beamer@colclose{\end{minipage}\hfill\end{actionenv}\ignorespaces}%
2247   \begin{actionenv}#3%
2248     \setkeys{beamer@col}{#1}%
2249     \begin{minipage}[\beamer@colalign]{#2}%
2250       \leavevmode\bidi@beamer@ragged\beamer@colheadskip\ignorespaces}
2251
2252 \renewenvironment<>{columns}[1][{}]{%
2253   \begin{actionenv}#2%
2254     \ifbeamer@onlytextwidth
2255       \def\beamer@colentrycode{\hbox to\textwidth\bgroup\ignorespaces}%
2256       \def\beamer@colexitcode{\unskip\egroup}
2257     \else%
2258       \def\beamer@colentrycode{%
2259         \hbox to\textwidth\bgroup%
2260         \leavevmode%
2261         \hskip-\beamer@leftmargin%
2262         \nobreak%
2263         \beamer@tempdim=\textwidth%
2264         \advance\beamer@tempdim by\beamer@leftmargin%
2265         \advance\beamer@tempdim by\beamer@rightmargin%
2266         \hbox to\beamer@tempdim\bgroup%

```





```

2267 \hbox{}\hfill\ignorespaces}%
2268 \def\beamer@colexitcode{\egroup%
2269 \nobreak%
2270 \hskip-\beamer@rightmargin\egroup}%
2271 \fi%
2272 \ifbeamer@centered\setkeys{beamer@col}{c}\else\setkeys{beamer@col}{t}\fi%
2273 \setkeys{beamer@col}{#1}%
2274 \par%
2275 \leavevmode
2276 \beamer@colentrycode%
2277 \def\beamer@colclose{}\ignorespaces}%
2278 {\beamer@colclose\def\beamer@colclose{}\beamer@colexitcode\end{actionenv}}%
2279
2280
2281 \def\@makeRTLftntext#1{%
2282 \def\insertfootnotetext{#1}%
2283 \def\insertfootnotemark{\@makefnmark}%
2284 \usebeamertemplate***{RTLfootnote}}
2285
2286 \def\@makeLTRftntext#1{%
2287 \def\insertfootnotetext{#1}%
2288 \def\insertfootnotemark{\@makefnmark}%
2289 \usebeamertemplate***{LTRfootnote}}
2290
2291 \renewcommand<>\beamer@framefootnotetext[1]{%
2292 \global\setbox\beamer@footins\vbox{%
2293 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
2294 \hsize\framewidth
2295 \textwidth\hsize
2296 \columnwidth\hsize
2297 \unvbox\beamer@footins
2298 \reset@font
2299 \bidi@@footnotetext@font
2300 \@parboxrestore
2301 \protected@edef\@currentlabel
2302 {\csname p@footnote\endcsname\@thefnmark}%
2303 \color@begingroup
2304 \uncover#2{\@makefntext{%
2305 \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2306 \color@endgroup}}
2307
2308 \renewcommand<>\beamer@frameRTLfootnotetext[1]{%
2309 \global\setbox\beamer@footins\vbox{%
2310 \@RTLtrue
2311 \hsize\framewidth
2312 \textwidth\hsize
2313 \columnwidth\hsize
2314 \unvbox\beamer@footins
2315 \reset@font
2316 \bidi@@RTLfootnotetext@font
2317 \@parboxrestore
2318 \protected@edef\@currentlabel
2319 {\csname p@footnote\endcsname\@thefnmark}%
2320 \color@begingroup

```



```

2321     \uncover#2{\@makeRTLfntext{%
2322         \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2323     \color@endgroup}}
2324
2325 \renewcommand<>\beamer@frameLTRfootnotetext[1]{%
2326     \global\setbox\beamer@footins\vbox{%
2327         \RTLfalse
2328         \hsize\framewidth
2329         \textwidth\hsize
2330         \columnwidth\hsize
2331         \unvbox\beamer@footins
2332         \reset@font
2333         \bidi@LTRfootnotetext@font
2334         \@parboxrestore
2335         \protected@edef\@currentlabel
2336             {\csname p@footnote\endcsname\@thefnmark}%
2337         \color@begingroup
2338         \uncover#2{\@makeRTLfntext{%
2339             \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2340         \color@endgroup}}
2341
2342 \renewcommand<>\@mpfootnotetext[1]{%
2343     \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\bidi@mpfootnotetext\@mpfootnotetext
2344     \global\setbox\@mpfootins\vbox{%
2345         \unvbox\@mpfootins
2346         \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
2347         \reset@font
2348         \bidi@footnotetext@font
2349         \hsize\columnwidth
2350         \@parboxrestore
2351         \protected@edef\@currentlabel
2352             {\csname p@mpfootnote\endcsname\@thefnmark}%
2353         \color@begingroup
2354         \uncover#2{\@makefntext{%
2355             \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2356         \color@endgroup}}
2357
2358 \renewcommand<>\@mpRTLfootnotetext[1]{%
2359     \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnotetext\right@footnotetext
2360     \global\setbox\@mpfootins\vbox{%
2361         \unvbox\@mpfootins
2362         \RTLtrue
2363         \reset@font
2364         \bidi@RTLfootnotetext@font
2365         \hsize\columnwidth
2366         \@parboxrestore
2367         \protected@edef\@currentlabel
2368             {\csname p@mpfootnote\endcsname\@thefnmark}%
2369         \color@begingroup
2370         \uncover#2{\@makeRTLfntext{%
2371             \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}}%
2372         \color@endgroup}}
2373
2374 \renewcommand<>\@mpLTRfootnotetext[1]{%

```



```

2375 \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\global\let\bidibidi@mpfootnoterule\left@footnot
2376 \global\setbox\@mpfootins\vbox{%
2377 \unvbox\@mpfootins
2378 \@RTLfalse
2379 \reset@font
2380 \bidi@L@RTLfootnotetext@font
2381 \hsize\columnwidth
2382 \@parboxrestore
2383 \protected@edef\@currentlabel
2384 {\csname p@mpfootnote\endcsname\@thefnmark}%
2385 \color@begingroup
2386 \uncover#2{\@makeL@RTLfootnotetext{%
2387 \rule\z@{\footnotesep\ignorespaces#1\@finalstrut\strutbox}}}%
2388 \color@endgroup}}
2389
2390 \let\@footnotetext=\beamer@framefootnotetext
2391 \let\@RTLfootnotetext=\beamer@frameRTLfootnotetext
2392 \let\@L@RTLfootnotetext=\beamer@frameL@RTLfootnotetext
2393
2394 \footdir@temp\footdir@ORG@bidi@beamer@footnotetext\@footnotetext{\bidi@footdir@footnote}%
2395 \footdir@temp\footdir@ORG@bidi@beamer@RTLfootnotetext\@RTLfootnotetext{R}%
2396 \footdir@temp\footdir@ORG@bidi@beamer@L@RTLfootnotetext\@L@RTLfootnotetext{L}%
2397
2398 \renewcommand<>{\footnote}[1][ ]{%
2399 \let\beamer@footnotetext=\@footnotetext%
2400 \let\beamer@mpfn=\@mpfn%
2401 \let\beamer@thempfn=\@thempfn%
2402 \let\beamer@kvorig=\KV@errx%
2403 \let\beamer@xkvorig=\XKV@err
2404 \def\beamer@footarg{}%
2405 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2406 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2407 \setkeys{beamerfootnote}{#1}%
2408 \let\KV@errx=\beamer@kvorig%
2409 \let\XKV@errx=\beamer@xkvorig%
2410 \ifx\beamer@footarg\@empty%
2411 \def\beamer@next{\stepcounter\beamer@mpfn
2412 \protected@xdef\@thefnmark{\beamer@thempfn}%
2413 \@footnotemark\beamer@footnotetext#2}%
2414 \else%
2415 \def\beamer@next{%
2416 \begingroup
2417 \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2418 \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2419 \endgroup
2420 \@footnotemark\beamer@footnotetext#2}%
2421 \fi%
2422 \beamer@next}
2423
2424 \renewcommand<>{\RTLfootnote}[1][ ]{%
2425 \let\beamer@RTLfootnotetext=\@RTLfootnotetext%
2426 \let\beamer@mpfn=\@mpfn%
2427 \let\beamer@thempfn=\@thempfn%
2428 \let\beamer@kvorig=\KV@errx%

```



```

2429 \let\beamer@xkvorig=\XKV@err
2430 \def\beamer@footarg{}%
2431 \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2432 \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2433 \setkeys{beamerfootnote}{#1}%
2434 \let\KV@errx=\beamer@kvorig%
2435 \let\XKV@errx=\beamer@xkvorig%
2436 \ifx\beamer@footarg\@empty%
2437   \def\beamer@next{\stepcounter\beamer@mpfn
2438     \protected@xdef\@thefnmark{\beamer@thempfn}%
2439     \@footnotemark\beamer@RTLfootnotetext#2}%
2440 \else%
2441   \def\beamer@next{%
2442     \begingroup
2443       \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2444       \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2445     \endgroup
2446     \@footnotemark\beamer@RTLfootnotetext#2}%
2447 \fi%
2448 \beamer@next}
2449
2450 \renewcommand<>{\LTRfootnote}[1][ ]{%
2451   \let\beamer@LTRfootnotetext=\@LTRfootnotetext%
2452   \let\beamer@mpfn=\@mpfn%
2453   \let\beamer@thempfn=\thempfn%
2454   \let\beamer@kvorig=\KV@errx%
2455   \let\beamer@xkvorig=\XKV@err
2456   \def\beamer@footarg{}%
2457   \def\KV@errx##1{\edef\beamer@footarg{\@tempa}}%
2458   \def\XKV@err##1{\edef\beamer@footarg{\XKV@tkey}}%
2459   \setkeys{beamerfootnote}{#1}%
2460   \let\KV@errx=\beamer@kvorig%
2461   \let\XKV@errx=\beamer@xkvorig%
2462   \ifx\beamer@footarg\@empty%
2463     \def\beamer@next{\stepcounter\beamer@mpfn
2464       \protected@xdef\@thefnmark{\beamer@thempfn}%
2465       \@footnotemark\beamer@LTRfootnotetext#2}%
2466   \else%
2467     \def\beamer@next{%
2468       \begingroup
2469         \csname c@\beamer@mpfn\endcsname\beamer@footarg\relax
2470         \unrestored@protected@xdef\@thefnmark{\beamer@thempfn}%
2471       \endgroup
2472       \@footnotemark\beamer@LTRfootnotetext#2}%
2473   \fi%
2474   \beamer@next}
2475
2476

```

## 20 File beamerbaseframesize-xetex-bidi.def

```

2477 \ProvidesFile{beamerbaseframesize-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beame
2478 \def\beamer@framezoom<#1><#2>[#3](#4,#5)(#6,#7){%
2479   \par\nointerlineskip%

```



```

2480 \global\beamer@slidehaszoomtrue%
2481 \advance\beamer@zoomcount by1\relax%
2482 \def\beamer@zoomborderwidth{0}%
2483 \edef\beamer@labelzoomed{\beamer@labelzoomed@\the\beamer@zoomframecount @\the\beamer@zoomcount}%
2484 \setkeys{beamerzoom}{#3}%
2485 \only<#1>{%
2486   {\hypersetup{pdfhighlight={/P},pdfborder={0 0 \beamer@zoomborderwidth}}}%
2487   \global\setbox\@tempboxa=\vbox{\hyperlink{\beamer@labelzoomed}{%
2488     \expandafter\ifx\csname XeTeXrevision\endcsname\relax
2489       \vbox to #7{%
2490         \hbox to#6{\hfil}%
2491         \vfil%
2492       }%
2493     \else%
2494       \begingroup%
2495       \normalsize%
2496       \begin{pgfpicture}{0pt}{0pt}{#6}{#7}%
2497       \pgfsetfillopacity{0}
2498       \pgftext[x=0cm,y=3pt]{.}
2499       \pgftext[x=#6,y=\dimexpr#7-\baselineskip+3pt]{.}
2500       \end{pgfpicture}%
2501     \endgroup%
2502     \fi%
2503   }%
2504   \ht\@tempboxa=0pt%
2505   \wd\@tempboxa=0pt%
2506   \dp\@tempboxa=0pt%
2507   \setbox\@tempboxa=\vbox{\if@RTL\moveleft\else\moveright\fi#4\hbox{\lower#5\vbox{\box\@tempboxa}%
2508     \ht\@tempboxa=0pt%
2509     \wd\@tempboxa=0pt%
2510     \dp\@tempboxa=0pt%
2511   \global\setbox\beamer@zoombox=\vbox to0pt{\unvbox\beamer@zoombox\box\@tempboxa}%
2512 }%
2513 \only<#2>{%
2514   \@ifundefined{\beamer@labelzoomed}%
2515   {%
2516     \hypertarget{\beamer@labelzoomed}{}%
2517     \expandafter\gdef\csname\beamer@labelzoomed\endcsname{}%
2518   }{}%
2519   \gdef\beamer@zoomer{%
2520     % compute zoom factor
2521     \@tempdima=\beamer@frametextheight%
2522     \@tempdimb=#7\relax%
2523     \@tempcnta=\@tempdimb%
2524     \divide\@tempcnta by4096\relax%
2525     \multiply\@tempdima by16\relax%
2526     \divide\@tempdima by\@tempcnta%
2527     \@tempdimb=\paperwidth%
2528     \ifbeamer@plainframe%
2529     \else%
2530       \advance\@tempdimb by-\beamer@leftsidebar%
2531       \advance\@tempdimb by-\beamer@rightsidebar\relax%
2532     \fi%
2533     \@tempdimc=#6\relax%

```



```

2534 \@tempcntb=\@tempdimc%
2535 \divide\@tempcntb by4096\relax%
2536 \multiply\@tempdimb by16\relax%
2537 \divide\@tempdimb by\@tempcntb%
2538 \ifdim\@tempdimb<\@tempdima%
2539 \@tempdima=\@tempdimb%
2540 \fi%
2541 \edef\beamer@temp{\strip@pt\@tempdima}%
2542 \@tempdimc=\beamer@frametextheight%
2543 \advance\@tempdimc by4pt%
2544 \@tempdimb=\paperwidth%
2545 \ifbeamer@plainframe%
2546 \else%
2547 \advance\@tempdimb by-\beamer@leftsidebar%
2548 \advance\@tempdimb by-\beamer@rightsidebar\relax%
2549 \fi%
2550 \setbox\@tempboxa=\vbox{\hsize=\@tempdimb\Acrobatmenu{GoBack}{\vbox to
2551 \beamer@frametextheight{\hbox to\@tempdimb{\hfil}\vfil}}}%
2552 \ht\@tempboxa=0pt%
2553 \wd\@tempboxa=0pt%
2554 \dp\@tempboxa=0pt%
2555 \setbox\beamer@framebox=\vbox to\beamer@frametextheight{%
2556 \ifbeamer@plainframe\beamer@leftmargin=Gm\margin\fi%
2557 \if@RTL
2558 \begin{pgfpicture}{\paperwidth-\beamer@leftmargin}{-\beamer@frametextheight}{\pape
2559 \pgftext[right,top]{\box\@tempboxa}
2560 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2561 \pgfusepath{clip}
2562 \begingroup
2563 \pgftransformscale{\beamer@temp}
2564 \@tempdima=#4\relax%
2565 \@tempdimb=#5\relax%
2566 {\pgftransformshift{\pgfpoint{\@tempdima+#6}{\@tempdimb}}}%
2567 \pgftext[right,top]{\vbox{\vbox{} \nointerlineskip\unvbox\beamer@framebox}}
2568 \endgroup
2569 \end{pgfpicture}%
2570 \else
2571 \begin{pgfpicture}{\beamer@leftmargin}{-\beamer@frametextheight}{\beamer@leftmargi
2572 \pgftext[left,top]{\box\@tempboxa}
2573 \pgfpathrectangle{\pgfpoint{0pt}{-\@tempdimc}}{\pgfpoint{\@tempdimb}{\@tempdimc}}
2574 \pgfusepath{clip}
2575 \begingroup
2576 \pgftransformscale{\beamer@temp}
2577 \@tempdima=#4\relax%
2578 \@tempdimb=#5\relax%
2579 {\pgftransformshift{\pgfpoint{-\@tempdima}{\@tempdimb}}}%
2580 \pgftext[left,top]{\vbox{\vbox{} \nointerlineskip\unvbox\beamer@framebox}}
2581 \endgroup
2582 \end{pgfpicture}%
2583 \fi
2584 }}%
2585 \setbox\beamer@framebox=\vbox{%
2586 \nobreak\vbox{} \nobreak\par \nobreak\beamer@entrycode \nobreak%
2587 \nointerlineskip\unvbox\beamer@frametitlebox%

```



```

2588         \nobreak%
2589         \box\beamer@framebox%
2590         \nobreak%
2591         \vss%
2592         \beamer@exitcode%
2593     }%
2594     \global\setbox\beamer@footins=\box\voidb@x% no footnotes in zoomed slides
2595 }%
2596 }%
2597 }
2598
2599

```

## 21 File beamerbaselocalstructure-xetex-bidi.def

```

2600 \ProvidesFile{beamerbaselocalstructure-xetex-bidi.def}[2022/05/24 v0.1 bidi adaptations for
2601 \def\beamer@enum@{%
2602   \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2603   \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2604   \bgroup
2605   \usebeamercolor[fg]{itemize/enumerate \beameritemnestingprefix body}%
2606   \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2607   \egroup
2608   \expandafter
2609     \list
2610     {\usebeamertemplate{\beamer@enumtempl}}
2611     {\usecounter\@enumctr%
2612       \def\makelabel##1{\hss\llap{\hss
2613         \usebeamerfont*{enumerate \beameritemnestingprefix item}%
2614         \usebeamercolor[fg]{enumerate \beameritemnestingprefix item}##1}}}%
2615   \beamer@cramped%
2616   \bidi@beamer@ragged%
2617   \beamer@firstlineitemizeunskip%
2618 }
2619
2620 \renewcommand{\itemize}[1][\hss]{%
2621   \ifblank{#1}{\def\beamer@defaulttospec{#1}}%
2622   \ifnum \@itemdepth >2\relax\@toodeep\else
2623     \advance\@itemdepth\@ne
2624     \beamer@compute@pref\@itemdepth% sets \beameritemnestingprefix
2625     \usebeamerfont{itemize/enumerate \beameritemnestingprefix body}%
2626     \bgroup
2627     \usebeamercolor[fg]{itemize/enumerate \beameritemnestingprefix body}%
2628     \usebeamertemplate{itemize/enumerate \beameritemnestingprefix body begin}%
2629     \egroup
2630     \list
2631     {\usebeamertemplate{itemize \beameritemnestingprefix item}}
2632     {\def\makelabel##1{\hss
2633       {\hss\llap{\hss
2634         \usebeamerfont*{itemize \beameritemnestingprefix item}%
2635         \usebeamercolor[fg]{itemize \beameritemnestingprefix item}##1}}}%
2636       }%
2637     }%
2638   }%

```



```

2639     }
2640     \fi%
2641     \beamer@cramped%
2642     \bidi@beamer@ragged%
2643     \beamer@firstlineitemizeunskip%
2644 }
2645
2646 \def\@@description{%
2647   \advance\beamer@descdefault by \labelsep%
2648   \usebeamerfont{description body}%
2649   \bgroup
2650   \usebeamercolor[fg]{description body}%
2651   \usebeamertemplate{description body begin}%
2652   \egroup
2653   \list
2654   {}
2655   {\labelwidth\beamer@descdefault\leftmargin\beamer@descdefault\let\makelabel\beamer@descrip
2656   \beamer@cramped%
2657   \bidi@beamer@ragged
2658   \beamer@firstlineitemizeunskip%
2659 }
2660
2661 \renewenvironment{thebibliography}[1]
2662 {%\leavevmode\unskip%
2663 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
2664 \bidi@thebibliography@font@hook%
2665   \list{\@biblabel{\@arabic{c@enumiv}}}%
2666         {\settowidth\labelwidth{\beamer@biblabeltemplate{\@biblabel{#1}}}%
2667         \leftmargin\labelwidth
2668         \advance\leftmargin\labelsep
2669         \itemsep=0pt%
2670         \partopsep=0pt%
2671         \topsep=0pt%
2672         \usecounter{enumiv}%
2673         \let\p@enumiv\@empty
2674         \renewcommand\theenumiv{\@arabic{c@enumiv}}
2675         \let\makelabel\beamer@biblabeltemplate}%
2676   \sloppy\bidi@beamer@ragged
2677   \clubpenalty10000
2678   \@clubpenalty \clubpenalty
2679   \widowpenalty10000%
2680   \sfcode`\.\@m}
2681 {\def\@noitemerr
2682   {\@latex@warning{Empty `thebibliography' environment}}}%
2683   \ifhmode\unskip\fi\endlist}
2684
2685

```

## 22 File beamerbasemisc-xetex-bidi.def

```

2686 \ProvidesFile{beamerbasemisc-xetex-bidi.def}[2022/06/27 v0.1 bidi adaptations for beamerbase
2687 \define@key{beamerst}{width}{%
2688   \def\beamer@ststart{%
2689     \begin{minipage}[t]{#1}%

```





```

2690     \bidi@beamer@ragged
2691     \beamer@stalign
2692     \beamer@stlinebreakrule
2693   }%
2694 \def\beamer@stend{\end{minipage}}
2695
2696

```

## 23 File beamerbasenavigation-xetex-bidi.def

```

2697 \ProvidesFile{beamerbasenavigation-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for beam
2698 \def\slideentry#1#2#3#4#5#6{%
2699   %section number, subsection number, slide number, first/last frame, page number, part numb
2700   \ifnum#6=\c@part\ifnum#1>0\ifnum#3>0%
2701     \ifbeamer@compress%
2702       \advance\beamer@xpos by1\relax%
2703     \else%
2704       \ifnum#2=0%
2705         \beamer@ypos@offset=1\relax%
2706       \fi
2707       \beamer@xpos=#3\relax%
2708       \beamer@ypos=#2\relax%
2709       \advance\beamer@ypos by \beamer@ypos@offset\relax
2710     \fi%
2711   \hbox to 0pt{%
2712     \beamer@tempdim=-\beamer@vboxoffset%
2713     \advance\beamer@tempdim by-\beamer@boxsize%
2714     \multiply\beamer@tempdim by\beamer@ypos%
2715     \advance\beamer@tempdim by -.05cm%
2716     \raise\beamer@tempdim\hbox{%
2717       \beamer@tempdim=\beamer@boxsize%
2718       \multiply\beamer@tempdim by\beamer@xpos%
2719       \advance\beamer@tempdim by -\beamer@boxsize%
2720       \advance\beamer@tempdim by 1pt%
2721       \kern\beamer@tempdim
2722       \global\beamer@section@min@dim\beamer@tempdim
2723       \hbox{\beamer@link(#4){%
2724         \usebeamerfont{mini frame}%
2725         \ifnum\c@section=#1%
2726           \ifnum\c@subsection=#2%
2727             \usebeamercolor[fg]{mini frame}%
2728             \ifnum\c@subsectionslide=#3%
2729               \usebeamertemplate{mini frame}%\beamer@minislidehighlight%
2730             \else%
2731               \usebeamertemplate{mini frame in current subsection}%\beamer@minisliderowhil
2732             \fi%
2733           \else%
2734             \usebeamercolor{mini frame}%
2735             %\color{fg!50!bg}%
2736             \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2737           \fi%
2738         \else%
2739           \usebeamercolor{mini frame}%
2740           %\color{fg!50!bg}%

```



```

2741         \usebeamertemplate{mini frame in other subsection}%\beamer@minislide%
2742         \fi%
2743     }}}} \hskip-10cm plus 1fil%
2744 } \fi \fi%
2745 \else%
2746 \fakeslideentry{#1}{#2}{#3}{#4}{#5}{#6}%
2747 \fi \ignorespaces
2748 }
2749
2750 \pgfdefobject{bidi@beamer@RTL@gotosymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2751 {
2752     \pgfpathmoveto{3.5bp}{0.5bp}
2753     \pgfpathqlineto{1.5bp}{2bp}
2754     \pgfpathqlineto{3.5bp}{3.5bp}
2755     \pgfusepathqfill
2756 }
2757
2758 \def\insertgotosymbol{%
2759 \if@RTL
2760     \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2761         \pgfuseobject{bidi@beamer@RTL@gotosymbol}%
2762     \end{pgfpicture}%
2763 \else
2764     \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2765         \pgfuseobject{beamer@gotosymbol}%
2766     \end{pgfpicture}%
2767 \fi
2768 }
2769
2770 \pgfdefobject{bidi@beamer@RTL@skipsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{7pt}{5pt}}
2771 {
2772     \pgfpathmoveto{5.5bp}{0.5bp}
2773     \pgfpathqlineto{3.5bp}{2bp}
2774     \pgfpathqlineto{5.5bp}{3.5bp}
2775     \pgfpathmoveto{3.5bp}{0.5bp}
2776     \pgfpathqlineto{1.5bp}{2bp}
2777     \pgfpathqlineto{3.5bp}{3.5bp}
2778     \pgfusepathqfill
2779 }
2780
2781 \def\insertskipsymbol{%
2782 \if@RTL
2783     \begin{pgfpicture}{-1pt}{0pt}{6pt}{5pt}
2784         \pgfuseobject{bidi@beamer@RTL@skipsymbol}%
2785     \end{pgfpicture}%
2786 \else
2787     \begin{pgfpicture}{1pt}{0pt}{8pt}{5pt}
2788         \pgfuseobject{beamer@skipsymbol}%
2789     \end{pgfpicture}%
2790 \fi
2791 }
2792
2793 \pgfdefobject{bidi@beamer@RTL@returnsymbol}{\pgfpoint{0pt}{-1pt}}{\pgfpoint{5pt}{5pt}}
2794 {

```



```

2795 \pgfpathmoveto{1.5bp}{0.5bp}
2796 \pgfpathqlineto{3.5bp}{2bp}
2797 \pgfpathqlineto{1.5bp}{3.5bp}
2798 \pgfusepathqfill
2799 }
2800
2801 \def\insertreturnsymbol{%
2802 \if@RTL
2803 \begin{pgfpicture}{-1pt}{0pt}{4pt}{5pt}
2804 \pgfuseobject{bidi@beamer@RTL@returnsymbol}%
2805 \end{pgfpicture}%
2806 \else
2807 \begin{pgfpicture}{1pt}{0pt}{6pt}{5pt}
2808 \pgfuseobject{beamerreturnsymbol}%
2809 \end{pgfpicture}%
2810 \fi
2811 }
2812
2813

```

## 24 File beamerbaseoverlay-xetex-bidi.def

```

2814 \ProvidesFile{beamerbaseoverlay-xetex-bidi.def}[2022/06/10 v0.1 bidi adaptations for beamer]
2815 \renewcommand<>{\color}{\alt#1{\beameroriginal{\color}}{\beamer@gobbleoptionalinsp}}
2816
2817

```

## 25 File beamerinnerthemedefault-xetex-bidi.def

```

2818 \ProvidesFile{beamerinnerthemedefault-xetex-bidi.def}[2022/06/27 v0.6 bidi adaptations for beamer]
2819 \newcommand*{\bidi@beamer@leftskip}{%
2820 \if@RTL
2821 \rightskip
2822 \else
2823 \leftskip
2824 \fi
2825 }
2826
2827 \newcommand*{\bidi@beamer@rightskip}{%
2828 \if@RTL
2829 \leftskip
2830 \else
2831 \rightskip
2832 \fi
2833 }
2834
2835 \bidi@csundef{beamer@tmpop@subsection in toc@default}
2836
2837 \bidi@csundef{beamer@tmpop@subsubsection in toc@default}
2838
2839 \defbeamertemplate*{subsection in toc}{default}
2840 {\leavevmode\bidi@beamer@leftskip=1.5em\inserttocsubsection\par}
2841
2842 \defbeamertemplate*{subsubsection in toc}{default}

```



```

2843 {\leavevmode\normalsize\usebeamerfont{subsection in toc}\bidi@beamer@leftskip=3em%
2844 \usebeamerfont{subsubsection in toc}\inserttocsubsubsection\par}
2845
2846 \newcommand*{\bidi@beamer@blacktriangle}{%
2847   \if@RTL
2848     $\blacktriangleleft$%
2849   \else
2850     $\blacktriangleright$%
2851   \fi
2852 }
2853
2854 \bidi@csundef{beamer@@tmpop@itemize item@default}
2855
2856 \bidi@csundef{beamer@@tmpop@itemize subitem@default}
2857
2858 \bidi@csundef{beamer@@tmpop@itemize subsubitem@default}
2859
2860 \defbeamertemplate*{itemize item}{default}{\usebeamerfont*{itemize item}\raise1.25pt\hbox{\d
2861 \defbeamertemplate*{itemize subitem}{default}{\usebeamerfont*{itemize subitem}\raise1.5pt\hb
2862 \defbeamertemplate*{itemize subsubitem}{default}{\usebeamerfont*{itemize subsubitem}\raise1.
2863
2864 \bidi@undef\beamer@@tmpop@footnote@default
2865
2866 \defbeamertemplate*{footnote}{default}
2867 {
2868   \parindent 1em\noindent%
2869   \bidi@beamer@ragged
2870   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2871 }
2872
2873 \defbeamertemplate*{RTLfootnote}{default}
2874 {
2875   \parindent 1em\noindent%
2876   \raggedleft
2877   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2878 }
2879
2880 \defbeamertemplate*{LTRfootnote}{default}
2881 {
2882   \parindent 1em\noindent%
2883   \raggedright
2884   \hbox to 1.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
2885 }
2886
2887 \bidi@undef\beamer@@tmpop@caption@default
2888
2889 \defbeamertemplate*{caption}{default}
2890 {%
2891   \bidi@beamer@ragged
2892   {%
2893     \leavevmode
2894     \usebeamerfont*{caption name}%
2895     \usebeamerfont*{caption name}%
2896     \insertcaptionname

```



```

2897 \usebeamertemplate{caption label separator}%
2898 }%
2899 \insertcaption\par
2900 }
2901
2902 \bidi@csundef{beamer@@tmpop@block begin@default}
2903
2904 \bidi@csundef{beamer@@tmpop@block alerted begin@default}
2905
2906 \bidi@csundef{beamer@@tmpop@block example begin@default}
2907
2908 \defbeamertemplate*{block begin}{default}
2909 {
2910 \par\vskip\medskipamount%
2911 \begin{beamercolorbox}[colsep*=.75ex]{block title}
2912 \usebeamerfont*{block title}\insertblocktitle%
2913 \end{beamercolorbox}%
2914 {\parskip0pt\par}%
2915 \ifbeamercoloreempty[bg]{block title}
2916 {}
2917 {\ifbeamercoloreempty[bg]{block body}{\nointerlineskip\vskip-0.5pt}}%
2918 \usebeamerfont{block body}%
2919 \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body}%
2920 \ifbeamercoloreempty[bg]{block body}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\baselineskip}
2921 }
2922
2923 \defbeamertemplate*{block alerted begin}{default}
2924 {
2925 \par\vskip\medskipamount%
2926 \begin{beamercolorbox}[colsep*=.75ex]{block title alerted}
2927 \usebeamerfont*{block title alerted}\insertblocktitle%
2928 \end{beamercolorbox}%
2929 {\parskip0pt\par}%
2930 \ifbeamercoloreempty[bg]{block title alerted}
2931 {}
2932 {\ifbeamercoloreempty[bg]{block body alerted}{\nointerlineskip\vskip-0.5pt}}%
2933 \usebeamerfont{block body alerted}%
2934 \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body alerted}%
2935 \ifbeamercoloreempty[bg]{block body alerted}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\baselineskip}
2936 }
2937
2938 \defbeamertemplate*{block example begin}{default}
2939 {
2940 \par\vskip\medskipamount%
2941 \begin{beamercolorbox}[colsep*=.75ex]{block title example}
2942 \usebeamerfont*{block title example}\insertblocktitle%
2943 \end{beamercolorbox}%
2944 {\parskip0pt\par}%
2945 \ifbeamercoloreempty[bg]{block title example}
2946 {}
2947 {\ifbeamercoloreempty[bg]{block body example}{\nointerlineskip\vskip-0.5pt}}%
2948 \usebeamerfont{block body example}%
2949 \begin{beamercolorbox}[colsep*=.75ex,vmode]{block body example}%
2950 \ifbeamercoloreempty[bg]{block body example}{\vskip-.25ex}{\leavevmode\vskip-\dimexpr.75ex+\baselineskip}

```



```

2951 }
2952
2953 \bidi@csundef{beamer@@tmpop@abstract begin@default}
2954
2955 \defbeamertertemplate*{abstract begin}{default}
2956 {\beamercolorbox[vmode]{abstract}\bidi@beamer@leftskip2em\bidi@beamer@rightskip2em plus 1fil
2957
2958 \bidi@undef\beamer@@tmpop@button@default
2959
2960 \defbeamertertemplate*{button}{default}
2961 {%
2962   \setbox\beamer@tempbox=\hbox{\insertbuttontext}%
2963   \ht\beamer@tempbox=6pt%
2964   \dp\beamer@tempbox=0pt%
2965   \setbox\beamer@tempbox=\vbox{\box\beamer@tempbox\vskip2pt}%
2966   \beamer@tempdim=\wd\beamer@tempbox%
2967   \beamer@dima=\beamer@tempdim\advance\beamer@dima by2.2pt
2968   \beamer@dimb=\beamer@tempdim\advance\beamer@dimb by4pt
2969   \if@RTL
2970     \kern4pt%
2971     \box\beamer@tempbox%
2972     \hskip-\beamer@tempdim%
2973   \fi
2974   \begin{pgfpicture}{-4pt}{0pt}{\the\beamer@tempdim}{8pt}
2975     \color{bg}
2976     \pgfsetlinewidth{0.8pt}
2977     \pgfpathmoveto{0pt}{0pt}
2978     \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2979     \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2980     \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2981     \pgfpathcurveto%
2982       {\pgfpoint{\the\beamer@dima}{8pt}}%
2983       {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
2984       {\pgfpoint{\the\beamer@dimb}{4pt}}
2985     \pgfpathcurveto%
2986       {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
2987       {\pgfpoint{\the\beamer@dima}{0pt}}%
2988       {\pgfpoint{\the\beamer@tempdim}{0pt}}
2989     \pgfpathclose
2990     \pgfusepathqfill
2991     \colorlet{bg}{parent.bg}
2992     \usebeamercolor[fg]{button border}
2993     \pgfpathmoveto{0pt}{0pt}
2994     \pgfpathqcurveto{-2.2pt}{0pt}{-4pt}{1.8pt}{-4pt}{4pt}
2995     \pgfpathqcurveto{-4pt}{6.2pt}{-2.2pt}{8pt}{0pt}{8pt}
2996     \pgfpathlineto{\pgfpoint{\the\beamer@tempdim}{8pt}}
2997     \pgfpathcurveto%
2998       {\pgfpoint{\the\beamer@dima}{8pt}}%
2999       {\pgfpoint{\the\beamer@dimb}{6.2pt}}%
3000       {\pgfpoint{\the\beamer@dimb}{4pt}}
3001     \pgfpathcurveto%
3002       {\pgfpoint{\the\beamer@dimb}{1.8pt}}%
3003       {\pgfpoint{\the\beamer@dima}{0pt}}%
3004       {\pgfpoint{\the\beamer@tempdim}{0pt}}

```



```

3005 \pgfpathclose
3006 \pgfusepathqstroke
3007 \end{pgfpicture}%
3008 \if@RTL
3009 \else
3010 \hskip-\beamer@tempdim%
3011 \box\beamer@tempbox%
3012 \kern4pt%
3013 \fi
3014 }
3015
3016

```

## 26 File beamerinnerthemecircles-xetex-bidi.def

```

3017 \ProvidesFile{beamerinnerthemecircles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations for b
3018 \setbeamertemplate{sections/subsections in toc}[circle]
3019

```

## 27 File beamerinnerthemefocus-xetex-bidi.def

```

3020 \ProvidesFile{beamerinnerthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
3021 \setbeamertemplate{section in toc}[square]
3022 \setbeamertemplate{subsection in toc}[square]
3023
3024 \setbeamertemplate{itemize items}[square]
3025 \setbeamertemplate{itemize subitem}[triangle]
3026
3027 \bidi@csundef{beamer@@tmpop@title page@focus}
3028
3029 \defbeamertemplate*{title page}{focus}{%
3030   {%
3031     \usebeamercolor{frametitle}\colorlet{focus@@temp}{bg}%
3032     \begin{tikzpicture}[overlay, remember picture]
3033       \fill[color=focus@@temp] (current page.north west) rectangle ([shift = {(0, -0.4
3034     \end{tikzpicture}
3035   }
3036
3037   \vspace{-1.65\baselineskip}
3038   \begin{minipage}[b] [0.35\paperheight]{\textwidth}
3039     \vspace{\baselineskip}
3040     \usebeamerfont{title}
3041     \usebeamercolor[fg]{frametitle}
3042     \inserttitle
3043   \end{minipage}
3044
3045   \begin{minipage}[t] [0.1\paperheight]{\textwidth}
3046     \usebeamerfont{subtitle}
3047     \usebeamercolor[fg]{frametitle}
3048     \insertsubtitle
3049   \end{minipage}
3050
3051   % Set the title graphic in a zero-height box, so that
3052   % the position of other elements is not affected.

```



```

3053   {\vfuzz=9999pt\vbox to 0pt {
3054       \if@RTL
3055       \raggedright
3056       \else
3057       \raggedleft
3058       \fi
3059       \inserttitlegraphic
3060   }}
3061
3062   \begin{minipage}[t]{\textwidth}
3063       \usebeamerfont{author}
3064       \insertauthor
3065   \end{minipage}
3066
3067   \vspace*{\baselineskip}
3068   \begin{minipage}[t]{\textwidth}
3069       \usebeamerfont{institute}
3070       \insertinstitute
3071   \end{minipage}
3072
3073   \vspace*{\baselineskip}
3074   \begin{minipage}[t]{\textwidth}
3075       \usebeamerfont{date}
3076       \insertdate
3077   \end{minipage}
3078
3079   \vspace*{0pt plus 100fill}
3080
3081   \addtocounter{framenum}{-1}
3082   \addtocounter{realframenum}{-1}
3083 }
3084
3085
3086

```

## 28 File beamerinnerthemeinmargin-xetex-bidi.def

```

3087 \ProvidesFile{beamerinnerthemeinmargin-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for
3088 \AtBeginDocument{%
3089   \setbeamsize{sidebar width left=.25\paperwidth}%
3090 }
3091
3092 \bidi@csundef{beamer@@tmpop@section in toc@inmargin}
3093
3094 \bidi@csundef{beamer@@tmpop@title page@inmargin}
3095
3096 \bidi@csundef{beamer@@tmpop@block begin@inmargin}
3097
3098 \bidi@csundef{beamer@@tmpop@block end@inmargin}
3099
3100 \bidi@csundef{beamer@@tmpop@block alerted begin@inmargin}
3101
3102 \bidi@csundef{beamer@@tmpop@block alerted end@inmargin}
3103

```





```

3104 \bidi@csundef{beamer@@tmpop@block example begin@inmargin}
3105
3106 \bidi@csundef{beamer@@tmpop@block example end@inmargin}
3107
3108 \defbeamertemplate*{section in toc}{inmargin}
3109 {\leavevmode
3110   \beamer@putleft{\usebeamercolor[fg]{section in toc}\inserttocsection\strut}{2.5ex}}
3111
3112 \defbeamertemplate*{title page}{inmargin}
3113 {
3114   \begin{block}{\inserttitleindicator}
3115     \bgroup\usebeamercolor[fg]{title}\usebeamerfont{title}\inserttitle\egroup\par
3116     \usebeamercolor[fg]{subtitle}\usebeamerfont{subtitle}\insertsubtitle
3117   \end{block}
3118   \vfill
3119   \ifx\insertauthor\@empty
3120   \else
3121     \begin{block}{\insertauthorindicator}
3122       \bgroup\usebeamercolor[fg]{author}\usebeamerfont{author}\insertauthor\egroup\par
3123     \end{block}
3124     \fi
3125     \ifx\insertinstitute\@empty
3126     \else
3127       \begin{block}{\insertinstituteindicator}
3128         \bgroup\usebeamercolor[fg]{institute}\usebeamerfont{institute}\insertinstitute\egroup\par
3129       \end{block}
3130       \fi
3131       \ifx\insertdate\@empty
3132       \else
3133         \begin{block}{\insertdateindicator}
3134           \bgroup\usebeamercolor[fg]{date}\usebeamerfont{date}\insertdate\egroup\par
3135         \end{block}
3136         \fi
3137       }
3138
3139 \defbeamertemplate*{block begin}{inmargin}
3140 {
3141   \par\vskip\medskipamount%
3142   \leavevmode%
3143   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title}\usebeamerfont*{block title}\i
3144   \beginL\beamer@putright
3145   %\usebeamercolor[fg]{block body}% to be done!
3146 }
3147
3148 \defbeamertemplate*{block end}{inmargin}
3149 {\endbeamer@putright\endL\vskip\smallskipamount}
3150
3151 \defbeamertemplate*{block alerted begin}{inmargin}
3152 {
3153   \par\vskip\medskipamount%
3154   \leavevmode%
3155   \beamer@putleft{\normalfont{\usebeamercolor[fg]{block title alerted}\usebeamerfont*{block
3156   \beginL\beamer@putright
3157   %\usebeamercolor[fg]{block body alerted}% to be done!

```



```

3158 }
3159
3160 \defbeamertemplate*{block alerted end}{inmargin}
3161 {\endbeamer@putright\endL\vskip\smallskipamount}
3162
3163 \defbeamertemplate*{block example begin}{inmargin}
3164 {
3165   \par\vskip\medskipamount%
3166   \leavevmode%
3167   \beamer@putleft{\normalfont{\usebeamerfont{fg}}{block title example}\usebeamerfont*{block
3168   \beginL\beamer@putright
3169   %\usebeamerfont{fg}{block body example}% to be done
3170 }
3171
3172 \defbeamertemplate*{block example end}{inmargin}
3173 {\endbeamer@putright\endL\vskip\smallskipamount}
3174
3175 \bidi@AfterFile{beamerinnerthememetropolis-xetex-bidi.def}{%
3176   \setbeamertemplate{section in toc}[inmargin]%
3177   \setbeamertemplate{subsection in toc}[inmargin]%
3178   \setbeamertemplate{subsubsection in toc}[inmargin]%
3179 }
3180
3181

```

## 29 File beamerinnerthememetropolis-xetex-bidi.def

```

3182 \ProvidesFile{beamerinnerthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3183 \setbeamertemplate{title}{
3184   \bidi@beamer@ragged%
3185   \linespread{1.0}%
3186   \inserttitle%
3187   \par%
3188   \vspace*{0.5em}
3189 }
3190
3191 \setbeamertemplate{subtitle}{
3192   \bidi@beamer@ragged%
3193   \insertsubtitle%
3194   \par%
3195   \vspace*{0.5em}
3196 }
3197
3198 \bidi@csundef{beamer@@tmpop@section page@progressbar}
3199
3200 \defbeamertemplate{section page}{progressbar}{
3201   \centering
3202   \begin{minipage}{22em}
3203     \bidi@beamer@ragged
3204     \usebeamerfont{fg}{section title}
3205     \usebeamerfont{section title}
3206     \insertsectionhead\[-1ex]
3207     \usebeamertemplate*{progress bar in section page}
3208     \par

```



```

3209 \ifx\insertsubsectionhead\@empty\else%
3210 \usebeamercolor[fg]{subsection title}%
3211 \usebeamerfont{subsection title}%
3212 \insertsubsectionhead
3213 \fi
3214 \end{minipage}
3215 \par
3216 \vspace{\baselineskip}
3217 }
3218
3219 \setbeamertemplate{progress bar in section page}{
3220 \setlength{\metropolis@progressonsectionpage}{%
3221 \textwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}}%
3222 }%
3223 \begin{tikzpicture}
3224 \fill[bg] (0,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3225 \if@RTLmain
3226 \fill[fg] (\textwidth-\metropolis@progressonsectionpage,0) rectangle (\textwidth, \metropolis@progressonsectionpage@linewidth);
3227 \else
3228 \fill[fg] (0,0) rectangle (\metropolis@progressonsectionpage, \metropolis@progressonsectionpage@linewidth);
3229 \fi
3230 \end{tikzpicture}%
3231 }
3232
3233 \renewcommand{\metropolis@block}[1]{
3234 \par\vskip\medskipamount%
3235 \setlength{\parskip}{0pt}
3236 \ifbeamercoloreempty[bg]{block title#1}{%
3237 \if@RTL
3238 \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3239 \else
3240 \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3241 \fi
3242 }{%
3243 \ifbeamercoloreempty[bg]{block title}{%
3244 \if@RTL
3245 \begin{beamercolorbox}[leftskip=0pt plus 4em]{block title#1}%
3246 \else
3247 \begin{beamercolorbox}[rightskip=0pt plus 4em]{block title#1}%
3248 \fi
3249 }%
3250 }%
3251 \if@RTL
3252 \begin{beamercolorbox}[
3253 sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3254 rightskip=\metropolis@blockadjust,
3255 leftskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3256 ]{block title#1}%
3257 \else
3258 \begin{beamercolorbox}[
3259 sep=\dimexpr\metropolis@blocksep-\metropolis@blockadjust\relax,
3260 leftskip=\metropolis@blockadjust,
3261 rightskip=\dimexpr\metropolis@blockadjust plus 4em\relax
3262 ]{block title#1}%

```



```

3263 \fi
3264 }}%
3265 \usebeamerfont*{block title#1}%
3266 \metropolis@strut%
3267 \insertblocktitle%
3268 \metropolis@strut%
3269 \end{beamercolorbox}%
3270 \nointerlineskip%
3271 \ifbeamercoloreempty[bg]{block body#1}{%
3272 \begin{beamercolorbox}[vmode]{block body#1}}{
3273 \ifbeamercoloreempty[bg]{block body}{%
3274 \begin{beamercolorbox}[vmode]{block body#1}%
3275 }{%
3276 \begin{beamercolorbox}[sep=\metropolis@blocksep, vmode]{block body#1}%
3277 \vspace{-\metropolis@parskip}
3278 }}%
3279 \usebeamerfont{block body#1}%
3280 \setlength{\parskip}{\metropolis@parskip}%
3281 }
3282
3283
3284 \setbeamertemplate{footnote}{%
3285 \parindent 0em\noindent%
3286 \bidi@beamer@ragged
3287 \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3288 }
3289
3290 \setbeamertemplate{RTLfootnote}{%
3291 \parindent 0em\noindent%
3292 \raggedleft
3293 \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3294 }
3295
3296 \setbeamertemplate{LTRfootnote}{%
3297 \parindent 0em\noindent%
3298 \raggedright
3299 \usebeamercolor{footnote}\hbox to 0.8em{\hfil\insertfootnotemark}\insertfootnotetext\par%
3300 }
3301
3302 \setbeamertemplate{itemize items}{\textbullet}
3303
3304 \setbeamertemplate{section page}[progressbar]
3305
3306

```

## 30 File beamerinnerthemerectangles-xetex-bidi.def

```

3307 \ProvidesFile{beamerinnerthemerectangles-xetex-bidi.def}[2022/06/06 v0.1 bidi adaptations fo
3308 \setbeamertemplate{sections/subsections in toc}[square]
3309 \setbeamertemplate{items}[square]
3310

```

## 31 File beamerinnerthemeroounded-xetex-bidi.def



```

3311 \ProvidesFile{beamerinnerthemrounded-xetex-bidi.def}[2022/06/01 v0.1 bidi adaptations for b
3312 \setbeamertemplate{blocks}[rounded] [shadow=\beamer@themrounded@shadow]
3313 \setbeamertemplate{items}[ball]
3314 \setbeamertemplate{sections/subsections in toc}[ball]
3315

```

## 32 File beamerouterthemedefault-xetex-bidi.def

```

3316 \ProvidesFile{beamerouterthemedefault-xetex-bidi.def}[2022/06/27 v0.2 bidi adaptations for b
3317 \def\beamer@fteleft{\if@RTLmain\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightskip by1.
3318
3319 \def\beamer@fteright{\if@RTLmain\else\vskip0.35cm\advance\leftskip by 1.7cm\advance\rightski
3320
3321 \AtBeginDocument{%
3322   \if@RTLmain
3323     \setbeamertemplate{frametitle}[default][right]
3324   \fi
3325 }
3326
3327 \bidi@csundef{beamer@@tmpop@note page@default}
3328
3329 \newcommand*{\bidi@beamer@today}{%
3330 \the\year-\ifnum\month<10\relax0\fi\the\month-\ifnum\day<10\relax0\fi\the\day}
3331
3332 \defbeamertemplate*{note page}{default}
3333 {%
3334   {%
3335     \scriptsize
3336     \usebeamerfont{note title}\usebeamercolor[fg]{note title}%
3337     \ifbeamercolorempy[bg]{note title}{}{%
3338       \insertvrule{.25\paperheight}{note title.bg}%
3339       \vskip-.25\paperheight%
3340       \nointerlineskip%
3341     }%
3342     \vbox{
3343       \hfill\insertslideintonotes{0.25}\hskip-\Gm@rmargin\hskip0pt%
3344       \vskip-0.25\paperheight%
3345       \nointerlineskip
3346       \if@RTL
3347         \begin{pgfpicture}{-\textwidth}{0cm}{-\textwidth}{0cm}
3348           \begin{pgflowlevelscope}{\pgftransformrotate{-90}}
3349             {\pgftransformshift{\pgfpoint{2cm}{0.2cm}}}%
3350             \pgftext[base,right]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3351           \end{pgflowlevelscope}
3352         \end{pgfpicture}%
3353       \else
3354         \begin{pgfpicture}{0cm}{0cm}{0cm}{0cm}
3355           \begin{pgflowlevelscope}{\pgftransformrotate{90}}
3356             {\pgftransformshift{\pgfpoint{-2cm}{0.2cm}}}%
3357             \pgftext[base,left]{\usebeamerfont{note date}\usebeamercolor[fg]{note date}\bidi@
3358           \end{pgflowlevelscope}
3359         \end{pgfpicture}%
3360       \fi}
3361     \nointerlineskip

```



```

3362 \vbox to .25\paperheight{\vskip0.5em
3363 \if@RTL
3364 \moveright0.25\textwidth
3365 \fi
3366 \hbox{\insertshorttitle[width=0.75\textwidth]}}%
3367 \setbox\beamer@tempbox=\hbox{\insertsection}%
3368
3369 \if@RTL
3370 \moveright\dimexpr0.29\textwidth-14pt\relax
3371 \fi
3372 \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip4pt\raise3pt\hbox{\vrule
3373 width0.4pt height7pt\vrule width 9pt
3374 height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}}\fi
3375 \if@RTL\endR\fi}}%
3376 \setbox\beamer@tempbox=\hbox{\insertsubsection}%
3377
3378 \if@RTL
3379 \moveright\dimexpr0.29\textwidth-27.4pt\relax
3380 \fi \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip17.4pt\raise3pt\hbox{\vrule
3381 width0.4pt height7pt\vrule width 9pt
3382 height0.4pt}}\hskip1pt\hbox{\begin{minipage}[t]{0.71\textwidth}\def\breakhere{}}\fi
3383 \if@RTL\endR\fi}}%
3384 \setbox\beamer@tempbox=\hbox{\insertshortframetitle}%
3385
3386 \if@RTL
3387 \moveright\dimexpr0.33\textwidth-40.8pt\relax
3388 \fi \hbox{\if@RTL\beginR\fi\ifdim\wd\beamer@tempbox>1pt{\hskip30.8pt\raise3pt\hbox{\vrule
3389 width0.4pt height7pt\vrule width 9pt
3390 height0.4pt}}\hskip1pt\hbox{\insertshortframetitle[width=0.67\textwidth]}\fi}
3391 \if@RTL\endR\fi}}%
3392 \vfil}%
3393 }%
3394 \ifbeamercoloreempty{bg}{note page}{}{%
3395 \nointerlineskip%
3396 \insertvrule{.75\paperheight}{note page.bg}%
3397 \vskip-.75\paperheight%
3398 }%
3399 \vskip.25em
3400 \nointerlineskip
3401 \insertnote
3402 }
3403
3404
3405

```

### 33 File beamerouterthemefocus-xetex-bidi.def

```

3406 \ProvidesFile{beamerouterthemefocus-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations for bea
3407 \bidi@undef\beamer@@tmpop@footline@progressbar
3408
3409 \defbeamer@template*{footline}{progressbar}{%
3410 % If not appendix.
3411 \ifnum\mainend<0% From package appendixnumberbeamer.
3412 %

```



```

3413 \settowidth{\focus@pbar@leftoffset}{1}%
3414 \addtolength{\focus@pbar@leftoffset}{1.5em}%
3415 %
3416 \ifx\beamer@focus@totalframenummering\no%
3417 \settowidth{\focus@pbar@rightoffset}{}%
3418 \addtolength{\focus@pbar@rightoffset}{0.5em}%
3419 \else%
3420 \settowidth{\focus@pbar@rightoffset}{\inserttotalframenummer}%
3421 \addtolength{\focus@pbar@rightoffset}{1.5em}%
3422 \fi%
3423 %
3424 % If not title page.
3425 \ifnum\value{realframenummer}>0%
3426 \ifnum\value{framenummer}<\inserttotalframenummer%
3427 \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]\usebeamerfont{footline}
3428 \pgfmathsetmacro{\focus@pbar@progress}%
3429 {(\paperwidth-\focus@pbar@leftoffset-\focus@pbar@rightoffset)*(\inserttotalframenummer-\value{framenummer})/\value{realframenummer}}
3430
3431 \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3432 \if@RTLmain
3433 \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@leftoffset,\the\focus@pbar@height);
3434 \fill[footline.bg] (\paperwidth-\the\focus@pbar@leftoffset,0) rectangle ++(0,{-0.5*\the\focus@pbar@height}) node[anchor=west,inner sep=0pt]{};
3435
3436 \else
3437 \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@leftoffset,\the\focus@pbar@height);
3438 \fill[footline.bg] (\the\focus@pbar@leftoffset,0) rectangle ++(\focus@pbar@rightoffset,\the\focus@pbar@height) node[anchor=east,inner sep=0pt]{};
3439
3440 \fi
3441
3442 \ifx\beamer@focus@totalframenummering\no%
3443 \else%
3444 \if@RTLmain
3445 \fill[footline.bg] (0,0) rectangle ++(\the\focus@pbar@rightoffset,\the\focus@pbar@height) node[anchor=east,inner sep=0pt]{};
3446 \else
3447 \fill[footline.bg] (\paperwidth,0) rectangle ++(-\the\focus@pbar@rightoffset,\the\focus@pbar@height) node[anchor=west,inner sep=0pt]{};
3448
3449 \fi
3450 \fi%
3451 \end{tikzpicture}%
3452 \else%
3453 \begin{tikzpicture}[inner xsep=0.5em, inner ysep=0.5ex]
3454 \clip (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3455 \fill[footline.bg] (0,0) rectangle ++(\paperwidth,\the\focus@pbar@height);
3456 \if@RTLmain
3457 \node[anchor=west, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {\inserttotalframenummer-\value{framenummer}};
3458 \else
3459 \node[anchor=east, footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {\inserttotalframenummer-\value{framenummer}};
3460 \fi
3461 \ifx\beamer@focus@totalframenummering\no%
3462 \else%
3463 \if@RTLmain
3464 \node[footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {\inserttotalframenummer-\value{framenummer}};
3465 \node[anchor=east, footline.fg] at ({\the\focus@pbar@rightoffset},{0.5*\the\focus@pbar@height}) {\inserttotalframenummer-\value{framenummer}};
3466 \else

```



```

3467             \node[footline.fg] at ({\paperwidth-\the\focus@pbar@rightoffset},{0.
3468             \node[anchor=west, footline.fg] at ({\paperwidth-\the\focus@pbar@rig
3469 \fi
3470             \fi%
3471         \end{tikzpicture}%
3472     \fi%
3473 \fi%
3474 \fi%
3475 }
3476
3477

```

### 34 File beamerouterthemeinfolines-xetex-bidi.def

```

3478 \ProvidesFile{beamerouterthemeinfolines-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for
3479 \bidi@csundef{beamer@tmpop@footline@infolines theme}
3480
3481 \defbeamertemplate*{footline}{infolines theme}
3482 {%
3483     \leavevmode%
3484     \hbox{%
3485         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{author in head/foot}%
3486         \usebeamerfont{author in head/foot}\insertshortauthor\expandafter\ifblank\expandafter{\b
3487         \end{beamercolorbox}%
3488         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,center]{title in head/foot}%
3489         \usebeamerfont{title in head/foot}\insertshorttitle
3490         \end{beamercolorbox}%
3491         \begin{beamercolorbox}[wd=.333333\paperwidth,ht=2.25ex,dp=1ex,leftskip=2ex,rightskip=2ex,s
3492         \hfill%
3493         \usebeamerfont{date in head/foot}%
3494         \insertshortdate{}%
3495         \hfill%
3496         \bgroup
3497         \usebeamercolor{fg}{page number in head/foot}%
3498         \usebeamerfont{page number in head/foot}%
3499         \usebeamertemplate{page number in head/foot}%
3500         \egroup
3501     \end{beamercolorbox}}%
3502     \vskip0pt%
3503 }
3504
3505 \bidi@csundef{beamer@tmpop@headline@infolines theme}
3506
3507 \defbeamertemplate*{headline}{infolines theme}
3508 {%
3509     \leavevmode%
3510     \hbox{%
3511         \if@RTL
3512         \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{section in head/foot}%
3513         \else
3514         \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{section in head/foot}%
3515         \fi
3516         \usebeamerfont{section in head/foot}\insertsectionhead\hspace*{2ex}
3517     \end{beamercolorbox}%

```





```

3518 \if@RTL
3519   \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,right]{subsection in head/foot}
3520 \else
3521   \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.65ex,dp=1.5ex,left]{subsection in head/foot}%
3522 \fi
3523   \usebeamerfont{subsection in head/foot}\hspace*{2ex}\insertsubsectionhead
3524   \end{beamercolorbox}}%
3525   \vskip0pt%
3526 }
3527
3528 \bidi@AfterFile{beamerouterthememsplit-xetex-bidi.def}{%
3529   \setbeamertemplate{footline}[infolines theme]%
3530 }
3531

```

### 35 File beamerouterthememetropolis-xetex-bidi.def

```

3532 \ProvidesFile{beamerouterthememetropolis-xetex-bidi.def}[2022/06/13 v0.1 bidi adaptations fo
3533 \setbeamertemplate{progress bar in head/foot}{
3534   \nointerlineskip
3535   \setlength{\metropolis@progressinheadfoot}{%
3536     \paperwidth * \ratio{\insertframenumber pt}{\inserttotalframenumber pt}}%
3537   }%
3538   \begin{beamercolorbox}[wd=\paperwidth]{progress bar in head/foot}
3539     \begin{tikzpicture}
3540       \fill[bg] (0,0) rectangle (\paperwidth, \metropolis@progressinheadfoot@linewidth);
3541 \if@RTLmain
3542       \fill[fg] (\paperwidth-\metropolis@progressinheadfoot,0) rectangle (\paperwidth, \metr
3543 \else
3544       \fill[fg] (0,0) rectangle (\metropolis@progressinheadfoot, \metropolis@progressinheadf
3545 \fi
3546     \end{tikzpicture}%
3547   \end{beamercolorbox}
3548 }
3549
3550 \AtBeginDocument{%
3551   \setbeamertemplate{frametitle}[plain]%
3552 }
3553
3554

```

### 36 File beamerouterthememiniframes-xetex-bidi.def

```

3555 \ProvidesFile{beamerouterthememiniframes-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3556 \bidi@csundef{beamer@tmpop@headline@miniframes theme}
3557
3558 \defbeamertemplate*{headline}{miniframes theme}
3559 {%
3560   \begin{beamercolorbox}[colsep=1.5pt]{upper separation line head}
3561   \end{beamercolorbox}
3562   \begin{beamercolorbox}{section in head/foot}
3563     \vskip2pt\if@RTL\beginR\fi\insertnavigation{\paperwidth}\if@RTL\endR\fi\vskip2pt
3564   \end{beamercolorbox}%
3565   \ifbeamer@theme@subsection%

```



```

3566 \begin{beamercolorbox}[colsep=1.5pt]{middle separation line head}
3567 \end{beamercolorbox}
3568 \if@RTL
3569 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3570 rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3571 \else
3572 \begin{beamercolorbox}[ht=2.5ex,dp=1.125ex,%
3573 leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3574 \fi
3575 \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3576 \end{beamercolorbox}%
3577 \fi%
3578 \begin{beamercolorbox}[colsep=1.5pt]{lower separation line head}
3579 \end{beamercolorbox}
3580 }
3581
3582

```

### 37 File beamerouterthemesidebar-xetex-bidi.def

```

3583 \ProvidesFile{beamerouterthemesidebar-xetex-bidi.def}[2022/06/07 v0.2 bidi adaptations for b
3584 \bidi@csundef{beamer@@tmpop@frametitle@sidebar theme}
3585
3586 \bidi@csundef{beamer@@tmpop@headline@sidebar theme}
3587
3588 \bidi@csundef{beamer@@tmpop@sidebar left@sidebar theme}
3589
3590 \bidi@csundef{beamer@@tmpop@sidebar right@sidebar theme}
3591
3592 \ifdim\beamer@headheight>0pt
3593
3594 \defbeamertemplate*{frametitle}{sidebar theme}
3595 {%
3596 \nointerlineskip%
3597 \ifbeamer@plainframe%
3598 \hbox{\usebeamercolor[bg]{frametitle}%
3599 \@tempdima\paperwidth\advance\@tempdima-\beamer@sidebarwidth
3600 \hskip-\beamer@leftmargin\vrule height\beamer@headheight width\@tempdima\hskip-\beam
3601 \nointerlineskip%
3602 \fi%
3603 \vskip-\beamer@headheight%
3604 \vbox to \beamer@headheight{%
3605 \vfil
3606 \bidi@beamer@leftskip=-\beamer@leftmargin%
3607 \advance\bidi@beamer@leftskip by0.3cm%
3608 \bidi@beamer@rightskip=-\beamer@rightmargin%
3609 \advance\bidi@beamer@rightskip by0.3cm plus1fil%
3610 {\usebeamercolor[fg]{frametitle}\usebeamerfont{frametitle}\strut\insertframetitle\par}
3611 \ifx\insertframesubtitle@empty\else%
3612 {\usebeamercolor[fg]{framesubtitle}\usebeamerfont{framesubtitle}\strut\insertframesu
3613 \fi%
3614 \vbox{}}%
3615 \vskip-1em%
3616 \vfil

```



```

3617     }%
3618 }
3619
3620 \AtBeginDocument{%
3621   \setbeamertemplate{frametitle}[sidebar theme]%
3622 }
3623
3624 \defbeamertemplate*{headline}{sidebar theme}
3625 {%
3626   \begin{beamercolorbox}[wd=\paperwidth]{frametitle}
3627     \ifx\beamer@sidebarside\beamer@lefttext%
3628     \else%
3629       \hfill%
3630     \fi%
3631     \ifdim\beamer@sidebarwidth>0pt%
3632       \bgroup
3633       \usebeamercolor[bg]{logo}%
3634       \if@RTLmain
3635       \else
3636         \vrule width\beamer@sidebarwidth height \beamer@headheight%
3637         \hskip-\beamer@sidebarwidth%
3638       \fi
3639       \hbox to \beamer@sidebarwidth{\hss\vbox to
3640         \beamer@headheight{\vss\hbox{{\color{fg}\insertlogo}}\vss}\hss}%
3641       \if@RTLmain
3642         \hskip-\beamer@sidebarwidth%
3643         \vrule width\beamer@sidebarwidth height \beamer@headheight%
3644       \fi
3645       \egroup
3646     \else%
3647       \vrule width0pt height \beamer@headheight%
3648     \fi%
3649   \end{beamercolorbox}
3650 }
3651 \fi
3652
3653 \def\beamer@sidebarformat#1#2#3{%
3654 \if@RTL
3655   \begin{beamercolorbox}[wd=\beamer@sidebarwidth,rightskip=#1,leftskip=1ex plus1fil,vmode]{#
3656 \else
3657   \begin{beamercolorbox}[wd=\beamer@sidebarwidth,leftskip=#1,rightskip=1ex plus1fil,vmode]{#
3658 \fi
3659   \vbox{}%
3660   #3\par%
3661   \vbox{}%
3662   \vskip-1.5ex%
3663 \end{beamercolorbox}
3664 }
3665
3666 \ifdim\beamer@sidebarwidth>0pt
3667
3668 \AtBeginDocument{%
3669   \setbeamersize{sidebar width \beamer@sidebarside=\beamer@sidebarwidth}%
3670 }

```



```

3671
3672 \defbeamertemplate*{sidebar \beamer@sidebarside}{sidebar theme}
3673 {
3674   \beamer@tempdim=\beamer@sidebarwidth%
3675   \advance\beamer@tempdim by -6pt%
3676   {\usebeamerfont{title in sidebar}%
3677     \vskip1.5em%
3678     \hskip3pt%
3679     \bgroup
3680     \usebeamercolor[fg]{title in sidebar}%
3681     \insertshorttitle[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3682     \vskip1.25em%
3683   }%
3684   {%
3685     \hskip3pt%
3686     \bgroup
3687     \usebeamercolor[fg]{author in sidebar}%
3688     \usebeamerfont{author in sidebar}%
3689     \insertshortauthor[width=\beamer@tempdim,center,respectlinebreaks]\egroup\par%
3690     \vskip1.25em%
3691   }%
3692   \insertverticalnavigation{\beamer@sidebarwidth}%
3693   \vfill
3694   \ifx\beamer@sidebarside\beamer@lefttext%
3695   \else%
3696     \usebeamercolor{normal text}%
3697     \llap{\usebeamertemplate***{navigation symbols}\hskip0.1cm}%
3698     \vskip2pt%
3699   \fi%
3700 }%
3701 \fi
3702

```

### 38 File beamerouterthemesplit-xetex-bidi.def

```

3703 \ProvidesFile{beamerouterthemesplit-xetex-bidi.def}[2022/06/09 v0.2 bidi adaptations for bea
3704 \bidi\csundef{beamer@tmpop@footline@split theme}
3705
3706 \defbeamertemplate*{footline}{split theme}
3707 {%
3708   \leavevmode%
3709   \hbox{\if@RTL\begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm pl
3710 \else
3711 \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm plus1fill,rightski
3712 \fi
3713   \usebeamerfont{author in head/foot}\insertshortauthor
3714   \end{beamercolorbox}%
3715   \if@RTL
3716     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,rightskip=.3cm,leftskip=.3cm
3717 \else
3718     \begin{beamercolorbox}[wd=.5\paperwidth,ht=2.5ex,dp=1.125ex,leftskip=.3cm,rightskip=.3cm p
3719 \fi
3720   \usebeamerfont{title in head/foot}\insertshorttitle\nobreak\hfill\bgroup\usebeamercolor[
3721   \end{beamercolorbox}}%

```



```

3722 \vskip0pt%
3723 }
3724
3725

```

### 39 File beamerouterthemeshadow-xetex-bidi.def

```

3726 \ProvidesFile{beamerouterthemeshadow-xetex-bidi.def}[2022/06/11 v0.3 bidi adaptations for be
3727 \pgfdeclarehorizontalshading[frametitle.bg,frametitle right.bg]{bidi@beamer@RTL@frametitlesh
3728 color(0pt)=(frametitle right.bg);
3729 color(\paperwidth)=(frametitle.bg)
3730 }
3731
3732 \newcommand*{\bidi@beamer@frametitlesshade}{%
3733 \if@RTLmain
3734 \pgfuses shading{bidi@beamer@RTL@frametitlesshade}%
3735 \else
3736 \pgfuses shading{beamer@frametitlesshade}%
3737 \fi
3738 }
3739
3740 \bidi@csundef{beamer@@tmpop@frametitle@shadow theme}
3741
3742 \defbeamertemplate*{frametitle}{shadow theme}
3743 {%
3744 \nointerlineskip%
3745 \vskip-2pt%
3746 \hbox{\leavevmode
3747 \advance\beamer@leftmargin by -12bp%
3748 \advance\beamer@rightmargin by -12bp%
3749 \beamer@tempdim=\textwidth%
3750 \advance\beamer@tempdim by \beamer@leftmargin%
3751 \advance\beamer@tempdim by \beamer@rightmargin%
3752 \hskip-\Gm@lmargin\hbox{%
3753 \setbox\beamer@tempbox=\hbox{\begin{minipage}[b]{\paperwidth}%
3754 \vbox{\vskip-.75ex%
3755 \bidi@beamer@leftskip0.3cm%
3756 \bidi@beamer@rightskip0.3cm plus1fil\leavevmode
3757 \bgroup\usebeamerfont{fg}{frametitle}\usebeamerfont{frametitle}\strut\insertframe
3758 \ifx\insertframesubtitle\@empty\else%
3759 {\usebeamerfont*{framesubtitle}{\usebeamerfont{fg}{framesubtitle}\insertframesu
3760 \fi%
3761 \nointerlineskip
3762 \vbox{}}%
3763 \end{minipage}}%
3764 \beamer@tempdim=\ht\beamer@tempbox%
3765 \advance\beamer@tempdim by 2pt%
3766 \begin{pgfpicture}{0pt}{0pt}{\paperwidth}{\beamer@tempdim}
3767 \begin{pgfscope}
3768 \pgfsetfillcolor{black}%
3769 \pgfpathrectangle{\pgfpoint{0pt}{-4pt}}{\pgfpoint{\paperwidth}{8pt}}%
3770 \pgfsetfading{beamer@topshadowmask}{}%
3771 \pgfusepath{fill}%
3772 \end{pgfscope}

```



```

3773     \begin{pgfscope}
3774         \usebeamercolor{frametitle right}%
3775         \pgfpathrectangle{\pgfpointorigin}{\pgfpoint{\paperwidth}{\beamer@tempdim}}%
3776         \pgfusepath{clip}%
3777         \pgftext[left,base]{\bidi@beamer@frametitleshade}%
3778     \end{pgfscope}
3779 \end{pgfpicture}
3780 \hskip-\paperwidth%
3781 \box\beamer@tempbox%
3782 }%
3783 \hskip-\Gm@rmargin%
3784 }%
3785 \vskip-2pt
3786 }
3787
3788 \AtBeginDocument{%
3789   \setbeamertemplate{frametitle}[shadow theme]%
3790 }
3791
3792

```

## 40 File beamerouterthemesmoothbars-xetex-bidi.def

```

3793 \ProvidesFile{beamerouterthemesmoothbars-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for]
3794 \bidi@csundef{beamer@tmpop@headline@smoothbars theme}
3795
3796 \bidi@csundef{beamer@tmpop@frametitle@smoothbars theme}
3797
3798 \defbeamertemplate*{headline}{smoothbars theme}
3799 {%
3800   \pgfuseshading{beamer@barshade}%
3801   \vskip-0.05ex%
3802   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3803   \begin{pgfpicture}
3804     \begin{pgfscope}%
3805       \ifbeamer@sb@subsection%
3806         \pgfsetfillcolor{subsection in head/foot.bg}%
3807       \else%
3808         \pgfsetfillcolor{section in head/foot.bg}%
3809       \fi%
3810       \pgfpathrectangle{\pgfpoint{-0.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3811       \pgfsetfading{beamer@belowframetitlemask}{}%
3812       \pgfusepath{fill}%
3813     \end{pgfscope}%
3814   \end{pgfpicture}%
3815   \end{beamercolorbox}%
3816   \ifbeamer@sb@subsection%
3817     \vskip-9.75ex%
3818   \else%
3819     \vskip-6.85ex%
3820   \fi%
3821   \begin{beamercolorbox}[ignorebg,ht=2.25ex,dp=3.75ex]{section in head/foot}
3822     \insertnavigation{\paperwidth}
3823   \end{beamercolorbox}%

```



```

3824 \ifbeamer@sb@subsection%
3825 \if@RTL
3826   \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3827     rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3828   \else
3829     \begin{beamercolorbox}[ignorebg,ht=2.125ex,dp=1.125ex,%
3830       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3831   \fi
3832   \usebeamerfont{subsection in head/foot}\insertsubsectionhead
3833   \end{beamercolorbox}%
3834 \fi%
3835 }%
3836
3837 \defbeamertemplate*{frametitle}{smoothbars theme}
3838 {%
3839   \nointerlineskip%
3840   \vskip-0.19ex%
3841   \usebeamerfont{headline}%
3842   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=1ex,vmode]{empty}
3843     \pgfuses shading{beamer@aboveframetitle}%
3844   \end{beamercolorbox}%
3845   \vskip-1ex%
3846   \nointerlineskip%
3847   \if@RTL
3848     \begin{beamercolorbox}[wd=\paperwidth,rightskip=.3cm,leftskip=.3cm plus1fil,vmode]{frameti
3849   \else
3850     \begin{beamercolorbox}[wd=\paperwidth,leftskip=.3cm,rightskip=.3cm plus1fil,vmode]{frameti
3851   \fi
3852     \vskip0.5ex%
3853     \usebeamerfont*{frametitle}\strut\insertframetitle%
3854     \ifx\insertframesubtitle\@empty%
3855       \strut\par%
3856     \else
3857       \par{\usebeamerfont*{framesubtitle}{\usebeamercolor{fg}{framesubtitle}\strut\insertf
3858     \fi%%
3859     \usebeamerfont{headline}%
3860     \vskip0.05ex%
3861   \end{beamercolorbox}%
3862   \nointerlineskip%
3863   \vskip-0.05ex%
3864   \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3865   \begin{pgfpicture}
3866     \begin{pgfscope}%
3867       \pgfsetfillcolor{frametitle.bg}%
3868       \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3869       \pgfsetfading{beamer@belowframetitlemask}{}%
3870       \pgfusepath{fill}%
3871     \end{pgfscope}%
3872   \end{pgfpicture}%
3873   \end{beamercolorbox}%
3874 }
3875
3876 \AtBeginDocument{%
3877   \setbeamertemplate{frametitle}[smoothbars theme]%

```



```

3878 }
3879
3880

```

## 41 File beamerouterthemesmoothtree-xetex-bidi.def

```

3881 \ProvidesFile{beamerouterthemesmoothtree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations fo
3882 \bidi\csundef{beamer@tmpop@headline@smoothtree theme}
3883
3884 \bidi\csundef{beamer@tmpop@frametitle@smoothtree theme}
3885
3886 \defbeamerteremplate*{headline}{smoothtree theme}
3887 {%
3888   \pgfuses shading{beamer@treeshade}%
3889   \vskip-0.05ex%
3890   \begin{beamer colorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3891   \begin{pgf picture}
3892     \begin{pgf scope}%
3893       \pgfset fillcolor{subsection in head/foot.bg}%
3894       \pgfpath rectangle{\pgfpoint{- .5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3895       \pgfset fading{beamer@belowframetitlemask}{}%
3896       \pgfuse path{fill}%
3897     \end{pgf scope}%
3898   \end{pgf picture}%
3899   \end{beamer colorbox}%
3900   \vskip-9.15ex%
3901   \if@RTL
3902     \begin{beamer colorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3903       rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3904   \else
3905     \begin{beamer colorbox}[wd=\paperwidth,ht=1.125ex,dp=1.125ex,ignorebg,%
3906       leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3907     \fi
3908     \usebeamerfont{title in head/foot}\insertshorttitle
3909   \end{beamer colorbox}
3910   \if@RTL
3911     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3912       rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3913   \else
3914     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3915       leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3916     \fi
3917     \usebeamerfont{section in head/foot}%
3918     \hskip6pt\insertsectionhead
3919   \end{beamer colorbox}
3920   \if@RTL
3921     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3922       rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
3923   \else
3924     \begin{beamer colorbox}[wd=\paperwidth,ht=2.125ex,dp=1.125ex,ignorebg,%
3925       leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
3926     \fi
3927     \usebeamerfont{subsection in head/foot}%
3928     \hskip12pt\insertsubsectionhead

```





```

3929 \end{beamercolorbox}
3930 \vskip-0.4ex%
3931 }
3932
3933 \defbeamertemplate*{frametitle}{smoothtree theme}
3934 {%
3935 \nointerlineskip%
3936 \vskip-0.05ex%
3937 \usebeamerfont{headline}%
3938 \begin{beamercolorbox}[wd=\paperwidth,ht=0.85ex,dp=0ex]{empty}
3939 \pgfuses shading{beamer@aboveframetitle}%
3940 \end{beamercolorbox}
3941 \nointerlineskip%
3942 \if@RTL
3943 \begin{beamercolorbox}[wd=\paperwidth,rightskip=.935cm,leftskip=.3cm plus1fil]{frametitle}
3944 \else
3945 \begin{beamercolorbox}[wd=\paperwidth,leftskip=.935cm,rightskip=.3cm plus1fil]{frametitle}
3946 \fi
3947 \vskip-1.2ex%
3948 \usebeamerfont*{frametitle}\strut\insertframetitle%
3949 \ifx\insertframesubtitle\@empty%
3950 \strut\par%
3951 \else
3952 \par{\usebeamerfont*{framesubtitle}{\usebeamercolor[fg]{framesubtitle}\strut\insertframesubtitle}%
3953 \fi%%
3954 \usebeamerfont{headline}%
3955 \end{beamercolorbox}%
3956 \nointerlineskip
3957 \vskip-0.2ex%
3958 \begin{beamercolorbox}[wd=\paperwidth,ht=1ex,dp=0ex]{empty}
3959 \begin{pgfpicture}
3960 \begin{pgfscope}%
3961 \pgfsetfillcolor{frametitle.bg}%
3962 \pgfpathrectangle{\pgfpoint{-.5\paperwidth}{-0.5ex}}{\pgfpoint{\paperwidth}{1ex}}%
3963 \pgfsetfading{beamer@belowframetitlemask}{}%
3964 \pgfusepath{fill}%
3965 \end{pgfscope}%
3966 \end{pgfpicture}%
3967 \end{beamercolorbox}%
3968 }
3969
3970
3971 \AtBeginDocument{%
3972 \setbeamertemplate{frametitle}[smoothtree theme]%
3973 }
3974
3975

```

## 42 File beamerouterthemetree-xetex-bidi.def

```

3976 \ProvidesFile{beamerouterthemetree-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beam
3977 \bidi@csundef{beamer@tmpop@headline@tree theme}
3978
3979 \defbeamertemplate*{headline}{tree theme}

```



```

3980 {%
3981   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{upper separation line head}
3982   \end{beamercolorbox}
3983   \if@RTL
3984   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3985     rightskip=.3cm,leftskip=.3cm plus1fil]{title in head/foot}
3986   \else
3987   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3988     leftskip=.3cm,rightskip=.3cm plus1fil]{title in head/foot}
3989   \fi
3990   \usebeamerfont{title in head/foot}\insertshorttitle
3991   \end{beamercolorbox}
3992   \if@RTL
3993   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3994     rightskip=.3cm,leftskip=.3cm plus1fil]{section in head/foot}
3995   \else
3996   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
3997     leftskip=.3cm,rightskip=.3cm plus1fil]{section in head/foot}
3998   \fi
3999   \usebeamerfont{section in head/foot}%
4000   \ifbeamer@tree@showhooks
4001     \setbox\beamer@tempbox=\hbox{\insertsectionhead}%
4002     \ifdim\wd\beamer@tempbox>1pt%
4003       \hskip2pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.4pt}
4004       \hskip1pt%
4005     \fi%
4006   \else%
4007     \hskip6pt%
4008   \fi%
4009   \insertsectionhead
4010   \end{beamercolorbox}
4011   \if@RTL
4012   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4013     rightskip=.3cm,leftskip=.3cm plus1fil]{subsection in head/foot}
4014   \else
4015   \begin{beamercolorbox}[wd=\paperwidth,ht=2.5ex,dp=1.125ex,%
4016     leftskip=.3cm,rightskip=.3cm plus1fil]{subsection in head/foot}
4017   \fi
4018   \usebeamerfont{subsection in head/foot}%
4019   \ifbeamer@tree@showhooks
4020     \setbox\beamer@tempbox=\hbox{\insertsubsectionhead}%
4021     \ifdim\wd\beamer@tempbox>1pt%
4022       \hskip9.4pt\raise1.9pt\hbox{\vrule width0.4pt height1.875ex\vrule width 5pt height0.4pt}
4023       \hskip1pt%
4024     \fi%
4025   \else%
4026     \hskip12pt%
4027   \fi%
4028   \insertsubsectionhead
4029   \end{beamercolorbox}
4030   \begin{beamercolorbox}[wd=\paperwidth,colsep=1.5pt]{lower separation line head}
4031   \end{beamercolorbox}
4032 }
4033

```



4034

### 43 File beamerthemeHannover-xetex-bidi.def

```
4035 \ProvidesFile{beamerthemeHannover-xetex-bidi.def}[2022/06/07 v0.1 bidi adaptations for beamer]
4036 \AtBeginDocument{%
4037   \if@RTLmain
4038     \setbeamertemplate{frametitle}[default][left]%
4039   \else
4040     \setbeamertemplate{frametitle}[default][right]%
4041   \fi
4042 }
4043
4044
```

### 44 File beamerthemeSingapore-xetex-bidi.def

```
4045 \ProvidesFile{beamerthemeSingapore-xetex-bidi.def}[2022/06/09 v0.1 bidi adaptations for beamer]
4046 \addtoheadtemplate{\pgfuses shading{beamer@headfade}\vskip-1.25cm}{%
4047
4048 \beamertemplatedotitem
4049
4050 \AtBeginDocument{%
4051   \setbeamertemplate{frametitle}[default][center]%
4052 }
4053
4054
```

### 45 File bidi.sty

```
4055 \NeedsTeXFormat{LaTeX2e}
4056 \def\bididate{2025/09/03}
4057 \def\bidi@version{25.09.03}
4058 \def\bidi@releasename{Iran}
4059 \newcommand*{\bidi@releasename}{\bidi@releasename}
4060 \ProvidesPackage{bidi}[\bididate\space v\bidi@version\space (Release \bidi@releasename)\space
4061 Bidirectional typesetting in plain TeX and LaTeX]
4062 \newif\if@bidi@banner
4063 \newif\if@bidi@pdfbanner
4064 \newif\if@bidi@debug
4065 \newif\if@extrafootnote@features
4066 \newif\if@nonlatin
4067 \newif\if@bidi@pdfmark
4068 \newif\if@bidi@perpage@footnote
4069 \ExplSyntaxOn
4070 \msg_new:nnn {bidi} {cannot-use-engine}
4071 {
4072   Oops!~can~not~use~\c_sys_engine_str.\\\
4073   The~bidi~package~requires~XeTeX.
4074 }
4075 \sys_if_engine_xetex:F
4076 {
4077   \msg_fatal:nn {bidi} {cannot-use-engine}
4078 }
```



```

4079
4080 \keys_define:nn { bidi }
4081 {
4082   banner .choice: ,
4083   banner / on .code:n = \@bidi@bannertrue ,
4084   banner / off .code:n = \@bidi@bannerfalse ,
4085   banner .default:n = on
4086 }
4087 \keys_define:nn { bidi }
4088 {
4089   PDFbanner .choice: ,
4090   PDFbanner / on .code:n = \@bidi@pdfbannertrue ,
4091   PDFbanner / off .code:n = \@bidi@pdfbannerfalse ,
4092   PDFbanner .default:n = on
4093 }
4094 \keys_define:nn { bidi }
4095 {
4096   RTLdocument .choice: ,
4097   RTLdocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4098   RTLdocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4099   RTLdocument .default:n = on
4100 }
4101 \keys_define:nn { bidi }
4102 {
4103   rldocument .choice: ,
4104   rldocument / on .code:n = \AtEndOfPackage{\@RTLtrue} ,
4105   rldocument / off .code:n = \AtEndOfPackage{\@RTLfalse} ,
4106   rldocument .default:n = on
4107 }
4108 \keys_define:nn { bidi }
4109 {
4110   documentdirection .choice: ,
4111   documentdirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtrue} ,
4112   documentdirection / lefttoright .code:n = \AtEndOfPackage{\@RTLfalse}
4113 }
4114 \keys_define:nn { bidi }
4115 {
4116   tabledirection .choice: ,
4117   tabledirection / righttoleft .code:n = \AtEndOfPackage{\@RTLtabtrue} ,
4118   tabledirection / lefttoright .code:n = \AtEndOfPackage{\@RTLtabfalse}
4119 }
4120 \keys_define:nn { bidi }
4121 {
4122   footnotedirection .choice: ,
4123   footnotedirection / righttoleft .code:n = \AtEndOfPackage{\@RTL@footnotetrue} ,
4124   footnotedirection / lefttoright .code:n = \AtEndOfPackage{\@RTL@footnotefalse}
4125 }
4126 \keys_define:nn { bidi }
4127 {
4128   debugfootnotedirection .choice: ,
4129   debugfootnotedirection / on .code:n = \footdir@debugtrue ,
4130   debugfootnotedirection / off .code:n = \footdir@debugfalse ,
4131   debugfootnotedirection .default:n = on
4132 }

```



```

4133 \keys_define:nn { bidi }
4134 {
4135   footnoterule .choice: ,
4136   footnoterule / automatic .code:n = \AtEndOfPackage{\autofootnoterule} ,
4137   footnoterule / left .code:n = \AtEndOfPackage{\leftfootnoterule} ,
4138   footnoterule / right .code:n = \AtEndOfPackage{\rightfootnoterule} ,
4139   footnoterule / split .code:n = \AtEndOfPackage{\SplitFootnoteRule} ,
4140   footnoterule / textwidth .code:n = \AtEndOfPackage{\textwidthfootnoterule}
4141 }
4142 \keys_define:nn { bidi }
4143 {
4144   extrafootnotefeatures .choice: ,
4145   extrafootnotefeatures / on .code:n = \@extrafootnotefeaturestrue ,
4146   extrafootnotefeatures / off .code:n = \@extrafootnotefeaturesfalse ,
4147   extrafootnotefeatures .default:n = on
4148 }
4149 \keys_define:nn { bidi }
4150 {
4151   script .choice: ,
4152   script / latin .code:n = \@nonlatinfalse ,
4153   script / nonlatin .code:n = \@nonlatintrue ,
4154   script .default:n = latin
4155 }
4156 \keys_define:nn { bidi }
4157 {
4158   DetectColumn .choice: ,
4159   DetectColumn / on .code:n =
4160     \def\bidi@firstcolumn@status@write{%
4161       \protected@write\@auxout{%
4162         {\string\bidi@column@status
4163           {1}}}%
4164     \def\bidi@lastcolumn@status@write{%
4165       \protected@write\@auxout{%
4166         {\string\bidi@column@status{2}}}%
4167   DetectColumn / off .code:n =
4168     \let\bidi@firstcolumn@status@write\relax
4169     \let\bidi@lastcolumn@status@write\relax ,
4170   DetectColumn .default:n = on
4171 }
4172 \keys_define:nn { bidi }
4173 {
4174   logo .choice: ,
4175   logo / on .code:n = \AtEndOfPackage{\AtBeginDocument{\@bidi@inslogo}} ,
4176   logo / off .code:n = \let\@bidi@logo@\@empty \let\@bidi@inslogo@\@empty ,
4177   logo .default:n = on
4178 }
4179 \keys_define:nn { bidi }
4180 {
4181   pdfinfo .choice: ,
4182   pdfinfo / on .code:n = \@bidi@pdfm@marktrue ,
4183   pdfinfo / off .code:n = \@bidi@pdfm@markfalse ,
4184   pdfinfo .default:n = on
4185 }
4186 % The 'perpagefootnote' option is documented in UK TeX FAQ at

```



```

4187% <https://texfaq.org/FAQ-footnpp> (see last paragraph)
4188\keys_define:nn { bidi }
4189 {
4190   perpagefootnote .choice: ,
4191   perpagefootnote / on .code:n = \@bidi@perpage@footnotetrue ,
4192   perpagefootnote / off .code:n = \@bidi@perpage@footnotefalse ,
4193   perpagefootnote .default:n = on
4194 }
4195\keys_set:nn { bidi }
4196 {
4197   banner = on ,
4198   PDFbanner = on ,
4199   DetectColumn = off
4200 }
4201 }
4202\ExplSyntaxOff
4203\ProcessKeyOptions
4204\edef\@bidi@info{*****^J%
4205 * ^J%
4206 * bidi package (Bidirectional typesetting with^J%
4207 * plain TeX and LaTeX formats in XeTeX and LuaTeX engines)^J%
4208 * ^J%
4209 * Description: A convenient interface for^J%
4210 * typesetting bidirectional texts in plain TeX^J%
4211 * and LaTeX. The package includes adaptations^J%
4212 * for use with many other commonly-used packages.^J%
4213 * ^J%
4214 * Copyright (c) 2007--2025 Vafa Khalighi^J%
4215 * Copyright (c) 2018--2020 bidi-tex GitHub organization^J%
4216 * ^J%
4217 * v\bidi@version\space (Release \bidi@releasename), \bididate^J%
4218 * ^J%
4219 * License: LaTeX Project Public License, version^J%
4220 * 1.3c or higher (your choice)^J%
4221 * ^J%
4222 * Location on CTAN: /macros/unicodetex/latex/bidi^J%
4223 * ^J%
4224 * Issue tracker: https://github.com/xepersian/bidi/issues^J%
4225 * ^J%
4226 * Discussions: https://github.com/xepersian/bidi/discussions^J%
4227 * ^J%
4228 * Primary author of bidi package: Vafa Khalighi.^J%
4229 * ^J%
4230 *****}
4231\edef\bidi@everyjob{\the\everyjob}
4232\if@bidi@banner
4233 \typeout{\@bidi@info}
4234 \everyjob{\bidi@everyjob\typeout{\@bidi@info}}
4235\fi
4236\newcommand*{\bidiversion}{\ensuremath\bidi@version}
4237\RequirePackage{biditytools}
4238\RequirePackage{zref-abspage}
4239\RequirePackage{auxhook}
4240\RequirePackage{ltxcmds}

```



```

4241 \eqnewif{\if@RTLmain}{\if@rlmain}
4242 \eqnewif{\if@RTL}{\if@rl}
4243 \newcommand*{\setlatin}{\@nonlatinfalse}
4244 \newcommand*{\setnonlatin}{\@nonlatintrue}
4245 \eqnewif{\if@RTLtab}{\if@tab@rl}
4246 \newif\if@hboxRconstruct
4247 \newif\if@bidi@pdfencrypt
4248 \newcommand*{\setRTLtable}{\@RTLtabtrue}
4249 \newcommand*{\setLTRtable}{\@RTLtabfalse}
4250 \newif\if@RTLMarginpar
4251 \newif\if@LTRmarginpar
4252 \newif\if@LTRbibitems
4253 \newif\if@RTLbibitems
4254 \eqnewif{\if@RTL@footnote}{\if@rl@footnote}
4255 \newif\if@bidi@list@minipage@parbox
4256 \newif\if@bidi@list@minipage@parbox@not@nob
4257 \newcommand*{\@bidi@pdfcreator}{%
4258   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
4259 }
4260 \newcommand*{\@bidi@pdfproducer}{%
4261   The bidi package, v\@bidi@version\space (Release \@bidi@releasename), \@bidi@date
4262 }
4263 \newcommand*{\@bidi@pdfcustomproperties}{%
4264   This is the bidi package, Version \@bidi@version\space (Release \@bidi@releasename),
4265   Released September 3, 2025.
4266 }
4267 \newcommand*{\@bidi@beamer@ragged}{%
4268 \@RTLmainfalse
4269 \AtBeginDocument{%
4270   \if@RTLmain\else
4271     \if@RTL\@RTLmaintrue%
4272     \else\@RTLmainfalse%
4273     \fi%
4274   \fi%
4275 }
4276 \let\n@xt=\
4277 \bidi@newrobustcmd*{\LRE}{\protect\pLRE}%
4278 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4279 \bidi@newrobustcmd*{\RLE}{\protect\pRLE}
4280 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4281 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi
4282   \errmessage{Missing left brace has been substituted}\fi \bgroup}
4283 \newinsert\@bidi@copyins@
4284 \skip\@bidi@copyins@=12\p@
4285 \dimen\@bidi@copyins@=40pc
4286 \count\@bidi@copyins@=1000
4287 \newcommand*{\@bidi@inslogo@}{\insert\@bidi@copyins@{\@bidi@logo@}}
4288 \newcommand*{\@bidi@logo@hb@xt@columnwidth}{%
4289   \if@RTLmain
4290     \if@twocolumn
4291       \hboxR to \columnwidth
4292     \else
4293       \hboxR to \textwidth
4294     \fi

```



```

4295 \else
4296   \if@twocolumn
4297     \hboxL to \columnwidth
4298   \else
4299     \hboxL to \textwidth
4300   \fi
4301 \fi
4302 }
4303 \newcommand*{\@bidi@logo}[1]{%
4304   \toks@{%
4305     \setbox\z@\hbox{%
4306       \special{%
4307         pdf:image width 50pt height 50pt (#1)%
4308       }
4309     }%
4310     \dp\z@\z@
4311     \ht\z@=50pt
4312     \wd\z@=50pt
4313     \beginL
4314       \lower20pt\box\z@
4315     \endL
4316   }%
4317   \the\toks@
4318 }
4319 \newcount\bidi@typesethour
4320 \newcount\bidi@typesetminute
4321 \bidi@typesethour=\time
4322 \divide\bidi@typesethour 60
4323 \bidi@typesetminute=-\bidi@typesethour
4324 \multiply\bidi@typesetminute 60
4325 \advance\bidi@typesetminute \time
4326 \newcommand*{\TypesetHour}{\two@digits\bidi@typesethour}
4327 \newcommand*{\TypesetMinute}{\two@digits\bidi@typesetminute}
4328 \newcommand*{\TypesetTime}{\TypesetHour:\TypesetMinute}
4329 \newcommand*{\@bidi@logo@}{%
4330   \bidi@logo@hb@xt@columnwidth
4331   {\hss\LRE{\bfseries Typeset {\today} at {\TypesetTime} by the \textsf{bidi}
4332     package\quad\@bidi@logo{bidi-logo.pdf}}}}
4333 \ExplSyntaxOn
4334 \keys_define:nn { bidi / pdfencrypt }
4335 {
4336   userpassword .code:n = \def\bidi@pdfencrypt@userpassword{#1} ,
4337   userpassword .default:n =
4338 }
4339 \keys_define:nn { bidi / pdfencrypt }
4340 {
4341   ownerpassword .code:n = \def\bidi@pdfencrypt@ownerpassword{#1} ,
4342   ownerpassword .default:n =
4343 }
4344 \keys_define:nn { bidi / pdfencrypt }
4345 {
4346   keylength .code:n = \def\bidi@pdfencrypt@keylength{#1} ,
4347   keylength .default:n = 128
4348 }

```





```

4349 \keys_define:nn { bidi / pdfencrypt }
4350 {
4351     permissionflags .code:n = \def\bidi@pdfencrypt@permissionflags{#1} ,
4352     permissionflags .default:n = 2052
4353 }
4354 \NewDocumentCommand \pdfencryptsetup {m} { \keys_set:nn { bidi / pdfencrypt } {#1} }
4355 \ExplSyntaxOff
4356 \@onlypreamble\pdfencryptsetup
4357 \input{latex-xetex-bidi.def}
4358
4359 \pdfencryptsetup{%
4360     userpassword,%
4361     ownerpassword,%
4362     keylength,%
4363     permissionflags%
4364 }
4365
4366 \if@extrafootnotefeatures
4367   \input{extrafootnotefeatures-xetex-bidi.def}
4368 \fi
4369 \newcount\bidi@digits
4370 \XeTeXinterchartokenstate=\@ne
4371 \newXeTeXintercharclass\bidi@digits@charclass
4372 \newXeTeXintercharclass\bidi@sepmark@charclass
4373 \XeTeXcharclass \bidi@sepmark@charclass
4374 \XeTeXcharclass \bidi@sepmark@charclass
4375 \bidi@digits=\0 \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digits
4376 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digits
4377 \bidi@digits=\ \loop \XeTeXcharclass \bidi@digits \bidi@digits@charclass \ifnum\bidi@digits
4378 \XeTeXinterchartoks \bidi@sepmark@charclass \bidi@digits@charclass = {\DigitsDotDashInterCh
4379 \newcommand*{\DigitsDotDashInterCharToks}{\if@nonlatin\char"200F \fi}
4380 \bidi@AtEndPreamble{%
4381   \if@bidi@perpage@footnote
4382     \RequirePackage{bidi-perpage}%
4383     \ResetCounterPerPage{footnote}%
4384   \fi
4385   \ifx\bidi@pdfencrypt@ownerpassword\bidi@empty
4386     \ifx\bidi@pdfencrypt@userpassword\bidi@empty
4387       \bidi@pdfencryptfalse
4388     \else
4389       \bidi@pdfencrypttrue
4390     \fi
4391   \else
4392     \bidi@pdfencrypttrue
4393   \fi
4394   \if@bidi@pdfencrypt
4395     \special{pdf:encrypt
4396       userpw (\bidi@pdfencrypt@userpassword)
4397       ownerpw (\bidi@pdfencrypt@ownerpassword)
4398       length \bidi@pdfencrypt@keylength
4399       perm \bidi@pdfencrypt@permissionflags
4400     }%
4401   \fi
4402 }

```



```

4403 \if@bidi@pdfbanner
4404 \if@bidi@pdfm@mark
4405   \AtEndDocument{%
4406     \special{pdf:%
4407       docinfo<<%
4408         /Creator(\@bidi@pdfcreator)%
4409         /Producer(\@bidi@pdfproducer)%
4410         /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4411         \if@bidi@csdef{\xepersian@pdfcustomproperties}{%
4412           /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4413         }{}%
4414       >>%
4415     }%
4416   }
4417 \else
4418   \AtEndDocument{%
4419     \special{pdf:%
4420       docinfo<<%
4421         /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4422         \if@bidi@csdef{\xepersian@pdfcustomproperties}{%
4423           /XEPERSIAN.Fullbanner(\@xepersian@pdfcustomproperties)%
4424         }{}%
4425       >>%
4426     }%
4427   }
4428 \fi
4429 \else
4430 \if@bidi@pdfm@mark
4431   \AtEndDocument{%
4432     \special{pdf:%
4433       docinfo<<%
4434         /Creator(\@bidi@pdfcreator)%
4435         /Producer(\@bidi@pdfproducer)%
4436       >>%
4437     }%
4438   }
4439 \fi
4440 \fi

```

## 46 File bidi.tex

```

4441 \def\bididate{2025/09/03}
4442 \catcode`\@=11
4443 \def\bidi@version{25.09.03}
4444 \def\bidi@releasename{Iran}
4445 \def\bidi@releasename{\bidi@releasename}
4446 \let \protect \relax
4447 \newlinechar`\^^J
4448 \edef\@bidi@info{*****~J%
4449 * ~J%
4450 * bidi package (Bidirectional typesetting with^^J%
4451 * plain TeX and LaTeX formats in XeTeX and LuaTeX engines)^^J%
4452 * ~J%
4453 * Description: A convenient interface for^^J%

```



```

4454 * typesetting bidirectional texts in plain TeX^^J%
4455 * and LaTeX. The package includes adaptations^^J%
4456 * for use with many other commonly-used packages.^^J%
4457 * ^^J%
4458 * Copyright (c) 2007--2025 Vafa Khalighi^^J%
4459 * Copyright (c) 2018--2020 bidi-tex GitHub organization^^J%
4460 * ^^J%
4461 * v\bidi@version\space (Release \bidi@releasename), \bididate^^J%
4462 * ^^J%
4463 * License: LaTeX Project Public License, version^^J%
4464 * 1.3c or higher (your choice)^^J%
4465 * ^^J%
4466 * Location on CTAN: /macros/unicodetex/latex/bidi^^J%
4467 * ^^J%
4468 * Issue tracker: https://github.com/xepersian/bidi/issues^^J%
4469 * ^^J%
4470 * Discussions: https://github.com/xepersian/bidi/discussions^^J%
4471 * ^^J%
4472 * Primary author of bidi package: Vafa Khalighi.^^J%
4473 * ^^J%
4474 * *****}
4475 \edef\bidi@everyjob{\the\everyjob}
4476 \message{\@bidi@info}
4477 \everyjob{\bidi@everyjob\message{\@bidi@info}}
4478 \def\bidi@version{%
4479   \relax
4480   \ifmode
4481     \bidi@version
4482   \else
4483     $\bidi@version$
4484   \fi
4485 }
4486 \input iftex.sty
4487 \RequireXeTeX
4488 \newif\if@bidi@pdfm@mark
4489 \newif\if@RTLmain
4490 \newif\if@RTL
4491 \newif\if@hboxRconstruct
4492 \newif\if@sentdir
4493 \newif\if@RTL@footnote
4494 \@RTLmainfalse
4495 \def\setRTLmain{%
4496   \if@RTLmain\else
4497     \if@RTL\@RTLmaintrue%
4498   \else\@RTLmainfalse%
4499   \fi%
4500 \fi%
4501 }
4502 \let\n@xt=\
4503 \protected\def\LRE{\protect\pLRE}%
4504 \def\pLRE{\protect\afterassignment\moreLRE \let\n@xt= }
4505 \protected\def\RLE{\protect\pRLE}
4506 \def\pRLE{\protect\afterassignment\moreRLE \let\n@xt= }
4507 \def\bracetext{\ifcat\n@xt{\else\ifcat\n@xt}\fi

```



```

4508 \errmessage{Missing left brace has been substituted}\fi \bgroup}
4509 \newinsert\@bidi@copyins@
4510 \skip\@bidi@copyins@=12\p@
4511 \dimen\@bidi@copyins@=40pc
4512 \count\@bidi@copyins@=1000
4513 \def\@bidi@inslogo@{\insert\@bidi@copyins@{\@bidi@logo@}}
4514 \def\@bidi@logo@hb@xt@{%
4515   \if@RTLmain
4516     \hboxR to
4517   \else
4518     \hboxL to
4519   \fi
4520 }
4521 \def\@bidi@logo#1{%
4522   \toks@{%
4523     \setbox\z@\hbox{%
4524       \special{%
4525         pdf:image width 50pt height 50pt (#1)%
4526       }
4527     }%
4528     \dp\z@\z@
4529     \ht\z@=50pt
4530     \wd\z@=50pt
4531     \beginL
4532     \lower20pt\box\z@
4533     \endL
4534   }%
4535   \the\toks@
4536 }
4537 \def\today{\ifcase\month\or
4538   January\or February\or March\or April\or May\or June\or
4539   July\or August\or September\or October\or November\or December\fi
4540   \space\number\day, \number\year}
4541 \def\two@digits#1{\ifnum#1<10 0\fi\number#1}
4542 \newcount\bidi@typesethour
4543 \newcount\bidi@typesetminute
4544 \bidi@typesethour=\time
4545 \divide\bidi@typesethour 60
4546 \bidi@typesetminute=-\bidi@typesethour
4547 \multiply\bidi@typesetminute 60
4548 \advance\bidi@typesetminute \time
4549 \def\TypesetHour{\two@digits\bidi@typesethour}
4550 \def\TypesetMinute{\two@digits\bidi@typesetminute}
4551 \def\TypesetTime{\TypesetHour:\TypesetMinute}
4552 \def\@bidi@logo@{\@bidi@logo@hb@xt@\hsize{\hss\LRE{\bf Typeset {\today} at {\TypesetTime} by
4553 \def\bidilogo{\@bidi@inslogo@}
4554 \def\nobidilogo{\let\@bidi@logo@\@empty \let\@bidi@inslogo@\@empty}
4555 \def\@bidi@pdfcreator{%
4556   The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4557 }
4558 \def\@bidi@pdfproducer{%
4559   The bidi package, v\bidi@version\space (Release \bidi@releasename), \bididate
4560 }
4561 \def\@bidi@pdfcustomproperties{%

```



```

4562 This is the bidi package, Version \bidi@version\space (Release \bidi@releasename),
4563 Released September 3, 2025.
4564 }
4565 \def\bidi@pdfm@mark{%
4566   \special{pdf:%
4567     docinfo<<%
4568     \if\bidi@pdfm@mark
4569       /Creator(\@bidi@pdfcreator)%
4570       /Producer(\@bidi@pdfproducer)%
4571     \fi
4572     /BIDI.Fullbanner(\@bidi@pdfcustomproperties)%
4573     >>%
4574   }%
4575 }
4576 \def\bidipdfinfoon{\@bidi@pdfm@marktrue}
4577 \def\bidipdfinfooff{\@bidi@pdfm@markfalse}
4578 \input plain-xetex-bidi.def
4579 \outer\def\bye{\bidi@pdfm@mark\par\vfill\supereject\end}
4580 \catcode~@=12
4581 \bidipdfinfoon

```

## 47 File bidi2in1.sty

```

4582 \NeedsTeXFormat{LaTeX2e}
4583 \ProvidesPackage{bidi2in1}
4584 \pagestyle{plain}
4585 \newcount\evenpage
4586 \newcount\oddpag
4587 \twocolumn
4588 \def\@oddfoot{\evenpage=\thepage%
4589 \multiply\evenpage by 2%
4590 \oddpag=\the\evenpage%
4591 \advance\oddpag by -1%
4592 \hfil\the\evenpage\hfil\hfil\the\oddpag\hfil}%
4593 \def\@evenfoot{\evenpage=\thepage%
4594 \multiply\evenpage by 2%
4595 \oddpag=\the\evenpage%
4596 \advance\oddpag by -1%
4597 \hfil\the\oddpag\hfil\hfil\the\evenpage\hfil}%
4598 \textwidth 9.49in
4599 \textheight 6.7in
4600 \columnsep 0.9in
4601 \columnseprule 0.125pt
4602 \headheight 0cm
4603 \topmargin 0in
4604 \marginparwidth 0in
4605 \marginparsep 0in
4606 \hoffset 0.05in % Corrected
4607 \voffset -0.5in %top margin space is 1.0in by default
4608 \oddsidemargin 0in
4609 \evensidemargin 0in
4610 \headsep 0cm
4611 \topskip 0cm
4612 \parskip 0.15in %

```



```

4613 \headsep 0pt
4614 \special{papersize=11.69in,8.26in}
4615 \renewcommand\maketitle{\par
4616 \begingroup
4617 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
4618 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
4619 \long\def\@makefntext##1{\parindent 1em\noindent
4620 \hb@xt@1.8em{%
4621 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
4622 \@maketitle
4623 \@thanks
4624 \endgroup
4625 \setcounter{footnote}{0}%
4626 \global\let\thanks\relax
4627 \global\let\maketitle\relax
4628 \global\let\@maketitle\relax
4629 \global\let\@thanks\@empty
4630 \global\let\@author\@empty
4631 \global\let\@date\@empty
4632 \global\let\@title\@empty
4633 \global\let\title\relax
4634 \global\let\author\relax
4635 \global\let\date\relax
4636 \global\let\and\relax
4637 }

```

## 48 File bidicode.sty

```

4638 \NeedsTeXFormat{LaTeX2e}
4639 \ProvidesPackage{bidicode}
4640 \RequirePackage{xcolor}
4641 \RequirePackage{showexpl}
4642 \definecolor{hellgelb}{rgb}{1,1,0.85}
4643 \definecolor{colKeys}{rgb}{0.2,0.4,0.8}
4644 \definecolor{colCS}{rgb}{0.2,0.4,0.8}
4645 \definecolor{colIdentifier}{rgb}{0,0,0}
4646 \definecolor{colComments}{rgb}{1,0,0}
4647 \definecolor{colString}{rgb}{0,0.5,0}
4648 \lstset{%
4649     language=[LaTeX]TeX,%
4650     float=hbp,%
4651     basicstyle=\ttfamily\small,%
4652     identifierstyle=\color{colIdentifier},%
4653     keywordstyle=\color{colKeys},%
4654     texcsstyle=\color{colCS},%
4655     stringstyle=\color{colString},%
4656     commentstyle=\color{colComments},%
4657     backgroundcolor=\color{hellgelb},%
4658     columns=flexible,%
4659     tabsize=4,%
4660     extendedchars=true,%
4661     showspace=false,%
4662     showstringspaces=false,%
4663     numbers=left,%

```



```

4664     numbersep=0.9em,%
4665     numberstyle=\tiny,%
4666     frame=single,%
4667     captionpos=b,%
4668     xleftmargin=1em,%
4669     breaklines=true,%
4670     breakautoindent=false,%
4671     breakindent=0pt,%
4672     escapeinside=**,%
4673     pos=r,%
4674     explpreset={%
4675         xleftmargin=1em,%
4676         columns=flexible,%
4677         language=[LaTeX]TeX%
4678     },%
4679     moretexcs={%
4680         bididate,%
4681         bidiversion,%
4682         deflatinfont,%
4683         defpersianfont,%
4684         ding,%
4685         endLTR,%
4686         endRTL,%
4687         false,%
4688         falsesymbol,%
4689         junicode,%
4690         lr,%
4691         LR,%
4692         LRE,%
4693         LTR,%
4694         maketitle,%
4695         Nastaliq,%
4696         newfontfamily,%
4697         Parsifont,%
4698         part,%
4699         RL,%
4700         RLE,%
4701         RTL,%
4702         RTLcases,%
4703         SepMark,%
4704         setLR,%
4705         setLTR,%
4706         setRL,%
4707         setRTL,%
4708         settextfont,%
4709         subsection,%
4710         subsubsection,%
4711         tableofcontents,%
4712         text,%
4713         theequation,%
4714         thesection,%
4715         true,%
4716         truesymbol,%
4717         XePersian,%

```



```

4718     xepersiandate,%
4719     xepersianversion%
4720 }%
4721 }
4722 \newcommand\HLON{%
4723   \gdef\lst@alloverstyle##1{%
4724     \fboxrule=0pt
4725     \fboxsep=0pt
4726     \fcolorbox{hellgelb}{hellgelb}{\bfseries\strut##1}%
4727 }}
4728 \newcommand\HLOFF{%
4729   \xdef\lst@alloverstyle##1{##1}%
4730 }
4731 \newcommand\Larg [1]{\{\normalfont\itshape#1\}/}
4732 \newcommand\Larga[1]{\$\langle$\Larg{#1}$\rangle$}
4733 \newcommand\Largb[1]{\lcb\Larg{#1}\rcb}
4734 \newcommand\Largs[1]{\lsb\Larg{#1}\rsb}
4735 \newcommand\Largr[1]{\lrb\Larg{#1}\rrb}
4736 \newcommand\LBEG[1]{\{\normalfont\ttfamily\bs{}begin\lcb#1\rcb}}
4737 \newcommand\LEND[1]{\{\normalfont\ttfamily\bs{}end\lcb#1\rcb}}
4738
4739 \DeclareRobustCommand\bs{\{\normalfont\ttfamily\symbol{92}\}}
4740 \DeclareRobustCommand\lcb{\{\normalfont\ttfamily\char`{}\}}
4741 \DeclareRobustCommand\rcb{\{\normalfont\ttfamily\char`{}\}}
4742 \DeclareRobustCommand\lsb{\{\normalfont\ttfamily[]\}}
4743 \DeclareRobustCommand\rsb{\{\normalfont\ttfamily[]\}}
4744 \DeclareRobustCommand\lrb{\{\normalfont\ttfamily{}\}}
4745 \DeclareRobustCommand\rrb{\{\normalfont\ttfamily{}\}}
4746
4747 \def\Lcs#1{\nxLcs{#1}}
4748 \def\LcsStar#1{\nxLcs{#1}\OptArg*{}}
4749 \def\nxLcs#1{\texttt{\symbol{92}#1}}
4750
4751 \def\Coordx#1{${x}_{#1}$}
4752 \def\Coordy#1{${y}_{#1}$}
4753 \def\Coordz#1{${z}_{#1}$}
4754 \def\Coord#1{\Coordx{#1},\kern 1pt\Coordy{#1}}
4755 \def\Coordn{\Coordx{n},\kern 1pt\Coordy{n}}
4756 \def\CoordIII#1{\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1}}
4757 \def\CAny{\Coordx{},\kern 1pt\Coordy{}}
4758 \def\CIIIAny{\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
4759 \def\coord#1{(\Coordx{#1},\kern 1pt\Coordy{#1})}
4760 \def\coordn{(\Coordx{n},\kern 1pt\Coordy{n})}
4761 \def\coordiii#1{(\Coordx{#1},\kern 1pt\Coordy{#1},\kern 1pt\Coordz{#1})}
4762 \def\coordx#1{(${x}_{#1}$)}
4763 \def\coordy#1{(${y}_{#1}$)}
4764 \def\coordz#1{(${z}_{#1}$)}
4765 \def\cAny{(\Coordx{},\kern 1pt\Coordy{}}
4766 \def\ciiAny{(\Coordx{},\kern 1pt\Coordy{},\kern 1pt\Coordz{}}
4767
4768 \newsavebox{\boxdef}
4769 \newenvironment{BDef}
4770   {\begin{lrbox}\boxdef
4771     \def\arraystretch{1.0}

```





```

4772     \begin{tabular}{@{}l@{}l@{}l@{}}
4773   }
4774   {\end{tabular}\end{lrbox}
4775
4776   {\BCmd\fbbox{\usebox\boxdef}\endBCmd}
4777   \aftergroup\@afterindentfalse\aftergroup\@afterheading
4778 }
4779
4780 \newenvironment{BDef*}
4781 { \begin{lrbox}\boxdef
4782   \def\arraystretch{1.0}
4783   \begin{tabular}{@{}l@{}l@{}l@{}}
4784 }
4785 {\end{tabular}\end{lrbox}
4786 {\begin{BCmd*}\fbbox{\usebox\boxdef}\end{BCmd*}}
4787 \aftergroup\@afterindentfalse\aftergroup\@afterheading
4788 }
4789 \newenvironment{BCmd*}{
4790   \@beginparpenalty-\@lowpenalty
4791   \topsep\BDefaboveskip
4792   \fbboxsep3pt
4793   \flushleft}
4794 {\@endparpenalty\@M
4795   \@topsepadd\BDefbelowskip
4796   \endflushleft}
4797
4798 \newenvironment{BCmd*}{
4799   \@beginparpenalty\@M
4800   \topsep\BDefinlineskip
4801   \fbboxsep3pt
4802   \flushleft}
4803 {\@endparpenalty5000
4804   \endflushleft}
4805
4806 \newskip\BDefaboveskip
4807 \newskip\BDefbelowskip
4808 \newskip\BDefinlineskip
4809 \setlength\BDefaboveskip{10pt plus 4pt}
4810 \setlength\BDefbelowskip{6pt}
4811 \setlength\BDefinlineskip{6pt}
4812
4813 \def\OptArgs{\colorbox{black!20}{\texttt{[Options]}}\kern1pt}
4814 \def\OptArg{\@ifnextchar*\OptArgi{\OptArgii*}}
4815 \def\OptArgi*#1{\colorbox{black!20}{\texttt{#1}}\kern1pt}
4816 \def\OptArgii*#1{\colorbox{black!20}{\texttt{[#1]}}\kern1pt}

```

## 49 File bidiftnxtra.sty

```

4817 \NeedsTeXFormat{LaTeX2e}
4818 \ProvidesPackage{bidiftnxtra}
4819 \newtoks\bidip@ftn
4820 \let\FN@sffootnote\footnote
4821 \let\FN@sffootnote\LTRfootnote
4822 \let\FN@sffootnote\RTLfootnote

```



```

4823 \def\footnote{\ifx\protect\@typeset@protect
4824   \expandafter\FN@sfi@footnote
4825   \else
4826     \expandafter\FN@sfi@gobble@opt
4827   \fi
4828 }
4829 \def\LTRfootnote{\ifx\protect\@typeset@protect
4830   \expandafter\FN@sfi@LTRfootnote
4831   \else
4832     \expandafter\FN@sfi@gobble@opt
4833   \fi
4834 }
4835 \def\RTLfootnote{\ifx\protect\@typeset@protect
4836   \expandafter\FN@sfi@RTLfootnote
4837   \else
4838     \expandafter\FN@sfi@gobble@opt
4839   \fi
4840 }
4841 \edef\FN@sfi@gobble@opt{\noexpand\protect
4842   \expandafter\noexpand\csname FN@sfi@gobble@opt \endcsname}
4843 \expandafter\def\csname FN@sfi@gobble@opt \endcsname{%
4844   \ifnextchar[%]
4845     \FN@sfi@gobble@twobracket
4846     \gobble
4847   }
4848 \def\FN@sfi@gobble@twobracket[#1]#2{}
4849 \let\FN@sfi@footnotemark\footnotemark
4850 \def\footnotemark{\ifx\protect\@typeset@protect
4851   \expandafter\FN@sfi@footnotemark
4852   \else
4853     \expandafter\FN@sfi@gobble@optonly
4854   \fi
4855 }
4856 \edef\FN@sfi@gobble@optonly{\noexpand\protect
4857   \expandafter\noexpand\csname FN@sfi@gobble@optonly \endcsname}
4858 \expandafter\def\csname FN@sfi@gobble@optonly \endcsname{%
4859   \ifnextchar[%]
4860     \FN@sfi@gobble@bracket
4861     {}%
4862   }
4863 \def\FN@sfi@gobble@bracket[#1]{}
4864 \def\@tabular{%
4865   \leavevmode \hbox \bgroup
4866   \let\@footnotetext\bidip@ftntext
4867   \let\@LTRfootnotetext\bidip@LTRftntext
4868   \let\@RTLfootnotetext\bidip@RTLftntext
4869   \let\@xfootnotenext\bidip@xftntext
4870   \let\@xfootnote\bidip@xfootnote
4871   \let\@xLTRfootnotenext\bidip@xLTRftntext
4872   \let\@xLTRfootnote\bidip@xLTRfootnote
4873   \let\@xRTLfootnotenext\bidip@xRTLftntext
4874   \let\@xRTLfootnote\bidip@xRTLfootnote
4875   \if@RTLtab\beginR \fi
4876   $\let\@acol\@tabacol

```



```

4877 \let\@classz\@tabclassz
4878 \let\@classiv\@tabclassiv \let\@tabularcr\@tabarray}
4879 \def\endtabular{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
4880 \egroup $\if@RTLtab\endR\fi\egroup
4881 \ifx\@capttype\@undefined
4882 \global\bidip@ftn\expandafter{\expandafter}\the\bidip@ftn\fi}
4883 \long\def\bidip@ftntext#1{%
4884 \edef\@tempy{\the\bidip@ftn\noexpand\footnotetext[\the\csname c@\@mpfn\endcsname]}}%
4885 \global\bidip@ftn\expandafter{\@tempy{#1}}}%
4886 \long\def\bidip@LTRftntext#1{%
4887 \edef\@tempyi{\the\bidip@ftn\noexpand\LTRfootnotetext[\the\csname c@\@mpfn\endcsname]}}%
4888 \global\bidip@ftn\expandafter{\@tempyi{#1}}}%
4889 \long\def\bidip@RTLftntext#1{%
4890 \edef\@tempyii{\the\bidip@ftn\noexpand\RTLfootnotetext[\the\csname c@\@mpfn\endcsname]}}%
4891 \global\bidip@ftn\expandafter{\@tempyii{#1}}}%
4892
4893
4894 \long\def\bidip@xftntext[#1]#2{%
4895 \global\bidip@ftn\expandafter{\the\bidip@ftn\footnotetext[#1]{#2}}}
4896
4897 \long\def\bidip@xLTRftntext[#1]#2{%
4898 \global\bidip@ftn\expandafter{\the\bidip@ftn\LTRfootnotetext[#1]{#2}}}
4899
4900 \long\def\bidip@xRTLftntext[#1]#2{%
4901 \global\bidip@ftn\expandafter{\the\bidip@ftn\RTLfootnotetext[#1]{#2}}}
4902
4903
4904 \def\bidip@xfootnote[#1]{%
4905 \begingroup
4906 \csname c@\@mpfn\endcsname #1\relax
4907 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4908 \endgroup
4909 \@footnotemark\bidip@xftntext[#1]}
4910
4911
4912 \def\bidip@xLTRfootnote[#1]{%
4913 \begingroup
4914 \csname c@\@mpfn\endcsname #1\relax
4915 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4916 \endgroup
4917 \@footnotemark\bidip@xLTRftntext[#1]}
4918
4919
4920 \def\bidip@xRTLfootnote[#1]{%
4921 \begingroup
4922 \csname c@\@mpfn\endcsname #1\relax
4923 \unrestored@protected@xdef\@thefnmark{\thempfn}%
4924 \endgroup
4925 \@footnotemark\bidip@xRTLftntext[#1]}
4926
4927 \def\@xfloat #1[#2]{%
4928 \@nodocument
4929 \def \@capttype {#1}%
4930 \def \@fps {#2}%

```



```

4931 \@onelevel@sanitize \@fps
4932 \def \reserved@b {!}%
4933 \ifx \reserved@b \@fps
4934   \@fpsadddefault
4935 \else
4936   \ifx \@fps \@empty
4937     \@fpsadddefault
4938   \fi
4939 \fi
4940 \ifhmode
4941   \@bsphack
4942   \@floatpenalty -\@Mii
4943 \else
4944   \@floatpenalty-\@Miii
4945 \fi
4946 \ifinner
4947   \@parmoderr\@floatpenalty\z@
4948 \else
4949   \@next\@currbox\@freelist
4950   {%
4951     \@tempcnta \sixt@@n
4952     \expandafter \tfor \expandafter \reserved@a
4953     \expandafter :\expandafter =\@fps
4954     \do
4955     {%
4956       \if \reserved@a h%
4957         \ifodd \@tempcnta
4958         \else
4959           \advance \@tempcnta \@ne
4960         \fi
4961       \fi
4962       \if \reserved@a t%
4963         \@setfpsbit \tw@
4964       \fi
4965       \if \reserved@a b%
4966         \@setfpsbit 4%
4967       \fi
4968       \if \reserved@a p%
4969         \@setfpsbit 8%
4970       \fi
4971       \if \reserved@a !%
4972         \ifnum \@tempcnta>15
4973           \advance\@tempcnta -\sixt@@n\relax
4974         \fi
4975       \fi
4976     }%
4977     \@tempcntb \csname ftype@\@capttype \endcsname
4978     \multiply \@tempcntb \@xxxii
4979     \advance \@tempcnta \@tempcntb
4980     \global \count\@currbox \@tempcnta
4981   }%
4982   \@fltovf
4983 \fi
4984 \global \setbox\@currbox

```



```

4985 \color@vbox
4986 \normalcolor
4987 \vbox \bgroup
4988 \let\@footnotetext\@bidi@p@ftntext
4989 \let\@LTRfootnotetext\@bidi@p@LTRftntext
4990 \let\@RTLfootnotetext\@bidi@p@RTLftntext
4991 \let\@xfootnotenext\@bidi@p@xftntext
4992 \let\@xfootnote\@bidi@p@xfootnote
4993 \let\@xLTRfootnotenext\@bidi@p@xLTRftntext
4994 \let\@xLTRfootnote\@bidi@p@xLTRfootnote
4995 \let\@xRTLfootnotenext\@bidi@p@xRTLftntext
4996 \let\@xRTLfootnote\@bidi@p@xRTLfootnote
4997 \hsize\columnwidth
4998 \@parboxrestore
4999 \@floatboxreset
5000 }
5001 \def \@endfloatbox{%
5002 \par\vskip\z@skip %% \par\vskip\z@ added 15 Dec 87
5003 \@minipagefalse
5004 \outer@nobreak
5005 \egroup %% end of vbox
5006 \global\@bidi@p@ftn\expandafter{\expandafter}\the\@bidi@p@ftn
5007 \color@endbox
5008 }

```

## 50 File bidimoderncv.cls

```

5009 \NeedsTeXFormat{LaTeX2e}
5010 \ProvidesClass{bidimoderncv}
5011 \newif\if@DEBUG\@DEBUGfalse
5012 \DeclareOption{a4paper}{
5013 \setlength\paperheight{297mm}
5014 \setlength\paperwidth{210mm}}
5015 \DeclareOption{a5paper}{
5016 \setlength\paperheight{210mm}
5017 \setlength\paperwidth{148mm}}
5018 \DeclareOption{b5paper}{
5019 \setlength\paperheight{250mm}
5020 \setlength\paperwidth{176mm}}
5021 \DeclareOption{letterpaper}{
5022 \setlength\paperheight{11in}
5023 \setlength\paperwidth{8.5in}}
5024 \DeclareOption{legalpaper}{
5025 \setlength\paperheight{14in}
5026 \setlength\paperwidth{8.5in}}
5027 \DeclareOption{executivepaper}{
5028 \setlength\paperheight{10.5in}
5029 \setlength\paperwidth{7.25in}}
5030 \DeclareOption{landscape}{
5031 \setlength\@tempdima{\paperheight}
5032 \setlength\paperheight{\paperwidth}
5033 \setlength\paperwidth{\@tempdima}}
5034 \newcommand\@ptsize{}
5035 \DeclareOption{10pt}{\renewcommand\@ptsize{0}}

```



```

5036 \DeclareOption{11pt}{\renewcommand\@ptsize{1}}
5037 \DeclareOption{12pt}{\renewcommand\@ptsize{2}}
5038 \DeclareOption{draft}{\setlength\overfullrule{5pt}}
5039 \DeclareOption{final}{\setlength\overfullrule{0pt}}
5040 \newif\if@colour\@colourtrue
5041 \DeclareOption{nocolour}{\@colourfalse}
5042 \ExecuteOptions{a4paper,11pt,colour,final}
5043 \ProcessOptions\relax
5044 \input{size1\@ptsize.clo}
5045 \RequirePackage{color}
5046 \RequirePackage{graphicx}
5047 \RequirePackage{ifthen}
5048 \RequirePackage{marvosym}
5049 \addtolength{\oddsidemargin}{-54pt}
5050 \addtolength{\textwidth}{109pt}
5051 \addtolength{\topmargin}{-70pt}
5052 \addtolength{\textheight}{122pt}
5053 \addtolength{\marginparsep}{-5pt}
5054 \addtolength{\marginparwidth}{-10pt}
5055 \RequirePackage{url}
5056 \RequirePackage{hyperref}
5057 \hypersetup{%
5058   breaklinks,
5059   baseurl      = http://,%
5060   pdfborder    = 0 0 0,%
5061   pdfpagemode  = UseNone,%
5062   pdfstartpage = 1}
5063 \AtEndOfClass{%
5064   \AtBeginDocument{%
5065     \hypersetup{%
5066       pdfauthor      = \@firstname~\@familyname,%
5067       pdftitle       = \@title,%
5068       pdfsubject     = \@firstname~\@familyname,%
5069       pdfkeywords    = \@resumename~\@firstname~\@familyname}}}
5070 \urlstyle{tt}
5071 \RequirePackage{fancyhdr}
5072 \fancypagestyle{plain}{%
5073   \renewcommand{\headrulewidth}{0pt}
5074   \renewcommand{\footrulewidth}{0pt}
5075   \fancyhf{}}
5076 \pagestyle{plain}
5077 \setlength\lineskip{1\p@}
5078 \setlength\normallineskip{1\p@}
5079 \renewcommand\baselinestretch{}
5080 \setlength{\parindent}{0pt}
5081 \setlength{\parskip}{0pt}
5082 \setlength\columnsep{10\p@}
5083 \setlength\columnseprule{0\p@}
5084 \pagestyle{empty}
5085 \pagenumbering{arabic}
5086 \raggedbottom
5087 \onecolumn
5088 \providecommand*\listitemsymbol{\textbullet}
5089 \providecommand*\addresssymbol{}

```



```

5090 \providecommand*{\mobilesymbol}{\Mobilefone}
5091 \providecommand*{\phonesymbol}{\Telefon}
5092 \providecommand*{\faxsymbol}{\FAX}
5093 \providecommand*{\emailsymbol}{\Letter}
5094 \definecolor{firstnamecolour}{rgb}{0,0,0}
5095 \def\firstnamecolour#1{\gdef\@firstnamecolour{\addfontfeature{Color=#1}}}
5096 \def\familynamcolour#1{\gdef\@familynamcolour{\addfontfeature{Color=#1}}}
5097 \def\titlecolour#1{\gdef\@titlecolour{\addfontfeature{Color=#1}}}
5098 \def\addresscolour#1{\gdef\@addresscolour{\addfontfeature{Color=#1}}}
5099 \def\quotecolour#1{\gdef\@quotecolour{\addfontfeature{Color=#1}}}
5100 \def\sectiontitlecolour#1{\gdef\@sectiontitlecolour{\addfontfeature{Color=#1}}}
5101 \definecolor{sectionrectanglecolor}{rgb}{0,0,0}
5102 \def\subsectioncolour#1{\gdef\@subsectioncolour{\addfontfeature{Color=#1}}}
5103 \def\hintcolour#1{\gdef\@hintcolour{\addfontfeature{Color=#1}}}
5104 \providecommand*{\firstnamefont}{}
5105 \providecommand*{\familynamefont}{}
5106 \providecommand*{\titlefont}{}
5107 \providecommand*{\addressfont}{}
5108 \providecommand*{\quoteftfont}{}
5109 \providecommand*{\sectionfont}{}
5110 \providecommand*{\subsectionfont}{}
5111 \providecommand*{\hintfont}{\small}
5112 \providecommand*{\firstnamestyle}[1]{\{\@firstnamefont\@firstnamecolour#1}}
5113 \providecommand*{\familynamestyle}[1]{\{\@familynamefont\@familynamecolour#1}}
5114 \providecommand*{\titlestyle}[1]{\{\@titlefont\@titlecolour#1}}
5115 \providecommand*{\addresstyle}[1]{\{\@addressfont\@addresscolour#1}}
5116 \providecommand*{\quotestyle}[1]{\{\@quoteftfont\@quotecolour#1}}
5117 \providecommand*{\sectionstyle}[1]{\{\@sectionfont\@sectiontitlecolour#1}}
5118 \providecommand*{\subsectionstyle}[1]{\{\@subsectionfont\@subsectioncolour#1}}
5119 \providecommand*{\hintstyle}[1]{\{\@hintfont\@hintcolour#1}}
5120 \newcommand*{\cvtheme}[2]{}
5121 \def\@cvtheme{#2}
5122 \def\@cvthemeoptions{#1}
5123 \cvtheme{bidi-casual}
5124 \AtBeginDocument{\RequirePackage[\@cvthemeoptions]{cvtheme\@cvtheme}}
5125 \newcommand*{\resumename}[1]{\def\@resumename{#1}}
5126 \newcommand*{\firstname}[1]{\def\@firstname{#1}}
5127 \newcommand*{\familyname}[1]{\def\@familyname{#1}}
5128 \renewcommand*{\title}[1]{\def\@title{#1}}
5129 \newcommand*{\address}[1]{\def\@address{#1}}
5130 \newcommand*{\mobile}[1]{\def\@mobile{#1}}
5131 \newcommand*{\phone}[1]{\def\@phone{#1}}
5132 \renewcommand*{\fax}[1]{\def\@fax{#1}}
5133 \newcommand*{\email}[1]{\def\@email{#1}}
5134 \newcommand*{\extrainfo}[1]{\def\@extrainfo{#1}}
5135 \def\@photowidth{0pt}
5136 \newcommand*{\photo}[2][64pt]{\def\@photowidth{#1}\def\@photo{#2}}
5137 \newcommand*{\quote}[1]{\def\@quote{#1}}
5138 \newlength{\quotewidth}
5139 \newlength{\hintscolumnwidth}
5140 \newlength{\separatorcolumnwidth}
5141 \setlength{\separatorcolumnwidth}{0.025\textwidth}
5142 \newlength{\maincolumnwidth}
5143 \newlength{\doubleitemmaincolumnwidth}

```



```

5144 \newlength{\listitemsymbolwidth}
5145 \settowidth{\listitemsymbolwidth}{\listitemsymbol{}}~}
5146 \newlength{\listitemmaincolumnwidth}
5147 \newlength{\listdoubleitemmaincolumnwidth}
5148 \newcommand*{\recomputethemelengths}{}
5149 \newcommand*{\recomputelengths}{%
5150 \setlength{\quotewidth}{0.65\textwidth}%
5151 \setlength{\maincolumnwidth}{\textwidth}%
5152 \addtolength{\maincolumnwidth}{-\separatorcolumnwidth}%
5153 \addtolength{\maincolumnwidth}{-\hintscolumnwidth}%
5154 \setlength{\listitemmaincolumnwidth}{\maincolumnwidth}%
5155 \addtolength{\listitemmaincolumnwidth}{-\listitemsymbolwidth}%
5156 \setlength{\doubleitemmaincolumnwidth}{\maincolumnwidth}%
5157 \addtolength{\doubleitemmaincolumnwidth}{-\hintscolumnwidth}%
5158 \addtolength{\doubleitemmaincolumnwidth}{-\separatorcolumnwidth}%
5159 \setlength{\doubleitemmaincolumnwidth}{0.5\doubleitemmaincolumnwidth}%
5160 \setlength{\listdoubleitemmaincolumnwidth}{\maincolumnwidth}%
5161 \addtolength{\listdoubleitemmaincolumnwidth}{-\listitemsymbolwidth}%
5162 \setlength{\listdoubleitemmaincolumnwidth}{0.475\listdoubleitemmaincolumnwidth}%
5163 \renewcommand{\headwidth}{\textwidth}%
5164 \recomputethemelengths}
5165 \setlength{\hintscolumnwidth}{0.15\textwidth}
5166 \recomputelengths
5167 \title{}
5168 \renewcommand*{\maketitle}{}
5169 \newcommand*{\section}[1]{%
5170 \vspace*{2.5ex \@plus 1ex \@minus .2ex}%
5171 \phantomsection}%
5172 \addcontentsline{toc}{part}{#1}%
5173 \parbox[m]{\hintscolumnwidth}{\bidi@raggedleft\hintfont{\leavevmode\color{sectionrectangle}
5174 \hspace{\separatorcolumnwidth}%
5175 \parbox[m]{\maincolumnwidth}{\sectionstyle{#1}}\}[1ex]}
5176 \newcommand*{\subsection}[1]{%
5177 \cvline[0.45em]{\subsectionstyle{#1}}}
5178 \newcommand*{\cvline}[3][.25em]{%
5179 \begin{tabular}{@{}p{\hintscolumnwidth}@{\hspace{\separatorcolumnwidth}}p{\maincolumnwidth}
5180 \bidi@raggedleft\hintfont{#2} &{#3}%
5181 \end{tabular}}\}[#1]}
5182 \newcommand*{\cvdoubleitem}[4]{%
5183 \cvline{#1}{\begin{minipage}[t]{\doubleitemmaincolumnwidth}#2\end{minipage}}%
5184 \hfill%
5185 \begin{minipage}[t]{\hintscolumnwidth}\bidi@raggedleft\hintfont{#3}\end{minipage}\hspace*{\
5186 \newcommand*{\cvlistitem}[2][\listitemsymbol]{}%
5187 \cvline[0pt]{\begin{minipage}[t]{\listitemmaincolumnwidth}#2\end{minipage}}}
5188 \newcommand*{\cvlistdoubleitem}[3][\listitemsymbol]{}%
5189 \cvline[0pt]{\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#2\end{minipage}}%
5190 \hfill%
5191 \ifthenelse{\equal{#3}{}}{
5192 {}%
5193 {#1~\begin{minipage}[t]{\listdoubleitemmaincolumnwidth}#3\end{minipage}}}{
5194 \newcommand*{\cventry}[6]{%
5195 \cvline{#1}{%
5196 {\bfseries#2}%
5197 \ifx#3\else{, {\slshape#3}}\fi%

```





```

5198 \ifx#4\else{, #4}\fi%
5199 \ifx#5\else{, #5}\fi%
5200 .%
5201 \ifx#6\else{\newline}\begin{minipage}[t]{\linewidth}\small#6\end{minipage}}\fi
5202 }}%
5203 \newcommand*{\cvlanguage}[3]{%
5204 \cvline{#1}{\begin{minipage}[t]{.225\maincolumnwidth}\textbf{#2}\end{minipage}\hfill\begin{minipage}[t]{.775\maincolumnwidth}\textbf{#3}\end{minipage}}
5205 \newcommand*{\cvcomputer}[4]{%
5206 \cvdoubleitem{#1}{\small#2}{#3}{\small#4}}
5207 \newcommand*{\link}[2][]{%
5208 \ifthenelse{\equal{#1}{}}{%
5209 {\href{#2}{#2}}%
5210 {\href{#2}{#1}}}
5211 \newcommand*{\httplink}[2][]{%
5212 \ifthenelse{\equal{#1}{}}{%
5213 {\href{http://#2}{#2}}%
5214 {\href{http://#2}{#1}}}
5215 \newcommand*{\emailink}[2][]{%
5216 \ifthenelse{\equal{#1}{}}{%
5217 {\href{mailto:#2}{#2}}%
5218 {\href{mailto:#2}{#1}}}
5219 \newif\if@displaypagenumbers\@displaypagenumberstrue
5220 \newcommand*{\nopagenumbers}{\@displaypagenumbersfalse}
5221 \AtBeginDocument{%
5222 \if@displaypagenumbers%
5223 \ifundefined{r@lastpage}{\@displaypagenumbersfalse}%
5224 \ifthenelse{\pageref{lastpage} > 1}{%
5225 \fancypagestyle{plain}{%
5226 \fancyfoot[r]{\beginL\addressfont\@quotecolour\footnotesize\thepage\beginL\endL\pagetotal}%
5227 \pagestyle{plain}}}%
5228 \AtEndDocument{\label{lastpage}}%
5229 \fi}
5230 \newlength{\bibindent}
5231 \setlength{\bibindent}{1.5em}
5232 \newcommand*{\bibliographyitemlabel}{\includegraphics{bidi-bibitem.pdf}}
5233 \newenvironment{thebibliography}[1]{%
5234 {%
5235 \section{\refname}%
5236 \small%
5237 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
5238 \bidi@thebibliography@font@hook%
5239 \begin{list}{\bibliographyitemlabel}%
5240 {%
5241 \setlength{\topsep}{0pt}%
5242 \setlength{\labelwidth}{\hintscolumnwidth}%
5243 \setlength{\labelsep}{\separatorcolumnwidth}%
5244 \leftmargin\labelwidth%
5245 \advance\leftmargin\labelsep%
5246 \@openbib@code%
5247 \usecounter{enumiv}%
5248 \let\p@enumiv\@empty%
5249 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
5250 \sloppy\clubpenalty4000\widowpenalty4000%
5251 }%

```



```

5252 {%
5253   \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
5254   \end{list}}%
5255 }
5256 \newcommand\newblock{\hskip .11em\@plus.33em\@minus.07em}
5257 \let\@openbib@code\@empty

```

## 51 File bidi-perpage.sty

```

5258 \NeedsTeXFormat{LaTeX2e}
5259 \ProvidesPackage{bidi-perpage}[2018/10/04 v0.4 Reset counter(s) on every page]
5260 \newcount\bidi@page@count
5261 \bidi@page@count\@one
5262 \newcommand*{\ResetCounterPerPage}[2][\z@]{%
5263   \if@bidi@csundef\bidi@stepcounterhook@@#2}{%
5264     \expandafter\gdef\csname bidi@stepcounterhook@@#2\endcsname{%
5265   }}%
5266   \if@bidi@csundef\if@bidi@reset@#2@rerun}{%
5267     \expandafter\newif\csname if@bidi@reset@#2@rerun\endcsname
5268   }}%
5269   \if@bidi@csundef\bidi@#2@count}{%
5270     \expandafter\newcount\csname bidi@#2@count\endcsname
5271   }}%
5272   \csname bidi@#2@count\endcsname\z@
5273   \if@bidi@csundef\bidi@previous@page@@#2@count}{%
5274     \expandafter\newcount\csname
5275     bidi@previous@page@@#2@count\endcsname
5276   }}%
5277   \csname bidi@previous@page@@#2@count\endcsname\z@
5278   \if@bidi@csundef\bidi@reset@#2@perpage}{%
5279     \bidi@AfterEndDocumentCheckLabelsRerun{%
5280       \csname if@bidi@reset@#2@rerun\endcsname
5281       \PackageWarningNoLine{bidi-perpage}{%
5282         Counter `#2' may not have been reset per page.
5283         Rerun to reset counter `#2' per page%
5284       }}%
5285     \fi
5286   }}%
5287 }{}%
5288 \expandafter\gdef\csname bidi@reset@#2@perpage\endcsname{%
5289   \global\advance\csname bidi@#2@count\endcsname\@one
5290   \if@filesw
5291     \edef\@tempa{%
5292       \write\@auxout{%
5293         \string\bidi@counter@page{#2}%
5294         {\number\csname bidi@#2@count\endcsname}%
5295         {\noexpand\number\noexpand\bidi@page@count}%
5296       }}%
5297   }%
5298   \@tempa
5299   \fi
5300 \begingroup\expandafter\expandafter\expandafter\endgroup
5301 \expandafter\ifx\csname bidi@#2@@\number\csname
5302   bidi@#2@count\endcsname\endcsname\relax

```



```

5303 \global\csname @bidi@reset@#2@reruntrue\endcsname
5304 \else
5305 \global\csname @bidi@reset@#2@rerunfalse\endcsname
5306 \expandafter\@tempcnta\csname bidi@#2@@\number
5307 \csname bidi@#2@count\endcsname\endcsname\relax
5308 \ifnum\@tempcnta=\csname
5309 bidi@previous@page@@#2@count\endcsname
5310 \else
5311 \global\csname
5312 bidi@previous@page@@#2@count\endcsname\@tempcnta
5313 \global\csname c@#2\endcsname#1\relax
5314 \fi
5315 \fi
5316 }%
5317 \expandafter\bidi@gappto\csname
5318 bidi@stepcounterhook@@#2\endcsname{%
5319 \csname bidi@reset@#2@perpage\endcsname
5320 }%
5321 }
5322 \def\bidi@counter@page#1#2#3{\bidi@namegdef\bidi@#1@@#2}{#3}}
5323 \bidi@AtEndOutputPage{%
5324 \global\advance\bidi@page@count\@ne
5325 }

```

## 52 File biditools.sty

```

5326 \NeedsTeXFormat{LaTeX2e}
5327 \ProvidesPackage{biditools}[2025/02/02 v2.7 Programming tools for bidi package]
5328 \providecommand{\@bidi@saveprimitive}[2]{\begingroup\escapechar`\relax
5329 \edef\@tempa{\string#1}\edef\@tempb{\meaning#1}%
5330 \ifx\@tempa\@tempb \global\let#2#1%
5331 \else
5332 \edef\@tempb{\meaning#2}%
5333 \ifx\@tempa\@tempb
5334 \else
5335 \latex@error{Unable to properly define \string#2; primitive
5336 \noexpand#1no longer primitive}\@eha
5337 \fi
5338 \fi
5339 \endgroup}
5340 \newtoks\@bidi@envbody
5341 \newtoks\@bidi@emptytoks
5342 \def\bidi@addto@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5343 \def\bidi@collect@body#1{%
5344 \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5345 \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentenv}}%
5346 \@bidi@envbody\@bidi@emptytoks \def\bigin@bidi@stack{b}%
5347 \begingroup
5348 \expandafter\let\csname\@currentenv\endcsname\bidi@collect@@body
5349 \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentenv\endcsname}%
5350 \bidi@process@envbody
5351 }
5352 \def\bidi@push@begins#1\begin#2{%
5353 \ifx\end#2\else b\expandafter\bidi@push@begins\fi

```



```

5354 }
5355 \def\bidicollect@@body#1\end#2{%
5356   \edef\begin@bidi@stack{\bidi@push@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
5357   \ifx\@empty\begin@bidi@stack
5358     \endgroup
5359     \@checkend{#2}%
5360     \bidi@addto@envbody{#1}%
5361   \else
5362     \bidi@addto@envbody{#1\end{#2}}%
5363   \fi
5364   \bidi@process@envbody % A little tricky! Note the grouping
5365 }
5366 \long\def\bidi@addto@long@envbody#1{\global\@bidi@envbody\expandafter{\the\@bidi@envbody#1}}
5367 \long\def\bidicollect@long@body#1{%
5368   \@bidi@envbody{\expandafter#1\expandafter{\the\@bidi@envbody}}%
5369   \edef\bidi@process@envbody{\the\@bidi@envbody\noexpand\end{\@currentenv}}%
5370   \@bidi@envbody\@bidi@emptytoks \def\begin@bidi@stack{b}%
5371   \begingroup
5372   \expandafter\let\csname\@currentenv\endcsname\bidi@collect@long@@body
5373   \edef\bidi@process@envbody{\expandafter\noexpand\csname\@currentenv\endcsname}%
5374   \bidi@process@envbody
5375 }
5376 \long\def\bidi@push@long@begins#1\begin#2{%
5377   \ifx\end#2\else b\expandafter\bidi@push@long@begins\fi
5378 }
5379 \long\def\bidicollect@long@@body#1\end#2{%
5380   \edef\begin@bidi@stack{\bidi@push@long@begins#1\begin\end \expandafter\@gobble\begin@bidi@stack}
5381   \ifx\@empty\begin@bidi@stack
5382     \endgroup
5383     \@checkend{#2}%
5384     \bidi@addto@long@envbody{#1}%
5385   \else
5386     \bidi@addto@long@envbody{#1\end{#2}}%
5387   \fi
5388   \bidi@process@envbody % A little tricky! Note the grouping
5389 }
5390 \long\def\bidi@new@ifnextchar#1#2#3{%
5391   \let\reserved@d= #1%
5392   \def\reserved@a{#2}\def\reserved@b{#3}%
5393   \futurelet\@let@token\bidi@new@ifnch
5394 }
5395 \def\bidi@new@ifnch{%
5396   \ifx\@let@token\reserved@d \let\reserved@b\reserved@a \fi
5397   \reserved@b
5398 }
5399 \def\bidi@matrix@check#1{%
5400   \expandafter\ifx\csname\@currentenv\endcsname#1%
5401   \else\bidi@matrix@error#1%
5402     \expandafter\@gobble
5403   \fi
5404 }
5405 \def\bidi@matrix@error#1{%
5406   \PackageError{biditools}{%
5407     Old form ``\string#1' should be \string\begin{\expandafter\@gobble\string#1}%

```



```

5408 }{%
5409 `string#1{...}' is old bidi package syntax whose use is
5410 ill-advised in the old versions of bidi package.%
5411 }%
5412 }
5413 \def\eqnewif#1#2{%
5414   \count@\escapechar \escapechar\m@ne
5415   \let#1\iffalse
5416   \let#2\iffalse
5417   \eq@if#1#2\iftrue
5418   \eq@if#1#2\iffalse
5419   \escapechar\count@}
5420 \def\eq@if#1#2#3{%
5421   \expandafter\def\csname\expandafter@gobbletwo\string#1%
5422     \expandafter@gobbletwo\string#3\endcsname
5423     {\let#1#3%
5424       \let#2#3}%
5425   \expandafter\def\csname\expandafter@gobbletwo\string#2%
5426     \expandafter@gobbletwo\string#3\endcsname
5427     {\let#2#3%
5428       \let#1#3}}
5429 \def\noteqnewif#1#2{%
5430   \count@\escapechar \escapechar\m@ne
5431   \let#1\iffalse
5432   \let#2\iffalse
5433   \not@eq@if#1#2\iftrue\iffalse
5434   \escapechar\count@}
5435 \def\noteq@if#1#2#3#4{%
5436   \expandafter\def\csname\expandafter@gobbletwo\string#1%
5437     \expandafter@gobbletwo\string#3\endcsname
5438     {\let#1#3%
5439       \let#2#4}%
5440   \expandafter\def\csname\expandafter@gobbletwo\string#1%
5441     \expandafter@gobbletwo\string#4\endcsname
5442     {\let#1#4%
5443       \let#2#3}%
5444   \expandafter\def\csname\expandafter@gobbletwo\string#2%
5445     \expandafter@gobbletwo\string#3\endcsname
5446     {\let#2#3%
5447       \let#1#4}%
5448   \expandafter\def\csname\expandafter@gobbletwo\string#2%
5449     \expandafter@gobbletwo\string#4\endcsname
5450     {\let#2#4%
5451       \let#1#3}}
5452 \newcommand*{\SetBoolean}[2]{%
5453   \lowercase{\def\@tempa{#2}}%
5454   \@ifundefined{\@tempswa\@tempa}%
5455     {\PackageError{biditytools}%
5456       {You can only set a boolean to `true' or `false'}\@ehc}%
5457     {\@ifundefined{#1\@tempa}%
5458       {\PackageError{biditytools}{Boolean #1 undefined}\@ehc}%
5459       {\csname#1\@tempa\endcsname}}}%
5460 \newcommand*{\GlobalSetBoolean}[2]{%
5461   \lowercase{\def\@tempa{#2}}%

```



```

5462 \ifundefined{@tempswa\@tempa}%
5463   {\PackageError{biditools}%
5464     {You can only set a boolean to `true' or `false'}\@ehc}%
5465   {\@ifundefined{#1\@tempa}%
5466     {\PackageError{biditools}{Boolean #1 undefined}\@ehc}%
5467     {\global\csname#1\@tempa\endcsname}}}%
5468 \newcommand*{\SetatBoolean}[2]{%
5469   \lowercase{\def\@tempa{#2}}%
5470   \@ifundefined{@tempswa\@tempa}%
5471     {\PackageError{biditools}%
5472       {You can only set a boolean to `true' or `false'}\@ehc}%
5473     {\@ifundefined{@#1\@tempa}%
5474       {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5475       {\csname @#1\@tempa\endcsname}}}%
5476 \newcommand*{\GlobalSetatBoolean}[2]{%
5477   \lowercase{\def\@tempa{#2}}%
5478   \@ifundefined{@tempswa\@tempa}%
5479     {\PackageError{biditools}%
5480       {You can only set a boolean to `true' or `false'}\@ehc}%
5481     {\@ifundefined{@#1\@tempa}%
5482       {\PackageError{biditools}{Boolean @#1 undefined}\@ehc}%
5483       {\global\csname @#1\@tempa\endcsname}}}%
5484 \def\@bidi@removefromreset#1#2{%
5485   \expandafter\let\csname c@#1\endcsname\@bidi@removefromreset
5486   \def\@elt##1{%
5487     \expandafter\ifx\csname c@##1\endcsname\@bidi@removefromreset
5488       \else
5489         \noexpand\@elt{##1}%
5490       \fi}%
5491   \expandafter\xdef\csname cl@#2\endcsname{%
5492     \csname cl@#2\endcsname}}}%
5493 \newcommand*{\ifRtoL}{%
5494   \if@RTL
5495     \expandafter\@firstoftwo
5496   \else
5497     \expandafter\@secondoftwo
5498   \fi}
5499 \newcommand*{\ifLtoR}{%
5500   \if@RTL
5501     \expandafter\@secondoftwo
5502   \else
5503     \expandafter\@firstoftwo
5504   \fi}
5505 \newcommand*{\ifRtoLtable}{%
5506   \if@RTLtab
5507     \expandafter\@firstoftwo
5508   \else
5509     \expandafter\@secondoftwo
5510   \fi}
5511 \newcommand*{\ifLtoRtable}{%
5512   \if@RTLtab
5513     \expandafter\@secondoftwo
5514   \else
5515     \expandafter\@firstoftwo

```



```

5516 \fi}
5517 \newcommand*{\ifRtoLhboxconstruct}{%
5518 \if@hboxRconstruct
5519 \expandafter\@firstoftwo
5520 \else
5521 \expandafter\@secondoftwo
5522 \fi}
5523 \newcommand*{\ifLtoRhboxconstruct}{%
5524 \if@hboxRconstruct
5525 \expandafter\@secondoftwo
5526 \else
5527 \expandafter\@firstoftwo
5528 \fi}
5529 \newcommand*{\iflatin}{%
5530 \if@nonlatin
5531 \expandafter\@secondoftwo
5532 \else
5533 \expandafter\@firstoftwo
5534 \fi}
5535 \newcommand*{\ifnonlatin}{%
5536 \if@nonlatin
5537 \expandafter\@firstoftwo
5538 \else
5539 \expandafter\@secondoftwo
5540 \fi}
5541
5542 \newcommand*{\bidi@@convert@dimen@t@unit}[2]{%
5543 \strip@pt\dimexpr #1*65536/\dimexpr 1#2\relax #2}
5544
5545 \newcommand*{\bidi@@convert@dimen@t@pt}[1]{%
5546 \dimexpr #1*65536/\dimexpr 1pt\relax}
5547
5548 \newcommand*{\IfPackageVersionAtLeastTF}[1]{%
5549 \expandafter\@if@ver@pkg@least\csname #1@version\endcsname
5550 }
5551 \newcommand*{\@if@ver@pkg@least}[2]{%
5552 \ifnum\expandafter\bidi@parse@ver@#100\@nil<\expandafter\bidi@parse@ver@#200\@nil
5553 \expandafter\@secondoftwo
5554 \else
5555 \expandafter\@firstoftwo
5556 \fi
5557 }
5558 \newcommand*{\bidi@parse@ver@}[1]{\bidi@parse@ver0#1}
5559 \def\bidi@parse@ver#1.#2.#3#4#5\@nil{%
5560 \if\relax#2\relax\else#1\fi#2#3#4
5561 }
5562 \newcommand*{\IfPackageVersionAtMostTF}[1]{%
5563 \expandafter\@if@ver@pkg@most\csname #1@version\endcsname
5564 }
5565 \newcommand*{\@if@ver@pkg@most}[2]{%
5566 \ifnum\expandafter\bidi@parse@ver@#100\@nil>\expandafter\bidi@parse@ver@#200\@nil
5567 \expandafter\@secondoftwo
5568 \else
5569 \expandafter\@firstoftwo

```



```

5570 \fi
5571 }
5572 \newcommand*\IfPackageVersionTF}[1]{%
5573 \expandafter\if@ver@pkg@\csname #1@version\endcsname
5574 }
5575 \newcommand*\@if@ver@pkg@[2]{%
5576 \ifnum\expandafter\bidiparse@ver@#100\@nil=\expandafter\bidiparse@ver@#200\@nil
5577 \expandafter\@firstoftwo
5578 \else
5579 \expandafter\@secondoftwo
5580 \fi
5581 }
5582
5583 \newcommand*\if@bidi@csdef}[1]{%
5584 \ifcsname#1\endcsname
5585 \expandafter\@firstoftwo
5586 \else
5587 \expandafter\@secondoftwo
5588 \fi}
5589 \newcommand*\if@bidi@csundef}[1]{%
5590 \ifcsname#1\endcsname
5591 \expandafter\ifx\csname#1\endcsname\relax
5592 \expandafter\expandafter
5593 \expandafter\@firstoftwo
5594 \else
5595 \expandafter\expandafter
5596 \expandafter\@secondoftwo
5597 \fi
5598 \else
5599 \expandafter\@firstoftwo
5600 \fi}
5601 \newcommand*\if@bidi@def}[1]{%
5602 \ifdefined#1%
5603 \expandafter\@firstoftwo
5604 \else
5605 \expandafter\@secondoftwo
5606 \fi}
5607 \newcommand*\if@bidi@undef}[1]{%
5608 \ifdefined#1%
5609 \ifx#1\relax
5610 \expandafter\expandafter
5611 \expandafter\@firstoftwo
5612 \else
5613 \expandafter\expandafter
5614 \expandafter\@secondoftwo
5615 \fi
5616 \else
5617 \expandafter\@firstoftwo
5618 \fi}
5619 \newcommand*\if@bidi@blank}[1]{% from url.sty
5620 \bidi@ifblank@i#1&&\@secondoftwo\@firstoftwo:}
5621 \long\def\bidi@ifblank@i#1#2&#3#4#5:{#4}
5622 \newcommand*\bidi@notblank}[1]{%
5623 \bidi@ifblank@i#1&&\@firstoftwo\@secondoftwo:}

```





```

5624 \newcommand{\if@bidi@defmacro}{%
5625 \long\edef\if@bidi@defmacro#1{%
5626 \noexpand\expandafter\noexpand\bidi@ifdefmacro
5627 \noexpand\meaning#1\detokenize{macro}:&}
5628 \edef\bidi@ifdefmacro{%
5629 \def\noexpand\bidi@ifdefmacro##1\detokenize{macro}:##2&}
5630 \bidi@ifdefmacro{\bidi@notblank{#2}}
5631 \newcommand*{\if@bidi@csmacro}[1]{%
5632 \if@bidi@csdef{#1}
5633 {\expandafter\if@bidi@defmacro\csname#1\endcsname}
5634 {\@secondoftwo}}
5635 \newcommand{\if@bidi@defprimitive}[1]{%
5636 \ifprimitive#1%
5637 \expandafter\@firstoftwo
5638 \else
5639 \expandafter\@secondoftwo
5640 \fi}
5641 \newcommand{\if@bidi@csprimitive}[1]{%
5642 \begingroup\expandafter\expandafter\expandafter\endgroup%
5643 \expandafter\ifprimitive\csname#1\endcsname%
5644 \expandafter\@firstoftwo
5645 \else
5646 \expandafter\@secondoftwo
5647 \fi}
5648 \newcommand*{\bidi@csdefcs}[2]{%
5649 \expandafter\@ifdefinable \csname#1\endcsname{%
5650 \expandafter\def\csname#1\expandafter\endcsname{\csname#2\endcsname}}
5651 \newcommand*{\bidi@csletcs}[2]{%
5652 \expandafter\@ifdefinable \csname#1\endcsname{%
5653 \expandafter\let\csname#1\expandafter\endcsname\csname#2\endcsname}
5654 \newcommand*{\bidi@cslet}[2]{%
5655 \expandafter\@ifdefinable \csname#1\endcsname{%
5656 \expandafter\let\csname#1\endcsname#2}}
5657 \newcommand{\bidi@namelongdef}[1]{%
5658 \long\expandafter\def\csname #1\endcsname}
5659 \newcommand{\bidi@namelonggdef}[1]{%
5660 \long\expandafter\gdef\csname #1\endcsname}
5661 \newcommand{\bidi@namelongedef}[1]{%
5662 \long\expandafter\edef\csname #1\endcsname}
5663 \newcommand{\bidi@namelongxdef}[1]{%
5664 \long\expandafter\xdef\csname #1\endcsname}
5665 \def\bidi@ensure@newcommand{\@star@or@long\bidi@ensure@new@command}
5666 \def\bidi@ensure@new@command#1{%
5667 \begingroup \escapechar\m@ne\xdef\@gtempa{\string#1}\endgroup
5668 \expandafter\if@bidi@csundef\@gtempa
5669 {\new@command#1}{\relax%
5670 \let\@ifdefinable\@rc@ifdefinable%
5671 \new@command#1}}
5672 \def\bidi@ensure@newlength#1{\if@bidi@undef#1{\newskip#1}{}}
5673
5674 \protected\def\bidi@error{\PackageError{bidi}}
5675 \protected\def\bidi@warning{\PackageWarning{bidi}}
5676 \protected\def\bidi@warningnoline{\PackageWarningNoLine{bidi}}
5677 \protected\def\bidi@info{\PackageInfo{bidi}}

```



```

5678
5679 \def\bidipos#1#2#3#4{\bidi@namegdef{bidi@#1pos@@#2@#3}{#4}}
5680
5681 \newcount\bidiposcount
5682
5683 \newcommand*{\WriteStartXPostoaux}{%
5684   \global\advance\bidiposcount\@ne
5685   \edef\@tempa{%
5686     \write\@auxout{%
5687       \string\bidipos{x}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5688     }%
5689   }%
5690   \ifvmode
5691     \leavevmode
5692   \fi
5693   \if@RTL
5694     \if@filesw
5695       \@tempa
5696     \fi
5697   \pdfsavepos
5698   \else
5699   \pdfsavepos
5700   \if@filesw
5701     \@tempa
5702   \fi
5703   \fi
5704   \if\bidi@csundef{bidi@xpos@@start@\number\bidiposcount}{%
5705     \PackageWarningNoLine{biditools}{%
5706       The start x position '\number\bidiposcount' is not known yet.
5707       Rerun to get this x position%
5708     }%
5709   }{%
5710 }
5711
5712 \newcommand*{\WriteEndXPostoaux}{%
5713   \edef\@tempa{%
5714     \write\@auxout{%
5715       \string\bidipos{x}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5716     }%
5717   }%
5718   \if@RTL
5719     \if@filesw
5720       \@tempa
5721     \fi
5722   \pdfsavepos
5723   \else
5724   \pdfsavepos
5725   \if@filesw
5726     \@tempa
5727   \fi
5728   \fi
5729   \if\bidi@csundef{bidi@xpos@@end@\number\bidiposcount}{%
5730     \PackageWarningNoLine{biditools}{%
5731       The end x position '\number\bidiposcount' is not known yet.

```



```

5732         Rerun to get this x position%
5733     }%
5734 }{}%
5735 }
5736
5737 \newcommand*{\WriteStartYPostoaux}{%
5738     \global\advance\bidiposcount\@ne
5739     \edef\@tempa{%
5740         \write\@auxout{%
5741             \string\bidipos{y}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdfasty
5742         }%
5743     }%
5744     \ifvmode
5745         \leavevmode
5746     \fi
5747 \if@RTL
5748     \if@filesw
5749         \@tempa
5750     \fi
5751 \pdfsavepos
5752 \else
5753 \pdfsavepos
5754 \if@filesw
5755     \@tempa
5756 \fi
5757 \fi
5758 \if@bidi@csundef{bidi@ypos@@start@\number\bidiposcount}{%
5759     \PackageWarningNoLine{biditools}{%
5760         The start y position `~\number\bidiposcount' is not known yet.
5761         Rerun to get this y position%
5762     }%
5763 }{}%
5764 }
5765
5766 \newcommand*{\WriteEndYPostoaux}{%
5767     \edef\@tempa{%
5768         \write\@auxout{%
5769             \string\bidipos{y}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdfasty
5770         }%
5771     }%
5772 \if@RTL
5773     \if@filesw
5774         \@tempa
5775     \fi
5776 \pdfsavepos
5777 \else
5778 \pdfsavepos
5779 \if@filesw
5780     \@tempa
5781 \fi
5782 \fi
5783 \if@bidi@csundef{bidi@ypos@@end@\number\bidiposcount}{%
5784     \PackageWarningNoLine{biditools}{%
5785         The end y position `~\number\bidiposcount' is not known yet.

```



```

5786         Rerun to get this y position%
5787     }%
5788 }{}%
5789 }
5790
5791 \newcommand*{\WriteStartXYPostoaux}{%
5792     \global\advance\bidiposcount\@ne
5793     \edef\@tempa{%
5794         \write\@auxout{%
5795             \string\bidipos{x}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5796         }%
5797         \write\@auxout{%
5798             \string\bidipos{y}{start}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5799         }%
5800     }%
5801     \ifvmode
5802         \leavevmode
5803     \fi
5804     \if@RTL
5805         \if@filesw
5806             \@tempa
5807         \fi
5808     \pdfsavepos
5809     \else
5810     \pdfsavepos
5811     \if@filesw
5812         \@tempa
5813     \fi
5814     \fi
5815     \if@bidi@csundef{bidi@xpos@@start@\number\bidiposcount}{%
5816         \PackageWarningNoLine{biditools}{%
5817             The start x position '\number\bidiposcount' is not known yet.
5818             Rerun to get this x position%
5819         }%
5820     }{}%
5821     \if@bidi@csundef{bidi@ypos@@start@\number\bidiposcount}{%
5822         \PackageWarningNoLine{biditools}{%
5823             The start y position '\number\bidiposcount' is not known yet.
5824             Rerun to get this y position%
5825         }%
5826     }{}%
5827 }
5828
5829 \newcommand*{\WriteEndXYPostoaux}{%
5830     \edef\@tempa{%
5831         \write\@auxout{%
5832             \string\bidipos{x}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5833         }%
5834         \write\@auxout{%
5835             \string\bidipos{y}{end}{\number\bidiposcount}{\noexpand\number\noexpand\pdflastx
5836         }%
5837     }%
5838     \if@RTL
5839         \if@filesw

```



```

5840 \tempa
5841 \fi
5842 \pdfsavepos
5843 \else
5844 \pdfsavepos
5845 \if@filesw
5846 \tempa
5847 \fi
5848 \fi
5849 \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{%
5850 \PackageWarningNoLine{biditools}{%
5851 The end x position `\'number\bidi@poscount' is not known yet.
5852 Rerun to get this x position%
5853 }%
5854 }{}%
5855 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{%
5856 \PackageWarningNoLine{biditools}{%
5857 The end y position `\'number\bidi@poscount' is not known yet.
5858 Rerun to get this y position%
5859 }%
5860 }{}%
5861 }
5862
5863 \newcommand*{\currentposxwidth}{%
5864 \if@bidi@csundef{bidi@xpos@@end@\number\bidi@poscount}{\z@}
5865 {%
5866 \ifnum\csname bidi@xpos@@start@\number\bidi@poscount
5867 \endcsname < \csname bidi@xpos@@end@\number\bidi@poscount
5868 \endcsname
5869 \dimexpr \csname bidi@xpos@@end@\number\bidi@poscount
5870 \endcsname sp - \csname bidi@xpos@@start@\number\bidi@poscount
5871 \endcsname sp\relax
5872 \else
5873 \dimexpr \csname bidi@xpos@@start@\number\bidi@poscount
5874 \endcsname sp - \csname bidi@xpos@@end@\number\bidi@poscount
5875 \endcsname sp\relax
5876 \fi
5877 }%
5878 }
5879
5880 \newcommand*{\currentposyheight}{%
5881 \if@bidi@csundef{bidi@ypos@@end@\number\bidi@poscount}{\z@}
5882 {%
5883 \dimexpr \csname bidi@ypos@@start@\number\bidi@poscount
5884 \endcsname sp - \csname bidi@ypos@@end@\number\bidi@poscount
5885 \endcsname sp\relax
5886 }%
5887 }
5888
5889
5890
5891 \newcommand*{\setbaselineskip}[1]{%
5892 \linespread{\strip@pt\dimexpr\numexpr\dimexpr#1\relax*65536/\dimexpr\baselineskip\relax}
5893 \selectfont

```



```

5894 }
5895
5896
5897 \newcommand*{\bidi@newrobustcmd}{\}
5898 \protected\def\bidi@newrobustcmd{\@star@or@long\bidi@new@command}
5899
5900 \def\bidi@new@command#1{\@testopt{\bidi@newcommand#1}0}
5901
5902 \def\bidi@newcommand#1[#2]{%
5903   \@ifnextchar[%]
5904     {\bidi@xargdef#1[#2]}
5905     {\ifx\l@ngrel@x\relax
5906       \let\l@ngrel@x\protected
5907       \else
5908         \protected\def\l@ngrel@x{\protected\long}%
5909       \fi
5910       \@argdef#1[#2]}}
5911
5912 \long\def\bidi@xargdef#1[#2][#3]#4{%
5913   \@ifdefinable#1{%
5914     \expandafter\protected
5915     \expandafter\def
5916     \expandafter#1%
5917     \expandafter{%
5918       \expandafter\@testopt
5919       \csname\string#1\endcsname{#3}}}%
5920   \expandafter\@yargdef\csname\string#1\endcsname\tw@{#2}{#4}}}
5921
5922 \bidi@newrobustcmd*{\bidi@renewrobustcmd}{\@star@or@long\bidi@renew@command}
5923
5924 \def\bidi@renew@command#1{%
5925   \if@bidi@undef{#1}
5926     {\bidi@error{\string#1 undefined}\@ehc}
5927     {}%
5928   \let\@ifdefinable\@rc@ifdefinable
5929   \bidi@new@command#1}
5930
5931
5932
5933 \bidi@newrobustcmd*{\bidi@providerobustcmd}{\@star@or@long\bidi@provide@command}
5934
5935 \def\bidi@provide@command#1{%
5936   \if@bidi@undef{#1}
5937     {\def\reserved@a{\bidi@new@command#1}}
5938     {\def\reserved@a{\bidi@renew@command\reserved@a}}%
5939   \reserved@a}
5940
5941 \newcommand*{\bidi@csuse}[1]{%
5942   \ifcsname#1\endcsname
5943     \csname#1\expandafter\endcsname
5944   \fi}
5945
5946 \newcommand{\bidi@expandonce}[1]{%
5947   \unexpanded\expandafter{#1}}

```



```

5948
5949 \def\bidiprotected{%
5950   \let\@protect\protect
5951   \let\protect\@unexpandable@protect
5952   \afterassignment\restore@protect}
5953
5954 \bidi@newrobustcmd{\bidi@appto}[2]{%
5955   \if@bidi@undef{#1}
5956     {\edef#1{\unexpanded{#2}}}
5957     {\edef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5958 \bidi@newrobustcmd{\bidi@eappto}[2]{%
5959   \if@bidi@undef{#1}
5960     {\edef#1{#2}}
5961     {\edef#1{\bidi@expandonce#1#2}}}
5962 \bidi@newrobustcmd{\bidi@gappto}[2]{%
5963   \if@bidi@undef{#1}
5964     {\xdef#1{\unexpanded{#2}}}
5965     {\xdef#1{\bidi@expandonce#1\unexpanded{#2}}}}
5966 \bidi@newrobustcmd{\bidi@xappto}[2]{%
5967   \if@bidi@undef{#1}
5968     {\xdef#1{#2}}
5969     {\xdef#1{\bidi@expandonce#1#2}}}
5970
5971 \bidi@newrobustcmd*{\bidi@protected@eappto}{\bidi@protected\bidi@eappto}
5972 \bidi@newrobustcmd*{\bidi@protected@xappto}{\bidi@protected\bidi@xappto}
5973
5974
5975
5976 \bidi@newrobustcmd{\bidi@preto}[2]{%
5977   \if@bidi@undef{#1}
5978     {\edef#1{\unexpanded{#2}}}
5979     {\edef#1{\unexpanded{#2}\bidi@expandonce#1}}}
5980 \bidi@newrobustcmd{\bidi@epreto}[2]{%
5981   \if@bidi@undef{#1}
5982     {\edef#1{#2}}
5983     {\edef#1{#2\bidi@expandonce#1}}}
5984 \bidi@newrobustcmd{\bidi@gpreto}[2]{%
5985   \if@bidi@undef{#1}
5986     {\xdef#1{\unexpanded{#2}}}
5987     {\xdef#1{\unexpanded{#2}\bidi@expandonce#1}}}
5988 \bidi@newrobustcmd{\bidi@xpreto}[2]{%
5989   \if@bidi@undef{#1}
5990     {\xdef#1{#2}}
5991     {\xdef#1{#2\bidi@expandonce#1}}}
5992
5993 \bidi@newrobustcmd*{\bidi@protected@epreto}{\bidi@protected\bidi@epreto}
5994 \bidi@newrobustcmd*{\bidi@protected@xpreto}{\bidi@protected\bidi@xpreto}
5995
5996
5997
5998 \bidi@newrobustcmd*{\bidi@csappto}[1]{\expandafter\bidi@appto\csname#1\endcsname}
5999 \bidi@newrobustcmd*{\bidi@cseappto}[1]{\expandafter\bidi@eappto\csname#1\endcsname}
6000 \bidi@newrobustcmd*{\bidi@csgappto}[1]{\expandafter\bidi@gappto\csname#1\endcsname}
6001 \bidi@newrobustcmd*{\bidi@csxappto}[1]{\expandafter\bidi@xappto\csname#1\endcsname}

```



```

6002 \bidi@newrobustcmd*{\bidi@protected@cseappto}{\bidi@protected\bidi@cseappto}
6003 \bidi@newrobustcmd*{\bidi@protected@csxappto}{\bidi@protected\bidi@csxappto}
6004
6005
6006
6007 \bidi@newrobustcmd*{\bidi@cspreto}[1]{\expandafter\bidi@preto\csname#1\endcsname}
6008 \bidi@newrobustcmd*{\bidi@csepreto}[1]{\expandafter\bidi@epreto\csname#1\endcsname}
6009 \bidi@newrobustcmd*{\bidi@csgpreto}[1]{\expandafter\bidi@gpreto\csname#1\endcsname}
6010 \bidi@newrobustcmd*{\bidi@csxpreto}[1]{\expandafter\bidi@xpreto\csname#1\endcsname}
6011 \bidi@newrobustcmd*{\bidi@protected@csepreto}{\bidi@protected\bidi@csepreto}
6012 \bidi@newrobustcmd*{\bidi@protected@csxpreto}{\bidi@protected\bidi@csxpreto}
6013
6014
6015
6016 \bidi@newrobustcmd{\if@bidi@patchable}{%
6017   \bidi@dbg@trce\if@bidi@patchable
6018   \beginingroup
6019   \@makeother\#%
6020   \@ifstar\bidi@ifpatchable@i\bidi@ifpatchable}
6021
6022 \long\def\bidi@ifpatchable#1#2{%
6023   \endgroup
6024   \bidi@dbg@init#1%
6025   \if@bidi@undef{#1}
6026     {\bidi@dbg@fail{def}\@secondoftwo}
6027     {\bidi@dbg@info{def}%
6028       \if@bidi@defmacro{#1}
6029         {\bidi@dbg@info{mac}%
6030           \bidi@ifscanable{#1}
6031             {\bidi@ifhashcheck{#2}
6032               {\bidi@dbg@info{tok}%
6033                 \bidi@ifpattern#1{#2}
6034                 {\bidi@dbg@info{pat}%
6035                   \bidi@dbg@info{pos}\@firstoftwo}
6036                   {\bidi@dbg@fail{pat}\@secondoftwo}}
6037               {\bidi@dbg@fail{hsh}\@secondoftwo}}
6038             {\bidi@dbg@fail{tok}\@secondoftwo}}
6039           {\bidi@dbg@fail{mac}\@secondoftwo}}}}
6040
6041 \long\def\bidi@ifpatchable@i#1{%
6042   \endgroup
6043   \bidi@dbg@init#1%
6044   \if@bidi@undef{#1}
6045     {\bidi@dbg@fail{def}\@secondoftwo}
6046     {\bidi@dbg@info{def}%
6047       \if@bidi@defmacro{#1}
6048         {\bidi@dbg@info{mac}%
6049           \if@bidi@defparam{#1}
6050             {\bidi@dbg@info{prm}%
6051               \bidi@ifscanable{#1}
6052               {\bidi@dbg@info{tok}%
6053                 \bidi@dbg@info{pos}\@firstoftwo}
6054                 {\bidi@dbg@fail{tok}\@secondoftwo}}
6055               {\bidi@dbg@info{prl}%

```





```

6056         \if@bidi@defprotected{#1}
6057         {\bidi@dbg@info{pro}}
6058         }%
6059         \bidi@dbg@info{pos}\@firstoftwo}}
6060     {\bidi@dbg@fail{mac}\@secondoftwo}}
6061
6062 \bidi@newrobustcmd*{\bidi@patchcmd}{%
6063   \bidi@dbg@trce\bidi@patchcmd
6064   \begingroup
6065   \@makeother\%
6066   \bidi@@patchcmd}
6067
6068 \newcommand{\bidi@@patchcmd}[4][#####1]{%
6069   \bidi@ifpatchable#2{#3}
6070   {\bidi@dbg@succ{ret}}%
6071   \begingroup
6072   \edef\bidi@resrvda{%
6073     \def\noexpand\bidi@resrvda####1\detokenize{macro:}####2->####3&{%
6074       #1\def\string\bidi@resrvda\space####2{\noexpand\bidi@resrvdb####3&}}%
6075     \def\noexpand\bidi@resrvdb####1\detokenize{#3}####2&{%
6076       ####1\detokenize{#4}####2}%
6077     \edef\noexpand\bidi@resrvda{%
6078       \noexpand\bidi@resrvda\meaning#2&}}%
6079   \bidi@resrvda
6080   \bidi@patchcmd@scantoks\bidi@resrvda
6081   \let#2\bidi@resrvda
6082   \bidi@undef\bidi@resrvda
6083   \@firstoftwo}
6084   {\@secondoftwo}}
6085
6086 \def\bidi@patchcmd@scantoks#1{%
6087   \edef\bidi@resrvda{\endgroup
6088     \unexpanded{\makeatletter\scantokens}{#1}%
6089     \catcode\number`\@=\the\catcode`\@ \relax}%
6090   \bidi@resrvda}
6091
6092 \protected\def\bidi@ifscanable#1{%
6093   \begingroup
6094   \edef\bidi@resrvda{%
6095     \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
6096       ####1\def\string\bidi@resrvda####2{####3}}%
6097     \edef\noexpand\bidi@resrvda{\noexpand\bidi@resrvda\meaning#1&}}%
6098   \bidi@resrvda
6099   \makeatletter
6100   \scantokens\expandafter{\bidi@resrvda}%
6101   \expandafter\endgroup\ifx#1\bidi@resrvda
6102     \expandafter\@firstoftwo
6103   \else
6104     \expandafter\@secondoftwo
6105   \fi}
6106
6107
6108 \protected\long\def\bidi@ifhashcheck#1{%
6109   \begingroup

```



```

6110 \edef\bidiresrvda{\detokenize{#1}}%
6111 \expandafter\endgroup
6112 \expandafter\bidifhashcheck@i\meaning\bidiresrvda&
6113
6114 \edef\bidifhashcheck@i#1{%
6115 \noexpand\expandafter
6116 \noexpand\bidifhashcheck@ii
6117 \noexpand\strip@prefix#1\string#\string#&}
6118
6119 \edef\bidifhashcheck@ii{%
6120 \def\noexpand\bidifhashcheck@ii##1\string#\string###2&}
6121 \bidifhashcheck@ii{\if@bidi@blank{#2}}
6122
6123
6124 \protected\long\def\bidifpattern#1#2{%
6125 \begingroup
6126 \edef\bidiresrvda{%
6127 \def\noexpand\bidiresrvda####1\detokenize{#2}####2&{%
6128 \endgroup\noexpand\noexpand\noexpand\noexpand\if@bidi@blank{####2}}%
6129 \edef\noexpand\bidiresrvda{\noexpand\bidiresrvda
6130 \expandafter\strip@prefix\meaning#1\detokenize{#2}&}%
6131 \noexpand\bidiresrvda}
6132 \bidiresrvda\@secondoftwo\@firstoftwo}
6133
6134
6135 \newcommand{\if@bidi@defparam}{%
6136 \long\edef\if@bidi@defparam#1{%
6137 \noexpand\expandafter\noexpand\bidifdefparam
6138 \noexpand\meaning#1\detokenize{macro}:->&}
6139 \edef\bidifdefparam{%
6140 \def\noexpand\bidifdefparam##1\detokenize{macro}:##2->##3&}
6141 \bidifdefparam{\bidinotblank{#2}}
6142
6143
6144 \newcommand{\if@bidi@defprotected}{%
6145 \long\edef\if@bidi@defprotected#1{%
6146 \noexpand\expandafter\noexpand\bidifdefprotected
6147 \noexpand\meaning#1\string\protected&}
6148 \edef\bidifdefprotected{%
6149 \def\noexpand\bidifdefprotected##1\string\protected##2&}
6150 \bidifdefprotected{\bidinotblank{#2}}
6151
6152
6153 \bidi@newrobustcmd{\bidi@undef}[1]{\let#1\bidi@undefined}
6154 \bidi@newrobustcmd{\bidi@csundef}[1]{%
6155 \expandafter\let\csname #1\endcsname\bidi@undefined
6156 }
6157
6158 \let\bidi@dbg@trce\@gobble
6159 \let\bidi@dbg@init\@gobble
6160 \let\bidi@dbg@info\@gobble
6161 \let\bidi@dbg@succ\@gobble
6162 \let\bidi@dbg@fail\@gobble
6163

```



```

6164
6165
6166 \bidi@newrobustcmd*{\bidi@apptocmd}{%
6167   \bidi@dbg@trce\bidi@apptocmd
6168   \begingroup
6169   \@makeother\#%
6170   \bidi@hooktocmd\bidi@append}
6171
6172
6173
6174 \bidi@newrobustcmd*{\bidi@pretocmd}{%
6175   \bidi@dbg@trce\bidi@pretocmd
6176   \begingroup
6177   \@makeother\#%
6178   \bidi@hooktocmd\bidi@prepend}
6179
6180 \long\def\bidi@hooktocmd#1#2#3{%
6181   \endgroup
6182   \bidi@dbg@init#2%
6183   \if@bidi@undef{#2}
6184     {\bidi@dbg@fail{def}\@secondoftwo}
6185     {\bidi@dbg@info{def}%
6186       \if@bidi@defmacro{#2}
6187         {\bidi@dbg@info{mac}%
6188           \if@bidi@defparam{#2}
6189             {\bidi@dbg@info{prm}%
6190               \bidi@ifscanable{#2}
6191                 {\bidi@ifhashcheck{#3}
6192                   {\bidi@dbg@info{tok}%
6193                     \bidi@dbg@succ{ret}%
6194                     \bidi@hooktocmd@i#1#2{#3}%
6195                     \@firstoftwo}
6196                   {\bidi@dbg@fail{hsh}\@secondoftwo}}
6197                   {\bidi@dbg@fail{tok}\@secondoftwo}}
6198                 {\bidi@dbg@info{prl}%
6199                   \if@bidi@defprotected{#2}
6200                     {\bidi@dbg@info{pro}%
6201                       \bidi@dbg@succ{red}%
6202                       \protected}
6203                     {\bidi@dbg@succ{red}}}%
6204                   \edef#2{#1{\bidi@expandonce#2}{\unexpanded{#3}}}%
6205                   \@firstoftwo}}
6206                 {\bidi@dbg@fail{mac}\@secondoftwo}}}}
6207
6208 \long\def\bidi@hooktocmd@i#1#2#3{%
6209   \begingroup
6210   \edef\bidi@resrvda{%
6211     \def\noexpand\bidi@resrvda####1\detokenize{macro}:####2->####3&{%
6212       ####1\def\string\bidi@resrvda\space####2{#1{####3}{\detokenize{#3}}}}%
6213     \edef\noexpand\bidi@resrvda{%
6214       \noexpand\bidi@resrvda\meaning#2&}}%
6215   \bidi@resrvda
6216   \bidi@patchcmd@scantoks\bidi@resrvda
6217   \let#2\bidi@resrvda

```



```

6218 \bidi@undef\bidi@resrvda}
6219
6220 \long\def\bidi@append#1#2{#1#2}
6221 \long\def\bidi@prepend#1#2{#2#1}
6222
6223 %\bidi@newrobustcmd*{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
6224 %\newcommand*{\bidi@endpreamblehook}{\bidi@AtEndPreamble}{\bidi@gappto\bidi@endpreamblehook}
6225
6226 \bidi@newrobustcmd*{\bidi@AtEndPreamble}{\AddToHook{begindocument/before}}%
6227
6228 \bidi@newrobustcmd*{\bidi@BeforeOutputPageShipOut}{\bidi@gappto\bidi@beforeoutputpageshipout}
6229 \newcommand*{\bidi@beforeoutputpageshipouthook}{\bidi@BeforeOutputPageShipOut}{\bidi@gappto\bidi@beforeoutputpageshipout}
6230
6231 \bidi@newrobustcmd*{\bidi@BeforeHeader}{\bidi@gappto\bidi@beforeheaderhook}
6232 \newcommand*{\bidi@beforeheaderhook}{\bidi@BeforeHeader}{\bidi@gappto\bidi@beforeheaderhook}
6233
6234 \bidi@newrobustcmd*{\bidi@BeforeOutputBoxOutputPage}{\bidi@gappto\bidi@beforeoutputboxoutputpage}
6235 \newcommand*{\bidi@beforeoutputboxoutputpagehook}{\bidi@BeforeOutputBoxOutputPage}{\bidi@gappto\bidi@beforeoutputboxoutputpage}
6236
6237 \bidi@newrobustcmd*{\bidi@AfterOutputBoxOutputPage}{\bidi@gappto\bidi@afteroutputboxoutputpage}
6238 \newcommand*{\bidi@afteroutputboxoutputpagehook}{\bidi@AfterOutputBoxOutputPage}{\bidi@gappto\bidi@afteroutputboxoutputpage}
6239
6240 \bidi@newrobustcmd*{\bidi@BeforeFooter}{\bidi@gappto\bidi@beforefooterhook}
6241 \newcommand*{\bidi@beforefooterhook}{\bidi@BeforeFooter}{\bidi@gappto\bidi@beforefooterhook}
6242
6243 \bidi@newrobustcmd*{\bidi@AfterFooter}{\bidi@gappto\bidi@afterfooterhook}
6244 \newcommand*{\bidi@afterfooterhook}{\bidi@AfterFooter}{\bidi@gappto\bidi@afterfooterhook}
6245
6246
6247 \bidi@newrobustcmd*{\bidi@AfterOutputPageShipOut}{\bidi@gappto\bidi@afteroutputpageshipouthook}
6248 \newcommand*{\bidi@afteroutputpageshipouthook}{\bidi@AfterOutputPageShipOut}{\bidi@gappto\bidi@afteroutputpageshipouthook}
6249
6250 \bidi@newrobustcmd*{\bidi@AtEndOutputPage}{\bidi@gappto\bidi@atendoutputpagehook}
6251 \newcommand*{\bidi@atendoutputpagehook}{\bidi@AtEndOutputPage}{\bidi@gappto\bidi@atendoutputpagehook}
6252
6253 %\bidi@preto\document{%
6254 % \endgroup
6255 % \let\bidi@AtEndPreamble\@firstofone
6256 % \bidi@endpreamblehook
6257 % \protected\def\bidi@AtEndPreamble{\@notprerr\@gobble}%
6258 % \bidi@undef\bidi@endpreamblehook
6259 % \begingroup}
6260
6261 \bidi@newrobustcmd*{\bidi@AfterPreamble}{\AtBeginDocument}
6262 \bidi@AtEndPreamble{\let\bidi@AfterPreamble\@firstofone}
6263
6264 %\bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterendpreamblehook}
6265 %\newcommand*{\bidi@afterendpreamblehook}{\bidi@AfterEndPreamble}{\bidi@gappto\bidi@afterendpreamblehook}
6266
6267 \bidi@newrobustcmd*{\bidi@AfterEndPreamble}{\AddToHook{begindocument/end}}%
6268
6269 %\bidi@appto\document{%
6270 % \let\bidi@AfterEndPreamble\@firstofone
6271 % \bidi@afterendpreamblehook

```



```

6272 % \protected\def\bid@AfterEndPreamble{\@notprerr\@gobble}%
6273 % \bid@undef\bid@afterendpreamblehook
6274 % \ignorespaces}
6275
6276 \bid@newrobustcmd*{\bid@AfterEndDocumentCheckLabelsRerun}{\bid@gappto\bid@afterenddocumenthook}
6277 \newcommand*{\bid@afterenddocumentchecklabelsrerunhook}{%
6278
6279 \bid@patchcmd\enddocument
6280 {\fi}
6281 {\let\bid@AfterEndDocumentCheckLabelsRerun\@firstofone
6282 \bid@afterenddocumentchecklabelsrerunhook
6283 \fi}
6284 {}
6285 {\PackageWarning{biditools}{Patching '\string\enddocument' failed}}
6286
6287 \AtEndDocument{\let\bid@AfterEndPreamble\@gobble}
6288
6289 \bid@newrobustcmd*{\bid@AfterLastShipout}{\bid@gappto\bid@afterlastshipouthook}
6290 \newcommand*{\bid@afterlastshipouthook}{%
6291
6292 \bid@patchcmd\enddocument
6293 {\clearpage}
6294 {\clearpage
6295 \let\bid@AfterLastShipout\@firstofone
6296 \bid@afterlastshipouthook}
6297 {}
6298 {\let\bid@clearpage\clearpage
6299 \def\clearpage{%
6300 \bid@clearpage
6301 \let\bid@AfterLastShipout\@firstofone
6302 \bid@afterlastshipouthook}}
6303
6304 %\bid@newrobustcmd*{\bid@AfterEndDocument}{\bid@gappto\bid@afterenddocumenthook}
6305 %\newcommand*{\bid@afterenddocumenthook}{%
6306
6307 \bid@newrobustcmd*{\bid@AfterEndDocument}{\AddToHook{enddocument/end}}%
6308
6309 %\bid@patchcmd\enddocument
6310 % {\deadcycles}
6311 % {\let\bid@AfterEndDocument\@firstofone
6312 % \bid@afterenddocumenthook
6313 % \deadcycles}
6314 % {}
6315 % {\let\bid@@end\@@end
6316 % \def\@@end{%
6317 % \let\bid@AfterEndDocument\@firstofone
6318 % \bid@afterenddocumenthook
6319 % \bid@@end}}
6320
6321 \bid@newrobustcmd{\bid@AtBeginEnvironment}[1]{%
6322 \bid@csgappto{\bid@begin@#1@hook}}
6323
6324 % Patch \begin<space> and \end<space> in newer LaTeX releases
6325 % \begin and \end in older ones.

```



```

6326 \expandafter\bidipatchcmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6327 {\csname #1\endcsname}
6328 {\bidicsuse{@bidi@begin@#1@hook}%
6329 \csname #1\endcsname}
6330 {}
6331 {\bidi@warning{%
6332 Patching '\string\begin' failed!\MessageBreak
6333 '\string\bidiatBeginEnvironment' will not work@gobble}}
6334
6335
6336
6337 \bidi@newrobustcmd{\bidi@AtEndEnvironment}[1]{%
6338 \bidi@csgappto{@bidi@end@#1@hook}}
6339
6340 \expandafter\bidipatchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6341 {\csname end#1\endcsname}
6342 {\bidicsuse{@bidi@end@#1@hook}%
6343 \csname end#1\endcsname}
6344 {}
6345 {\bidi@warning{%
6346 Patching '\string\end' failed!\MessageBreak
6347 '\string\bidiatEndEnvironment' will not work@gobble}}
6348
6349
6350
6351 \bidi@newrobustcmd{\bidi@BeforeBeginEnvironment}[1]{%
6352 \bidi@csgappto{@bidi@beforebegin@#1@hook}}
6353
6354 \expandafter\bidipretocmd\csname begin\ifcsname begin \endcsname\space\fi\endcsname
6355 {\bidicsuse{@bidi@beforebegin@#1@hook}}
6356 {}
6357 {\bidi@warning{%
6358 Patching '\string\begin' failed!\MessageBreak
6359 '\string\bidiatBeforeBeginEnvironment' will not work@gobble}}
6360
6361 \bidi@newrobustcmd{\bidi@AfterEndEnvironment}[1]{%
6362 \bidi@csgappto{@bidi@afterend@#1@hook}}
6363
6364 \expandafter\bidipatchcmd\csname end\ifcsname end \endcsname\space\fi\endcsname
6365 {\if@ignore}
6366 {\bidicsuse{@bidi@afterend@#1@hook}%
6367 \if@ignore}
6368 {}
6369 {\bidi@warning{%
6370 Patching '\string\end' failed!\MessageBreak
6371 '\string\bidiatAfterEndEnvironment' will not work@gobble}}
6372
6373 \def\bidi@namedef#1{\expandafter\def\csname #1\endcsname}
6374 \def\bidi@namegdef#1{\expandafter\gdef\csname #1\endcsname}
6375 \def\bidi@nameedef#1{\expandafter\edef\csname #1\endcsname}
6376 \def\bidi@namexdef#1{\expandafter\xdef\csname #1\endcsname}
6377
6378 % From David Carlisle:
6379 % The \stpelt redefinition below belongs to Heiko Oberdiek

```



```

6380 % See also https://github.com/ho-tex/oberdiek/issues/26
6381
6382 \let\@bidi@stepcounter\stepcounter
6383 \let\@bidi@stpelt\@stpelt
6384
6385 \def\@stpelt#1{%
6386   \ifcsname bidi@reset@#1@perpage\endcsname
6387     \begingroup
6388       \let\stepcounter\@bidi@stepcounter
6389       \@bidi@stpelt{#1}%
6390     \endgroup
6391     \expandafter\@gobbletwo
6392   \fi
6393   \@bidi@stpelt{#1}%
6394 }
6395
6396 \bidi@pretocmd\stepcounter
6397 {%
6398   \if@bidi@csundef{bidi@stepcounterhook@@#1}{-}{%
6399     \csname bidi@stepcounterhook@@#1\endcsname
6400   }%
6401 }-%
6402 {\PackageWarning{biditools}{Patching `string\stepcounter' failed}}
6403
6404 \chardef\bidi@backslash`\\
6405 \def\bidics#1{\texttt{\char\bidi@backslash#1}}
6406
6407 % anonymous control sequences
6408 \newcount\bidi@tempcountb
6409 \newtoks\bidi@temptoksa
6410 \newtoks\bidi@temptoksb
6411
6412 % Catcode (re)storing
6413 %
6414 \def\bidi@storecatcode#1%
6415   {\escapechar\m@ne
6416     \bidi@csarg\edef\bidi@restorecatcode\string#1}%
6417     {\catcode`\string#1=
6418       \the\catcode\expandafter`\string#1}%
6419     \catcode\expandafter`\string#1=12\relax
6420     \escapechar`\\relax}
6421 \def\bidi@restorecatcode#1%
6422   {\escapechar\m@ne
6423     \csname bidi@restorecatcode\string#1\endcsname
6424     \escapechar`\\relax}
6425
6426 % Construct a control sequence inside \edef
6427 %
6428 \def\bidi@csname#1{\expandafter\noexpand\csname#1\endcsname}
6429
6430 % Construct a control sequence out of #2, and give it to #1
6431 %
6432 \def\bidi@csarg#1#2{\expandafter#1\csname#2\endcsname}
6433

```



```

6434 % Pick an escapecharacter
6435 % this presumes that its argument is a character.
6436 %
6437 \def\bidipickescape#1{\ifnum`#1=\escapechar\else#1\fi}
6438
6439 % Equality of strings.
6440 % the fast approach: does not work in expansion-only environment.
6441 %
6442 \def\bidiequalstring#1#2{00\fi\def\bidieqsa{#1}\def\bidieqsb{#2}%
6443   \ifx\bidieqsa\bidieqsb}
6444
6445 % Test by expansion only
6446 %
6447 \def\bidiequalstringX#1#2{00\fi
6448   \csname if\@bidiequalstringX#1&#2&$\endcsname}
6449 \def\@bidiequalstringX#1#2$#3#4${\ifx#1#3%
6450   \ifx#1&true\else\bidihop@ES\@bidiequalstringX#2$#4$\fi
6451   \else false\fi}
6452 \def\bidihop@ES#1\fi#2\fi{\fi\fi#1}
6453
6454 % Lexicographic ordering
6455 % note the use of \def
6456 % also note the characters 0,127,255 that are used,
6457 % these are not supposed to appear in the strings
6458 %
6459 {\catcode0=12 \catcode255=12 \catcode127=12
6460 \gdef\bidistringbeforeNC#1#2{00\fi
6461   \bidicharsbefore#1^^@^^?#2^^ff^^?}
6462 \gdef\bidicharsbeforeNC#1#2^^?#3#4^^?{%
6463   \ifcat#1\relax\def\bidinext{\bidicharsbefore#2^^@^^?#3#4^^ff^^?}%
6464   \else\ifcat#3\relax\def\bidinext{\bidicharsbefore#1#2^^@^^?#4^^ff^^?}%
6465   \else\ifnum\lccode`#1<\lccode`#3
6466     \def\bidinext{\csname iftrue\endcsname}%
6467   \else\ifnum\lccode`#1>\lccode`#3
6468     \def\bidinext{\csname iffalse\endcsname}%
6469   \else\def\bidinext{\bidicharsbefore#2^^?#4^^?}%
6470   \fi \fi \fi \fi
6471   \bidinext}
6472 \gdef\bidistringbefore#1#2{00\fi
6473   \bidicharsbefore#1^^@^^?#2^^ff^^?}
6474 \gdef\bidicharsbefore#1#2^^?#3#4^^?{%
6475   \ifnum`#1<`#3
6476     \def\bidinext{\csname iftrue\endcsname}%
6477   \else\ifnum`#1>`#3
6478     \def\bidinext{\csname iffalse\endcsname}%
6479   \else\def\bidinext{\bidicharsbefore#2^^?#4^^?}%
6480   \fi\fi
6481   \bidinext}
6482 }
6483
6484 % Null argument test
6485 %
6486 \def\bidiempty{}
6487 \def\bidiiempty#1{00\fi\expandafter\ifx\csname bidi@#1@null\endcsname\bidii@null}

```





```

6488 \def\bid@ifEmptyX#1{\expandafter\ifx\csname bidi@#1\null\endcsname\bid@@null}
6489 %\def\bid@ifEmpty#1{\def\bid@cs@a{#1}\ifx\bid@cs@a\bid@empty}
6490 \def\bid@IsEmptyList#1{00\fi\def\bid@cs@a{#1}\ifx\cs@a\bid@empty}
6491
6492 % Next character test
6493 %
6494 \def\bid@NextChar#1#2#3{00\fi
6495   \let\bid@nxt@ch#1\def\bid@nxt@a{#2}\def\bid@nxt@b{#3}%
6496   \futurelet\bid@nxt@c\@bid@ifnxtc}
6497 \def\bid@ifNextChar#1#2#3{%
6498   \let\bid@nxt@ch#1\def\bid@nxt@a{#2}\def\bid@nxt@b{#3}%
6499   \futurelet\bid@nxt@c\@bid@ifnxtc}
6500 \def\@bid@ifnxtc{\ifx\bid@nxt@ch\bid@nxt@c \expandafter\bid@nxt@a
6501   \else \expandafter\bid@nxt@b \fi}
6502
6503 % Test for defined-ness of string as control sequence.
6504 % works inside \edef
6505 %
6506 \def\bid@undefinedcs#1{00\fi\bid@csarg\ifx{#1}\relax}
6507
6508 % Define uniquely defined dummy macros,
6509 % usually to serve as bumper blocks at the end of a list
6510 %
6511 \newcount\bid@dummies
6512 \def\DefNewDummy#1{
6513   \if\bid@undefinedcs{#1}\bid@csarg\edef{#1}{\bid@dum\the\bid@dummies}
6514   \advance\bid@dummies\@ne
6515   \else
6516     \bid@error{Attempt at second definition of `#1'}
6517   \fi}
6518
6519 % string case statement
6520 % use: \bid@switch \iftest{...} in:
6521 %   item1 action1
6522 %   ...
6523 %   itemn actionn
6524 %   default defaultaction [optional]
6525 %   \endbid@switch
6526 % inspired by Jonathan Fine: Some Basic Control Macros
6527 % Tugboat 12 #4
6528 %
6529 \let\@bid@fi\fi \let\endbid@switch\relax \DefNewDummy{\bid@default}
6530 \def\bid@switch@exit #1 \@bid@fi #2 \endbid@switch {\fi #1}
6531 \def\bid@switch #1#2#3{\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
6532   #1{#2}\bid@switch@exit #3 \@bid@fi
6533   \bid@switch {#1}
6534 }
6535 % this version puts the test object in {}
6536 \def\bid@oswitch #1 in: #2 #3; {\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi
6537   #1{#2}\bid@switch@exit #3 \@bid@fi
6538   \bid@switch #1 in:
6539 }
6540 % this version assumes that the test object is just one character
6541 \def\bid@cswitch #1 in: #2 #3; {\bid@csarg\ifx{#2}\bid@default\bid@switch@exit #3 \@bid@fi

```



```

6542 #1#2\bidiswitch@exit #3 \@bidi@fi
6543 \bidi@cswitch #1 in:
6544 }
6545 % this version assumes that the test object can have an optional space
6546 \def\bidi@bswitch #1 in: #2 #3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6547 #1#2 \bidiswitch@exit #3 \@bidi@fi
6548 \bidi@bswitch #1 in:
6549 }
6550 % this version can cope with significant spaces at the start of #3;
6551 % #2 is macro argument
6552 \def\bidi@mswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6553 #1{#2}\bidiswitch@exit #3 \@bidi@fi
6554 \bidi@mswitch #1 in:
6555 }
6556 % idem; #2 does not have to be enclosed in braces
6557 \def\bidi@fswitch #1 in: #2:#3; {\bidi@csarg\ifx{#2}\bidi@default\bidi@switch@exit #3 \@bidi@fi
6558 #1#2 \bidiswitch@exit #3 \@bidi@fi
6559 \bidi@fswitch #1 in:
6560 }
6561
6562 % Routines for taking the value of a string:
6563 % if the string is defined as control sequence
6564 % take the value of that, otherwise take the string itself
6565
6566 % String or value of control sequence
6567 %
6568 \def\bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else \the\csname#1\endcsname\fi}
6569
6570 % String or control sequence
6571 %
6572 \def\bidi@ww#1{\if\bidi@undefinedcs{#1}#1\else \csname#1\endcsname \fi}
6573
6574 % String or \noexpand-ed control sequence;
6575 % for use in \edef
6576 %
6577 \newif\ifbidi@in@label
6578 \def\bidi@w@w#1{\if\bidi@undefinedcs{#1}#1\else
6579 \ifbidi@in@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6580 \newtoks\bidi@are@these@correct
6581 \def\bidi@t@w@w#1{%
6582 \if\bidi@undefinedcs{#1}#1%
6583 \ifdefining\bidi@append@to@list\bidi@are@these@correct{#1 }\fi
6584 \else
6585 \ifin@label\noexpand\protect\fi \bidi@csname{#1}\fi}
6586
6587 % List Manipulation .....
6588 % this assumes that #1 is a list of tokens, #2 is the name of a list
6589 %
6590 % Names of lists (and of items to pop into) are given as strings;
6591 % not as control sequences.
6592 %
6593 \newtoks\bidi@toks@lista \newtoks\bidi@toks@listb
6594 % basic append/prepend macro
6595 \long\def\bidi@append@to@clist#1#2#3{\begingroup\bidi@toks@lista=#2{#3}%

```



```

6596 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter#1\the\biditoks@list}
6597 \long\def\@bidi@prepend@to@csl#1#2#3{\begingroup\biditoks@lista=#2{#3}%
6598 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\biditoks@list}
6599 \def\@bidi@append@to@list{\bidicsarg\@bidi@append@to@csl}
6600 \def\@bidi@prepend@to@list{\bidicsarg\@bidi@prepend@to@csl}
6601 % variations:
6602 \long\def\bidic@append@to@list#1#2{\@bidi@append@to@list{#1}{#2}}
6603 \long\def\bidic@prepend@to@list#1#2{\@bidi@prepend@to@list{#1}{#2}}
6604 \def\bidic@append@list@to@list#1#2{%
6605 \@bidi@append@to@list{#1}\expandafter\expandafter\expandafter{\expandafter\the\csname#2}
6606 \def\bidic@prepend@list@to@list#1#2{%
6607 \@bidi@prepend@to@list{#1}\expandafter\expandafter\expandafter{\expandafter\the\csname#2}
6608 \def\bidic@append@csl@to@csl#1#2{%
6609 \@bidi@append@to@csl{#1}\expandafter{\the#2}}
6610 \def\bidic@prepend@csl@to@csl#1#2{%
6611 \@bidi@prepend@to@csl{#1}\expandafter{\the#2}}
6612 \def\bidic@append@toks@cs@to@list#1#2{\@bidi@append@to@list{#1}\expandafter{\the#2}}
6613 \def\bidic@prepend@toks@cs@to@list#1#2{\@bidi@prepend@to@list{#1}\expandafter{\the#2}}
6614
6615 \let\bidic@willbeunhskip\unhskip
6616
6617 % A few list macros for the user
6618 \def\NewTokenList:#1 {\bidicsarg\newtoks{#1}\global\csname#1\endcsname{}}
6619 \def\EmptyTokenList:#1 {\global\csname#1\endcsname{}}
6620 \long\def\AppendToTokenList:#1=#2 {\@bidi@append@to@list{#1}{#2}}
6621 \long\def\PrependToTokenList:#1=#2 {\@bidi@prepend@to@list{#1}{#2}}
6622 \def\TheTokenList:#1 {\let\bidic@oldwbuskip\bidic@willbeunhskip \let\bidic@willbeunhskip\@empty
6623 \if\bidic@undefinedcs{#1}\bidic@error{Token List <#1> undefined}
6624 \else\bidic@csarg\the{#1}\fi
6625 \let\bidic@willbeunhskip\bidic@oldwbuskip}
6626
6627 \def\bidic@del@tok@from@list#1#2{\begingroup
6628 \long\def\bidic@cs@liste##1#2##2\bidic@tok@SM
6629 {\biditoks@lista{##1}\biditoks@listb{##2}%
6630 \edef\bidic@cs@listb{\global\bidic@csname{#1}=
6631 {\the\biditoks@lista\the\biditoks@listb}}%
6632 \bidic@cs@listb}%
6633 \edef\bidic@cs@lista{\noexpand\bidic@cs@liste}\expandafter\the\csname#1\endcsname\noexpand
6634 \bidic@cs@lista \endgroup}
6635 \def\bidic@in@front@of@list#1{\bidic@csarg{\let\expandafter\bidic@cs@lista}{#1}%
6636 \bidic@in@front@of@csl\bidic@cs@lista}
6637 \long\def\bidic@in@front@of@csl#1#2{\begingroup\biditoks@lista={#2}%
6638 \global#1=\expandafter\expandafter\expandafter{\expandafter\the\expandafter\biditoks@list}
6639 \endgroup}
6640 \long\def\bidic@local@in@front@of@list#1#2{\biditoks@lista={#2}%
6641 \csname#1\endcsname\expandafter\expandafter\expandafter\expandafter\expandafter\expandafter
6642 {\expandafter\expandafter\expandafter\the\expandafter\expandafter\expandafter
6643 \expandafter\the\csname#1\endcsname}%
6644 }
6645 \def\bidic@set@list#1{\bidic@csarg{\let\expandafter\bidic@cs@lista}{#1}%
6646 \bidic@set@csl\bidic@cs@lista}
6647 \long\def\bidic@set@csl#1#2{\begingroup\biditoks@lista={#2}%
6648 \global#1=\expandafter{\the\biditoks@lista}\endgroup}
6649

```



```

6650 %%%%%%%%%%% Stack macros
6651 %
6652 % push in terms of prepending of lists
6653 \def\bidipush@cs@onto@cs#1#2{\@bidiprep@to@cslist#1\expandafter{\expandafter\\expandaf
6654 \def\bidipush@onto#1{\@bidicsarg\bidipush@onto@cs{#1}}
6655 \def\bidipush@onto@cs#1#2{\@bidiprep@to@cslist#1}{\{#2}}
6656 \def\bidilocal@push@onto#1#2{\let\=\relax
6657 \bidilocal@in@front@of@list{#1}{\{#2}}
6658 % pop via auxiliary macro: #1 is result, #2 is stack
6659 % two cs arguments
6660 \def\bidipop@cs@into#1#2{\edef\bidics@e
6661 {\noexpand\@bidipopinto\noexpand#1\noexpand#2\the#2\noexpand\@bidipop}\bidics@e}
6662 % two string arguments
6663 \def\bidipop@into#1#2{\edef\bidics@e
6664 {\noexpand\@bidipopinto\bidicsname{#1}\bidicsname{#2}\bidicsarg\the{#2}\noexpand\@bid
6665 \long\def\@bidipopinto#1#2\#3#4{\@bidipop{#1}{#3}{#2}{#4}}
6666 \def\bidicopy@stacktop#1#2{%
6667 \edef\bidics@e{\noexpand\@bidicopy@stacktop
6668 {#1}\bidicsarg\the{#2}\noexpand\@bidipop}%
6669 \bidics@e}
6670 \def\@bidicopy@stacktop#1\#2#3{\@bidipop{\csname#1\endcsname#2\relax}
6671 \newcount\bidistack@length \newtoks\bidie@empty@stack \bidie@empty@stack{\{}}
6672 \def\bidilength@of@stack#1{\bidicsarg\bidilength@of@csstack{#1}}
6673 \def\bidilength@of@csstack#1{\def\#1{\advance\bidistack@length\@ne}%
6674 \bidistack@length\@ne \the#1}
6675 % turn a stack upside down
6676 \def\bidinvert@csstack#1{\bidilength@of@csstack{#1}%
6677 \biditempcountb\z@ \biditemptoksa\bidie@empty@stack
6678 \loop\ifnum\biditempcountb<\bidistack@length
6679 \bidipop@cs@into\biditemptoksb#1\advance\bidistack@length\@ne
6680 \bidipush@cs@onto@cs\biditemptoksa\biditemptoksb
6681 % \bidiappend@cslist@to@cslist\biditemptoksb\biditemptoksa% append a to b
6682 % \biditemptoksa\biditemptoksb
6683 \repeat% copy b to a
6684 #1\biditemptoksa \biditemptoksa\bidie@empty@toks}
6685 % invert a stack into a list
6686 \def\bidix@stack@to@list#1{\bidilength@of@stack{#1}%
6687 \biditempcountb\z@ \biditemptoksa\bidie@empty@toks
6688 \loop\ifnum\biditempcountb<\bidistack@length
6689 \bidipop@into{\biditemptoksb}{#1}\advance\bidistack@length\@ne
6690 \bidiappend@list@to@list{\biditemptoksb}{\biditemptoksa}\repeat
6691 \csname#1\endcsname\biditemptoksa \biditemptoksa\bidie@empty@toks}
6692
6693
6694 % General loop macro:
6695 % \looprepeat
6696 % \forvariable{<var>} \fromvalue{<start>} \bystep{<step>} \tovalue{<end>} \downtovalue{<en
6697 % \untilcondition{<cond>} \whilecondition{<cond>}
6698 % \doloopbody { <loop body> }
6699 % where all control sequences in between \looprepeat and \doloopbody are optional.
6700 %
6701 % var: characters to form a control sequence;
6702 % after \forvariable{index} you can access the loop counter as \index.
6703 % This is a count register; to print it use \number\index.

```



```

6704% start,step,end: integers with obvious relations to the loop counter;
6705%   start and step have a default value of 1
6706% cond: (sequence of commands ending in) any TeX \if... test.
6707%
6708% Count down instead of up with \downtovalue; the increment given in \bystep
6709% is always positive, and is added or subtracted accordingly.
6710%
6711% Tests: \untilcondition is evaluated at the end of the loop body; \whilecondition
6712% at the beginning of the loop body.
6713%
6714% Exit from middle of loop: \breaklooprepeat
6715% use this at any place in the loop; in case of a conditional use
6716%   \ifsomething ... \expandafter \breaklooprepeat \fi
6717%
6718% Note that the line ends do not cause spaces in the output.
6719%
6720% Technical details:
6721% The loop body is not executed in a group: the braces are those
6722% of a token list.
6723% The 'forvariable' variable is \let to a \count register.
6724
6725
6726
6727% Auxiliary stuff
6728\def\bidilooptrepeat@csarg#1#2{\expandafter#1\csname#2\endcsname}
6729\def\bidilooptrepeat@csromannumeral#1{\csname #1\romannumeral\bidilooptrepeat@depth\endcsname}
6730\def\bidilooptrepeat@csargromannumeral#1#2{\expandafter#1\csname#2\romannumeral\bidilooptrepeat@depth\endcsname}
6731
6732\newcount\bidilooptrepeat@depth
6733\let\endlooprepeat\relax \def\bidilooptprotect{}
6734% Trace switches may later be defined by PAC_utils
6735\let\bidilooptrepeat@traceinit\relax \let\bidilooptrepeat@traceexit\relax
6736
6737% Main repeatloop macro
6738% - go to next level and allocate unique counter/toks if this is the
6739%   first time we visit this level
6740% - setup: gather bounds and termination conditions
6741% - scoop up body in token list; after the assignment define and
6742%   execute body
6743\def\looprepeat#1\doloopbody{\bidilooptrepeat@traceinit % exit in \breakrepeatloop
6744  \advance\bidilooptrepeat@depth\@ne\relax
6745  \bidilooptrepeat@csargromannumeral\ifx{\bidilooptrepeat@count}\relax
6746    \bidilooptrepeat@csargromannumeral{\csname newcount\expandafter\endcsname}{\bidilooptrepeat@count}
6747    \bidilooptrepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooptrepeat@count}
6748    \bidilooptrepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooptrepeat@count}
6749    \bidilooptrepeat@csargromannumeral{\csname newtoks\expandafter\endcsname}{\bidilooptrepeat@count}
6750  \fi \bidilooptrepeat@zero \def\bidilooptrepeat@sign{}\def\bidilooptrepeat@comp{>}\bidilooptrepeat@comp
6751  \edef\bidilooptrepeat@tmp
6752    {\def\bidilooptrepeat@csargromannumeral\noexpand{\bidilooptrepeat@looprepeat}{\bidilooptrepeat@body}
6753    \afterassignment\bidilooptrepeat@dxbody\bidilooptrepeat@csromannumeral{\bidilooptrepeat@count}}
6754
6755% Define and execute loop body
6756% This is done with an \edef to construct the actual sequence
6757\def\bidilooptrepeat@dxbody{\bidilooptrepeat@csargromannumeral\edef{\bidilooptrepeat@body}{%

```



```

6758 \bidi@looprepeat@csargromannumeral\the\bidi@looprepeat@wtest}%
6759 \noexpand\the\bidi@looprepeat@csargromannumeral\noexpand\bidi@looprepeat@toks}%
6760 \bidi@looprepeat@csargromannumeral\the\bidi@looprepeat@utest}%
6761 \global\bidi@looprepeat@csargromannumeral\advance\bidi@looprepeat@count by \bidi@loopre
6762 \noexpand\endlooprepeat
6763 \bidi@looprepeat@csargromannumeral\noexpand\bidi@looprepeat@looprepeat}}%
6764 \bidi@looprepeat@csromannumeral\bidi@looprepeat@body}\ignorespaces}
6765
6766 % Stop test
6767 %% In order to stop, issue a
6768 % \breaklooprepeat which scoops up the rest of the body and exits
6769 \def\bidi@looprepeat#1\endlooprepeat{\bidi@looprepeat@zero\bidi@looprepeat@csargromannumeral
6770 \advance\bidi@looprepeat@depth@mOne \bidi@looprepeat@traceexit
6771 }
6772
6773
6774 % Setup
6775 % gather bounds and termination conditions
6776 \def\bidi@looprepeat@setup#1{%
6777 \begingroup
6778 \def\forvariable##1{%
6779 \edef\bidi@looprepeat@tmp{%
6780 \global\let\bidi@looprepeat@csarg\noexpand{##1}\bidi@looprepeat@csromannumeral\bidi@
6781 \bidi@looprepeat@tmp}%
6782 \def\fromvalue##1{\bidi@looprepeat@csargromannumeral\global\bidi@looprepeat@count##1\ig
6783 \def\tovalue##1{%
6784 \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand\bidi@loop
6785 {\bidi@looprepeat@csargromannumeral\the\bidi@looprepeat@wtest}%
6786 \noexpand\ifnum\bidi@looprepeat@csargromannumeral\noexpand\bidi@looprepeat@count}\bi
6787 \noexpand\expandafter \noexpand\breaklooprepeat
6788 \noexpand\fi}\ignorespaces}%
6789 \bidi@looprepeat@tmp}%
6790 \def\dwntovalue##1{%
6791 \gdef\bidi@looprepeat@sign{-}\gdef\bidi@looprepeat@comp{<}\tovalue{##1}\ignorespaces}%
6792 \def\bystep##1{\ifnum##1<0 \bidi@error{LOOPREPEAT: increment has to be a positive value}
6793 \bidi@looprepeat@csargromannumeral\gdef\bidi@looprepeat@inc{-##1}\else
6794 \bidi@looprepeat@csargromannumeral\gdef\bidi@looprepeat@inc{##1}\fi\ignoresp
6795 \def\untilcondition##1{%
6796 \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand\bidi@loop
6797 {\noexpand##1\relax
6798 \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6799 \bidi@looprepeat@tmp}%
6800 \def\whilecondition##1{%
6801 \edef\bidi@looprepeat@tmp{\global\bidi@looprepeat@csargromannumeral\noexpand\bidi@loop
6802 {\noexpand##1\relax \noexpand\else
6803 \noexpand\expandafter \noexpand\breaklooprepeat \noexpand\fi}\ignorespaces}%
6804 \bidi@looprepeat@tmp}%
6805 \fromvalue{\@ne}\bystep{\@ne}#1%
6806 \endgroup}
6807 \def\bidi@looprepeat@zero
6808 {\bidi@looprepeat@csromannumeral\bidi@looprepeat@toks}\bidi@looprepeat@csromannumeral\bi
6809 \bidi@looprepeat@csargromannumeral\def\bidi@looprepeat@body{}}
6810
6811 %\tracingmacros2

```



```

6812%\newcount\tmpcount % used in some examples below
6813
6814%\looprepeat \forvariable{i}
6815%      \bystep{2}
6816%  \doloopbody {%
6817%      \ifnum{i}=13 \expandafter\breaklooprepeat \fi
6818%      \number{i}} %
6819%}%
6820
6821%\looprepeat \forvariable{iii}
6822%      \tovalue{8}
6823%  \doloopbody {}
6824%After loop: \number{iii}%
6825
6826%\looprepeat \forvariable{i}
6827%      \fromvalue{10}
6828%      \bystep{2}
6829%      \downtovalue{0}
6830%  \doloopbody {\number{i}} }
6831
6832%\looprepeat \forvariable{x} \whilecondition{\ifnum{x}<7}
6833%  \doloopbody {\number{x}} }
6834
6835%\looprepeat \tovalue{3} \doloopbody {Hello world! }
6836
6837%\looprepeat \forvariable{j}
6838%      \untilcondition{\tmpcount\j \divide\tmpcount by 37 \noexpand\ifnum\tmpcount=1}
6839%  \doloopbody {\number{j}} }
6840
6841%\looprepeat \forvariable{i} \bystep{2} \tovalue{10} \doloopbody
6842% {\looprepeat \forvariable{j} \fromvalue{i} \bystep{3} \tovalue{18}
6843%  \doloopbody {(\number{i}.\number{j}) }
6844% }
6845
6846% infinite loop
6847%\looprepeat \doloopbody {}
6848
6849\ExplSyntaxOn
6850\NewDocumentCommand \bidi@AfterClass { s m o +m }
6851 {
6852   \IfBooleanTF { #1 }
6853   {
6854     \@ifclassloaded{ #2 }
6855     { #4 }
6856     {
6857       \hook_gput_code:nnn
6858       { file / #2.\@clsextension / after }
6859       { #3 }
6860       { #4 }
6861     }
6862   }
6863   {
6864     \hook_gput_code:nnn { file / #2.\@clsextension / after } { #3 } { #4 }
6865   }

```



```

6866 }
6867
6868 \seq_new:N \g__biditools_input_file_seq
6869
6870 \prg_new_protected_conditional:Npnn \__bidi_if_loading:n #1 { T, F, TF }
6871 {
6872   \str_set:Nx \l_tmpa_str { #1 }
6873   \seq_if_in:NxTF \g__biditools_input_file_seq { \str_use:N \l_tmpa_str }
6874   { \prg_return_true: }
6875   { \prg_return_false: }
6876 }
6877
6878 \prg_new_protected_conditional:Npnn \bidi_if_class_loaded:n #1 { T, F, TF }
6879 {
6880   \@ifclassloaded { #1 }
6881   {
6882     \__bidi_if_loading:nTF { #1.\@clsextension }
6883     { \prg_return_false: }
6884     { \prg_return_true: }
6885   }
6886   {
6887     \prg_return_false:
6888   }
6889 }
6890
6891 \prg_new_protected_conditional:Npnn \bidi_if_package_loaded:n #1 { T, F, TF }
6892 {
6893   \@ifpackageloaded { #1 }
6894   {
6895     \__bidi_if_loading:nTF { #1.\@pkgextension }
6896     { \prg_return_false: }
6897     { \prg_return_true: }
6898   }
6899   {
6900     \prg_return_false:
6901   }
6902 }
6903
6904 \NewDocumentCommand \bidi@AfterAtEndOfClass { s m o +m }
6905 {
6906   \IfBooleanTF { #1 }
6907   {
6908     \bidi_if_class_loaded:nTF { #2 }
6909     { #4 }
6910     { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6911   }
6912   {
6913     \bidi_if_class_loaded:nF
6914     { #2 }
6915     { \hook_gput_code:nnn { class / #2 / after } { #3 } { #4 } }
6916   }
6917 }
6918
6919 \NewDocumentCommand \bidi@AfterPackage { s m o +m }

```





```

6920 {
6921   \IfBooleanTF { #1 }
6922   {
6923     \@ifpackageloaded{ #2 }
6924     { #4 }
6925     {
6926       \hook_gput_code:nnn
6927       { file / #2.\@pkgextension / after }
6928       { #3 }
6929       { #4 }
6930     }
6931   }
6932   {
6933     \hook_gput_code:nnn { file / #2.\@pkgextension / after } { #3 } { #4 }
6934   }
6935 }
6936
6937 \NewDocumentCommand \bidi@AfterAtEndOfPackage { s m o +m }
6938 {
6939   \IfBooleanTF { #1 }
6940   {
6941     \bidi_if_package_loaded:nTF { #2 }
6942     { #4 }
6943     { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6944   }
6945   {
6946     \bidi_if_package_loaded:nF
6947     { #2 }
6948     { \hook_gput_code:nnn { package / #2 / after } { #3 } { #4 } }
6949   }
6950 }
6951
6952 \clist_new:N \l__biditools_package_clist
6953 \msg_new:nnn { biditools } { cannot-prevent-for-already-loaded-package }
6954 {
6955   Can-not~prevent-package~`#1'~from~being~loaded,~
6956   since~it~has~been~loaded~already~before~line~\msg_line_number:
6957 }
6958 \clist_new:N \g__biditools_prevent_clist
6959
6960 \NewDocumentCommand \bidi@PreventPackageFromLoading { s +o m }
6961 {
6962   \clist_set:Nx \l__biditools_package_clist { #3 }
6963   \clist_map_inline:Nn \l__biditools_package_clist
6964   {
6965     \@ifpackageloaded { ##1 }
6966     {
6967       \IfBooleanTF { #1 } { \msg_info:nnn } { \msg_warning:nnn }
6968       { biditools } { cannot-prevent-for-already-loaded-package } { ##1 }
6969     }
6970     {
6971       \clist_if_in:NnF \g__biditools_prevent_clist { ##1 }
6972       { \clist_gput_right:Nn \g__biditools_prevent_clist { ##1 } }
6973       \tl_if_exist:cF { g__biditools_exclude_package_##1_tl }

```



```

6974         {
6975         \tl_new:c { g__biditools_exclude_package_##1_tl }
6976         }
6977     \IfValueT { #2 }
6978     {
6979         \tl_gput_right:cn { g__biditools_exclude_package_##1_tl } { #2 }
6980     }
6981     \disable@package@load { ##1 }
6982     { \tl_use:c { g__biditools_exclude_package_##1_tl } }
6983 }
6984 }
6985 \clist_clear:N \l__biditools_package_clist
6986 }
6987
6988 \NewDocumentCommand \bidi@ResetPreventPackageFromLoading {}
6989 {
6990     \clist_map_function:NN \g__biditools_prevent_clist \reenable@package@load
6991     \clist_gclear:N \g__biditools_prevent_clist
6992 }
6993
6994 \NewDocumentCommand \bidi@StorePreventPackageFromLoading { m }
6995 { \edef #1 { \clist_use:Nn \g__biditools_prevent_clist { , } } }
6996
6997 \NewDocumentCommand \bidi@UnPreventPackageFromLoading { s m }
6998 {
6999     \clist_set:Nx \l__biditools_package_clist { #2 }
7000     \clist_map_inline:Nn \l__biditools_package_clist
7001     {
7002         \clist_if_in:NnT \g__biditools_prevent_clist { ##1 }
7003         {
7004             \clist_gremove_all:Nn \g__biditools_prevent_clist { ##1 }
7005             \reenable@package@load { ##1 }
7006             \IfBooleanT { #1 }
7007             { \cs_undefine:c { g__biditools_exclude_package_##1_tl } }
7008         }
7009     }
7010 }
7011
7012 \NewDocumentCommand \bidi@BeforeClosingMainAux { o m }
7013 {
7014     \hook_gput_code:nnn { enddocument / afterlastpage } { #1 }
7015     {
7016         \debug_suspend:
7017         \RenewDocumentCommand \bidi@BeforeClosingMainAux { m } { ##1 }
7018         \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7019         \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7020         #2
7021         \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7022         \debug_resume:
7023     }
7024 }
7025
7026 \NewDocumentCommand \bidi@AfterReadingMainAux { o m }
7027 {

```



```

7028 \hook_gput_code:nnn { enddocument / afteraux } { #1 }
7029 {
7030   \debug_suspend:
7031   \RenewDocumentCommand \bidi@AfterReadingMainAux { m } { ##1 }
7032   \cs_set_eq:NN \__biditools_protected@write:Nnn \protected@write
7033   \cs_set_eq:NN \protected@write \bidi@protected@immediate@write
7034   #2
7035   \cs_set_eq:NN \protected@write \__biditools_protected@write:Nnn
7036   \debug_resume:
7037 }
7038 }
7039
7040 \clist_new:N \l__biditools_file_patch_clist
7041
7042 \NewDocumentCommand \ApplyPatchToFiles { m O{def} O{bidi} }
7043 {
7044   \clist_set:Nx \l__biditools_file_patch_clist { #1 }
7045   \clist_map_inline:Nn \l__biditools_file_patch_clist
7046   {
7047     \ApplyPatchToFile { ##1 } [ #2 ] [ #3 ]
7048   }
7049   \clist_clear:N \l__biditools_file_patch_clist
7050 }
7051
7052 \clist_new:N \l__biditools_package_patch_clist
7053
7054 \NewDocumentCommand \ApplyPatchToPackages { m O{bidi} }
7055 {
7056   \clist_set:Nx \l__biditools_package_patch_clist { #1 }
7057   \clist_map_inline:Nn \l__biditools_package_patch_clist
7058   {
7059     \ApplyPatchToPackage { ##1 } [ #2 ]
7060   }
7061   \clist_clear:N \l__biditools_package_patch_clist
7062 }
7063
7064 \clist_new:N \l__biditools_class_patch_clist
7065
7066 \NewDocumentCommand \ApplyPatchToClasses { m O{bidi} }
7067 {
7068   \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7069   \clist_map_inline:Nn \l__biditools_class_patch_clist
7070   {
7071     \ApplyPatchToClass { ##1 } [ #2 ]
7072   }
7073   \clist_clear:N \l__biditools_class_patch_clist
7074 }
7075
7076 \NewDocumentCommand \ApplyPatchToClassesIfPackageLoadedF { m m O{bidi} }
7077 {
7078   \clist_set:Nx \l__biditools_class_patch_clist { #1 }
7079   \clist_map_inline:Nn \l__biditools_class_patch_clist
7080   {
7081     \ApplyPatchToClassIfPackageLoadedF { ##1 } { #2 } [ #3 ]

```



```

7082     }
7083     \clist_clear:N \l__biditools_class_patch_clist
7084 }
7085 \ExplSyntaxOff
7086
7087 \newcommand*{\bidi@ReplaceInput}{\declare@file@substitution}
7088 \newcommand*{\bidi@UnReplaceInput}
7089 {\undeclare@file@substitution}
7090 \newcommand*{\bidi@ReplacePackage}[2]{%
7091   \declare@file@substitution{#1.\@pkgextension}{#2.\@pkgextension}%
7092 }
7093 \newcommand*{\bidi@UnReplacePackage}[1]{%
7094   \undeclare@file@substitution{#1.\@pkgextension}%
7095 }
7096 \newcommand*{\bidi@ReplaceClass}[2]{%
7097   \declare@file@substitution{#1.\@clsextension}{#2.\@clsextension}%
7098 }
7099 \newcommand*{\bidi@UnReplaceClass}[1]{%
7100   \undeclare@file@substitution{#1.\@clsextension}%
7101 }
7102 \newcommand*{\bidi@BeforeFile}[1]{%
7103   \AddToHook{file/#1/before}%
7104 }
7105 \newcommand*{\bidi@AfterFile}[1]{%
7106   \AddToHook{file/#1/after}%
7107 }
7108 \newcommand*{\bidi@BeforeClass}[1]{%
7109   \bidi@BeforeFile{#1.\@clsextension}%
7110 }
7111 \newcommand*{\bidi@BeforePackage}[1]{%
7112   \bidi@BeforeFile{#1.\@pkgextension}%
7113 }
7114
7115 \long\def\bidi@protected@immediate@write#1#2#3{%
7116   \begingroup
7117     #2%
7118     \let\protect\@unexpandable@protect
7119     \edef\reserved@a{\immediate\write#1{#3}}%
7120     \reserved@a
7121   \endgroup
7122   \if@nobreak\ifvmode\nobreak\fi\fi
7123 }
7124
7125 \def\bidi@patch@AfterPackage#1{%
7126   \@ifpackageloaded{#1}{%
7127     \@firstofone
7128   }{%
7129     \AddToHook{package/#1/after}%
7130   }%
7131 }
7132
7133 \def\bidi@patch@AfterFile#1{%
7134   \IfFileLoadedTF{#1}{%
7135     \@firstofone

```



```

7136 }{%
7137   \AddToHook{file/#1/after}%
7138 }%
7139 }
7140
7141 \NewDocumentCommand \ApplyPatchToFile { m O{def} O{bidi} }
7142 {
7143   \bidi@patch@AfterFile{#1.#2}{%
7144     \ifnum\catcode`\@=11
7145       \input{#1-xetex-#3.def}%
7146     \else
7147       \bidi@storecatcode\@
7148       \makeatletter
7149       \input{#1-xetex-#3.def}%
7150       \bidi@restorecatcode\@
7151     \fi
7152   }%
7153 }
7154
7155 \NewDocumentCommand \ApplyPatchCodeToFile { m +m O{def} }
7156 {
7157   \bidi@patch@AfterFile{#1.#3}{#2}%
7158 }
7159
7160 \NewDocumentCommand \ApplyPatchToFilesIfPackageLoadedF { m m O{def} O{bidi} }
7161 {
7162   \AddToHook{begindocument/before}{%
7163     \IfPackageLoadedF{#1}{%
7164       \ApplyPatchToFiles{#2}[#3][#4]%
7165     }%
7166   }
7167 }
7168
7169 \NewDocumentCommand \ApplyPatchToClassIfPackageLoadedF { m m O{bidi} }
7170 {
7171   \AddToHook{begindocument/before}{%
7172     \IfPackageLoadedF{#2}{%
7173       \ifnum\catcode`\@=11
7174         \@ifclassloaded{#1}{%
7175           \input{#1-xetex-#3.def}%
7176         }{}%
7177       \else
7178         \bidi@storecatcode\@
7179         \makeatletter
7180         \@ifclassloaded{#1}{%
7181           \input{#1-xetex-#3.def}%
7182         }{}%
7183         \bidi@restorecatcode\@
7184       \fi
7185     }%
7186   }
7187 }
7188
7189 \NewDocumentCommand \ApplyPatchToPackageIfPackageLoadedF { m m O{bidi} }

```



```

7190 {
7191   \AddToHook{begindocument/before}{%
7192     \IfPackageLoadedF{#2}{%
7193       \IfPackageLoadedT{#1}{%
7194         \ifnum\catcode`\@=11
7195           \input{#1-xetex-#3.def}%
7196         \else
7197           \bidi@storecatcode\@
7198           \makeatletter
7199           \input{#1-xetex-#3.def}%
7200           \bidi@restorecatcode\@
7201         \fi
7202       }%
7203     }%
7204   }
7205 }
7206
7207 \NewDocumentCommand \ApplyPatchIfPackageLoaded { m +m +m }
7208 {
7209   \AddToHook{begindocument/before}{%
7210     \ifnum\catcode`\@=11
7211       \@ifpackageloaded{#1}{#2}{#3}%
7212     \else
7213       \bidi@storecatcode\@
7214       \makeatletter
7215       \@ifpackageloaded{#1}{#2}{#3}%
7216       \bidi@restorecatcode\@
7217     \fi
7218   }
7219 }
7220
7221 \NewDocumentCommand \ApplyPatchIfPackageLoadedT { m +m }
7222 {
7223   \ApplyPatchIfPackageLoaded{#1}{#2}{}%
7224 }
7225
7226 \NewDocumentCommand \ApplyPatchIfPackageLoadedF { m +m }
7227 {
7228   \ApplyPatchIfPackageLoaded{#1}{}{#2}%
7229 }
7230
7231 \NewDocumentCommand \ApplyPatchToPackage { m O{bidi} }
7232 {
7233   \bidi@patch@AfterPackage{#1}{\input{#1-xetex-#2.def}}%
7234 }
7235
7236 \NewDocumentCommand \ApplyPatchCodeToPackage { m +m }
7237 {
7238   \bidi@patch@AfterPackage{#1}{#2}%
7239 }
7240
7241 \NewDocumentCommand \ApplyPatchToClass { m O{bidi} }
7242 {
7243   \@ifclassloaded{#1}{\input{#1-xetex-#2.def}}{}%

```



7244 }

## 53 File `bidituftefloat.sty`

```
7245 \NeedsTeXFormat{LaTeX2e}
7246 \ProvidesPackage{bidituftefloat}[2025/01/03 v0.3
7247 bidi implementation of tufte float]
7248 \RequirePackage{xifthen}
7249 \newcommand{\@bidituftefloat@pkgname}{bidituftefloat}
7250 \newcommand{\bidituftefloatError}[2]{\PackageError{\@bidituftefloat@pkgname}{#1}{#2}}
7251 \newcommand{\bidituftefloatDebugInfoNL}[1]{\ifthenelse{\boolean{@bidituftefloat@debug}}{\bid
7252 \newcommand{\bidituftefloatInfoNL}[1]{\PackageInfo{\@bidituftefloat@pkgname}{#1\@gobble}}
7253 \newboolean{@bidituftefloat@reversegeometry}
7254 \setboolean{@bidituftefloat@reversegeometry}{false}
7255 \DeclareOption{reversegeometry}{\setboolean{@bidituftefloat@reversegeometry}{true}}
7256 \newboolean{@bidituftefloat@a4paper}
7257 \DeclareOption{a4paper}{\setboolean{@bidituftefloat@a4paper}{true}}
7258 \newboolean{@bidituftefloat@b5paper}
7259 \DeclareOption{b5paper}{\setboolean{@bidituftefloat@b5paper}{true}}
7260 \newboolean{@bidituftefloat@symmetric}
7261 \newboolean{@bidituftefloat@twoside}
7262 \DeclareOption{twoside}{%
7263 \@twoside true \mparswitch true%
7264 \setboolean{@bidituftefloat@twoside}{true}%
7265 \setboolean{@bidituftefloat@symmetric}{true}%
7266 }
7267 \DeclareOption{oneside}{%
7268 \@twoside false \mparswitch false%
7269 \setboolean{@bidituftefloat@twoside}{false}%
7270 \setboolean{@bidituftefloat@symmetric}{false}%
7271 }
7272 \IfClassLoadedT{book}{\ExecuteOptions{twoside}}
7273 \newboolean{@bidituftefloat@debug}
7274 \newcommand*{\@bidituftefloat@caption@justification}{\@bidituftefloat@justification@autodete
7275 \ProcessOptions
7276 %% Globally sets the length
7277 \newcommand*{\gsetlength}[2]{%
7278 \setlength{#1}{#2}%
7279 \global#1=#1\relax%
7280 }
7281
7282 %% Set the font sizes and baselines to match bidituftefloat's books
7283 \renewcommand\normalsize{%
7284 \setfontsize\normalsize\@xpt{14}%
7285 \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
7286 \abovedisplayshortskip \z@ \@plus3\p@
7287 \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
7288 \belowdisplayskip \abovedisplayskip
7289 \let\@listi\@listI}
7290 \normalbaselineskip=14pt
7291 \normalsize
7292 \renewcommand\footnotesize{%
7293 \setfontsize\footnotesize\@viipt{10}%
7294 \abovedisplayskip 6\p@ \@plus2\p@ \@minus4\p@
```



```

7295 \abovedisplayskip \z@ \@plus\p@
7296 \belowdisplayskip 3\p@ \@plus\p@ \@minus2\p@
7297 \def\@listi{\leftmargin\leftmargin
7298         \topsep 3\p@ \@plus\p@ \@minus\p@
7299         \parsep 2\p@ \@plus\p@ \@minus\p@
7300         \itemsep \parsep}%
7301 \belowdisplayskip \abovedisplayskip
7302 }
7303 %% Paragraph indentation and separation for marginal text
7304 \newcommand{\@bituftefloat@margin@par}{%
7305 \setlength{\RaggedRightParindent}{0.5pc}%
7306 \setlength{\JustifyingParindent}{0.5pc}%
7307 \setlength{\parindent}{0.5pc}%
7308 \setlength{\parskip}{0pt}%
7309 }
7310 \RequirePackage{ragged2e}
7311 \ifthenelse{\boolean{@bituftefloat@reversegeometry}}{%
7312 \RequirePackage[letterpaper,right=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
7313 \ifthenelse{\boolean{@bituftefloat@a4paper}}
7314 {\geometry{a4paper,right=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
7315 {}
7316 \ifthenelse{\boolean{@bituftefloat@b5paper}}
7317 {\geometry{paperwidth=176mm,paperheight=250mm,right=14.66mm,top=13.88mm,textwidth=102.66mm
7318 {}}%
7319 \RequirePackage[letterpaper,left=1in,top=1in,headsep=2\baselineskip,textwidth=26pc,marginpar
7320 \ifthenelse{\boolean{@bituftefloat@a4paper}}
7321 {\geometry{a4paper,left=24.8mm,top=27.4mm,headsep=2\baselineskip,textwidth=107mm,marginpar
7322 {}
7323 \ifthenelse{\boolean{@bituftefloat@b5paper}}
7324 {\geometry{paperwidth=176mm,paperheight=250mm,left=14.66mm,top=13.88mm,textwidth=102.66mm,
7325 {}
7326 \ifthenelse{\boolean{@bituftefloat@symmetric}}
7327 {}
7328 {\geometry{asymmetric}}% forces internal LaTeX `twoside'
7329 \setlength{\marginparpush}{10pt}
7330 %% Font for margin items
7331 \newcommand{\@bituftefloat@marginfont}{\normalfont\footnotesize}
7332 \newcommand*{\@bituftefloat@captionfont}{\@bituftefloat@marginfont}
7333 \newcommand*{\setcaptionfont}[1]{\renewcommand*{\@bituftefloat@captionfont}{#1}}
7334 \newcommand{\@bituftefloat@justification}{\justifying}%
7335 \setlength{\abovedisplayskip}{6pt plus 2pt minus 4pt}
7336 \setlength{\belowdisplayskip}{6pt plus 2pt minus 4pt}
7337 \newboolean{@bituftefloat@changepage}
7338 \IfFileExists{changepage.sty}{%
7339 \bituftefloatDebugInfoNL{Found changepage.sty}
7340 \RequirePackage[strict]{changepage}
7341 \setboolean{@bituftefloat@changepage}{true}
7342 }{%
7343 \bituftefloatDebugInfoNL{Found chngpage.sty}
7344 \RequirePackage[strict]{chngpage}
7345 \setboolean{@bituftefloat@changepage}{false}
7346 }
7347 \newboolean{@bituftefloat@odd@page}
7348 \setboolean{@bituftefloat@odd@page}{true}

```





```

7349 \newcommand*{\@biditytfloat@checkoddpages}{%
7350   \checkoddpages%
7351   \ifthenelse{\boolean{@biditytfloat@changepages}}{%
7352     \ifoddpages%
7353       \setboolean{@biditytfloat@oddpages}{true}%
7354     \else%
7355       \setboolean{@biditytfloat@oddpages}{false}%
7356     \fi%
7357   }{%
7358     \ifcpoddpages%
7359       \setboolean{@biditytfloat@oddpages}{true}%
7360     \else%
7361       \setboolean{@biditytfloat@oddpages}{false}%
7362     \fi%
7363   }%
7364 }
7365 \newlength{\@biditytfloat@overhang}% used by the fullwidth environment and the running head
7366 \newlength{\@biditytfloat@fullwidth}
7367 \newlength{\@biditytfloat@caption@fill}
7368 \newcommand{\@biditytfloatRecalculate}{%
7369   \setlength{\@biditytfloat@overhang}{\marginparwidth}
7370   \addtolength{\@biditytfloat@overhang}{\marginparsep}
7371
7372   \setlength{\@biditytfloat@fullwidth}{\textwidth}
7373   \addtolength{\@biditytfloat@fullwidth}{\marginparsep}
7374   \addtolength{\@biditytfloat@fullwidth}{\marginparwidth}
7375
7376   \setlength{\@biditytfloat@caption@fill}{\textwidth}
7377   \addtolength{\@biditytfloat@caption@fill}{\marginparsep}
7378 }
7379 \AtBeginDocument{\@biditytfloatRecalculate}
7380 \RequirePackage{optparams}% provides multiple optional arguments for commands
7381 \RequirePackage{placeins}
7382 \newsavebox{\@biditytfloat@margin@floatbox}
7383 \newenvironment{@biditytfloat@margin@float}[2][-1.2ex]%
7384   {\FloatBarrier% process all floats before this point so the figure/table numbers stay in o
7385   \begin{lrbox}{\@biditytfloat@margin@floatbox}%
7386   \begin{minipage}{\marginparwidth}%
7387     \@biditytfloat@caption@font%
7388     \def\@capytype{#2}%
7389     \hbox{\vspace*{#1}%
7390       \@biditytfloat@caption@justification%
7391       \@biditytfloat@margin@par%
7392       \noindent%
7393     }
7394   \end{minipage}%
7395   \end{lrbox}%
7396   \marginpar{\usebox{\@biditytfloat@margin@floatbox}}%
7397 }
7398 \newenvironment{marginfigure}[1][-1.2ex]%
7399   {\begin{@biditytfloat@margin@float}[#1]{figure}}
7400   {\end{@biditytfloat@margin@float}}
7401 \newenvironment{margintable}[1][-1.2ex]%
7402   {\begin{@biditytfloat@margin@float}[#1]{table}}

```



```

7403   {\end{@bidituftefloat@margin@float}}
7404 \newcommand*{\@bidituftefloat@justification@autodetect}{\justifying}%
7405
7406 \newcommand{\@bidituftefloat@float@debug@info}{}% contains debug info generated as the float
7407 \newcommand{\@bidituftefloat@float@debug}[1]{% adds debug info to the queue for output
7408   \ifthenelse{\equal{\@bidituftefloat@float@debug@info}{}}{%
7409     {\def\@bidituftefloat@float@debug@info{#1}}%
7410     {\g@addto@macro\@bidituftefloat@float@debug@info{\MessageBreak#1}}%
7411 }
7412 \newcommand{\floatalignment}{x}% holds the current float alignment (t, b, h, p)
7413 \newcommand{\setfloatalignment}[1]{\global\def\floatalignment{#1}\@bidituftefloat@float@debug{
7414 \newboolean{@bidituftefloat@float@recto}
7415 \newcommand{\forcerectoofloat}{\GlobalSetBoolean{@bidituftefloat@float@recto}{true}\@bidituf
7416 \newcommand{\forceversoofloat}{\GlobalSetBoolean{@bidituftefloat@float@recto}{false}\@bidituf
7417 \newsavebox{\@bidituftefloat@figure@box}
7418 \newsavebox{\@bidituftefloat@caption@box}
7419 \let\@bidituftefloat@orig@float\@float
7420 \let\@bidituftefloat@orig@endfloat\endfloat
7421 \newlength{\@bidituftefloat@caption@vertical@offset}
7422 \setlength{\@bidituftefloat@caption@vertical@offset}{0pt}
7423 \newcommand{\@bidituftefloat@stored@shortcaption}{%
7424 \newcommand{\@bidituftefloat@stored@caption}{%
7425 \newcommand{\@bidituftefloat@stored@label}{%
7426 \long\def\@bidituftefloat@caption[#1][#2]#3{%
7427   \ifthenelse{\isempty{#1}}{%
7428     {\gdef\@bidituftefloat@stored@shortcaption{#3}}%
7429     {\gdef\@bidituftefloat@stored@shortcaption{#1}}%
7430     \gsetlength{\@bidituftefloat@caption@vertical@offset}{-#2}% we want a positive offset to l
7431     \gdef\@bidituftefloat@stored@caption{#3}%
7432 }
7433 \newcommand{\@bidituftefloat@label}[1]{%
7434   \gdef\@bidituftefloat@stored@label{#1}%
7435 }
7436 \newcommand{\@bidituftefloat@fps}{%
7437 \newboolean{@bidituftefloat@float@star}
7438 \newlength{\@bidituftefloat@float@contents@width}
7439 \newenvironment{@bidituftefloat@float}[3][htbp]%
7440   {% begin @bidituftefloat@float
7441     % Should this float be full-width or just text-width?
7442     \ifthenelse{\equal{#3}{star}}{%
7443       {\GlobalSetBoolean{@bidituftefloat@float@star}{true}}%
7444       {\GlobalSetBoolean{@bidituftefloat@float@star}{false}}%
7445     % Check page side (recto/verso) and store detected value -- can be overridden in environm
7446     \@bidituftefloat@checkoddpage%
7447     \ifthenelse{\boolean{@bidituftefloat@odd@page}}{%
7448       {\GlobalSetBoolean{@bidituftefloat@float@recto}{true}\@bidituftefloat@float@debug{Dete
7449       {\GlobalSetBoolean{@bidituftefloat@float@recto}{false}\@bidituftefloat@float@debug{Det
7450     % If the float placement specifier is 'b' and only 'b', then bottom-align the mini-pages
7451     \renewcommand{\@bidituftefloat@fps}{#1}%
7452     \@bidituftefloat@float@debug{Allowed positions: [ #1 ]}%
7453     \ifthenelse{\equal{#1}{b}\OR\equal{#1}{B}}{%
7454       {\renewcommand{\floatalignment}{b}\@bidituftefloat@float@debug{Presumed position: [bot
7455       {\renewcommand{\floatalignment}{t}\@bidituftefloat@float@debug{Presumed position: [top
7456     % Capture the contents of the \caption and \label commands to use later

```



```

7457 \global\let\@biditytfloat@orig@caption\caption%
7458 \global\let\@biditytfloat@orig@label\label%
7459 \renewcommand{\caption}{\optparams{\@biditytfloat@caption}{[] [Opt]}}%
7460 \renewcommand{\label}[1]{\@biditytfloat@label{##1}}%
7461 % Handle subfigure package compatibility
7462 \ifthenelse{\boolean{\@biditytfloat@packages@subfigure}}{%
7463   \bidi@patchcmd{\subfigure}{%
7464     \let\subfig@oldlabel=\label
7465   }{%
7466     \let\subfig@oldlabel=\@biditytfloat@orig@label
7467   }
7468   {}
7469   {}
7470   \let\subtable=\subfigure
7471 }{}% subfigure package is not loaded
7472 \@biditytfloat@orig@float{#2}[#1]%
7473 \ifthenelse{\boolean{\@biditytfloat@float@star}}{%
7474   {\setlength{\@biditytfloat@float@contents@width}{\@biditytfloat@fullwidth}}%
7475   {\setlength{\@biditytfloat@float@contents@width}{\textwidth}}%
7476 \begin{lrbox}{\@biditytfloat@figure@box}%
7477   \begin{minipage}[\floatalignment]{\@biditytfloat@float@contents@width}\hbox{%
7478 }{}% end \@biditytfloat@float
7479   \par\hbox{}\vspace{-\baselineskip}\ifthenelse{\prevdepth>0}{\vspace{-\prevdepth}}{}% a
7480   \end{minipage}%
7481 \end{lrbox}%
7482 % build the caption box
7483 \begin{lrbox}{\@biditytfloat@caption@box}%
7484   \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
7485     \ifthenelse{\NOT\equal{\@biditytfloat@stored@caption}{}}{\@biditytfloat@orig@cap
7486     \ifthenelse{\NOT\equal{\@biditytfloat@stored@label}{}}{\@biditytfloat@orig@label
7487     \par\vspace{-\prevdepth}}% TODO: DOUBLE-CHECK FOR SAFETY
7488   \end{minipage}%
7489 \end{lrbox}%
7490 % now typeset the stored boxes
7491 \begin{fullwidth}%
7492   \begin{minipage}[\floatalignment]{\linewidth}%
7493     \ifthenelse{\boolean{\@biditytfloat@float@star}}%
7494       {\@biditytfloat@float@fullwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7495       {\@biditytfloat@float@textwidth[\@biditytfloat@caption@vertical@offset]{\@bidi
7496     \end{minipage}%
7497   \end{fullwidth}%
7498   \@biditytfloat@orig@endfloat% end original LaTeX float environment
7499 % output debug info
7500 \ifthenelse{\boolean{\@biditytfloat@debug}}{%
7501   \typeout{^^J^^J----- biditytfloat package float information -----}%
7502   \ifthenelse{\equal{\@biditytfloat@stored@label}{}}%
7503     {\typeout{Warning: Float unlabeled!}}%
7504     {\typeout{Float label: [\@biditytfloat@stored@label]}}%
7505   \typeout{Page number: [\thepage]}%
7506   \def\MessageBreak{^^J}%
7507   \typeout{\@biditytfloat@float@debug@info}%
7508   \ifthenelse{\boolean{\@biditytfloat@symmetric}}%
7509     {\typeout{Symmetric: [true]}}%
7510     {\typeout{Symmetric: [false]}}%

```



```

7511 \typeout{-----^^J^^J}%
7512 }{}%
7513 % reset commands and temp boxes and captions
7514 \gdef\@biditytfloat@float@debug@info{}%
7515 \let\caption\@biditytfloat@orig@caption%
7516 \let\label\@biditytfloat@orig@label%
7517 \begin{lrbox}{\@biditytfloat@figure@box}\hbox{}\end{lrbox}%
7518 \begin{lrbox}{\@biditytfloat@caption@box}\hbox{}\end{lrbox}%
7519 \gdef\@biditytfloat@stored@shortcaption{}%
7520 \gdef\@biditytfloat@stored@caption{}%
7521 \gdef\@biditytfloat@stored@label{}%
7522 \gsetlength{\@biditytfloat@caption@vertical@offset}{0pt}% reset caption offset
7523 }
7524 \newcommand{\@biditytfloat@float@textwidth}[3][Opt]{%
7525 \ifthenelse{NOT\boolean{@biditytfloat@symmetric}}OR\boolean{@biditytfloat@float@recto}
7526 % asymmetric or page is odd, so caption is on the right
7527 \hbox{%
7528 \usebox{#2}%
7529 \hspace{\marginparsep}%
7530 \smash{\raisebox{#1}{\usebox{#3}}}%
7531 }
7532 \@biditytfloat@float@debug{Caption position: [right]}%
7533 }{% symmetric pages and page is even, so caption is on the left
7534 \hbox{%
7535 \smash{\raisebox{#1}{\usebox{#3}}}%
7536 \hspace{\marginparsep}%
7537 \usebox{#2}%
7538 }
7539 \@biditytfloat@float@debug{Caption position: [left]}%
7540 }%
7541 }
7542 \newcommand{\@biditytfloat@float@fullwidth}[3][Opt]{%
7543 \ifthenelse{\equal{\floatalignment}{b}}{%
7544 % place caption above figure
7545 \ifthenelse{NOT\boolean{@biditytfloat@symmetric}}OR\boolean{@biditytfloat@float@recto}
7546 {\hfill\smash{\raisebox{#1}{\usebox{#3}}}\par\usebox{#2}\@biditytfloat@float@debug
7547 {\smash{\raisebox{#1}{\usebox{#3}}}\hfill\par\usebox{#2}\@biditytfloat@float@debug
7548 }% place caption below figure
7549 \ifthenelse{NOT\boolean{@biditytfloat@symmetric}}OR\boolean{@biditytfloat@float@recto}
7550 {\usebox{#2}\par\hfill\smash{\raisebox{#1}{\usebox{#3}}}\@biditytfloat@float@debug
7551 {\usebox{#2}\par\smash{\raisebox{#1}{\usebox{#3}}}\hfill\@biditytfloat@float@debug
7552 }%
7553 }
7554 \renewenvironment{figure}[1][htbp]{%
7555 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}}{}
7556 {\end{@biditytfloat@float}}
7557 \renewenvironment{table}[1][htbp]{%
7558 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}}{}
7559 {\end{@biditytfloat@float}}
7560 \renewenvironment{figure*}[1][htbp]{%
7561 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{figure}{star}}
7562 {\end{@biditytfloat@float}}
7563 \renewenvironment{table*}[1][htbp]{%
7564 {\ifvmode\else\unskip\fi\begin{@biditytfloat@float}[#1]{table}{star}}

```



```

7565 {\end{@biditytfloat@float}}
7566 \newenvironment{fullwidth}
7567 {\ifthenelse{\boolean{@biditytfloat@symmetric}}}%
7568   {\ifthenelse{\boolean{@biditytfloat@change page}}{\begin{adjustwidth*}{-{\@biditytfloat@overhang}}}%
7569   {\begin{adjustwidth}{-{\@biditytfloat@overhang}}}%
7570 }%
7571 {\ifthenelse{\boolean{@biditytfloat@symmetric}}}%
7572   {\ifthenelse{\boolean{@biditytfloat@change page}}{\end{adjustwidth*}}{\end{adjustwidth}}}%
7573   {\end{adjustwidth}}}%
7574 }
7575 \long\def\@caption#1[#2]#3{%
7576   \par%
7577   \addcontentsline{\csname ext@#1\endcsname}{#1}%
7578     {\protect\numberline{\csname the#1\endcsname}{\ignorespaces #2}}%
7579   \begingroup%
7580     \@parboxrestore%
7581     \if@minipage%
7582       \setminipage%
7583     \fi%
7584     \@biditytfloat@caption@font\@biditytfloat@caption@justification%
7585     \noindent\csname fnum@#1\endcsname: \ignorespaces#3\par%
7586     \%@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
7587   \endgroup}
7588 %%
7589 % Turns newlines into spaces. Based on code from the 'titlesec' package.
7590 \DeclareRobustCommand{\@biditytfloat@newlinetospace}{%
7591   \@ifstar{\@biditytfloat@newlinetospace@i}{\@biditytfloat@newlinetospace@i}%
7592 }
7593 \def\@biditytfloat@newlinetospace@i{%
7594   \ifdim\lastskip>z@\else\space\fi
7595   \ignorespaces%
7596 }
7597 \DeclareRobustCommand{\newlinetospace}[1]{%
7598   \let\@biditytfloat@orig@cr\% save the original meaning of \
7599   \def\@biditytfloat@newlinetospace{% turn \ and \* into \space
7600   \let\newline\% turn \newline into \space
7601   #1%
7602   \let\@biditytfloat@orig@cr\% revert to original meaning of \
7603 }
7604 \RequirePackage{fancyhdr}
7605 \pagestyle{fancy}
7606 \AtBeginDocument{%
7607   \ifthenelse{\boolean{@biditytfloat@symmetric}}
7608     {\fancyhfoffset[LE,RO]{\@biditytfloat@overhang}}
7609     {\fancyhfoffset[RE,RO]{\@biditytfloat@overhang}}
7610 }
7611 % The running heads/feet don't have rules
7612 \renewcommand{\headrulewidth}{0pt}
7613 \renewcommand{\footrulewidth}{0pt}
7614 % The 'fancy' page style is the default style for all pages.
7615 \fancyhf{} % clear header and footer fields
7616   \ifthenelse{\boolean{@biditytfloat@symmetric}}
7617     {\fancyhead[LE]{\thepage\quad\textsl{\newlinetospace{\plainauthor}}}%
7618     \fancyhead[RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%

```



```

7619    {\fancyhead[RE,RO]{\textsl{\newlinetospace{\plaintitle}}\quad\thepage}}%
7620% The 'plain' page style is used on chapter opening pages.
7621% In Tufte's /Beautiful Evidence/ he never puts page numbers at the
7622% bottom of pages -- the folios are unexpressed.
7623\fancypagestyle{plain}{
7624  \fancyhf{} % clear header and footer fields
7625  % Uncomment the following five lines of code if you want the opening page
7626  % of the chapter to express the folio in the lower outside corner.
7627  % \ifthenelse{\boolean{@bidituftefloat@symmetric}}
7628  %   {\fancyfoot[LE,RO]{\thepage}}
7629  %   {\fancyfoot[RE,RO]{\thepage}}
7630}
7631% The 'empty' page style suppresses all headers and footers.
7632% It's used on title pages and 'intentionally blank' pages.
7633\fancypagestyle{empty}{
7634  \fancyhf{} % clear header and footer fields
7635}
7636\def\morefloats{% provides a total of 52 floats
7637  \ifthenelse{\isundefined{\bx@S}}{%
7638    \bidituftefloatDebugInfoNL{Adding 34 more float slots.}
7639    \newinsert\bx@S
7640    \newinsert\bx@T
7641    \newinsert\bx@U
7642    \newinsert\bx@V
7643    \newinsert\bx@W
7644    \newinsert\bx@X
7645    \newinsert\bx@Y
7646    \newinsert\bx@Z
7647    \newinsert\bx@a
7648    \newinsert\bx@b
7649    \newinsert\bx@c
7650    \newinsert\bx@d
7651    \newinsert\bx@e
7652    \newinsert\bx@f
7653    \newinsert\bx@g
7654    \newinsert\bx@h
7655    \newinsert\bx@i
7656    \newinsert\bx@j
7657    \newinsert\bx@k
7658    \newinsert\bx@l
7659    \newinsert\bx@m
7660    \newinsert\bx@n
7661    \newinsert\bx@o
7662    \newinsert\bx@p
7663    \newinsert\bx@q
7664    \newinsert\bx@r
7665    \newinsert\bx@s
7666    \newinsert\bx@t
7667    \newinsert\bx@u
7668    \newinsert\bx@v
7669    \newinsert\bx@w
7670    \newinsert\bx@x
7671    \newinsert\bx@y
7672    \newinsert\bx@z

```



```

7673 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7674 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7675 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7676 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7677 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7678 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7679 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7680 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7681 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7682 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7683 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7684 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z}%
7685 }{% we've already added another 34 floats, so we'll add 26 more, but that's it!
7686 \ifthenelse{\isundefined{\bx@AA}}{%
7687 \bidituftefloatDebugInfoNL{Adding 26 more float slots.}
7688 \newinsert\bx@AA
7689 \newinsert\bx@BB
7690 \newinsert\bx@CC
7691 \newinsert\bx@DD
7692 \newinsert\bx@EE
7693 \newinsert\bx@FF
7694 \newinsert\bx@GG
7695 \newinsert\bx@HH
7696 \newinsert\bx@II
7697 \newinsert\bx@JJ
7698 \newinsert\bx@KK
7699 \newinsert\bx@LL
7700 \newinsert\bx@MM
7701 \newinsert\bx@NN
7702 \newinsert\bx@OO
7703 \newinsert\bx@PP
7704 \newinsert\bx@QQ
7705 \newinsert\bx@RR
7706 \newinsert\bx@SS
7707 \newinsert\bx@TT
7708 \newinsert\bx@UU
7709 \newinsert\bx@VV
7710 \newinsert\bx@WW
7711 \newinsert\bx@XX
7712 \newinsert\bx@YY
7713 \newinsert\bx@ZZ
7714 \gdef\@freelist{\@elt\bx@A\@elt\bx@B\@elt\bx@C\@elt\bx@D\@elt\bx@E
7715 \@elt\bx@F\@elt\bx@G\@elt\bx@H\@elt\bx@I\@elt\bx@J
7716 \@elt\bx@K\@elt\bx@L\@elt\bx@M\@elt\bx@N
7717 \@elt\bx@O\@elt\bx@P\@elt\bx@Q\@elt\bx@R
7718 \@elt\bx@S\@elt\bx@T\@elt\bx@U\@elt\bx@V
7719 \@elt\bx@W\@elt\bx@X\@elt\bx@Y\@elt\bx@Z
7720 \@elt\bx@a\@elt\bx@b\@elt\bx@c\@elt\bx@d\@elt\bx@e
7721 \@elt\bx@f\@elt\bx@g\@elt\bx@h\@elt\bx@i\@elt\bx@j
7722 \@elt\bx@k\@elt\bx@l\@elt\bx@m\@elt\bx@n
7723 \@elt\bx@o\@elt\bx@p\@elt\bx@q\@elt\bx@r
7724 \@elt\bx@s\@elt\bx@t\@elt\bx@u\@elt\bx@v
7725 \@elt\bx@w\@elt\bx@x\@elt\bx@y\@elt\bx@z
7726 \@elt\bx@AA\@elt\bx@BB\@elt\bx@CC\@elt\bx@DD\@elt\bx@EE

```



```

7727         \@elt\bx@FF\@elt\bx@GG\@elt\bx@HH\@elt\bx@II\@elt\bx@JJ
7728         \@elt\bx@KK\@elt\bx@LL\@elt\bx@MM\@elt\bx@NN
7729         \@elt\bx@OO\@elt\bx@PP\@elt\bx@QQ\@elt\bx@RR
7730         \@elt\bx@SS\@elt\bx@TT\@elt\bx@UU\@elt\bx@VV
7731         \@elt\bx@WW\@elt\bx@XX\@elt\bx@YY\@elt\bx@ZZ}%
7732     }{%
7733     \biditytfloatError{You may only call \string\morefloats\space twice. See the\Message
7734     {There are already 78 float slots allocated. Try using \string\FloatBarrier\space or
7735     }%
7736 }%
7737 }
7738 \newboolean{@biditytfloat@packages@subfigure}
7739 \setboolean{@biditytfloat@packages@subfigure}{false}
7740 \AtBeginDocument{%
7741     \ifpackageloaded{subfigure}
7742     {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{true}}
7743     {\GlobalSetBoolean{@biditytfloat@packages@subfigure}{false}}%
7744 }
7745 \AtBeginDocument{%
7746     \ifpackageloaded{float}{%
7747         % Save the redefined float environment (instead of the LaTeX float environment)
7748         \let@biditytfloat@orig@float\@float
7749         \let@biditytfloat@orig@endfloat\endfloat
7750
7751         % Define Tufte float styles (with the caption in the margin)
7752         \newcommand{\floatc@biditytfloatplain}[2]{%
7753             \begin{lrbox}{\@biditytfloat@caption@box}%
7754                 \begin{minipage}[\floatalignment]{\marginparwidth}\hbox{%
7755                     \@biditytfloat@caption@font{\@fs@cfont #1:} #2\par%
7756                 }
7757             \end{lrbox}%
7758             \smash{\hspace{\@biditytfloat@caption@fill}}\usebox{\@biditytfloat@caption@box}}%
7759     }
7760     \newcommand{\fs@biditytfloatplain}{%
7761         \def\@fs@cfont{\@biditytfloat@caption@font}%
7762         \let\@fs@capt\floatc@biditytfloatplain%
7763         \def\@fs@pre{%
7764             \def\@fs@post{%
7765                 \def\@fs@mid{%
7766                     \let\@fs@iftopcapt\iftrue%
7767                 }
7768                 \let\fs@biditytfloatplaintop=\fs@biditytfloatplain
7769                 \let\floatc@biditytfloatplaintop=\floatc@biditytfloatplain
7770                 \newcommand\floatc@biditytfloatruled[2]{%
7771                     {\@fs@cfont #1} #2\par%
7772                 }
7773                 \newcommand\fs@biditytfloatruled{%
7774                     \def\@fs@cfont{\@biditytfloat@caption@font}%
7775                     \let\@fs@capt\floatc@biditytfloatplain%
7776                     \def\@fs@pre{\hrule height.8pt depth0pt width\textwidth \kern2pt}%
7777                     \def\@fs@post{\kern2pt\hrule width\textwidth\relax}%
7778                     \def\@fs@mid{%
7779                         \let\@fs@iftopcapt\iftrue%
7780                     }

```





```

7781 \newcommand\fs@biditytuftefloatboxed{%
7782 \def\@fs@cfont{}}%
7783 \let\@fs@capt\floatc@biditytuftefloatplain%
7784 \def\@fs@pre{%
7785 \setbox\@currbox\vbox{\hbadness10000
7786 \moveleft3.4pt\vbox{\advance\hsize by6.8pt
7787 \hrule \hbox to\hsize{\vrule\kern3pt
7788 \vbox{\kern3pt\box\@currbox\kern3pt}\kern3pt\vrule}\hrule}}
7789 }%
7790 \def\@fs@mid{\kern2pt}%
7791 \def\@fs@post{}}%
7792 \let\@fs@iftopcapt\iftrue%
7793 }
7794 }{%
7795 % Nothing to do
7796 }
7797 }
7798 \AtBeginDocument{%
7799 \@ifpackageloaded{algorithm}{%
7800 % Set the float style to the Tufte version
7801 \ifthenelse{\equal{\ALG@floatstyle}{plain}}{OR\equal{\ALG@floatstyle}{ruled}}{OR\equal{\ALG@floatstyle}{ALG}}{\ALG@floatstyle}
7802 \biditytuftefloatInfoNL{Switching algorithm float style from \ALG@floatstyle\MessageBreak to \ALG@floatstyle}%
7803 \floatstyle{biditytuftefloat\ALG@floatstyle}%
7804 \restylefloat{algorithm}%
7805 }{}%
7806 }{%
7807 % Nothing to do
7808 }
7809 }
7810 \PassOptionsToPackage{caption=false}{subfig}

```

## 54 File biditytuftesidenote.sty

```

7811 \NeedsTeXFormat{LaTeX2e}
7812 \ProvidesPackage{biditytuftesidenote}[2017/08/09 v0.4
7813 bidi implementation of tufte sidenote]
7814 \RequirePackage{xifthen}
7815 \RequirePackage{ragged2e}
7816 \RequirePackage{setspace}
7817 \RequirePackage{biditytools}
7818 \def\biditytuftesidenotemarginpar{%
7819 \ifhmode
7820 \@bsphack
7821 \@floatpenalty -\@Mii
7822 \else
7823 \@floatpenalty -\@Miii
7824 \fi
7825 \ifinner
7826 \@parmoderr
7827 \@floatpenalty\z@
7828 \else
7829 \@next\@currbox\@freelist{}{}%
7830 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7831 {\@floatpenalty\z@

```



```

7832         \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7833     \fi
7834     \@ifnextchar [\@bidityftesidenotexmpar\@bidityftesidenoteympar}
7835 \long\def\@bidityftesidenotexmpar[#1]#2{%
7836     \@bidityftesidenotesavemarbox\@marbox{#1}%
7837     \@bidityftesidenotesavemarbox\@currbox{#2}%
7838     \@xympar}
7839 \long\def\@bidityftesidenoteympar#1{%
7840     \@bidityftesidenotesavemarbox\@marbox{#1}%
7841     \global\setbox\@currbox\copy\@marbox
7842     \@xympar}
7843 \long\def \@bidityftesidenotesavemarbox #1#2{%
7844     \global\setbox #1%
7845         \color@vbox
7846         \vtop{%
7847             \hsize\marginparwidth
7848             \@parboxrestore
7849             \@bidityftesidenotemarginparreset
7850             #2%
7851             \@minipagefalse
7852             \outer@nobreak
7853         }%
7854     \color@endbox
7855 }
7856 \def \@bidityftesidenotemarginparreset {%
7857     \reset@font
7858     \normalsize
7859     \@minipagetrue
7860     \everypar{\@minipagefalse\everypar{}\if@RTL@footnote\beginR\else\beginL\fi}%
7861 }
7862 \def\LTRbidityftesidenotemarginpar{%
7863     \ifhmode
7864         \@bsphack
7865         \@floatpenalty -\@Mii
7866     \else
7867         \@floatpenalty-\@Miii
7868     \fi
7869     \ifinner
7870         \@parmoderr
7871         \@floatpenalty\z@
7872     \else
7873         \@next\@currbox\@freelist{}\}%
7874         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7875         {\@floatpenalty\z@
7876         \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7877     \fi
7878     \@ifnextchar [\@LTRbidityftesidenotexmpar\@LTRbidityftesidenoteympar}
7879 \long\def\@LTRbidityftesidenotexmpar[#1]#2{%
7880     \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7881     \@LTRbidityftesidenotesavemarbox\@currbox{#2}%
7882     \@xympar}
7883 \long\def\@LTRbidityftesidenoteympar#1{%
7884     \@LTRbidityftesidenotesavemarbox\@marbox{#1}%
7885     \global\setbox\@currbox\copy\@marbox

```



```

7886 \@xympar}
7887 \long\def \@LTRbidituftesidenotesavemarbox #1#2{%
7888 \global\setbox #1%
7889 \color@vbox
7890 \vtop{%
7891 \hsize\marginparwidth
7892 \@parboxrestore
7893 \@LTRbidituftesidenotemarginparreset
7894 #2%
7895 \@minipagefalse
7896 \outer@nobreak
7897 }%
7898 \color@endbox
7899 }
7900 \def \@LTRbidituftesidenotemarginparreset {%
7901 \reset@font
7902 \normalsize
7903 \@minipagetrue
7904 \everypar{\@minipagefalse\everypar{}\beginL}%
7905 }
7906 \def\RTLbidituftesidenotemarginpar{%
7907 \ifhmode
7908 \@bsphack
7909 \@floatpenalty -\@Mii
7910 \else
7911 \@floatpenalty-\@Miii
7912 \fi
7913 \ifinner
7914 \@parmoderr
7915 \@floatpenalty\z@
7916 \else
7917 \@next\@currbox\@freelist{}\{}%
7918 \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
7919 {\@floatpenalty\z@
7920 \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
7921 \fi
7922 \ifnextchar [\@RTLbidituftesidenotexmpar\@RTLbidituftesidenoteympar}
7923 \long\def\@RTLbidituftesidenotexmpar[#1]#2{%
7924 \@RTLbidituftesidenotesavemarbox\@marbox{#1}%
7925 \@RTLbidituftesidenotesavemarbox\@currbox{#2}%
7926 \@xympar}
7927 \long\def\@RTLbidituftesidenoteympar#1{%
7928 \@RTLbidituftesidenotesavemarbox\@marbox{#1}%
7929 \global\setbox\@currbox\copy\@marbox
7930 \@xympar}
7931 \long\def \@RTLbidituftesidenotesavemarbox #1#2{%
7932 \global\setbox #1%
7933 \color@vbox
7934 \vtop{%
7935 \hsize\marginparwidth
7936 \@parboxrestore
7937 \@RTLbidituftesidenotemarginparreset
7938 #2%
7939 \@minipagefalse

```



```

7940         \outer@nobreak
7941     }%
7942     \color@endbox
7943 }
7944 \def \@RTLbidituftesidenotemarginparreset {%
7945     \reset@font
7946     \normalsize
7947     \@minipagetrue
7948     \everypar{\@minipagefalse\everypar{}\beginR}%
7949 }
7950 \newcommand*{\@bidituftesidenote@marginfont}{\normalfont\footnotesize}
7951 \newcommand*{\@bidituftesidenote@LTRmarginfont}{\normalfont\footnotesize}
7952 \newcommand*{\@bidituftesidenote@RTLmarginfont}{\normalfont\footnotesize}
7953 \newcommand*{\@bidituftesidenote@sidenote@font}{\@bidituftesidenote@marginfont}
7954 \newcommand*{\@bidituftesidenote@LTRsidenote@font}{\@bidituftesidenote@LTRmarginfont}
7955 \newcommand*{\@bidituftesidenote@RTLsidenote@font}{\@bidituftesidenote@RTLmarginfont}
7956 \newcommand*{\@bidituftesidenote@marginnote@font}{\@bidituftesidenote@marginfont}
7957 \newcommand*{\@bidituftesidenote@LTRmarginnote@font}{\@bidituftesidenote@LTRmarginfont}
7958 \newcommand*{\@bidituftesidenote@RTLmarginnote@font}{\@bidituftesidenote@RTLmarginfont}
7959 \newcommand*{\@bidituftesidenote@citation@font}{\@bidituftesidenote@marginfont}
7960 \newcommand*{\@bidituftesidenote@LTRcitation@font}{\@bidituftesidenote@LTRmarginfont}
7961 \newcommand*{\@bidituftesidenote@RTLcitation@font}{\@bidituftesidenote@RTLmarginfont}
7962 \newcommand*{\setsidenote@font}[1]{\renewcommand*{\@bidituftesidenote@sidenote@font}{#1}}
7963 \newcommand*{\setLTRsidenote@font}[1]{\renewcommand*{\@bidituftesidenote@LTRsidenote@font}{#1}}
7964 \newcommand*{\setRTLsidenote@font}[1]{\renewcommand*{\@bidituftesidenote@RTLsidenote@font}{#1}}
7965 \newcommand*{\setmarginnote@font}[1]{\renewcommand*{\@bidituftesidenote@marginnote@font}{#1}}
7966 \newcommand*{\setLTRmarginnote@font}[1]{\renewcommand*{\@bidituftesidenote@LTRmarginnote@font}{#1}}
7967 \newcommand*{\setRTLmarginnote@font}[1]{\renewcommand*{\@bidituftesidenote@RTLmarginnote@font}{#1}}
7968 \newcommand*{\setcitation@font}[1]{\renewcommand*{\@bidituftesidenote@citation@font}{#1}}
7969 \newcommand*{\setLTRcitation@font}[1]{\renewcommand*{\@bidituftesidenote@LTRcitation@font}{#1}}
7970 \newcommand*{\setRTLcitation@font}[1]{\renewcommand*{\@bidituftesidenote@RTLcitation@font}{#1}}
7971 \newcommand*{\@bidituftesidenote@sidenote@justification}{\@bidituftesidenote@justification@auto}
7972 \newcommand*{\@bidituftesidenote@marginnote@justification}{\@bidituftesidenote@justification@auto}
7973 \newcommand*{\@bidituftesidenote@citation@justification}{\@bidituftesidenote@justification@auto}
7974 \newcommand*{\@bidituftesidenote@justification@autodetect}{\justifying}%
7975 \newcommand{\@bidituftesidenote@margin@par}{%
7976     \setlength{\RaggedRightParindent}{0.5pc}%
7977     \setlength{\JustifyingParindent}{0.5pc}%
7978     \setlength{\parindent}{0.5pc}%
7979     \setlength{\parskip}{0pt}%
7980 }
7981 %%
7982 % Globally sets the length
7983 \@ifundefined{gsetlength}{%
7984 \newcommand*{gsetlength}[2]{%
7985     \setlength{#1}{#2}%
7986     \global#1=#1\relax%
7987 }%
7988 }{}
7989
7990 %%
7991 % A function that removes leading and trailing spaces from the supplied macro.
7992 % Based on code written by Michael Downes (See ``Around the Bend'', #15.)
7993 % Executing \@bidituftesidenote@trim@spaces\xyzzy will result in the contents of \xyzzy

```



```

7994 % being trimmed of leading and trailing white space.
7995 \catcode\Q=3
7996 \def\@bidityftesidenote@trim@spaces#1{%
7997   % Use grouping to emulate a multi-token afterassignment queue
7998   \begingroup%
7999   % Put \toks 0 {' into the afterassignment queue
8000   \aftergroup\toks\aftergroup0\aftergroup{%
8001   % Apply \trimb to the replacement text of #1, adding a leading
8002   % \noexpand to prevent brace stripping and to serve another purpose
8003   % later.
8004   \expandafter\@bidityftesidenote@trim@b\expandafter\noexpand#1Q Q}%
8005   % Transfer the trimmed text back into #1.
8006   \edef#1{\the\toks0}%
8007 }
8008 % \trimb removes a trailing space if present, then calls \@bidityftesidenote@trim@c to
8009 % clean up any leftover bizarre Qs, and trim a leading space. In
8010 % order for \trimc to work properly we need to put back a Q first.
8011 \def\@bidityftesidenote@trim@b#1 Q{\@bidityftesidenote@trim@c#1Q}
8012 % Execute \vfuzz assignment to remove leading space; the \noexpand
8013 % will now prevent unwanted expansion of a macro or other expandable
8014 % token at the beginning of the trimmed text. The \endgroup will feed
8015 % in the \aftergroup tokens after the \vfuzz assignment is completed.
8016 \def\@bidityftesidenote@trim@c#1Q#2{\afterassignment\endgroup \vfuzz\the\vfuzz#1}
8017 \catcode\Q=11
8018 %%
8019 % Citations should go in the margin as sidenotes
8020
8021 \RequirePackage{natbib}
8022 \RequirePackage{bibentry} % allows bibitems to be typeset outside thebibliography env
8023 % Redefine the \BR@b@bibitem command to fix a bug with bibentry+chicago style
8024 \renewcommand\BR@b@bibitem[2][]{%
8025   \ifthenelse{\isempty{#1}}{%
8026     {\BR@bibitem{#2}}%
8027     {\BR@bibitem{#1}{#2}}%
8028   \BR@c@bibitem{#2}%
8029 }
8030 \bidi@AtEndPreamble{\nobibliography*} % pre-loads the bibliography keys
8031 %%
8032 % Normal \cite behavior
8033 \newcounter{@bidityftesidenote@num@bibkeys}%
8034 \newcommand{\@bidityftesidenote@normal@cite}[2][Opt]{%
8035   % Snag the last bibentry in the list for later comparison
8036   \let\@temp@last@bibkey\@empty%
8037   \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8038   \sidenote[] {#1}{%
8039     % Loop through all the bibentries, separating them with semicolons and spaces
8040     \normalsize\normalfont\@bidityftesidenote@citation@font%
8041     \setcounter{@bidityftesidenote@num@bibkeys}{0}%
8042     \@for\@temp@bibkeyx:=#2\do{%
8043       \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8044         {\ifthenelse{\equal{value{@bidityftesidenote@num@bibkeys}}{0}}{\{and\ }%
8045           \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8046           \bibentry{\@temp@bibkeyx}}%
8047         {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey

```



```

8048         \bibentry{\@temp@bibkeyx};\ }%
8049         \stepcounter{@bidituftesidenote@num@bibkeys}%
8050     }%
8051 }%
8052 }
8053 \newcommand{\@bidituftelTRsidenote@normal@cite}[2][Opt]{%
8054 % Snag the last bibentry in the list for later comparison
8055 \let\@temp@last@bibkey\@empty%
8056 \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8057 \LTRsidenote[] [#1]{%
8058 % Loop through all the bibentries, separating them with semicolons and spaces
8059 \normalsize\normalfont\@bidituftesidenote@LTR@citation@font%
8060 \setcounter{@bidituftesidenote@num@bibkeys}{0}%
8061 \@for\@temp@bibkeyx:=#2\do{%
8062 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8063 {\ifthenelse{\equal{\value{@bidituftesidenote@num@bibkeys}}{0}}{\and\ }%
8064 \@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8065 \bibentry{\@temp@bibkeyx}}%
8066 {\@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8067 \bibentry{\@temp@bibkeyx};\ }%
8068 \stepcounter{@bidituftesidenote@num@bibkeys}%
8069 }%
8070 }%
8071 }
8072 \newcommand{\@biditufterTLsidenote@normal@cite}[2][Opt]{%
8073 % Snag the last bibentry in the list for later comparison
8074 \let\@temp@last@bibkey\@empty%
8075 \@for\@temp@bibkey:=#2\do{\let\@temp@last@bibkey\@temp@bibkey}%
8076 \RTLsidenote[] [#1]{%
8077 % Loop through all the bibentries, separating them with semicolons and spaces
8078 \normalsize\normalfont\@bidituftesidenote@citation@font%
8079 \setcounter{@bidituftesidenote@num@bibkeys}{0}%
8080 \@for\@temp@bibkeyx:=#2\do{%
8081 \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8082 {\ifthenelse{\equal{\value{@bidituftesidenote@num@bibkeys}}{0}}{\and\ }%
8083 \@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8084 \bibentry{\@temp@bibkeyx}}%
8085 {\@bidituftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8086 \bibentry{\@temp@bibkeyx};\ }%
8087 \stepcounter{@bidituftesidenote@num@bibkeys}%
8088 }%
8089 }%
8090 }
8091 %%
8092 % Macros for holding the list of cite keys until after the \sidenote
8093 \gdef\@bidituftesidenote@citations{}% list of cite keys
8094 \newcommand\@bidituftesidenote@add@citation[1]{\relax% adds a new bibkey to the list of cite
8095 \ifx\@bidituftesidenote@citations\@empty\else
8096 \g@addto@macro\@bidituftesidenote@citations{,}% separate by commas
8097 \fi
8098 \g@addto@macro\@bidituftesidenote@citations{#1}
8099 }
8100 \newcommand{\@bidituftesidenote@print@citations}[1][Opt]{% puts the citations in a margin no
8101 % Snag the last bibentry in the list for later comparison

```



```

8102 \let\@temp@last@bibkey\@empty%
8103 \@for\@temp@bibkey:=\@bidityftesidenote@citations\do{\let\@temp@last@bibkey\@temp@bibkey}%
8104 \marginpar{%
8105   \hbox{}\vspace*{#1}%
8106   \@bidityftesidenote@citation@font%
8107   \@bidityftesidenote@citation@justification%
8108   \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8109   \vspace*{-1\baselineskip}%
8110   % Loop through all the bibentries, separating them with semicolons and spaces
8111   \setcounter{\@bidityftesidenote@num@bibkeys}{0}%
8112   \@for\@temp@bibkeyx:=\@bidityftesidenote@citations\do{%
8113     \ifthenelse{\equal{\@temp@last@bibkey}{\@temp@bibkeyx}}{%
8114       {\ifthenelse{\equal{\value{\@bidityftesidenote@num@bibkeys}}{0}}{\and\ }%
8115       \@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8116       \bibentry{\@temp@bibkeyx}}%
8117       {\@bidityftesidenote@trim@spaces\@temp@bibkeyx% trim spaces around bibkey
8118       \bibentry{\@temp@bibkeyx};\ }%
8119     \stepcounter{\@bidityftesidenote@num@bibkeys}%
8120   }%
8121 }%
8122 }
8123 %%
8124 % \cite behavior when executed within a sidenote
8125 \newcommand{\@bidityftesidenote@sidenote@citations}{}% contains list of \cites in sidenote
8126 \newcommand{\@bidityftesidenote@infootnote@cite}[1]{%
8127   \@bidityftesidenote@add@citation{#1}
8128 }
8129 %%
8130 % Set the default \cite style. This is set and reset by the \sidenote command.
8131 \let\cite\@bidityftesidenote@normal@cite
8132 \let\LTRcite\@bidityftesidenote@normal@cite
8133 \let\RTLcite\@bidityftesidenote@normal@cite
8134 %%
8135 % Transform existing \footnotes into \sidenotes
8136 % Sidenote: ``Where God meant footnotes to go.''' ---bidityftesidenote
8137 \RequirePackage{optparams}% for our new sidenote commands -- provides multiple optional arguments
8138 \providecommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote@font}
8139 \renewcommand{\footnotelayout}{\@bidityftesidenote@sidenote@font\@bidityftesidenote@sidenote@font}
8140 % Override footmisc's definition to set the sidenote marks (numbers) inside the
8141 % sidenote's text block.
8142 \bidi@patch@AfterPackage{bidi}{\long\def\@makefnmark#1{\@textsuperscript{\@bidityftesidenote@font\@bidityftesidenote@font}}
8143 % Set the in-text footnote mark in the same typeface as the body text itself.
8144 \bidi@patch@AfterPackage{bidi}{\def\@makefnmark{\hbox{\@textsuperscript{\normalfont\footnote@font\@bidityftesidenote@font}}
8145 \providecommand*\multiplefootnotemark}{3sp}
8146 \providecommand*\multfootsep}{,}
8147 \bidi@patch@AfterPackage{bidi}{%
8148 \renewcommand{\footnotemark}{%
8149   \leavevmode%
8150   \ifhmode%
8151     \edef\@xsf{\the\spacefactor}%
8152     \@bidityftesidenote@check@multiple@sidenotes%
8153     \nobreak%
8154   \fi%
8155   \@makefnmark%

```



```

8156 \ifhmode\spacefactor\@x@sf\fi%
8157 \relax%
8158 }%
8159 }
8160 \newcommand{\@bidityftesidenote@check@multiple@sidenotes}{%
8161 \ifdim\lastkern=\multiplefootnotemarker\relax%
8162 \edef\@x@sf{\the\spacefactor}%
8163 \unkern%
8164 \textsuperscript{\multfootsep}%
8165 \spacefactor\@x@sf\relax%
8166 \fi
8167 }
8168 \bidi@patch@AfterPackage{bidi}{%
8169 \renewcommand\@footnotetext[2][Opt]{%
8170 \bidityftesidenotemarginpar{%
8171 \hbox{ }\vspace*{#1}%
8172 \def\baselinestretch {\setspace@singlespace}%
8173 \reset@font%
8174 \bidi@@footnotetext@font% \reset@font\footnotesize%
8175 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8176 \vspace*{-1\baselineskip}\noindent%
8177 \protected@edef\@currentlabel{%
8178 \csname p@footnote\endcsname\@thefnmark%
8179 }%
8180 \color@begingroup%
8181 \@makefntext{%
8182 \ignorespaces#2%
8183 }%
8184 \color@endgroup%
8185 }%
8186 }%
8187 \renewcommand\@LTRfootnotetext[2][Opt]{%
8188 \LTRbidityftesidenotemarginpar{%
8189 \hbox{ }\vspace*{#1}%
8190 \def\baselinestretch {\setspace@singlespace}%
8191 \reset@font%
8192 \bidi@@LTRfootnotetext@font% \reset@font\footnotesize%
8193 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8194 \vspace*{-1\baselineskip}\noindent%
8195 \protected@edef\@currentlabel{%
8196 \csname p@footnote\endcsname\@thefnmark%
8197 }%
8198 \color@begingroup%
8199 \@makefntext{%
8200 \ignorespaces#2%
8201 }%
8202 \color@endgroup%
8203 }%
8204 }%
8205 \renewcommand\@RTLfootnotetext[2][Opt]{%
8206 \RTLbidityftesidenotemarginpar{%
8207 \hbox{ }\vspace*{#1}%
8208 \def\baselinestretch {\setspace@singlespace}%
8209 \reset@font%

```





```

8210 \bidi@RTLfootnotetext@font% \reset@font\footnotesize%
8211 \@bidityftesidenote@margin@par% use parindent and parskip settings for marginal text
8212 \vspace*{-1\baselineskip}\noindent%
8213 \protected@edef\@currentlabel{%
8214     \csname p@footnote\endcsname\@thefnmark%
8215 }%
8216 \color@begingroup%
8217     \@makefntext{%
8218         \ignorespaces#2%
8219     }%
8220 \color@endgroup%
8221 }%
8222 }%
8223 }
8224 %
8225 % Define \sidenote command. Can handle \cite.
8226 \newlength{\@bidityftesidenote@sidenote@vertical@offset}
8227 \setlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}
8228 % #1 = footnote num, #2 = vertical offset, #3 = footnote text
8229 \long\def\@bidityftesidenote@sidenote[#1][#2]#3{%
8230     \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8231     \gdef\@bidityftesidenote@citations{}% clear out any old citations
8232     \ifthenelse{\NOT\isempty{#2}}{%
8233         \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8234     }{%
8235         \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8236     }%
8237     \ifthenelse{\isempty{#1}}{%
8238         % no specific footnote number provided
8239         \stepcounter\@mpfn%
8240         \protected@xdef\@thefnmark{\thempfn}%
8241         \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8242     }{%
8243         % specific footnote number provided
8244         \begingroup%
8245             \csname c@\@mpfn\endcsname #1\relax%
8246             \unrestored@protected@xdef\@thefnmark{\thempfn}%
8247         \endgroup%
8248         \@footnotemark\@footnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8249     }%
8250     \@bidityftesidenote@print@citations% print any citations
8251     \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8252     \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8253     \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8254     \unskip\ignorespaces% remove extra white space
8255     \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8256     \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8257 }
8258 \long\def\@LTRbidityftesidenote@sidenote[#1][#2]#3{%
8259     \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8260     \gdef\@bidityftesidenote@citations{}% clear out any old citations
8261     \ifthenelse{\NOT\isempty{#2}}{%
8262         \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8263     }{%

```



```

8264 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8265 }%
8266 \ifthenelse{\isempty{#1}}{%
8267 % no specific footnote number provided
8268 \stepcounter\@mpfn%
8269 \protected@xdef\@thefnmark{\thempfn}%
8270 \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8271 }{%
8272 % specific footnote number provided
8273 \begingroup%
8274 \csname c@\@mpfn\endcsname #1\relax%
8275 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8276 \endgroup%
8277 \@footnotemark\@LTRfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8278 }%
8279 \@bidityftesidenote@print@citations% print any citations
8280 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8281 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8282 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8283 \unskip\ignorespaces% remove extra white space
8284 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8285 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8286 }
8287 \long\def\@RTLbidityftesidenote@sidenote[#1][#2]#3{%
8288 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8289 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8290 \ifthenelse{\NOT\isempty{#2}}{%
8291 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{#2}%
8292 }{%
8293 \gsetlength{\@bidityftesidenote@sidenote@vertical@offset}{0pt}%
8294 }%
8295 \ifthenelse{\isempty{#1}}{%
8296 % no specific footnote number provided
8297 \stepcounter\@mpfn%
8298 \protected@xdef\@thefnmark{\thempfn}%
8299 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8300 }{%
8301 % specific footnote number provided
8302 \begingroup%
8303 \csname c@\@mpfn\endcsname #1\relax%
8304 \unrestored@protected@xdef\@thefnmark{\thempfn}%
8305 \endgroup%
8306 \@footnotemark\@RTLfootnotetext[\@bidityftesidenote@sidenote@vertical@offset]{#3}%
8307 }%
8308 \@bidityftesidenote@print@citations% print any citations
8309 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite comm
8310 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8311 \let\RTLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8312 \unskip\ignorespaces% remove extra white space
8313 \kern-\multiplefootnotemarker% remove \kern left behind by sidenote
8314 \kern\multiplefootnotemarker\relax% add new \kern here to replace the one we yanked
8315 }
8316 \newcommand{\sidenote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}
8317 \newcommand{\LTRsidenote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}

```



```

8318 \newcommand{\RTLsidenote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}
8319 \bidi@patch@AfterPackage{bidi}{%
8320 \renewcommand{\footnote}{\optparams{\@bidityftesidenote@sidenote}{[] [Opt]}}%
8321 \renewcommand{\LTRfootnote}{\optparams{\@LTRbidityftesidenote@sidenote}{[] [Opt]}}%
8322 \renewcommand{\RTLfootnote}{\optparams{\@RTLbidityftesidenote@sidenote}{[] [Opt]}}%
8323 }
8324 %%
8325 % Sidenote without the footnote mark
8326 \newcommand\marginnote[2] [Opt]{%
8327 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8328 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8329 \bidityftesidenotemarginpar{\hbox{} \vspace*{#1}}\@bidityftesidenote@marginnote@font\@bidityftesidenote@print@citations% print any citations
8330 \@bidityftesidenote@print@citations%
8331 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite command
8332 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8333 \let\RLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8334 }
8335 \newcommand\LTRmarginnote[2] [Opt]{%
8336 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8337 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8338 \LTRbidityftesidenotemarginpar{\hbox{} \vspace*{#1}}\@bidityftesidenote@LTRmarginnote@font\@bidityftesidenote@print@citations% print any citations
8339 \@bidityftesidenote@print@citations%
8340 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite command
8341 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8342 \let\RLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8343 }
8344 \newcommand\RTLmarginnote[2] [Opt]{%
8345 \let\cite\@bidityftesidenote@infootnote@cite% use the in-sidenote \cite command
8346 \gdef\@bidityftesidenote@citations{}% clear out any old citations
8347 \RTLbidityftesidenotemarginpar{\hbox{} \vspace*{#1}}\@bidityftesidenote@RTLmarginnote@font\@bidityftesidenote@print@citations% print any citations
8348 \@bidityftesidenote@print@citations%
8349 \let\cite\@bidityftesidenote@normal@cite% go back to using normal in-text \cite command
8350 \let\LTRcite\@bidityfteLTRsidenote@normal@cite% go back to using normal in-text \LTR
8351 \let\RLcite\@bidityfteRTLsidenote@normal@cite% go back to using normal in-text \RTL
8352 }

```

## 55 File bidityftetoc.sty

```

8353 \NeedsTeXFormat{LaTeX2e}
8354 \ProvidesPackage{bidityftetoc}[2011/06/17 v0.1
8355 bidi implementation of tufte toc]
8356 \RequirePackage{titlesec,titletoc,xifthen,biditytools}
8357 \newcommand{\@bidityftetoc@pkgname}{bidityftetoc}
8358 \newcommand{\bidityftetocError}[2]{\PackageError{\@bidityftetoc@pkgname}{#1}{#2}}
8359 %%
8360 % Turn off section numbering
8361 \setcounter{secnumdepth}{-1}
8362 \newboolean{\@bidityftetoc@toc}
8363 \setboolean{\@bidityftetoc@toc}{true}
8364 \DeclareOption{notoc}{\setboolean{\@bidityftetoc@toc}{false}}
8365 \DeclareOption{toc}{\setboolean{\@bidityftetoc@toc}{true}}
8366 \ProcessOptions
8367 %%
8368 % Make Tuftean-style section headings and TOC formatting

```



```

8369 \bidi@patch@AfterPackage{bidi}{%
8370 \titleformat{\chapter}%
8371 [display]% shape
8372 {\relax\ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}{\begin{fullwidth}}{}}% format
8373 {\itshape\huge\thechapter}% label
8374 {0pt}% horizontal separation between label and title body
8375 {\huge\rmfamily\itshape}% before the title body
8376 [\ifthenelse{\NOT\boolean{@biditytfloat@symmetric}}{\end{fullwidth}}{}}% after the title
8377 \titleformat{\section}%
8378 [hang]% shape
8379 {\normalfont\Large\itshape}% format applied to label+text
8380 {\thesection}% label
8381 {1em}% horizontal separation between label and title body
8382 {}% before the title body
8383 []% after the title body
8384 \titleformat{\subsection}%
8385 [hang]% shape
8386 {\normalfont\large\itshape}% format applied to label+text
8387 {\thesubsection}% label
8388 {1em}% horizontal separation between label and title body
8389 {}% before the title body
8390 []% after the title body
8391 \titleformat{\paragraph}%
8392 [runin]% shape
8393 {\normalfont\itshape}% format applied to label+text
8394 {\theparagraph}% label
8395 {1em}% horizontal separation between label and title body
8396 {}% before the title body
8397 []% after the title body
8398 \titlespacing*{\chapter}{0pt}{50pt}{40pt}
8399 \titlespacing*{\section}{0pt}{3.5ex plus 1ex minus .2ex}{2.3ex plus .2ex}
8400 \titlespacing*{\subsection}{0pt}{3.25ex plus 1ex minus .2ex}{1.5ex plus .2ex}
8401 }
8402 % Subsubsection and following section headings shouldn't be used.
8403 % See Bringhurst's _The Elements of Typography_, section 4.2.2.
8404 \renewcommand\subsubsection{%
8405 \biditytetocError{\noexpand\subsubsection is undefined by this class.%
8406 \MessageBreak See Robert Bringhurst's _The Elements of
8407 \MessageBreak Typographic Style_, section 4.2.2.
8408 \MessageBreak \noexpand\subsubsection was used}
8409 {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8410 \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8411 \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
8412 }
8413 \renewcommand\subparagraph{%
8414 \biditytetocError{\noexpand\subparagraph is undefined by this class.%
8415 \MessageBreak See Robert Bringhurst's _The Elements of
8416 \MessageBreak Typographic Style_, section 4.2.2.
8417 \MessageBreak \noexpand\subparagraph was used}
8418 {From Bringhurst's _The Elements of Typographic Style_, section 4.2.2: Use as
8419 \MessageBreak many levels of headings as you need, no more and no fewer. Also see the m
8420 \MessageBreak related threads on Ask E.T. at http://www.edwardbiditytetoc.com/.}
8421 }
8422 % Formatting for main TOC (printed in front matter)

```



```

8423 % {section} [left] {above} {before w/label} {before w/o label} {filler + page} [after]
8424 \ifthenelse{\boolean{@biditytftoc@toc}}{%
8425   \bidi@patch@AfterPackage{bidi}{%
8426     \titlecontents{part}% FIXME
8427     [0em] % distance from left margin
8428     {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global format
8429     {\contentslabel{2em}} % before w/label (label = ``II'')
8430     {} % before w/o label
8431     {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
8432     [\end{fullwidth}] % after
8433   \titlecontents{chapter}%
8434   [0em] % distance from left margin
8435   {\vspace{1.5\baselineskip}\begin{fullwidth}\LARGE\rmfamily\itshape} % above (global format
8436   {\hspace*{0em}\contentslabel{2em}} % before w/label (label = ``2'')
8437   {\hspace*{0em}} % before w/o label
8438   {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
8439   [\end{fullwidth}] % after
8440   \titlecontents{section}% FIXME
8441   [0em] % distance from left margin
8442   {\vspace{0\baselineskip}\begin{fullwidth}\Large\rmfamily\itshape} % above (global format
8443   {\hspace*{2em}\contentslabel{2em}} % before w/label (label = ``2.6'')
8444   {\hspace*{2em}} % before w/o label
8445   {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
8446   [\end{fullwidth}] % after
8447   \titlecontents{subsection}% FIXME
8448   [0em] % distance from left margin
8449   {\vspace{0\baselineskip}\begin{fullwidth}\large\rmfamily\itshape} % above (global format
8450   {\hspace*{4em}\contentslabel{4em}} % before w/label (label = ``2.6.1'')
8451   {\hspace*{4em}} % before w/o label
8452   {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
8453   [\end{fullwidth}] % after
8454   \titlecontents{paragraph}% FIXME
8455   [0em] % distance from left margin
8456   {\vspace{0\baselineskip}\begin{fullwidth}\normalsize\rmfamily\itshape} % above (global format
8457   {\hspace*{6em}\contentslabel{2em}} % before w/label (label = ``2.6.0.0.1'')
8458   {\hspace*{6em}} % before w/o label
8459   {\rmfamily\upshape\qquad\thecontentspage} % filler + page (leaders and page num)
8460   [\end{fullwidth}] % after
8461 }%
8462 {}
8463 %%
8464 % Format lists of figures/tables
8465 \renewcommand\listoffigures{%
8466   \@ifundefined{chapter}%
8467   {\section*{\listfigurename}}%
8468   {\chapter*{\listfigurename}}%
8469 % \begin{fullwidth}%
8470 % \@starttoc{lof}%
8471 % \end{fullwidth}%
8472 }
8473 \renewcommand\listoftables{%
8474   \@ifundefined{chapter}%
8475   {\section*{\listtablename}}%
8476   {\chapter*{\listtablename}}%

```



```

8477 % \begin{fullwidth}%
8478 % \starttoc{lot}%
8479 % \end{fullwidth}%
8480 }
8481 \newcommand{\@bidityfttoc@lof@line}[2]{%
8482 % #1 is the figure/table number and its caption text
8483 % #2 is the page number on which the figure/table appears
8484 \leftskip 0.0em
8485 \rightskip 0em
8486 \parfillskip 0em plus 1fil
8487 \parindent 0.0em
8488 \@afterindenttrue
8489 \interlinepenalty\@M
8490 \leavevmode
8491 \@tempdima 2.0em
8492 \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
8493 \null\nobreak\hskip -\if@RTL\rightskip\else\leftskip\fi
8494 {#1}\nobreak\quad\nobreak#2%
8495 \par%
8496 }
8497 \renewcommand*\l@figure{\@bidityfttoc@lof@line}
8498 \let\l@table\l@figure

```

## 56 File `bidityftgeneralstructure.sty`

```

8499 \NeedsTeXFormat{LaTeX2e}
8500 \ProvidesPackage{bidityftgeneralstructure}[2011/06/18 v0.1
8501 bidi implementation of tufte general structure]
8502 \renewcommand\small{%
8503   \@setfontsize\small\@ixpt{12}%
8504   \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
8505   \abovedisplayshortskip \z@ \@plus2\p@
8506   \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@
8507   \def\@listi{\leftmargin\leftmargini
8508     \topsep 4\p@ \@plus2\p@ \@minus2\p@
8509     \parsep 2\p@ \@plus\p@ \@minus\p@
8510     \itemsep \parsep}%
8511   \belowdisplayskip \abovedisplayskip
8512 }
8513 \renewcommand\scriptsize{\@setfontsize\scriptsize\@viipt\@viipt}
8514 \renewcommand\tiny{\@setfontsize\tiny\@vpt\@vpt}
8515 \renewcommand\large{\@setfontsize\large\@xipt{15}}
8516 \renewcommand\Large{\@setfontsize\Large\@xiipt{16}}
8517 \renewcommand\LARGE{\@setfontsize\LARGE\@xivpt{18}}
8518 \renewcommand\huge{\@setfontsize\huge\@xxpt{30}}
8519 \renewcommand\Huge{\@setfontsize\Huge{24}{36}}
8520 \setlength\leftmargini {1pc}
8521 \setlength\leftmarginii {1pc}
8522 \setlength\leftmarginiii {1pc}
8523 \setlength\leftmarginiv {1pc}
8524 \setlength\leftmarginv {1pc}
8525 \setlength\leftmarginvi {1pc}
8526 \setlength\labelsep {0.5pc}
8527 \setlength\labelwidth {\leftmargini}

```



```

8528 \addtolength\labelwidth{-\labelsep}
8529 \setlength{\parindent}{1.0pc}%
8530 \setlength{\parskip}{0pt}%
8531 \RequirePackage{ragged2e}
8532 \setlength{\RaggedRightRightskip}{\z@ plus 0.08\hsize}
8533 % Paragraph indentation and separation for normal text
8534 \newcommand{\@biditytgeneralstructure@reset@par}{%
8535   \setlength{\RaggedRightParindent}{1.0pc}%
8536   \setlength{\JustifyingParindent}{1.0pc}%
8537   \setlength{\parindent}{1pc}%
8538   \setlength{\parskip}{0pt}%
8539 }
8540 \@biditytgeneralstructure@reset@par
8541 % Require paralist package for tighter lists
8542 \RequirePackage{paralist}
8543 % Add rightmargin to compactenum
8544 \def\@compactenum{%
8545   \expandafter\list\csname label\@enumctr\endcsname{%
8546     \usecounter{\@enumctr}%
8547     \rightmargin=2em% added this
8548     \parsep\plparsep
8549     \itemsep\plitemsep
8550     \topsep\pltopsep
8551     \partopsep\plpartopsep
8552     \def\makelabel##1{\hss\llap{##1}}}%
8553 %%
8554 % An environment for paragraph-style section
8555 \providecommand\newthought[1]{%
8556   \addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}%
8557   \noindent\textbf{#1}%
8558 }
8559 %%
8560 % Redefine the display environments (quote, quotation, etc.)
8561 \renewenvironment{verse}
8562   {\let\\\@centercr
8563    \list{}{\itemsep \z@
8564             \itemindent -1pc%
8565             \listparindent\itemindent
8566             \rightmargin \leftmargin
8567             \advance\leftmargin 1pc}%
8568    \small%
8569    \item\relax}
8570   {\endlist}
8571 \renewenvironment{quotation}
8572   {\list{}{\listparindent 1pc%
8573            \itemindent \listparindent
8574            \rightmargin \leftmargin
8575            \parsep \z@ \@plus\p@}%
8576    \small%
8577    \item\relax\noindent\ignorespaces}
8578   {\endlist}
8579 \renewenvironment{quote}
8580   {\list{}{\rightmargin\leftmargin}%
8581    \small%

```



```

8582             \item\relax}
8583         {\endlist}
8584 % Italicize description run-in headings (instead of the default bold)
8585 \renewcommand*{\descriptionlabel[1]{\hspace\labelsep\normalfont\em #1}
8586 %%
8587 % Redefine \bibsection to not mark the running heads.
8588 % (Code modified from natbib.sty.)
8589 \@ifundefined{chapter}%
8590   {\renewcommand\bibsection{\section*{\refname}}}
8591   {\@ifundefined{NAT@sectionbib}%
8592     {\renewcommand\bibsection{\chapter{\bibname}}}
8593     {\renewcommand\bibsection{\section*{\bibname}}}}
8594 \RequirePackage{multicol}
8595 \renewenvironment{theindex}{%
8596 \@ifundefined{chapter}%
8597   {\section*{\indexname}}%
8598   {\chapter{\indexname}}%
8599 \begin{fullwidth}%
8600 \small%
8601 \parskip0pt%
8602 \parindent0pt%
8603 \let\item\@idxitem%
8604 \begin{multicols}{3}%
8605 }{%
8606 \end{multicols}%
8607 \end{fullwidth}%
8608 }
8609 \AtBeginDocument{%
8610 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi2em}%
8611 \renewcommand\subitem{\par\hangindent \if@RTL-\fi3em\hspace*{1em}}%
8612 \renewcommand\subsubitem{\par\hangindent \if@RTL-\fi4em\hspace*{2em}}
8613 \renewcommand\indexspace{\par\addvspace{1.0\baselineskip plus 0.5ex minus 0.2ex}\relax}%
8614 \newcommand{\lettergroup}[1]{% swallow the letter heading in the index

```

## 57 File `bidituftehyperref.sty`

```

8615 \NeedsTeXFormat{LaTeX2e}
8616 \ProvidesPackage{bidituftehyperref}[2011/06/18 v0.1
8617 bidi implementation of tufte hyperref]
8618 %%
8619 % Color
8620 \RequirePackage[usenames,dvipsnames,svgnames]{xcolor}%
8621 \newboolean{@bidituftehyperref@loadhyper}
8622 \setboolean{@bidituftehyperref@loadhyper}{true}
8623 \DeclareOption{hyper}{\setboolean{@bidituftehyperref@loadhyper}{true}}
8624 \DeclareOption{nohyper}{\setboolean{@bidituftehyperref@loadhyper}{false}}
8625 \ProcessOptions
8626 %% Loads the hyperref package and sets some default options.
8627 \newcommand{\bidituftehyperrefLoadHyperref}{%
8628 \RequirePackage[hyperfootnotes=false,colorlinks=true]{hyperref}
8629 \hypersetup{%
8630   bookmarksdepth = section,
8631   citecolor = DarkGreen,
8632   linkcolor = DarkBlue,

```





```

8633 %    pagecolor = DarkBlue,
8634     urlcolor = DarkGreen,
8635 }%
8636 }
8637 \ifthenelse{\boolean{@biditufttehyperref@loadhyper}}{%
8638   \biditufttehyperrefLoadHyperref%
8639 }{% hyperfootnotes override our modifications to the \footnote* and \@footnote* commands.
8640   \PassOptionsToPackage{hyperfootnotes=false}{hyperref}
8641 }

```

## 58 File biditufttetitle.sty

```

8642 \NeedsTeXFormat{LaTeX2e}
8643 \ProvidesPackage{biditufttetitle}[2011/06/18 v0.1
8644   bidi implementation of tufte title]
8645 \RequirePackage{biditools}
8646 %%
8647 % `titlepage' option -- creates a full title page with \maketitle
8648 \newboolean{@biditufttetitle@titlepage}
8649 \DeclareOption{titlepage}{\setboolean{@biditufttetitle@titlepage}{true}}
8650 \DeclareOption{notitlepage}{\setboolean{@biditufttetitle@titlepage}{false}}
8651 % Default `book' and `handout' options
8652 \ifclassloaded{book}{%
8653   \ExecuteOptions{titlepage}}{%
8654   \ifclassloaded{article}{%
8655     \ExecuteOptions{notitlepage}}%
8656 {}%
8657 \ProcessOptions
8658 %%
8659 % Modified \title, \author, and \date commands. These store the
8660 % (footnote-less) values in \plaintitle, \plainauthor, and \thedata, respectively.
8661 \newcommand{\plaintitle}{}%    plain-text-only title
8662 \newcommand{\plainauthor}{}%   plain-text-only author
8663 \newcommand{\plainpublisher}{}% plain-text-only publisher
8664 \newcommand{\thanklesstitle}{}% full title text minus \thanks{}
8665 \newcommand{\thanklessauthor}{}% full author text minus \thanks{}
8666 \newcommand{\thanklesspublisher}{}% full publisher minus \thanks{}
8667 \newcommand{\@publisher}{}% full publisher with \thanks{}
8668 \newcommand{\thedata}{\today}
8669 \bidi@patch@AfterPackage{bidi}{%
8670   \renewcommand{\thanks}[1]{\footnote{#1}}
8671   \renewcommand{\LTRthanks}[1]{\LTRfootnote{#1}}
8672   \renewcommand{\RTLthanks}[1]{\RTLfootnote{#1}}
8673 }
8674 \renewcommand{\title}[2][{}]{%
8675   \gdef\@title{#2}%
8676   \begingroup%
8677     % TODO store contents of \thanks command
8678     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8679     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8680     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8681     \protected@xdef\thanklesstitle{#2}%
8682   \endgroup%
8683   \ifthenelse{\isempty{#1}}%

```



```

8684     {\renewcommand{\plaintitle}{\thanklesstitle}}% use thankless title
8685     {\renewcommand{\plaintitle}{#1}}% use provided plain-text title
8686     \@ifundefined{hypersetup}%
8687     {}% hyperref is not loaded; do nothing
8688     {\hypersetup{pdftitle={\plaintitle}}}% set the PDF metadata title
8689 }
8690 \let\@author\@empty% suppress default latex.ltx ``no author'' warning
8691 \renewcommand{\author}[2][]{%
8692   \ifthenelse{\isempty{#2}}{\gdef\@author{#2}}%
8693   \begingroup%
8694     % TODO store contents of \thanks command
8695     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8696     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8697     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8698     \protected@xdef\thanklessauthor{#2}%
8699   \endgroup%
8700   \ifthenelse{\isempty{#1}}%
8701     {\renewcommand{\plainauthor}{\thanklessauthor}}% use thankless author
8702     {\renewcommand{\plainauthor}{#1}}% use provided plain-text author
8703   \@ifundefined{hypersetup}%
8704   {}% hyperref is not loaded; do nothing
8705   {\hypersetup{pdfauthor={\plainauthor}}}% set the PDF metadata author
8706 }
8707 \renewcommand{\date}[1]{%
8708   \gdef\@date{#1}%
8709   \begingroup%
8710     % TODO store contents of \thanks command
8711     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8712     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8713     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8714     \protected@xdef\thedata{#1}%
8715   \endgroup%
8716 }
8717 %%
8718 % Provides a \publisher command to set the publisher
8719 \newcommand{\publisher}[2][]{%
8720   \gdef\@publisher{#2}%
8721   \begingroup%
8722     \renewcommand{\thanks}[1]{}% swallow \thanks contents
8723     \renewcommand{\LTRthanks}[1]{}% swallow \LTRthanks contents
8724     \renewcommand{\RTLthanks}[1]{}% swallow \RTLthanks contents
8725     \protected@xdef\thanklesspublisher{#2}%
8726   \endgroup%
8727   \ifthenelse{\isempty{#1}}%
8728     {\renewcommand{\plainpublisher}{\thanklesspublisher}}% use thankless publisher
8729     {\renewcommand{\plainpublisher}{#1}}% use provided plain-text publisher
8730 }
8731 %%
8732 % Produces a full title page
8733 \newcommand{\maketitlepage}[0]{%
8734   \cleardoublepage%
8735   {%
8736     \bfseries%
8737     \begin{fullwidth}%

```



```

8738 \fontsize{18}{20}\selectfont\par\noindent\thanklessauthor%
8739 \vspace{11.5pc}%
8740 \fontsize{36}{40}\selectfont\par\noindent\thanklesstitle%
8741 \vfill%
8742 \fontsize{14}{16}\selectfont\par\noindent\thanklesspublisher%
8743 \end{fullwidth}%
8744 }
8745 \thispagestyle{empty}%
8746 \clearpage%
8747 }
8748 %%
8749 % Title block
8750 \bidi@AfterEndPreamble{%
8751 \renewcommand{\maketitle}{%
8752 \newpage%
8753 \global\@topnum\z@% prevent floats from being placed at the top of the page
8754 \begin{group}%
8755 \setlength{\parindent}{0pt}%
8756 \setlength{\parskip}{4pt}%
8757 \let\@title\@empty%
8758 \let\@author\@empty%
8759 \let\@date\@empty%
8760 \gdef\@title{\LARGE\itshape\@title\par}%
8761 \gdef\@author{\Large\itshape\@author\par}%
8762 \gdef\@date{\Large\itshape\@date\par}%
8763 \@title%
8764 \@author%
8765 \@date%
8766 \end{group}%
8767 \thispagestyle{plain}% suppress the running head
8768 }%
8769 }
8770 %%
8771 % Title page (if the 'titlepage' option was passed to the bidentuftetitle-handout
8772 % class.)
8773 \bidi@AfterEndPreamble{%
8774 \ifthenelse{\boolean{@bidentuftetitle@titlepage}}{
8775 {\renewcommand{\maketitle}{\maketitlepage}}
8776 {}
8777 }
8778 %%
8779 % When \cleardoublepage is called, produce a blank (empty) page -- i.e.,
8780 % without headers and footers
8781 \def\cleardoublepage{\clearpage\if@twoside\ifodd\c@page\else
8782 \hbox{}
8783 %\vspace*{\fill}
8784 %\begin{center}
8785 % This page intentionally contains only this sentence.
8786 %\end{center}
8787 %\vspace{\fill}
8788 \thispagestyle{empty}
8789 \newpage
8790 \if@twocolumn\hbox{}\newpage\fi\fi\fi}

```



## 59 File `biditufte-handout.cls`

```
8791 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8792 \ProvidesClass{biditufte-handout}[2011/06/18 v0.1 biditufte-handout class]
8793 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
8794 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
8795 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}
8796 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftehyperref}}
8797 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetitle}}
8798 \ProcessOptions\relax
8799 \LoadClass{article}
8800 \RequirePackage{bidituftefloat}
8801 \RequirePackage{bidituftesidenote}
8802 \RequirePackage{bidituftetoc}
8803 \RequirePackage{bidituftegeneralstructure}
8804 \RequirePackage{bidituftehyperref}
8805 \RequirePackage{bidituftetitle}
8806 \renewenvironment{abstract}
8807   {\begin{quotation}}
8808   {\end{quotation}}
8809 \AtBeginDocument{%
8810 \IfFileExists{biditufte-handout.cfg}
8811   {\input{biditufte-handout.cfg}
8812     \ClassInfo{biditufte-handout}{Loading biditufte-handout configuration file \@gobble}}
8813   {}%
8814 }
```

## 60 File `biditufte-book.cls`

```
8815 \NeedsTeXFormat{LaTeX2e}[1994/06/01]
8816 \ProvidesClass{biditufte-book}[2011/06/18 v0.1 biditufte-book class]
8817 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{book}}
8818 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftefloat}}
8819 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetoc}}
8820 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftehyperref}}
8821 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{bidituftetitle}}
8822 \ProcessOptions\relax
8823 \LoadClass{book}
8824 \RequirePackage{bidituftefloat}
8825 \RequirePackage{bidituftesidenote}
8826 \RequirePackage{bidituftetoc}
8827 \RequirePackage{bidituftegeneralstructure}
8828 \RequirePackage{bidituftehyperref}
8829 \RequirePackage{bidituftetitle}
8830 %%
8831 % Set up any book-specific stuff now
8832 %%
8833 % The front matter in Tufte's /Beautiful Evidence/ contains everything up
8834 % to the opening page of Chapter 1. The running heads, when they appear,
8835 % contain only the (arabic) page number in the outside corner.
8836 %\newif\if@mainmatter \@mainmattertrue
8837 \renewcommand\frontmatter{%
8838   \cleardoublepage%
8839   \@mainmatterfalse%
```



```

8840 \pagenumbering{arabic}%
8841 %\pagestyle{plain}%
8842 \fancyhf{}%
8843 \ifthenelse{\boolean{@bidituftefloat@twoside}}%
8844 {\fancyhead[LE,RO]{\thepage}}%
8845 {\fancyhead[RE,RO]{\thepage}}%
8846 }
8847 %%
8848 % The main matter in Tufte's /Beautiful Evidence/ doesn't restart the page
8849 % numbering---it continues where it left off in the front matter.
8850 \renewcommand\mainmatter{%
8851 \cleardoublepage%
8852 \@mainmattertrue%
8853 \fancyhf{}%
8854 \ifthenelse{\boolean{@bidituftefloat@twoside}}%
8855 {\renewcommand{\chaptermark}[1]{\markboth{##1}{}}}%
8856 \fancyhead[LE]{\thepage\quad\smallcaps{\newlinetospace{\plaintitle}}}% book title
8857 \fancyhead[RO]{\smallcaps{\newlinetospace{\leftmark}}\quad\thepage}% chapter title
8858 {\fancyhead[RE,RO]{\smallcaps{\newlinetospace{\plaintitle}}\quad\thepage}}% book title
8859 }
8860 %%
8861 % The back matter contains appendices, indices, glossaries, endnotes,
8862 % bibliographies, list of contributors, illustration credits, etc.
8863 \renewcommand\backmatter{%
8864 \if@openright%
8865 \cleardoublepage%
8866 \else%
8867 \clearpage%
8868 \fi%
8869 \@mainmatterfalse%
8870 }
8871 %%
8872 % Only show the chapter titles in the table of contents
8873 \setcounter{tocdepth}{0}
8874 \AtBeginDocument{%
8875 \IfFileExists{biditufte-book.cfg}
8876 {\input{biditufte-book.cfg}
8877 \ClassInfo{biditufte-book}{Loading biditufte-book configuration file \@gobble}}
8878 {}%
8879 }

```

## 61 File bidipoem.sty

```

8880 \NeedsTeXFormat{LaTeX2e}
8881 \ProvidesPackage{bidipoem}%
8882 [2019/03/03 v1.0 Environments for typesetting Persian traditional and modern poems]
8883
8884 % Usage:
8885 %
8886 % \Setversedim #1#2 % define the layout (within a group):
8887 % #1 = length of both half-verses
8888 % #2 = separation distance = length of a connection, if present
8889 % Variant:
8890 % \Setversedim #1[#2]#3 % for half-verses of unequal length

```



```

8891 % #1 = length of first (=right) half-verse
8892 % #2 = length of second (=left) half-verse
8893 % #3 = separation distance = length of a connection, if present
8894 %
8895 % \traditionalhalfverses #1#2 % typeset two separated half-verses
8896 % #1 = text of first (=right) half-verse
8897 % #2 = text of second (=left) half-verse
8898 % Variant:
8899 % \traditionalhalfverses #1[#2]#3 % typeset two connected half-verses
8900 % #1 = text of first (=right) half-verse
8901 % #2 = text of connection
8902 % #3 = text of second (=left) half-verse
8903 %
8904 % Alternative (if preferred):
8905 %
8906 % \traditionalconnverses #1#2#3 % = \traditionalhalfverses #1[#2]#3
8907
8908
8909 \newcommand*{\bidipoem@spreadbox}[2]{\hbox to #1{#2}}
8910
8911 % define the layout, verses will be centered
8912
8913 \newdimen \bidipoem@hvlen \newdimen \bidipoem@hvsep
8914 \newdimen \bidipoem@hvind \newdimen \bidipoem@@hvlen
8915
8916 \newcommand*{\Setversesdim}[2]{% set lengths of half-verse, [separation]
8917 \bidipoem@hvind \textwidth
8918 \bidipoem@hvlen #1\relax \advance \bidipoem@hvind -\bidipoem@hvlen
8919 \ifx [#2\def \bidipoem@next {\bidipoem@set@verseI []}\else
8920 \bidipoem@@hvlen \bidipoem@hvlen \def \bidipoem@next {\bidipoem@set@@verse {#2}}\fi \bidipoem@
8921
8922 \def \bidipoem@set@verseI [#1]{% optional parameter
8923 \bidipoem@@hvlen #1\relax \bidipoem@set@@verse }
8924
8925 \newcommand*{\bidipoem@set@@verse}[1]{% separation
8926 \advance \bidipoem@hvind -\bidipoem@@hvlen \bidipoem@hvsep #1\relax
8927 \advance \bidipoem@hvind -\bidipoem@hvsep \divide \bidipoem@hvind 2 }
8928
8929 \newcommand*{\traditionalconnverses}[3]{% first half-verse, connection, second half-verse
8930 \ifdim Opt > \bidipoem@hvind %
8931 \bidipoem@spreadbox \bidipoem@hvlen {#1}\ \hfill % first block
8932 \else
8933 \noindent \hskip \bidipoem@hvind \relax \bidipoem@spreadbox \bidipoem@hvlen {#1}\fi
8934 \bidipoem@spreadbox \bidipoem@hvsep {#2}% separator
8935 \bidipoem@spreadbox \bidipoem@@hvlen {#3}% second block
8936 \par }
8937
8938 % macro for two half verses
8939 \newcommand*{\traditionalhalfverses}[2]{% optional parameter?
8940 \ifx [#2\def \bidipoem@half@verses@next {\bidipoem@half@verses {#1}[]}%
8941 \else \def \bidipoem@half@verses@next {\bidipoem@half@verses {#1}[\hfill]{#2}}\fi%
8942 \bidipoem@half@verses@next}
8943
8944 \def \bidipoem@half@verses #1[#2]#3{% first[mid]second

```



```

8945 \traditionalconnverses {#1}{#2}{#3}}
8946
8947
8948 {\catcode\^^M=\active % these lines must end with %
8949 \gdef\traditionalpoem@obeylines{\catcode\^^M\active \let^^M\traditionalpoem@par}%
8950 \global\let^^M\traditionalpoem@par} % this is in case ^^M appears in a \write
8951 {\catcode\^^M=\active % these lines must end with %
8952 \gdef\modernpoem@obeylines{\catcode\^^M\active \let^^M\modernpoem@par}%
8953 \global\let^^M\modernpoem@par} % this is in case ^^M appears in a \write
8954 \def\poemcolsepskip{.1\versewidth plus .1\versewidth minus .05\versewidth}
8955 \def\poemmarginskip{1em plus 1fil minus 1em}
8956 \def\poemextrabaselineskip{0\baselineskip}
8957 \def\poemskip{\medskip}
8958 \newcommand{\bidipoem@openbox}{\leavevmode
8959 \hbox to.77778em{%
8960 \hfil\vrule
8961 \vbox to.675em{\hrule width.6em\vfil\hrule}%
8962 \vrule\hfil}}
8963 \def\poemblocksep{\quad\hbox{\bidipoem@openbox}}
8964 \newdimen\versewidth
8965 \newtoks\bidipoem@p@ftn
8966 \def\poem@verse#1{%
8967 \ifdim\wd#1>\new@poem@width
8968 \xdef\new@poem@width{\the\wd#1}%
8969 \ifdim\new@poem@width>\poem@width
8970 \xdef\poem@width{\new@poem@width}%
8971 \global\let\poem@needrun\relax
8972 \fi
8973 \fi
8974 \hbox to\poem@width{\unhbox#1}%
8975 \global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn%
8976 }
8977 \def\poem@linebegin{\vadjust{}\hskip\@flushglue\hskip\poemmarginskip\relax}
8978 \def\poem@lineend{\nobreak\hskip\poemmarginskip\hskip\@flushglue\vadjust{}}
8979 \def\poem@lineversesep{%
8980 \nobreak
8981 \hskip\z@ plus 1filll%
8982 \penalty600%
8983 \hskip\poemcolsepskip
8984 \hskip\z@ plus -2filll%
8985 \vadjust{}}%
8986 \nobreak
8987 \hskip\z@ plus 1filll%
8988 }
8989 \def\poem@lineparsebegin{%
8990 \halign\bgroup
8991 \global\setbox\verse@i=\hbox{%
8992 \let\@footnotetext\bidipoem@p@ftntext%
8993 \let\@LTrfootnotetext\bidipoem@p@LTRftntext%
8994 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
8995 \let\@xfootnotenext\bidipoem@p@xftntext%
8996 \let\@xfootnote\bidipoem@p@xfootnote%
8997 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
8998 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%

```



```

8999 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9000 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9001 \ignorespaces##\unskip}&&
9002 \global\setbox\verse@ii=\hbox{%
9003 \let\@footnotetext\bidipoem@p@ftntext%
9004 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9005 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9006 \let\@xfootnotenext\bidipoem@p@xftntext%
9007 \let\@xfootnote\bidipoem@p@xfootnote%
9008 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9009 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9010 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9011 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9012 \ignorespaces##\unskip}
9013 \cr
9014 }
9015 \def\poem@lineparseend{%
9016 \crr\egroup
9017 \vskip-\baselineskip
9018 }
9019 \def\traditionalpoem@cr{%
9020 \cr\poem@line
9021 }
9022 \newbox\verse@i
9023 \newbox\verse@ii
9024 \newif\ifpoem@started
9025
9026 \def\poem@line{%
9027 \poem@lineparseend
9028 \ifdim\wd\verse@i>\z@\global\poem@startedtrue\fi
9029 \ifdim\wd\verse@ii>\z@\global\poem@startedtrue\fi
9030 \ifpoem@started
9031 \ifdim\wd\verse@ii>\z@\else
9032 \nopagebreak[3]
9033 \fi
9034 \leavevmode
9035 \poem@linebegin
9036 \poem@verse\verse@i
9037 \ifdim\wd\verse@ii>\z@
9038 \poem@lineversesep
9039 \poem@verse\verse@ii
9040 \fi
9041 \poem@lineend
9042 % \nopagebreak
9043 \par
9044 \vskip\poemextrabaselineskip
9045 \fi
9046 \poem@lineparsebegin
9047 }
9048 \def\@traditionalpoem{%
9049 \stepcounter{poem@no}
9050 \ifnum\max@poem@no<\number\c@poem@no%
9051 \xdef\poem@width{\z@}%
9052 \else

```





```

9053 \xdef\poem@width{\poem@prop{poem@width}}%
9054 \fi
9055 \xdef\new@poem@width{\z@}%
9056 \global\versewidth=\poem@width
9057 \poemskip\par
9058 \begingroup
9059 \tabskip=\z@
9060 \parskip=\z@
9061 \parindent=\z@
9062 \parfillskip=\z@
9063 \rightskip=\z@
9064 \leftskip=\z@
9065 \widowpenalty=10000% No break between verses of the same line.
9066 \clubpenalty=10000% Same as above. Not really needed.
9067 \def\newblock{\hfil\poemblocksep\hfil\null}%
9068 \def\traditionalpoem@par{\traditionalpoem@cr}% Redefine \par for possible \obeylines
9069 \def\{\global\poem@startedtrue\traditionalpoem@cr}%
9070 \global\poem@startedfalse
9071 \csname poem@obeylines\endcsname
9072 \let\poem@obeylines\relax
9073 \poem@lineparsebegin
9074 }
9075 \def\endtraditionalpoem{%
9076 \cr
9077 \ifdim\wd\verse@i>\z@\poem@line\else\ifdim\wd\verse@ii>\z@\poem@line\else
9078 \noalign{%
9079 \skip0=\poemextrabaselineskip
9080 \vskip-\skip0
9081 \vskip-\baselineskip
9082 }%
9083 \fi\fi
9084 \poem@lineparseend
9085 \endgroup
9086 \par
9087 \vskip\baselineskip
9088 \poemskip
9089 \ifdim\new@poem@width<\poem@width
9090 \global\let\poem@needrun\relax
9091 \fi
9092 \poem@write@aux{poem@width\romannumeral\c@poem@no}{\new@poem@width}%
9093 \ifx\AtEndDocument\undefined\poem@finish\fi
9094 \@endparenv
9095 }
9096
9097
9098 \long\def\bidipoem@p@ftntext#1{%
9099 \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\footnotetext[\the\csname c@\mpfn\endcsname]]}%
9100 \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
9101 \long\def\bidipoem@p@LTRftntext#1{%
9102 \edef\@tempxi{\the\bidipoem@p@ftn\noexpand\LTRfootnotetext[\the\csname c@\mpfn\endcsname]]}%
9103 \global\bidipoem@p@ftn\expandafter{\@tempxi{#1}}}%
9104 \long\def\bidipoem@p@RTLftntext#1{%
9105 \edef\@tempxii{\the\bidipoem@p@ftn\noexpand\RTLfootnotetext[\the\csname c@\mpfn\endcsname]]}%
9106 \global\bidipoem@p@ftn\expandafter{\@tempxii{#1}}}%

```



```

9107
9108 \long\def\bidipoem@p@xftntext[#1]#2{%
9109   \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\footnotetext[#1]{#2}}
9110
9111 \long\def\bidipoem@p@xLTRftntext[#1]#2{%
9112   \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\LTRfootnotetext[#1]{#2}}
9113
9114 \long\def\bidipoem@p@xRTLftntext[#1]#2{%
9115   \global\bidipoem@p@ftn\expandafter{\the\bidipoem@p@ftn\RTLfootnotetext[#1]{#2}}
9116
9117 \def\bidipoem@p@xfootnote[#1]{%
9118   \begingroup
9119     \csname c@\mpfn\endcsname #1\relax
9120     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9121   \endgroup
9122   \@footnotemark\bidipoem@p@xftntext[#1]}
9123
9124 \def\bidipoem@p@xLTRfootnote[#1]{%
9125   \begingroup
9126     \csname c@\mpfn\endcsname #1\relax
9127     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9128   \endgroup
9129   \@footnotemark\bidipoem@p@xLTRftntext[#1]}
9130
9131 \def\bidipoem@p@xRTLfootnote[#1]{%
9132   \begingroup
9133     \csname c@\mpfn\endcsname #1\relax
9134     \unrestored@protected@xdef\@thefnmark{\thempfn}%
9135   \endgroup
9136   \@footnotemark\bidipoem@p@xRTLftntext[#1]}
9137
9138
9139
9140 \newenvironment{traditionalpoem}{\@traditionalpoem}{\@endtraditionalpoem}
9141 \expandafter\def\csname traditionalpoem*\endcsname{\let\poem@obeylines=\traditionalpoem@obey
9142 \expandafter\def\csname endtraditionalpoem*\endcsname{\endtraditionalpoem}
9143 \def\poem@finish{%
9144 \poem@write@aux{max@poem@no}{\number\c@poem@no}%
9145 \ifx\poem@needrun\relax
9146 \PackageWarning{bidipoem}{Unjustified poem. Rerun TeX to get poem right}%
9147 \global\let\poem@needrun\undefined
9148 \fi
9149 }
9150 \ifx\AtEndDocument\undefined\else\AtEndDocument\poem@finish\fi
9151 \newcounter{poem@no}\setcounter{poem@no}{\z@}
9152 \ifx\max@poem@no\undefined
9153   \def\max@poem@no{0}%
9154 \fi
9155 \newcommand{\poem@prop}[1]{\@nameuse{#1\romannumeral\c@poem@no}}
9156 \newcommand{\poem@write@aux}[2]{%
9157   \def\x{\immediate\write\@auxout{\global\noexpand\@namedef{#1}{#2}}}%
9158   \x
9159 }
9160 \def\@modernpoem{%

```



```

9161 \par
9162 \begingroup
9163 \parskip=\z@
9164 \parindent=\z@
9165 \def\[{ \settab\@tabplus\ignorespaces}%
9166 \def\] { \settab\@tabminus\ignorespaces}%
9167 \def\newblock { \poemblocksep}%
9168 \let\newpoem\@tabcr\@tabcr
9169 \def\modernpoem\par { % Redefine \par for possible \obeylines
9170   \ifpoem@started\else
9171     \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9172       \@stopfield
9173       \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9174       \@contfield
9175     \fi
9176   \fi
9177   \ifpoem@started\newpoem\@tabcr\fi}%
9178 \def\@tabcr { \global\poem@startedtrue\newpoem\@tabcr}%
9179 \global\poem@startedfalse
9180 \csname poem@obeylines\endcsname
9181 \let\poem@obeylines\relax
9182 \begin{tabbing}%
9183 }
9184 \def\@endmodernpoem { %
9185 \global\poem@startedfalse
9186 \ifdim\wd\@curline>\z@\global\poem@startedtrue\else
9187   \@stopfield
9188   \ifdim\wd\@curfield>\z@\global\poem@startedtrue\fi
9189   \@contfield
9190 \fi
9191 \ifpoem@started\else\let\@stopline\@stopfield\fi
9192 \end{tabbing}%
9193 \endgroup
9194 \par
9195 \if@nparlist \else
9196   \ifdim\lastskip >\z@
9197     \@tempskipa\lastskip \vskip -\lastskip
9198     \advance\@tempskipa\parskip \advance\@tempskipa -\@outerparskip
9199     \vskip\@tempskipa
9200   \fi
9201   \@endparenv
9202 \fi
9203 }
9204 \newenvironment{modernpoem} { \@modernpoem } { \@endmodernpoem }
9205 \expandafter\def\csname modernpoem*\endcsname { \let\poem@obeylines=\modernpoem@obeylines\mode
9206 \expandafter\def\csname endmodernpoem*\endcsname { \endmodernpoem }
9207 \gdef\@startfield { %
9208 \global\setbox\@curfield\hbox\bgroup%
9209 \let\@footnotetext\bidipoem@p@ftntext%
9210 \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9211 \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9212 \let\@xfootnotenext\bidipoem@p@xftntext%
9213 \let\@xfootnote\bidipoem@p@xfootnote%
9214 \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%

```



```

9215 \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9216 \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9217 \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9218 \color@begingroup}
9219 \gdef\@stopfield{%
9220   \color@endgroup\egroup\global\bidipoem@p@ftn\expandafter{\expandafter}\the\bidipoem@p@ftn}
9221 \gdef\@contfield{%
9222   \global\setbox\@curfield\hbox\bgroup%
9223   \let\@footnotetext\bidipoem@p@ftntext%
9224   \let\@LTRfootnotetext\bidipoem@p@LTRftntext%
9225   \let\@RTLfootnotetext\bidipoem@p@RTLftntext%
9226   \let\@xfootnotenext\bidipoem@p@xftntext%
9227   \let\@xfootnote\bidipoem@p@xfootnote%
9228   \let\@xLTRfootnotenext\bidipoem@p@xLTRftntext%
9229   \let\@xLTRfootnote\bidipoem@p@xLTRfootnote%
9230   \let\@xRTLfootnotenext\bidipoem@p@xRTLftntext%
9231   \let\@xRTLfootnote\bidipoem@p@xRTLfootnote%
9232 \color@begingroup\unhbox\@curfield}

```

## 62 File boek3-xetex-bidi.def

```

9233 \ProvidesFile{boek3-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek3 class for XeT
9234 \renewenvironment{theindex}{%
9235   \if@twocolumn
9236     \@restonecolfalse
9237   \else
9238     \@restonecoltrue
9239   \fi
9240   \columnseprule \z@
9241   \columnsep 35\p@
9242   \twocolumn[\@makeschapterhead{\indexname}]%
9243   \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9244   \thispagestyle{plain}\parindent\z@
9245   \parskip\z@ \@plus .3\p@\relax
9246   \let\item\@idxitem
9247 }{%
9248   \if@restonecol\onecolumn\else\clearpage\fi}
9249 \renewcommand*\head@style{%
9250   \interlinepenalty \@M
9251   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9252   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9253 \renewcommand*\@regtocline[3]{%
9254   \ifnum #1>\c@tocdepth
9255   \else
9256     \vskip\z@\@plus.2\p@
9257     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9258     \if@RTL\rightskip\else\leftskip\fi\unitindent
9259     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9260     \parfillskip\z@
9261     \@tempdima\unitindent
9262     \parindent\z@
9263     \leavevmode
9264     \hbox{} \hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9265     \hskip 1em \nobreak{\slshape #3}\par

```



```

9266     }%
9267 \fi}
9268 \if@oldtoc
9269 \renewcommand*\l@part[2]{%
9270   \ifnum \c@tocdepth >-2\relax
9271     \addpenalty{-\@highpenalty}%
9272     \addvspace{2.25em \@plus\p@}%
9273     \begingroup
9274       \setlength\@tempdima{3em}%
9275       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9276       \parfillskip -\@pnumwidth
9277       {\leavevmode
9278         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9279         \nobreak
9280         \global\@nobreaktrue
9281         \everypar{\global\@nobreakfalse\everypar{}}%
9282       \endgroup
9283 \fi}
9284 \else
9285   \renewcommand*\l@part{%
9286     \ifnum \c@tocdepth >-2\relax
9287       \addpenalty{-\@highpenalty}%
9288       \addvspace{2.25em \@plus \p@}%
9289       \regtocline{0}%
9290     \fi}
9291 \fi
9292 \if@oldtoc
9293 \renewcommand*\l@chapter[2]{%
9294   \addpenalty{-\@highpenalty}%
9295   \vskip 1.0em \@plus\p@
9296   \setlength\@tempdima{1.5em}%
9297   \begingroup
9298   \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9299   \parfillskip -\@pnumwidth
9300   \leavevmode \bfseries
9301   \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9302   \hskip -\if@RTL\rightskip\else\leftskip\fi
9303   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9304   \penalty\@highpenalty
9305   \endgroup}
9306 \else
9307   \renewcommand*\l@chapter{\@regtocline{0}}
9308 \fi
9309 \renewenvironment{abstract}{%
9310   \titlepage
9311   \null\vfil
9312   \section*{\SectFont \abstractname}
9313   \noindent\ignorespaces}
9314   {\par\vfil\null\endtitlepage}
9315 \renewenvironment{thebibliography}[1]
9316   {\chapter*{\bibname}%
9317     \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9318     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9319     \bidi@thebibliography@font@hook%

```



```

9320 \list{\@biblabel{\@arabic\c@enumiv}}%
9321 {\settowidth\labelwidth{\@biblabel{#1}}%
9322 \leftmargin\labelwidth
9323 \advance\leftmargin\labelsep
9324 \openbib@code
9325 \usecounter{enumiv}}%
9326 \let\p@enumiv\@empty
9327 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9328 \sloppy\clubpenalty4000\widowpenalty4000%
9329 \sfcode\.\@m}
9330 {\def\@noitemerr
9331 {\@latex@warning{Empty `thebibliography' environment}}}%
9332 \endlist}
9333 \renewcommand*\left@footnoterule{%
9334 \kern-3\p@
9335 \kern.5\baselineskip
9336 \hrule\@width\unitindent
9337 \kern.4\baselineskip
9338 }
9339 \renewcommand*\right@footnoterule{%
9340 \kern-3\p@
9341 \kern.5\baselineskip
9342 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9343 \kern.4\baselineskip}
9344 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9345 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9346 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9347 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9348 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9349 \renewcommand*\theequation{%
9350 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9351 \renewcommand*\thefigure{%
9352 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9353 \renewcommand*\thetable{%
9354 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9355 \renewcommand*\maketitle{%
9356 \begin{titlepage}%
9357 \let\footnotesize\small
9358 \let\right@footnoterule\relax
9359 \let\left@footnoterule\relax
9360 \let\textwidth\footnoterule\relax
9361 \let \footnote \thanks
9362 \long\def\@makefntext##1{\parindent\z@
9363 \def\labelitemi{\textendash}\@revlabeltrue
9364 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9365 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9366 \ifcompatibility\setcounter{page}{0}\fi
9367 \null\vfil
9368 \vskip 60\p@
9369 \begin{center}%
9370 \TitleFont
9371 {\LARGE \def\\{\penalty -\@M}
9372 \ifallcaps
9373 \expandafter\uc@nothanks\@title\thanks\relax

```



```

9374         \else
9375             \@title
9376         \fi\par}%
9377     \vskip 3em%
9378     {\large
9379         \lineskip .75em \parindent\z@
9380         \begin{tabular}[t]{c}%
9381             \if@allcaps
9382                 \expandafter\uc@authornothanks\@author\and\relax
9383             \else
9384                 \@author
9385             \fi
9386         \end{tabular}\par}%
9387     \vskip 1.5em%
9388     {\large
9389         \if@allcaps
9390             \uppercase\expandafter{\@date}%
9391         \else
9392             \@date
9393         \fi\par}%
9394     \end{center}\par
9395     \@thanks
9396     \vfil\null
9397 \end{titlepage}%
9398 \setcounter{footnote}{0}%
9399 \global\let\thanks\relax
9400 \global\let\maketitle\relax
9401 \global\let\@thanks\@empty
9402 \global\let\@author\@empty
9403 \global\let\@title\@empty
9404 \global\let\@date\@empty
9405 \global\let\title\relax
9406 \global\let\author\relax
9407 \global\let\date\relax
9408 \global\let\and\relax
9409 }

```

## 63 File boek-xetex-bidi.def

```

9410 \ProvidesFile{boek-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for boek class for XeTeX]
9411 \renewenvironment{theindex}{%
9412     \if@twocolumn
9413         \@restonecolfalse
9414     \else
9415         \@restonecoltrue
9416     \fi
9417     \columnseprule \z@
9418     \columnsep 35\p@
9419     \twocolumn[\@makeschapterhead{\indexname}]%
9420     \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
9421     \thispagestyle{plain}\parindent\z@
9422     \parskip\z@ \@plus .3\p@\relax
9423     \let\item\@idxitem
9424 }{%

```



```

9425 \if@restonecol\onecolumn\else\clearpage\fi}
9426 \renewcommand*\head@style{%
9427   \interlinepenalty \@M
9428   \hyphenpenalty=\@M \exhyphenpenalty=\@M
9429   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
9430 \renewcommand*\@regtocline[3]{%
9431   \ifnum #1>\c@tocdepth
9432   \else
9433     \vskip\z@\@plus.2\p@
9434     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
9435     \if@RTL\rightskip\else\leftskip\fi\unitindent
9436     \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
9437     \parfillskip\z@
9438     \@tempdima\unitindent
9439     \parindent\z@
9440     \leavevmode
9441     \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
9442     \hskip 1em \nobreak{\slshape #3}\par
9443   }%
9444 \fi}
9445 \if@oldtoc
9446 \renewcommand*\l@part[2]{%
9447   \ifnum \c@tocdepth >-2\relax
9448     \addpenalty{-\@highpenalty}%
9449     \addvspace{2.25em \@plus\p@}%
9450     \begingroup
9451       \setlength\@tempdima{3em}%
9452       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9453       \parfillskip -\@pnumwidth
9454       {\leavevmode
9455         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
9456         \nobreak
9457         \global\@nobreaktrue
9458         \everypar{\global\@nobreakfalse\everypar{}}%
9459       \endgroup
9460 \fi}
9461 \else
9462   \renewcommand*\l@part{%
9463     \ifnum \c@tocdepth >-2\relax
9464       \addpenalty{-\@highpenalty}%
9465       \addvspace{2.25em \@plus \p@}%
9466       \@regtocline{0}%
9467     \fi}
9468 \fi
9469 \if@oldtoc
9470 \renewcommand*\l@chapter[2]{%
9471   \addpenalty{-\@highpenalty}%
9472   \vskip 1.0em \@plus\p@
9473   \setlength\@tempdima{1.5em}%
9474   \begingroup
9475     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9476     \parfillskip -\@pnumwidth
9477     \leavevmode \bfseries
9478     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima

```





```

9479 \hskip -\if@RTL\rightskip\else\leftskip\fi
9480 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
9481 \penalty\@highpenalty
9482 \endgroup}
9483 \else
9484 \renewcommand*\l@chapter{\@regtocline{0}}
9485 \fi
9486 \renewcommand*\left@footnoterule{%
9487 \kern-3\p@
9488 \kern.5\baselineskip
9489 \hrule\@width\unitindent
9490 \kern.4\baselineskip
9491 }
9492 \renewcommand*\right@footnoterule{%
9493 \kern-3\p@
9494 \kern.5\baselineskip
9495 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
9496 \kern.4\baselineskip}
9497 \renewenvironment{abstract}{%
9498 \titlepage
9499 \null\vfil
9500 \section*\SectFont \abstractname}
9501 \noindent\ignorespaces}
9502 {\par\vfil\null\endtitlepage}
9503 \renewenvironment{thebibliography}[1]
9504 {\chapter*{\bibname}%
9505 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9506 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9507 \bidi@thebibliography@font@hook%
9508 \list{\@biblabel{\@arabic\c@enumiv}}%
9509 {\settowidth\labelwidth{\@biblabel{#1}}%
9510 \leftmargin\labelwidth
9511 \advance\leftmargin\labelsep
9512 \@openbib@code
9513 \usecounter{enumiv}%
9514 \let\p@enumiv\@empty
9515 \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
9516 \sloppy\clubpenalty4000\widowpenalty4000%
9517 \sfcode\.\@m}
9518 {\def\@noitemerr
9519 {\@latex@warning{Empty `thebibliography' environment}}}%
9520 \endlist}
9521 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
9522 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
9523 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
9524 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
9525 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
9526 \renewcommand*\theequation{%
9527 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
9528 \renewcommand*\thefigure{%
9529 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
9530 \renewcommand*\thetable{%
9531 \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
9532 \renewcommand*\maketitle{%

```



```

9533 \begin{titlepage}%
9534   \let\footnotesize\small
9535   \let\right@footnoterule\relax
9536   \let\left@footnoterule\relax
9537   \let\textwidth@footnoterule\relax
9538   \let \footnote \thanks
9539   \long\def\@makefntext##1{\parindent\z@
9540     \def\labelitemi{\textendash}\@revlabeltrue
9541     \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
9542   \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
9543   \if@compatibility\setcounter{page}{0}\fi
9544   \null\vfil
9545   \vskip 60\p@
9546   \begin{center}%
9547     \TitleFont
9548     {\LARGE \def\\{\penalty -\@M}
9549       \if@allcaps
9550         \expandafter\uc@nothanks\@title\thanks\relax
9551       \else
9552         \@title
9553       \fi\par}%
9554   \vskip 3em%
9555   {\large
9556     \lineskip .75em \parindent\z@
9557     \begin{tabular}[t]{c}%
9558       \if@allcaps
9559         \expandafter\uc@authornothanks\@author\and\relax
9560       \else
9561         \@author
9562       \fi
9563     \end{tabular}\par}%
9564   \vskip 1.5em%
9565   {\large
9566     \if@allcaps
9567       \uppercase\expandafter{\@date}%
9568     \else
9569       \@date
9570     \fi\par}%
9571   \end{center}\par
9572   \@thanks
9573   \vfil\null
9574 \end{titlepage}%
9575 \setcounter{footnote}{0}%
9576 \global\let\thanks\relax
9577 \global\let\maketitle\relax
9578 \global\let\@thanks\@empty
9579 \global\let\@author\@empty
9580 \global\let\@title\@empty
9581 \global\let\@date\@empty
9582 \global\let\title\relax
9583 \global\let\author\relax
9584 \global\let\date\relax
9585 \global\let\and\relax
9586 }

```



## 64 File `bookest-xetex-bidi.def`

```
9587 \ProvidesFile{bookest-xetex-bidi.def}[2010/07/25 v0.4 bidi adaptations for bookest class for
9588 \def\@makechapterhead#1{%
9589   \vspace*{20\p@}
9590   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9591     \ifnum \c@secnumdepth >\m@ne
9592       \if@mainmatter
9593         {\colorA\huge\scshape \@chapapp\space \thechapter}
9594         \par\nobreak
9595         \vskip 10\p@
9596       \fi
9597     \fi
9598     \interlinepenalty\@M
9599   {\colorB\hrule}
9600   \vskip 15\p@
9601   \if@RTL\begin{flushleft}\else\begin{flushright}\fi
9602     {\colorA\Huge \bfseries #1}\par\nobreak
9603   \if@RTL\end{flushleft}\else\end{flushright}\fi
9604   \vskip 5\p@
9605   {\colorB\hrule}
9606   \vskip 30\p@
9607   }}
9608 \def\@makeschapterhead#1{%
9609   \vspace*{20\p@}
9610   {\parindent \z@ \raggedright \normalfont
9611     {\colorB\hrule}
9612     \vskip 15\p@
9613     \begin{center}
9614       {\colorA\Huge \bfseries #1}\par\nobreak
9615     \end{center}
9616     \vskip 5\p@
9617     {\colorB\hrule}
9618     \vskip 30\p@
9619   }}
```

## 65 File `book-xetex-bidi.def`

```
9620 \ProvidesFile{book-xetex-bidi.def}[2025/03/01 v1.2 bidi adaptations for standard book class
9621 \renewenvironment{theindex}
9622   {\if@twocolumn
9623     \@restonecolfalse
9624     \else
9625       \@restonecoltrue
9626     \fi
9627     \columnseprule \z@
9628     \columnsep 35\p@
9629     \twocolumn[\@makeschapterhead{\indexname}]%
9630     \@mkboth{\MakeUppercase\indexname}%
9631             {\MakeUppercase\indexname}%
9632     \thispagestyle{plain}\parindent\z@
9633     \parskip\z@ \@plus .3\p@\relax
9634     \let\item\@idxitem}
9635   {\if@restonecol\onecolumn\else\clearpage\fi}
```



```

9636 \IfClassLoadedF{bookest}{%
9637   \if@titlepage
9638     \renewcommand\maketitle{\begin{titlepage}%
9639       \let\footnotesize\small
9640       \let\right@footnoterule\relax
9641       \let\left@footnoterule\relax
9642       \let\textwidth@footnoterule\relax
9643       \let \footnote \thanks
9644       \let \LTRfootnote \LTRthanks
9645       \let \RTLfootnote \RTLthanks
9646       \null\vfil
9647       \vskip 60\p@
9648       \begin{center}%
9649         {\LARGE \@title \par}%
9650         \vskip 3em%
9651         {\large
9652           \lineskip .75em%
9653           \begin{tabular}[t]{c}%
9654             \@author
9655             \end{tabular}\par}%
9656           \vskip 1.5em%
9657           {\large \@date \par}%           % Set date in \large size.
9658       \end{center}\par
9659       \@thanks
9660       \vfil\null
9661     \end{titlepage}%
9662     \setcounter{footnote}{0}%
9663     \global\let\thanks\relax
9664     \global\let\LTRthanks\relax
9665     \global\let\RTLthanks\relax
9666     \global\let\maketitle\relax
9667     \global\let\@thanks\@empty
9668     \global\let\@author\@empty
9669     \global\let\@date\@empty
9670     \global\let\@title\@empty
9671     \global\let\title\relax
9672     \global\let\author\relax
9673     \global\let\date\relax
9674     \global\let\and\relax
9675 }
9676 \else
9677 \renewcommand\maketitle{\par
9678   \begin{group}
9679     \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
9680     \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
9681     \long\def\@makefntext##1{\parindent 1em\noindent
9682       \hb@xt@1.8em{%
9683         \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
9684     \if@twocolumn
9685       \ifnum \col@number=\@ne
9686         \@maketitle
9687       \else
9688         \twocolumn[\@maketitle]%
9689       \fi

```



```

9690 \else
9691 \newpage
9692 \global\let\topnum\z@ % Prevents figures from going at top of page.
9693 \maketitle
9694 \fi
9695 \thispagestyle{plain}\@thanks
9696 \endgroup
9697 \setcounter{footnote}{0}%
9698 \global\let\thanks\relax
9699 \global\let\LTRthanks\relax
9700 \global\let\RTLthanks\relax
9701 \global\let\maketitle\relax
9702 \global\let\@maketitle\relax
9703 \global\let\@thanks\@empty
9704 \global\let\@author\@empty
9705 \global\let\@date\@empty
9706 \global\let\@title\@empty
9707 \global\let\title\relax
9708 \global\let\author\relax
9709 \global\let\date\relax
9710 \global\let\and\relax
9711 }
9712 \def\@maketitle{%
9713 \newpage
9714 \null
9715 \vskip 2em%
9716 \begin{center}%
9717 \let \footnote \thanks
9718 \let \LTRfootnote \LTRthanks
9719 \let \RTLfootnote \RTLthanks
9720 {\LARGE \@title \par}%
9721 \vskip 1.5em%
9722 {\large
9723 \lineskip .5em%
9724 \begin{tabular}[t]{c}%
9725 \@author
9726 \end{tabular}\par}%
9727 \vskip 1em%
9728 {\large \@date}%
9729 \end{center}%
9730 \par
9731 \vskip 1.5em}
9732 \fi}
9733 \IfPackageLoadedF{tocloft}{%
9734 \renewcommand*\l@part[2]{%
9735 \ifnum \c@tocdepth >-2\relax
9736 \addpenalty{-\@highpenalty}%
9737 \addvspace{2.25em \@plus\p}%
9738 \setlength\@tempdima{3em}%
9739 \begin{group
9740 \parindent \z@ \ifRTL\leftskip\else\rightskip\fi \@pnumwidth
9741 \parfillskip -\@pnumwidth
9742 {\leavevmode
9743 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par

```



```

9744      \nobreak
9745      \global\@nobreaktrue
9746      \everypar{\global\@nobreakfalse\everypar{}}}%
9747  \endgroup
9748  \fi}
9749  \renewcommand*{\l@chapter[2]{%
9750    \ifnum \c@tocdepth >\m@ne
9751      \addpenalty{-\@highpenalty}%
9752      \vskip 1.0em \@plus\p@
9753      \setlength\@tempdima{1.5em}%
9754      \begingroup
9755        \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
9756        \parfillskip -\@pnumwidth
9757        \leavevmode \bfseries
9758        \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
9759        \hskip -\if@RTL\rightskip\else\leftskip\fi
9760        #1\nobreak\hfil \nobreak\hbext@\@pnumwidth{\hss #2}\par
9761        \penalty\@highpenalty
9762      \endgroup
9763    \fi}
9764  }
9765  \renewcommand\left@footnoterule{%
9766    \kern-3\p@
9767    \hrule\@width.4\columnwidth
9768    \kern2.6\p@}
9769  \renewcommand\right@footnoterule{%
9770    \kern-3\p@
9771    \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
9772    \kern2.6\p@}
9773  \renewcommand\theequation
9774    {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
9775  \renewcommand \thefigure
9776    {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
9777  \renewcommand \thetable
9778    {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
9779  \renewcommand \thechapter {\@arabic\c@chapter}
9780  \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
9781  \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
9782  \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
9783  \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
9784  \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
9785  \def\@makechapterhead#1{%
9786    \vspace*{50\p@}%
9787    {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
9788      \ifnum \c@secnumdepth >\m@ne
9789        \if@mainmatter
9790          \huge\bfseries \@chapapp\space \thechapter
9791          \par\nobreak
9792          \vskip 20\p@
9793        \fi
9794      \fi
9795      \interlinepenalty\@M
9796      \Huge \bfseries #1\par\nobreak
9797      \vskip 40\p@

```



```

9798   }}
9799 \def\@makeschapterhead#1{%
9800   \vspace*{50\p@}%
9801   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
9802     \normalfont
9803     \interlinepenalty\@M
9804     \Huge \bfseries #1\par\nobreak
9805     \vskip 40\p@
9806   }}
9807 \renewcommand\backmatter{%
9808   \if@openright
9809     \cleardoublepage
9810   \else
9811     \clearpage
9812   \fi
9813   \@mainmatterfalse}
9814 \renewenvironment{thebibliography}[1]
9815   {\chapter*{\bibname}%
9816     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
9817     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
9818     \bidi@thebibliography@font@hook%
9819     \list{\@biblabel{\@arabic{c@enumiv}}}%
9820       {\settowidth\labelwidth{\@biblabel{#1}}%
9821         \leftmargin\labelwidth
9822         \advance\leftmargin\labelsep
9823         \@openbib@code
9824         \usecounter{enumiv}%
9825         \let\p@enumiv\@empty
9826         \renewcommand\theenumiv{\@arabic{c@enumiv}}}%
9827     \sloppy
9828     \clubpenalty4000
9829     \@clubpenalty \clubpenalty
9830     \widowpenalty4000%
9831     \sfcode~\.\@m}
9832   {\def\@noitemerr
9833     {\@latex@warning{Empty `thebibliography' environment}}}%
9834   \endlist}

```

## 66 File breqn-xetex-bidi.def

```

9835 \ProvidesFile{breqn-xetex-bidi.def}[2016/09/12 v0.2 bidi adaptations for breqn package for X
9836 \def\@dmath[#1]{\if@RTL\@RTLfalse\fi%
9837   \everydisplay\expandafter{\the\everydisplay \display@setup}%
9838   \if@noskipsec \leavevmode \fi
9839   \if@inlabel \leavevmode \global\@inlabelfalse \fi
9840   \if\eq@group\else\eq@prelim\fi
9841   \setkeys{breqn}{#1}%
9842   \the\eqstyle
9843   \eq@setnumber
9844   \begingroup
9845   \eq@setup@a
9846   \eq@startup
9847 }
9848 \def\@dgroup[#1]{\if@RTL\@RTLfalse\fi%

```



```

9849 \let\eq@group\@True \global\let\eq@GRP@first@dmath\@True
9850 \global\GRP@queue\@emptytoks \global\setbox\GRP@box\box\voidb@x
9851 \global\let\GRP@label\@empty
9852 \global\grp@wdL\z@\global\grp@wdR\z@\global\grp@wdT\z@
9853 \global\grp@linewidth\z@\global\grp@wdNum\z@
9854 \global\let\grp@eqs@numbered\@False
9855 \global\let\grp@aligned\@True
9856 \global\let\grp@shiftnumber\@False
9857 \eq@prelim
9858 \setkeys{breqn}{#1}%
9859 \if\grp@hasNumber \grp@setnumber \fi
9860 }
9861 \def\@dseries[#1]{\if@RTL\@RTLfalse\fi%
9862 \let\display@setup\dseries@display@setup
9863 % Question: should this be the default for dseries???
9864 \global\eq@wdCond\z@
9865 \@dmath[layout={M},#1]%
9866 \mathsurround\z@\@math \penalty\@Mi
9867 \let\endmath\ends@math
9868 \def\premath{%
9869 \ifdim\lastskip<.3em \unskip
9870 \else\ifnum\lastpenalty<\@M \dquad\fi\fi
9871 }%
9872 \def\postmath{\unpenalty\eq@addpunct \penalty\intermath@penalty \dquad \@ignoretrue}%
9873 \ignorespaces
9874 }
9875 \def\eqnumform#1{\if@nonlatin\beginR\@RTLtrue\fi(#1\@italiccorr)\if@nonlatin\endR\fi}
9876 \renewenvironment{dsuspend}{%
9877 \global\setbox\EQ@box\vbox\bgroup\if@nonlatin\@RTLtrue\fi \@parboxrestore
9878 \parshape 1 \displayindent \displaywidth\relax
9879 \hsize=\columnwidth \noindent\ignorespaces
9880 }{%
9881 \par\egroup
9882 \global\setbox\GRP@box\vbox{%
9883 \hbox{\copy\EQ@box\vtop{\unvbox\EQ@box}}%
9884 \unvbox\GRP@box
9885 }%
9886 \global\GRP@queue\@xp{\the\GRP@queue
9887 \@elt{\let\eq@isIntertext\@True}%
9888 }%
9889 }

```

## 67 File cals-xetex-bidi.def

```

9890 \ProvidesFile{cals-xetex-bidi.def}[2016/11/30 v0.4 bidi adaptations for cals package for XeT
9891 \renewcommand\cals@setup@alignment[1]{%
9892 \if c#1\relax \cals@vfillAdd \leftskip \cals@vfillAdd \rightskip \fi
9893 \if l#1\relax \cals@vfillDrop\leftskip \cals@vfillDrop\rightskip \fi
9894 \if r#1\relax \cals@vfillAdd \leftskip \cals@vfillDrop\rightskip \fi
9895 }
9896 \renewcommand\cals@table@alignment{\if@RTLtab r\else l\fi}
9897 \renewenvironment{calstable}[1][\cals@table@alignment]{%
9898 \if@RTLtab\cals@activate@rtl\fi
9899 \let\cals@thead@tokens=\relax

```





```

9900 \let\cals@tfoot@tokens=\relax
9901 \let\cals@tbreak@tokens=\relax
9902 \cals@tfoot@height=0pt \relax
9903 \let\cals@last@context=n%
9904 \let\cals@current@context=b%
9905 \parindent=0pt \relax%
9906 \cals@setup@alignment{#1}%
9907 \cals@setpadding{Ag}\cals@setcellprevdepth{Al}\cals@set@tohsize%
9908 %% Alignment inside is independent on center/flushright outside
9909 \parfillskip=0pt plus1fil\relax
9910 \let\cals@borderL=\relax
9911 \let\cals@borderR=\relax
9912 \let\cals@borderT=\relax
9913 \let\cals@borderB=\relax
9914 \setbox\cals@backup@row=\box\voidb@x\relax
9915 \cals@AtBeginTable
9916 }{% End of the table
9917 \cals@tfoot@tokens\lastrule\cals@AtEndTable}
9918 \renewcommand\alignL{%
9919 \if@RTLtab
9920   \cals@vfillAdd\cals@paddingL
9921 \else
9922   \cals@vfillDrop\cals@paddingL
9923 \fi
9924 \cals@vfillDrop\cals@paddingR}
9925 \renewcommand\alignR{%
9926 \if@RTLtab
9927   \cals@vfillDrop\cals@paddingL
9928 \else
9929   \cals@vfillAdd\cals@paddingL
9930 \fi
9931 \cals@vfillDrop\cals@paddingR}

```

## 68 File caption-xetex-bidi.def

```

9932 \ProvidesFile{caption-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for caption package f
9933 \let\@makecaption\caption@makecaption

```

## 69 File caption3-xetex-bidi.def

```

9934 \ProvidesFile{caption3-xetex-bidi.def}[2013/04/01 v0.1 bidi adaptations for caption3 package
9935 \renewcommand*\caption@par{%
9936   \parindent\caption@parindent\hangindent\if@RTL-\fi\caption@hangindent}%

```

## 70 File colortbl-xetex-bidi.def

```

9937 \ProvidesFile{colortbl-xetex-bidi.def}[2012/06/10 v0.2 bidi adaptations for colortbl package
9938 \def\CT@setup{%
9939   \@tempdimb\col@sep
9940   \@tempdimc\col@sep
9941   \def\CT@color{%
9942     \global\let\CT@do@color\CT@@do@color
9943     \bidicolor}}
9944 \def\@classz{\@classx

```



```

9945 \tempcnta \count@
9946 \prepnext@tok
9947 \expandafter\CT@extract\the\toks\@tempcnta\columncolor!\@nil
9948 \@addtopreamble{\if@RTLtab\beginL\fi%
9949 \setbox\z@\hbox\bgroup\bgroup\if@RTLtab\beginR\fi
9950 \ifcase \@chnum
9951 \hskip\stretch{.5}\kern\z@
9952 \d@llarbegin
9953 \insert@column
9954 \d@llarend\hskip\stretch{.5}\or
9955 \d@llarbegin \insert@column \d@llarend \hfill \or
9956 \hfill\kern\z@ \d@llarbegin \insert@column \d@llarend \or
9957 $\vcenter
9958 \@startpbox{\@nextchar}\insert@column \@endpbox $\or
9959 \vtop \@startpbox{\@nextchar}\insert@column \@endpbox \or
9960 \vbox \@startpbox{\@nextchar}\insert@column \@endpbox
9961 \fi
9962 \if@RTLtab\endR\fi\egroup\egroup
9963 \begingroup
9964 \CT@setup
9965 \CT@column@color
9966 \CT@row@color
9967 \CT@cell@color
9968 \CT@do@color
9969 \endgroup
9970 \@tempdima\ht\z@
9971 \advance\@tempdima\minrowclearance
9972 \vrule\@height\@tempdima\@width\z@
9973 \unhbox\z@\if@RTLtab\endL\fi}%
9974 \prepnext@tok}

```

## 71 File color-xetex-bidi.def

```

9975 \ProvidesFile{color-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for color package for X
9976 \long\def\color@b@x#1#2#3{%
9977 \leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
9978 \setbox\z@\hbox{\kern\fbboxsep\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
9979 \dimen@ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@
9980 \dimen@dp\z@\advance\dimen@\fbboxsep\dp\z@\dimen@
9981 {\#1{\#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}}%
9982 \box\z@}\ifmmode\else\if@RTL\endL\fi\fi}
9983 \def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi}
9984 \DeclareRobustCommand\color{%
9985 \ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\@ifnextchar[\@undeclaredcolor\@declaredcolor]}
9986 \def\@declaredcolor#1{%
9987 \ifundefined{\string\color @#1}%
9988 {\c@lor@error{`#1'}}%
9989 {\expandafter\let\expandafter\current@color
9990 \csname\string\color @#1\endcsname
9991 \set@color}%
9992 \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9993 \def\@undeclaredcolor[#1]#2{%
9994 \ifundefined{color@#1}%
9995 {\c@lor@error{model `#1'}}%

```



```

9996     {\csname color@#1\endcsname\current@color{#2}%
9997       \set@color}%
9998   \ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
9999 \DeclareRobustCommand\bidicolor{%
10000   \@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor}
10001 \def\@bidiundeclaredcolor[#1]#2{%
10002   \@ifundefined{color@#1}%
10003     {\c@lor@error{model `#1'}}%
10004     {\csname color@#1\endcsname\current@color{#2}%
10005       \set@color}%
10006   \ignorespaces}
10007 \def\@bidideclaredcolor#1{%
10008   \@ifundefined{\string\color @#1}%
10009     {\c@lor@error{`#1'}}%
10010     {\expandafter\let\expandafter\current@color
10011       \csname\string\color @#1\endcsname
10012       \set@color}%
10013   \ignorespaces}
10014 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
10015 \def\color@fbox#1#2#3{%
10016   \color@b@x{\fboxsep\z@\bidicolor#1{#2}\fbox}{\bidicolor#1{#3}}}
10017 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi\set@color\ifhmod

```

## 72 File combine-xetex-bidi.def

```

10018 \ProvidesFile{combine-xetex-bidi.def}[2011/09/23 v0.1 bidi adaptations for combine class for
10019 \renewcommand{\c@ll@chapsecii}[2]{%
10020   \if@RTL\advance\rightskip\@tempdima\else\advance\leftskip\@tempdima\fi
10021   \if@RTL\hskip -\rightskip\else\hskip -\leftskip\fi
10022   #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
10023 }
10024 \renewcommand{\c@ll@chapseci}{%
10025   \setlength\@tempdima{0em}%
10026   \begingroup
10027     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
10028     \parfillskip -\@pnumwidth
10029     \leavevmode
10030 }
10031 \renewenvironment{tocindent}[1]{%
10032   \hangindent \if@RTL-\fi#1 \hangafter -100\relax}{%

```

## 73 File crop-xetex-bidi.def

```

10033 \ProvidesFile{crop-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for crop package for XeT
10034 \IfClassLoadedT{memoir}{\endinput}
10035 \RequirePackage{graphicx}
10036 \renewcommand*{CROP@ulc}{%
10037   \if@RTLmain%
10038     \begin{picture}(0,0)
10039       \unitlength\p@\thinline
10040       \put(-40,0){\circle{10}}
10041       \put(-30,-5){\line(0,1){10}}
10042       \put(-35,0){\line(1,0){30}}
10043       \put(-10,30){\circle{10}}

```



```

10044      \put(-5,30){\line(1,0){10}}
10045      \put(0,35){\line(0,-1){30}}
10046    \end{picture}%
10047  \else%
10048    \begin{picture}(0,0)
10049      \unitlength\p@\thinline
10050      \put(-30,0){\circle{10}}
10051      \put(-30,-5){\line(0,1){10}}
10052      \put(-35,0){\line(1,0){30}}
10053      \put(0,30){\circle{10}}
10054      \put(-5,30){\line(1,0){10}}
10055      \put(0,35){\line(0,-1){30}}
10056    \end{picture}%
10057  \fi%
10058 }
10059 \renewcommand*\CROP@urc{%
10060   \if@RTLmain%
10061     \begin{picture}(0,0)
10062       \unitlength\p@\thinline
10063       \put(20,0){\circle{10}}
10064       \put(30,-5){\line(0,1){10}}
10065       \put(35,0){\line(-1,0){30}}
10066       \put(-10,30){\circle{10}}
10067       \put(-5,30){\line(1,0){10}}
10068       \put(0,35){\line(0,-1){30}}
10069     \end{picture}%
10070   \else%
10071     \begin{picture}(0,0)
10072       \unitlength\p@\thinline
10073       \put(30,0){\circle{10}}
10074       \put(30,-5){\line(0,1){10}}
10075       \put(35,0){\line(-1,0){30}}
10076       \put(0,30){\circle{10}}
10077       \put(-5,30){\line(1,0){10}}
10078       \put(0,35){\line(0,-1){30}}
10079     \end{picture}%
10080   \fi%
10081 }
10082 \renewcommand*\CROP@llc{%
10083   \if@RTLmain%
10084     \begin{picture}(0,0)
10085       \unitlength\p@\thinline
10086       \put(-40,0){\circle{10}}
10087       \put(-30,-5){\line(0,1){10}}
10088       \put(-35,0){\line(1,0){30}}
10089       \put(-10,-30){\circle{10}}
10090       \put(-5,-30){\line(1,0){10}}
10091       \put(0,-35){\line(0,1){30}}
10092     \end{picture}%
10093   \else%
10094     \begin{picture}(0,0)
10095       \unitlength\p@\thinline
10096       \put(-30,0){\circle{10}}
10097       \put(-30,-5){\line(0,1){10}}

```



```

10098      \put(-35,0){\line(1,0){30}}
10099      \put(0,-30){\circle{10}}
10100      \put(-5,-30){\line(1,0){10}}
10101      \put(0,-35){\line(0,1){30}}
10102    \end{picture}%
10103    \fi%
10104  }
10105  \renewcommand*\CROP@lrc{%
10106    \if@RTLmain%
10107      \begin{picture}(0,0)
10108        \unitlength\p@\thinline
10109        \put(20,0){\circle{10}}
10110        \put(30,-5){\line(0,1){10}}
10111        \put(35,0){\line(-1,0){30}}
10112        \put(-10,-30){\circle{10}}
10113        \put(-5,-30){\line(1,0){10}}
10114        \put(0,-35){\line(0,1){30}}
10115      \end{picture}%
10116    \else%
10117      \begin{picture}(0,0)
10118        \unitlength\p@\thinline
10119        \put(30,0){\circle{10}}
10120        \put(30,-5){\line(0,1){10}}
10121        \put(35,0){\line(-1,0){30}}
10122        \put(0,-30){\circle{10}}
10123        \put(-5,-30){\line(1,0){10}}
10124        \put(0,-35){\line(0,1){30}}
10125      \end{picture}%
10126    \fi%
10127  }
10128  \@ifpackagewith{crop}{cam}{%
10129    \CROP@execopt{cam}%
10130  }{}

```

## 74 File cutwin-xetex-bidi.def

```

10131 \ProvidesFile{cutwin-xetex-bidi.def}[2011/11/12 v0.1 bidi adaptations for cutwin package for
10132 \renewcommand*{\c@twcompctr}[2]{%
10133   \def\c@twfirst{1}
10134   \loop\advance\c@twwinlines\m@ne
10135   \setbox\c@twslicea=\vsplit#1 to\baselineskip
10136   \setbox\c@twsliceb=\vsplit#1 to\baselineskip
10137   \c@twprune{\c@twslicea}{\c@twlftside}%
10138   \c@twprune{\c@twsliceb}{\c@twrtside}%
10139   \ifnum\c@twfirst=\@ne
10140     \setbox#2=\vbox{\unvbox#2\hbox
10141       to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\pageinwindow\hfil\if@RTL\box\c@tw
10142     \else
10143       \setbox#2=\vbox{\unvbox#2\hbox
10144         to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\else\box\c@tw
10145     \fi
10146   \def\c@twfirst{2}
10147   \ifnum\c@twwinlines>\z@\repeat
10148 \renewcommand*{\c@twcompoddctr}[2]{%

```



```

10149 \def\c@twrounds{1}
10150 \def\c@twfirst{1}
10151 \@for\c@twlspec:=\c@twb\do{%
10152   \ifnum\c@twrounds=1
10153     \setbox\c@twslicea=\vsplit#1 to\baselineskip % first of pair
10154     \c@twprune{\c@twslicea}{\c@twlspec}%
10155     \def\c@twrounds{2}
10156   \else
10157     \setbox\c@twsliceb=\vsplit#1 to\baselineskip % second of pair
10158     \c@twprune{\c@twsliceb}{\c@twlspec}%
10159     \ifnum\c@twfirst=1
10160       \setbox#2=\vbox{\unvbox#2\hbox
10161         to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\picinwindow\hfil\if@RTL\
10162       \def\c@twfirst{2}
10163     \else
10164       \setbox#2=\vbox{\unvbox#2\hbox
10165         to\hsize{\if@RTL\box\c@twsliceb\else\box\c@twslicea\fi\hfil\if@RTL\box\c@twslicea\el
10166     \fi
10167     \def\c@twrounds{1}
10168   \fi}}

```

## 75 File cuted-xetex-bidi.def

```

10169 \ProvidesFile{cuted-xetex-bidi.def}[2022/02/18 v0.7 bidi adaptations for cuted package for X
10170
10171 \def\RTL@outputdblcol{%
10172   \if@firstcolumn
10173     \global\@firstcolumnfalse
10174     \global\setbox\@leftcolumn\copy\@outputbox
10175     \splitmaxdepth\maxdimen
10176     \vbadness\maxdimen
10177     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10178     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10179     \toks@\expandafter{\topmark}%
10180     \xdef\@firstcoltopmark{\the\toks@}%
10181     \toks@\expandafter{\splitfirstmark}%
10182     \xdef\@firstcolfirstmark{\the\toks@}%
10183     \ifx\@firstcolfirstmark\@empty
10184       \global\let\@setmarks\relax
10185     \else
10186       \gdef\@setmarks{%
10187         \let\firstmark\@firstcolfirstmark
10188         \let\topmark\@firstcoltopmark}%
10189     \fi
10190   \else
10191     \global\@firstcolumntrue
10192     \setbox\@outputbox\vbox{%
10193       \hb@xt@\textwidth{%
10194         \hskip \columnwidth
10195         \hfil
10196         {\normalcolor\vrule \@width\columnseprule}%
10197         \hfil
10198         \hb@xt@\columnwidth{%
10199           \bidi@firstcolumn@status@write%

```



```

10200      \box\@leftcolumn \hss}%
10201      \hskip -\textwidth
10202      \hb@xt@\columnwidth{%
10203      \bidi@lastcolumn@status@write%
10204      \box\@outputbox \hss}%
10205      \hskip \columnsep
10206      \hskip \columnwidth }}%
10207      \ifvoid\hold@viper
10208      \else
10209      \setbox\@outputbox \vbox to\textheight{%
10210      \box\hold@viper
10211      \box\@outputbox
10212      \vss
10213      }%
10214      \fi
10215      \@combinedblfloats
10216      \@setmarks
10217      \@outputpage
10218      \begingroup
10219      \@dblfloatplacement
10220      \@startdblcolumn
10221      \@whiles\if@fcolmade \fi{\@outputpage
10222      \@startdblcolumn}%
10223      \ifvoid\@viper
10224      \else
10225      \global\setbox\@viper\vbox{%
10226      \vskip-\stripsep
10227      \unvbox\@viper
10228      }%
10229      \@viperoutput
10230      \fi
10231      \endgroup
10232      \fi}%
10233
10234      \def\LTR@outputdblcol{%
10235      \if@firstcolumn
10236      \global\@firstcolumnfalse
10237      \global\setbox\@leftcolumn\copy\@outputbox
10238      \splitmaxdepth\maxdimen
10239      \vbadness\maxdimen
10240      \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
10241      \setbox\@outputbox\vsplit\@outputbox to\maxdimen
10242      \toks@\expandafter{\topmark}%
10243      \xdef\@firstcoltopmark{\the\toks@}%
10244      \toks@\expandafter{\splitfirstmark}%
10245      \xdef\@firstcolfirstmark{\the\toks@}%
10246      \ifx\@firstcolfirstmark\@empty
10247      \global\let\@setmarks\relax
10248      \else
10249      \gdef\@setmarks{%
10250      \let\firstmark\@firstcolfirstmark
10251      \let\topmark\@firstcoltopmark}%
10252      \fi
10253      \else

```



```

10254 \global\@firstcolumntrue
10255 \setbox\@outputbox\vbox{%
10256 \hb@xt@\textwidth{%
10257 \hb@xt@\columnwidth{%
10258 \bidi@firstcolumn@status@write%
10259 \box\@leftcolumn \hss}%
10260 \hfil
10261 {\normalcolor\vrule \@width\columnseprule}%
10262 \hfil
10263 \hb@xt@\columnwidth{%
10264 \bidi@lastcolumn@status@write%
10265 \box\@outputbox \hss}}}%
10266 \ifvoid\hold@viper
10267 \else
10268 \setbox\@outputbox \vbox to\textheight{%
10269 \box\hold@viper
10270 \box\@outputbox
10271 \vss
10272 }%
10273 \fi
10274 \@combinedblfloats
10275 \@setmarks
10276 \@outputpage
10277 \begin@group
10278 \@dblfloatplacement
10279 \@startdblcolumn
10280 \@whiles\if@fcolmade \fi{\@outputpage
10281 \@startdblcolumn}%
10282 \ifvoid\@viper
10283 \else
10284 \global\setbox\@viper\vbox{%
10285 \vskip-\stripsep
10286 \unvbox\@viper
10287 }%
10288 \@viperoutput
10289 \fi
10290 \endgroup
10291 \fi}%
10292
10293 \def\@addviper{%
10294 \insertfalse
10295 \def\var@@thecol@num{2}%
10296 \if@firstcolumn
10297 \def\var@@thecol@num{1}%
10298 \@reqcolroom=.5\@pageht
10299 \ht@viper=\@reqcolroom
10300 \advance\@reqcolroom by\ht\@viper
10301 \advance\@reqcolroom by\stripsep
10302 \else
10303 \@reqcolroom=\@colht
10304 \advance\@reqcolroom by\@pageht
10305 \ht@viper.5\@reqcolroom
10306 \@reqcolroom=\ht@viper
10307 \advance\@reqcolroom by\ht\@viper

```





```

10308 \advance\@reqcolroom by\stripsep
10309 \global\setbox\@holdpg\vbox{%
10310 \setbox\cuted@@tempbox@a\vbox{%
10311 \aftergroup\unvbox
10312 \unvcopy\@leftcolumn
10313 \unskip\unkern\unpenalty
10314 \setbox\@tempboxa\lastbox
10315 \ifdim\dimexpr\ht\@tempboxa+\wd\@tempboxa+\dp\@tempboxa>\z@
10316 %% keeps lastbox
10317 \aftergroup\@leftcolumn
10318 \else
10319 %% removes lastbox
10320 \aftergroup\cuted@@tempbox@a
10321 \fi
10322 }%
10323 \unskip\unkern\unpenalty
10324 \on@stripcols@break
10325 \the\At@ViperColsBreak
10326 \unvbox\@holdpg
10327 }%
10328 \global\At@ViperColsBreak{}%
10329 \ht@viper=.5\ht\@holdpg
10330 \ifdim\ht@viper>\@colht
10331 \ht@viper=\@colht
10332 \fi
10333 \fi
10334 %%
10335 %% calculations for breaking
10336 %%
10337 \ifvoid\hold@viper
10338 \ht@hold@viper=\z@
10339 \else
10340 \ht@hold@viper=\ht\hold@viper
10341 \fi
10342 \cuted@@tempdim@b\ht@viper
10343 \set@split@topskip@to\topskip
10344 \loop
10345 \xdef\saved@tempdimb{\the\cuted@@tempdim@b}%
10346 \setbox\cuted@@varbox@a\copy\@holdpg
10347 \setbox\cuted@@tempbox@a\vsplit\cuted@@varbox@a to\cuted@@tempdim@b
10348 %% set leftcolumn boxes
10349 \setbox\cuted@@tempbox@c\vbox{\unvbox\cuted@@tempbox@a}%
10350 \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@tempbox@c}%
10351 \xdef\var@@leftcolumn@badness{\the\badness}%
10352 %% set rightcolumn boxes
10353 \setbox\cuted@@varbox@c\vbox{\unvbox\cuted@@varbox@a}%
10354 \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{\unvcopy\cuted@@varbox@c}%
10355 \xdef\var@@rightcolumn@badness{\the\badness}%
10356 %% analyzing split goodness
10357 \cuted@@tempdim@spread=\ht\cuted@@tempbox@c
10358 \advance\cuted@@tempdim@spread by\dp\cuted@@tempbox@c
10359 \advance\cuted@@tempdim@spread by-\ht\cuted@@varbox@c
10360 \advance\cuted@@tempdim@spread by-\dp\cuted@@varbox@c
10361 \cuted@@wlog@debug{CUTED [-----]}%

```



```

10362      ^^JLeft: \the\ht\cuted@@tempbox@c
10363      +\the\dp\cuted@@tempbox@c\space/\var@@leftcolumn@badness
10364      ^^JRight: \the\ht\cuted@@varbox@c
10365      +\the\dp\cuted@@varbox@c\space/\var@@rightcolumn@badness
10366      ^^JSplit: \the\cuted@@tempdim@b
10367      ^^JExtra height: \the\cuted@@tempdim@spread
10368    }%
10369    \ifnum\var@@leftcolumn@badness<\cuted@@column@badness
10370      \ifnum\var@@rightcolumn@badness<\cuted@@column@badness
10371        \cuted@@tempdim@spread=\z@
10372      \fi
10373    \fi
10374    \ifdim\cuted@@tempdim@spread<\z@
10375      \if@left@column@spread
10376        \if@right@column@shrink
10377          \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink>\z@
10378            \cuted@@tempdim@a=\dimexpr\ht\cuted@@tempbox@c-0.5\cuted@@tempdim@spread
10379          \else
10380            \cuted@@tempdim@a=-\dimexpr\cuted@@tempdim@spread+.5\pageshrink\relax
10381          \fi
10382          \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@tempbox@c}
10383          \ifnum\badness<\cuted@@column@badness
10384            \cuted@@tempdim@b=\cuted@@tempdim@a
10385            \cuted@@tempdim@spread=\z@
10386          \fi
10387          \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness\space on \the\h}
10388          \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@a{\unvcopy\cuted@@varbox@c}
10389          \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness\space on \the\h}
10390        \else
10391          \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{\unvcopy\cuted@@tempbox@c}
10392          \unvcopy\cuted@@tempbox@c
10393        }%
10394        \ifnum\badness<\cuted@@column@badness
10395          \@tempdimb=\ht\cuted@@varbox@c
10396          \cuted@@tempdim@spread=\z@
10397        \fi
10398        \cuted@@wlog@debug{CUTED [leftcolumn badness]: \number\badness on \the\h}
10399        \setbox\cuted@@varbox@a\vbox to\ht\cuted@@varbox@c{\unvcopy\cuted@@varbox@c}
10400        \unvcopy\cuted@@varbox@c
10401      }%
10402      \cuted@@wlog@debug{CUTED [rightcolumn badness]: \number\badness on \the\h}
10403    \fi
10404  \else
10405    \if@right@column@shrink
10406      \ifdim\dimexpr\cuted@@tempdim@spread+\pageshrink<\z@
10407      \else
10408        \cuted@@tempdim@b=\ht\cuted@@tempbox@c
10409        \cuted@@tempdim@spread=\z@
10410      \fi
10411    \fi
10412  \fi
10413 \else
10414   \ifdim\cuted@@tempdim@spread>\z@
10415     \ifdim\dimexpr\@tempdimb+\p@relax>\@colht

```



```

10416             \cuted@@tempdim@b=\@colht
10417             \cuted@@tempdim@spread=\z@
10418         \fi
10419     \fi
10420 \fi
10421 \ifdim\cuted@@tempdim@spread<\z@
10422     \advance\cuted@@tempdim@b 1\p@
10423 \repeat
10424 \wlog{CUTED [- LAST -]}%
10425     ^^JExtra skip:\the\cuted@@tempdim@spread
10426     ^^JLeft:\the\ht\cuted@@tempbox@c/\the\dp\cuted@@tempbox@c
10427     ^^JRight:\the\ht\cuted@@varbox@c/\the\dp\cuted@@varbox@c
10428     ^^JSplit:\saved@tempdimb
10429     ^^JOutput:\the\cuted@@tempdim@b
10430     ^^JPageshrink:\the\pageshrink
10431     ^^JPagestretch:\the\pagestretch
10432     ^^J@colht:\the\@colht
10433 }%
10434 %%
10435 %% final construction of the cuted page above strip
10436 %%
10437 \setbox\cuted@@tempbox@c\vsplit\@holdpg to\saved@tempdimb
10438 \setbox\cuted@@tempbox@a\vbox to\cuted@@tempdim@b{%
10439     \cuted@@tempdim@a=\dimexpr
10440         \cuted@@tempdim@b-\ht\cuted@@tempbox@c
10441     \relax
10442     \cuted@@tempdim@spread=\dp\cuted@@tempbox@c
10443     \unvbox\cuted@@tempbox@c
10444     \ifdim\cuted@@tempdim@spread>\dp\strutbox
10445     \else
10446         \vskip-\cuted@@tempdim@spread
10447     \fi
10448     \prevdepth\z@
10449     \hrule\@height\cuted@@page@rule width\textwidth
10450     \vskip-\cuted@@page@rule
10451     \ifdim\cuted@@tempdim@a>\z@
10452         \if@left@column@spread
10453         \else
10454             \vss
10455         \fi
10456     \else
10457         \ifdim\cuted@@tempdim@a<\z@
10458             \if@left@column@shrink
10459             \else
10460                 \vss
10461             \fi
10462         \fi
10463     \fi
10464 }%
10465 \wlog{CUTED [output]: \the\cuted@@tempdim@b
10466     ^^JCUTED [leftcolumn badness]: \number\badness
10467 }%
10468 \setbox\cuted@@varbox@a\vbox to\cuted@@tempdim@b{%
10469     \cuted@@tempdim@a=\dimexpr

```



```

10470         \cuted@@tempdim@b-\ht\@holdpg
10471         \relax
10472     \unvbox\@holdpg
10473     \ifdim\cuted@@tempdim@a>\z@
10474         \if@right@column@spread
10475         \else
10476             \vss
10477         \fi
10478     \else
10479         \ifdim\cuted@@tempdim@a<\z@
10480             \if@right@column@shrink
10481             \else
10482                 \vss
10483             \fi
10484         \fi
10485     \fi
10486 }%
10487 \wlog{CUTED [rightcolumn badness]: \number\badness}%
10488 \setbox\cuted@@tempbox@var\vbox{%
10489     \hb@xt@\textwidth{%
10490         \if@RTLmain
10491             \hskip \columnwidth
10492             \hfil
10493             {\normalcolor\vrule \@width\columnseprule}%
10494             \hfil
10495             \hb@xt@\columnwidth{%
10496                 \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10497                 \hss
10498             }%
10499             \hskip -\textwidth
10500             \hb@xt@\columnwidth{%
10501                 \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10502                 \hss
10503             }%
10504             \hskip \columnsep
10505             \hskip \columnwidth
10506         \else
10507             \hb@xt@\columnwidth{%
10508                 \vbox to\ht@viper{\box\cuted@@tempbox@a\vss}%
10509                 \hss
10510             }%
10511             \hfil
10512             {\normalcolor\vrule \@width\columnseprule}%
10513             \hfil
10514             \hb@xt@\columnwidth{%
10515                 \vbox to\ht@viper{\box\cuted@@varbox@a\vss}%
10516                 \hss
10517             }%
10518         \fi
10519     }%
10520 }%
10521 %%
10522 %% finalize cuted page
10523 %%

```



```

10524 \ifvoid\hold@viper
10525 \global\setbox\hold@viper\vbox{%
10526 \unvbox\cuted@@tempbox@var
10527 \penalty\interlinepenalty
10528 \vskip\stripsep
10529 \the\preCutedStrip
10530 \ifnum\outputpenalty<-\@Mii
10531 \vskip -\parskip
10532 \fi
10533 \outputpenalty\z@
10534 }%
10535 \else
10536 \global\setbox\hold@viper\vbox{%
10537 \unvbox\hold@viper
10538 \cuted@@tempbox@var
10539 \penalty\interlinepenalty
10540 \vskip\stripsep
10541 \the\preCutedStrip
10542 \ifnum\outputpenalty<-\@Mii
10543 \vskip -\parskip
10544 \fi
10545 \outputpenalty\z@
10546 }%
10547 \fi
10548 \ifdim\@colht>\@reqcolroom
10549 \global\setbox\hold@viper\vbox{%
10550 \unvbox\hold@viper
10551 \box\@viper
10552 \penalty\interlinepenalty
10553 \the\postCutedStrip
10554 \vskip\stripsep
10555 \ifnum\outputpenalty<-\@Mii
10556 \vskip -\parskip
10557 \fi
10558 \outputpenalty\z@
10559 }%
10560 \@inserttrue
10561 \global\@firstcolumntrue
10562 \advance\ht@hold@viper by-\ht\hold@viper
10563 \global\advance\@colht by\ht@hold@viper
10564 \ifdim\@colht<2.5\baselineskip
10565 \latex@warning@no@line {Optional argument of \noexpand\twocolumn
10566 too tall on page \thepage (\var@@thecol@num column)}}%
10567 \@emptycol
10568 \if@firstcolumn
10569 \else
10570 \@emptycol
10571 \fi
10572 \global\@lastvipertrue
10573 \else
10574 \global\vsizel\@colht
10575 \global\@colroom\@colht
10576 \check@floats\cuted@@tempdim@a
10577 \ifdim\cuted@@tempdim@a>\z@

```



```

10578         \global\advance\@colroom by-\cuted@@tempdim@a
10579     \fi
10580     \ifdim\@colroom<\z@
10581         \global\@colroom1\p@
10582         \ifdim\cuted@@tempdim@a>\@colht
10583             \@latex@warning@no@line{TOP and/or BOT FLOAT's
10584                 to large on \thepage (\var@@thecol@num column)}%
10585         \fi
10586         \@emptycol
10587         \if@firstcolumn
10588         \else
10589             \@emptycol
10590         \fi
10591         \global\@lastvipertrue
10592     \fi
10593 \fi
10594 \fi
10595 \if@insert
10596 \else
10597     \advance\ht@hold@viper by-\ht@hold@viper
10598     \global\advance\@colht by\ht@hold@viper
10599     \global\setbox\hold@viper\ vbox{%
10600         \unvbox\hold@viper
10601         \set@split@topskip@to{\z@ plus2\p@}%
10602         \vsplit\@viper to\@colht
10603         \vss
10604     }%
10605     \vbox{%
10606         \global\@firstcolumnfalse
10607         \newpage
10608     \fi
10609 }

```

## 76 File cvthemebidicasual.sty

```

10610 \NeedsTeXFormat{LaTeX2e}
10611 \ProvidesPackage{cvthemebidicasual}
10612 \DeclareOption{blue}{}
10613 \newif\if@colourorange\@colourorangefalse
10614 \DeclareOption{orange}{\@colourorangetrue}
10615 \newif\if@colourgreen\@colourgreenfalse
10616 \DeclareOption{green}{\@colourgreentrue}
10617 \newif\if@colourred\@colourredfalse
10618 \DeclareOption{red}{\@colourredtrue}
10619 \newif\if@colourgrey\@colourgreyfalse
10620 \DeclareOption{grey}{\@colourgreytrue}
10621 \DeclareOption*{
10622     \PackageWarning{cvthemebidicasual}{Unknown option '\CurrentOption'}}
10623 \ExecuteOptions{colour}
10624 \ProcessOptions\relax
10625 \renewcommand*\listitemsymbol{\textbullet}
10626 \definecolor{firstnamecolor}{rgb}{0.65,0.65,0.65}
10627 \familynamecolour{808080}
10628 \firstnamecolour{A9A9A9}

```



```

10629 \quotecolour{696969}
10630 \addresscolour{696969}
10631 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.50,0.75}
10632 \sectiontitlecolour{1E90FF}
10633 \subsectioncolour{4682B4}
10634 \definecolor{rulecolour}{gray}{0.6}
10635 \definecolor{footersymbolcolour}{rgb}{0.25,0.50,0.75}
10636 \definecolor{footersymbolcolor}{rgb}{0.25,0.50,0.75}
10637 \if@colouorange
10638 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.65,0.20}
10639 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10640 \sectiontitlecolour{FF8C00}
10641 \subsectioncolour{FF8C00}
10642 \definecolor{footersymbolcolour}{rgb}{0.95,0.55,0.15}
10643 \definecolor{footersymbolcolor}{rgb}{0.95,0.55,0.15}\fi
10644 \if@colourgreen
10645 \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10646 \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10647 \sectiontitlecolour{008000}
10648 \subsectioncolour{008000}
10649 \definecolor{footersymbolcolour}{rgb}{0.30,0.65,0.15}
10650 \definecolor{footersymbolcolor}{rgb}{0.30,0.65,0.15}\fi
10651 \if@coloured
10652 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10653 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10654 \sectiontitlecolour{FF0000}
10655 \subsectioncolour{FF0000}
10656 \definecolor{footersymbolcolour}{rgb}{0.95,0.20,0.20}
10657 \definecolor{footersymbolcolor}{rgb}{0.95,0.20,0.20}\fi
10658 \if@colourgrey
10659 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10660 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10661 \sectiontitlecolour{808080}
10662 \subsectioncolour{808080}
10663 \definecolor{footersymbolcolour}{rgb}{0.35,0.35,0.35}
10664 \definecolor{footersymbolcolor}{rgb}{0.35,0.35,0.35}\fi
10665 \renewcommand*{\ttdefault}{pcr}
10666 \renewcommand*{\firstnamefont}{\fontsize{38}{40}\mdseries\upshape}
10667 \renewcommand*{\familynamefont}{\firstnamefont}
10668 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10669 \renewcommand*{\quoteont}{\large\slshape}
10670 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10671 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10672 \renewcommand*{\maketitle}{%
10673   {%
10674     \ifthenelse{\isundefined{\@photo}}{%
10675       {}%
10676       {\color{firstnamecolor}\framebox{\includegraphics[width=\@photowidth]{\@photo}}}%
10677       \hfill%
10678       \bidi@raggedleft{\firstnamestyle{\@firstname}~\familynamestyle{\@familyname}}\[-.35em]}%
10679       {\color{firstnamecolor}\rule{\textwidth}{.25ex}\[-2.5em]}%
10680     \ifthenelse{\isundefined{\@quote}}{%
10681       {}%
10682       {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\[-.35em]}%

```



```

10683 }%
10684 \newif\if@firstfooterelement\@firstfooterelementtrue
10685 \providecommand*{\footersymbol}{}
10686 \renewcommand*{\footersymbol}{%
10687   \if@firstfooterelement%
10688   \else%
10689     { ~\color{footersymbolcolor}\textbullet~~}\fi}
10690 \providecommand*{\makefooter}{}
10691 \renewcommand*{\makefooter}{%
10692   \fancypagestyle{plain}{%
10693     \fancyfoot[c]{%
10694       \parbox{0.8\textwidth}{%
10695         \centering%
10696         \addressfont\@addresscolour%
10697         \ifthenelse{\isundefined{\@address}}{}{}%
10698         \addresssymbol~\@address\\%
10699         \@firstfooterelementfalse}%
10700         \ifthenelse{\isundefined{\@mobile}}{}{\mobilesymbol~\@mobile\@firstfooterelementfalse}%
10701         \ifthenelse{\isundefined{\@phone}}{}{\footersymbol\phonesymbol~\@phone\@firstfooterelementfalse}%
10702         \ifthenelse{\isundefined{\@fax}}{}{\footersymbol\faxsymbol~\@fax\@firstfooterelementfalse}%
10703         \ifthenelse{\isundefined{\@email}}{}{\footersymbol\emailsymbol~\emailink{\@email}\@firstfooterelementfalse}%
10704         \ifthenelse{\isundefined{\@extrainfo}}{}{\footersymbol\@extrainfo\@firstfooterelementfalse}%
10705       }%
10706     \pagestyle{plain}}
10707 \AtBeginDocument{\makefooter}

```

## 77 File cvthemebidiclassic.sty

```

10708 \NeedsTeXFormat{LaTeX2e}
10709 \ProvidesPackage{cvthemebidiclassic}
10710 \DeclareOption{blue}{}
10711 \newif\if@colourorange\@colourorangefalse
10712 \DeclareOption{orange}{\@colourorangetrue}
10713 \newif\if@colourgreen\@colourgreenfalse
10714 \DeclareOption{green}{\@colourgreentrue}
10715 \newif\if@colourred\@colourredfalse
10716 \DeclareOption{red}{\@colourredtrue}
10717 \newif\if@colourgrey\@colourgreyfalse
10718 \DeclareOption{grey}{\@colourgreytrue}
10719 \DeclareOption*{
10720   \PackageWarning{cvthemebidiclassic}{Unknown option ‘\CurrentOption’}}
10721 \ExecuteOptions{colour}
10722 \ProcessOptions\relax
10723 \renewcommand*{\listitemsymbol}{\textbullet}
10724 \firstnamecolour{}
10725 \familynamecolour{}
10726 \titlecolour{808080}
10727 \quotecolour{696969}
10728 \addresscolour{696969}
10729 \definecolor{sectionrectanglecolour}{rgb}{0.25,0.50,0.75}
10730 \definecolor{sectionrectanglecolor}{rgb}{0.25,0.5,0.75}
10731 \sectiontitlecolour{1E90FF}
10732 \subsectioncolour{4682B4}
10733 \if@colourorange

```





```

10734 \addresscolour{FF8C00}
10735 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.65,0.20}
10736 \definecolor{sectionrectanglecolor}{rgb}{1,0.65,0.20}
10737 \sectiontitlecolour{FF8C00}
10738 \subsectioncolour{FF8C00}\fi
10739 \if@colourgreen
10740 \addresscolour{008000}
10741 \definecolor{sectionrectanglecolour}{rgb}{0.55,0.85,0.35}
10742 \definecolor{sectionrectanglecolor}{rgb}{0.55,0.85,0.35}
10743 \sectiontitlecolour{008000}
10744 \subsectioncolour{008000}\fi
10745 \if@colourred
10746 \addresscolour{FF0000}
10747 \definecolor{sectionrectanglecolour}{rgb}{1.00,0.30,0.30}
10748 \definecolor{sectionrectanglecolor}{rgb}{1.00,0.30,0.30}
10749 \sectiontitlecolour{FF0000}
10750 \subsectioncolour{FF0000}\fi
10751 \if@colourgrey
10752 \addresscolour{808080}
10753 \definecolor{sectionrectanglecolour}{rgb}{0.75,0.75,0.75}
10754 \definecolor{sectionrectanglecolor}{rgb}{0.75,0.75,0.75}
10755 \sectiontitlecolour{808080}
10756 \subsectioncolour{808080}\fi
10757 \renewcommand*{\ttdefault}{pcr}
10758 \renewcommand*{\firstnamefont}{\fontsize{34}{36}\mdseries\upshape}
10759 \renewcommand*{\titlefont}{\LARGE\mdseries\slshape}
10760 \renewcommand*{\addressfont}{\normalsize\mdseries\slshape}
10761 \renewcommand*{\familynamefont}{\firstnamefont}
10762 \renewcommand*{\quoteftfont}{\large\slshape}
10763 \renewcommand*{\sectionfont}{\Large\mdseries\upshape}
10764 \renewcommand*{\subsectionfont}{\large\mdseries\upshape}
10765 \newlength{\maketitlenamemaxwidth}
10766 \setlength{\maketitlenamemaxwidth}{.525\textwidth}
10767 \newlength{\maketitlenamewidth}
10768 \setlength{\maketitlenamewidth}{\maketitlenamemaxwidth}
10769 \newlength{\maketitlepicturewidth}
10770 \setlength{\maketitlepicturewidth}{\@photowidth}
10771 \newlength{\maketitledetailwidth}
10772 \renewcommand*{\recomputethemelengths}{%
10773 \setlength{\maketitledetailwidth}{\textwidth}%
10774 \addtolength{\maketitledetailwidth}{-\maketitlenamewidth}%
10775 \addtolength{\maketitledetailwidth}{-\separatorcolumnwidth}%
10776 \addtolength{\maketitledetailwidth}{-\maketitlepicturewidth}}
10777 \recomputethemelengths
10778 \newif\if@firstdetailselement\@firstdetailselementtrue
10779 \newcommand*{\maketitledetailsnewline}{%
10780 \if@firstdetailselement%
10781 \@firstdetailselementfalse%
10782 \else%
10783 \\\[.2em]\fi}
10784 \renewcommand*{\maketitle}{%
10785 % name and title

```



```

10788 \begin{minipage}[b]{\maketitlewidth}%
10789 \firstnamestyle{\@firstname~}\familynamestyle{\@familyname}%
10790 \ifthenelse{\equal{\@title}{}}{\}[1.25em]\titlestyle{\@title}}%
10791 \end{minipage}%
10792 % optional data
10793 \begin{minipage}[b]{\maketitledetailwidth}%
10794 \bidi@raggedleft\addressfont\addresscolour%
10795 \ifthenelse{\isundefined{\@address}}{\}%
10796 \maketitledetailnewline%
10797 \addresssymbol~\@address}%
10798 \ifthenelse{\isundefined{\@mobile}}{\}\maketitledetailnewline\mobilesymbol~\@mobile}%
10799 \ifthenelse{\isundefined{\@phone}}{\}\maketitledetailnewline\phonesymbol~\@phone}%
10800 \ifthenelse{\isundefined{\@fax}}{\}\maketitledetailnewline\faxsymbol~\@fax}%
10801 \ifthenelse{\isundefined{\@email}}{\}\maketitledetailnewline\emailsymbol~\emailink{\@e
10802 \ifthenelse{\isundefined{\@extrainfo}}{\}\maketitledetailnewline\@extrainfo}%
10803 \end{minipage}%
10804 % optional photo
10805 \ifthenelse{\isundefined{\@photo}}{\}%
10806 {\hspace*{\separatorcolumnwidth}\color{firstnamecolor}\framebox{\includegraphics[width=
10807 % optional quote
10808 \ifthenelse{\isundefined{\@quote}}{\}%
10809 {\centering{\begin{minipage}{\quotewidth}\centering\quotestyle{\@quote}\end{minipage}}\
10810 }
10811 }
10812 }

```

## 78 File dblfnote-xetex-bidi.def

```

10813 \ProvidesFile{dblfnote-xetex-bidi.def}[2012/12/12 v0.3 bidi adaptations for dblfnote package]
10814 \let\autofooterule\relax
10815 \let\rightfootnoterule\relax
10816 \let\leftfootnoterule\relax
10817 \let\textwidthfootnoterule\relax
10818 \let\LRfootnoterule\relax
10819 \def\footnoterule{\kern-3\p@
10820 \hrule \@width \DFNcolumnwidth \kern 2.6\p@}%
10821 \AtBeginDocument{\let\dfn@latex@footnotetext\@footnotetext
10822 \let\@footnotetext\dfn@footnotetext}
10823 \long\def\dfn@LTRfootnotetext#1{\setbox\dfn@boxa\vbox{
10824 \let\insert\dfn@gobble
10825 \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10826 \def\@makefnmark{\smash{\dfn@makefnmark}}
10827 \dfn@latex@LTRfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10828 \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10829 \ifdim\dfn@dima>\z@else
10830 \dfn@dima\sp\relax
10831 \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10832 \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10833 \ifvoid\dfn@ins\else
10834 \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10835 \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10836 \setbox\dfn@boxa\copy\dfn@ins
10837 \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10838 \advance\@tempdima\@tempdima \@tempdima \@tempdima

```



```

10839      \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10840      \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10841      \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10842 \AtBeginDocument{\let\dfn@latex@LTRfootnotetext\@LTRfootnotetext
10843 \let\@LTRfootnotetext\dfn@LTRfootnotetext}
10844 \long\def\dfn@RTLfootnotetext#1{{\setbox\dfn@boxa\vbox{
10845     \let\insert\dfn@gobble
10846     \columnwidth\DFNcolumnwidth \hbadness\c@DFNsloppiness
10847     \def\@makefnmark{\smash{\dfn@makefnmark}}
10848     \dfn@latex@RTLfootnotetext{#1}\par \boxmaxdepth\dfn@fnmaxdp}%
10849     \dfn@dima\ht\dfn@boxa \advance\dfn@dima\dp\dfn@boxa
10850     \ifdim\dfn@dima>z@\else
10851         \dfn@dima1sp\relax
10852         \setbox\dfn@boxa\vbox{\vbox to1sp{\unvbox\dfn@boxa\vfil}}\fi
10853     \global\setbox\dfn@ins\vbox{\boxmaxdepth\dfn@fnmaxdp
10854         \ifvoid\dfn@ins\else
10855             \unvbox\dfn@ins \allowbreak \nointerlineskip \fi
10856         \ifdfn@allowcbreak \unvbox \else \box \fi \dfn@boxa}%
10857     \setbox\dfn@boxa\copy\dfn@ins
10858     \dfn@split{.5\ht\dfn@boxa}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10859     \advance\@tempdima\@tempdimb \@tempdimb\@tempdima
10860     \advance\@tempdima-\dfn@fnht \global\dfn@fnht\@tempdimb
10861     \insert\footins{\floatingpenalty\@MM \vbox to\@tempdima{}}%
10862     \xdef\dfn@list{\dfn@list\@elt{\number\dfn@dima}{\number\@tempdima}}}}
10863 \AtBeginDocument{\let\dfn@latex@RTLfootnotetext\@RTLfootnotetext
10864 \let\@RTLfootnotetext\dfn@RTLfootnotetext}
10865 \def\dfn@RTLmakecol{{\ifvoid\footins\else
10866     \dfn@dima\ht\footins
10867     \@tempcnta\z@ \dfn@countins
10868     \@tempdima\z@ \let\@elt\dfn@elt@getht
10869     \dfn@list\@nil
10870     \ifdim\@tempdima=\z@\else
10871         \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10872         \global\setbox\dfn@ins\box\dfn@ins
10873         \@tempswatrue
10874         \ifdfn@trysingle
10875             \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10876             \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10877             \advance\@tempdima-\skip\footins
10878             \advance\@tempdima-\ht\dfn@boxa
10879             \ifdim\@tempdima<\z@\else \@tempswafalse
10880                 \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10881                     \footnoterule \unvbox\dfn@boxa}\fi\fi
10882         \if@tempswa
10883             \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10884             \global\setbox\footins\vbox{\hbox{%
10885                 \hskip \DFNcolumnwidth
10886                 \hskip\DFNcolumnsep
10887                 \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10888                     \unvbox\dfn@boxb\vss}\hss}
10889                 \hskip -\textwidth
10890                 \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10891                     \vbox to\@tempdima{
10892                         \setbox\@tempboxa\vbox{\footnoterule}

```



```

10893             \ifdfn@ruleboth \unvbox\@tempboxa
10894             \else \@tempdima\ht\@tempboxa
10895                 \advance\@tempdima\dp\@tempboxa
10896                 \vskip\@tempdima
10897                 \prevdepth\dp\@tempboxa \fi
10898             \unvbox\dfn@boxa\vss}\fi\hss}
10899             \hskip \DFNcolumnsep
10900             \hskip \DFNcolumnwidth}}\fi\fi
10901 \global\dfn@fnht\z@
10902 \ifx\dfn@list\@empty\else
10903     \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10904     \dfn@list \global\advance\dfn@fnht\dfn@dimb
10905     \let\@elt\relax
10906     \ifdim\dfn@dimb>\z@
10907         \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10908         \insert\footins{\floatingpenalty\@MM
10909             \vbox to\dfn@dimb{}}\fi
10910     \ifdim\dfn@fnht>\@tempdima
10911         \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10912         \global\dfn@fnht\@tempdima
10913         \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}%
10914         \xdef\dfn@afteroutput{\insert\footins{
10915             \floatingpenalty\@MM
10916             \vbox to\number\@tempdimb sp{}}}%
10917         \global\let\noexpand\dfn@afteroutput\relax}%
10918     \fi\fi
10919 \fi}%
10920 \let\footnoterule\relax \dfn@latex@makecol
10921 \let\footnoterule\dfn@footnoterule}
10922 \def\dfn@LTRmakecol{{\ifvoid\footins\else
10923     \dfn@dima\ht\footins
10924     \@tempcnta\z@ \dfn@countins
10925     \@tempdima\z@ \let\@elt\dfn@elt@getht
10926     \dfn@list\@nil
10927     \ifdim\@tempdima=\z@ \else
10928     \dfn@split\@tempdima\dfn@ins\dfn@boxa\z@\z@
10929     \global\setbox\dfn@ins\box\dfn@ins
10930     \@tempswatrue
10931     \ifdfn@trysingle
10932         \setbox\dfn@boxb\vbox{\unvcopy\@cclv}\@tempdima\@colroom
10933         \advance\@tempdima-\ht\dfn@boxb \advance\@tempdima-\dp\dfn@boxb
10934         \advance\@tempdima-\skip\footins
10935         \advance\@tempdima-\ht\dfn@boxa
10936         \ifdim\@tempdima<\z@ \else \@tempswafalse
10937             \global\setbox\footins\vbox{\boxmaxdepth\dfn@fnmaxdp
10938                 \footnoterule \unvbox\dfn@boxa}\fi\fi
10939     \if@tempswa
10940     \dfn@split{\dfn@dima}\dfn@boxa\dfn@boxb\dfn@fnmaxdp\footnotesep
10941     \global\setbox\footins\vbox{\hbox{%
10942         \hbox to\DFNcolumnwidth{\vbox to\@tempdima{\footnoterule
10943             \unvbox\dfn@boxb\vss}\hss}\hskip\DFNcolumnsep
10944         \hbox to\DFNcolumnwidth{\ifvoid\dfn@boxa\else
10945             \vbox to\@tempdima{
10946                 \setbox\@tempboxa\vbox{\footnoterule}

```



```

10947 \ifdfn@ruleboth \unvbox\@tempboxa
10948 \else \@tempdima\ht\@tempboxa
10949 \advance\@tempdima\dp\@tempboxa
10950 \vskip\@tempdima
10951 \prevdepth\dp\@tempboxa \fi
10952 \unvbox\dfn@boxa\vss}\fi\hss}}}\fi\fi
10953 \global\dfn@fnht\z@
10954 \ifx\dfn@list\@empty\else
10955 \let\@elt\dfn@elt@adjust \dfn@dima\z@ \dfn@dimb\z@
10956 \dfn@list \global\advance\dfn@fnht\dfn@dimb
10957 \let\@elt\relax
10958 \ifdim\dfn@dimb>\z@
10959 \xdef\dfn@list{\@elt{0}{\number\dfn@dimb}\dfn@list}%
10960 \insert\footins{\floatingpenalty\@MM
10961 \vbox to\dfn@dimb{}}}\fi
10962 \ifdim\dfn@fnht>\@tempdima
10963 \@tempdimb\@tempdima \advance\@tempdimb-\dfn@fnht
10964 \global\dfn@fnht\@tempdima
10965 \xdef\dfn@list{\dfn@list\@elt{0}{\number\@tempdimb}}}%
10966 \xdef\dfn@afteroutput{\insert\footins{
10967 \floatingpenalty\@MM
10968 \vbox to\number\@tempdimb sp{}}}%
10969 \global\let\noexpand\dfn@afteroutput\relax}%
10970 \fi\fi
10971 \fi}%
10972 \let\footnoterule\relax \dfn@latex@makecol
10973 \let\footnoterule\dfn@footnoterule}
10974 \renewcommand{\dfn@makecol}{\if@RTLmain\dfn@RTLmakecol\else\dfn@LTRmakecol\fi}
10975 \newcommand{\RTLdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@RTLmakecol}}
10976 \newcommand{\LTRdfnmakecol}{\renewcommand{\dfn@makecol}{\dfn@LTRmakecol}}
10977 \DFNalwaysdouble

```

## 79 File diagbox-xetex-bidi.def

```

10978 \ProvidesFile{diagbox-xetex-bidi.def}[2017/12/30 v0.2 bidi adaptations for diagbox package f
10979 \bidi@patchcmd{\diagbox@double}{%
10980 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10981 }{\bidi@@diagbox@double@ii}{-}{-}
10982 \bidi@patchcmd{\diagbox@double}{%
10983 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10984 }{\bidi@@diagbox@double@iii}{-}{-}
10985 \newcommand*{\bidi@@diagbox@double@ii}{%
10986 \if@RTL
10987 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}}
10988 \else
10989 \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
10990 \fi
10991 }
10992 \newcommand*{\bidi@@diagbox@double@iii}{%
10993 \if@RTL
10994 \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
10995 \else
10996 \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
10997 \fi

```



```

10998 }
10999 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11000     \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11001 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
11002 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11003     \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11004 }{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{-}{-}
11005 \bidi@patchcmd{\diagbox@triple@setbox@NW}{%
11006     \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
11007 }{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{-}{-}
11008 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@i@ii}{%
11009     \if@RTL
11010         \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepl}}}}
11011     \else
11012         \begin{tabular}{@{\hspace{\diagbox@insepl}}>{\diagbox@font}l@{}}
11013     \fi}
11014 \newcommand*{\bidi@@diagbox@triple@setbox@NW@tabular@iii}{%
11015     \if@RTL
11016         \begin{tabular}{@{\hspace{\diagbox@insepr}}>{\diagbox@font}l@{}}
11017     \else
11018         \begin{tabular}{@{}>{\diagbox@font}r@{\hspace{\diagbox@insepr}}}}
11019     \fi}
11020 \let\diagbox@triple@setbox@SW\diagbox@triple@setbox@NW
11021 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11022     \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}%
11023 }{\bidi@@diagbox@triple@setbox@SE@tabular@i}{-}{-}
11024 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11025     \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11026 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
11027 \bidi@patchcmd{\diagbox@triple@setbox@SE}{%
11028     \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}%
11029 }{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{-}{-}
11030 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@i}{%
11031     \if@RTL
11032         \begin{tabular}{@{}r@{\hspace{\diagbox@insepl}}}}
11033     \else
11034         \begin{tabular}{@{\hspace{\diagbox@insepl}}l@{}}
11035     \fi}
11036 }
11037 \newcommand*{\bidi@@diagbox@triple@setbox@SE@tabular@ii@iii}{%
11038     \if@RTL
11039         \begin{tabular}{@{\hspace{\diagbox@insepr}}l@{}}
11040     \else
11041         \begin{tabular}{@{}r@{\hspace{\diagbox@insepr}}}}
11042     \fi}
11043 }
11044 \let\diagbox@triple@setbox@NE\diagbox@triple@setbox@SE
11045 \bidi@patchcmd{\diagbox@double@pict@SE}{%
11046     \diagbox@setlinecolor
11047     \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)%
11048 }{%
11049     {\diagbox@setlinecolor
11050     \Line(0,\strip@pt\diagbox@ht)(\strip@pt\diagbox@wd,0)}%
11051 }{-}{-}

```



```

11052 \let\diagbox@double@pict@NW\diagbox@double@pict@SE
11053 \bidi@patchcmd{\diagbox@double@pict@NE}{%
11054   \diagbox@setlinecolor
11055   \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}%
11056 }{%
11057   {\diagbox@setlinecolor
11058    \Line(0,0)(\strip@pt\diagbox@wd,\strip@pt\diagbox@ht)}}%
11059 }{}{}
11060 \let\diagbox@double@pict@SW\diagbox@double@pict@NE
11061 \bidi@patchcmd{\diagbox@triple@pict@NW}{%
11062   \diagbox@setlinecolor
11063   \Line(0,\yym)(\x,0)
11064   \Line(\xm,\y)(\x,0)}%
11065 }{%
11066   {\diagbox@setlinecolor
11067    \Line(0,\yym)(\x,0)
11068    \Line(\xm,\y)(\x,0)}}%
11069 }{}{}
11070 \bidi@patchcmd{\diagbox@triple@pict@NE}{%
11071   \diagbox@setlinecolor
11072   \Line(0,0)(\xxm,\y)
11073   \Line(0,0)(\x,\yym)}%
11074 }{%
11075   {\diagbox@setlinecolor
11076    \Line(0,0)(\xxm,\y)
11077    \Line(0,0)(\x,\yym)}}%
11078 }{}{}
11079 \bidi@patchcmd{\diagbox@triple@pict@SW}{%
11080   \diagbox@setlinecolor
11081   \Line(0,\ym)(\x,\y)
11082   \Line(\xm,0)(\x,\y)}%
11083 }{%
11084   {\diagbox@setlinecolor
11085    \Line(0,\ym)(\x,\y)
11086    \Line(\xm,0)(\x,\y)}}%
11087 }{}{}
11088 \bidi@patchcmd{\diagbox@triple@pict@SE}{%
11089   \diagbox@setlinecolor
11090   \Line(0,\y)(\xxm,0)
11091   \Line(0,\y)(\x,\ym)}%
11092 }{%
11093   {\diagbox@setlinecolor
11094    \Line(0,\y)(\xxm,0)
11095    \Line(0,\y)(\x,\ym)}}%
11096 }{}{}

```

## 80 File draftwatermark-xetex-bidi.def

```

11097 \ProvidesFile{draftwatermark-xetex-bidi.def}[2010/07/25 v0.2 bidi adaptations for draftwater
11098 \renewcommand\SetWatermarkText[1]{%
11099   \def\sc@wm@text{\if@RTLmain\beginR\fi#1\if@RTLmain\endR\fi}}

```

## 81 File eso-pic-xetex-bidi.def



```

11100 \ProvidesFile{eso-pic-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for eso-pic package f
11101 \renewcommand\AtPageLowerLeft[1]{\AtPageUpperLeft{%
11102   \put(\if@RTLmain\paperwidth\else 0\fi,-\paperheight){#1}}
11103
11104 \ESO@isMEMOIR{%
11105   \renewcommand\AtTextUpperLeft[1]{%
11106     \begingroup
11107       \ifodd\c@page
11108         \if@RTLmain
11109           \ESO@tempdima=\paperwidth
11110           \advance\ESO@tempdima-\textwidth
11111           \advance\ESO@tempdima-\spinemargin
11112         \else
11113           \ESO@tempdima=\spinemargin
11114         \fi
11115       \else
11116         \if@RTLmain
11117           \ESO@tempdima=\spinemargin
11118         \else
11119           \ESO@tempdima=\paperwidth
11120           \advance\ESO@tempdima-\textwidth
11121           \advance\ESO@tempdima-\spinemargin
11122         \fi
11123       \fi
11124       \ESO@tempdimb=-\uppermargin
11125       \AtPageUpperLeft{%
11126         \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11127       }%
11128     \endgroup
11129   }
11130 }{%
11131   \renewcommand\AtTextUpperLeft[1]{%
11132     \begingroup
11133       \ESO@tempdima=1in\relax
11134       \if@twoside
11135         \ifodd\c@page
11136           \if@RTLmain
11137             \advance\ESO@tempdima\evensidemargin
11138           \else
11139             \advance\ESO@tempdima\oddsidemargin
11140           \fi
11141         \else
11142           \if@RTLmain
11143             \advance\ESO@tempdima\oddsidemargin
11144           \else
11145             \advance\ESO@tempdima\evensidemargin
11146           \fi
11147         \fi
11148       \else
11149         \advance\ESO@tempdima\oddsidemargin
11150       \fi
11151       \ESO@tempdimb=-1in\relax
11152       \advance\ESO@tempdimb-\topmargin
11153       \advance\ESO@tempdimb-\headheight

```





```

11154      \advance\ESO@tempdimb-\headsep
11155      \AtPageUpperLeft{%
11156        \put(\if@RTLmain-\textwidth-\fi\ESO@tempdima,\ESO@tempdimb){#1}%
11157      }%
11158    \endgroup
11159  }
11160 }

```

## 82 File empheq-xetex-bidi.def

```

11161 \ProvidesFile{empheq-xetex-bidi.def}[2018/01/08 v0.2 bidi adaptations for empheq package for
11162 \MHInternalSyntaxOn
11163 \def\EQ_tag_plus_endmark:{%
11164   \iftagsleft@
11165     \gdef\maketag@@@#1{%
11166       \hfuzz\displaywidth
11167       \if@RTL\makebox[\widthof{##1}][r]{%
11168         \hbox to \displaywidth{\m@th\normalfont##1\hss
11169           \raisebox{-\dp\EQ_mathdisplay_box
11170             -\depthof{\EQ_outerbox:}}{
11171             {\PotEndMark{\hss}}}}
11172       \else\makebox[\widthof{##1}][l]{%
11173         \hbox to \displaywidth{\m@th\normalfont##1\hss
11174           \raisebox{-\dp\EQ_mathdisplay_box
11175             -\depthof{\EQ_outerbox:}}{
11176             {\PotEndMark{\hss}}}}\fi}%
11177   \MH_else:
11178     \gdef\maketag@@@#1{%
11179       \hbox{\m@th\normalfont##1\llap{\hss\PotEndMark{%
11180         \settoheight{\@tempdima}{\@nameuse{\InTheoType Symbol}}%
11181         \MH_addtolength:dn \@tempdima
11182         {\g_EQ_bottomtag_depth_dim+\mintagvsep}
11183         \setlength{\@tempdimb}
11184         {\g_EQ_bottomrow_depth_dim+\depthof{\EQ_outerbox:}}
11185         +\depthof{\EQ_innerbox:}}}}
11186       \MH_if_dim:w \@tempdima>\@tempdimb
11187       \MH_setlength:dn \@tempdima{-\dp\EQ_mathdisplay_box
11188         -\@tempdima+\g_EQ_bottomrow_depth_dim}
11189       \addtolength{\@tempdima}{\depthof{\EQ_innerbox:}}}%
11190       \def\EQ_next:{\raisebox{\@tempdima}}%
11191     \MH_else:
11192     \def\EQ_next:{
11193       \raisebox{-\dp\EQ_mathdisplay_box
11194         -\depthof{\EQ_outerbox:}}}%
11195     \MH_fi:\EQ_next:}}}%
11196   \MH_fi:}
11197 \def\EQ_post_process:{%
11198   \EQ_initialize:
11199   \EQ_begin_equation:
11200   \MH_if_boolean:nT {outer_mult}{
11201     \setkeys{MT_options_name}{
11202       firstline-afterskip=0pt,
11203       lastline-preskip=0pt,
11204       multlined-width=0pt,

```



```

11205 }
11206 \ifodd \l_EQ_alignmentmode_int
11207   \setkeys{\MT_options_name:}{multlined-pos=b}
11208 \MH_else:
11209   \setkeys{\MT_options_name:}{multlined-pos=t}
11210 \MH_fi:
11211   \g@addto@macro\EQ_complete_mathdisplay:{
11212     \begin{MTmultlined}\relax}
11213 }
11214 \g@addto@macro\EQ_complete_mathdisplay:\EQ_mathbody:
11215 \MH_if_boolean:nT {outer_mult}{
11216   \g@addto@macro\EQ_complete_mathdisplay:{\end{MTmultlined}}
11217 }
11218 \EQ_end_equation:
11219 \edef\EQ_hyperref_link_fint{\number\Hy@linkcounter}
11220 \savecounters@
11221 \EQ_typeset_tags:
11222 \edef\l_EQ_equation_fint{\number\c@equation}
11223 \restorecounters@
11224 \Hy@linkcounter=\EQ_hyperref_link_fint
11225 \settowidth\l_EQ_totalwidth_dim{%
11226   $\EQ_left_side:\EQ_innerbox:{}\EQ_right_side:$}%
11227 \MH_if_boolean:nTF {outer_mult}
11228   { \def\EQ_next:{_mult} }
11229   { \def\EQ_next:{} }
11230 \@nameuse{EQ_modify_linewidth_
11231   \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11232 \EQ_typeset_display:
11233 \@nameuse{EQ_find_displaywidth_
11234   \romannumeral\l_EQ_equationtype_int\EQ_next: :}%
11235 \MH_addtolength:dn
11236   \l_EQ_totalwidth_dim{\l_EQ_displaywidth_dim}
11237 \savebox\EQ_mathdisplay_box[\l_EQ_totalwidth_dim][c]{%
11238   $\EQ_left_side:
11239   \EQ_innerbox:{%
11240     \MH_if_case:w \l_EQ_alignmentmode_int\MH_or:
11241       \makebox[\l_EQ_displaywidth_dim][c]
11242         {\usebox{\EQ_mathdisplay_box}}}%
11243     \MH_or:
11244       \makebox[\l_EQ_displaywidth_dim][c]
11245         {\usebox{\EQ_mathdisplay_box}}}%
11246     \MH_or:
11247       \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11248         \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11249           \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11250             \kern-\@mathmargin
11251             \MH_fi:
11252           \MH_fi:
11253             \usebox{\EQ_mathdisplay_box}}}%
11254       \else\makebox[\l_EQ_displaywidth_dim][l]{%
11255         \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11256           \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11257             \kern-\@mathmargin
11258             \MH_fi:

```



```

11259         \MH_fi:
11260         \usebox{\EQ_mathdisplay_box}}\fi%
11261     \MH_or:
11262     \if@RTL\makebox[\l_EQ_displaywidth_dim][r]{%
11263         \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11264         \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11265         \kern-\@mathmargin
11266         \MH_fi:
11267     \MH_fi:
11268     \usebox{\EQ_mathdisplay_box}}
11269 \else\makebox[\l_EQ_displaywidth_dim][l]{%
11270     \MH_if_num:w \l_EQ_equationtype_int=5 \MH_else:
11271     \MH_if_num:w \l_EQ_equationtype_int=6 \MH_else:
11272     \kern-\@mathmargin
11273     \MH_fi:
11274 \MH_fi:
11275     \usebox{\EQ_mathdisplay_box}}\fi%
11276 \MH_fi:}%
11277 \EQ_right_side:$}%
11278 \begin{AmSequation*}
11279 \@nameuse{EQ_place_display_
11280     \romannumeral\l_EQ_equationtype_int\EQ_next: :}
11281 \MH_if_dim:w \g_EQ_widesttag_dim>\z@
11282 \MH_set_boolean_T:n {show_manual_tags}
11283 \MH_if_case:w \l_EQ_alignmentmode_int
11284 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#1
11285 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#2
11286 \MH_or: \if@RTL\EQ_place_tag:N l\else\EQ_place_tag:N r\fi %#3
11287 \MH_or: \if@RTL\EQ_place_tag:N r\else\EQ_place_tag:N l\fi %#4
11288 \MH_fi:
11289 \MH_fi:
11290 \end{AmSequation*}
11291 \global\c@equation=\l_EQ_equation_fint\relax
11292 }
11293 \AtBeginDocument{%
11294 \@ifpackageloaded{fancybox}{%
11295     \@ifpackageloaded{color}{\definecolor{shadowcolor}{rgb}{0,0,0}}%
11296     {\renewcommand*\textcolor[2]{\normalcolor{#2}}}%
11297     \renewcommand*{\shadowbox{%
11298         \@ifstar{\MH_set_boolean_T:n {shadowbox_star}
11299             \VerbBox\EQ_shadowbox:n}
11300         {\MH_set_boolean_F:n {shadowbox_star}
11301             \VerbBox\EQ_shadowbox:n}}
11302     \def\EQ_shadowbox:n #1{%
11303         \sbox{\z@}{\fbox{#1}}%
11304         \MH_if_boolean:nTF {shadowbox_star}{
11305             \MH_setlength:dn \@tempdima{\z@}%
11306         }{
11307             \MH_setlength:dn \@tempdima{\dp\z@+\shadowsize}%
11308         }
11309         \raisebox{\@tempdima}{%
11310             \if@RTL\makebox[\z@][r]{%
11311                 \kern\shadowsize \textcolor{shadowcolor}{%
11312                     \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%

```



```

11313     }%
11314     \else\makebox[\z@][l]{%
11315         \kern\shadowsize \textcolor{shadowcolor}{%
11316             \rule[-\dp\z@-\shadowsize]{\wd\z@}{\shadowsize}}%
11317     }\fi%
11318     \usebox\z@\textcolor{shadowcolor}{%
11319         \rule[-\dp\z@-\shadowsize]{\shadowsize}{\ht\z@+\dp\z@}}}%
11320 }{}%
11321 }
11322 \MHInternalSyntaxOff

```

## 83 File extarticle-xetex-bidi.def

```

11323 \ProvidesFile{extarticle-xetex-bidi.def}[2025/01/05 v0.5 bidi adaptations for extarticle cla
11324 \renewcommand*\l@section[2]{%
11325     \ifnum \c@tocdepth >\z@
11326         \addpenalty\@secpenalty
11327         \addvspace{1.0em \@plus\p@}%
11328         \setlength\@tempdima{1.5em}%
11329         \begingroup
11330             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11331             \parfillskip -\@pnumwidth
11332             \leavevmode \bfseries
11333             \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
11334             \hskip -\if@RTL\rightskip\else\leftskip\fi
11335             #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
11336         \endgroup
11337     \fi}
11338 \renewcommand*\l@part[2]{%
11339     \ifnum \c@tocdepth >-2\relax
11340         \addpenalty\@secpenalty
11341         \addvspace{2.25em \@plus\p@}%
11342         \begingroup
11343             \setlength\@tempdima{3em}%
11344             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
11345             \parfillskip -\@pnumwidth
11346             {\leavevmode
11347                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11348             \nobreak
11349         \endgroup
11350     \fi}
11351 \def\@part[#1]#2{%
11352     \ifnum \c@secnumdepth >\m@ne
11353         \refstepcounter{part}%
11354         \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
11355     \else
11356         \addcontentsline{toc}{part}{#1}%
11357     \fi
11358     {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11359     \interlinepenalty \@M
11360     \normalfont
11361     \ifnum \c@secnumdepth >\m@ne
11362         \Large\bfseries \partname~\thepart
11363     \par\nobreak

```



```

11364 \fi
11365 \huge \bfseries #2%
11366 \markboth{}{}\par}%
11367 \nobreak
11368 \vskip 3ex
11369 \@afterheading}
11370 \ApplyPatchIfPackageLoaded{nameref}{%
11371 \bidi@patchcmd\NR@spart\raggedright{%
11372 \if@RTL\raggedleft\else\raggedright\fi
11373 }{}{\bidi@warningnoline{Oops! patching '\string\NR@spart' failed}}}%
11374 }{%
11375 \bidi@patchcmd\@spart\raggedright{%
11376 \if@RTL\raggedleft\else\raggedright\fi
11377 }{}{\bidi@warningnoline{Oops! patching '\string\@spart' failed}}}%
11378 }
11379 \renewenvironment{thebibliography}[1]
11380 {\section*{\refname
11381 \@mkboth{\MakeUppercase\refname}{\MakeUppercase\refname}}%
11382 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11383 \bidi@@thebibliography@font@hook%
11384 \list{\@biblabel{\@arabic\c@enumiv}}%
11385 {\settowidth\labelwidth{\@biblabel{#1}}%
11386 \leftmargin\labelwidth
11387 \advance\leftmargin\labelsep
11388 \@openbib@code
11389 \usecounter{enumiv}%
11390 \let\p@enumiv\@empty
11391 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11392 \sloppy\clubpenalty4000\widowpenalty4000%
11393 \sfcode\.\@m}
11394 {\def\@noitemerr
11395 {\@latex@warning{Empty `thebibliography' environment}}}%
11396 \endlist}
11397 \renewcommand\left@footnoterule{%
11398 \kern-3\p@
11399 \hrule\@width.4\columnwidth
11400 \kern2.6\p@}
11401 \renewcommand\right@footnoterule{%
11402 \kern-3\p@
11403 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11404 \kern2.6\p@}
11405 \if@titlepage
11406 \renewcommand\maketitle{\begin{titlepage}%
11407 \let\footnotesize\small
11408 \let\right@footnoterule\relax
11409 \let\left@footnoterule\relax
11410 \let\textwidth\footnoterule\relax
11411 \let\footnote\thanks
11412 \null\vfil
11413 \vskip 60\p@
11414 \begin{center}%
11415 {\LARGE \@title \par}%
11416 \vskip 3em%
11417 {\large

```



```

11418 \lineskip .75em%
11419 \begin{tabular}[t]{c}%
11420 \@author
11421 \end{tabular}\par}%
11422 \vskip 1.5em%
11423 {\large \@date \par}% % Set date in \large size.
11424 \end{center}\par
11425 \@thanks
11426 \vfil\null
11427 \end{titlepage}%
11428 \setcounter{footnote}{0}%
11429 \global\let\thanks\relax
11430 \global\let\maketitle\relax
11431 \global\let\@thanks\@empty
11432 \global\let\@author\@empty
11433 \global\let\@date\@empty
11434 \global\let\@title\@empty
11435 \global\let\title\relax
11436 \global\let\author\relax
11437 \global\let\date\relax
11438 \global\let\and\relax
11439 }
11440 \else
11441 \renewcommand\maketitle{\par
11442 \begingroup
11443 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11444 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11445 \long\def\@makefntext##1{\parindent 1em\noindent
11446 \hb@xt@1.8em{%
11447 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11448 \if@twocolumn
11449 \ifnum \col@number=\@one
11450 \@maketitle
11451 \else
11452 \twocolumn[\@maketitle]%
11453 \fi
11454 \else
11455 \newpage
11456 \global\@topnum\z@ % Prevents figures from going at top of page.
11457 \@maketitle
11458 \fi
11459 \thispagestyle{plain}\@thanks
11460 \endgroup
11461 \setcounter{footnote}{0}%
11462 \global\let\thanks\relax
11463 \global\let\maketitle\relax
11464 \global\let\@maketitle\relax
11465 \global\let\@thanks\@empty
11466 \global\let\@author\@empty
11467 \global\let\@date\@empty
11468 \global\let\@title\@empty
11469 \global\let\title\relax
11470 \global\let\author\relax
11471 \global\let\date\relax

```



```

11472 \global\let\and\relax
11473 }
11474 \def\@maketitle{%
11475   \newpage
11476   \null
11477   \vskip 2em%
11478   \begin{center}%
11479     \let \footnote \thanks
11480     {\LARGE \@title \par}%
11481     \vskip 1.5em%
11482     {\large
11483       \lineskip .5em%
11484       \begin{tabular}[t]{c}%
11485         \@author
11486         \end{tabular}\par}%
11487     \vskip 1em%
11488     {\large \@date}%
11489   \end{center}%
11490   \par
11491   \vskip 1.5em}
11492 \fi
11493 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@section}
11494 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
11495 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
11496 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}%%

```

## 84 File extbook-xetex-bidi.def

```

11497 \ProvidesFile{extbook-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for extbook class for
11498 \if@titlepage
11499 \renewcommand\maketitle{\begin{titlepage}%
11500 \let\footnotesize\small
11501 \let\right@footnoterule\relax
11502 \let\left@footnoterule\relax
11503 \let\textwidth@footnoterule\relax
11504 \let \footnote \thanks
11505 \let \LTRfootnote \LTRthanks
11506 \let \RTLfootnote \RTLthanks
11507 \null\vfil
11508 \vskip 60\p@
11509 \begin{center}%
11510   {\LARGE \@title \par}%
11511   \vskip 3em%
11512   {\large
11513     \lineskip .75em%
11514     \begin{tabular}[t]{c}%
11515       \@author
11516       \end{tabular}\par}%
11517   \vskip 1.5em%
11518   {\large \@date \par}% % Set date in \large size.
11519 \end{center}\par
11520 \@thanks
11521 \vfil\null
11522 \end{titlepage}%

```



```

11523 \setcounter{footnote}{0}%
11524 \global\let\thanks\relax
11525 \global\let\LTRthanks\relax
11526 \global\let\RTLthanks\relax
11527 \global\let\maketitle\relax
11528 \global\let\@thanks\@empty
11529 \global\let\@author\@empty
11530 \global\let\@date\@empty
11531 \global\let\@title\@empty
11532 \global\let\title\relax
11533 \global\let\author\relax
11534 \global\let\date\relax
11535 \global\let\and\relax
11536 }
11537 \else
11538 \renewcommand\maketitle{\par
11539 \begingroup
11540 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
11541 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
11542 \long\def\@makefntext##1{\parindent 1em\noindent
11543 \hb@xt@1.8em{%
11544 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
11545 \if@twocolumn
11546 \ifnum \col@number=\@ne
11547 \@maketitle
11548 \else
11549 \twocolumn[\@maketitle]%
11550 \fi
11551 \else
11552 \newpage
11553 \global\@topnum\z@ % Prevents figures from going at top of page.
11554 \@maketitle
11555 \fi
11556 \thispagestyle{plain}\@thanks
11557 \endgroup
11558 \setcounter{footnote}{0}%
11559 \global\let\thanks\relax
11560 \global\let\LTRthanks\relax
11561 \global\let\RTLthanks\relax
11562 \global\let\maketitle\relax
11563 \global\let\@maketitle\relax
11564 \global\let\@thanks\@empty
11565 \global\let\@author\@empty
11566 \global\let\@date\@empty
11567 \global\let\@title\@empty
11568 \global\let\title\relax
11569 \global\let\author\relax
11570 \global\let\date\relax
11571 \global\let\and\relax
11572 }
11573 \def\@maketitle{%
11574 \newpage
11575 \null
11576 \vskip 2em%

```





```

11577 \begin{center}%
11578 \let \footnote \thanks
11579 \let \LTRfootnote \LTRthanks
11580 \let \RTLfootnote \RTLthanks
11581 {\LARGE \@title \par}%
11582 \vskip 1.5em%
11583 {\large
11584 \lineskip .5em%
11585 \begin{tabular}[t]{c}%
11586 \@author
11587 \end{tabular}\par}%
11588 \vskip 1em%
11589 {\large \@date}%
11590 \end{center}%
11591 \par
11592 \vskip 1.5em}
11593 \fi
11594 \renewcommand*\l@part[2]{%
11595 \ifnum \c@tocdepth >-2\relax
11596 \addpenalty{-\@highpenalty}%
11597 \addvspace{2.25em \@plus\p@}%
11598 \begingroup
11599 \parindent \z@ \ifRTL\leftskip\else\rightskip\fi \@pnumwidth
11600 \parfillskip -\@pnumwidth
11601 {\leavevmode
11602 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
11603 \nobreak
11604 \global\@nobreaktrue
11605 \everypar{\global\@nobreakfalse\everypar{}}%
11606 \endgroup
11607 \fi}
11608 \renewcommand\theequation
11609 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
11610 \renewcommand \thefigure
11611 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
11612 \renewcommand \thetable
11613 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
11614 \renewcommand \thechapter {\@arabic\c@chapter}
11615 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
11616 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
11617 \renewcommand \thesubsubsection {\thesubsection \@SepMark\@arabic\c@subsubsection}
11618 \renewcommand \theparagraph {\thesubsubsection \@SepMark\@arabic\c@paragraph}
11619 \renewcommand \thesubparagraph {\theparagraph \@SepMark\@arabic\c@subparagraph}
11620 \def\@makechapterhead#1{%
11621 \vspace*{50\p@}%
11622 {\parindent \z@ \ifRTL\raggedleft\else\raggedright\fi \normalfont
11623 \ifnum \c@secnumdepth >\m@ne
11624 \if@mainmatter
11625 \huge\bfseries \@chapapp\space \thechapter
11626 \par\nobreak
11627 \vskip 20\p@
11628 \fi
11629 \fi
11630 \interlinepenalty\@M

```



```

11631 \Huge \bfseries #1\par\nobreak
11632 \vskip 40\p@
11633 }}
11634
11635 \def\@makeschapterhead#1{%
11636 \vspace*{50\p@}%
11637 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
11638 \normalfont
11639 \interlinepenalty\@M
11640 \Huge \bfseries #1\par\nobreak
11641 \vskip 40\p@
11642 }}
11643 \renewcommand\backmatter{%
11644 \if@openright
11645 \cleardoublepage
11646 \else
11647 \clearpage
11648 \fi
11649 \@mainmatterfalse}
11650 \renewenvironment{thebibliography}[1]
11651 {\chapter*{\bibname
11652 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
11653 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
11654 \bidi@thebibliography@font@hook%
11655 \list{\@biblabel{\@arabic\c@enumiv}}%
11656 {\settowidth\labelwidth{\@biblabel{#1}}%
11657 \leftmargin\labelwidth
11658 \advance\leftmargin\labelsep
11659 \@openbib@code
11660 \usecounter{enumiv}%
11661 \let\p@enumiv\@empty
11662 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
11663 \sloppy
11664 \clubpenalty4000
11665 \@clubpenalty \clubpenalty
11666 \widowpenalty4000%
11667 \sfcode\.\@m}
11668 {\def\@noitemerr
11669 {\@latex@warning{Empty `thebibliography' environment}}}%
11670 \endlist}

```

## 85 File extletter-xetex-bidi.def

```

11671 \ProvidesFile{extletter-xetex-bidi.def}[2015/11/14 v0.2 bidi adaptations for extletter class]
11672 \renewcommand*\opening[1]{\ifx\@empty\fromaddress
11673 \thispagestyle{firstpage}%
11674 {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
11675 \else % home address
11676 \thispagestyle{empty}%
11677 {\if@RTL\raggedright\begin{tabular}{r@{}}\else\raggedleft\begin{tabular}{l@{}}\fi\ignore
11678 \fromaddress \[*[2\parskip]%
11679 \@date \end{tabular}\par}%
11680 \fi
11681 \vspace{2\parskip}%

```



```

11682 {\if@RTL\raggedleft\else\raggedright\fi \toname \ \ \toaddress \par}%
11683 \vspace{2\parskip}%
11684 #1\par\nobreak}
11685 \renewcommand{\closing}[1]{\par\nobreak\vspace{\parskip}%
11686 \stopbreaks
11687 \noindent
11688 \ifx\@empty\fromaddress\else
11689 \hspace*{\longindentation}\fi
11690 \parbox{\indentedwidth}{\if@RTL\raggedleft\else\raggedright\fi
11691 \ignorespaces #1\ [6\medskipamount]}
11692 \ifx\@empty\fromsig
11693 \fromname
11694 \else \fromsig \fi\strut}%
11695 \par}
11696 \renewcommand\left@footnoterule{%
11697 \kern-\p@
11698 \hrule \@width .4\columnwidth
11699 \kern .6\p@}
11700 \renewcommand\right@footnoterule{%
11701 \kern-\p@
11702 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
11703 \kern .6\p@}

```

## 86 File extrafootnotefeatures-xetex-bidi.def

```

11704 \ProvidesFile{extrafootnotefeatures-xetex-bidi.def}[2025/01/03 v2.7 bidi extra footnote feat
11705 \newdimen\bidi@columnwidth
11706 \def\bidi@floathook{%
11707 \bidi@columnwidth\columnwidth
11708 }
11709 \newcommand*{\@bidi@before@Hy@hyperfootnotes}{%
11710 \if@bidi@csundef{ifHy@hyperfootnotes}{}{%
11711 \if@bidi@csundef{HLTR@@LTRfootnotetext}{}{%
11712 \ifHy@hyperfootnotes
11713 \let\@H@@footnotetext\@footnotetext
11714 \let\@HLTR@@LTRfootnotetext\@LTRfootnotetext
11715 \let\@HRTL@@RTLfootnotetext\@RTLfootnotetext
11716 \let\@H@@mpfootnotetext\@mpfootnotetext
11717 \let\@HLTR@@mpLTRfootnotetext\@mpLTRfootnotetext
11718 \let\@HRTL@@mpRTLfootnotetext\@mpRTLfootnotetext
11719 \fi
11720 }%
11721 }%
11722 }
11723 \newcommand*{\@bidi@after@Hy@hyperfootnotes}{%
11724 \if@bidi@csundef{ifHy@hyperfootnotes}{}{%
11725 \if@bidi@csundef{HLTR@@LTRfootnotetext}{}{%
11726 \ifHy@hyperfootnotes
11727 \let\@H@@footnotetext\@footnotetext
11728 \let\@footnotetext\@H@@footnotetext
11729 \let\@HLTR@@LTRfootnotetext\@LTRfootnotetext
11730 \let\@LTRfootnotetext\@HLTR@@LTRfootnotetext
11731 \let\@HRTL@@RTLfootnotetext\@RTLfootnotetext
11732 \let\@RTLfootnotetext\@HRTL@@RTLfootnotetext

```



```

11733 \let\H@mpfootnotetext\@mpfootnotetext
11734 \let\@mpfootnotetext\@H@mpfootnotetext
11735 \let\HLTR@mpLTrfootnotetext\@mpLTrfootnotetext
11736 \let\@mpLTrfootnotetext\@HLTR@mpLTrfootnotetext
11737 \let\HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
11738 \let\@mpRTLfootnotetext\@HRTL@mpRTLfootnotetext
11739 \fi
11740 }%
11741 }%
11742 }
11743 \let\autofootnoterule\relax
11744 \let\rightfootnoterule\relax
11745 \let\leftfootnoterule\relax
11746 \let\textwidthfootnoterule\relax
11747 \let\LRfootnoterule\relax
11748 \def\footnoterule{\kern-3\p@
11749 \hrule \@width \columnwidth \kern 2.6\p@}
11750 \newcommand{\@preamnormalfmt}{%
11751 \parindent 1em%
11752 \noindent
11753 }
11754 \newcommand{\@normalfootfmt}[1]{%
11755 \@preamnormalfmt
11756 \footfootmark
11757 \rule{z@}{\footnotesep}\ignorespaces{\foottextfont #1}%
11758 \@finalstrut\strutbox
11759 }
11760 \newcommand{\@normalRTLfootfmt}[1]{%
11761 \@preamnormalfmt
11762 \RTLfootfootmark
11763 \rule{z@}{\footnotesep}\ignorespaces{\RTLfoottextfont #1}%
11764 \@finalstrut\strutbox
11765 }
11766 \newcommand{\@normalLTRfootfmt}[1]{%
11767 \@preamnormalfmt
11768 \LTRfootfootmark
11769 \rule{z@}{\footnotesep}\ignorespaces{\LTRfoottextfont #1}%
11770 \@finalstrut\strutbox
11771 }
11772 \renewcommand{\@footnotetext}[1]{%
11773 \insert\footins{%
11774 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11775 \def\baselinestretch{\m@m@footnote@spacing}%
11776 \reset@font
11777 \foottextfont
11778 \@preamfntext
11779 \hsize\columnwidth
11780 \protected@edef\@currentlabel{%
11781 \csname p@footnote\endcsname\@thefnmark}%
11782 \color@begingroup
11783 \@normalfootfmt{#1}%
11784 \color@endgroup}%
11785 \m@m@mmf@prepare}
11786 \newcommand{\bidi@bidiold@footnotetext}[1]{%

```



```

11787 \bidi@step@absolutefootnote@count
11788 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11789 \insert\footins{%
11790 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11791 \def\baselinestretch{\m@m@footnote@spacing}%
11792 \reset@font
11793 \foottextfont
11794 \@preamfntext
11795 \hsize\columnwidth
11796 \protected@edef\@currentlabel{%
11797 \csname p@footnote\endcsname\@thefnmark}%
11798 \color@begingroup
11799 \@normalfootfmt{#1}%
11800 \color@endgroup}%
11801 \m@mmf@prepare
11802 }
11803 \renewcommand{\@RTLfootnotetext}[1]{%
11804 \insert\footins{%
11805 \@RTLtrue%
11806 \def\baselinestretch{\m@m@footnote@spacing}%
11807 \reset@font
11808 \RTLfoottextfont
11809 \@preamfntext
11810 \hsize\columnwidth
11811 \protected@edef\@currentlabel{%
11812 \csname p@footnote\endcsname\@thefnmark}%
11813 \color@begingroup
11814 \@normalRTLfootfmt{#1}%
11815 \color@endgroup}%
11816 \m@mmf@prepare}
11817 \newcommand{\bidi@bidiold@RTLfootnotetext}[1]{%
11818 \bidi@step@absolutefootnote@count
11819 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11820 \insert\footins{%
11821 \@RTLtrue%
11822 \def\baselinestretch{\m@m@footnote@spacing}%
11823 \reset@font
11824 \RTLfoottextfont
11825 \@preamfntext
11826 \hsize\columnwidth
11827 \protected@edef\@currentlabel{%
11828 \csname p@footnote\endcsname\@thefnmark}%
11829 \color@begingroup
11830 \@normalRTLfootfmt{#1}%
11831 \color@endgroup}%
11832 \m@mmf@prepare
11833 }
11834 \renewcommand{\@LTRfootnotetext}[1]{%
11835 \insert\footins{%
11836 \@RTLfalse%
11837 \def\baselinestretch{\m@m@footnote@spacing}%
11838 \reset@font
11839 \LTRfoottextfont
11840 \@preamfntext

```



```

11841 \hsize\columnwidth
11842 \protected@edef\@currentlabel{%
11843 \csname p@footnote\endcsname\@thefnmark}%
11844 \color@begingroup
11845 \@normalLTRfootfmt{#1}%
11846 \color@endgroup}%
11847 \m@mmf@prepare}
11848 \renewcommand{\@mpfootnotetext}[1]{%
11849 \global\setbox\@mpfootins\vbox{%
11850 \unvbox\@mpfootins
11851 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
11852 \def\baselinestretch{\m@m@footnote@spacing}%
11853 \reset@font%
11854 \foottextfont \hsize\columnwidth \@parboxrestore
11855 \protected@edef\@currentlabel{%
11856 \csname p@mpfootnote\endcsname\@thefnmark}%
11857 \color@begingroup
11858 \@normalfootfmt{#1}%
11859 \color@endgroup}}
11860 \newcommand{\@bidi@bidiold@mpfootnotetext}[1]{%
11861 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
11862 \global\setbox\@mpfootins\vbox{%
11863 \unvbox\@mpfootins
11864 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
11865 \def\baselinestretch{\m@m@footnote@spacing}%
11866 \reset@font%
11867 \foottextfont \hsize\columnwidth \@parboxrestore
11868 \protected@edef\@currentlabel{%
11869 \csname p@mpfootnote\endcsname\@thefnmark}%
11870 \color@begingroup
11871 \@normalfootfmt{#1}%
11872 \color@endgroup}}
11873 \renewcommand{\@mpLTRfootnotetext}[1]{%
11874 \global\setbox\@mpfootins\vbox{%
11875 \unvbox\@mpfootins
11876 \@RTLfalse
11877 \def\baselinestretch{\m@m@footnote@spacing}%
11878 \reset@font%
11879 \LTRfoottextfont \hsize\columnwidth \@parboxrestore
11880 \protected@edef\@currentlabel{%
11881 \csname p@mpfootnote\endcsname\@thefnmark}%
11882 \color@begingroup
11883 \@normalLTRfootfmt{#1}%
11884 \color@endgroup}}
11885 \renewcommand{\@mpRTLfootnotetext}[1]{%
11886 \global\setbox\@mpfootins\vbox{%
11887 \unvbox\@mpfootins
11888 \@RTLtrue
11889 \def\baselinestretch{\m@m@footnote@spacing}%
11890 \reset@font%
11891 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11892 \protected@edef\@currentlabel{%
11893 \csname p@mpfootnote\endcsname\@thefnmark}%
11894 \color@begingroup

```



```

11895 \normalRTLfootfmt{#1}%
11896 \color@endgroup}}
11897 \newcommand{\bidi@bidiold@mpRTLfootnotetext}[1]{%
11898 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
11899 \global\setbox\@mpfootins\vbox{%
11900 \unvbox\@mpfootins
11901 \RTLtrue
11902 \def\baselinestretch{\m@m@footnote@spacing}%
11903 \reset@font%
11904 \RTLfoottextfont \hsize\columnwidth \@parboxrestore
11905 \protected@edef\@currentlabel{%
11906 \csname p@mpfootnote\endcsname\@thefnmark}%
11907 \color@begingroup
11908 \normalRTLfootfmt{#1}%
11909 \color@endgroup}}
11910 \let\m@mold@footnotetext\@footnotetext
11911 \let\m@mold@LTRfootnotetext\@LTRfootnotetext
11912 \let\m@mold@RTLfootnotetext\@RTLfootnotetext
11913 \let\m@mold@mpfootnotetext\@mpfootnotetext
11914 \let\m@mold@mpLTRfootnotetext\@mpLTRfootnotetext
11915 \let\m@mold@mpRTLfootnotetext\@mpRTLfootnotetext
11916 \bidi@ensure@newcommand{\normalfootnotes}{%
11917 \@bidi@before@Hy@hyperfootnotes
11918 \let\@footnotetext\m@mold@footnotetext
11919 \let\@LTRfootnotetext\m@mold@LTRfootnotetext
11920 \let\@RTLfootnotetext\m@mold@RTLfootnotetext
11921 \let\@mpfootnotetext\m@mold@mpfootnotetext
11922 \let\@mpLTRfootnotetext\m@mold@mpLTRfootnotetext
11923 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
11924 \@bidi@after@Hy@hyperfootnotes
11925 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
11926 }
11927 \IfClassLoadedT{memoir}{\let\plainfootnotes\normalfootnotes}
11928 \bidi@ensure@newcommand*\setSingleSpace[1]{%
11929 \def\m@m@singlespace{#1}%
11930 \def\m@m@footnote@spacing{#1}%
11931 \def\m@m@float@spacing{#1} %
11932 }
11933 \setSingleSpace{1}
11934 \bidi@ensure@newcommand*\multiplefootnotemarker{3sp}
11935 \bidi@ensure@newcommand*\m@m@mmf@prepare{%
11936 \kern-\multiplefootnotemarker
11937 \kern\multiplefootnotemarker\relax}
11938 \bidi@ensure@newlength\footmarkwidth
11939 \bidi@ensure@newcommand*\footmarkstyle[1]{\def\footscript##1{#1}}
11940 \bidi@ensure@newcommand*\LTRfootmarkstyle[1]{\def\LTRfootscript##1{#1}}
11941 \bidi@ensure@newcommand*\RTLfootmarkstyle[1]{\def\RTLfootscript##1{#1}}
11942 \bidi@ensure@newcommand\footfootmark{%
11943 \ifdim\footmarkwidth < \z@
11944 \llap{\hb@xt@ -\footmarkwidth{%
11945 \hss\normalfont\footscript{\@thefnmark}}%
11946 \hspace*{-\footmarkwidth}}}%
11947 \else
11948 \ifdim\footmarkwidth = \z@

```



```

11949      {\normalfont\footscript{\@thefnmark}}%
11950      \else
11951        \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\@thefnmark}}%
11952        \fi
11953      \fi}
11954 \bidi@ensure@newcommand{\LTRfootfootmark}{%
11955   \ifdim\footmarkwidth < \z@
11956     \llap{\hb@xt@ -\footmarkwidth{%
11957       \hss\normalfont\LTRfootscript{\@thefnmark}}%
11958       \hspace*{-\footmarkwidth}}%
11959   \else
11960     \ifdim\footmarkwidth = \z@
11961       {\normalfont\LTRfootscript{\@thefnmark}}%
11962     \else
11963       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\@thefnmark}}%
11964       \fi
11965     \fi}
11966 \bidi@ensure@newcommand{\RTLfootfootmark}{%
11967   \ifdim\footmarkwidth < \z@
11968     \llap{\hb@xt@ -\footmarkwidth{%
11969       \hss\normalfont\RTLfootscript{\@thefnmark}}%
11970       \hspace*{-\footmarkwidth}}%
11971   \else
11972     \ifdim\footmarkwidth = \z@
11973       {\normalfont\RTLfootscript{\@thefnmark}}%
11974     \else
11975       \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\@thefnmark}}%
11976       \fi
11977     \fi}
11978 \footmarkstyle{\textsuperscript{#1}}
11979 \LTRfootmarkstyle{\textsuperscript{#1}}
11980 \RTLfootmarkstyle{\textsuperscript{#1}}
11981 \newcommand*{\bidi@normal@footmarkwidth}{%
11982   \setlength{\footmarkwidth}{1em plus.3em minus.3em}%
11983 }
11984 \newcommand*{\bidi@star@footmarkwidth}{%
11985   \setlength{\footmarkwidth}{0em plus.3em minus.3em}%
11986 }
11987 \bidi@normal@footmarkwidth
11988 \bidi@ensure@newcommand{\m@mdoextrafeet}{\extrafeetins}
11989 \bidi@ensure@newcommand*{\extrafeetins}{%
11990   \bidi@joinfootnotes\footinsv@r\@footstartv@r\@footgroupv@r
11991   \bidi@joinfootnotes\footinsv@l\@footstartv@l\@LTRfootgroupv@l
11992   \bidi@joinfootnotes\@bidi@copyins@{\@unvbox\@bidi@copyins@}%
11993   \extrafeetinshook}
11994 \bidi@ensure@newcommand{\extrafeetinshook}{%
11995   \bidi@ensure@newcommand{\foottextfont}{\footnotesize}
11996   \bidi@ensure@newcommand{\LTRfoottextfont}{\footnotesize}
11997   \bidi@ensure@newcommand{\RTLfoottextfont}{\footnotesize}
11998   \bidi@ensure@newlength{\footinsdim}
11999   \setlength{\footinsdim}{8in} % standard for \dimen\footins
12000   \bidi@ensure@newcommand{\@preamfntext}{%
12001     \interlinepenalty\interfootnotelinepenalty
12002     \floatingpenalty \@MM

```





```

12003 \splittopskip=\footnotesep
12004 \splitmaxdepth=\dp\strutbox
12005 \@parboxrestore}
12006 \def\bid@ifmulticol#1#2{\@tempswafalse
12007 \ifnum\col@number>\@ne
12008 \ifnum\count\footins>1999 \@tempwattrue \fi
12009 \fi
12010 \if@tempswa #1\else #2\fi
12011 }
12012 \def\bid@joinfootnotes#1#2#3{%
12013 \ifvoid#1
12014 \else
12015 \@tempskipa\skip#1%
12016 \bid@ifmulticol{\divide\@tempskipa\col@number}{}%
12017 \edef\bid@footskip{\vskip\the\@tempskipa\relax}%
12018 \bid@removexfootskip
12019 \ifvoid\footins
12020 \global\setbox\footins\vbox{#2#3}%
12021 \else
12022 \global\setbox\footins\vbox{%
12023 \unvbox\footins
12024 \bid@footskip
12025 #2#3%
12026 }%
12027 \fi
12028 \fi
12029 }
12030 \def\bid@reinsertfootnote#1#2#3{%
12031 \ifvoid#1%
12032 \else
12033 \insert\footins{#2#3}%
12034 \fi
12035 }
12036 \def\bid@joinmpfootnotes#1#2#3{%
12037 \ifvoid#1
12038 \else
12039 \@tempskipa\skip#1%
12040 \bid@ifmulticol{\divide\@tempskipa\col@number}{}%
12041 \edef\bid@footskip{\vskip\the\@tempskipa\relax}%
12042 \bid@removexfootskip
12043 \ifvoid\@mpfootins
12044 \global\setbox\@mpfootins\vbox{#2#3}%
12045 \else
12046 \global\setbox\@mpfootins\vbox{%
12047 \unvbox\@mpfootins
12048 \bid@footskip
12049 #2#3%
12050 }%
12051 \fi
12052 \fi
12053 }
12054 \newcount\bid@absolutepage@count
12055 \bid@absolutepage@count\@ne
12056 \newcount\bid@absolutefootnote@count

```



```

12057 \bidi@AfterOutputBoxOutputPage{%
12058   \if@filesw
12059     \edef\@tempa{%
12060       \write\@auxout{%
12061         \string\bidi@finalfootnoteperpage%
12062         {\noexpand\number\noexpand\bidi@absolutepage@count}%
12063         {\noexpand\number\noexpand\bidi@absolutefootnote@count}%
12064       }%
12065     }%
12066     \@tempa
12067   \fi
12068 }
12069 \bidi@AtEndOutputPage{%
12070   \global\advance\bidi@absolutepage@count\@ne
12071 }
12072 \newcommand*\bidi@finalfootnoteperpage}[2]{%
12073   \expandafter\gdef\csname bidi@currentpagefinalfootnote@@#1\endcsname{#2}%
12074 }
12075 \newif\if@bidi@finalfootnoteperpage
12076 \newcommand\bidi@ifafterfinalfootnoteperpage}[2]{%
12077   \if@bidi@csundef\bidi@currentpagefinalfootnote@@\number\bidi@absolutepage@count}{%
12078     \global\@bidi@finalfootnoteperpagetrue
12079   }{%
12080     \global\@bidi@finalfootnoteperpagefalse
12081     \ifnum\bidi@absolutefootnote@count=\bidi@csuse\bidi@currentpagefinalfootnote@@\number\bidi@absolutepage@count
12082       #1%
12083     \else
12084       #2%
12085     \fi
12086   }%
12087 }
12088 \newcommand\bidi@reinsertfinalfootnoteperpage}[3]{%
12089   \bidi@ifafterfinalfootnoteperpage{%
12090     \bidi@reinsertfootnote{#1}{#2}{#3}%
12091   }{%
12092   }%
12093 }
12094 \newcommand*\bidi@step@absolutefootnote@count}{%
12095   \global\advance\bidi@absolutefootnote@count\@ne
12096 }
12097 \bidi@AfterEndDocumentCheckLabelsRerun{%
12098   \if@bidi@finalfootnoteperpage
12099     \PackageWarningNoLine{bidi}{%
12100       The absolute final footnote is not
12101       known on every page of your
12102       document. Rerun TeX to get the
12103       absolute final footnote on every page
12104       of your document%
12105     }%
12106   \fi
12107 }
12108 \bidi@ensure@newcommand{\m@mdoextrafeetmini}{%
12109   \extrafeetminihook}
12110 \bidi@ensure@newcommand{\extrafeetendmini}{%

```



```

12111 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12112 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTrfootgroupv@l
12113 \extrafeetendminihook}
12114 \bidi@ensure@newcommand{\extrafeetendminihook}{%}
12115 \bidi@ensure@newcommand{\m@mdoextrafeetendmini}{\extrafeetendmini}
12116 \def\endminipage{%
12117 \par
12118 \unskip
12119 \m@mdoextrafeetendmini
12120 \ifvoid\@mpfootins
12121 \else
12122 \vskip\skip\@mpfootins
12123 \normalcolor
12124 \footnoterule
12125 \unvbox\@mpfootins
12126 \fi
12127 \@minipagefalse
12128 \color@endgroup
12129 \egroup
12130 \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
12131 \bidi@ensure@newcommand{\m@make@footstart}[1]{%
12132 \@namedef{\footstart#1}{%
12133 \leftskip=\z@
12134 \rightskip=\z@
12135 \parindent=\z@
12136 }%
12137 }
12138 \newinsert\footinsv@r
12139 \skip\footinsv@r\skip\footins
12140 \count\footinsv@r=1000 % no magnification
12141 \dimen\footinsv@r=\footinsdim
12142 \m@make@footstart{v@r}
12143 \newinsert\footinsv@l
12144 \skip\footinsv@l\skip\footins
12145 \count\footinsv@l=1000 % no magnification
12146 \dimen\footinsv@l=\footinsdim
12147 \m@make@footstart{v@l}
12148 \bidi@ensure@newcommand{\@footgroupv@r}{%}
12149 \newinsert\@mpfootinsv@r
12150 \skip\@mpfootinsv@r\skip\@mpfootins
12151 \newinsert\@mpfootinsv@l
12152 \skip\@mpfootinsv@l\skip\@mpfootins
12153 \bidi@ensure@newcommand{\mp@footgroupv@r}{%}
12154 \newcount\m@m@k \newdimen\m@m@h
12155 \bidi@ensure@newcommand*{\m@mrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12156 \@@line{\beginR\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12157 \valign{##\vfill\cr\m@mdosplits}\endR}}
12158 \newcommand*{\bidi@LTrigidbalance}[3]{\setbox0=\box#1 \m@m@k=#2 \m@m@h=#3
12159 \@@line{\beginL\splittopskip=\m@m@h \vbadness=\@M \hfilneg
12160 \valign{##\vfill\cr\m@mdosplits}\endL}}
12161 \bidi@ensure@newcommand*{\m@mdosplits}{\ifnum\m@m@k>0 \noalign{\hfil}\m@msplitoff
12162 \global\advance\m@m@k-1\cr\m@mdosplits\fi}
12163 \bidi@ensure@newcommand*{\m@msplitoff}{\dimen0=\ht0
12164 \divide\dimen0 by\m@m@k \advance\dimen0 by\m@m@h

```



```

12165 \setbox2 \vsplit0 to \dimen0
12166 \unvbox2 }
12167 \bidi@ensure@newcommand{\twocolumnfootnotes}{%
12168 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12169 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12170 \@bidi@before@Hy@hyperfootnotes
12171 \let\@footnotetext\@twocolfootnotetext
12172 \let\@LTRfootnotetext\@twocolLTRfootnotetext
12173 \let\@RTLfootnotetext\@twocolRTLfootnotetext
12174 \dimen\footinsv@r=2\footinsdim
12175 \count\footinsv@r=500\relax
12176 \m@make@twocol@footgroup{v@r}%
12177 \let\@footgroupv@r\@twocol@footgroupv@r
12178 \dimen\footinsv@l=2\footinsdim
12179 \count\footinsv@l=500\relax
12180 \bidi@make@twocol@LTRfootgroup{v@l}%
12181 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12182 \let\@mpfootnotetext\@mptwocolfootnotetext
12183 \let\@mpLTRfootnotetext\@mptwocolLTRfootnotetext
12184 \let\@mpRTLfootnotetext\@mptwocolRTLfootnotetext
12185 \@bidi@after@Hy@hyperfootnotes
12186 \m@make@mptwocol@footgroup{v@r}%
12187 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12188 \bidi@make@mptwocol@LTRfootgroup{v@l}%
12189 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l
12190 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12191 }
12192 \newcommand{\TwoColumnFootnotes}{%
12193 \@namedef{foottextfontv@r}{\foottextfont}%
12194 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12195 \@bidi@before@Hy@hyperfootnotes
12196 \let\@footnotetext\@TwoColfootnotetext
12197 \let\@LTRfootnotetext\@TwoColLTRfootnotetext
12198 \let\@RTLfootnotetext\@TwoColRTLfootnotetext
12199 \dimen\footinsv@r=2\footinsdim
12200 \count\footinsv@r=500\relax
12201 \m@make@twocol@footgroup{v@r}%
12202 \let\@footgroupv@r\@twocol@footgroupv@r
12203 \dimen\footinsv@l=2\footinsdim
12204 \count\footinsv@l=500\relax
12205 \bidi@make@twocol@LTRfootgroup{v@l}%
12206 \let\@LTRfootgroupv@l\@twocol@LTRfootgroupv@l
12207 \let\@mpfootnotetext\@mpTwoColfootnotetext
12208 \let\@mpLTRfootnotetext\@mpTwoColLTRfootnotetext
12209 \let\@mpRTLfootnotetext\@mpTwoColRTLfootnotetext
12210 \@bidi@after@Hy@hyperfootnotes
12211 \m@make@mptwocol@footgroup{v@r}%
12212 \let\mp@footgroupv@r\@mptwocol@footgroupv@r
12213 \bidi@make@mptwocol@LTRfootgroup{v@l}%
12214 \let\mp@LTRfootgroupv@l\@mptwocol@LTRfootgroupv@l
12215 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12216 }
12217 \bidi@ensure@newcommand{\@twocolfootnotetext}[1]{\insert
12218 \if@RTL@footnote

```



```

12219 \footinsv@r
12220 \else
12221 \footinsv@l
12222 \fi
12223 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12224 \def\baselinestretch{\m@m@footnote@spacing}%
12225 \reset@font\foottextfont
12226 \@preamfntext
12227 \protected@edef\@currentlabel{%
12228 \csname p@footnote\endcsname\@thefnmark}%
12229 \color@begingroup
12230 \@twocolfootfmt{#1}%
12231 \color@endgroup}%
12232 \m@mmf@prepare}
12233 \newcommand{\@TwoColfootnotetext}[1]{%
12234 \bidi@step@absolute@footnote@count
12235 \if@RTL@footnote
12236 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12237 \else
12238 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12239 \fi
12240 \global\setbox
12241 \if@RTL@footnote
12242 \footinsv@r
12243 \else
12244 \footinsv@l
12245 \fi
12246 \vbox{%
12247 \unvbox
12248 \if@RTL@footnote
12249 \footinsv@r
12250 \else
12251 \footinsv@l
12252 \fi
12253 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12254 \def\baselinestretch{\m@m@footnote@spacing}%
12255 \reset@font\foottextfont
12256 \@preamfntext
12257 \protected@edef\@currentlabel{%
12258 \csname p@footnote\endcsname\@thefnmark}%
12259 \color@begingroup
12260 \@twocolfootfmt{#1}%
12261 \color@endgroup}%
12262 \m@mmf@prepare
12263 \if@RTL@footnote
12264 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12265 \else
12266 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12267 \fi
12268 }
12269 \bidi@ensure@newcommand{\@twocolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12270 \def\baselinestretch{\m@m@footnote@spacing}%
12271 \reset@font\LTRfoottextfont
12272 \@preamfntext

```



```

12273 \protected@edef\@currentlabel{%
12274   \csname p@footnote\endcsname\@thefnmark}%
12275 \color@begingroup
12276   \@twocolLTRfootfmt{#1}%
12277 \color@endgroup}%
12278 \m@mmf@prepare}
12279 \newcommand{\@TwoColLTRfootnotetext}[1]{%
12280   \bidi@step@absolutefootnote@count
12281 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12282 \global\setbox\footinsv@l\vbox{%
12283   \unvbox\footinsv@l
12284   \@RTLfalse
12285   \def\baselinestretch{\m@mm@footnote@spacing}%
12286   \reset@font\LTRfoottextfont
12287   \@preamfntext
12288   \protected@edef\@currentlabel{%
12289     \csname p@footnote\endcsname\@thefnmark}%
12290   \color@begingroup
12291     \@twocolLTRfootfmt{#1}%
12292   \color@endgroup}%
12293   \m@mmf@prepare
12294   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12295 }
12296 \bidi@ensure@newcommand{\@twocolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12297   \def\baselinestretch{\m@mm@footnote@spacing}%
12298   \reset@font\RTLfoottextfont
12299   \@preamfntext
12300   \protected@edef\@currentlabel{%
12301     \csname p@footnote\endcsname\@thefnmark}%
12302   \color@begingroup
12303     \@twocolRTLfootfmt{#1}%
12304   \color@endgroup}%
12305   \m@mmf@prepare}
12306 \newcommand{\@TwoColRTLfootnotetext}[1]{%
12307   \bidi@step@absolutefootnote@count
12308 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12309 \global\setbox\footinsv@r\vbox{%
12310   \unvbox\footinsv@r
12311   \@RTLtrue
12312   \def\baselinestretch{\m@mm@footnote@spacing}%
12313   \reset@font\RTLfoottextfont
12314   \@preamfntext
12315   \protected@edef\@currentlabel{%
12316     \csname p@footnote\endcsname\@thefnmark}%
12317   \color@begingroup
12318     \@twocolRTLfootfmt{#1}%
12319   \color@endgroup}%
12320   \m@mmf@prepare
12321   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12322 }
12323 \bidi@ensure@newcommand{\@preamtwofmt}{%
12324   \hsize .45\hsize
12325   \parindent=\z@
12326   \tolerance=5000\relax

```



```

12327 \leavevmode}
12328 \bidi@ensure@newcommand{\@twocolfootfmt}[1]{%
12329 \@preamtwofmt
12330 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12331 \bidi@ensure@newcommand{\@twocolLTRfootfmt}[1]{%
12332 \@preamtwofmt
12333 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12334 \bidi@ensure@newcommand{\@twocolRTLfootfmt}[1]{%
12335 \@preamtwofmt
12336 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12337 \bidi@ensure@newcommand{\@mptwocolfootnotetext}[1]{%
12338 \global\setbox
12339 \if@RTL@footnote
12340 \@mpfootinsv@r
12341 \else
12342 \@mpfootinsv@l
12343 \fi
12344 \vbox{%
12345 \unvbox
12346 \if@RTL@footnote
12347 \@mpfootinsv@r
12348 \else
12349 \@mpfootinsv@l
12350 \fi
12351 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12352 \def\baselinestretch{\m@m@footnote@spacing}%
12353 \reset@font\foottextfont
12354 \hsize\columnwidth \@parboxrestore
12355 \protected@edef\@currentlabel{%
12356 \csname p@mpfootnote\endcsname\@thefnmark}%
12357 \color@begingroup
12358 \@twocolfootfmt{#1}%
12359 \color@endgroup}%
12360 \m@m@mmf@prepare}
12361 \newcommand{\@mpTwoColfootnotetext}[1]{%
12362 \if@RTL@footnote
12363 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12364 \else
12365 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12366 \fi
12367 \global\setbox
12368 \if@RTL@footnote
12369 \@mpfootinsv@r
12370 \else
12371 \@mpfootinsv@l
12372 \fi
12373 \vbox{%
12374 \unvbox
12375 \if@RTL@footnote
12376 \@mpfootinsv@r
12377 \else
12378 \@mpfootinsv@l
12379 \fi
12380 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi

```



```

12381 \def\baselinestretch{\m@m@footnote@spacing}%
12382 \reset@font\foottextfont
12383 \hsize\columnwidth \@parboxrestore
12384 \protected@edef\@currentlabel{%
12385 \csname p@mpfootnote\endcsname\@thefnmark}%
12386 \color@begingroup
12387 \@twocolfootfmt{#1}%
12388 \color@endgroup}%
12389 \m@m@mmf@prepare}
12390 \bidi@ensure@newcommand{\@mptwocolLTRfootnotetext}[1]{%
12391 \global\setbox\@mpfootinsv@l\vbox{%
12392 \unvbox\@mpfootinsv@l
12393 \@RTLfalse
12394 \def\baselinestretch{\m@m@footnote@spacing}%
12395 \reset@font\LTRfoottextfont
12396 \hsize\columnwidth \@parboxrestore
12397 \protected@edef\@currentlabel{%
12398 \csname p@mpfootnote\endcsname\@thefnmark}%
12399 \color@begingroup
12400 \@twocolLTRfootfmt{#1}%
12401 \color@endgroup}%
12402 \m@m@mmf@prepare}
12403 \newcommand{\@mpTwoCollTRfootnotetext}[1]{%
12404 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12405 \global\setbox\@mpfootinsv@l\vbox{%
12406 \unvbox\@mpfootinsv@l
12407 \@RTLfalse
12408 \def\baselinestretch{\m@m@footnote@spacing}%
12409 \reset@font\LTRfoottextfont
12410 \hsize\columnwidth \@parboxrestore
12411 \protected@edef\@currentlabel{%
12412 \csname p@mpfootnote\endcsname\@thefnmark}%
12413 \color@begingroup
12414 \@twocolLTRfootfmt{#1}%
12415 \color@endgroup}%
12416 \m@m@mmf@prepare}
12417 \bidi@ensure@newcommand{\@mptwocolRTLfootnotetext}[1]{%
12418 \global\setbox\@mpfootinsv@r\vbox{%
12419 \unvbox\@mpfootinsv@r
12420 \@RTLtrue
12421 \def\baselinestretch{\m@m@footnote@spacing}%
12422 \reset@font\RTLfoottextfont
12423 \hsize\columnwidth \@parboxrestore
12424 \protected@edef\@currentlabel{%
12425 \csname p@mpfootnote\endcsname\@thefnmark}%
12426 \color@begingroup
12427 \@twocolRTLfootfmt{#1}%
12428 \color@endgroup}%
12429 \m@m@mmf@prepare}
12430 \newcommand{\@mpTwoColRTLfootnotetext}[1]{%
12431 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12432 \global\setbox\@mpfootinsv@r\vbox{%
12433 \unvbox\@mpfootinsv@r
12434 \@RTLtrue

```





```

12435 \def\baselinestretch{\m@m@footnote@spacing}%
12436 \reset@font\RTLfoottextfont
12437 \hsize\columnwidth \@parboxrestore
12438 \protected@edef\@currentlabel{%
12439 \csname p@mpfootnote\endcsname\@thefnmark}%
12440 \color@begingroup
12441 \@twocolRTLfootfmt{#1}%
12442 \color@endgroup}%
12443 \m@mmf@prepare}
12444 \bidi@ensure@newcommand{\m@make@twocol@footgroup}[1]{%
12445 \@namedef{@twocol@footgroup#1}{%
12446 \def\baselinestretch{\m@m@footnote@spacing}%
12447 \hsize\bidi@columnwidth
12448 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12449 \m@mrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12450 \newcommand{\bidi@make@twocol@LTRfootgroup}[1]{%
12451 \@namedef{@twocol@LTRfootgroup#1}{%
12452 \def\baselinestretch{\m@m@footnote@spacing}%
12453 \hsize\bidi@columnwidth
12454 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12455 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\tw@}{\splittopskip}}}%
12456 \bidi@ensure@newcommand{\m@make@mptwocol@footgroup}[1]{%
12457 \@namedef{@mptwocol@footgroup#1}{%
12458 \def\baselinestretch{\m@m@footnote@spacing}%
12459 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12460 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}%
12461 \newcommand{\bidi@make@mptwocol@LTRfootgroup}[1]{%
12462 \@namedef{@mptwocol@LTRfootgroup#1}{%
12463 \def\baselinestretch{\m@m@footnote@spacing}%
12464 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12465 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{\tw@}{\splittopskip}}}%
12466 \bidi@ensure@newcommand{\threecolumnfootnotes}{%
12467 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12468 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12469 \@bidi@before@Hy@hyperfootnotes
12470 \let\@footnotetext\@threecolfootnotetext
12471 \let\@LTRfootnotetext\@threecolLTRfootnotetext
12472 \let\@RTLfootnotetext\@threecolRTLfootnotetext
12473 \dimen\footinsv@r=3\footinsdim
12474 \count\footinsv@r=333\relax
12475 \m@make@threecol@footgroup{v@r}%
12476 \let\@footgroupv@r\@threecol@footgroupv@r
12477 \dimen\footinsv@l=3\footinsdim
12478 \count\footinsv@l=333\relax
12479 \bidi@make@threecol@LTRfootgroup{v@l}%
12480 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12481 \let\@mpfootnotetext\@mpthreecolfootnotetext
12482 \let\@mpLTRfootnotetext\@mpthreecolLTRfootnotetext
12483 \let\@mpRTLfootnotetext\@mpthreecolRTLfootnotetext
12484 \@bidi@after@Hy@hyperfootnotes
12485 \m@make@mpthreecol@footgroup{v@r}%
12486 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12487 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12488 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l

```



```

12489 \@ifstar\bidistar@footmarkwidth\bidinormal@footmarkwidth
12490 }
12491 \newcommand{\ThreeColumnFootnotes}{%
12492 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12493 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12494 \@bidi@before@Hy@hyperfootnotes
12495 \let\@footnotetext\@ThreeColfootnotetext
12496 \let\@LTRfootnotetext\@ThreeColLTRfootnotetext
12497 \let\@RTLfootnotetext\@ThreeColRTLfootnotetext
12498 \dimen\footinsv@r=3\footinsdim
12499 \count\footinsv@r=333\relax
12500 \m@make@threecol@footgroup{v@r}%
12501 \let\@footgroupv@r\@threecol@footgroupv@r
12502 \dimen\footinsv@l=3\footinsdim
12503 \count\footinsv@l=333\relax
12504 \bidi@make@threecol@LTRfootgroup{v@l}%
12505 \let\@LTRfootgroupv@l\@threecol@LTRfootgroupv@l
12506 \let\@mpfootnotetext\@mpThreeColfootnotetext
12507 \let\@mpLTRfootnotetext\@mpThreeColLTRfootnotetext
12508 \let\@mpRTLfootnotetext\@mpThreeColRTLfootnotetext
12509 \@bidi@after@Hy@hyperfootnotes
12510 \m@make@mpthreecol@footgroup{v@r}%
12511 \let\mp@footgroupv@r\@mpthreecol@footgroupv@r
12512 \bidi@make@mpthreecol@LTRfootgroup{v@l}%
12513 \let\mp@LTRfootgroupv@l\@mpthreecol@LTRfootgroupv@l
12514 \@ifstar\bidistar@footmarkwidth\bidinormal@footmarkwidth
12515 }
12516 \bidi@ensure@newcommand{\@threecolfootnotetext}[1]{\insert
12517 \ifRTL@footnote
12518 \footinsv@r
12519 \else
12520 \footinsv@l
12521 \fi
12522 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12523 \def\baselinestretch{\m@footnote@spacing}%
12524 \reset@font\foottextfont
12525 \@preamfntext
12526 \protected@edef\@currentlabel{%
12527 \csname p@footnote\endcsname\@thefnmark}%
12528 \color@begingroup
12529 \@threecolfootfmt{#1}%
12530 \color@endgroup}\m@mmf@prepare}
12531 \newcommand{\@ThreeColfootnotetext}[1]{%
12532 \bidi@step@absolute@footnote@count
12533 \ifRTL@footnote
12534 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12535 \else
12536 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12537 \fi
12538 \global\setbox
12539 \ifRTL@footnote
12540 \footinsv@r
12541 \else
12542 \footinsv@l

```



```

12543 \fi
12544 \vbox{%
12545   \unvbox
12546   \if@RTL@footnote
12547     \footinsv@r
12548   \else
12549     \footinsv@l
12550 \fi
12551 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12552 \def\baselinestretch{\m@m@footnote@spacing}%
12553 \reset@font\foottextfont
12554 \@preamfntext
12555 \protected@edef\@currentlabel{%
12556   \csname p@footnote\endcsname\@thefnmark}%
12557 \color@begingroup
12558   \@threecolfootfmt{#1}%
12559 \color@endgroup}\m@mmf@prepare
12560 \if@RTL@footnote
12561   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12562 \else
12563   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12564 \fi
12565 }
12566 \bidi@ensure@newcommand{\@threecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12567 \def\baselinestretch{\m@m@footnote@spacing}%
12568 \reset@font\LTRfoottextfont
12569 \@preamfntext
12570 \protected@edef\@currentlabel{%
12571   \csname p@footnote\endcsname\@thefnmark}%
12572 \color@begingroup
12573   \@threecolLTRfootfmt{#1}%
12574 \color@endgroup}\m@mmf@prepare}
12575 \newcommand{\@ThreeColLTRfootnotetext}[1]{%
12576 \bidi@step@absolute@footnote@count
12577 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12578 \global\setbox\footinsv@l\vbox{%
12579 \unvbox\footinsv@l
12580 \@RTLfalse
12581 \def\baselinestretch{\m@m@footnote@spacing}%
12582 \reset@font\LTRfoottextfont
12583 \@preamfntext
12584 \protected@edef\@currentlabel{%
12585   \csname p@footnote\endcsname\@thefnmark}%
12586 \color@begingroup
12587   \@threecolLTRfootfmt{#1}%
12588 \color@endgroup}\m@mmf@prepare
12589 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12590 }
12591 \bidi@ensure@newcommand{\@threecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
12592 \def\baselinestretch{\m@m@footnote@spacing}%
12593 \reset@font\RTLfoottextfont
12594 \@preamfntext
12595 \protected@edef\@currentlabel{%
12596   \csname p@footnote\endcsname\@thefnmark}%

```



```

12597 \color@begingroup
12598 \@threecolRTLfootfmt{#1}%
12599 \color@endgroup}\m@mmf@prepare}
12600 \newcommand{\@ThreeColRTLfootnotetext}[1]{%
12601 \bidi@step@absolutefootnote@count
12602 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12603 \global\setbox\footinsv@r\vbox{%
12604 \unvbox\footinsv@r
12605 \@RTLtrue
12606 \def\baselinestretch{\m@m@footnote@spacing}%
12607 \reset@font\RTLfoottextfont
12608 \@preamfntext
12609 \protected@edef\@currentlabel{%
12610 \csname p@footnote\endcsname\@thefnmark}%
12611 \color@begingroup
12612 \@threecolRTLfootfmt{#1}%
12613 \color@endgroup}\m@mmf@prepare
12614 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12615 }
12616 \bidi@ensure@newcommand{\@preamthreefmt}{%
12617 \hspace{.3\hspace}
12618 \parindent=\z@
12619 \tolerance=5000\relax
12620 \leavevmode}
12621 \bidi@ensure@newcommand{\@threecolfootfmt}[1]{%
12622 \@preamthreefmt
12623 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12624 \bidi@ensure@newcommand{\@threecolLTRfootfmt}[1]{%
12625 \@preamthreefmt
12626 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12627 \bidi@ensure@newcommand{\@threecolRTLfootfmt}[1]{%
12628 \@preamthreefmt
12629 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12630 \bidi@ensure@newcommand{\@mpthreecolfootnotetext}[1]{%
12631 \global\setbox
12632 \if@RTL@footnote
12633 \@mpfootinsv@r
12634 \else
12635 \@mpfootinsv@l
12636 \fi
12637 \vbox{%
12638 \unvbox
12639 \if@RTL@footnote
12640 \@mpfootinsv@r
12641 \else
12642 \@mpfootinsv@l
12643 \fi
12644 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12645 \def\baselinestretch{\m@m@footnote@spacing}%
12646 \reset@font\foottextfont
12647 \hspace\columnwidth \@parboxrestore
12648 \protected@edef\@currentlabel{%
12649 \csname p@mpfootnote\endcsname\@thefnmark}%
12650 \color@begingroup

```



```

12651 \threecolfootfmt{#1}%
12652 \color@endgroup}\m@mmf@prepare}
12653 \newcommand{\@mpThreeColfootnotetext}[1]{%
12654 \if@RTL@footnote
12655 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12656 \else
12657 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12658 \fi
12659 \global\setbox
12660 \if@RTL@footnote
12661 \@mpfootinsv@r
12662 \else
12663 \@mpfootinsv@l
12664 \fi
12665 \vbox{%
12666 \unvbox
12667 \if@RTL@footnote
12668 \@mpfootinsv@r
12669 \else
12670 \@mpfootinsv@l
12671 \fi
12672 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12673 \def\baselinestretch{\m@m@footnote@spacing}%
12674 \reset@font\foottextfont
12675 \hsize\columnwidth \@parboxrestore
12676 \protected@edef\@currentlabel{%
12677 \csname p@mpfootnote\endcsname\@thefnmark}%
12678 \color@begingroup
12679 \threecolfootfmt{#1}%
12680 \color@endgroup}\m@mmf@prepare}
12681 \bidi@ensure@newcommand{\@mpthreecolLTRfootnotetext}[1]{%
12682 \global\setbox\@mpfootinsv@l\vbox{%
12683 \unvbox\@mpfootinsv@l
12684 \@RTLfalse
12685 \def\baselinestretch{\m@m@footnote@spacing}%
12686 \reset@font\LTRfoottextfont
12687 \hsize\columnwidth \@parboxrestore
12688 \protected@edef\@currentlabel{%
12689 \csname p@mpfootnote\endcsname\@thefnmark}%
12690 \color@begingroup
12691 \threecolLTRfootfmt{#1}%
12692 \color@endgroup}\m@mmf@prepare}
12693 \newcommand{\@mpThreeColLTRfootnotetext}[1]{%
12694 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12695 \global\setbox\@mpfootinsv@l\vbox{%
12696 \unvbox\@mpfootinsv@l
12697 \@RTLfalse
12698 \def\baselinestretch{\m@m@footnote@spacing}%
12699 \reset@font\LTRfoottextfont
12700 \hsize\columnwidth \@parboxrestore
12701 \protected@edef\@currentlabel{%
12702 \csname p@mpfootnote\endcsname\@thefnmark}%
12703 \color@begingroup
12704 \threecolLTRfootfmt{#1}%

```



```

12705 \color@endgroup}\m@mmf@prepare}
12706 \bidi@ensure@newcommand{\@mpthreecolRTLfootnotetext}[1]{%
12707 \global\setbox\@mpfootinsv@r\vbox{%
12708 \unvbox\@mpfootinsv@r
12709 \RTLtrue
12710 \def\baselinestretch{\m@m@footnote@spacing}%
12711 \reset@font\RTLfoottextfont
12712 \hsize\columnwidth \@parboxrestore
12713 \protected@edef\@currentlabel{%
12714 \csname p@mpfootnote\endcsname\@thefnmark}%
12715 \color@begingroup
12716 \@threecolRTLfootfmt{#1}%
12717 \color@endgroup}\m@mmf@prepare}
12718 \newcommand{\@mpThreeColRTLfootnotetext}[1]{%
12719 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12720 \global\setbox\@mpfootinsv@r\vbox{%
12721 \unvbox\@mpfootinsv@r
12722 \RTLtrue
12723 \def\baselinestretch{\m@m@footnote@spacing}%
12724 \reset@font\RTLfoottextfont
12725 \hsize\columnwidth \@parboxrestore
12726 \protected@edef\@currentlabel{%
12727 \csname p@mpfootnote\endcsname\@thefnmark}%
12728 \color@begingroup
12729 \@threecolRTLfootfmt{#1}%
12730 \color@endgroup}\m@mmf@prepare}
12731 \bidi@ensure@newcommand{\m@make@threecol@footgroup}[1]{%
12732 \@namedef{@threecol@footgroup#1}{%
12733 \def\baselinestretch{\m@m@footnote@spacing}%
12734 \hsize\bidi@columnwidth
12735 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12736 \m@mrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}%
12737 \newcommand{\bidi@make@threecol@LTRfootgroup}[1]{%
12738 \@namedef{@threecol@LTRfootgroup#1}{%
12739 \def\baselinestretch{\m@m@footnote@spacing}%
12740 \hsize\bidi@columnwidth
12741 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12742 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{\thr@@}{\splittopskip}}}%
12743 \bidi@ensure@newcommand{\m@make@mpthreecol@footgroup}[1]{%
12744 \@namedef{@mpthreecol@footgroup#1}{%
12745 \def\baselinestretch{\m@m@footnote@spacing}%
12746 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12747 \m@mrigidbalance{\@nameuse{mpfootins#1}}{\thr@@}{\splittopskip}}}%
12748 \newcommand{\bidi@make@mpthreecol@LTRfootgroup}[1]{%
12749 \@namedef{@mpthreecol@LTRfootgroup#1}{%
12750 \def\baselinestretch{\m@m@footnote@spacing}%
12751 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
12752 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{\thr@@}{\splittopskip}}}%
12753 \bidi@ensure@newcommand{\fourcolumnfootnotes}{%
12754 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12755 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12756 \@bidi@before@Hy@hyperfootnotes
12757 \let\@footnotetext\@fourcolfootnotetext
12758 \let\@LTRfootnotetext\@fourcolLTRfootnotetext

```



```

12759 \let\@RTLfootnotetext\@fourcolRTLfootnotetext
12760 \dimen\footinsv@r=4\footinsdim
12761 \count\footinsv@r=250\relax
12762 \m@make@fourcol@footgroup{v@r}%
12763 \let\@footgroupv@r\@fourcol@footgroupv@r
12764 \dimen\footinsv@l=4\footinsdim
12765 \count\footinsv@l=250\relax
12766 \bidi@make@fourcol@LTRfootgroup{v@l}%
12767 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12768 \let\@mpfootnotetext\@mpfourcolfootnotetext
12769 \let\@mpLTRfootnotetext\@mpfourcolLTRfootnotetext
12770 \let\@mpRTLfootnotetext\@mpfourcolRTLfootnotetext
12771 \@bidi@after@Hy@hyperfootnotes
12772 \m@make@mpfourcol@footgroup{v@r}%
12773 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12774 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12775 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12776 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12777 }
12778 \newcommand{\FourColumnFootnotes}{%
12779 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
12780 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
12781 \@bidi@before@Hy@hyperfootnotes
12782 \let\@footnotetext\@FourColfootnotetext
12783 \let\@LTRfootnotetext\@FourColLTRfootnotetext
12784 \let\@RTLfootnotetext\@FourColRTLfootnotetext
12785 \dimen\footinsv@r=4\footinsdim
12786 \count\footinsv@r=250\relax
12787 \m@make@fourcol@footgroup{v@r}%
12788 \let\@footgroupv@r\@fourcol@footgroupv@r
12789 \dimen\footinsv@l=4\footinsdim
12790 \count\footinsv@l=250\relax
12791 \bidi@make@fourcol@LTRfootgroup{v@l}%
12792 \let\@LTRfootgroupv@l\@fourcol@LTRfootgroupv@l
12793 \let\@mpfootnotetext\@mpFourColfootnotetext
12794 \let\@mpLTRfootnotetext\@mpFourColLTRfootnotetext
12795 \let\@mpRTLfootnotetext\@mpFourColRTLfootnotetext
12796 \@bidi@after@Hy@hyperfootnotes
12797 \m@make@mpfourcol@footgroup{v@r}%
12798 \let\mp@footgroupv@r\@mpfourcol@footgroupv@r
12799 \bidi@make@mpfourcol@LTRfootgroup{v@l}%
12800 \let\mp@LTRfootgroupv@l\@mpfourcol@LTRfootgroupv@l
12801 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
12802 }
12803 \bidi@ensure@newcommand{\@fourcolfootnotetext}[1]{\insert
12804 \if@RTL@footnote
12805 \footinsv@r
12806 \else
12807 \footinsv@l
12808 \fi
12809 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
12810 \def\baselinestretch{\m@footnote@spacing}%
12811 \reset@font\foottextfont
12812 \@preamfntext

```



```

12813 \protected@edef\@currentlabel{%
12814   \csname p@footnote\endcsname\@thefnmark}%
12815 \color@begingroup
12816   \@fourcolfootfmt{#1}%
12817 \color@endgroup}%
12818 \m@mmf@prepare}
12819 \newcommand{\@FourColfootnotetext}[1]{%
12820   \bidi@step@absolutefootnote@count
12821   \if@RTL@footnote
12822     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12823   \else
12824     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12825   \fi
12826   \global\setbox
12827   \if@RTL@footnote
12828     \footinsv@r
12829   \else
12830     \footinsv@l
12831   \fi
12832   \vbox{%
12833     \unvbox
12834     \if@RTL@footnote
12835       \footinsv@r
12836     \else
12837       \footinsv@l
12838     \fi
12839     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12840     \def\baselinestretch{\m@m@footnote@spacing}%
12841     \reset@font\foottextfont
12842     \@preamfntext
12843     \protected@edef\@currentlabel{%
12844       \csname p@footnote\endcsname\@thefnmark}%
12845     \color@begingroup
12846       \@fourcolfootfmt{#1}%
12847     \color@endgroup}%
12848     \m@mmf@prepare
12849     \if@RTL@footnote
12850       \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12851     \else
12852       \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12853     \fi
12854   }
12855   \bidi@ensure@newcommand{\@fourcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
12856     \def\baselinestretch{\m@m@footnote@spacing}%
12857     \reset@font\LTRfoottextfont
12858     \@preamfntext
12859     \protected@edef\@currentlabel{%
12860       \csname p@footnote\endcsname\@thefnmark}%
12861     \color@begingroup
12862       \@fourcolLTRfootfmt{#1}%
12863     \color@endgroup}%
12864     \m@mmf@prepare}
12865   \newcommand{\@FourColLTRfootnotetext}[1]{%
12866     \bidi@step@absolutefootnote@count

```





```

12867 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
12868 \global\setbox\footinsv@l\vbox{%
12869 \unvbox\footinsv@l
12870 \RTLfalse%
12871 \def\baselinestretch{\m@m@footnote@spacing}%
12872 \reset@font\LTRfoottextfont
12873 \@preamfntext
12874 \protected@edef\@currentlabel{%
12875 \csname p@footnote\endcsname\@thefnmark}%
12876 \color@begingroup
12877 \@fourcolLTRfootfmt{#1}%
12878 \color@endgroup}%
12879 \m@m@m@prepare
12880 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12881 }
12882 \bidi@ensure@newcommand{\@fourcolRTLfootnotetext}[1]{\insert\footinsv@r{\RTLtrue%
12883 \def\baselinestretch{\m@m@footnote@spacing}%
12884 \reset@font\RTLfoottextfont
12885 \@preamfntext
12886 \protected@edef\@currentlabel{%
12887 \csname p@footnote\endcsname\@thefnmark}%
12888 \color@begingroup
12889 \@fourcolRTLfootfmt{#1}%
12890 \color@endgroup}%
12891 \m@m@m@prepare}
12892 \newcommand{\@FourColRTLfootnotetext}[1]{%
12893 \bidi@step@absolutefootnote@count
12894 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
12895 \global\setbox\footinsv@r\vbox{%
12896 \unvbox\footinsv@r
12897 \RTLtrue
12898 \def\baselinestretch{\m@m@footnote@spacing}%
12899 \reset@font\RTLfoottextfont
12900 \@preamfntext
12901 \protected@edef\@currentlabel{%
12902 \csname p@footnote\endcsname\@thefnmark}%
12903 \color@begingroup
12904 \@fourcolRTLfootfmt{#1}%
12905 \color@endgroup}%
12906 \m@m@m@prepare
12907 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
12908 }
12909 \bidi@ensure@newcommand{\@preamfourfmt}{%
12910 \hspace{.25\hspace}
12911 \parindent=\z@
12912 \tolerance=5000\relax
12913 \leavevmode}
12914 \bidi@ensure@newcommand{\@fourcolfootfmt}[1]{%
12915 \@preamfourfmt
12916 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
12917 \bidi@ensure@newcommand{\@fourcolLTRfootfmt}[1]{%
12918 \@preamfourfmt
12919 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
12920 \bidi@ensure@newcommand{\@fourcolRTLfootfmt}[1]{%

```



```

12921 \@preamfourfmt
12922 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
12923 \bidi@ensure@newcommand{\@mpfourcolfootnotetext}[1]{%
12924   \global\setbox
12925     \if@RTL@footnote
12926     \@mpfootinsv@r
12927   \else
12928     \@mpfootinsv@l
12929   \fi
12930   \vbox{%
12931     \unvbox
12932     \if@RTL@footnote
12933     \@mpfootinsv@r
12934   \else
12935     \@mpfootinsv@l
12936   \fi
12937   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12938   \def\baselinestretch{\m@m@footnote@spacing}%
12939   \reset@font\foottextfont
12940   \hsize\columnwidth \@parboxrestore
12941   \protected@edef\@currentlabel{%
12942     \csname p@mpfootnote\endcsname\@thefnmark}%
12943   \color@begingroup
12944     \@fourcolfootfmt{#1}%
12945   \color@endgroup}%
12946   \m@m@m@prepare}
12947 \newcommand{\@mpFourColfootnotetext}[1]{%
12948   \if@RTL@footnote
12949     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
12950   \else
12951     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12952   \fi
12953   \global\setbox
12954     \if@RTL@footnote
12955     \@mpfootinsv@r
12956   \else
12957     \@mpfootinsv@l
12958   \fi
12959   \vbox{%
12960     \unvbox
12961     \if@RTL@footnote
12962     \@mpfootinsv@r
12963   \else
12964     \@mpfootinsv@l
12965   \fi
12966   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
12967   \def\baselinestretch{\m@m@footnote@spacing}%
12968   \reset@font\foottextfont
12969   \hsize\columnwidth \@parboxrestore
12970   \protected@edef\@currentlabel{%
12971     \csname p@mpfootnote\endcsname\@thefnmark}%
12972   \color@begingroup
12973     \@fourcolfootfmt{#1}%
12974   \color@endgroup}%

```



```

12975 \m@mmf@prepare}
12976 \bidi@ensure@newcommand{\@mpfourcolLTRfootnotetext}[1]{%
12977 \global\setbox\@mpfootinsv@l\vbox{%
12978 \unvbox\@mpfootinsv@l
12979 \@RTLfalse
12980 \def\baselinestretch{\m@m@footnote@spacing}%
12981 \reset@font\LTRfoottextfont
12982 \hsize\columnwidth \@parboxrestore
12983 \protected@edef\@currentlabel{%
12984 \csname p@mpfootnote\endcsname\@thefnmark}%
12985 \color@begingroup
12986 \@fourcolLTRfootfmt{#1}%
12987 \color@endgroup}%
12988 \m@mmf@prepare}
12989 \newcommand{\@mpFourColLTRfootnotetext}[1]{%
12990 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
12991 \global\setbox\@mpfootinsv@l\vbox{%
12992 \unvbox\@mpfootinsv@l
12993 \@RTLfalse
12994 \def\baselinestretch{\m@m@footnote@spacing}%
12995 \reset@font\LTRfoottextfont
12996 \hsize\columnwidth \@parboxrestore
12997 \protected@edef\@currentlabel{%
12998 \csname p@mpfootnote\endcsname\@thefnmark}%
12999 \color@begingroup
13000 \@fourcolLTRfootfmt{#1}%
13001 \color@endgroup}%
13002 \m@mmf@prepare}
13003 \bidi@ensure@newcommand{\@mpfourcolRTLfootnotetext}[1]{%
13004 \global\setbox\@mpfootinsv@r\vbox{%
13005 \unvbox\@mpfootinsv@r
13006 \@RTLtrue
13007 \def\baselinestretch{\m@m@footnote@spacing}%
13008 \reset@font\RTLfoottextfont
13009 \hsize\columnwidth \@parboxrestore
13010 \protected@edef\@currentlabel{%
13011 \csname p@mpfootnote\endcsname\@thefnmark}%
13012 \color@begingroup
13013 \@fourcolRTLfootfmt{#1}%
13014 \color@endgroup}%
13015 \m@mmf@prepare}
13016 \newcommand{\@mpFourColRTLfootnotetext}[1]{%
13017 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13018 \global\setbox\@mpfootinsv@r\vbox{%
13019 \unvbox\@mpfootinsv@r
13020 \@RTLtrue
13021 \def\baselinestretch{\m@m@footnote@spacing}%
13022 \reset@font\RTLfoottextfont
13023 \hsize\columnwidth \@parboxrestore
13024 \protected@edef\@currentlabel{%
13025 \csname p@mpfootnote\endcsname\@thefnmark}%
13026 \color@begingroup
13027 \@fourcolRTLfootfmt{#1}%
13028 \color@endgroup}%

```



```

13029 \m@mmf@prepare}
13030 \bidi@ensure@newcommand{\m@make@fourcol@footgroup}[1]{%
13031 \@namedef{@fourcol@footgroup#1}{%
13032 \def\baselinestretch{\m@m@footnote@spacing}%
13033 \hsize\bidi@columnwidth
13034 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13035 \m@mrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
13036 \newcommand{\bidi@make@fourcol@LTRfootgroup}[1]{%
13037 \@namedef{@fourcol@LTRfootgroup#1}{%
13038 \def\baselinestretch{\m@m@footnote@spacing}%
13039 \hsize\bidi@columnwidth
13040 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13041 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{4}{\splittopskip}}}}
13042 \bidi@ensure@newcommand{\m@make@mpfourcol@footgroup}[1]{%
13043 \@namedef{@mpfourcol@footgroup#1}{%
13044 \def\baselinestretch{\m@m@footnote@spacing}%
13045 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13046 \m@mrigidbalance{\@nameuse{mpfootins#1}}{4}{\splittopskip}}}}
13047 \newcommand{\bidi@make@mpfourcol@LTRfootgroup}[1]{%
13048 \@namedef{@mpfourcol@LTRfootgroup#1}{%
13049 \def\baselinestretch{\m@m@footnote@spacing}%
13050 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13051 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{4}{\splittopskip}}}}
13052 \bidi@ensure@newcommand{\fivecolumnfootnotes}{%
13053 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13054 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13055 \@bidi@before@Hy@hyperfootnotes
13056 \let\@footnotetext\@fivecolfootnotetext
13057 \let\@LTRfootnotetext\@fivecolLTRfootnotetext
13058 \let\@RTLfootnotetext\@fivecolRTLfootnotetext
13059 \dimen\footinsv@r=5\footinsdim
13060 \count\footinsv@r=200\relax
13061 \m@make@fivecol@footgroup{v@r}%
13062 \let\@footgroupv@r\@fivecol@footgroupv@r
13063 \dimen\footinsv@l=5\footinsdim
13064 \count\footinsv@l=200\relax
13065 \bidi@make@fivecol@LTRfootgroup{v@l}%
13066 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
13067 \let\@mpfootnotetext\@mpfivecolfootnotetext
13068 \let\@mpLTRfootnotetext\@mpfivecolLTRfootnotetext
13069 \let\@mpRTLfootnotetext\@mpfivecolRTLfootnotetext
13070 \@bidi@after@Hy@hyperfootnotes
13071 \m@make@mpfivecol@footgroup{v@r}%
13072 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
13073 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
13074 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
13075 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13076 }
13077 \newcommand{\FiveColumnFootnotes}{%
13078 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13079 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13080 \@bidi@before@Hy@hyperfootnotes
13081 \let\@footnotetext\@FiveColfootnotetext
13082 \let\@LTRfootnotetext\@FiveCollTRfootnotetext

```



```

13083 \let\@RTLfootnotetext\@FiveColRTLfootnotetext
13084 \dimen\footinsv@r=5\footinsdim
13085 \count\footinsv@r=200\relax
13086 \m@make@fivecol@footgroup{v@r}%
13087 \let\@footgroupv@r\@fivecol@footgroupv@r
13088 \dimen\footinsv@l=5\footinsdim
13089 \count\footinsv@l=200\relax
13090 \bidi@make@fivecol@LTRfootgroup{v@l}%
13091 \let\@LTRfootgroupv@l\@fivecol@LTRfootgroupv@l
13092 \let\@mpfootnotetext\@mpFiveColfootnotetext
13093 \let\@mpLTRfootnotetext\@mpFiveColLTRfootnotetext
13094 \let\@mpRTLfootnotetext\@mpFiveColRTLfootnotetext
13095 \@bidi@after@Hy@hyperfootnotes
13096 \m@make@mpfivecol@footgroup{v@r}%
13097 \let\mp@footgroupv@r\@mpfivecol@footgroupv@r
13098 \bidi@make@mpfivecol@LTRfootgroup{v@l}%
13099 \let\mp@LTRfootgroupv@l\@mpfivecol@LTRfootgroupv@l
13100 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13101 }
13102 \bidi@ensure@newcommand{\@fivecolfootnotetext}[1]{\insert
13103 \if@RTL@footnote
13104 \footinsv@r
13105 \else
13106 \footinsv@l
13107 \fi
13108 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13109 \def\baselinestretch{\m@footnote@spacing}%
13110 \reset@font\foottextfont
13111 \@preamfntext
13112 \protected@edef\@currentlabel{%
13113 \csname p@footnote\endcsname\@thefnmark}%
13114 \color@begingroup
13115 \@fivecolfootfmt{#1}%
13116 \color@endgroup}%
13117 \m@mmf@prepare}
13118 \newcommand{\@FiveColfootnotetext}[1]{%
13119 \bidi@step@absolute@footnote@count
13120 \if@RTL@footnote
13121 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13122 \else
13123 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13124 \fi
13125 \global\setbox
13126 \if@RTL@footnote
13127 \footinsv@r
13128 \else
13129 \footinsv@l
13130 \fi
13131 \vbox{%
13132 \unvbox
13133 \if@RTL@footnote
13134 \footinsv@r
13135 \else
13136 \footinsv@l

```



```

13137 \fi
13138 \ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi
13139 \def\baselinestretch{\m@m@footnote@spacing}%
13140 \reset@font\foottextfont
13141 \@preamfntext
13142 \protected@edef\@currentlabel{%
13143   \csname p@footnote\endcsname\@thefnmark}%
13144 \color@begingroup
13145   \@fivecolfootfmt{#1}%
13146 \color@endgroup}%
13147 \m@m@mmf@prepare
13148 \ifRTL@footnote
13149   \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13150 \else
13151   \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13152 \fi
13153 }
13154 \bidi@ensure@newcommand{\@fivecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13155 \def\baselinestretch{\m@m@footnote@spacing}%
13156 \reset@font\LTRfoottextfont
13157 \@preamfntext
13158 \protected@edef\@currentlabel{%
13159   \csname p@footnote\endcsname\@thefnmark}%
13160 \color@begingroup
13161   \@fivecolLTRfootfmt{#1}%
13162 \color@endgroup}%
13163 \m@m@mmf@prepare}
13164 \newcommand{\@FiveColLTRfootnotetext}[1]{%
13165 \bidi@step@absolute@footnote@count
13166 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13167 \global\setbox\footinsv@l\vbox{%
13168 \unvbox\footinsv@l
13169 \@RTLfalse
13170 \def\baselinestretch{\m@m@footnote@spacing}%
13171 \reset@font\LTRfoottextfont
13172 \@preamfntext
13173 \protected@edef\@currentlabel{%
13174   \csname p@footnote\endcsname\@thefnmark}%
13175 \color@begingroup
13176   \@fivecolLTRfootfmt{#1}%
13177 \color@endgroup}%
13178 \m@m@mmf@prepare
13179 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13180 }
13181 \bidi@ensure@newcommand{\@fivecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13182 \def\baselinestretch{\m@m@footnote@spacing}%
13183 \reset@font\RTLfoottextfont
13184 \@preamfntext
13185 \protected@edef\@currentlabel{%
13186   \csname p@footnote\endcsname\@thefnmark}%
13187 \color@begingroup
13188   \@fivecolRTLfootfmt{#1}%
13189 \color@endgroup}%
13190 \m@m@mmf@prepare}

```



```

13191 \newcommand{\@FiveColRTLfootnotetext}[1]{%
13192   \bidi@step@absolutefootnote@count
13193   \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13194   \global\setbox\footinsv@r\vbox{%
13195     \unvbox\footinsv@r
13196     \@RTLtrue
13197     \def\baselinestretch{\m@m@footnote@spacing}%
13198     \reset@font\RTLfoottextfont
13199     \@preamfntext
13200     \protected@edef\@currentlabel{%
13201       \csname p@footnote\endcsname\@thefnmark}%
13202     \color@begingroup
13203       \@fivecolRTLfootfmt{#1}%
13204     \color@endgroup}%
13205     \m@mmf@prepare
13206     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13207   }
13208 \bidi@ensure@newcommand{\@preamfivefmt}{%
13209   \hsize .2\hsize
13210   \parindent=\z@
13211   \tolerance=5000\relax
13212   \leavevmode}
13213 \bidi@ensure@newcommand{\@fivecolfootfmt}[1]{%
13214   \@preamfivefmt
13215   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13216 \bidi@ensure@newcommand{\@fivecolLTRfootfmt}[1]{%
13217   \@preamfivefmt
13218   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13219 \bidi@ensure@newcommand{\@fivecolRTLfootfmt}[1]{%
13220   \@preamfivefmt
13221   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13222 \bidi@ensure@newcommand{\@mpfivecolfootnotetext}[1]{%
13223   \global\setbox
13224     \if@RTL@footnote
13225     \@mpfootinsv@r
13226   \else
13227     \@mpfootinsv@l
13228   \fi
13229   \vbox{%
13230     \unvbox
13231     \if@RTL@footnote
13232     \@mpfootinsv@r
13233   \else
13234     \@mpfootinsv@l
13235   \fi
13236   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13237   \def\baselinestretch{\m@m@footnote@spacing}%
13238   \reset@font\foottextfont
13239   \hsize\columnwidth \@parboxrestore
13240   \protected@edef\@currentlabel{%
13241     \csname p@mpfootnote\endcsname\@thefnmark}%
13242   \color@begingroup
13243     \@fivecolfootfmt{#1}%
13244   \color@endgroup}%

```



```

13245 \m@mmf@prepare}
13246 \newcommand{\@mpFiveColfootnotetext}[1]{%
13247   \if@RTL@footnote
13248     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13249   \else
13250     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13251   \fi
13252   \global\setbox
13253     \if@RTL@footnote
13254       \@mpfootinsv@r
13255     \else
13256       \@mpfootinsv@l
13257   \fi
13258   \vbox{%
13259     \unvbox
13260     \if@RTL@footnote
13261       \@mpfootinsv@r
13262     \else
13263       \@mpfootinsv@l
13264   \fi
13265   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13266   \def\baselinestretch{\m@m@footnote@spacing}%
13267   \reset@font\foottextfont
13268   \hsize\columnwidth \@parboxrestore
13269   \protected@edef\@currentlabel{%
13270     \csname p@mpfootnote\endcsname\@thefnmark}%
13271   \color@begingroup
13272     \@fivecolfootfmt{#1}%
13273   \color@endgroup}%
13274   \m@mmf@prepare}
13275 \bidi@ensure@newcommand{\@mpfivecolLTRfootnotetext}[1]{%
13276   \global\setbox\@mpfootinsv@l\vbox{%
13277     \unvbox\@mpfootinsv@l
13278     \@RTLfalse
13279     \def\baselinestretch{\m@m@footnote@spacing}%
13280     \reset@font\LTRfoottextfont
13281     \hsize\columnwidth \@parboxrestore
13282     \protected@edef\@currentlabel{%
13283       \csname p@mpfootnote\endcsname\@thefnmark}%
13284     \color@begingroup
13285       \@fivecolLTRfootfmt{#1}%
13286     \color@endgroup}%
13287   \m@mmf@prepare}
13288 \newcommand{\@mpFiveColLTRfootnotetext}[1]{%
13289   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13290   \global\setbox\@mpfootinsv@l\vbox{%
13291     \unvbox\@mpfootinsv@l
13292     \@RTLfalse
13293     \def\baselinestretch{\m@m@footnote@spacing}%
13294     \reset@font\LTRfoottextfont
13295     \hsize\columnwidth \@parboxrestore
13296     \protected@edef\@currentlabel{%
13297       \csname p@mpfootnote\endcsname\@thefnmark}%
13298   \color@begingroup

```





```

13299 \@@fivecolLTRfootfmt{#1}%
13300 \color@endgroup}%
13301 \m@mmf@prepare}
13302 \bidi@ensure@newcommand{\@mpfivecolRTLfootnotetext}[1]{%
13303 \global\setbox\@mpfootinsv@r\vbox{%
13304 \unvbox\@mpfootinsv@r
13305 \RTLtrue
13306 \def\baselinestretch{\m@m@footnote@spacing}%
13307 \reset@font\RTLfoottextfont
13308 \hsize\columnwidth \@parboxrestore
13309 \protected@edef\@currentlabel{%
13310 \csname p@mpfootnote\endcsname\@thefnmark}%
13311 \color@begingroup
13312 \@@fivecolRTLfootfmt{#1}%
13313 \color@endgroup}%
13314 \m@mmf@prepare}
13315 \newcommand{\@mpFiveColRTLfootnotetext}[1]{%
13316 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13317 \global\setbox\@mpfootinsv@r\vbox{%
13318 \unvbox\@mpfootinsv@r
13319 \RTLtrue
13320 \def\baselinestretch{\m@m@footnote@spacing}%
13321 \reset@font\RTLfoottextfont
13322 \hsize\columnwidth \@parboxrestore
13323 \protected@edef\@currentlabel{%
13324 \csname p@mpfootnote\endcsname\@thefnmark}%
13325 \color@begingroup
13326 \@@fivecolRTLfootfmt{#1}%
13327 \color@endgroup}%
13328 \m@mmf@prepare}
13329 \bidi@ensure@newcommand{\m@make@fivecol@footgroup}[1]{%
13330 \@namedef{@fivecol@footgroup#1}{%
13331 \def\baselinestretch{\m@m@footnote@spacing}%
13332 \hsize\bidi@columnwidth
13333 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13334 \m@mrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}%
13335 \newcommand{\bidi@make@fivecol@LTRfootgroup}[1]{%
13336 \@namedef{@fivecol@LTRfootgroup#1}{%
13337 \def\baselinestretch{\m@m@footnote@spacing}%
13338 \hsize\bidi@columnwidth
13339 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13340 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{5}{\splittopskip}}}%
13341 \bidi@ensure@newcommand{\m@make@mpfivecol@footgroup}[1]{%
13342 \@namedef{@mpfivecol@footgroup#1}{%
13343 \def\baselinestretch{\m@m@footnote@spacing}%
13344 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13345 \m@mrigidbalance{\@nameuse{mpfootins#1}}{5}{\splittopskip}}}%
13346 \newcommand{\bidi@make@mpfivecol@LTRfootgroup}[1]{%
13347 \@namedef{@mpfivecol@LTRfootgroup#1}{%
13348 \def\baselinestretch{\m@m@footnote@spacing}%
13349 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13350 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{5}{\splittopskip}}}%
13351 \bidi@ensure@newcommand{\sixcolumnfootnotes}{%
13352 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]

```



```

13353 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13354 \@bidi@before@Hy@hyperfootnotes
13355 \let\@footnotetext\@sixcolfootnotetext
13356 \let\@LTRfootnotetext\@sixcolLTRfootnotetext
13357 \let\@RTLfootnotetext\@sixcolRTLfootnotetext
13358 \dimen\footinsv@r=6\footinsdim
13359 \count\footinsv@r=166\relax
13360 \m@make@sixcol@footgroup{v@r}%
13361 \let\@footgroupv@r\@sixcol@footgroupv@r
13362 \dimen\footinsv@l=6\footinsdim
13363 \count\footinsv@l=166\relax
13364 \bidi@make@sixcol@LTRfootgroup{v@l}%
13365 \let\@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
13366 \let\@mpfootnotetext\@mpsixcolfootnotetext
13367 \let\@mpLTRfootnotetext\@mpsixcolLTRfootnotetext
13368 \let\@mpRTLfootnotetext\@mpsixcolRTLfootnotetext
13369 \@bidi@after@Hy@hyperfootnotes
13370 \m@make@mpsixcol@footgroup{v@r}%
13371 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
13372 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
13373 \let\mp@LTRfootgroupv@l\@mpsixcol@LTRfootgroupv@l
13374 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13375 }
13376 \newcommand{\SixColumnFootnotes}{%
13377 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13378 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13379 \@bidi@before@Hy@hyperfootnotes
13380 \let\@footnotetext\@SixColfootnotetext
13381 \let\@LTRfootnotetext\@SixColLTRfootnotetext
13382 \let\@RTLfootnotetext\@SixColRTLfootnotetext
13383 \dimen\footinsv@r=6\footinsdim
13384 \count\footinsv@r=166\relax
13385 \m@make@sixcol@footgroup{v@r}%
13386 \let\@footgroupv@r\@sixcol@footgroupv@r
13387 \dimen\footinsv@l=6\footinsdim
13388 \count\footinsv@l=166\relax
13389 \bidi@make@sixcol@LTRfootgroup{v@l}%
13390 \let\@LTRfootgroupv@l\@sixcol@LTRfootgroupv@l
13391 \let\@mpfootnotetext\@mpSixColfootnotetext
13392 \let\@mpLTRfootnotetext\@mpSixColLTRfootnotetext
13393 \let\@mpRTLfootnotetext\@mpSixColRTLfootnotetext
13394 \@bidi@after@Hy@hyperfootnotes
13395 \m@make@mpsixcol@footgroup{v@r}%
13396 \let\mp@footgroupv@r\@mpsixcol@footgroupv@r
13397 \bidi@make@mpsixcol@LTRfootgroup{v@l}%
13398 \let\mp@LTRfootgroupv@l\@mpsixcol@LTRfootgroupv@l
13399 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13400 }
13401 \bidi@ensure@newcommand{\@sixcolfootnotetext}[1]{\insert
13402 \if@RTL@footnote
13403 \footinsv@r
13404 \else
13405 \footinsv@l
13406 \fi

```



```

13407 {\ifRTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13408 \def\baselinestretch{\m@m@footnote@spacing}%
13409 \reset@font\foottextfont
13410 \@preamfntext
13411 \protected@edef\@currentlabel{%
13412 \csname p@footnote\endcsname\@thefnmark}%
13413 \color@begingroup
13414 \@sixcolfootfmt{#1}%
13415 \color@endgroup}%
13416 \m@mmf@prepare}
13417 \newcommand{\@SixColfootnotetext}[1]{%
13418 \bidi@step@absolute@footnote@count
13419 \if@RTL@footnote
13420 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13421 \else
13422 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13423 \fi
13424 \global\setbox
13425 \if@RTL@footnote
13426 \footinsv@r
13427 \else
13428 \footinsv@l
13429 \fi
13430 \vbox{%
13431 \unvbox
13432 \if@RTL@footnote
13433 \footinsv@r
13434 \else
13435 \footinsv@l
13436 \fi
13437 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13438 \def\baselinestretch{\m@m@footnote@spacing}%
13439 \reset@font\foottextfont
13440 \@preamfntext
13441 \protected@edef\@currentlabel{%
13442 \csname p@footnote\endcsname\@thefnmark}%
13443 \color@begingroup
13444 \@sixcolfootfmt{#1}%
13445 \color@endgroup}%
13446 \m@mmf@prepare
13447 \if@RTL@footnote
13448 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13449 \else
13450 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13451 \fi
13452 }
13453 \bidi@ensure@newcommand{\@sixcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13454 \def\baselinestretch{\m@m@footnote@spacing}%
13455 \reset@font\LTRfoottextfont
13456 \@preamfntext
13457 \protected@edef\@currentlabel{%
13458 \csname p@footnote\endcsname\@thefnmark}%
13459 \color@begingroup
13460 \@sixcolLTRfootfmt{#1}%

```



```

13461 \color@endgroup}%
13462 \m@mmf@prepare}
13463 \newcommand{\@SixColLTRfootnotetext}[1]{%
13464 \bidi@step@absolutefootnote@count
13465 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13466 \global\setbox\footinsv@l\vbox{%
13467 \unvbox\footinsv@l
13468 \@RTLfalse
13469 \def\baselinestretch{\m@m@footnote@spacing}%
13470 \reset@font\LTRfoottextfont
13471 \@preamfntext
13472 \protected@edef\@currentlabel{%
13473 \csname p@footnote\endcsname\@thefnmark}%
13474 \color@begingroup
13475 \@sixcolLTRfootfmt{#1}%
13476 \color@endgroup}%
13477 \m@mmf@prepare
13478 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13479 }
13480 \bidi@ensure@newcommand{\@sixcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13481 \def\baselinestretch{\m@m@footnote@spacing}%
13482 \reset@font\RTLfoottextfont
13483 \@preamfntext
13484 \protected@edef\@currentlabel{%
13485 \csname p@footnote\endcsname\@thefnmark}%
13486 \color@begingroup
13487 \@sixcolRTLfootfmt{#1}%
13488 \color@endgroup}%
13489 \m@mmf@prepare}
13490 \newcommand{\@SixColRTLfootnotetext}[1]{%
13491 \bidi@step@absolutefootnote@count
13492 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13493 \global\setbox\footinsv@r\vbox{%
13494 \unvbox\footinsv@r
13495 \@RTLtrue
13496 \def\baselinestretch{\m@m@footnote@spacing}%
13497 \reset@font\RTLfoottextfont
13498 \@preamfntext
13499 \protected@edef\@currentlabel{%
13500 \csname p@footnote\endcsname\@thefnmark}%
13501 \color@begingroup
13502 \@sixcolRTLfootfmt{#1}%
13503 \color@endgroup}%
13504 \m@mmf@prepare
13505 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13506 }
13507 \bidi@ensure@newcommand{\@preamsixfmt}{%
13508 \hspace{.16\hsize}
13509 \parindent=\z@
13510 \tolerance=5000\relax
13511 \leavevmode}
13512 \bidi@ensure@newcommand{\@sixcolfootfmt}[1]{%
13513 \@preamsixfmt
13514 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}

```



```

13515 \bidi@ensure@newcommand{\@sixcolLTRfootfmt}[1]{%
13516   \@preamsixfmt
13517   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13518 \bidi@ensure@newcommand{\@sixcolRTLfootfmt}[1]{%
13519   \@preamsixfmt
13520   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13521 \bidi@ensure@newcommand{\@mpsixcolfootnotetext}[1]{%
13522   \global\setbox
13523     \if@RTL@footnote
13524     \@mpfootinsv@r
13525   \else
13526     \@mpfootinsv@l
13527   \fi
13528   \vbox{%
13529     \unvbox
13530     \if@RTL@footnote
13531     \@mpfootinsv@r
13532   \else
13533     \@mpfootinsv@l
13534   \fi
13535   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13536   \def\baselinestretch{\m@m@footnote@spacing}%
13537   \reset@font\foottextfont
13538   \hsize\columnwidth \@parboxrestore
13539   \protected@edef\@currentlabel{%
13540     \csname p@mpfootnote\endcsname\@thefnmark}%
13541   \color@begingroup
13542     \@sixcolfootfmt{#1}%
13543   \color@endgroup}%
13544   \m@m@prepare}
13545 \newcommand{\@mpSixColfootnotetext}[1]{%
13546   \if@RTL@footnote
13547     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13548   \else
13549     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13550   \fi
13551   \global\setbox
13552     \if@RTL@footnote
13553     \@mpfootinsv@r
13554   \else
13555     \@mpfootinsv@l
13556   \fi
13557   \vbox{%
13558     \unvbox
13559     \if@RTL@footnote
13560     \@mpfootinsv@r
13561   \else
13562     \@mpfootinsv@l
13563   \fi
13564   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13565   \def\baselinestretch{\m@m@footnote@spacing}%
13566   \reset@font\foottextfont
13567   \hsize\columnwidth \@parboxrestore
13568   \protected@edef\@currentlabel{%

```



```

13569 \csname p@mpfootnote\endcsname\@thefnmark}%
13570 \color@begingroup
13571 \@sixcolfootfmt{#1}%
13572 \color@endgroup}%
13573 \m@mmf@prepare}
13574 \bidi@ensure@newcommand{\@mpsixcolLTRfootnotetext}[1]{%
13575 \global\setbox\@mpfootinsv@l\vbox{%
13576 \unvbox\@mpfootinsv@l
13577 \@RTLfalse
13578 \def\baselinestretch{\m@m@footnote@spacing}%
13579 \reset@font\LTRfoottextfont
13580 \hsize\columnwidth \@parboxrestore
13581 \protected@edef\@currentlabel{%
13582 \csname p@mpfootnote\endcsname\@thefnmark}%
13583 \color@begingroup
13584 \@sixcolLTRfootfmt{#1}%
13585 \color@endgroup}%
13586 \m@mmf@prepare}
13587 \newcommand{\@mpSixColLTRfootnotetext}[1]{%
13588 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13589 \global\setbox\@mpfootinsv@l\vbox{%
13590 \unvbox\@mpfootinsv@l
13591 \@RTLfalse
13592 \def\baselinestretch{\m@m@footnote@spacing}%
13593 \reset@font\LTRfoottextfont
13594 \hsize\columnwidth \@parboxrestore
13595 \protected@edef\@currentlabel{%
13596 \csname p@mpfootnote\endcsname\@thefnmark}%
13597 \color@begingroup
13598 \@sixcolLTRfootfmt{#1}%
13599 \color@endgroup}%
13600 \m@mmf@prepare}
13601 \bidi@ensure@newcommand{\@mpsixcolRTLfootnotetext}[1]{%
13602 \global\setbox\@mpfootinsv@r\vbox{%
13603 \unvbox\@mpfootinsv@r
13604 \@RTLtrue
13605 \def\baselinestretch{\m@m@footnote@spacing}%
13606 \reset@font\RTLfoottextfont
13607 \hsize\columnwidth \@parboxrestore
13608 \protected@edef\@currentlabel{%
13609 \csname p@mpfootnote\endcsname\@thefnmark}%
13610 \color@begingroup
13611 \@sixcolRTLfootfmt{#1}%
13612 \color@endgroup}%
13613 \m@mmf@prepare}
13614 \newcommand{\@mpSixColRTLfootnotetext}[1]{%
13615 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13616 \global\setbox\@mpfootinsv@r\vbox{%
13617 \unvbox\@mpfootinsv@r
13618 \@RTLtrue
13619 \def\baselinestretch{\m@m@footnote@spacing}%
13620 \reset@font\RTLfoottextfont
13621 \hsize\columnwidth \@parboxrestore
13622 \protected@edef\@currentlabel{%

```



```

13623 \csname p@mpfootnote\endcsname\@thefnmark}%
13624 \color@begingroup
13625 \@sixcolRTLfootfmt{#1}%
13626 \color@endgroup}%
13627 \m@mmf@prepare}
13628 \bidi@ensure@newcommand{\m@make@sixcol@footgroup}[1]{%
13629 \@namedef{\@sixcol@footgroup#1}{%
13630 \def\baselinestretch{\m@m@footnote@spacing}%
13631 \hsize\bidi@columnwidth
13632 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13633 \m@r@rigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}}
13634 \newcommand{\bidi@make@sixcol@LTRfootgroup}[1]{%
13635 \@namedef{\@sixcol@LTRfootgroup#1}{%
13636 \def\baselinestretch{\m@m@footnote@spacing}%
13637 \hsize\bidi@columnwidth
13638 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13639 \bidi@LTR@rigidbalance{\@nameuse{footins#1}}{6}{\splittopskip}}}}
13640 \bidi@ensure@newcommand{\m@make@mpsixcol@footgroup}[1]{%
13641 \@namedef{\@mpsixcol@footgroup#1}{%
13642 \def\baselinestretch{\m@m@footnote@spacing}%
13643 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13644 \m@r@rigidbalance{\@nameuse{\@mpfootins#1}}{6}{\splittopskip}}}}
13645 \newcommand{\bidi@make@mpsixcol@LTRfootgroup}[1]{%
13646 \@namedef{\@mpsixcol@LTRfootgroup#1}{%
13647 \def\baselinestretch{\m@m@footnote@spacing}%
13648 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13649 \bidi@LTR@rigidbalance{\@nameuse{\@mpfootins#1}}{6}{\splittopskip}}}}
13650 \bidi@ensure@newcommand{\sevendcolumnfootnotes}{%
13651 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
13652 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13653 \@bidi@before@Hy@hyperfootnotes
13654 \let\@footnotetext\@sevendcolfootnotetext
13655 \let\@LTRfootnotetext\@sevendcolLTRfootnotetext
13656 \let\@RTLfootnotetext\@sevendcolRTLfootnotetext
13657 \dimen\footinsv@r=7\footinsdim
13658 \count\footinsv@r=142\relax
13659 \m@make@sevendcol@footgroup{v@r}%
13660 \let\@footgroupv@r\@sevendcol@footgroupv@r
13661 \dimen\footinsv@l=7\footinsdim
13662 \count\footinsv@l=142\relax
13663 \bidi@make@sevendcol@LTRfootgroup{v@l}%
13664 \let\@LTRfootgroupv@l\@sevendcol@LTRfootgroupv@l
13665 \let\@mpfootnotetext\@mpsevendcolfootnotetext
13666 \let\@mpLTRfootnotetext\@mpsevendcolLTRfootnotetext
13667 \let\@mpRTLfootnotetext\@mpsevendcolRTLfootnotetext
13668 \@bidi@after@Hy@hyperfootnotes
13669 \m@make@mpsevendcol@footgroup{v@r}%
13670 \let\mp@footgroupv@r\@mpsevendcol@footgroupv@r
13671 \bidi@make@mpsevendcol@LTRfootgroup{v@l}%
13672 \let\mp@LTRfootgroupv@l\@mpsevendcol@LTRfootgroupv@l
13673 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13674 }
13675 \newcommand{\SevenColumnFootnotes}{%
13676 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]

```



```

13677 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
13678 \@bidi@before@Hy@hyperfootnotes
13679 \let\@footnotetext\@SevenColfootnotetext
13680 \let\@LTRfootnotetext\@SevenColLTRfootnotetext
13681 \let\@RTLfootnotetext\@SevenColRTLfootnotetext
13682 \dimen\footinsv@r=7\footinsdim
13683 \count\footinsv@r=142\relax
13684 \m@make@sevenscol@footgroup{v@r}%
13685 \let\@footgroupv@r\@sevenscol@footgroupv@r
13686 \dimen\footinsv@l=7\footinsdim
13687 \count\footinsv@l=142\relax
13688 \bidi@make@sevenscol@LTRfootgroup{v@l}%
13689 \let\@LTRfootgroupv@l\@sevenscol@LTRfootgroupv@l
13690 \let\@mpfootnotetext\@mpSevenColfootnotetext
13691 \let\@mpLTRfootnotetext\@mpSevenColLTRfootnotetext
13692 \let\@mpRTLfootnotetext\@mpSevenColRTLfootnotetext
13693 \@bidi@after@Hy@hyperfootnotes
13694 \m@make@mpsevenscol@footgroup{v@r}%
13695 \let\mp@footgroupv@r\@mpsevenscol@footgroupv@r
13696 \bidi@make@mpsevenscol@LTRfootgroup{v@l}%
13697 \let\mp@LTRfootgroupv@l\@mpsevenscol@LTRfootgroupv@l
13698 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13699 }
13700 \bidi@ensure@newcommand{\@sevenscolfootnotetext}[1]{\insert
13701   \if@RTL@footnote
13702     \footinsv@r
13703   \else
13704     \footinsv@l
13705   \fi
13706 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
13707   \def\baselinestretch{\m@f@footnote@spacing}%
13708   \reset@font\foottextfont
13709   \@preamfntext
13710   \protected@edef\@currentlabel{%
13711     \csname p@footnote\endcsname\@thefnmark}%
13712   \color@begingroup
13713     \@sevenscolfootfmt{#1}%
13714   \color@endgroup}%
13715   \m@mmf@prepare}
13716 \newcommand{\@SevenColfootnotetext}[1]{%
13717   \bidi@step@absolute@footnote@count
13718   \if@RTL@footnote
13719     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13720   \else
13721     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13722   \fi
13723   \global\setbox
13724   \if@RTL@footnote
13725     \footinsv@r
13726   \else
13727     \footinsv@l
13728   \fi
13729   \vbox{%
13730     \unvbox

```





```

13731 \if@RTL@footnote
13732 \footinsv@r
13733 \else
13734 \footinsv@l
13735 \fi
13736 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13737 \def\baselinestretch{\m@m@footnote@spacing}%
13738 \reset@font\foottextfont
13739 \@preamfntext
13740 \protected@edef\@currentlabel{%
13741 \csname p@footnote\endcsname\@thefnmark}%
13742 \color@begingroup
13743 \sevenscolfootfmt{#1}%
13744 \color@endgroup}%
13745 \m@m@mmf@prepare
13746 \if@RTL@footnote
13747 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13748 \else
13749 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13750 \fi
13751 }
13752 \bidi@ensure@newcommand{\@sevenscolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
13753 \def\baselinestretch{\m@m@footnote@spacing}%
13754 \reset@font\LTRfoottextfont
13755 \@preamfntext
13756 \protected@edef\@currentlabel{%
13757 \csname p@footnote\endcsname\@thefnmark}%
13758 \color@begingroup
13759 \sevenscolLTRfootfmt{#1}%
13760 \color@endgroup}%
13761 \m@m@mmf@prepare}
13762 \newcommand{\@SevenCollTRfootnotetext}[1]{%
13763 \bidi@step@absolute@footnote@count
13764 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
13765 \global\setbox\footinsv@l\vbox{%
13766 \unvbox\footinsv@l
13767 \@RTLfalse
13768 \def\baselinestretch{\m@m@footnote@spacing}%
13769 \reset@font\LTRfoottextfont
13770 \@preamfntext
13771 \protected@edef\@currentlabel{%
13772 \csname p@footnote\endcsname\@thefnmark}%
13773 \color@begingroup
13774 \sevenscolLTRfootfmt{#1}%
13775 \color@endgroup}%
13776 \m@m@mmf@prepare
13777 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13778 }
13779 \bidi@ensure@newcommand{\@sevenscolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
13780 \def\baselinestretch{\m@m@footnote@spacing}%
13781 \reset@font\RTLfoottextfont
13782 \@preamfntext
13783 \protected@edef\@currentlabel{%
13784 \csname p@footnote\endcsname\@thefnmark}%

```



```

13785 \color@begingroup
13786 \sevenscolRTLfootfmt{#1}%
13787 \color@endgroup}%
13788 \m@mmf@prepare}
13789 \newcommand{\@SevenColRTLfootnotetext}[1]{%
13790 \bidi@step@absolutefootnote@count
13791 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
13792 \global\setbox\footinsv@r\vbox{%
13793 \unvbox\footinsv@r
13794 \@RTLtrue
13795 \def\baselinestretch{\m@m@footnote@spacing}%
13796 \reset@font\RTLfoottextfont
13797 \@preamfntext
13798 \protected@edef\@currentlabel{%
13799 \csname p@footnote\endcsname\@thefnmark}%
13800 \color@begingroup
13801 \sevenscolRTLfootfmt{#1}%
13802 \color@endgroup}%
13803 \m@mmf@prepare
13804 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
13805 }
13806 \bidi@ensure@newcommand{\@preamsevenfmt}{%
13807 \hspace{.142\hspace}
13808 \parindent=\z@
13809 \tolerance=5000\relax
13810 \leavevmode}
13811 \bidi@ensure@newcommand{\@sevenscolfootfmt}[1]{%
13812 \@preamsevenfmt
13813 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
13814 \bidi@ensure@newcommand{\@sevenscolLTRfootfmt}[1]{%
13815 \@preamsevenfmt
13816 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
13817 \bidi@ensure@newcommand{\@sevenscolRTLfootfmt}[1]{%
13818 \@preamsevenfmt
13819 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
13820 \bidi@ensure@newcommand{\@mpsevencolfootnotetext}[1]{%
13821 \global\setbox
13822 \if@RTL@footnote
13823 \@mpfootinsv@r
13824 \else
13825 \@mpfootinsv@l
13826 \fi
13827 \vbox{%
13828 \unvbox
13829 \if@RTL@footnote
13830 \@mpfootinsv@r
13831 \else
13832 \@mpfootinsv@l
13833 \fi
13834 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13835 \def\baselinestretch{\m@m@footnote@spacing}%
13836 \reset@font\foottextfont
13837 \hspace\columnwidth \@parboxrestore
13838 \protected@edef\@currentlabel{%

```



```

13839      \csname p@mpfootnote\endcsname\@thefnmark}%
13840      \color@begingroup
13841      \@sevenscolfootfmt{#1}%
13842      \color@endgroup}%
13843      \m@mmf@prepare}
13844 \newcommand{\@mpSevenColfootnotetext}[1]{%
13845     \if@RTL@footnote
13846     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13847     \else
13848     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13849     \fi
13850     \global\setbox
13851     \if@RTL@footnote
13852     \@mpfootinsv@r
13853     \else
13854     \@mpfootinsv@l
13855     \fi
13856     \vbox{%
13857     \unvbox
13858     \if@RTL@footnote
13859     \@mpfootinsv@r
13860     \else
13861     \@mpfootinsv@l
13862     \fi
13863     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
13864     \def\baselinestretch{\m@m@footnote@spacing}%
13865     \reset@font\foottextfont
13866     \hsize\columnwidth \@parboxrestore
13867     \protected@edef\@currentlabel{%
13868     \csname p@mpfootnote\endcsname\@thefnmark}%
13869     \color@begingroup
13870     \@sevenscolfootfmt{#1}%
13871     \color@endgroup}%
13872     \m@mmf@prepare}
13873 \bidi@ensure@newcommand{\@mpsevenscolLTRfootnotetext}[1]{%
13874     \global\setbox\@mpfootinsv@l\vbox{%
13875     \unvbox\@mpfootinsv@l
13876     \@RTLfalse
13877     \def\baselinestretch{\m@m@footnote@spacing}%
13878     \reset@font\LTRfoottextfont
13879     \hsize\columnwidth \@parboxrestore
13880     \protected@edef\@currentlabel{%
13881     \csname p@mpfootnote\endcsname\@thefnmark}%
13882     \color@begingroup
13883     \@sevenscolLTRfootfmt{#1}%
13884     \color@endgroup}%
13885     \m@mmf@prepare}
13886 \newcommand{\@mpSevenColLTRfootnotetext}[1]{%
13887     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
13888     \global\setbox\@mpfootinsv@l\vbox{%
13889     \unvbox\@mpfootinsv@l
13890     \@RTLfalse
13891     \def\baselinestretch{\m@m@footnote@spacing}%
13892     \reset@font\LTRfoottextfont

```



```

13893 \hsize\columnwidth \@parboxrestore
13894 \protected@edef\@currentlabel{%
13895 \csname p@mpfootnote\endcsname\@thefnmark}%
13896 \color@begingroup
13897 \sevenscolLTRfootfmt{#1}%
13898 \color@endgroup}%
13899 \m@m@mmf@prepare}
13900 \bidi@ensure@newcommand{\@mpsevencolRTLfootnotetext}[1]{%
13901 \global\setbox\@mpfootinsv@r\vbox{%
13902 \unvbox\@mpfootinsv@r
13903 \@RTLtrue
13904 \def\baselinestretch{\m@m@footnote@spacing}%
13905 \reset@font\RTLfoottextfont
13906 \hsize\columnwidth \@parboxrestore
13907 \protected@edef\@currentlabel{%
13908 \csname p@mpfootnote\endcsname\@thefnmark}%
13909 \color@begingroup
13910 \sevenscolRTLfootfmt{#1}%
13911 \color@endgroup}%
13912 \m@m@mmf@prepare}
13913 \newcommand{\@mpSevenColRTLfootnotetext}[1]{%
13914 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
13915 \global\setbox\@mpfootinsv@r\vbox{%
13916 \unvbox\@mpfootinsv@r
13917 \@RTLtrue
13918 \def\baselinestretch{\m@m@footnote@spacing}%
13919 \reset@font\RTLfoottextfont
13920 \hsize\columnwidth \@parboxrestore
13921 \protected@edef\@currentlabel{%
13922 \csname p@mpfootnote\endcsname\@thefnmark}%
13923 \color@begingroup
13924 \sevenscolRTLfootfmt{#1}%
13925 \color@endgroup}%
13926 \m@m@mmf@prepare}
13927 \bidi@ensure@newcommand{\m@make@sevenscol@footgroup}[1]{%
13928 \@namedef{@sevenscol@footgroup#1}{%
13929 \def\baselinestretch{\m@m@footnote@spacing}%
13930 \hsize\bidi@columnwidth
13931 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13932 \m@m@rigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}
13933 \newcommand{\bidi@make@sevenscol@LTRfootgroup}[1]{%
13934 \@namedef{@sevenscol@LTRfootgroup#1}{%
13935 \def\baselinestretch{\m@m@footnote@spacing}%
13936 \hsize\bidi@columnwidth
13937 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13938 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{7}{\splittopskip}}}}
13939 \bidi@ensure@newcommand{\m@make@mpsevencol@footgroup}[1]{%
13940 \@namedef{@mpsevencol@footgroup#1}{%
13941 \def\baselinestretch{\m@m@footnote@spacing}%
13942 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13943 \m@m@rigidbalance{\@nameuse{@mpfootins#1}}{7}{\splittopskip}}}}
13944 \newcommand{\bidi@make@mpsevencol@LTRfootgroup}[1]{%
13945 \@namedef{@mpsevencol@LTRfootgroup#1}{%
13946 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

13947 \nameuse{foottextfont#1} \splittopskip=\ht\strutbox
13948 \bidi@LTRrigidbalance{\nameuse{mpfootins#1}}{7}{\splittopskip}}
13949 \bidi@ensure@newcommand{\eightcolumnfootnotes}{%
13950 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
13951 \namedef{foottextfontv@l}{\LTRfoottextfont}%
13952 \bidi@before@Hy@hyperfootnotes
13953 \let\@footnotetext\@eightcolfootnotetext
13954 \let\@LTRfootnotetext\@eightcolLTRfootnotetext
13955 \let\@RTLfootnotetext\@eightcolRTLfootnotetext
13956 \dimen\footinsv@r=8\footinsdim
13957 \count\footinsv@r=125\relax
13958 \m@make@eightcol@footgroup{v@r}%
13959 \let\@footgroupv@r\@eightcol@footgroupv@r
13960 \dimen\footinsv@l=8\footinsdim
13961 \count\footinsv@l=125\relax
13962 \bidi@make@eightcol@LTRfootgroup{v@l}%
13963 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
13964 \let\@mpfootnotetext\@mpeightcolfootnotetext
13965 \let\@mpLTRfootnotetext\@mpeightcolLTRfootnotetext
13966 \let\@mpRTLfootnotetext\@mpeightcolRTLfootnotetext
13967 \bidi@after@Hy@hyperfootnotes
13968 \m@make@mpeightcol@footgroup{v@r}%
13969 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
13970 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
13971 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
13972 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13973 }
13974 \newcommand{\EightColumnFootnotes}{%
13975 \namedef{foottextfontv@r}{\foottextfont}% % [RS]
13976 \namedef{foottextfontv@l}{\LTRfoottextfont}%
13977 \bidi@before@Hy@hyperfootnotes
13978 \let\@footnotetext\@EightColfootnotetext
13979 \let\@LTRfootnotetext\@EightColLTRfootnotetext
13980 \let\@RTLfootnotetext\@EightColRTLfootnotetext
13981 \dimen\footinsv@r=8\footinsdim
13982 \count\footinsv@r=125\relax
13983 \m@make@eightcol@footgroup{v@r}%
13984 \let\@footgroupv@r\@eightcol@footgroupv@r
13985 \dimen\footinsv@l=8\footinsdim
13986 \count\footinsv@l=125\relax
13987 \bidi@make@eightcol@LTRfootgroup{v@l}%
13988 \let\@LTRfootgroupv@l\@eightcol@LTRfootgroupv@l
13989 \let\@mpfootnotetext\@mpEightColfootnotetext
13990 \let\@mpLTRfootnotetext\@mpEightColLTRfootnotetext
13991 \let\@mpRTLfootnotetext\@mpEightColRTLfootnotetext
13992 \bidi@after@Hy@hyperfootnotes
13993 \m@make@mpeightcol@footgroup{v@r}%
13994 \let\mp@footgroupv@r\@mpeightcol@footgroupv@r
13995 \bidi@make@mpeightcol@LTRfootgroup{v@l}%
13996 \let\mp@LTRfootgroupv@l\@mpeightcol@LTRfootgroupv@l
13997 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
13998 }
13999 \bidi@ensure@newcommand{\@eightcolfootnotetext}[1]{\insert
14000 \if@RTL@footnote

```



```

14001 \footinsv@r
14002 \else
14003 \footinsv@l
14004 \fi
14005 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14006 \def\baselinestretch{\m@m@footnote@spacing}%
14007 \reset@font\foottextfont
14008 \@preamfntext
14009 \protected@edef\@currentlabel{%
14010 \csname p@footnote\endcsname\@thefnmark}%
14011 \color@begingroup
14012 \@eightcolfootfmt{#1}%
14013 \color@endgroup}%
14014 \m@mmf@prepare}
14015 \newcommand{\@EightColfootnotetext}[1]{%
14016 \bidi@step@absolute@footnote@count
14017 \if@RTL@footnote
14018 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14019 \else
14020 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14021 \fi
14022 \global\setbox
14023 \if@RTL@footnote
14024 \footinsv@r
14025 \else
14026 \footinsv@l
14027 \fi
14028 \vbox{%
14029 \unvbox
14030 \if@RTL@footnote
14031 \footinsv@r
14032 \else
14033 \footinsv@l
14034 \fi
14035 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14036 \def\baselinestretch{\m@m@footnote@spacing}%
14037 \reset@font\foottextfont
14038 \@preamfntext
14039 \protected@edef\@currentlabel{%
14040 \csname p@footnote\endcsname\@thefnmark}%
14041 \color@begingroup
14042 \@eightcolfootfmt{#1}%
14043 \color@endgroup}%
14044 \m@mmf@prepare
14045 \if@RTL@footnote
14046 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14047 \else
14048 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14049 \fi
14050 }
14051 \bidi@ensure@newcommand{\@eightcolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14052 \def\baselinestretch{\m@m@footnote@spacing}%
14053 \reset@font\LTRfoottextfont
14054 \@preamfntext

```



```

14055 \protected@edef\@currentlabel{%
14056   \csname p@footnote\endcsname\@thefnmark}%
14057 \color@begingroup
14058   \@eightcolLTRfootfmt{#1}%
14059 \color@endgroup}%
14060 \m@mmf@prepare}
14061 \newcommand{\@EightColLTRfootnotetext}[1]{%
14062   \bidi@step@absolute@footnote@count
14063   \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14064   \global\setbox\footinsv@l\vbox{%
14065     \unvbox\footinsv@l
14066     \@RTLfalse
14067     \def\baselinestretch{\m@mm@footnote@spacing}%
14068     \reset@font\LTRfoottextfont
14069     \@preamfntext
14070     \protected@edef\@currentlabel{%
14071       \csname p@footnote\endcsname\@thefnmark}%
14072     \color@begingroup
14073       \@eightcolLTRfootfmt{#1}%
14074     \color@endgroup}%
14075     \m@mmf@prepare
14076     \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14077   }
14078   \bidi@ensure@newcommand{\@eightcolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14079     \def\baselinestretch{\m@mm@footnote@spacing}%
14080     \reset@font\RTLfoottextfont
14081     \@preamfntext
14082     \protected@edef\@currentlabel{%
14083       \csname p@footnote\endcsname\@thefnmark}%
14084     \color@begingroup
14085       \@eightcolRTLfootfmt{#1}%
14086     \color@endgroup}%
14087     \m@mmf@prepare}
14088   \newcommand{\@EightColRTLfootnotetext}[1]{%
14089     \bidi@step@absolute@footnote@count
14090     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14091     \global\setbox\footinsv@r\vbox{%
14092       \unvbox\footinsv@r
14093       \@RTLtrue%
14094       \def\baselinestretch{\m@mm@footnote@spacing}%
14095       \reset@font\RTLfoottextfont
14096       \@preamfntext
14097       \protected@edef\@currentlabel{%
14098         \csname p@footnote\endcsname\@thefnmark}%
14099       \color@begingroup
14100         \@eightcolRTLfootfmt{#1}%
14101       \color@endgroup}%
14102       \m@mmf@prepare
14103       \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14104   }
14105   \bidi@ensure@newcommand{\@preameightfmt}{%
14106     \hspace{.125\hspace}
14107     \parindent=\z@
14108     \tolerance=5000\relax

```



```

14109 \leavevmode}
14110 \bidi@ensure@newcommand{\@eightcolfootfmt}[1]{%
14111 \@preameightfmt
14112 {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14113 \bidi@ensure@newcommand{\@eightcolLTRfootfmt}[1]{%
14114 \@preameightfmt
14115 {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14116 \bidi@ensure@newcommand{\@eightcolRTLfootfmt}[1]{%
14117 \@preameightfmt
14118 {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14119 \bidi@ensure@newcommand{\@mpeightcolfootnotetext}[1]{%
14120 \global\setbox
14121 \if@RTL@footnote
14122 \@mpfootinsv@r
14123 \else
14124 \@mpfootinsv@l
14125 \fi
14126 \vbox{%
14127 \unvbox
14128 \if@RTL@footnote
14129 \@mpfootinsv@r
14130 \else
14131 \@mpfootinsv@l
14132 \fi
14133 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14134 \def\baselinestretch{\m@m@footnote@spacing}%
14135 \reset@font\foottextfont
14136 \hsize\columnwidth \@parboxrestore
14137 \protected@edef\@currentlabel{%
14138 \csname p@mpfootnote\endcsname\@thefnmark}%
14139 \color@begingroup
14140 \@eightcolfootfmt{#1}%
14141 \color@endgroup}%
14142 \m@m@mmf@prepare}
14143 \newcommand{\@mpEightColfootnotetext}[1]{%
14144 \if@RTL@footnote
14145 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14146 \else
14147 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14148 \fi
14149 \global\setbox
14150 \if@RTL@footnote
14151 \@mpfootinsv@r
14152 \else
14153 \@mpfootinsv@l
14154 \fi
14155 \vbox{%
14156 \unvbox
14157 \if@RTL@footnote
14158 \@mpfootinsv@r
14159 \else
14160 \@mpfootinsv@l
14161 \fi
14162 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi

```





```

14163 \def\baselinestretch{\m@m@footnote@spacing}%
14164 \reset@font\foottextfont
14165 \hsize\columnwidth \@parboxrestore
14166 \protected@edef\@currentlabel{%
14167 \csname p@mpfootnote\endcsname\@thefnmark}%
14168 \color@begingroup
14169 \@eightcolfootfmt{#1}%
14170 \color@endgroup}%
14171 \m@m@mmf@prepare}
14172 \bidi@ensure@newcommand{\@mp@eightcolLTRfootnotetext}[1]{%
14173 \global\setbox\@mpfootinsv@l\vbox{%
14174 \unvbox\@mpfootinsv@l
14175 \@RTLfalse
14176 \def\baselinestretch{\m@m@footnote@spacing}%
14177 \reset@font\LTRfoottextfont
14178 \hsize\columnwidth \@parboxrestore
14179 \protected@edef\@currentlabel{%
14180 \csname p@mpfootnote\endcsname\@thefnmark}%
14181 \color@begingroup
14182 \@eightcolLTRfootfmt{#1}%
14183 \color@endgroup}%
14184 \m@m@mmf@prepare}
14185 \newcommand{\@mp@EightColLTRfootnotetext}[1]{%
14186 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14187 \global\setbox\@mpfootinsv@l\vbox{%
14188 \unvbox\@mpfootinsv@l
14189 \@RTLfalse
14190 \def\baselinestretch{\m@m@footnote@spacing}%
14191 \reset@font\LTRfoottextfont
14192 \hsize\columnwidth \@parboxrestore
14193 \protected@edef\@currentlabel{%
14194 \csname p@mpfootnote\endcsname\@thefnmark}%
14195 \color@begingroup
14196 \@eightcolLTRfootfmt{#1}%
14197 \color@endgroup}%
14198 \m@m@mmf@prepare}
14199 \bidi@ensure@newcommand{\@mp@eightcolRTLfootnotetext}[1]{%
14200 \global\setbox\@mpfootinsv@r\vbox{%
14201 \unvbox\@mpfootinsv@r
14202 \@RTLtrue
14203 \def\baselinestretch{\m@m@footnote@spacing}%
14204 \reset@font\RTLfoottextfont
14205 \hsize\columnwidth \@parboxrestore
14206 \protected@edef\@currentlabel{%
14207 \csname p@mpfootnote\endcsname\@thefnmark}%
14208 \color@begingroup
14209 \@eightcolRTLfootfmt{#1}%
14210 \color@endgroup}%
14211 \m@m@mmf@prepare}
14212 \newcommand{\@mp@EightColRTLfootnotetext}[1]{%
14213 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14214 \global\setbox\@mpfootinsv@r\vbox{%
14215 \unvbox\@mpfootinsv@r
14216 \@RTLtrue

```



```

14217 \def\baselinestretch{\m@m@footnote@spacing}%
14218 \reset@font\RTLfoottextfont
14219 \hsize\columnwidth \@parboxrestore
14220 \protected@edef\@currentlabel{%
14221 \csname p@mpfootnote\endcsname\@thefnmark}%
14222 \color@begingroup
14223 \@eightcolRTLfootfmt{#1}%
14224 \color@endgroup}%
14225 \m@m@prepare}
14226 \bidi@ensure@newcommand{\m@make@eightcol@footgroup}[1]{%
14227 \@namedef{@eightcol@footgroup#1}{%
14228 \def\baselinestretch{\m@m@footnote@spacing}%
14229 \hsize\bidi@columnwidth
14230 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14231 \m@m@rigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}}
14232 \newcommand{\bidi@make@eightcol@LTRfootgroup}[1]{%
14233 \@namedef{@eightcol@LTRfootgroup#1}{%
14234 \def\baselinestretch{\m@m@footnote@spacing}%
14235 \hsize\bidi@columnwidth
14236 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14237 \bidi@LTRrigidbalance{\@nameuse{footins#1}}{8}{\splittopskip}}}}
14238 \bidi@ensure@newcommand{\m@make@mpeightcol@footgroup}[1]{%
14239 \@namedef{@mpeightcol@footgroup#1}{%
14240 \def\baselinestretch{\m@m@footnote@spacing}%
14241 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14242 \m@m@rigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}}}
14243 \newcommand{\bidi@make@mpeightcol@LTRfootgroup}[1]{%
14244 \@namedef{@mpeightcol@LTRfootgroup#1}{%
14245 \def\baselinestretch{\m@m@footnote@spacing}%
14246 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14247 \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{8}{\splittopskip}}}}
14248 \bidi@ensure@newcommand{\ninelcolumnfootnotes}{%
14249 \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14250 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14251 \@bidi@before@Hy@hyperfootnotes
14252 \let\@footnotetext\@ninelcolfootnotetext
14253 \let\@LTRfootnotetext\@ninelcolLTRfootnotetext
14254 \let\@RTLfootnotetext\@ninelcolRTLfootnotetext
14255 \dimen\footinsv@r=9\footinsdim
14256 \count\footinsv@r=111\relax
14257 \m@make@ninelcol@footgroup{v@r}%
14258 \let\@footgroupv@r\@ninelcol@footgroupv@r
14259 \dimen\footinsv@l=9\footinsdim
14260 \count\footinsv@l=111\relax
14261 \bidi@make@ninelcol@LTRfootgroup{v@l}%
14262 \let\@LTRfootgroupv@l\@ninelcol@LTRfootgroupv@l
14263 \let\@mpfootnotetext\@mpninelcolfootnotetext
14264 \let\@mpLTRfootnotetext\@mpninelcolLTRfootnotetext
14265 \let\@mpRTLfootnotetext\@mpninelcolRTLfootnotetext
14266 \@bidi@after@Hy@hyperfootnotes
14267 \m@make@mpninelcol@footgroup{v@r}%
14268 \let\mp@footgroupv@r\@mpninelcol@footgroupv@r
14269 \bidi@make@mpninelcol@LTRfootgroup{v@l}%
14270 \let\mp@LTRfootgroupv@l\@mpninelcol@LTRfootgroupv@l

```



```

14271 \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
14272 }
14273 \newcommand{\@NineColumnFootnotes}{%
14274   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14275   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14276   \@bidi@before@Hy@hyperfootnotes
14277   \let\@footnotetext\@NineColfootnotetext
14278   \let\@LTRfootnotetext\@NineColLTRfootnotetext
14279   \let\@RTLfootnotetext\@NineColRTLfootnotetext
14280   \dimen\footinsv@r=9\footinsdim
14281   \count\footinsv@r=111\relax
14282   \m@make@ninelcol@footgroup{v@r}%
14283   \let\@footgroupv@r\@ninelcol@footgroupv@r
14284   \dimen\footinsv@l=9\footinsdim
14285   \count\footinsv@l=111\relax
14286   \bidi@make@ninelcol@LTRfootgroup{v@l}%
14287   \let\@LTRfootgroupv@l\@ninelcol@LTRfootgroupv@l
14288   \let\@mpfootnotetext\@mpNineColfootnotetext
14289   \let\@mpLTRfootnotetext\@mpNineColLTRfootnotetext
14290   \let\@mpRTLfootnotetext\@mpNineColRTLfootnotetext
14291   \@bidi@after@Hy@hyperfootnotes
14292   \m@make@mpninelcol@footgroup{v@r}%
14293   \let\mp@footgroupv@r\@mpninelcol@footgroupv@r
14294   \bidi@make@mpninelcol@LTRfootgroup{v@l}%
14295   \let\mp@LTRfootgroupv@l\@mpninelcol@LTRfootgroupv@l
14296   \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
14297 }
14298 \bidi@ensure@newcommand{\@ninelcolfootnotetext}[1]{\insert
14299   \if@RTL@footnote
14300     \footinsv@r
14301   \else
14302     \footinsv@l
14303   \fi
14304 { \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14305   \def\baselinestretch{\m@footnote@spacing}%
14306   \reset@font\foottextfont
14307   \@preamfntext
14308   \protected@edef\@currentlabel{%
14309     \csname p@footnote\endcsname\@thefnmark}%
14310   \color@begingroup
14311     \@ninelcolfootfmt{#1}%
14312   \color@endgroup}%
14313   \m@mmf@prepare}
14314 \newcommand{\@NineColfootnotetext}[1]{%
14315   \bidi@step@absolute@footnote@count
14316   \if@RTL@footnote
14317     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14318   \else
14319     \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14320   \fi
14321   \global\setbox
14322   \if@RTL@footnote
14323     \footinsv@r
14324   \else

```



```

14325 \footinsv@l
14326 \fi
14327 \vbox{%
14328 \unvbox
14329 \if@RTL@footnote
14330 \footinsv@r
14331 \else
14332 \footinsv@l
14333 \fi
14334 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14335 \def\baselinestretch{\m@m@footnote@spacing}%
14336 \reset@font\foottextfont
14337 \@preamfntext
14338 \protected@edef\@currentlabel{%
14339 \csname p@footnote\endcsname\@thefnmark}%
14340 \color@begingroup
14341 \@ninecolfootfmt{#1}%
14342 \color@endgroup}%
14343 \m@m@mmf@prepare
14344 \if@RTL@footnote
14345 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14346 \else
14347 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14348 \fi
14349 }
14350 \bidi@ensure@newcommand{\@ninecolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14351 \def\baselinestretch{\m@m@footnote@spacing}%
14352 \reset@font\LTRfoottextfont
14353 \@preamfntext
14354 \protected@edef\@currentlabel{%
14355 \csname p@footnote\endcsname\@thefnmark}%
14356 \color@begingroup
14357 \@ninecolLTRfootfmt{#1}%
14358 \color@endgroup}%
14359 \m@m@mmf@prepare}
14360 \newcommand{\@NineColLTRfootnotetext}[1]{%
14361 \bidi@step@absolutefootnote@count
14362 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14363 \global\setbox\footinsv@l\vbox{%
14364 \unvbox\footinsv@l
14365 \@RTLfalse
14366 \def\baselinestretch{\m@m@footnote@spacing}%
14367 \reset@font\LTRfoottextfont
14368 \@preamfntext
14369 \protected@edef\@currentlabel{%
14370 \csname p@footnote\endcsname\@thefnmark}%
14371 \color@begingroup
14372 \@ninecolLTRfootfmt{#1}%
14373 \color@endgroup}%
14374 \m@m@mmf@prepare
14375 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14376 }
14377 \bidi@ensure@newcommand{\@ninecolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14378 \def\baselinestretch{\m@m@footnote@spacing}%

```



```

14379 \reset@font\RTLfoottextfont
14380 \@preamfntext
14381 \protected@edef\@currentlabel{%
14382     \csname p@footnote\endcsname\@thefnmark}%
14383 \color@begingroup
14384     \@ninecolRTLfootfmt{#1}%
14385 \color@endgroup}%
14386 \m@mmf@prepare}
14387 \newcommand{\@NineColRTLfootnotetext}[1]{%
14388     \bidi@step@absolute@footnote@count
14389     \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14390     \global\setbox\footinsv@r\vbox{%
14391         \unvbox\footinsv@r
14392         \@RTLtrue
14393         \def\baselinestretch{\m@m@footnote@spacing}%
14394         \reset@font\RTLfoottextfont
14395         \@preamfntext
14396         \protected@edef\@currentlabel{%
14397             \csname p@footnote\endcsname\@thefnmark}%
14398         \color@begingroup
14399             \@ninecolRTLfootfmt{#1}%
14400         \color@endgroup}%
14401         \m@mmf@prepare
14402         \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14403     }
14404     \bidi@ensure@newcommand{\@preamninefmt}{%
14405         \hspace{.1\hspace}
14406         \parindent=\z@
14407         \tolerance=5000\relax
14408         \leavevmode}
14409     \bidi@ensure@newcommand{\@ninecolfootfmt}[1]{%
14410         \@preamninefmt
14411         {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14412     \bidi@ensure@newcommand{\@ninecolLTRfootfmt}[1]{%
14413         \@preamninefmt
14414         {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14415     \bidi@ensure@newcommand{\@ninecolRTLfootfmt}[1]{%
14416         \@preamninefmt
14417         {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14418     \bidi@ensure@newcommand{\@mpninecolfootnotetext}[1]{%
14419         \global\setbox
14420             \if@RTL@footnote
14421             \@mpfootinsv@r
14422         \else
14423             \@mpfootinsv@l
14424         \fi
14425         \vbox{%
14426             \unvbox
14427             \if@RTL@footnote
14428             \@mpfootinsv@r
14429         \else
14430             \@mpfootinsv@l
14431         \fi
14432         \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi

```



```

14433 \def\baselinestretch{\m@m@footnote@spacing}%
14434 \reset@font\foottextfont
14435 \hsize\columnwidth \@parboxrestore
14436 \protected@edef\@currentlabel{%
14437 \csname p@mpfootnote\endcsname\@thefnmark}%
14438 \color@begingroup
14439 \@ninecolfootfmt{#1}%
14440 \color@endgroup}%
14441 \m@mmf@prepare}
14442 \newcommand{\@mpNineColfootnotetext}[1]{%
14443 \if@RTL@footnote
14444 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14445 \else
14446 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14447 \fi
14448 \global\setbox
14449 \if@RTL@footnote
14450 \@mpfootinsv@r
14451 \else
14452 \@mpfootinsv@l
14453 \fi
14454 \vbox{%
14455 \unvbox
14456 \if@RTL@footnote
14457 \@mpfootinsv@r
14458 \else
14459 \@mpfootinsv@l
14460 \fi
14461 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14462 \def\baselinestretch{\m@m@footnote@spacing}%
14463 \reset@font\foottextfont
14464 \hsize\columnwidth \@parboxrestore
14465 \protected@edef\@currentlabel{%
14466 \csname p@mpfootnote\endcsname\@thefnmark}%
14467 \color@begingroup
14468 \@ninecolfootfmt{#1}%
14469 \color@endgroup}%
14470 \m@mmf@prepare}
14471 \bidi@ensure@newcommand{\@mpninecollTRfootnotetext}[1]{%
14472 \global\setbox\@mpfootinsv@l\vbox{%
14473 \unvbox\@mpfootinsv@l
14474 \@RTLfalse
14475 \def\baselinestretch{\m@m@footnote@spacing}%
14476 \reset@font\LTRfoottextfont
14477 \hsize\columnwidth \@parboxrestore
14478 \protected@edef\@currentlabel{%
14479 \csname p@mpfootnote\endcsname\@thefnmark}%
14480 \color@begingroup
14481 \@ninecollTRfootfmt{#1}%
14482 \color@endgroup}%
14483 \m@mmf@prepare}
14484 \newcommand{\@mpNineCollTRfootnotetext}[1]{%
14485 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14486 \global\setbox\@mpfootinsv@l\vbox{%

```



```

14487 \unvbox\@mpfootinsv@l
14488 \@RTLfalse
14489 \def\baselinestretch{\m@m@footnote@spacing}%
14490 \reset@font\LTRfoottextfont
14491 \hsize\columnwidth \@parboxrestore
14492 \protected@edef\@currentlabel{%
14493 \csname p@mpfootnote\endcsname\@thefnmark}%
14494 \color@begingroup
14495 \@ninecolLTRfootfmt{#1}%
14496 \color@endgroup}%
14497 \m@mmf@prepare}
14498 \bidi@ensure@newcommand{\@mpninecolRTLfootnotetext}[1]{%
14499 \global\setbox\@mpfootinsv@r\vbox{%
14500 \unvbox\@mpfootinsv@r
14501 \@RTLtrue
14502 \def\baselinestretch{\m@m@footnote@spacing}%
14503 \reset@font\RTLfoottextfont
14504 \hsize\columnwidth \@parboxrestore
14505 \protected@edef\@currentlabel{%
14506 \csname p@mpfootnote\endcsname\@thefnmark}%
14507 \color@begingroup
14508 \@ninecolRTLfootfmt{#1}%
14509 \color@endgroup}%
14510 \m@mmf@prepare}
14511 \newcommand{\@mpNineColRTLfootnotetext}[1]{%
14512 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14513 \global\setbox\@mpfootinsv@r\vbox{%
14514 \unvbox\@mpfootinsv@r
14515 \@RTLtrue
14516 \def\baselinestretch{\m@m@footnote@spacing}%
14517 \reset@font\RTLfoottextfont
14518 \hsize\columnwidth \@parboxrestore
14519 \protected@edef\@currentlabel{%
14520 \csname p@mpfootnote\endcsname\@thefnmark}%
14521 \color@begingroup
14522 \@ninecolRTLfootfmt{#1}%
14523 \color@endgroup}%
14524 \m@mmf@prepare}
14525 \bidi@ensure@newcommand{\m@make@ninecol@footgroup}[1]{%
14526 \@namedef{\@ninecol@footgroup#1}{%
14527 \def\baselinestretch{\m@m@footnote@spacing}%
14528 \hsize\bidi@columnwidth
14529 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14530 \m@mrigidbodybalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
14531 \newcommand{\bidi@make@ninecol@LTRfootgroup}[1]{%
14532 \@namedef{\@ninecol@LTRfootgroup#1}{%
14533 \def\baselinestretch{\m@m@footnote@spacing}%
14534 \hsize\bidi@columnwidth
14535 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14536 \bidi@LTRigidbodybalance{\@nameuse{footins#1}}{9}{\splittopskip}}}}
14537 \bidi@ensure@newcommand{\m@make@mpninecol@footgroup}[1]{%
14538 \@namedef{\@mpninecol@footgroup#1}{%
14539 \def\baselinestretch{\m@m@footnote@spacing}%
14540 \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox

```



```

14541 \m@mrigidbalance{\@nameuse{\mpfootins#1}}{9}{\splittopskip}}
14542 \newcommand{\bidi@make@mpninelcol@LTRfootgroup}[1]{%
14543 \@namedef{\mpninelcol@LTRfootgroup#1}{%
14544 \def\baselinestretch{\m@mf@footnote@spacing}%
14545 \@nameuse{\foottextfont#1} \splittopskip=\ht\strutbox
14546 \bidi@LTRrigidbalance{\@nameuse{\mpfootins#1}}{9}{\splittopskip}}}
14547 \bidi@ensure@newcommand{\tencolumnfootnotes}{%
14548 \@namedef{\foottextfontv@r}{\foottextfont}% % [RS]
14549 \@namedef{\foottextfontv@l}{\LTRfoottextfont}%
14550 \@bidi@before@Hy@hyperfootnotes
14551 \let\@footnotetext\@tencolfootnotetext
14552 \let\@LTRfootnotetext\@tencolLTRfootnotetext
14553 \let\@RTLfootnotetext\@tencolRTLfootnotetext
14554 \dimen\footinsv@r=10\footinsdim
14555 \count\footinsv@r=100\relax
14556 \m@make@tencol@footgroup{v@r}%
14557 \let\@footgroupv@r\@tencol@footgroupv@r
14558 \dimen\footinsv@l=10\footinsdim
14559 \count\footinsv@l=100\relax
14560 \bidi@make@tencol@LTRfootgroup{v@l}%
14561 \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
14562 \let\@mpfootnotetext\@mptencolfootnotetext
14563 \let\@mpLTRfootnotetext\@mptencolLTRfootnotetext
14564 \let\@mpRTLfootnotetext\@mptencolRTLfootnotetext
14565 \@bidi@after@Hy@hyperfootnotes
14566 \m@make@mptencol@footgroup{v@r}%
14567 \let\mp@footgroupv@r\@mptencol@footgroupv@r
14568 \bidi@make@mptencol@LTRfootgroup{v@l}%
14569 \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l
14570 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14571 }
14572 \newcommand{\TenColumnFootnotes}{%
14573 \@namedef{\foottextfontv@r}{\foottextfont}% % [RS]
14574 \@namedef{\foottextfontv@l}{\LTRfoottextfont}%
14575 \@bidi@before@Hy@hyperfootnotes
14576 \let\@footnotetext\@TenColfootnotetext
14577 \let\@LTRfootnotetext\@TenColLTRfootnotetext
14578 \let\@RTLfootnotetext\@TenColRTLfootnotetext
14579 \dimen\footinsv@r=10\footinsdim
14580 \count\footinsv@r=100\relax
14581 \m@make@tencol@footgroup{v@r}%
14582 \let\@footgroupv@r\@tencol@footgroupv@r
14583 \dimen\footinsv@l=10\footinsdim
14584 \count\footinsv@l=100\relax
14585 \bidi@make@tencol@LTRfootgroup{v@l}%
14586 \let\@LTRfootgroupv@l\@tencol@LTRfootgroupv@l
14587 \let\@mpfootnotetext\@mpTenColfootnotetext
14588 \let\@mpLTRfootnotetext\@mpTenColLTRfootnotetext
14589 \let\@mpRTLfootnotetext\@mpTenColRTLfootnotetext
14590 \@bidi@after@Hy@hyperfootnotes
14591 \m@make@mptencol@footgroup{v@r}%
14592 \let\mp@footgroupv@r\@mptencol@footgroupv@r
14593 \bidi@make@mptencol@LTRfootgroup{v@l}%
14594 \let\mp@LTRfootgroupv@l\@mptencol@LTRfootgroupv@l

```





```

14595 \@ifstar\@bidi@star@footmarkwidth\@bidi@normal@footmarkwidth
14596 }
14597 \bidi@ensure@newcommand{\@tencolfootnotetext}[1]{\insert
14598 \if@RTL@footnote
14599 \footinsv@r
14600 \else
14601 \footinsv@l
14602 \fi
14603 {\if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi%
14604 \def\baselinestretch{\m@m@footnote@spacing}%
14605 \reset@font\foottextfont
14606 \@preamfntext
14607 \protected@edef\@currentlabel{%
14608 \csname p@footnote\endcsname\@thefnmark}%
14609 \color@begingroup
14610 \@tencolfootfmt{#1}%
14611 \color@endgroup}%
14612 \m@mmf@prepare}
14613 \newcommand{\@TenColfootnotetext}[1]{%
14614 \bidi@step@absolute@footnote@count
14615 \if@RTL@footnote
14616 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14617 \else
14618 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14619 \fi
14620 \global\setbox
14621 \if@RTL@footnote
14622 \footinsv@r
14623 \else
14624 \footinsv@l
14625 \fi
14626 \vbox{%
14627 \unvbox
14628 \if@RTL@footnote
14629 \footinsv@r
14630 \else
14631 \footinsv@l
14632 \fi
14633 \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14634 \def\baselinestretch{\m@m@footnote@spacing}%
14635 \reset@font\foottextfont
14636 \@preamfntext
14637 \protected@edef\@currentlabel{%
14638 \csname p@footnote\endcsname\@thefnmark}%
14639 \color@begingroup
14640 \@tencolfootfmt{#1}%
14641 \color@endgroup}%
14642 \m@mmf@prepare
14643 \if@RTL@footnote
14644 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14645 \else
14646 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14647 \fi
14648 }

```



```

14649 \bidi@ensure@newcommand{\@tencolLTRfootnotetext}[1]{\insert\footinsv@l{\@RTLfalse%
14650 \def\baselinestretch{\m@m@footnote@spacing}%
14651 \reset@font\LTRfoottextfont
14652 \@preamfntext
14653 \protected@edef\@currentlabel{%
14654 \csname p@footnote\endcsname\@thefnmark}%
14655 \color@begingroup
14656 \@tencolLTRfootfmt{#1}%
14657 \color@endgroup}%
14658 \m@mmf@prepare}
14659 \newcommand{\@TenColLTRfootnotetext}[1]{%
14660 \bidi@step@absolutefootnote@count
14661 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
14662 \global\setbox\footinsv@l\vbox{%
14663 \unvbox\footinsv@l
14664 \@RTLfalse%
14665 \def\baselinestretch{\m@m@footnote@spacing}%
14666 \reset@font\LTRfoottextfont
14667 \@preamfntext
14668 \protected@edef\@currentlabel{%
14669 \csname p@footnote\endcsname\@thefnmark}%
14670 \color@begingroup
14671 \@tencolLTRfootfmt{#1}%
14672 \color@endgroup}%
14673 \m@mmf@prepare
14674 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14675 }
14676 \bidi@ensure@newcommand{\@tencolRTLfootnotetext}[1]{\insert\footinsv@r{\@RTLtrue%
14677 \def\baselinestretch{\m@m@footnote@spacing}%
14678 \reset@font\RTLfoottextfont
14679 \@preamfntext
14680 \protected@edef\@currentlabel{%
14681 \csname p@footnote\endcsname\@thefnmark}%
14682 \color@begingroup
14683 \@tencolRTLfootfmt{#1}%
14684 \color@endgroup}%
14685 \m@mmf@prepare}
14686 \newcommand{\@TenColRTLfootnotetext}[1]{%
14687 \bidi@step@absolutefootnote@count
14688 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
14689 \global\setbox\footinsv@r\vbox{%
14690 \unvbox\footinsv@r
14691 \@RTLtrue
14692 \def\baselinestretch{\m@m@footnote@spacing}%
14693 \reset@font\RTLfoottextfont
14694 \@preamfntext
14695 \protected@edef\@currentlabel{%
14696 \csname p@footnote\endcsname\@thefnmark}%
14697 \color@begingroup
14698 \@tencolRTLfootfmt{#1}%
14699 \color@endgroup}%
14700 \m@mmf@prepare
14701 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
14702 }

```



```

14703 \bidi@ensure@newcommand{\@preamtenfmt}{%
14704   \hsize .1\hsize
14705   \parindent=\z@
14706   \tolerance=5000\relax
14707   \leavevmode}
14708 \bidi@ensure@newcommand{\@tencolfootfmt}[1]{%
14709   \@preamtenfmt
14710   {\footfootmark\strut {\foottextfont #1}\strut\par}\allowbreak}
14711 \bidi@ensure@newcommand{\@tencolLTRfootfmt}[1]{%
14712   \@preamtenfmt
14713   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\strut\par}\allowbreak}
14714 \bidi@ensure@newcommand{\@tencolRTLfootfmt}[1]{%
14715   \@preamtenfmt
14716   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\strut\par}\allowbreak}
14717 \bidi@ensure@newcommand{\@emptencolfootnotetext}[1]{%
14718   \global\setbox
14719     \if@RTL@footnote
14720     \@mpfootinsv@r
14721   \else
14722     \@mpfootinsv@l
14723   \fi
14724   \vbox{%
14725     \unvbox
14726     \if@RTL@footnote
14727     \@mpfootinsv@r
14728   \else
14729     \@mpfootinsv@l
14730   \fi
14731   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14732   \def\baselinestretch{\m@m@footnote@spacing}%
14733   \reset@font\foottextfont
14734   \hsize\columnwidth \@parboxrestore
14735   \protected@edef\@currentlabel{%
14736     \csname p@mpfootnote\endcsname\@thefnmark}%
14737   \color@begin@group
14738     \@tencolfootfmt{#1}%
14739   \color@end@group}%
14740   \m@mmf@prepare}
14741 \newcommand{\@mpTenColfootnotetext}[1]{%
14742   \if@RTL@footnote
14743     \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14744   \else
14745     \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14746   \fi
14747   \global\setbox
14748     \if@RTL@footnote
14749     \@mpfootinsv@r
14750   \else
14751     \@mpfootinsv@l
14752   \fi
14753   \vbox{%
14754     \unvbox
14755     \if@RTL@footnote
14756     \@mpfootinsv@r

```



```

14757 \else
14758   \@mpfootinsv@l
14759 \fi
14760   \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
14761   \def\baselinestretch{\m@m@footnote@spacing}%
14762   \reset@font\foottextfont
14763   \hsize\columnwidth \@parboxrestore
14764   \protected@edef\@currentlabel{%
14765     \csname p@mpfootnote\endcsname\@thefnmark}%
14766   \color@begingroup
14767     \@tencolfootfmt{#1}%
14768   \color@endgroup}%
14769   \m@m@m@prepare}
14770 \bidi@ensure@newcommand{\@mptencolLTRfootnotetext}[1]{%
14771   \global\setbox\@mpfootinsv@l\vbox{%
14772     \unvbox\@mpfootinsv@l
14773     \@RTLfalse
14774     \def\baselinestretch{\m@m@footnote@spacing}%
14775     \reset@font\LTRfoottextfont
14776     \hsize\columnwidth \@parboxrestore
14777     \protected@edef\@currentlabel{%
14778       \csname p@mpfootnote\endcsname\@thefnmark}%
14779     \color@begingroup
14780       \@tencolLTRfootfmt{#1}%
14781     \color@endgroup}%
14782     \m@m@m@prepare}
14783 \newcommand{\@mpTenColLTRfootnotetext}[1]{%
14784   \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
14785   \global\setbox\@mpfootinsv@l\vbox{%
14786     \unvbox\@mpfootinsv@l
14787     \@RTLfalse
14788     \def\baselinestretch{\m@m@footnote@spacing}%
14789     \reset@font\LTRfoottextfont
14790     \hsize\columnwidth \@parboxrestore
14791     \protected@edef\@currentlabel{%
14792       \csname p@mpfootnote\endcsname\@thefnmark}%
14793     \color@begingroup
14794       \@tencolLTRfootfmt{#1}%
14795     \color@endgroup}%
14796     \m@m@m@prepare}
14797 \bidi@ensure@newcommand{\@mptencolRTLfootnotetext}[1]{%
14798   \global\setbox\@mpfootinsv@r\vbox{%
14799     \unvbox\@mpfootinsv@r
14800     \@RTLtrue
14801     \def\baselinestretch{\m@m@footnote@spacing}%
14802     \reset@font\RTLfoottextfont
14803     \hsize\columnwidth \@parboxrestore
14804     \protected@edef\@currentlabel{%
14805       \csname p@mpfootnote\endcsname\@thefnmark}%
14806     \color@begingroup
14807       \@tencolRTLfootfmt{#1}%
14808     \color@endgroup}%
14809     \m@m@m@prepare}
14810 \newcommand{\@mpTenColRTLfootnotetext}[1]{%

```



```

14811 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
14812 \global\setbox\@mpfootinsv@r\vbox{%
14813   \unvbox\@mpfootinsv@r
14814   \RTLtrue
14815   \def\baselinestretch{\m@m@footnote@spacing}%
14816   \reset@font\RTLfoottextfont
14817   \hsize\columnwidth \@parboxrestore
14818   \protected@edef\@currentlabel{%
14819     \csname p@mpfootnote\endcsname\@thefnmark}%
14820   \color@begingroup
14821     \@tencolRTLfootfmt{#1}%
14822   \color@endgroup}%
14823   \m@m@mmf@prepare}
14824 \bidi@ensure@newcommand{\m@make@tencol@footgroup}[1]{%
14825   \@namedef{\@tencol@footgroup#1}{%
14826     \def\baselinestretch{\m@m@footnote@spacing}%
14827     \hsize\bidi@columnwidth
14828     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14829     \m@m@rigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}%
14830 \newcommand{\bidi@make@tencol@LTRfootgroup}[1]{%
14831   \@namedef{\@tencol@LTRfootgroup#1}{%
14832     \def\baselinestretch{\m@m@footnote@spacing}%
14833     \hsize\bidi@columnwidth
14834     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14835     \bidi@LTRrigidbalance{\@nameuse{footins#1}}{10}{\splittopskip}}}%
14836 \bidi@ensure@newcommand{\m@make@mptencol@footgroup}[1]{%
14837   \@namedef{\@mptencol@footgroup#1}{%
14838     \def\baselinestretch{\m@m@footnote@spacing}%
14839     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14840     \m@m@rigidbalance{\@nameuse{mpfootins#1}}{10}{\splittopskip}}}%
14841 \newcommand{\bidi@make@mptencol@LTRfootgroup}[1]{%
14842   \@namedef{\@mptencol@LTRfootgroup#1}{%
14843     \def\baselinestretch{\m@m@footnote@spacing}%
14844     \@nameuse{foottextfont#1} \splittopskip=\ht\strutbox
14845     \bidi@LTRrigidbalance{\@nameuse{mpfootins#1}}{10}{\splittopskip}}}%
14846 \bidi@ensure@newcommand{\m@munvxh}[1]{%
14847   \setbox0=\vbox{\unvbox#1}
14848   \global\setbox1=\lastbox}%
14849   \unhbox1
14850   \unskip
14851   \unskip
14852   \unpenalty
14853   \hskip\m@mipn@skip}
14854 \bidi@ensure@newcommand{\m@mungebox}{%
14855   \setbox0=\hbox{\m@munvxh0}%
14856   \dp0=\z@
14857   \ht0=\footfudgefactor\wd0
14858   \box0
14859   \penalty0}
14860 \newskip\m@mipn@skip
14861 \bidi@ensure@newcommand*\m@minterparanoteglue}[1]{%
14862   {\foottextfont\global\m@mipn@skip=#1\relax}}
14863 \m@minterparanoteglue{1em plus.3em minus.3em}
14864 \bidi@ensure@newcommand*\m@mmakehboxofhboxes}{%

```



```

14865 \setbox0=\hbox{}}%
14866 \loop
14867   \unpenalty
14868   \setbox2=\lastbox
14869 \ifhbox2
14870   \setbox0=\hbox{\box2\unhbox0}
14871 \repeat}
14872 \bidi@ensure@newcommand*{\m@mremovehboxes}{\setbox0=\lastbox
14873   \ifhbox0{\m@mremovehboxes}\unhbox0 \fi}
14874 \newcommand*{\AddExtraParaSkip[1]}{%
14875   \def\bidi@xparaskip{\advance\@tempdima#1\relax}%
14876 }
14877 \let\bidi@xparaskip\relax
14878 \@onlypreamble\AddExtraParaSkip
14879 \@onlypreamble\bidi@xparaskip
14880 \def\bidi@startparafootskip#1{%
14881   \global\advance\skip#1\bidi@paraskip
14882 }
14883 \@onlypreamble\bidi@startparafootskip
14884 \bidi@ensure@newcommand{\paragraphfootnotes}{%
14885   \@namedef{foottextfontv@r}{\foottextfont}% % [RS]
14886   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14887   \@bidi@before@Hy@hyperfootnotes
14888   \let\@footnotetext\@parafootnotetext
14889   \let\@LTRfootnotetext\@paraLTRfootnotetext
14890   \let\@RTLfootnotetext\@paraRTLfootnotetext
14891   \dimen\footinsv@r=\footinsdim
14892   \count\footinsv@r=1000\relax
14893   \let\bidi@removexfootskip\bidi@removexparafootskip
14894   \m@make@para@footgroup{v@r}%
14895   \m@make@para@footstart{v@r}%
14896   \let\@footgroupv@r\@para@footgroupv@r
14897   \let\@footstartv@r\@para@footstartv@r
14898   \dimen\footinsv@l=\footinsdim
14899   \count\footinsv@l=1000\relax
14900   \bidi@make@para@LTRfootgroup{v@l}%
14901   \m@make@para@footstart{v@l}%
14902   \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
14903   \let\@footstartv@l\@para@footstartv@l
14904   \let\@mpfootnotetext\@mpparafootnotetext
14905   \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
14906   \let\@mpRTLfootnotetext\@mpparaRTLfootnotetext
14907   \@bidi@after@Hy@hyperfootnotes
14908   \m@make@mppara@footgroup{v@r}%
14909   \bidi@make@mppara@LTRfootgroup{v@l}%
14910   \let\mp@footgroupv@r\@mppara@footgroupv@r
14911   \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
14912   \g@addto@macro\bidi@floathook{%
14913     \begingroup
14914     \foottextfont \@tempdima\normalbaselineskip
14915     \multiply \@tempdima \@cclvi
14916     \@tempdimb \columnwidth
14917     \divide \@tempdimb \@cclvi
14918     \divide \@tempdima \@tempdimb

```



```

14919     \xdef\footfudgefactor{\strip@pt\@tempdima}%
14920   \endgroup
14921 }
14922 \AtBeginDocument{%
14923   \begingroup
14924     \foottextfont
14925     \@tempdima\footnotesep
14926     \advance\@tempdima -\ht\strutbox
14927     \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
14928     \advance\@tempdima.5\normalbaselineskip
14929     \bidi@xparaskip
14930     \xdef\bidi@paraskip{\the\@tempdima\relax}%
14931   \endgroup
14932   \bidi@startparafootskip\footinsv@r
14933   \bidi@startparafootskip\footinsv@l
14934 }
14935   \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14936 }
14937 \newcommand{\ParagraphFootnotes}{%
14938   \@namedef{foottextfontv@r}{\foottextfont}%
14939   \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14940   \@bidi@before@Hy@hyperfootnotes
14941   \let\@footnotetext\@Parafootnotetext
14942   \let\@LTRfootnotetext\@ParaLTRfootnotetext
14943   \let\@RTLfootnotetext\@ParaRTLfootnotetext
14944   \dimen\footinsv@r=\footinsdim
14945   \count\footinsv@r=1000\relax
14946   \let\bidi@removexfootskip\bidi@removexparafootskip
14947   \m@make@para@footgroup{v@r}%
14948   \m@make@para@footstart{v@r}%
14949   \let\@footgroupv@r\@para@footgroupv@r
14950   \let\@footstartv@r\@para@footstartv@r
14951   \dimen\footinsv@l=\footinsdim
14952   \count\footinsv@l=1000\relax
14953   \bidi@make@para@LTRfootgroup{v@l}%
14954   \m@make@para@footstart{v@l}%
14955   \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
14956   \let\@footstartv@l\@para@footstartv@l
14957   \let\@mpfootnotetext\@mpParafootnotetext
14958   \let\@mpLTRfootnotetext\@mpParaLTRfootnotetext
14959   \let\@mpRTLfootnotetext\@mpParaRTLfootnotetext
14960   \@bidi@after@Hy@hyperfootnotes
14961   \m@make@mppara@footgroup{v@r}%
14962   \bidi@make@mppara@LTRfootgroup{v@l}%
14963   \let\mp@footgroupv@r\@mppara@footgroupv@r
14964   \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
14965   \g@addto@macro\bidi@floathook{%
14966     \begingroup
14967       \foottextfont \@tempdima\normalbaselineskip
14968       \multiply \@tempdima \ccclvi
14969       \@tempdimb \columnwidth
14970       \divide \@tempdimb \ccclvi
14971       \divide \@tempdima \@tempdimb
14972     \xdef\footfudgefactor{\strip@pt\@tempdima}%

```



```

14973 \endgroup
14974 }
14975 \AtBeginDocument{%
14976 \begingroup
14977 \foottextfont
14978 \@tempdima\footnotesep
14979 \advance\@tempdima -\ht\strutbox
14980 \ifdim\@tempdima<\z@ \@tempdima\z@ \fi
14981 \advance\@tempdima.5\normalbaselineskip
14982 \bidi@xparaskip
14983 \xdef\bidi@paraskip{\the\@tempdima\relax}%
14984 \endgroup
14985 \bidi@startparafootskip\footinsv@r
14986 \bidi@startparafootskip\footinsv@l
14987 }
14988 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
14989 }
14990 \newcommand{\normalRTLparaLTRfootnotes}{%
14991 \@namedef{foottextfontv@l}{\LTRfoottextfont}%
14992 \@bidi@before@Hy@hyperfootnotes
14993 \if@RTL@footnote
14994 \let\@footnotetext\m@mold@footnotetext
14995 \else
14996 \let\@footnotetext\@parafootnotetext
14997 \fi
14998 \let\@LTRfootnotetext\@paraLTRfootnotetext
14999 \let\@RTLfootnotetext\m@mold@RTLfootnotetext
15000 \dimen\footinsv@l=\footinsdim
15001 \count\footinsv@l=1000\relax
15002 \let\bidi@removexfootskip\bidi@removexparafootskip
15003 \bidi@make@para@LTRfootgroup{v@l}%
15004 \m@make@para@footstart{v@l}%
15005 \let\@LTRfootgroupv@l\@para@LTRfootgroupv@l
15006 \let\@footstartv@l\@para@footstartv@l
15007 \if@RTL@footnote
15008 \let\@mpfootnotetext\m@mold@mpfootnotetext
15009 \else
15010 \let\@mpfootnotetext\@mpparafootnotetext
15011 \fi
15012 \let\@mpLTRfootnotetext\@mpparaLTRfootnotetext
15013 \let\@mpRTLfootnotetext\m@mold@mpRTLfootnotetext
15014 \@bidi@after@Hy@hyperfootnotes
15015 \bidi@make@mppara@LTRfootgroup{v@l}%
15016 \let\mp@LTRfootgroupv@l\@mppara@LTRfootgroupv@l
15017 \g@addto@macro\bidi@floathook{%
15018 \begingroup
15019 \LTRfoottextfont \@tempdima\normalbaselineskip
15020 \multiply \@tempdima \@ccclvi
15021 \@tempdimb \columnwidth
15022 \divide \@tempdimb \@ccclvi
15023 \divide \@tempdima \@tempdimb
15024 \xdef\footfudgefactor{\strip@pt\@tempdima}%
15025 \endgroup
15026 }

```





```

15027 \AtBeginDocument{%
15028   \begingroup
15029     \LTRfoottextfont
15030     \@tempdima\footnotesep
15031     \advance\@tempdima -\ht\strutbox
15032     \ifdim\@tempdima<z@ \@tempdima z@ \fi
15033     \advance\@tempdima.5\normalbaselineskip
15034     \bidi@xparaskip
15035     \xdef\bidi@paraskip{\the\@tempdima\relax}%
15036   \endgroup
15037   \bidi@startparafootskip\footinsv@1
15038 }
15039 \@ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
15040 }
15041 \newcommand{\NormalRTLParaLTRFootnotes}{%
15042   \@namedef{foottextfontv@1}{\LTRfoottextfont}%
15043   \@bidi@before@Hy@hyperfootnotes
15044   \if@RTL@footnote
15045     \let\@footnotetext\bidi@bidiold@footnotetext
15046   \else
15047     \let\@footnotetext\@Parafootnotetext
15048   \fi
15049   \let\@LTRfootnotetext\@ParaLTRfootnotetext
15050   \let\@RTLfootnotetext\bidi@bidiold@RTLfootnotetext
15051   \dimen\footinsv@1=\footinsdim
15052   \count\footinsv@1=1000\relax
15053   \let\bidi@removexfootskip\bidi@removexparafootskip
15054   \bidi@make@para@LTRfootgroup{v@1}%
15055   \m@make@para@footstart{v@1}%
15056   \let\@LTRfootgroupv@1\@para@LTRfootgroupv@1
15057   \let\@footstartv@1\@para@footstartv@1
15058   \if@RTL@footnote
15059     \let\@mpfootnotetext\bidi@bidiold@mpfootnotetext
15060   \else
15061     \let\@mpfootnotetext\@mpParafootnotetext
15062   \fi
15063   \let\@mpLTRfootnotetext\@mpParaLTRfootnotetext
15064   \let\@mpRTLfootnotetext\bidi@bidiold@mpRTLfootnotetext
15065   \@bidi@after@Hy@hyperfootnotes
15066   \bidi@make@mppara@LTRfootgroup{v@1}%
15067   \let\mp@LTRfootgroupv@1\@mppara@LTRfootgroupv@1
15068   \g@addto@macro\bidi@floathook{%
15069     \begingroup
15070       \LTRfoottextfont \@tempdima\normalbaselineskip
15071       \multiply \@tempdima \@cclvi
15072       \@tempdimb \columnwidth
15073       \divide \@tempdimb \@cclvi
15074       \divide \@tempdima \@tempdimb
15075       \xdef\footfudgefactor{\strip@pt\@tempdima}%
15076     \endgroup
15077   }
15078 \AtBeginDocument{%
15079   \begingroup
15080     \LTRfoottextfont

```



```

15081 \tempdima\footnotesep
15082 \advance\tempdima -\ht\strutbox
15083 \ifdim\tempdima<\z@ \tempdima\z@ \fi
15084 \advance\tempdima.5\normalbaselineskip
15085 \bidi@xparaskip
15086 \xdef\bidi@paraskip{\the\tempdima\relax}%
15087 \endgroup
15088 \bidi@startparafootskip\footinsv@l
15089 }
15090 \ifstar\bidi@star@footmarkwidth\bidi@normal@footmarkwidth
15091 }
15092 \bidi@ensure@newcommand{\@parafootnotetext}[1]{\insert
15093 \if@RTL@footnote
15094 \footinsv@r
15095 \else
15096 \footinsv@l
15097 \fi
15098 {%
15099 \let\bidi@RTL@everypar\@empty%
15100 \def\baselinestretch{\m@mm@footnote@spacing}%
15101 \reset@font\foottextfont
15102 \@preamfntext
15103 \protected@edef\@currentlabel{%
15104 \csname p@footnote\endcsname\@thefnmark}%
15105 \setbox0=\vbox{\hsize=\maxdimen
15106 \color@begingroup
15107 \noindent \@parafootfmt{#1}%
15108 \color@endgroup}%
15109 \m@mmungebox}\m@mmf@prepare}
15110 \newcommand{\@Parafootnotetext}[1]{%
15111 \bidi@step@absolutefootnote@count
15112 \if@RTL@footnote
15113 \bidi@reinsertfootnote\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15114 \else
15115 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
15116 \fi
15117 \global\setbox
15118 \if@RTL@footnote
15119 \footinsv@r
15120 \else
15121 \footinsv@l
15122 \fi
15123 \vbox{%
15124 \unvbox
15125 \if@RTL@footnote
15126 \footinsv@r
15127 \else
15128 \footinsv@l
15129 \fi
15130 \let\bidi@RTL@everypar\@empty%
15131 \def\baselinestretch{\m@mm@footnote@spacing}%
15132 \reset@font\foottextfont
15133 \@preamfntext
15134 \protected@edef\@currentlabel{%

```



```

15135 \csname p@footnote\endcsname\@thefnmark}%
15136 \setbox0=\vbox{\hsize=\maxdimen
15137 \color@begingroup
15138 \noindent \@parafootfmt{#1}%
15139 \color@endgroup}%
15140 \m@mungebox}\m@mmf@prepare
15141 \if@RTL@footnote
15142 \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
15143 \else
15144 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15145 \fi
15146 }
15147 \bidi@ensure@newcommand{\@paraLTRfootnotetext}[1]{\insert\footinsv@l{%
15148 \let\bidi@RTL@everypar\@empty%
15149 \def\baselinestretch{\m@m@footnote@spacing}%
15150 \reset@font\LTRfoottextfont
15151 \@preamfntext
15152 \protected@edef\@currentlabel{%
15153 \csname p@footnote\endcsname\@thefnmark}%
15154 \setbox0=\vbox{\hsize=\maxdimen
15155 \color@begingroup
15156 \noindent \@paraLTRfootfmt{#1}%
15157 \color@endgroup}%
15158 \m@mungebox}\m@mmf@prepare}
15159 \newcommand{\@ParaLTRfootnotetext}[1]{%
15160 \bidi@step@absolutefootnote@count
15161 \bidi@reinsertfootnote\footinsv@r\@footstartv@r\@footgroupv@r
15162 \global\setbox\footinsv@l\vbox{%
15163 \unvbox\footinsv@l
15164 \let\bidi@RTL@everypar\@empty%
15165 \def\baselinestretch{\m@m@footnote@spacing}%
15166 \reset@font\LTRfoottextfont
15167 \@preamfntext
15168 \protected@edef\@currentlabel{%
15169 \csname p@footnote\endcsname\@thefnmark}%
15170 \setbox0=\vbox{\hsize=\maxdimen
15171 \color@begingroup
15172 \noindent \@paraLTRfootfmt{#1}%
15173 \color@endgroup}%
15174 \m@mungebox}\m@mmf@prepare
15175 \bidi@reinsertfinalfootnoteperpage\footinsv@l\@footstartv@l\@LTRfootgroupv@l
15176 }
15177 \bidi@ensure@newcommand{\@paraRTLfootnotetext}[1]{\insert\footinsv@r{%
15178 \let\bidi@RTL@everypar\@empty%
15179 \def\baselinestretch{\m@m@footnote@spacing}%
15180 \reset@font\RTLfoottextfont
15181 \@preamfntext
15182 \protected@edef\@currentlabel{%
15183 \csname p@footnote\endcsname\@thefnmark}%
15184 \setbox0=\vbox{\hsize=\maxdimen
15185 \color@begingroup
15186 \noindent \@paraRTLfootfmt{#1}%
15187 \color@endgroup}%
15188 \m@mungebox}\m@mmf@prepare}

```



```

15189 \newcommand{\@ParaRTLfootnotetext}[1]{%
15190   \bidi@step@absolutefootnote@count
15191   \bidi@reinsertfootnote\footinsv@1\@footstartv@1\@LTRfootgroupv@1
15192   \global\setbox\footinsv@r\vbox{%
15193     \unvbox\footinsv@r
15194     \let\bidi@RTL@everypar\@empty%
15195     \def\baselinestretch{\m@m@footnote@spacing}%
15196     \reset@font\RTLfoottextfont
15197     \@preamfntext
15198     \protected@edef\@currentlabel{%
15199       \csname p@footnote\endcsname\@thefnmark}%
15200     \setbox0=\vbox{\hsize=\maxdimen
15201       \color@begingroup
15202       \noindent \@paraRTLfootfmt{#1}%
15203       \color@endgroup}%
15204     \m@ungebox}\m@mmf@prepare
15205     \bidi@reinsertfinalfootnoteperpage\footinsv@r\@footstartv@r\@footgroupv@r
15206 }
15207 \bidi@ensure@newcommand{\@parafootfmt}[1]{%
15208   \parindent=\z@
15209   \parfillskip=0pt \@plus 1fil
15210   {\footfootmark\strut {\foottextfont #1}\penalty-10}}
15211 \bidi@ensure@newcommand{\@paraLTRfootfmt}[1]{%
15212   \parindent=\z@
15213   \parfillskip=0pt \@plus 1fil
15214   {\LTRfootfootmark\strut {\LTRfoottextfont #1}\penalty-10}}
15215 \bidi@ensure@newcommand{\@paraRTLfootfmt}[1]{%
15216   \parindent=\z@
15217   \parfillskip=0pt \@plus 1fil
15218   {\RTLfootfootmark\strut {\RTLfoottextfont #1}\penalty-10}}
15219 \bidi@ensure@newcommand{\@mpparafootnotetext}[1]{%
15220   \global\setbox
15221   \if@RTL@footnote
15222     \@mpfootinsv@r
15223   \else
15224     \@mpfootinsv@l
15225   \fi
15226   \vbox{%
15227     \unvbox
15228     \if@RTL@footnote
15229       \@mpfootinsv@r
15230     \else
15231       \@mpfootinsv@l
15232     \fi
15233     \let\bidi@RTL@everypar\@empty
15234     \def\baselinestretch{\m@m@footnote@spacing}%
15235     \reset@font\foottextfont
15236     \hsize\columnwidth \@parboxrestore
15237     \protected@edef\@currentlabel{%
15238       \csname p@mpfootnote\endcsname\@thefnmark}%
15239     \setbox0=\vbox{\hsize=\maxdimen
15240       \color@begingroup
15241       \noindent \@parafootfmt{#1}%
15242       \color@endgroup}%

```



```

15243 \m@ungebox}\m@mmf@prepare}
15244 \newcommand{\@mpParafootnotetext}[1]{%
15245 \if@RTL@footnote
15246 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
15247 \else
15248 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
15249 \fi
15250 \global\setbox
15251 \if@RTL@footnote
15252 \@mpfootinsv@r
15253 \else
15254 \@mpfootinsv@l
15255 \fi
15256 \vbox{%
15257 \unvbox
15258 \if@RTL@footnote
15259 \@mpfootinsv@r
15260 \else
15261 \@mpfootinsv@l
15262 \fi
15263 \let\bidi@RTL@everypar\@empty
15264 \def\baselinestretch{\m@m@footnote@spacing}%
15265 \reset@font\foottextfont
15266 \hsize\columnwidth \@parboxrestore
15267 \protected@edef\@currentlabel{%
15268 \csname p@mpfootnote\endcsname\@thefnmark}%
15269 \setbox0=\vbox{\hsize=\maxdimen
15270 \color@begingroup
15271 \noindent \@parafootfmt{#1}%
15272 \color@endgroup}%
15273 \m@ungebox}\m@mmf@prepare}
15274 \bidi@ensure@newcommand{\@mpparaLTRfootnotetext}[1]{%
15275 \global\setbox\@mpfootinsv@l\vbox{%
15276 \unvbox\@mpfootinsv@l
15277 \let\bidi@RTL@everypar\@empty
15278 \def\baselinestretch{\m@m@footnote@spacing}%
15279 \reset@font\LTRfoottextfont
15280 \hsize\columnwidth \@parboxrestore
15281 \protected@edef\@currentlabel{%
15282 \csname p@mpfootnote\endcsname\@thefnmark}%
15283 \setbox0=\vbox{\hsize=\maxdimen
15284 \color@begingroup
15285 \noindent \@paraLTRfootfmt{#1}%
15286 \color@endgroup}%
15287 \m@ungebox}\m@mmf@prepare}
15288 \newcommand{\@mpParaLTRfootnotetext}[1]{%
15289 \bidi@joinmpfootnotes\@mpfootinsv@r\@footstartv@r\mp@footgroupv@r
15290 \global\setbox\@mpfootinsv@l\vbox{%
15291 \unvbox\@mpfootinsv@l
15292 \let\bidi@RTL@everypar\@empty
15293 \def\baselinestretch{\m@m@footnote@spacing}%
15294 \reset@font\LTRfoottextfont
15295 \hsize\columnwidth \@parboxrestore
15296 \protected@edef\@currentlabel{%

```



```

15297 \csname p@mpfootnote\endcsname\@thefnmark}%
15298 \setbox0=\vbox{\hsize=\maxdimen
15299 \color@begingroup
15300 \noindent \@paraLTRfootfmt{#1}%
15301 \color@endgroup}%
15302 \m@mungebox}\m@mmf@prepare}
15303 \bidi@ensure@newcommand{\@mpparaRTLfootnotetext}[1]{%
15304 \global\setbox\@mpfootinsv@r\vbox{%
15305 \unvbox\@mpfootinsv@r
15306 \let\bidi@RTL@everypar\@empty
15307 \def\baselinestretch{\m@m@footnote@spacing}%
15308 \reset@font\RTLfoottextfont
15309 \hsize\columnwidth \@parboxrestore
15310 \protected@edef\@currentlabel{%
15311 \csname p@mpfootnote\endcsname\@thefnmark}%
15312 \setbox0=\vbox{\hsize=\maxdimen
15313 \color@begingroup
15314 \noindent \@paraRTLfootfmt{#1}%
15315 \color@endgroup}%
15316 \m@mungebox}\m@mmf@prepare}
15317 \newcommand{\@mpParaRTLfootnotetext}[1]{%
15318 \bidi@joinmpfootnotes\@mpfootinsv@l\@footstartv@l\mp@LTRfootgroupv@l
15319 \global\setbox\@mpfootinsv@r\vbox{%
15320 \unvbox\@mpfootinsv@r
15321 \let\bidi@RTL@everypar\@empty
15322 \def\baselinestretch{\m@m@footnote@spacing}%
15323 \reset@font\RTLfoottextfont
15324 \hsize\columnwidth \@parboxrestore
15325 \protected@edef\@currentlabel{%
15326 \csname p@mpfootnote\endcsname\@thefnmark}%
15327 \setbox0=\vbox{\hsize=\maxdimen
15328 \color@begingroup
15329 \noindent \@paraRTLfootfmt{#1}%
15330 \color@endgroup}%
15331 \m@mungebox}\m@mmf@prepare}
15332 \bidi@ensure@newcommand{\m@make@para@footgroup}[1]{%
15333 \@namedef{@para@footgroup#1}{%
15334 \unvbox\@nameuse{footins#1}
15335 \@RTLtrue
15336 \m@mmakehboxofhboxes
15337 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15338 \hsize\bidi@columnwidth
15339 \@parboxrestore
15340 \def\baselinestretch{\m@m@footnote@spacing}%
15341 \@nameuse{foottextfont#1}%
15342 \noindent\unhbox0\par}}
15343 \bidi@ensure@newcommand{\bidi@make@para@LTRfootgroup}[1]{%
15344 \@namedef{@para@LTRfootgroup#1}{%
15345 \unvbox\@nameuse{footins#1}
15346 \@RTLfalse
15347 \m@mmakehboxofhboxes
15348 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15349 \hsize\bidi@columnwidth
15350 \@parboxrestore

```



```

15351 \def\baselinestretch{\m@m@footnote@spacing}%
15352 \@nameuse{foottextfont#1}%
15353 \noindent\unhbox0\par}}
15354 \newcommand{\bidi@removexparafootskip}{%
15355 \advance\@tempskipa -\bidi@paraskip
15356 \edef\bidi@footskip{\vskip\the\@tempskipa\relax}%
15357 }
15358 \let\bidi@removexfootskip\relax
15359 \bidi@ensure@newcommand{\m@make@mppara@footgroup}[1]{%
15360 \@namedef{@mppara@footgroup#1}{%
15361 \unvbox\@nameuse{@mpfootins#1}
15362 \@RTLtrue
15363 \m@mmakehboxofhboxes
15364 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15365 \def\baselinestretch{\m@m@footnote@spacing}%
15366 \@nameuse{foottextfont#1}%
15367 \noindent\unhbox0\par}}
15368 \bidi@ensure@newcommand{\bidi@make@mppara@LTRfootgroup}[1]{%
15369 \@namedef{@mppara@LTRfootgroup#1}{%
15370 \unvbox\@nameuse{@mpfootins#1}
15371 \@RTLfalse
15372 \m@mmakehboxofhboxes
15373 \setbox0=\hbox{\unhbox0 \m@mremovehboxes}%
15374 \def\baselinestretch{\m@m@footnote@spacing}%
15375 \@nameuse{foottextfont#1}%
15376 \noindent\unhbox0\par}}
15377 \bidi@ensure@newcommand{\m@make@para@footstart}[1]{%
15378 \@namedef{@para@footstart#1}{%
15379 \leftskip=\z@
15380 \rightskip=\z@
15381 \parindent=\z@
15382 }%
15383 }
15384 \bidi@ensure@newcommand*{\m@m@makecolfloats}{%
15385 \xdef\@freelist{\@freelist\@midlist}%
15386 \global\let\@midlist\@empty
15387 \@combinefloats}
15388 \bidi@ensure@newcommand*{\m@m@makecoltext}{%
15389 \ifvbox\@kludgeins
15390 \@makespecialcolbox
15391 \else
15392 \setbox\@outputbox \vbox to\@colht{%
15393 \@texttop
15394 \dimen@ \dp\@outputbox
15395 \unvbox \@outputbox
15396 \vskip -\dimen@
15397 \@textbottom}%
15398 \fi}
15399 \bidi@ensure@newcommand*{\m@m@makecolintro}{%
15400 \bidi@ensure@newcommand*{\m@mopfootnote}{\setbox\@outputbox \vbox{%
15401 \boxmaxdepth\@maxdepth
15402 \@tempdima\dp\@cclv
15403 \unvbox\@cclv
15404 \vskip-\@tempdima

```



```

15405 \bidi@mopfn@bottom
15406 \vskip \skip\footins
15407 \color@begingroup
15408 \normalcolor
15409 \footnoterule
15410 \unvbox \footins
15411 \color@endgroup
15412 }%
15413 }
15414 \newcommand*{\bidi@mopfootnotebf}{%
15415 \setbox\@outputbox \vbox{%
15416 \boxmaxdepth\@maxdepth
15417 \unvbox\@outputbox
15418 \bidi@mopfn@bottom
15419 \vskip\skip\footins
15420 \color@begingroup
15421 \normalcolor
15422 \footnoterule
15423 \unvbox \footins
15424 \color@endgroup
15425 }%
15426 }
15427 \gdef\mem@makecol{%
15428 \m@m@makecolintro
15429 \m@m@doextrafeet
15430 \ifvoid\footins
15431 \setbox\@outputbox \box\@cclv
15432 \else
15433 \m@mopfootnote
15434 \fi
15435 \m@m@makecolfloats
15436 \m@m@makecoltext
15437 \global \maxdepth \@maxdepth}
15438 \gdef\bidi@makecolbf{%
15439 \m@m@makecolintro
15440 \m@m@doextrafeet
15441 \setbox\@outputbox \box\@cclv
15442 \m@m@makecolfloats
15443 \ifvoid\footins
15444 \else
15445 \bidi@mopfootnotebf
15446 \fi
15447 \m@m@makecoltext
15448 \global \maxdepth \@maxdepth}
15449 \newcommand{\FeetAboveFloat}{\gdef\@makecol{\mem@makecol}}
15450 \newcommand{\FeetBelowFloat}{\gdef\@makecol{\bidi@makecolbf}}
15451 \newcommand\FeetAtBottom{\def\bidi@mopfn@bottom{\vfill\relax}}
15452 \newcommand\FeetBelowRagged{\let\bidi@mopfn@bottom\relax}
15453 \FeetAboveFloat
15454 \FeetBelowRagged
15455 \def\bidi@reinserts#1{\ifvoid#1\else
15456 \ifnum\count\@currbox>\z@
15457 \advance\@pageht \ht#1%
15458 \advance\@pageht \skip#1%

```





```

15459     \advance\@pageht \dp#1%
15460     \fi
15461     \insert#1{\unvbox#1}%
15462     \fi
15463 }
15464 \def\bid@init@multi@footins#1{%
15465     \multiply\count#1\col@number
15466     \multiply\skip#1\col@number
15467 }
15468 \def\bid@reinsert@footnotes#1{\ifvoid#1\else
15469     \insert#1{}\fi}
15470 \AtBeginDocument{%
15471     \bid@preto\@doclearpage\m@mdoextrafeet
15472     \g@addto@macro\@reinserts{%
15473         \bid@reinserts\footinsv@r
15474         \bid@reinserts\footinsv@l
15475     }
15476     \bid@floathook
15477     \g@addto@macro\@floatplacement{%
15478         \bid@ifmulticol{}\bid@floathook}%
15479     }%
15480     \if\bid@csundef{multi@column@out}{%
15481         \@onlypreamble\bid@init@multi@footins
15482         \let\bid@ifmulticol\@secondoftwo
15483     }{%
15484         \bid@preto\multi@column@out\m@mdoextrafeet
15485         \g@addto@macro\init@mult@footins{%
15486             \bid@init@multi@footins\footinsv@r
15487             \bid@init@multi@footins\footinsv@l
15488         }%
15489         \g@addto@macro\reinsert@footnotes{%
15490             \bid@reinsert@footnotes\footinsv@r
15491             \bid@reinsert@footnotes\footinsv@l
15492         }%
15493     }%
15494 }

```

## 87 File extreport-xetex-bidi.def

```

15495 \ProvidesFile{extreport-xetex-bidi.def}[2017/06/09 v0.3 bidi adaptations for extreport class]
15496 \renewcommand*\l@part[2]{%
15497     \ifnum \c@tocdepth >-2\relax
15498         \addpenalty{-\@highpenalty}%
15499         \addvspace{2.25em \@plus\p}%
15500         \begingroup
15501             \setlength\@tempdima{3em}%
15502             \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15503             \parfillskip -\@pnumwidth
15504             {\leavevmode
15505                 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
15506             \nobreak
15507             \global\@nobreaktrue
15508             \everypar{\global\@nobreakfalse\everypar{}}%
15509         \endgroup

```



```

15510 \fi}
15511 \renewcommand*\l@chapter[2]{%
15512 \ifnum \c@tocdepth >\m@ne
15513 \addpenalty{-\@highpenalty}%
15514 \vskip 1.0em \@plus\p@
15515 \setlength\@tempdima{1.5em}%
15516 \begingroup
15517 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
15518 \parfillskip -\@pnumwidth
15519 \leavevmode \bfseries
15520 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
15521 \hskip -\if@RTL\rightskip\else\leftskip\fi
15522 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
15523 \penalty\@highpenalty
15524 \endgroup
15525 \fi}
15526 \def\@makechapterhead#1{%
15527 \vspace*{50\p@}%
15528 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
15529 \ifnum \c@secnumdepth >\m@ne
15530 \huge\bfseries \@chapapp\space \thechapter
15531 \par\nobreak
15532 \vskip 20\p@
15533 \fi
15534 \interlinepenalty\@M
15535 \Huge \bfseries #1\par\nobreak
15536 \vskip 40\p@
15537 }}
15538 \def\@makeschapterhead#1{%
15539 \vspace*{50\p@}%
15540 {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
15541 \normalfont
15542 \interlinepenalty\@M
15543 \Huge \bfseries #1\par\nobreak
15544 \vskip 40\p@
15545 }}
15546 \renewcommand\left@footnoterule{%
15547 \kern-3\p@
15548 \hrule\@width.4\columnwidth
15549 \kern2.6\p@}
15550 \renewcommand\right@footnoterule{%
15551 \kern-3\p@
15552 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
15553 \kern2.6\p@}
15554 \renewenvironment{thebibliography}[1]
15555 {\chapter*{\bibname
15556 \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}}%
15557 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
15558 \bidi@thebibliography@font@hook%
15559 \list{\@biblabel{\@arabic\c@enumiv}}%
15560 {\settowidth\labelwidth{\@biblabel{#1}}%
15561 \leftmargin\labelwidth
15562 \advance\leftmargin\labelsep
15563 \@openbib@code

```



```

15564         \usecounter{enumiv}%
15565         \let\p@enumiv\@empty
15566         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
15567     \sloppy\clubpenalty4000\widowpenalty4000%
15568     \sfcode`.\@m}
15569     {\def\@noitemerr
15570       {\@latex@warning{Empty `thebibliography' environment}}}%
15571     \endlist}
15572 \if@titlepage
15573 \renewcommand\maketitle{\begin{titlepage}%
15574 \let\footnotesize\small
15575 \let\right@footnoterule\relax
15576 \let\left@footnoterule\relax
15577 \let\textwidth@footnoterule\relax
15578 \let \footnote \thanks
15579 \null\vfil
15580 \vskip 60\p@
15581 \begin{center}%
15582   {\LARGE \@title \par}%
15583   \vskip 3em%
15584   {\large
15585     \lineskip .75em%
15586     \begin{tabular}[t]{c}%
15587       \@author
15588     \end{tabular}\par}%
15589     \vskip 1.5em%
15590     {\large \@date \par}%           % Set date in \large size.
15591 \end{center}\par
15592 \@thanks
15593 \vfil\null
15594 \end{titlepage}%
15595 \setcounter{footnote}{0}%
15596 \global\let\thanks\relax
15597 \global\let\maketitle\relax
15598 \global\let\@thanks\@empty
15599 \global\let\@author\@empty
15600 \global\let\@date\@empty
15601 \global\let\@title\@empty
15602 \global\let\title\relax
15603 \global\let\author\relax
15604 \global\let\date\relax
15605 \global\let\and\relax
15606 }
15607 \else
15608 \renewcommand\maketitle{\par
15609 \begingroup
15610   \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
15611   \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
15612   \long\def\@makefntext##1{\parindent 1em\noindent
15613     \hbxt@1.8em{%
15614       \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
15615   \if@twocolumn
15616     \ifnum \col@number=\@ne
15617       \@maketitle

```



```

15618     \else
15619         \twocolumn[\@maketitle]%
15620     \fi
15621     \else
15622         \newpage
15623         \global\@topnum\z@    % Prevents figures from going at top of page.
15624         \@maketitle
15625     \fi
15626     \thispagestyle{plain}\@thanks
15627 \endgroup
15628 \setcounter{footnote}{0}%
15629 \global\let\thanks\relax
15630 \global\let\maketitle\relax
15631 \global\let\@maketitle\relax
15632 \global\let\@thanks\@empty
15633 \global\let\@author\@empty
15634 \global\let\@date\@empty
15635 \global\let\@title\@empty
15636 \global\let\title\relax
15637 \global\let\author\relax
15638 \global\let\date\relax
15639 \global\let\and\relax
15640 }
15641 \def\@maketitle{%
15642     \newpage
15643     \null
15644     \vskip 2em%
15645     \begin{center}%
15646     \let \footnote \thanks
15647         {\LARGE \@title \par}%
15648         \vskip 1.5em%
15649         {\large
15650             \lineskip .5em%
15651             \begin{tabular}[t]{c}%
15652                 \@author
15653             \end{tabular}\par}%
15654         \vskip 1em%
15655         {\large \@date}%
15656     \end{center}%
15657     \par
15658     \vskip 1.5em}
15659 \fi
15660 \renewcommand\thesection    {\thechapter\@SepMark\@arabic\c@section}
15661 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15662 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15663 \renewcommand\theparagraph  {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15664 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
15665 \renewcommand\theequation{%
15666     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
15667 \renewcommand\thefigure{%
15668     \ifnum \c@chapter>\z@\thechapter\@SepMark\fi \@arabic\c@figure}
15669 \renewcommand\thetable{%
15670     \ifnum \c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}

```



## 88 File fancybox-xetex-bidi.def

```
15671 \ProvidesFile{fancybox-xetex-bidi.def}[2013/05/01 v0.1 bidi adaptations for fancybox package]
15672 \def\fancy@oval#1#2#3{%
15673   \boxmaxdepth \maxdimen
15674   \@ovttrue \@ovbtrue \@ovltrue \@ovrtrue
15675   \@tfor\@tempa :=#3\do{\csname @ov\@tempa false\endcsname}%
15676   \@ovxx#1\relax
15677   \advance\@ovxx-\@wholewidth
15678   \@ovyy#2\relax
15679   \advance\@ovyy-\@wholewidth
15680   \@tempdimb \ifdim \@ovyy >\@ovxx \@ovxx\else \@ovyy \fi
15681   \advance\@tempdimb-2\p@
15682   \ifdim\@tempdimb>\the@cornersize\relax
15683     \@tempdimb=\the@cornersize
15684   \fi
15685   \@getcirc\@tempdimb
15686   \@ovro\ht\@tempboxa \@ovri\dp\@tempboxa
15687   \@ovdx\@ovxx \advance\@ovdx-\@tempdima \divide\@ovdx \tw@
15688   \@ovdy\@ovyy \advance\@ovdy-\@tempdima \divide\@ovdy \tw@
15689   \@circlefnt
15690   \setbox\@tempboxa\hbox{\beginL%
15691     \if@ovr \@ovvert32\kern -\@tempdima \fi
15692     \if@ovl \kern \@ovxx \@ovvert01\kern -\@tempdima \kern -\@ovxx \fi
15693     \if@ovt \@ovhorz \kern -\@ovxx \fi
15694     \if@ovb \raise \@ovyy \@ovhorz \fi\endL}%
15695   \advance\@ovdx\@ovro
15696   \advance\@ovdy\@ovro
15697   \advance\@ovxx\@wholewidth
15698   \wd\@tempboxa=\@ovxx
15699   \dp\@tempboxa=\z@}
```

## 89 File fancyhdr-xetex-bidi.def

```
15700 \ProvidesFile{fancyhdr-xetex-bidi.def}[2025/09/03 v1.0 bidi adaptations for fancyhdr package]
15701
15702 \let\f@nch@everypar\everypar
15703
15704 \def\f@nch@parbox@align@hl{\def\f@nch@align@h{\bidi@raggedright}}
15705 \def\f@nch@parbox@align@hr{\def\f@nch@align@h{\bidi@raggedleft}}
15706
```

## 90 File fix2col-xetex-bidi.def

```
15707 \ProvidesFile{fix2col-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for fix2col package]
15708 \def\RTL@outputdblcol{%
15709   \if@firstcolumn
15710     \global\@firstcolumnfalse
15711     \global\setbox\@leftcolumn\copy\@outputbox
15712     \splitmaxdepth\maxdimen
15713     \vbadness\maxdimen
15714     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
15715     \toks@ \expandafter{\topmark}%
15716     \xdef\@firstcoltopmark{\the\toks@}%
15717   }
```



```

15717 \toks@expandafter{\splitfirstmark}%
15718 \xdef\@firstcolfirstmark{\the\toks@}%
15719 \ifx\@firstcolfirstmark\@empty
15720 \global\let\@setmarks\relax
15721 \else
15722 \gdef\@setmarks{%
15723 \let\firstmark\@firstcolfirstmark
15724 \let\topmark\@firstcoltopmark}%
15725 \fi
15726 \else \global\@firstcolumntrue
15727 \setbox\@outputbox \vbox {\hbox to\textwidth {%
15728 \hskip \columnwidth
15729 \hfil \vrule width\columnseprule \hfil
15730 \hbox to\columnwidth {%
15731 \bidi@firstcolumn@status@write%
15732 \box\@leftcolumn \hss}%
15733 \hskip -\textwidth
15734 \hbox to\columnwidth{%
15735 \bidi@lastcolumn@status@write%
15736 \box\@outputbox \hss}%
15737 \hskip \columnsep
15738 \hskip \columnwidth }}}%
15739 \@combinedblfloats \@setmarks \@outputpage
15740 \begingroup \@dblfloatplacement \@startdblcolumn
15741 \@whiles\if@fcolmade \fi
15742 {\@outputpage \@startdblcolumn }\endgroup
15743 \fi}
15744 \def\LTR@outputdblcol{%
15745 \if@firstcolumn
15746 \global\@firstcolumnfalse
15747 \global\setbox\@leftcolumn\copy\@outputbox
15748 \splitmaxdepth\maxdimen
15749 \vbadness\maxdimen
15750 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
15751 \toks@expandafter{\topmark}%
15752 \xdef\@firstcoltopmark{\the\toks@}%
15753 \toks@expandafter{\splitfirstmark}%
15754 \xdef\@firstcolfirstmark{\the\toks@}%
15755 \ifx\@firstcolfirstmark\@empty
15756 \global\let\@setmarks\relax
15757 \else
15758 \gdef\@setmarks{%
15759 \let\firstmark\@firstcolfirstmark
15760 \let\topmark\@firstcoltopmark}%
15761 \fi
15762 \else
15763 \global\@firstcolumntrue
15764 \setbox\@outputbox\vbox{%
15765 \hb@xt@\textwidth{%
15766 \hb@xt@\columnwidth{%
15767 \bidi@firstcolumn@status@write%
15768 \box\@leftcolumn \hss}%
15769 \hfil
15770 \vrule \@width\columnseprule

```



```

15771         \hfil
15772         \hb@xt@\columnwidth{%
15773         \bidi@lastcolumn@status@write%
15774         \box\@outputbox \hss}}}%
15775 \@@combinedblfloats
15776 \@@setmarks
15777 \@@outputpage
15778 \begin@group
15779 \@@dblfloatplacement
15780 \@@startdblcolumn
15781 \@@whilesw@if@fcolmade \fi{\@@outputpage\@@startdblcolumn}%
15782 \endgroup
15783 \fi}

```

## 91 File fleqn-xetex-bidi.def

```

15784 \ProvidesFile{fleqn-xetex-bidi.def}[2024/12/07 v0.2 bidi adaptations for fleqn tag for XeTeX]
15785 \DeclareRobustCommand\{\relax
15786         \ifmmode\@badmath
15787         \else
15788         \begin{trivlist}%
15789         \@@beginparpenalty\predisplaypenalty
15790         \@@endparpenalty\postdisplaypenalty
15791         \item[]\leavevmode
15792         \hb@xt@\linewidth\bgroup \beginL$\m@th\displaystyle %$
15793         \hskip\mathindent\bgroup
15794         \fi}
15795 \DeclareRobustCommand\}\relax
15796         \ifmmode
15797         \egroup $\hfil% $
15798         \endL\egroup
15799         \end{trivlist}%
15800         \else \@badmath
15801         \fi}
15802 \renewenvironment{equation}%
15803 {\@@beginparpenalty\predisplaypenalty
15804 \@@endparpenalty\postdisplaypenalty
15805 \refstepcounter{equation}%
15806 \trivlist \item[]\leavevmode
15807 \hb@xt@\linewidth\bgroup\beginL $\m@th% $
15808 \displaystyle
15809 \hskip\mathindent}%
15810 {\$\hfil % $
15811 \displaywidth\linewidth\hbox{\@eqnnum}%
15812 \endL\egroup
15813 \endtrivlist}

```

## 92 File float-xetex-bidi.def

```

15814 \ProvidesFile{float-xetex-bidi.def}[2013/04/04 v0.2 bidi adaptations for float package for XeTeX]
15815 \renewcommand\floatc@plain[2]{\setbox\@tempboxa\hbox{\@fs@cfont #1:} #2}%
15816 \ifdim\wd\@tempboxa>\hsize {\@fs@cfont #1:} #2\par
15817 \else\hbox to\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}\fi}
15818 \def\float@newx#1[#2]{\@ifundefined{c@#1}{\newcounter{#1}[#2]}%

```



```

15819 \expandafter\edef\csname the#1\endcsname{%
15820 \expandafter\noexpand\csname
15821 the#2\endcsname\@SepMark\noexpand\arabic{#1}}}%
15822 {\PackageWarning{float}{Can't redefine counter variable for #1.}}

```

### 93 File floatrow-xetex-bidi.def

```

15823 \ProvidesFile{floatrow-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for floatrow package]
15824 \RequirePackage{color}
15825 \renewcommand\flnew@within[1]{\@addtoreset{FB@captype}{#1}%
15826 \expandafter\edef\csname the\FB@captype\endcsname{%
15827 \expandafter\noexpand\csname
15828 the#1\endcsname\@SepMark\noexpand\arabic{FB@captype}}}

```

### 94 File flowfram-xetex-bidi.def

```

15829 \ProvidesFile{flowfram-xetex-bidi.def}[2025/01/03 v0.6 bidi adaptations for flowfram package]
15830 \def\@outputdblcol{%
15831 \@nxtcol=\c@thisframe
15832 \c@curpg=\c@page
15833 \g@tnextcol{\@nxtcol}%
15834 \if@ff@nwpg % next flow frame starts on new page
15835 \global\@firstcolumntrue
15836 \@setcolbox\c@thisframe
15837 \if@specialpage
15838 \global\@specialpagefalse
15839 \nameuse{ps@\@specialstyle}\relax
15840 \fi
15841 \if@twoside
15842 \ifodd\count\z@
15843 \let\@thehead\@oddhead
15844 \let\@thefoot\@oddfoot
15845 \else
15846 \let\@thehead\@evenhead
15847 \let\@thefoot\@evenfoot
15848 \fi
15849 \else
15850 \let\@thehead\@oddhead
15851 \let\@thefoot\@oddfoot
15852 \fi
15853 \@begindvi
15854 \dodynamicthehead\dodynamicthefoot
15855 \vbadness=\@M
15856 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
15857 \@combinedblfloats
15858 \@outputpage
15859 \advance\c@curpg by -\c@page\relax
15860 \whiledo{\c@curpg>0}{\advance\c@curpg by -1\relax
15861 \setbox\@outputbox\vbox{\hbox to \textwidth{\@ff@do@allframes}}%
15862 \@outputpage}
15863 \begingroup
15864 \dblfloatplacement
15865 \@startdblcolumn
15866 \@whilesw \if@fcolmade \fi

```





```

15867      {\@outputpage \@startdblcolumn }\endgroup
15868      \@resetst@tics
15869      \@resetdyn@tics
15870 \else % still on same page, save contents of box255
15871   \global\@firstcolumnfalse
15872   \@setcolbox\c@thisframe
15873 \fi
15874 \global\c@thisframe=\@nxtcol
15875 \@setcol{\c@thisframe}\relax
15876 \global\@colht\vsizel
15877 }
15878 \def\@outputpage{%
15879 \begingroup
15880   \let\protect\noexpand
15881   \@resetactivechars
15882   \global\let\@if@newlist@if@newlist
15883   \global\@newlistfalse\@parboxrestore
15884   \global\let\@bidi@BeforeOutputPageShipOut\@firstofone
15885   \bidi@beforeoutputpageshipouthook
15886   \shipout\vbox{\set@typeset@protect
15887     \aftergroup
15888     \endgroup
15889     \aftergroup
15890     \set@typeset@protect
15891     \reset@font\normalsize
15892     \bidi@font\@outputpage
15893     \normalsfcodes
15894     \let\label\@gobble
15895     \let\index\@gobble
15896     \let\glossary\@gobble
15897     \baselineskip\z@skip
15898     \lineskip\z@skip
15899     \lineskiplimit\z@
15900     \vskip\topmargin\moveright\@themargin
15901     \vbox{%
15902       \global\let\@bidi@BeforeHeader\@firstofone
15903       \bidi@beforeheaderhook
15904       \vskip\headheight
15905       \vskip\headsep
15906       \global\let\@bidi@BeforeOutputBoxOutputPage\@firstofone
15907       \bidi@beforeoutputboxoutputpagehook
15908       \box\@outputbox
15909       \global\let\@bidi@AfterOutputBoxOutputPage\@firstofone
15910       \bidi@afteroutputboxoutputpagehook
15911     }%
15912     \global\let\@bidi@AfterOutputPageShipOut\@firstofone
15913     \bidi@afteroutputpageshipouthook
15914     \global\let@if@newlist\@if@newlist
15915     \stepcounter{page}%
15916     \setcounter{displayedframe}{0}%
15917     \let\firstmark\botmark
15918     \global\let\@bidi@AtEndOutputPage\@firstofone
15919     \bidi@atendoutputpagehook
15920   }

```



```

15921
15922
15923 \newcommand*{\bidi@s@tfftextcol}{\ifthenelse{\equal{\ff@txtcol}{}}{}}{ }
15924 \expandafter\bidicolor\ff@txtcol}
15925
15926 \newcommand{\bidi@ff@box}[3]{\@ffbackground{\vbox to#2
15927 {\hb@xt@ #1{\hss{\bidi@s@tfftextcol #3}\hss}\vss\kern\z@}}}}
15928
15929
15930 \renewcommand*{\@docolbox}[1]{%
15931 \edef\ff@frametype{%
15932 \csname @ff@frametype@romannumeral#1\endcsname}%
15933 \edef\ff@col{\csname @ff@col@romannumeral#1\endcsname}%
15934 \edef\ff@txtcol{\csname @ff@txtcol@romannumeral#1\endcsname}%
15935 \edef\ff@backcol{\csname @ff@backcol@romannumeral#1\endcsname}%
15936 \@ff@setoffset{#1}%
15937 \rotateframe{\csname @ff@angle@romannumeral#1\endcsname}{%
15938 \ifthenelse{\boolean{columnframe\romannumeral#1}}{ }
15939 \@ff@fbox{\csname colwidth\romannumeral#1\endcsname}%
15940 {\csname colheight\romannumeral#1\endcsname}{%
15941 \expandafter\box\csname column\romannumeral#1\endcsname}{%
15942 \csname\ff@frametype\endcsname}%
15943 } }
15944 \bidi@ff@box{\csname colwidth\romannumeral#1\endcsname}%
15945 {\csname colheight\romannumeral#1\endcsname}{%
15946 \expandafter\box\csname column\romannumeral#1\endcsname}%
15947 } }
15948 \IfClassLoadedT{book}{%
15949 \renewcommand\theequation
15950 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15951 \renewcommand \thefigure
15952 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15953 \renewcommand \thetable
15954 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
15955 \renewcommand \thechapter {\@arabic\c@chapter}
15956 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
15957 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15958 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15959 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15960 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}
15961 \IfClassLoadedT{report}{%
15962 \renewcommand\theequation
15963 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
15964 \renewcommand \thefigure
15965 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
15966 \renewcommand \thetable
15967 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
15968 \renewcommand \thechapter {\@arabic\c@chapter}
15969 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
15970 \renewcommand\thesubsection {\thesection\@SepMark\@arabic\c@subsection}
15971 \renewcommand\thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
15972 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
15973 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}}
15974 \renewcommand{\rotateframe}[2]{\if@ttb@rotate

```



```

15975 \rotatebox{#1}{\if@RTL\beginL\fi#2\if@RTL\endL\fi}%
15976 \else
15977 #2\relax
15978 \fi}

```

## 95 File footnote-xetex-bidi.def

```

15979 \ProvidesFile{footnote-xetex-bidi.def}[2024/12/14 v1.3 bidi footnote macros for XeTeX engine]
15980 \if@RTLmain\@RTL@footnotetrue\else\@RTL@footnotefalse\fi
15981 \newif\ifbidi@autofootnoterule
15982 \def\bidi@mpfootnoterule{\footnoterule}
15983 \newcounter{footdir@label}
15984 \renewcommand*{\thefootdir@label}{footdir@the\value{footdir@label}}
15985 \newcommand*{\footdir@write}{%
15986   \stepcounter{footdir@label}%
15987   \zref@labelbyprops{\thefootdir@label}{abspage}%
15988 }
15989 \newcommand*{\debugfootnotedirection}{\footdir@debugtrue}
15990 \newtoks\footdir@toks
15991 \newcommand*{\footdir@debug}[1]{%
15992   \iffootdir@debug
15993     \typeout{[footdir] #1}%
15994   \fi
15995 }
15996 %\@ifpackagelater{zref-abspage}{2012/10/27}{%
15997 %  \newcommand*{\footdir@LeftRightElse}{%
15998 %    \ltx@ifundefined{footdir@the\value{zabspage}}{%
15999 %      \footdir@debug{abspage \the\value{zabspage}: else}%
16000 %    \ltx@thirdofthree
16001 %  }{%
16002 %    \if\csname footdir@the\value{zabspage}\endcsname L%
16003 %      \footdir@debug{abspage \the\value{zabspage}: left}%
16004 %      \expandafter\ltx@firstofthree
16005 %    \else
16006 %      \footdir@debug{abspage \the\value{zabspage}: right}%
16007 %      \expandafter\ltx@secondofthree
16008 %    \fi
16009 %  }%
16010 %}%
16011 %}{%
16012 %  \providecommand*{\c@zabspage}{\c@abspage}%
16013 %  \newcommand*{\footdir@LeftRightElse}{%
16014 %    \footdir@write
16015 %    \zifrefundefined{\thefootdir@label}{%
16016 %      \footdir@debug{abspage ??: else}%
16017 %      \ltx@thirdofthree
16018 %    }{%
16019 %      \edef\footdir@abspage{%
16020 %        \zref@extractdefault{\thefootdir@label}{abspage}{0}%
16021 %      }%
16022 %      \ltx@ifundefined{footdir@\footdir@abspage}{%
16023 %        \footdir@debug{\footdir@abspage: else}%
16024 %        \ltx@thirdofthree
16025 %      }{%

```



```

16026         \if\csname footdir@\footdir@abspage\endcsname L%
16027         \footdir@debug{\footdir@abspage: left}%
16028         \expandafter\ltx@firstofthree
16029         \else
16030         \footdir@debug{\footdir@abspage: right}%
16031         \expandafter\ltx@secondofthree
16032         \fi
16033     }%
16034 }%
16035 }%
16036 %}
16037 \newcommand*{\footdir@fntext}[1]{%
16038     \zifrefundefined{\thefootdir@label}{%
16039     }{%
16040         \edef\footdir@name{%
16041             footdir@\zref@extractdefault{\thefootdir@label}{abspage}{0}%
16042         }%
16043         \@ifundefined{\footdir@name}{%
16044             \expandafter\gdef\csname\footdir@name\endcsname{#1}%
16045         }{}%
16046     }%
16047 }
16048
16049 \newcommand*{\footdir@temp}[3]{%
16050     \@ifdefinable{#1}{%
16051         \let#1#2%
16052         \renewcommand{#2}[1]{%
16053             \footdir@write
16054             \footdir@fntext{#3}%
16055             \stepcounter{footdir@label}%
16056             \footdir@fntext{#3}%
16057             \footdir@toks{##1}%
16058             \footdir@toks\expandafter{%
16059                 \the\expandafter\footdir@toks
16060                 \expandafter
16061                 \zref@labelbyprops\expandafter{\thefootdir@label}{abspage}%
16062             }%
16063             \expandafter#1\expandafter{\the\footdir@toks}%
16064         }%
16065     }%
16066 }
16067
16068 \def\right@footnoterule{%
16069     \kern-3\p@
16070     \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
16071     \kern2.6\p@}
16072 \def\left@footnoterule{\kern-3\p@
16073     \hrule \@width .4\columnwidth \kern 2.6\p@}
16074 \def\textwidth@footnoterule{\kern-3\p@
16075     \hrule \@width \columnwidth \kern 2.6\p@}
16076 \def\leftfootnoterule{%
16077     \bidi@autofootnoterulefalse%
16078     \def\footnoterule{\left@footnoterule}}
16079 \let\LRfootnoterule=\leftfootnoterule

```



```

16080 \def\rightfootnoterule{%
16081 \bidi@autofootnoterulefalse%
16082 \def\footnoterule{\right@footnoterule}}
16083 \def\textwidthfootnoterule{%
16084 \bidi@autofootnoterulefalse%
16085 \def\footnoterule{\textwidth@footnoterule}}
16086
16087
16088
16089 \def\auto@footnoterule{%
16090 \footdir@LeftRightElse%
16091 \left@footnoterule%
16092 \right@footnoterule%
16093 \left@footnoterule%
16094 }
16095
16096
16097
16098 \def\autofootnoterule{%
16099 \bidi@autofootnoteruletrue%
16100 \def\footnoterule{\auto@footnoterule}%
16101 }
16102
16103 \newcommand*\SplitFootnoteRule{%
16104   \gdef\split@prev{0}
16105   \let\pagefootnoterule\footnoterule
16106   \let\mpfootnoterule\footnoterule
16107   \def\splitfootnoterule{\kern-3\p@ \hrule \kern2.6\p@}
16108   \def\footnoterule{\relax
16109     \ifx \@listdepth\@mplistdepth
16110       \mpfootnoterule
16111     \else
16112       \ifnum\split@prev=\z@
16113         \pagefootnoterule
16114       \else
16115         \splitfootnoterule
16116       \fi
16117       \xdef\split@prev{\the\insertpenalties}%
16118     \fi
16119   }%
16120 }
16121
16122
16123
16124
16125 \def\RTLfootnote{\@ifnextchar[\@xRTLfootnote{\stepcounter\@mpfn
16126   \protected@xdef\@thefnmark{\thempfn}%
16127   \@footnotemark\@RTLfootnotetext}}
16128 \def\@xRTLfootnote[#1]{%
16129   \begingroup
16130     \csname c@\@mpfn\endcsname #1\relax
16131     \unrestored@protected@xdef\@thefnmark{\thempfn}%
16132   \endgroup
16133   \@footnotemark\@RTLfootnotetext}

```



```

16134 \def\LTRfootnote{\@ifnextchar[\@xLTRfootnote{\stepcounter\@mpfn
16135     \protected@xdef\@thefnmark{\thempfn}%
16136     \@footnotemark\@LTRfootnotetext}}
16137 \def\@xLTRfootnote[#1]{%
16138     \begingroup
16139     \csname c@\@mpfn\endcsname #1\relax
16140     \unrestored@protected@xdef\@thefnmark{\thempfn}%
16141     \endgroup
16142     \@footnotemark\@LTRfootnotetext}
16143
16144
16145 \def\setfootnoteRL{\@RTLfootnotetrue}
16146 \def\unsetfootnoteRL{\@RTLfootnotefalse}
16147 \def\setfootnoteLR{\unsetfootnoteRL}
16148
16149 \newcommand*{\bidi@footnotetext@font}{\footnotesize}
16150 \newcommand*{\bidi@LTRfootnotetext@font}{\footnotesize}
16151 \newcommand*{\bidi@RTLfootnotetext@font}{\footnotesize}
16152
16153 \long\def\@footnotetext#1{\insert\footins{%
16154     \if@RTLfootnote\@RTLtrue\else\@RTLfalse\fi%
16155     \reset@font%
16156     \bidi@footnotetext@font% \reset@font\footnotesize
16157     \interlinepenalty\interfootnotelinepenalty
16158     \splittopskip\footnotesep
16159     \splitmaxdepth \dp\strutbox \floatingpenalty \MM
16160     \hsize\columnwidth \@parboxrestore
16161     \protected@edef\@currentlabel{%
16162         \csname p@footnote\endcsname\@thefnmark
16163     }%
16164     \color@begingroup
16165         \@makefnintext{%
16166             \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16167         \color@endgroup}}}%
16168
16169
16170 \long\def\@RTLfootnotetext#1{\insert\footins{%
16171     \@RTLtrue%
16172     \reset@font%
16173     \bidi@RTLfootnotetext@font% \reset@font\footnotesize
16174     \interlinepenalty\interfootnotelinepenalty
16175     \splittopskip\footnotesep
16176     \splitmaxdepth \dp\strutbox \floatingpenalty \MM
16177     \hsize\columnwidth \@parboxrestore
16178     \protected@edef\@currentlabel{%
16179         \csname p@footnote\endcsname\@thefnmark
16180     }%
16181     \color@begingroup
16182         \@makefnintext{%
16183             \rule{z@footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16184         \color@endgroup}}}%
16185
16186 \long\def\@LTRfootnotetext#1{\insert\footins{%
16187     \@RTLfalse%

```



```

16188 \reset@font%
16189 \bidi@@LTRfootnotetext@font% \reset@font\footnotesize
16190 \interlinepenalty\interfootnotelinepenalty
16191 \splittopskip\footnotesep
16192 \splitmaxdepth \dp\strutbox \floatingpenalty \@MM
16193 \hsize\columnwidth \@parboxrestore
16194 \protected@edef\@currentlabel{%
16195 \csname p@footnote\endcsname\@thefnmark
16196 }%
16197 \color@begingroup
16198 \@makefntext{%
16199 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16200 \color@endgroup}}%
16201
16202 \AtBeginDocument{%
16203 \if@RTL@footnote
16204 \newcommand*{\bidi@footdir@footnote}{R}
16205 \else
16206 \newcommand*{\bidi@footdir@footnote}{L}
16207 \fi%
16208 }
16209
16210 \footdir@temp\footdir@ORG@bidi@footnotetext\@footnotetext{\bidi@footdir@footnote}%
16211 \footdir@temp\footdir@ORG@bidi@RTLfootnotetext\@RTLfootnotetext{R}%
16212 \footdir@temp\footdir@ORG@bidi@LTRfootnotetext\@LTRfootnotetext{L}%
16213
16214 \long\def\@mpRTLfootnotetext#1{%
16215 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\right@footnoterule
16216 \global\setbox\@mpfootins\vbox{%
16217 \unvbox\@mpfootins
16218 \@RTLtrue
16219 \reset@font%
16220 \bidi@@RTLfootnotetext@font% \reset@font\footnotesize
16221 \hsize\columnwidth
16222 \@parboxrestore
16223 \protected@edef\@currentlabel
16224 {\csname p@mpfootnote\endcsname\@thefnmark}%
16225 \color@begingroup
16226 \@makefntext{%
16227 \rule\z@\footnotesep\ignorespaces#1\@finalstrut\strutbox}%
16228 \color@endgroup}}
16229 \long\def\@mplTRfootnotetext#1{%
16230 \ifbidi@autofooterule\ifnum\c@mpfootnote=\@ne\global\let\bidi@mpfootnoterule\left@footnoterule
16231 \global\setbox\@mpfootins\vbox{%
16232 \unvbox\@mpfootins
16233 \@RTLfalse
16234 \reset@font%
16235 \bidi@@LTRfootnotetext@font% \reset@font\footnotesize
16236 \hsize\columnwidth
16237 \@parboxrestore
16238 \protected@edef\@currentlabel
16239 {\csname p@mpfootnote\endcsname\@thefnmark}%
16240 \color@begingroup
16241 \@makefntext{%

```



```

16242      \rule{z@{\footnotesep}\ignorespaces#1\@finalstrut\strutbox}%
16243      \color@endgroup}}
16244 \long\def\@mpfootnotetext#1{%
16245   \ifbidi@autofootnoterule\ifnum\c@mpfootnote=\@ne\if@RTL@footnote\global\let\@bidi@mpfootnote
16246   \global\setbox\@mpfootins\vbox{%
16247     \unvbox\@mpfootins
16248     \if@RTL@footnote\@RTLtrue\else\@RTLfalse\fi
16249     \reset@font%
16250     \bidi@{\footnotetext@font% \reset@font\footnotesize
16251     \hsize\columnwidth
16252     \@parboxrestore
16253     \protected@edef\@currentlabel
16254       {\csname p@mpfootnote\endcsname\@thefnmark}%
16255     \color@begingroup
16256     \@makefnintext{%
16257       \rule{z@{\footnotesep}\ignorespaces#1\@finalstrut\strutbox}%
16258     \color@endgroup}}
16259 \def\@iiiminipage#1#2[#3]#4{%
16260   \leavevmode
16261   \@pboxswfalse
16262   \if@hboxRconstruct\@bidi@list@minipage@parbox@not@nobtrue\fi
16263   \if@RTL\if#1t\@bidi@list@minipage@parboxtrue\else\if#1b\@bidi@list@minipage@parboxtrue\fi
16264   \setlength\@tempdima{#4}%
16265   \def\@mpargs{{#1}{#2}[#3]{#4}}%
16266   \setbox\@tempboxa\vbox\bgroup
16267     \color@begingroup
16268     \hsize\@tempdima
16269     \textwidth\hsize \columnwidth\hsize
16270     \@parboxrestore
16271     \def\@mpfn{\mpfootnote}\def\thempfn{\thempfootnote}\c@mpfootnote\z@
16272     \let\@footnotetext\@mpfootnotetext
16273     \let\@LTRfootnotetext\@mpLTRfootnotetext
16274     \let\@RTLfootnotetext\@mpRTLfootnotetext
16275     \let\@listdepth\@mplistdepth \@mplistdepth\z@
16276     \@minipagerestore
16277     \setminipage}
16278 \def\endminipage{%
16279   \par
16280   \unskip
16281   \ifvoid\@mpfootins\else
16282     \vskip\skip\@mpfootins
16283     \normalcolor
16284     \bidi@mpfootnoterule
16285     \unvbox\@mpfootins
16286   \fi
16287   \@minipagefalse %% added 24 May 89
16288   \color@endgroup
16289   \egroup
16290   \expandafter\@iiiparbox\@mpargs{\unvbox\@tempboxa}}
16291 \def\LTRthanks#1{\footnotemark
16292   \protected@xdef\@thanks{\@thanks
16293     \protect\LTRfootnotetext[\the\c@footnote]{#1}}%
16294 }
16295 \def\LTRfootnotetext{%

```





```

16296 \ifnextchar [\@xLTRfootnotenext
16297 {\protected@xdef\@thefnmark{\thempfn}%
16298 \@LTRfootnotetext}}
16299 \def\@xLTRfootnotenext[#1]{%
16300 \begingroup
16301 \csname c@\@mpfn\endcsname #1\relax
16302 \unrestored@protected@xdef\@thefnmark{\thempfn}%
16303 \endgroup
16304 \@LTRfootnotetext}
16305 \def\RTLthanks#1{\footnotemark
16306 \protected@xdef\@thanks{\@thanks
16307 \protect\RTLfootnotetext[\the\c@footnote]{#1}}%
16308 }
16309 \let\@thanks\@empty
16310 \def\RTLfootnotetext{%
16311 \ifnextchar [\@xRTLfootnotenext
16312 {\protected@xdef\@thefnmark{\thempfn}%
16313 \@RTLfootnotetext}}
16314 \def\@xRTLfootnotenext[#1]{%
16315 \begingroup
16316 \csname c@\@mpfn\endcsname #1\relax
16317 \unrestored@protected@xdef\@thefnmark{\thempfn}%
16318 \endgroup
16319 \@RTLfootnotetext}
16320 \leftfootnoterule

```

## 96 File footnotebackref-xetex-bidi.def

```

16321 \ProvidesFile{footnotebackref-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for footnote]
16322 \LetLtxMacro{\BHFN@OldLTRFootnote}{\LTRfootnote}
16323 \LetLtxMacro{\BHFN@OldRTLFootnote}{\RTLfootnote}
16324
16325 \renewcommand*\LTRfootnote{%
16326 \refstepcounter{BackrefHyperFootnoteCounter}%
16327 \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
16328 \label{\BackrefFootnoteTag}%
16329 \@ifnextchar [\Backref@OptLTRHyperFootnote\Backref@HyperLTRFootnote}
16330
16331 \renewcommand*\RTLfootnote{%
16332 \refstepcounter{BackrefHyperFootnoteCounter}%
16333 \edef\BackrefFootnoteTag{bhfn:\theBackrefHyperFootnoteCounter}%
16334 \label{\BackrefFootnoteTag}%
16335 \@ifnextchar [\Backref@OptRTLHyperFootnote\Backref@HyperRTLFootnote}
16336 \newcommand\Backref@HyperLTRFootnote[1]{%
16337 \BHFN@OldLTRFootnote{\Backref@HyperSymbol#1}}
16338
16339 \newcommand\Backref@HyperRTLFootnote[1]{%
16340 \BHFN@OldRTLFootnote{\Backref@HyperSymbol#1}}
16341
16342 \newcommand\Backref@OptHyperLTRFootnote[2][\empty]{%
16343 \BHFN@OldLTRFootnote[#1]{\Backref@HyperSymbol#2}}
16344
16345 \newcommand\Backref@OptHyperRTLFootnote[2][\empty]{%
16346 \BHFN@OldRTLFootnote[#1]{\Backref@HyperSymbol#2}}

```



```

16347
16348 \bidi@AfterFile{extrafootnotefeatures-xetex-bidi.def}{%
16349 \ifFootnoteBackref@numberlinked
16350 \renewcommand{\footfootmark}{%
16351   \ifdim\footmarkwidth < \z@
16352     \llap{\hb@xt@ -\footmarkwidth{%
16353       \hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16354       \hspace*{ -\footmarkwidth}}}%
16355   \else
16356     \ifdim\footmarkwidth = \z@
16357       {\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16358     \else
16359       \hb@xt@\footmarkwidth{\hss\normalfont\footscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16360     \fi
16361   \fi}
16362 \renewcommand{\LTRfootfootmark}{%
16363   \ifdim\footmarkwidth < \z@
16364     \llap{\hb@xt@ -\footmarkwidth{%
16365       \hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16366       \hspace*{ -\footmarkwidth}}}%
16367   \else
16368     \ifdim\footmarkwidth = \z@
16369       {\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16370     \else
16371       \hb@xt@\footmarkwidth{\hss\normalfont\LTRfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16372     \fi
16373   \fi}
16374 \renewcommand{\RTLfootfootmark}{%
16375   \ifdim\footmarkwidth < \z@
16376     \llap{\hb@xt@ -\footmarkwidth{%
16377       \hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16378       \hspace*{ -\footmarkwidth}}}%
16379   \else
16380     \ifdim\footmarkwidth = \z@
16381       {\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16382     \else
16383       \hb@xt@\footmarkwidth{\hss\normalfont\RTLfootscript{\hyperref[\BackrefFootnoteTag]{\@thefnmark}}}%
16384     \fi
16385   \fi}
16386 \fi
16387 }

```

## 97 File framed-xetex-bidi.def

```

16388 \ProvidesFile{framed-xetex-bidi.def}[2012/06/05 v0.3 bidi adaptations for framed package for
16389 \renewcommand\TitleBarFrame[3][]{\begingroup
16390   \ifx\delimiter#1\delimiter
16391     \let\TF@conlab\@empty
16392   \else
16393     \def\TF@conlab{% continuation label
16394     \nointerlineskip
16395     \smash{\rlap{\kern\wd\@tempboxa\kern\fbboxrule\kern\fbboxsep #1}}}%
16396   \fi
16397   %\let\TF@savecolor\current@color

```



```

16398 \textcolor{TFFrameColor}{%
16399 \CustomFBox
16400   {\TF@Title{#2}}{\TF@conlab}%
16401   \fboxrule\fboxrule\fboxrule\fboxrule
16402   %{\let\current@color\TF@savecolor\set@color #3}%
16403   {\normalcolor #3}%
16404 } \endgroup
16405 }
16406 \renewenvironment{titled-frame}[1]{%
16407   \def\FrameCommand{\fboxsep8pt\fboxrule2pt
16408     \TitleBarFrame{\textbf{#1}}}%
16409   \def\FirstFrameCommand{\fboxsep8pt\fboxrule2pt
16410     \TitleBarFrame[{$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$}]{\textbf{#1}}}%
16411   \def\MidFrameCommand{\fboxsep8pt\fboxrule2pt
16412     \TitleBarFrame[{$\if@RTL\blacktriangleleft\else\blacktriangleright\fi$}]{\textbf{#1\ (con
16413   \def\LastFrameCommand{\fboxsep8pt\fboxrule2pt
16414     \TitleBarFrame{\textbf{#1\ (cont)}}}%
16415   \MakeFramed{\advance\hsize-20pt \FrameRestore}}%
16416 % note: 8 + 2 + 8 + 2 = 20. Don't use \width because the frame title
16417 % could interfere with the width measurement.
16418 {\endMakeFramed}
16419 \chardef\FrameRestore=\catcode`\| % for debug
16420 \catcode`\|=\catcode`\% % (debug: insert space after backslash)
16421 \def\fb@put@frame#1#2{\relax
16422   \ifdim\pagegoal=\maxdimen \pagegoal\vsizel\fi
16423   \message{===== Entering putframe =====^J
16424   | \pagegoal=\the\pagegoal, \pagetotal=\the\pagetotal.}%
16425   \ifinner
16426     \fb@putboxa#1%
16427     \fb@afterframe
16428   \else
16429     \dimen@=\pagegoal \advance\dimen@-\pagetotal % natural space left on page
16430     \ifdim\dimen@<2\baselineskip % Too little room on page
16431     | \message{Page has only \the\dimen@space room left; eject.}%
16432     \eject \fb@adjheight \fb@put@frame#1#2%
16433     \else % there's appreciable room left on the page
16434       \fb@sizeofframe#1%
16435       | \message{\string\pagetotal=\the\pagetotal,
16436       | \string\pagegoal=\the\pagegoal,
16437       | \string\pagestretch=\the\pagestretch,
16438       | \string\pageshrink=\the\pageshrink,
16439       | \string\fb@frh=\the\fb@frh. \space}
16440       | \message{^^JBox of size \the\ht@tempboxa\space}%
16441       \begingroup % temporarily set \dimen@ to be...
16442       \advance\dimen@.8\pageshrink % maximum space available on page
16443       \advance\dimen@-\fb@frh\relax % max space available for frame's contents
16444 %%% LOOKS SUBTRACTED AND ADDED, SO DOUBLE ACCOUNTING!
16445       \expandafter\endgroup
16446       % expand \ifdim, then restore \dimen@ to real room left on page
16447       \ifdim\dimen@>\ht@tempboxa % whole box does fit
16448       | \message{fits in \the\dimen@.}%
16449       % ToDo: Change this to use vsplit anyway to capture the marks
16450       % MERGE THIS WITH THE else CLAUSE!!!
16451       \fb@putboxa#1%

```



```

16452      \fb@afterframe
16453 \else % box must be split
16454 |      \message{must be split to fit in \the\dimen@.}%
16455      % update frame measurement to use \FirstFrameCommand or \MidFrameCommand
16456      \fb@sizeofframe#2%
16457      \setbox\@tempboxa\vbox{% simulate frame and flexibility of the page:
16458          \vskip \fb@frh \@plus\pagestretch \@minus.8\pageshrink
16459          \kern137sp\kern-137sp\penalty-30
16460          \unvbox\@tempboxa}%
16461      \edef\fb@resto@set{\boxmaxdepth\the\boxmaxdepth
16462          \splittopskip\the\splittopskip}%
16463      \boxmaxdepth\z@ \splittopskip\z@
16464 | \message{^^J Padded box of size \the\ht\@tempboxa\space split to \the\dimen@}%
16465      % Split box here
16466      \setbox\@tw@ \vsplit\@tempboxa to\dimen@
16467 | \toks99\expandafter{\splitfirstmark}%
16468 | \toks98\expandafter{\splitbotmark}%
16469 | \message{Marks are: \the\toks99, \the\toks98.}%
16470      \setbox\@tw@ \vbox{\unvbox\@tw@}% natural-sized
16471 | \message{Natural height of split box is \the\ht\@tw@, leaving
16472 | \the\ht\@tempboxa\space remainder.}%
16473      % If the split-to size > (\vsize-\topskip), then set box to full size.
16474      \begingroup
16475      \advance\dimen@\topskip
16476      \expandafter\endgroup
16477      \ifdim\dimen@>\pagegoal
16478 | \message{Frame is big -- Use up the full column.}%
16479      \dimen@ii\pagegoal
16480      \advance\dimen@ii -\topskip
16481      \advance\dimen@ii \FrameHeightAdjust\relax
16482      \else % suspect this is implemented incorrectly:
16483      % If the split-to size > feasible room_on_page, rebox it smaller.
16484      \advance\dimen@.8\pageshrink
16485      \ifdim\ht\@tw@>\dimen@
16486 | \message{Box too tall; rebox it to \the\dimen@.}%
16487      \dimen@ii\dimen@
16488      \else % use natural size
16489      \dimen@ii\ht\@tw@
16490      \fi
16491      \fi
16492      % Re-box contents to desired size \dimen@ii
16493      \advance\dimen@ii -\fb@frh
16494      \setbox\@tw@ \vbox to\dimen@ii \bgroup
16495      % remove simulated frame and page flexibility:
16496      \vskip -\fb@frh \@plus-\pagestretch \@minus-.8\pageshrink
16497      \unvbox\@tw@ \unpenalty\unpenalty
16498      \ifdim\lastkern=-137sp % whole box went to next page
16499 | \message{box split at beginning!}%
16500      % need work here???
16501      \egroup \fb@resto@set \eject % (\vskip for frame size was discarded)
16502      \fb@adjheight
16503      \fb@put@frame#1#2% INSERTED ???
16504      \else % Got material split off at the head
16505      \egroup \fb@resto@set

```



```

16506         \ifvoid\@tempboxa % it all fit after all
16507 |         \message{box split at end! }%
16508         \setbox\@tempboxa\box\tw@
16509         \fb@putboxa#1%
16510         \fb@afterframe
16511     \else % it really did split
16512 |         \message{box split as expected. Its reboxed height is \the\ht\tw@. }%
16513         \ifdim\wd\tw@>\z@
16514             \wd\tw@\wd\@tempboxa
16515             \centerline{#2{\hboxL{\box\tw@}}}% ??? \centerline bad idea
16516         \else
16517 |         \message{Zero width means likely blank. Don't frame it (guess)}%
16518             \box\tw@
16519         \fi
16520         \hrule \@height\z@ \@width\hsize
16521         \eject
16522         \fb@adjheight
16523         \fb@put@frame\LastFrameCommand\MidFrameCommand
16524     \fi\fi\fi\fi\fi
16525 }
16526 \def\fb@putboxa#1{%
16527     \ifvoid\@tempboxa
16528         \PackageWarning{framed}{Boxa is void -- discard it. }%
16529     \else
16530 |         \message{Frame and place boxa. }%
16531 |         %{\showoutput\showbox\@tempboxa}%
16532         \centerline{#1{\hboxL{\box\@tempboxa}}}%
16533     \fi
16534 }
16535 \catcode\|= \FrameRestore
16536 \def\FrameRestore{%
16537     \let\if@nobreak\iffalse
16538     \let\if@noskipsec\iffalse
16539     \let\-\@dischph
16540     \let'\@acci\let\` \@accii\let\=\@acciii
16541     % \message{FrameRestore:
16542     % \totalleftmargin=\the \@totalleftmargin,
16543     % \rightmargin=\the\rightmargin,
16544     % \listdepth=\the\listdepth. }%
16545     % Test if we are in a list (or list-like paragraph)
16546     \ifnum \ifdim\@totalleftmargin>\z@ 1\fi
16547         \ifdim\rightmargin>\z@ 1\fi
16548         \ifnum\listdepth>\z@ 1\fi 0>\z@
16549     % \message{In a list: \linewidth=\the\linewidth, \@totalleftmargin=\the\@totalleftmargin,
16550     % \parshape=\the\parshape, \columnwidth=\the\columnwidth, \hsize=\the\hsize,
16551     % \labelwidth=\the\labelwidth. }%
16552     \@setminipage % snug fit around the item
16553     % Now try to propagate changes of width from \hsize to list parameters.
16554     % This is deficient, but a more advanced way to indicate modification to text
16555     % dimensions is not (yet) provided; in particular, no separate left/right
16556     % adjustment.
16557     \advance\linewidth-\columnwidth \advance\linewidth\hsize
16558     \parshape\@ne \@totalleftmargin \linewidth
16559     \else % Not in list

```



```

16560     \linewidth=\hsize
16561     %\message{No list, set \string\linewidth=\the\hsize. }%
16562     \fi
16563     \sloppy
16564 }

```

## 98 File ftnright-xetex-bidi.def

```

16565 \ProvidesFile{ftnright-xetex-bidi.def}[2018/09/29 v0.6 bidi adaptations for ftnright package]
16566
16567 \def\prepare@bidi@copyins{%
16568   \global\bidircol@copyinsskip\skip\@bidi@copyins@
16569   \global\skip\@bidi@copyins@\z@
16570   \global\count\@bidi@copyins@\z@
16571   \global\dimen\@bidi@copyins@\textheight}
16572
16573 \newskip\bidircol@copyinsskip
16574
16575 \def\LTR@outputdblcol{%
16576   \if@firstcolumn
16577     \global\@firstcolumnfalse
16578     \global\setbox\@leftcolumn\copy\@outputbox
16579     \global\count\footins\@m
16580     \global\skip\footins\rcol@footinsskip
16581     \global\count\@bidi@copyins@\@m
16582     \global\skip\@bidi@copyins@\bidircol@copyinsskip
16583     \splitmaxdepth\maxdimen
16584     \vbadness\maxdimen
16585     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
16586     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
16587     \toks@\expandafter{\topmark}%
16588     \xdef\@firstcoltopmark{\the\toks@}%
16589     \toks@\expandafter{\splitfirstmark}%
16590     \xdef\@firstcolfirstmark{\the\toks@}%
16591     \ifx\@firstcolfirstmark\@empty
16592       \global\let\@setmarks\relax
16593     \else
16594       \gdef\@setmarks{%
16595         \let\firstmark\@firstcolfirstmark
16596         \let\topmark\@firstcoltopmark}%
16597     \fi
16598   \else
16599     \preparefootins
16600     \prepare@bidi@copyins
16601     \global\@firstcolumntrue
16602     \setbox\@outputbox\vbox{%
16603       \hb@xt@\textwidth{%
16604         \hb@xt@\columnwidth{%
16605           \bidi@firstcolumn@status@write%
16606           \box\@leftcolumn \hss}%
16607         \hfil
16608         {\normalcolor\vrule \@width\columnseprule}%
16609         \hfil
16610         \hb@xt@\columnwidth{%

```



```

16611         \bidi@lastcolumn@status@write%
16612         \box\@outputbox \hss}}}%
16613 \@combinedblfloats
16614     \@setmarks
16615     \@outputpage
16616     \begingroup
16617         \@dblfloatplacement
16618         \@startdblcolumn
16619         \@whiles\if@fcolmade \fi{\@outputpage
16620         \@startdblcolumn}%
16621     \endgroup
16622 \fi}%
16623
16624 \def\RTL@outputdblcol{%
16625     \if@firstcolumn
16626         \global\@firstcolumnfalse
16627         \global\setbox\@leftcolumn\copy\@outputbox
16628         \global\count\footins\@m
16629         \global\skip\footins\rcol@footinsskip
16630         \global\count\@bidi@copyins\@m
16631         \global\skip\@bidi@copyins\@bidi@rcol@copyinsskip
16632         \splitmaxdepth\maxdimen
16633         \vbadness\maxdimen
16634         \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
16635         \setbox\@outputbox\vsplit\@outputbox to\maxdimen
16636         \toks@{\expandafter{\topmark}}%
16637         \xdef\@firstcoltopmark{\the\toks@}%
16638         \toks@\expandafter{\splitfirstmark}%
16639         \xdef\@firstcolfirstmark{\the\toks@}%
16640         \ifx\@firstcolfirstmark\@empty
16641             \global\let\@setmarks\relax
16642         \else
16643             \gdef\@setmarks{%
16644                 \let\firstmark\@firstcolfirstmark
16645                 \let\topmark\@firstcoltopmark}%
16646         \fi
16647     \else
16648         \preparefootins
16649         \prepare@bidi@copyins
16650         \global\@firstcolumntrue
16651         \setbox\@outputbox\vbox{%
16652             \hb@xt@\textwidth{%
16653                 \hskip \columnwidth
16654                 \hfil
16655                 {\normalcolor\vrule \@width\columnseprule}%
16656                 \hfil
16657                 \hb@xt@\columnwidth{%
16658                     \bidi@firstcolumn@status@write%
16659                     \box\@leftcolumn \hss}%
16660                 \hskip -\textwidth
16661                 \hb@xt@\columnwidth{%
16662                     \bidi@lastcolumn@status@write%
16663                     \box\@outputbox \hss}%
16664                 \hskip \columnsep

```



```

16665      \hskip \columnwidth }}%
16666 \@@combinedblfloats
16667      \@setmarks
16668      \@outputpage
16669      \beginngroup
16670      \@dblfloatplacement
16671      \@startdblcolumn
16672      \@whilesw\if@fcolmade \fi{\@outputpage
16673      \@startdblcolumn}%
16674      \endgroup
16675 \fi}%
16676
16677 \def\@startcolumn{%
16678 \ifx\@deferlist\@empty
16679 \global\@fcolmadefalse
16680 \global\@colroom\@colht
16681 \else
16682 \ifvoid\footins\else
16683 \ftn@amount\ht\footins
16684 \advance\ftn@amount\dp\footins
16685 \advance\ftn@amount\skip\footins
16686 \fi
16687 \ifvoid\@bidi@copyins\else
16688 \bidi@copyins@amount\ht\@bidi@copyins@
16689 \advance\bidi@copyins@amount\dp\@bidi@copyins@
16690 \advance\bidi@copyins@amount\skip\@bidi@copyins@
16691 \fi
16692 \global\advance\@colht-\ftn@amount
16693 \global\advance\@colht-\bidi@copyins@amount
16694 \global\@colroom\@colht
16695 \xstartcol
16696 \global\advance\@colht\ftn@amount
16697 \global\advance\@colroom\ftn@amount
16698 \global\advance\@colht\bidi@copyins@amount
16699 \global\advance\@colroom\bidi@copyins@amount
16700 \fi
16701 \if@fcolmade
16702 \setbox\@cclv\box\@outputbox
16703 \makecol
16704 \else
16705 \ifvoid\footins\else
16706 \insert\footins{\unvbox\footins}\fi
16707 \ifvoid\@bidi@copyins\else
16708 \insert\@bidi@copyins{\unvbox\@bidi@copyins}\fi
16709 \fi}
16710
16711 \newdimen\bidi@copyins@amount
16712
16713 \def\@makecol{\if@firstcolumn
16714 \setbox\@outputbox\box\@cclv
16715 \if@twocolumn \else
16716 \ifvoid\footins \else
16717 \latexerr{ftnright package
16718 used in one-column mode}%

```





```

16719 {The ftnright package was designed to
16720 work with LaTeX's standard^^Jtwocolumn
16721 option. It does *not* work with the
16722 multicol package.^^JSo please specify
16723 `twocolumn' in the
16724 \noexpand\documentclass command.}%
16725 \shipout\box\footins \fi
16726 \ifvoid\@bidi@copyins@ \else
16727 \latexerr{ftnright package
16728 used in one-column mode}%
16729 {The ftnright package was designed to
16730 work with LaTeX's standard^^Jtwocolumn
16731 option. It does *not* work with the
16732 multicol package.^^JSo please specify
16733 `twocolumn' in the
16734 \noexpand\documentclass command.}%
16735 \shipout\box\@bidi@copyins@ \fi\fi
16736 \ifnum\insertpenalties>\z@
16737 \latexerr{ftnright package
16738 scrambled footnotes}%
16739 {There is too much footnote material in
16740 the first column and ftnright^^Jis
16741 unable to cope with this.^^JYou need
16742 to reduce the amount to get a properly
16743 formatted page.}%
16744 \fi
16745 \else
16746 \ifvoid\footins
16747 \ifvoid\@bidi@copyins@
16748 \setbox\@outputbox\box\@cclv
16749 \else
16750 \setbox\@outputbox\vbox
16751 {\ifvoid\@cclv \else
16752 \unvbox\@cclv
16753 \vskip \skip\@bidi@copyins@
16754 \fi
16755 \color@begingroup
16756 \normalcolor
16757 \unvbox \@bidi@copyins@
16758 \color@endgroup}}%
16759 \fi
16760 \else
16761 \setbox\@outputbox\vbox
16762 {\ifvoid\@cclv \else
16763 \unvbox\@cclv
16764 \vskip\skip\footins\fi
16765 \color@begingroup
16766 \normalcolor
16767 \footnoterule\unvbox\footins
16768 \color@endgroup
16769 \ifvoid\@bidi@copyins@
16770 \else
16771 \vskip \skip\@bidi@copyins@
16772 \color@begingroup

```



```

16773         \normalcolor
16774         \unvbox \@bidi@copyins@
16775         \color@endgroup
16776     \fi
16777 }%
16778 \fi
16779 \fi
16780 \xdef\@freelist{\@freelist\@midlist}%
16781 \global \let \@midlist \@empty
16782 \@combinefloats
16783 \ifvbox\@kludgeins
16784     \@makespecialcolbox
16785 \else
16786     \setbox\@outputbox\vbox to\@colht
16787     {\boxmaxdepth\maxdepth
16788     \@texttop
16789     \@tempdima\dp\@outputbox
16790     \unvbox\@outputbox
16791     \vskip-\@tempdima
16792     \@textbottom}%
16793 \fi
16794 \global\maxdepth\@maxdepth}
16795
16796 \let\leftfootnoterule\@empty
16797 \let\rightfootnoterule\@empty
16798 \let\textwidthfootnoterule\@empty
16799 \let\autofootnoterule\@empty
16800 \let\footnoterule\@empty
16801 \long\def\@makefnmark#1{\parindent 1em
16802     \noindent\hbox to 2em{}}%
16803     \llap{\@thefnmark\hbox{.}\,\,\,}#1}
16804
16805 \setlength{\skip\@bidi@copyins@}
16806         {10pt plus 5pt minus 3pt}
16807 \AtBeginDocument{\prepare@bidi@copyins}

```

## 99 File graphicx-xetex-bidi.def

```

16808 \ProvidesFile{graphicx-xetex-bidi.def}[2017/06/17 v0.5 bidi adaptations for graphicx package]
16809 \def\Grot@box@std#1#2{\ifmmode\else\if@RTL\beginL\fi\fi%
16810     \Grot@setangle{#1}%
16811     \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#2\if@RTL\endR\fi\else\if@RTL\beginR\fi#2\if@RTL\endR\fi}%
16812     \Grot@x\z@
16813     \Grot@y\z@
16814     \Grot@box\ifmmode\else\if@RTL\endL\fi\fi}
16815 \long\def\Grot@box@kv[#1]#2#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16816     \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
16817     \Grot@x\width \divide\Grot@x\tw@
16818     \Grot@y\height \advance\Grot@y-\depth \divide\Grot@y\tw@
16819     \setkeys{Grot}{#1}%
16820     \setbox\z@\box\@tempboxa
16821     \Grot@setangle{#2}%
16822     \Grot@box\ifmmode\else\if@RTL\endL\fi\fi
16823     \@end@tempboxa}

```



```

16824 \long\def\Gscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16825 \leavevmode
16826 \def\Gscale@x{#1}\def\Gscale@y{#2}%
16827 \setbox\z@\hbox{#3}%
16828 \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
16829 \ifdim#2\p@<\z@
16830 \ht\tw@-#2\dp\z@
16831 \dp\tw@-#2\ht\z@
16832 \else
16833 \ht\tw@#2\ht\z@
16834 \dp\tw@#2\dp\z@
16835 \fi
16836 \ifdim#1\p@<\z@
16837 \hb@xt@-#1\wd\z@{\kern-#1\wd\z@\box\tw@\hss}%
16838 \else
16839 \wd\tw@#1\wd\z@
16840 \box\tw@
16841 \fi\ifmmode\else\if@RTL\endL\fi\fi}
16842 \def\Gin@iii[#1,#2][#3,#4]#5{%
16843 \begingroup
16844 \ifmmode\else\if@RTL\beginL\fi\fi
16845 \Gin@bboxtrue
16846 \Gin@defaultbp\Gin@llx{#1}%
16847 \Gin@defaultbp\Gin@lly{#2}%
16848 \Gin@defaultbp\Gin@urx{#3}%
16849 \Gin@defaultbp\Gin@ury{#4}%
16850 \Gin@include@graphics{#5}%
16851 \ifmmode\else\if@RTL\endL\fi\fi
16852 \endgroup}
16853 \def\Gin@ii[#1]#2{%
16854 \def\@tempa{[]}\def\@tempb{#2}%
16855 \ifx\@tempa\@tempb
16856 \def\@tempa{\Gin@iii[#1]{}%
16857 \expandafter\@tempa
16858 \else
16859 \begingroup
16860 \ifmmode\else\if@RTL\beginL\fi\fi
16861 \@tempswafalse
16862 \toks@{\Gin@include@graphics{#2}}%
16863 \setkeys{Gin}{#1}%
16864 \Gin@esetsize
16865 \the\toks@
16866 \ifmmode\else\if@RTL\endL\fi\fi
16867 \endgroup
16868 \fi}
16869 \def\reflectbox{\bidiGscale@box-1[1]}
16870 \long\def\bidiGscale@box#1[#2]#3{\ifmmode\else\if@RTL\beginL\fi\fi%
16871 \leavevmode
16872 \def\Gscale@x{#1}\def\Gscale@y{#2}%
16873 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL
16874 \setbox\tw@\hbox{\Gscale@start\rlap{\copy\z@}\Gscale@end}%
16875 \ifdim#2\p@<\z@
16876 \ht\tw@-#2\dp\z@
16877 \dp\tw@-#2\ht\z@

```



```

16878 \else
16879 \ht\tw@#2\ht\z@
16880 \dp\tw@#2\dp\z@
16881 \fi
16882 \ifdim#1\p@<\z@
16883 \hb@xt@-#1\wd\z@{\kern-#1\wd\z@ \box\tw@ \hss}%
16884 \else
16885 \wd\tw@#1\wd\z@
16886 \box\tw@
16887 \fi\ifmmode\else\if@RTL\endL\fi\fi}
16888 \def\scalebox#1{%
16889 \@ifnextchar[{\bidiGscale@box{#1}}{\bidiGscale@box{#1}[#1]}}
16890 \def\resizebox{%
16891 \leavevmode
16892 \@ifstar{\bidiGscale@@box\totalheight}{\bidiGscale@@box\height}}
16893 \def\bidiGscale@@box#1#2#3{%
16894 \let\@tempa\Gin@exclamation
16895 \expandafter\def\expandafter\@tempb\expandafter{\string#2}%
16896 \expandafter\def\expandafter\@tempc\expandafter{\string#3}%
16897 \ifx\@tempb\@tempa
16898 \ifx\@tempc\@tempa
16899 \toks@{\mbox}%
16900 \else
16901 \toks@{\bidiGscale@box@dd{#3}#1}%
16902 \fi
16903 \else
16904 \ifx\@tempc\@tempa
16905 \toks@{\bidiGscale@box@dd{#2}\width}%
16906 \else
16907 \toks@{\bidiGscale@box@dddd{#2}\width{#3}#1}%
16908 \fi
16909 \fi
16910 \the\toks@}
16911 \long\def\bidiGscale@box@dd#1#2#3{%
16912 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#3\if@RTL\endR\fi\else\if@RTL\beginR\fi#3\if@RTL\endR\fi}%
16913 \setlength\@tempdima{#1}%
16914 \setlength\@tempdimb{#2}%
16915 \Gscale@div\@tempa\@tempdima\@tempdimb
16916 \Gscale@box\@tempa[\@tempa]{\box\@tempboxa}%
16917 \@end@tempboxa}
16918 \long\def\bidiGscale@box@dddd#1#2#3#4#5{%
16919 \@begin@tempboxa\hbox{\ifmmode\if@RTL\beginR\fi#5\if@RTL\endR\fi\else\if@RTL\beginR\fi#5\if@RTL\endR\fi}%
16920 \setlength\@tempdima{#1}%
16921 \setlength\@tempdimb{#2}%
16922 \Gscale@div\@tempa\@tempdima\@tempdimb
16923 \setlength\@tempdima{#3}%
16924 \setlength\@tempdimb{#4}%
16925 \Gscale@div\@tempb\@tempdima\@tempdimb
16926 \ifGin@iso
16927 \ifdim\@tempa\p@>\@tempb\p@
16928 \let\@tempa\@tempb
16929 \else
16930 \let\@tempb\@tempa
16931 \fi

```



```

16932 \fi
16933 \Gscale@box\@tempa[\@tempb]{\box\@tempboxa}%
16934 \@end@tempboxa}

```

## 100 File geometry-xetex-bidi.def

```

16935 \ProvidesFile{geometry-xetex-bidi.def}[2017/01/14 v0.2 bidi adaptations for geometry package]
16936 \renewcommand*{\Gm@vrules@mpi}{%
16937 \if@RTLmain%
16938     \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
16939     \llap{\Gm@vrule}\ignorespaces
16940     \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
16941     \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}%
16942 \else%
16943     \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
16944     \hskip \textwidth\Gm@vrule\hskip \marginparsep
16945     \llap{\Gm@vrule}\hfil\Gm@vrule}\fi}%
16946 \renewcommand*{\Gm@vrules@mpii}{%
16947 \if@RTLmain%
16948     \hb@xt@\@tempdima{\llap{\Gm@vrule}\ignorespaces
16949     \hskip \textwidth\Gm@vrule\hskip \marginparsep
16950     \llap{\Gm@vrule}\hfil\Gm@vrule}%
16951 \else%
16952     \hb@xt@\@tempdima{\hskip-\marginparwidth\hskip-\marginparsep
16953     \llap{\Gm@vrule}\ignorespaces
16954     \hskip \marginparwidth\rlap{\Gm@vrule}\hskip \marginparsep
16955     \llap{\Gm@vrule}\hskip\textwidth\rlap{\Gm@vrule}\hss}\fi}%
16956 \bidi@patchcmd{\Gm@pageframes}{%
16957     \ifodd\count\z@
16958     \let\@themargin\oddsidemargin
16959     \else
16960     \let\@themargin\evensidemargin
16961     \fi
16962 }{%
16963     \ifodd\count\z@
16964     \if@RTLmain
16965     \let\@themargin\evensidemargin
16966     \else
16967     \let\@themargin\oddsidemargin
16968     \fi
16969     \else
16970     \if@RTLmain
16971     \let\@themargin\oddsidemargin
16972     \else
16973     \let\@themargin\evensidemargin
16974     \fi
16975     \fi
16976 }{}{}

```

## 101 File hvfloat-xetex-bidi.def

```

16977 \ProvidesFile{hvfloat-xetex-bidi.def}[2012/04/18 v0.2 bidi adaptations for hvfloat package]
16978 \def\do@hvFloat[#1]#2#3{%
16979 \def\hv@shortCap{#1}

```



```

16980 \def\hv@longCap{#2}
16981 \def\hv@label{#3}
16982 %\newcommand*{\hvFloat}[5][]{%
16983 % [#1]: keyvalues
16984 % #2: type figure | table | ...
16985 % #3: float contents
16986 % [#4]: short caption
16987 % #5: caption
16988 % #6: label
16989 % \setDefaults%
16990 % \def\@tempa{#1}%
16991 % \ifx\@tempa\empty\else\setkeys{hvSet}{#1}\fi% set options, only when not empty
16992 \def\@tempa{90}%
16993 \ifx\hvSet@rotAngle\@tempa \setlength{\hvMaxCapWidth}{\textheight}
16994 \else \setlength{\hvMaxCapWidth}{\linewidth}
16995 \fi
16996 %
16997 % First we save the object in \hvObjectBox
16998 %
16999 \ifx\hvSet@objectAngle\hv@Zero % rotate the object?
17000 \savebox{\hvObjectBox}{\ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}
17001 \else
17002 \savebox{\hvObjectBox}{%
17003 \rotatebox{\hvSet@objectAngle}{%
17004 \ifhv@useOBox\usebox{\hvOBox}\else\hv@floatObject\fi}}
17005 \fi
17006 \setlength{\hvObjectWidth}{\wd\hvObjectBox}
17007 %
17008 % Now we save the caption with its defined \hvCapWidth
17009 %
17010 \ifx\hvSet@capWidth\hv@Width\setlength{\hvCapWidth}{\hvObjectWidth}
17011 \else
17012 \ifx\hvSet@capWidth\hv@Height\setlength{\hvCapWidth}{\ht\hvObjectBox}
17013 \else
17014 \setlength{\hvCapWidth}{\hvObjectWidth}
17015 \ifx\hvSet@capPos\hv@Left\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
17016 \ifx\hvSet@capPos\hv@Right\addtolength{\hvMaxCapWidth}{-\hvObjectWidth}\fi
17017 \ifdim\hvSet@capWidth\columnwidth<\hvMaxCapWidth
17018 \setlength{\hvCapWidth}{\hvSet@capWidth\columnwidth}
17019 \else
17020 \setlength{\hvCapWidth}{\hvMaxCapWidth}
17021 \fi
17022 \fi
17023 \fi
17024 %
17025 % now we have the object and the caption with the right
17026 % rotated angles saved in boxes
17027 %
17028 \def\fps@figure{\hvSet@floatPos}
17029 \ifhv@nonFloat\begin{group}% Start the nonfloat part
17030 \else \begin{\hv@floatType}% Start the floating environment
17031 \fi%
17032 \saveCaptionSkip% we put this space ourselves
17033 \ifx\hvSet@capAngle\hv@Width % need rotation?

```



```

17034 \sbox{\hvCaptionBox}{%
17035 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
17036 \ifhv@nonFloat%
17037 \ifhv@onlyText#2%
17038 \else%
17039 \ifx\hv@floatType\hv@figure
17040 \ifx\relax#1\relax \figcaption{#2}\else\figcaption{#1}{#2}\fi
17041 \else
17042 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption{#1}{#2}\fi%
17043 \fi
17044 \fi
17045 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption{#1}{#2}\fi%
17046 \fi%
17047 \label{#3}%
17048 \end{minipage}%
17049 }%
17050 \else%
17051 \sbox{\hvCaptionBox}{%
17052 \rotatebox{\hvSet@capAngle}{%
17053 \begin{minipage}[b]{\hvCapWidth}% minipage, to get hyphenation
17054 \ifhv@nonFloat%
17055 \ifhv@onlyText#2%
17056 \else%
17057 \ifx\hv@floatType\hv@figure
17058 \ifx\relax#1\relax \figcaption{#2}\else\figcaption{#1}{#2}\fi
17059 \else
17060 \ifx\relax#1\relax \tabcaption{#2}\else\tabcaption{#1}{#2}\fi%
17061 \fi
17062 \fi
17063 \else\ifx\relax\hv@shortCap\relax\caption{#2}\else\caption{#1}{#2}\fi%
17064 \fi%
17065 \label{#3}%
17066 \end{minipage}%
17067 }%
17068 }%
17069 \fi%
17070 %%
17071 \restoreCaptionSkip% save old values
17072 \ifx\hvSet@objectPos\hv@Right\@bidi@raggedleft%
17073 \else%
17074 \ifx\hvSet@objectPos\hv@Center
17075 \ifhv@nonFloat\hspace*{\fill}\else\centering\fi%
17076 \fi%
17077 \fi%
17078 %
17079 % to rotate object and caption together, we save all in another box
17080 % the caption comes first, if its on the left or the top
17081 %
17082 \savebox{\@tempboxa}{%
17083 \ifx\hvSet@capPos\hv@Left % caption on left side
17084 \if@RTL%
17085 \ifx\hvSet@capVPos\hv@Center%
17086 \ifhv@fbox
17087 \fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}}

```



```

17088     \else
17089     \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17090     \fi%
17091     \hspace{\hvSet@floatCapSep pt}%
17092     \ifhv@fbox
17093     \fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17094     \else
17095     \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
17096     \fi%
17097 \else%
17098 \ifx\hvSet@capVPos\hv@Top
17099 \ifhv@fbox
17100 \fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17101 \else
17102 \raisebox{-\height}{\usebox{\hvObjectBox}}%
17103 \fi%
17104 \hspace{\hvSet@floatCapSep pt}%
17105 \ifhv@fbox
17106 \fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17107 \else
17108 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17109 \fi
17110 \else
17111 \ifhv@fbox
17112 \fbox{\usebox{\hvObjectBox}}%
17113 \else
17114 \usebox{\hvObjectBox}%
17115 \fi
17116 \hspace{\hvSet@floatCapSep pt}%
17117 \ifhv@fbox
17118 \fbox{\usebox{\hvCaptionBox}}%
17119 \else
17120 \usebox{\hvCaptionBox}%
17121 \fi%
17122 \fi%
17123 \fi%
17124 \else% not RTL
17125 \ifx\hvSet@capVPos\hv@Center%
17126 \ifhv@fbox\fbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17127 \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
17128 \fi%
17129 \hspace{\hvSet@floatCapSep pt}% capfloatsep
17130 \ifhv@fbox\fbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}%
17131 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17132 \fi%
17133 \else%
17134 \ifx\hvSet@capVPos\hv@Top % caption at top
17135 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17136 \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17137 \fi
17138 \hspace{\hvSet@floatCapSep pt}% capfloatsep
17139 \ifhv@fbox\fbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17140 \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
17141 \fi%

```





```

17142 \else% caption on bottom
17143 \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
17144 \else\usebox{\hvCaptionBox}
17145 \fi%
17146 \hspace{\hvSet@floatCapSep pt}%
17147 \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
17148 \else \usebox{\hvObjectBox}
17149 \fi%
17150 \fi%
17151 \fi% end of RTL
17152 \fi%
17153 \else
17154 \ifx\hvSet@capPos\hv@Top
17155 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
17156 \begin{minipage}{\wd\hvCaptionBox}
17157 \else
17158 \begin{minipage}{\wd\hvObjectBox}
17159 \fi
17160 \centering
17161 \ifhv@fbox
17162 \fbbox{\usebox{\hvCaptionBox}}\[\hvBelowCaptionSkip]
17163 \fbbox{\usebox{\hvObjectBox}}
17164 \else
17165 \usebox{\hvCaptionBox}\[\hvBelowCaptionSkip]
17166 \usebox{\hvObjectBox}
17167 \fi%
17168 \end{minipage}
17169 \else
17170 \ifx\hvSet@capPos\hv@Bottom
17171 \ifdim\wd\hvCaptionBox>\wd\hvObjectBox
17172 \begin{minipage}{\wd\hvCaptionBox}
17173 \else
17174 \begin{minipage}{\wd\hvObjectBox}
17175 \fi
17176 \centering
17177 \ifhv@fbox
17178 \fbbox{\usebox{\hvObjectBox}}\[\hvAboveCaptionSkip]
17179 \fbbox{\usebox{\hvCaptionBox}}
17180 \else
17181 \usebox{\hvObjectBox}\[\hvAboveCaptionSkip]
17182 \usebox{\hvCaptionBox}
17183 \fi%
17184 \end{minipage}
17185 \else% the last option: put the caption on the right
17186 \if@RTL%
17187 \ifx\hvSet@capVPos\hv@Center%
17188 \ifhv@fbox\fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17189 \else \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}%
17190 \fi%
17191 \hspace{\hvSet@floatCapSep pt}% capfloatsep
17192 \ifhv@fbox\fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
17193 \else \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17194 \fi%
17195 \else%

```



```

17196 \ifx\hvSet@capVPos\hv@Top % caption at top
17197 \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17198 \else \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17199 \fi
17200 \hspace{\hvSet@floatCapSep pt}% capfloatsep
17201 \ifhv@fbox\fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17202 \else \raisebox{-\height}{\usebox{\hvObjectBox}}%
17203 \fi%
17204 \else% caption on bottom
17205 \ifhv@fbox\fbbox{\usebox{\hvCaptionBox}}
17206 \else\usebox{\hvCaptionBox}
17207 \fi%
17208 \hspace{\hvSet@floatCapSep pt}%
17209 \ifhv@fbox\fbbox{\usebox{\hvObjectBox}}
17210 \else \usebox{\hvObjectBox}
17211 \fi%
17212 \fi%
17213 \fi%
17214 \else% not RTL
17215 \ifx\hvSet@capVPos\hv@Center%
17216 \ifhv@fbox
17217 \fbbox{\parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}}
17218 \else
17219 \parbox{\wd\hvObjectBox}{\usebox{\hvObjectBox}}
17220 \fi%
17221 \hspace{\hvSet@floatCapSep pt}%
17222 \ifhv@fbox
17223 \fbbox{\parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}}%
17224 \else
17225 \parbox{\wd\hvCaptionBox}{\usebox{\hvCaptionBox}}
17226 \fi%
17227 \else%
17228 \ifx\hvSet@capVPos\hv@Top
17229 \ifhv@fbox
17230 \fbbox{\raisebox{-\height}{\usebox{\hvObjectBox}}}%
17231 \else
17232 \raisebox{-\height}{\usebox{\hvObjectBox}}%
17233 \fi%
17234 \hspace{\hvSet@floatCapSep pt}%
17235 \ifhv@fbox
17236 \fbbox{\raisebox{-\height}{\usebox{\hvCaptionBox}}}%
17237 \else
17238 \raisebox{-\height}{\usebox{\hvCaptionBox}}%
17239 \fi
17240 \else
17241 \ifhv@fbox
17242 \fbbox{\usebox{\hvObjectBox}}%
17243 \else
17244 \usebox{\hvObjectBox}%
17245 \fi
17246 \hspace{\hvSet@floatCapSep pt}%
17247 \ifhv@fbox
17248 \fbbox{\usebox{\hvCaptionBox}}%
17249 \else

```



```

17250         \usebox{\hvCaptionBox}%
17251         \fi%
17252         \fi%
17253     \fi
17254 \fi% end of RTL
17255     \fi
17256     \fi
17257     \fi
17258 }% End savebox Object and caption
17259 %
17260 % now we rotate the object and caption, if needed
17261 %
17262 \ifx\hvSet@rotAngle\hv@Zero
17263     \usebox{\@tempboxa}
17264 \else
17265     \rotatebox{\hvSet@rotAngle}{\usebox{\@tempboxa}}
17266 \fi
17267 \ifhv@nonFloat
17268     \ifx\hvSet@objectPos\hv@Center
17269         \ifhv@nonFloat
17270             \hspace{\fill}
17271         \fi
17272     \fi
17273 \endgroup% End the nonfloat part
17274 \else
17275     \end{\hv@floatType}% End the floating environment
17276 \fi
17277 }

```

## 102 File hyperref-xetex-bidi.def

```

17278 \ProvidesFile{hyperref-xetex-bidi.def}[2025/01/05 v1.4 bidi adaptations for hyperref package]
17279 \AtBeginDocument{%
17280 \def\contentsline#1#2#3#4{%
17281     \ifx\#4\%
17282         \csname l@#1\endcsname{#2}{#3}%
17283     \else
17284         \ifcase\Hy@linktoc % none
17285             \csname l@#1\endcsname{#2}{#3}%
17286         \or % section
17287             \csname l@#1\endcsname{%
17288                 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
17289             }{#3}%
17290         \or % page
17291             \csname l@#1\endcsname{#2}{#3}{%
17292                 \hyper@linkstart{link}{#4}{#3}\hyper@linkend
17293             }%
17294         \else % all
17295             \csname l@#1\endcsname{%
17296                 \hyper@linkstart{link}{#4}{\if@RTL\beginR\fi#2\if@RTL\endR\fi}\hyper@linkend
17297             }{#3}%
17298             \hyper@linkstart{link}{#4}{#3}\hyper@linkend
17299         }%
17300     \fi

```



```

17301 \fi
17302 }
17303 \ifHy@hyperfootnotes
17304 \let\H@@footnotetext\@footnotetext
17305 \let\HRTL@RTLfootnotetext\RTLfootnotetext
17306 \let\HLTR@LTRfootnotetext\LTRfootnotetext
17307 \def\xfootnotenext[#1]{%
17308 \begingroup
17309 \csname c@\@mpfn\endcsname #1\relax
17310 \unrestored@protected@xdef\@thefnmark{\thempfn}%
17311 \endgroup
17312 \ifx\@footnotetext\@mpfootnotetext
17313 \expandafter\H@@mpfootnotetext
17314 \else
17315 \expandafter\H@@footnotetext
17316 \fi
17317 }%
17318 \def\@xRTLfootnotenext[#1]{%
17319 \begingroup
17320 \csname c@\@mpfn\endcsname #1\relax
17321 \unrestored@protected@xdef\@thefnmark{\thempfn}%
17322 \endgroup
17323 \ifx\RTLfootnotetext\@mpRTLfootnotetext
17324 \expandafter\HRTL@mpRTLfootnotetext
17325 \else
17326 \expandafter\HRTL@RTLfootnotetext
17327 \fi
17328 }%
17329 \def\@xLTRfootnotenext[#1]{%
17330 \begingroup
17331 \csname c@\@mpfn\endcsname #1\relax
17332 \unrestored@protected@xdef\@thefnmark{\thempfn}%
17333 \endgroup
17334 \ifx\LTRfootnotetext\@mpLTRfootnotetext
17335 \expandafter\HLTR@mpLTRfootnotetext
17336 \else
17337 \expandafter\HLTR@LTRfootnotetext
17338 \fi
17339 }%
17340 \def\@xfootnotemark[#1]{%
17341 \begingroup
17342 \c@footnote #1\relax
17343 \unrestored@protected@xdef\@thefnmark{\thefootnote}%
17344 \endgroup
17345 \H@@footnotemark
17346 }%
17347 \let\H@@mpfootnotetext\@mpfootnotetext
17348 \let\HRTL@mpRTLfootnotetext\@mpRTLfootnotetext
17349 \let\HLTR@mpLTRfootnotetext\@mpLTRfootnotetext
17350 \long\def\@mpfootnotetext#1{%
17351 \H@@mpfootnotetext{%
17352 \ifHy@nesting
17353 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17354 \else

```



```

17355         \Hy@raisedlink{%
17356             \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17357             }#1%
17358     \fi
17359 }%
17360 }%
17361 \long\def\@mpRTLfootnotetext#1{%
17362     \HRTL@mpRTLfootnotetext{%
17363         \ifHy@nesting
17364             \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17365         \else
17366             \Hy@raisedlink{%
17367                 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17368                 }#1%
17369             \fi
17370         }%
17371     }%
17372 \long\def\@mplTRfootnotetext#1{%
17373     \HLTR@mplTRfootnotetext{%
17374         \ifHy@nesting
17375             \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17376         \else
17377             \Hy@raisedlink{%
17378                 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17379                 }#1%
17380             \fi
17381         }%
17382     }%
17383 \long\def\@footnotetext#1{%
17384     \H@@footnotetext{%
17385         \ifHy@nesting
17386             \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17387         \else
17388             \Hy@raisedlink{%
17389                 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17390                 }%
17391             \let\@currentHlabel\Hy@footnote@currentHlabel
17392             \let\@currentHref\Hy@footnote@currentHref
17393             \let\@currentlabelname\@empty
17394             #1%
17395             \fi
17396         }%
17397     }%
17398 \long\def\@RTLfootnotetext#1{%
17399     \HRTL@RTLfootnotetext{%
17400         \ifHy@nesting
17401             \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17402         \else
17403             \Hy@raisedlink{%
17404                 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17405                 }%
17406             \let\@currentHlabel\Hy@footnote@currentHlabel
17407             \let\@currentHref\Hy@footnote@currentHref
17408             \let\@currentlabelname\@empty

```



```

17409         #1%
17410     \fi
17411 }%
17412 }%
17413 \long\def\@LTRfootnotetext#1{%
17414 \HLTR@@LTRfootnotetext{%
17415 \ifHy@nesting
17416 \hyper@@anchor{\Hy@footnote@currentHref}{#1}%
17417 \else
17418 \Hy@raisedlink{%
17419 \hyper@@anchor{\Hy@footnote@currentHref}{\relax}%
17420 }%
17421 \let\@currentHlabel\Hy@footnote@currentHlabel
17422 \let\@currentHref\Hy@footnote@currentHref
17423 \let\@currentlabelname\@empty
17424 #1%
17425 \fi
17426 }%
17427 }%
17428 \ApplyPatchCodeToPackage{tabularx}{%
17429 \let\HyOrg@TX@endtabularx\TX@endtabularx
17430 \def\Hy@tabularx@hook{%
17431 \let\@footnotetext\H@@footnotetext
17432 \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
17433 \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
17434 \let\@footnotemark\H@@footnotemark
17435 \let\@mpfootnotetext\H@@mpfootnotetext
17436 \let\@mpLTRfootnotetext\HLTR@@mpLTRfootnotetext
17437 \let\@mpRTLfootnotetext\HRTL@@mpRTLfootnotetext
17438 }%
17439 \begingroup
17440 \toks@\expandafter{\TX@endtabularx}%
17441 \xdef\Hy@gtemp{%
17442 \noexpand\Hy@tabularx@hook
17443 \the\toks@
17444 }%
17445 \endgroup
17446 \let\TX@endtabularx\Hy@gtemp
17447 }%
17448 \ApplyPatchCodeToPackage{longtable}{%
17449 \CheckCommand{\LT@p@LTRfnttext}[1]{%
17450 \edef\@tempa{%
17451 \the\LT@p@ftn
17452 \noexpand\LTRfootnotetext[\the\c@footnote]%
17453 }%
17454 \global\LT@p@ftn\expandafter{\@tempa{#1}}%
17455 }%
17456 \long\def\LT@p@LTRfnttext#1{%
17457 \edef\@tempa{%
17458 \the\LT@p@ftn
17459 \begingroup
17460 \noexpand\c@footnote=\the\c@footnote\relax
17461 \noexpand\protected@xdef\noexpand\@thefnmark{%
17462 \noexpand\thempfn

```



```

17463         }%
17464         \noexpand\Hy@LT@LTRfootnotetext{%
17465             \Hy@footnote@currentHref
17466         }%
17467     }%
17468     \global\LT@p@ftn\expandafter{%
17469         \@tempa{#1}%
17470     \endgroup
17471 }%
17472 }%
17473 \long\def\Hy@LT@LTRfootnotetext#1#2{%
17474     \HLTR@@@LTRfootnotetext{%
17475         \ifHy@nesting
17476             \hyper@@anchor{#1}{#2}%
17477         \else
17478             \Hy@raisedlink{%
17479                 \hyper@@anchor{#1}{\relax}%
17480             }%
17481             \def\@currentHref{#1}%
17482             \let\@currentlabelname\@empty
17483             #2%
17484         \fi
17485     }%
17486 }%
17487 \CheckCommand{\LT@p@RTLftntext}[1]{%
17488     \edef\@tempa{%
17489         \the\LT@p@ftn
17490         \noexpand\RTLfootnotetext[\the\c@footnote]%
17491     }%
17492     \global\LT@p@ftn\expandafter{\@tempa{#1}}%
17493 }%
17494 \long\def\LT@p@RTLftntext#1{%
17495     \edef\@tempa{%
17496         \the\LT@p@ftn
17497     \begingroup
17498         \noexpand\c@footnote=\the\c@footnote\relax
17499         \noexpand\protected@xdef\noexpand\@thefnmark{%
17500             \noexpand\thempfn
17501         }%
17502         \noexpand\Hy@LT@RTLfootnotetext{%
17503             \Hy@footnote@currentHref
17504         }%
17505     }%
17506     \global\LT@p@ftn\expandafter{%
17507         \@tempa{#1}%
17508     \endgroup
17509 }%
17510 }%
17511 \long\def\Hy@LT@RTLfootnotetext#1#2{%
17512     \HRTL@@@RTLfootnotetext{%
17513         \ifHy@nesting
17514             \hyper@@anchor{#1}{#2}%
17515         \else
17516             \Hy@raisedlink{%

```



```

17517         \hyper@@anchor{#1}{\relax}%
17518     }%
17519     \def\@currentHref{#1}%
17520     \let\@currentlabelname\@empty
17521     #2%
17522 \fi
17523 }%
17524 }%
17525 }%
17526 \ApplyPatchCodeToPackage{bidipoem}{%
17527 \long\def\bidipoem@p@ftntext#1{%
17528     \edef\@tempxi{%
17529         \the\bidipoem@p@ftn
17530         \beginingroup
17531             \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17532             \noexpand\protected@xdef\noexpand\@thefnmark{%
17533                 \noexpand\thempfn
17534             }%
17535             \noexpand\Hy@bidipoem@footnotetext{%
17536                 \Hy@footnote@currentHref
17537             }%
17538         }%
17539         \global\bidipoem@p@ftn\expandafter{%
17540             \@tempxi{#1}%
17541         \endgroup
17542     }%
17543 }%
17544 \long\def\Hy@bidipoem@footnotetext#1#2{%
17545     \H@@footnotetext{%
17546         \ifHy@nesting
17547             \hyper@@anchor{#1}{#2}%
17548         \else
17549             \Hy@raisedlink{%
17550                 \hyper@@anchor{#1}{\relax}%
17551             }%
17552             \def\@currentHref{#1}%
17553             \let\@currentlabelname\@empty
17554             #2%
17555         \fi
17556     }%
17557 }%
17558     \long\def\bidipoem@p@LTRftntext#1{%
17559     \edef\@tempxi{%
17560         \the\bidipoem@p@ftn
17561         \beginingroup
17562             \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17563             \noexpand\protected@xdef\noexpand\@thefnmark{%
17564                 \noexpand\thempfn
17565             }%
17566             \noexpand\Hy@bidipoem@LTRfootnotetext{%
17567                 \Hy@footnote@currentHref
17568             }%
17569         }%
17570     \global\bidipoem@p@ftn\expandafter{%

```





```

17571         \@tempxi{#1}%
17572     \endgroup
17573 }%
17574 }%
17575 \long\def\Hy@bidipoem@LTRfootnotetext#1#2{%
17576     \HLTR@@LTRfootnotetext{%
17577         \ifHy@nesting
17578             \hyper@@anchor{#1}{#2}%
17579         \else
17580             \Hy@raisedlink{%
17581                 \hyper@@anchor{#1}{\relax}%
17582             }%
17583             \def\@currentHref{#1}%
17584             \let\@currentlabelname\@empty
17585             #2%
17586         \fi
17587     }%
17588 }%
17589     \long\def\bidipoem@p@RTLftntext#1{%
17590     \edef\@tempxii{%
17591         \the\bidipoem@p@ftn
17592     \beginingroup
17593         \noexpand\csname c@\@mpfn\endcsname=\the\csname c@\@mpfn\endcsname\relax
17594         \noexpand\protected@xdef\noexpand\@thefnmark{%
17595             \noexpand\thempfn
17596         }%
17597         \noexpand\Hy@bidipoem@RTLfootnotetext{%
17598             \Hy@footnote@currentHref
17599         }%
17600     }%
17601     \global\bidipoem@p@ftn\expandafter{%
17602         \@tempxii{#1}%
17603     \endgroup
17604     }%
17605 }%
17606 \long\def\Hy@bidipoem@RTLfootnotetext#1#2{%
17607     \HRTL@@RTLfootnotetext{%
17608         \ifHy@nesting
17609             \hyper@@anchor{#1}{#2}%
17610         \else
17611             \Hy@raisedlink{%
17612                 \hyper@@anchor{#1}{\relax}%
17613             }%
17614             \def\@currentHref{#1}%
17615             \let\@currentlabelname\@empty
17616             #2%
17617         \fi
17618     }%
17619 }%
17620 }%
17621 \let\HyOrg@maketitle\maketitle
17622 \def\maketitle{%
17623     \let\Hy@saved@footnotemark\@footnotemark
17624     \let\Hy@saved@footnotetext\@footnotetext

```



```

17625 \let\HyRTL@saved@RTLfootnotetext\@RTLfootnotetext
17626 \let\HyLTR@saved@LTRfootnotetext\@LTRfootnotetext
17627 \let\@footnotemark\H@@footnotemark
17628 \let\@footnotetext\H@@footnotetext
17629 \let\@RTLfootnotetext\HRTL@@RTLfootnotetext
17630 \let\@LTRfootnotetext\HLTR@@LTRfootnotetext
17631 \@ifnextchar[\Hy@maketitle@optarg{% ]
17632 \HyOrg@maketitle
17633 \Hy@maketitle@end
17634 }%
17635 }%
17636 \def\Hy@maketitle@optarg[#1]{%
17637 \HyOrg@maketitle[{#1}]%
17638 \Hy@maketitle@end
17639 }%
17640 \def\Hy@maketitle@end{%
17641 \ifx\@footnotemark\H@@footnotemark
17642 \let\@footnotemark\Hy@saved@footnotemark
17643 \fi
17644 \ifx\@footnotetext\H@@footnotetext
17645 \let\@footnotetext\Hy@saved@footnotetext
17646 \fi
17647 \ifx\@RTLfootnotetext\HRTL@@RTLfootnotetext
17648 \let\@RTLfootnotetext\HyRTL@saved@RTLfootnotetext
17649 \fi
17650 \ifx\@LTRfootnotetext\HLTR@@LTRfootnotetext
17651 \let\@LTRfootnotetext\HyLTR@saved@LTRfootnotetext
17652 \fi
17653 }%
17654 \def\realfootnote{%
17655 \@ifnextchar[\@xfootnote{%
17656 \stepcounter{\@mpfn}%
17657 \protected@xdef\@thefnmark{\thempfn}%
17658 \H@@footnotemark\H@@footnotetext
17659 }%
17660 }%
17661 \fi
17662 \def\Hy@BeginAnnot#1{%
17663 \ifmmode\else\beginL\fi%
17664 \global\advance\c@Hy@AnnotLevel\@ne
17665 \ifnum\c@Hy@AnnotLevel=\@ne
17666 #1%
17667 \fi
17668 }
17669 \def\Hy@endAnnot{%
17670 \ifnum\c@Hy@AnnotLevel=\@ne
17671 \Hy@endcolorlink
17672 \@pdfmark{eann}%
17673 \fi
17674 \global\advance\c@Hy@AnnotLevel\m@ne
17675 \ifmmode\else\endL\fi%
17676 }
17677 \def\hyper@link#1#2#3{%
17678 \hyper@linkstart{#1}{#2}\ifmmode\else\if@RTL\beginR\fi\fi#3\ifmmode\else\if@RTL\endR\fi\fi

```



```

17679 }
17680 \def\hyper@linkfile#1#2#3{%
17681   \leavevmode
17682   \Hy@BeginAnnot{%
17683     \def\Hy@pstringF{#2}%
17684     \Hy@CleanupFile\Hy@pstringF
17685     \Hy@pstringdef\Hy@pstringF\Hy@pstringF
17686     \Hy@pstringdef\Hy@pstringD{#3}%
17687     \Hy@MakeRemoteAction
17688     \@pdfm@mark{%
17689       bann<<%
17690       /Type/Annot%
17691       /Subtype/Link%
17692       \ifHy@pdfa /F 4\fi
17693       \Hy@setpdfborder
17694       \ifx\@filebordercolor\relax
17695       \else
17696         /C[\@filebordercolor]%
17697       \fi
17698       /A<<%
17699       /S/GoToR%
17700       /F(\Hy@pstringF)%
17701       /D%
17702       \ifx\#3\%
17703         [\Hy@href@page\@pdfremotestartview]%
17704       \else
17705         (\Hy@pstringD)%
17706       \fi
17707       \Hy@SetNewWindow
17708       \Hy@href@nextactionraw
17709       >>%
17710     >>%
17711   }%
17712   \Hy@colorlink\@filecolor
17713 }%
17714 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17715 \Hy@endAnnot
17716 }
17717 \def\@hyper@launch run:#1\#2#3{% filename, anchor text linkname
17718   \leavevmode
17719   \Hy@BeginAnnot{%
17720     \Hy@pstringdef\Hy@pstringF{#1}%
17721     \Hy@pstringdef\Hy@pstringP{#3}%
17722     \@pdfm@mark{%
17723       bann<<%
17724       /Type/Annot%
17725       /Subtype/Link%
17726       \ifHy@pdfa /F 4\fi
17727       \Hy@setpdfborder
17728       \ifx\@runbordercolor\relax
17729       \else
17730         /C[\@runbordercolor]%
17731       \fi
17732       /A<<%

```



```

17733         /F(\Hy@pstringF)%
17734         /S/Launch%
17735         \Hy@SetNewWindow
17736         \ifx\#3\%
17737         \else
17738             /Win<</P(\Hy@pstringP)/F(\Hy@pstringF)>>%
17739         \fi
17740         \Hy@href@nextactionraw
17741     >>%
17742 >>%
17743 }%
17744 \Hy@colorlink\@runcolor
17745 }%
17746 \ifmmode\else\if@RTL\beginR\fi\fi#2\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17747 \Hy@endAnnot
17748 }
17749 \def\hyper@linkurl#1#2{%
17750 \leavevmode
17751 \Hy@BeginAnnot{%
17752 \Hy@pstringdef\Hy@pstringURI{#2}%
17753 \@pdfm@mark{%
17754 bann<<%
17755 /Type/Annot%
17756 /Subtype/Link%
17757 \ifHy@pdfa /F 4\fi
17758 \Hy@setpdfborder
17759 \ifx\@urlbordercolor\relax
17760 \else
17761 /C[\@urlbordercolor]%
17762 \fi
17763 /A<<%
17764 /S/URI%
17765 /URI(\Hy@pstringURI)%
17766 \ifHy@href@ismap
17767 /IsMap true%
17768 \fi
17769 \Hy@href@nextactionraw
17770 >>%
17771 >>%
17772 }%
17773 \Hy@colorlink\@urlcolor
17774 }%
17775 \ifmmode\else\if@RTL\beginR\fi\fi#1\ifmmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17776 \Hy@endAnnot
17777 }
17778 \def\Acrobatmenu#1#2{%
17779 \Hy@Acrobatmenu{#1}{#2}{%
17780 \Hy@BeginAnnot{%
17781 \EdefEscapeName\Hy@temp@menu{#1}%
17782 \@pdfm@mark{%
17783 bann<<%
17784 /Type/Annot%
17785 /Subtype/Link%
17786 \ifHy@pdfa /F 4\fi

```



```

17787      \Hy@setpdfborder
17788      \ifx\@menubordercolor\relax
17789      \else
17790      /C[\@menubordercolor]%
17791      \fi
17792      /A<<%
17793      /S/Named%
17794      /N/\Hy@temp@menu
17795      \Hy@href@nextactionraw
17796      >>%
17797      >>%
17798      }%
17799      \Hy@colorlink\@menucolor
17800      }%
17801      \ifmode\else\if@RTL\beginR\fi\fi#2\ifmode\else\if@RTL\endR\fi\fi\Hy@xspace@end
17802      \Hy@endAnnot
17803      }%
17804  }
17805  \def\hyper@natlinkstart#1{%
17806    \Hy@backout{#1}%
17807    \hyper@linkstart{cite}{cite.#1}\if@RTL\beginR\fi%
17808    \def\hyper@nat@current{#1}%
17809  }
17810  \def\hyper@natlinkend{%
17811    \if@RTL\endR\fi\hyper@linkend
17812  }
17813  \def\hyper@natlinkbreak#1#2{%
17814    \if@RTL\endR\fi\hyper@linkend#1\hyper@linkstart{cite}{cite.#2}\if@RTL\beginR\fi%
17815  }%
17816  }
17817  \pdfstringdefDisableCommands{%
17818    \let\LRE\@firstofone
17819    \let\LR\@firstofone
17820    \let\RL\@firstofone
17821    \let\RL\@firstofone
17822    \def\XeTeX{Xe\TeX}%
17823    \def\XeLaTeX{Xe\LaTeX}%
17824  }
17825  \bidi@patchcmd\@TextField{%
17826    \@pdfm@mark
17827  }{%
17828    \if@RTL
17829      \hskip\Fld@width
17830    \fi
17831    \@pdfm@mark
17832  }{}{}
17833  \bidi@patchcmd\@TextField{%
17834    \unhbox
17835  }{%
17836    \if@RTL
17837      \hskip-\Fld@width
17838    \fi
17839    \unhbox
17840  }{}{}

```



```

17841 \bidi@patchcmd\@@Radio{%
17842   \@pdfm@mark
17843 }{%
17844   \if@RTL
17845     \hskip\Fld@width
17846   \fi
17847   \@pdfm@mark
17848 }{}{}
17849 \bidi@patchcmd\@@Radio{%
17850   \unhcopy
17851 }{%
17852   \if@RTL
17853     \hskip-\Fld@width
17854   \fi
17855   \unhcopy
17856 }{}{}
17857 \bidi@patchcmd\@Submit{%
17858   \@pdfm@mark
17859 }{%
17860   \if@RTL
17861     \null
17862     \hskip\wd\pdfm@box
17863   \fi
17864   \@pdfm@mark
17865 }{}{}
17866 \bidi@patchcmd\@Submit{%
17867   \unhbox
17868 }{%
17869   \if@RTL
17870     \hskip-\wd\pdfm@box
17871   \fi
17872   \unhbox
17873 }{}{}
17874 \bidi@patchcmd\@Reset{%
17875   \@pdfm@mark
17876 }{%
17877   \if@RTL
17878     \null
17879     \hskip\wd\pdfm@box
17880   \fi
17881   \@pdfm@mark
17882 }{}{}
17883 \bidi@patchcmd\@Reset{%
17884   \unhbox
17885 }{%
17886   \if@RTL
17887     \hskip-\wd\pdfm@box
17888   \fi
17889   \unhbox
17890 }{}{}

```

## 103 File `imsproc-xetex-bidi.def`

```

17891 \ProvidesFile{imsproc-xetex-bidi.def}[2017/06/09 v0.1 bidi adaptations for imsproc class for

```



```

17892 \newenvironment{thebibliography}[1]{%
17893   \@bibtitlestyle
17894   \normalfont\bibliofont\labelsep .5em\relax
17895   \renewcommand\theenumiv{\arabic{enumiv}}\let\p@enumiv\@empty
17896   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
17897   \bidi@thebibliography@font@hook
17898   \list{\@biblabel{\theenumiv}}{\settowidth\labelwidth{\@biblabel{#1}}%
17899     \leftmargin\labelwidth \advance\leftmargin\labelsep
17900     \usecounter{enumiv}}%
17901   \sloppy \clubpenalty\@M \widowpenalty\clubpenalty
17902   \sfcode`\.=\@m
17903 }{%
17904   \def\@noitemerr{\@latex@warning{Empty `thebibliography' environment}}%
17905   \endlist
17906 }
17907
17908 \def\theindex{\@restonecoltrue\if@twocolumn\@restonecolfalse\fi
17909   \columnseprule\z@ \columnsep 35\p@
17910   \@indextitlestyle
17911   \thispagestyle{plain}%
17912   \let\item\@idxitem
17913   \parindent\z@ \parskip\z@\@plus.3\p@\relax
17914   \if@RTL\raggedleft\else\raggedright\fi
17915   \hyphenpenalty\@M
17916   \footnotesize}
17917 \def\@idxitem{\par\hangindent \if@RTL-\fi2em}
17918 \def\@subitem{\par\hangindent \if@RTL-\fi2em\hspace*{1em}}
17919 \def\@subsubitem{\par\hangindent \if@RTL-\fi3em\hspace*{2em}}
17920
17921 \def\right@footnoterule{%
17922   \kern-.4\p@
17923   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-5pc\relax \hrulefill }
17924   \kern11\p@\kern-\footnotesep}
17925 \def\left@footnoterule{\kern-.4\p@
17926   \hrule\@width 5pc\kern11\p@\kern-\footnotesep}
17927 \def\@makefnmark{%
17928   \leavevmode
17929   \raise.9ex\hbox{\fontsize\sf@size\z@\normalfont\@thefnmark}}%
17930 }
17931
17932 \def\part{\@startsection{part}{0}%
17933   \z@\{ \linespacing\@plus\linespacing\}{.5\linespacing}%
17934   {\normalfont\bfseries\if@RTL\raggedleft\else\raggedright\fi}}
17935 \def\@tocline#1#2#3#4#5#6#7{\relax
17936   \ifnum #1>\c@tocdepth % then omit
17937   \else
17938     \par \addpenalty\@secpenalty\addvspace{#2}%
17939     \begingroup \hyphenpenalty\@M
17940     \@ifempty{#4}{%
17941       \@tempdima\c@tocdepth\@tocindent\@number#1\endcsname\relax
17942     }{%
17943       \@tempdima#4\relax
17944     }%
17945     \parindent\z@ \if@RTL\righskip\else\leftskip\fi#3\relax \advance\if@RTL\righskip\else\leftskip\fi#4\relax

```



```

17946 \if@RTL\leftskip\else\rightskip\fi\@pnumwidth plus4em \parfillskip-\@pnumwidth
17947 #5\leavevmode\hskip-\@tempdima #6\nobreak\relax
17948 \hfil\hbox to\@pnumwidth{\@tocpagenum{#7}}\par
17949 \nobreak
17950 \endgroup
17951 \fi}
17952 \renewcommand\thesubsection {\thesection\@SepMark\arabic{subsection}}
17953 \renewcommand\thesubsubsection {\thesubsection \@SepMark\arabic{subsubsection}}
17954 \renewcommand\theparagraph {\thesubsubsection\@SepMark\arabic{paragraph}}
17955 \renewcommand\thesubparagraph {\theparagraph\@SepMark\arabic{subparagraph}}
17956 \def\maketitle{\par
17957 \topnum\z@ % this prevents figures from falling at the top of page 1
17958 \setcopyright
17959 \thispagestyle{firstpage}% this sets first page specifications
17960 \uppercase\nonmath\shorttitle
17961 \ifx\@empty\shortauthors \let\shortauthors\shorttitle
17962 \else \andify\shortauthors
17963 \fi
17964 \@maketitle@hook
17965 \begingroup
17966 \@maketitle
17967 \toks@{\exp{\shortauthors}\@temptokena\exp{\shorttitle}}%
17968 \toks4{\def\{\ \ignorespaces}}% defend against questionable usage
17969 \edef\@tempa{%
17970 \@nx\markboth{\the\toks4
17971 \@nx\MakeUppercase{\the\toks@}}{\the\@temptokena}}%
17972 \@tempa
17973 \endgroup
17974 \c@footnote\z@
17975 \cleartopmattertags
17976 }

```

## 104 File leqno-xetex-bidi.def

```

17977 \ProvidesFile{leqno-xetex-bidi.def}[2018/01/07 v0.2 bidi adaptations for leqno tag for XeTeX]
17978 \renewcommand\@eqnnum{\hb@xt@.01\p@{}}%
17979 \rlap{\hskip -\displaywidth
17980 {\normalfont\normalcolor\if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}

```

## 105 File letter-xetex-bidi.def

```

17981 \ProvidesFile{letter-xetex-bidi.def}[2015/11/14 v0.3 bidi adaptations for standard letter class]
17982 \renewcommand*\opening[1]{\ifx\@empty\fromaddress
17983 \thispagestyle{firstpage}%
17984 {\if@RTL\raggedright\else\raggedleft\fi\@date\par}%
17985 \else % home address
17986 \thispagestyle{empty}%
17987 {\if@RTL\raggedright\else\raggedleft\fi\if@RTL\begin{tabular}{r@{}}\else\begin{tabular}{l@{}}
17988 \fromaddress \\\*[2\parskip]%
17989 \@date \end{tabular}\par}%
17990 \fi
17991 \vspace{2\parskip}%
17992 {\if@RTL\raggedleft\else\raggedright\fi \toname \\\ toaddress \par}%
17993 \vspace{2\parskip}%

```





```

17994 #1\par\nobreak}
17995 \renewcommand\left@footnoterule{%
17996   \kern-\p@
17997   \hrule \@width .4\columnwidth
17998   \kern .6\p@}
17999 \renewcommand\right@footnoterule{%
18000   \kern-\p@
18001   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
18002   \kern .6\p@}

```

## 106 File lettrine-xetex-bidi.def

```

18003 \ProvidesFile{lettrine-xetex-bidi.def}[2024/12/08 v0.9 bidi adaptations for lettrine package]
18004 \RemoveFromHook{begindocument}[lettrine]
18005 \AtBeginDocument[lettrine]{%
18006   \if\DefaultOptionsFile\relax
18007   \else
18008     \InputIfFileExists{\DefaultOptionsFile}%
18009     {}%
18010     {\PackageWarning{lettrine.sty}%
18011      {File \DefaultOptionsFile\space not found}%
18012      }%
18013   \fi
18014   \let\ifL@RTL\if@RTL
18015 }

```

## 107 File lineno-xetex-bidi.def

```

18016 \ProvidesFile{lineno-xetex-bidi.def}[2024/12/07 v0.3 bidi adaptations for lineno package for]
18017 \bidi@patchcmd{\MakeLineNo}{%
18018   \hb@xt@\z@{\makeLineNumber}%
18019 }{%
18020   \hboxL to \z@{\makeLineNumber}%
18021 }{}{}
18022
18023 \bidi@patchcmd{\makeLineNumberLeft}{\LineNumber}{%
18024   \if@RTL
18025     \hb@xt@\linenumberwidth{\LineNumber\hss}%
18026   \else
18027     \LineNumber
18028   \fi
18029 }{}{}
18030
18031 \bidi@patchcmd{\makeLineNumberRight}{%
18032   \hb@xt@\linenumberwidth{\hss\LineNumber}%
18033 }{%
18034   \if@RTL
18035     \LineNumber
18036   \else
18037     \hb@xt@\linenumberwidth{\hss\LineNumber}%
18038   \fi
18039 }{}{}
18040
18041 \bidi@AfterPreamble{%

```



```

18042 \if@RTLmain
18043   \rightlinenumbers*
18044 \else
18045   \leftlinenumbers*
18046 \fi
18047 \@ifpackagewith{lineno}{left}{%
18048   \leftlinenumbers*
18049 }{}
18050 \@ifpackagewith{lineno}{right}{%
18051   \rightlinenumbers*
18052 }{}
18053 \@ifpackagewith{lineno}{switch}{%
18054   \if@RTLmain
18055     \switchlinenumbers*
18056   \else
18057     \switchlinenumbers
18058   \fi
18059 }{}
18060 \@ifpackagewith{lineno}{switch*}{%
18061   \if@RTLmain
18062     \switchlinenumbers
18063   \else
18064     \switchlinenumbers*
18065   \fi
18066 }{}
18067 }
18068

```

## 108 File listings-xetex-bidi.def

```

18069 \ProvidesFile{listings-xetex-bidi.def}[2025/01/03 v1.6 bidi adaptations for listings package]
18070 \lst@Key{captiondirection}{textdirection}{%
18071   \lstKV@SwitchCases{#1}%
18072   {textdirection:\\%
18073     RTL:\chardef\bidi@lst@caption@direction\@ne\\%
18074     LTR:\chardef\bidi@lst@caption@direction\z@%
18075   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
18076
18077 \lst@Key{captionscript}{textscript}{%
18078   \lstKV@SwitchCases{#1}%
18079   {textscript:\\%
18080     latin:\chardef\bidi@lst@caption@script\@ne\\%
18081     nonlatin:\chardef\bidi@lst@caption@script\z@%
18082   }{\PackageError{Listings}{direction #1 unknown}\@ehc}}
18083
18084 \newcommand*{\bidi@lst@ensure@caption@direction}[2]{%
18085   \@ifundefined{bidi@lst@caption@direction}{}{%
18086     \ifnum\bidi@lst@caption@direction=\z@%
18087       #1%
18088     \else%
18089       \ifnum\bidi@lst@caption@direction=\@ne%
18090         #2%
18091       \fi%
18092     \fi%

```



```

18093 }}
18094
18095 \newcommand*{\bidi@lst@ensure@caption@script}[2]{%
18096   \ifundefined{bidi@lst@caption@script}{\{%
18097     \ifnum\bidi@lst@caption@script=\z@%
18098       #1%
18099     \else%
18100       \ifnum\bidi@lst@caption@script=\@ne%
18101         #2%
18102       \fi%
18103     \fi%
18104 }}
18105
18106 \long\def\@bidi@lst@makecaption#1#2{%
18107   \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
18108   \vskip\abovcaptionskip
18109   \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18110   \sbox\@tempboxa{%
18111     \bidi@lst@ensure@caption@direction{\beginL}{\beginR}%
18112     #1: #2%
18113     \bidi@lst@ensure@caption@direction{\endL}{\endR}%
18114   }%
18115   \ifdim \wd\@tempboxa >\hsize
18116     #1: #2\par
18117   \else
18118     \global \@minipagefalse
18119     \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
18120   \fi
18121   \vskip\belowcaptionskip}%
18122 \def\lst@makecaption{\@bidi@lst@makecaption}
18123 \def\lst@maketitle{\@bidi@lst@makecaption\lst@title@dropdelim}
18124 \bidi@AtEndPreamble{%
18125 \bidi@patchcmd{\lst@MakeCaption}{%
18126   \ifx #1t%
18127     \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
18128       \expandafter\refstepcounter
18129     \fi {lstlisting}%
18130 }{%
18131   \ifx #1t%
18132     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18133     \ifx\lst@@caption\@empty\expandafter\lst@HRefStepCounter \else
18134       \expandafter\refstepcounter
18135     \fi {lstlisting}%
18136     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLfalse}%
18137 }{}{}%
18138 \bidi@patchcmd{\lst@MakeCaption}{%
18139   \addcontentsline{lol}{lstlisting}%
18140   {\protect\numberline{\thelstlisting}\lst@@caption}%
18141 }{}%
18142 \begingroup%
18143   \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18144   \addcontentsline{lol}{lstlisting}%
18145   {\protect\numberline{\thelstlisting}\lst@@caption}%
18146 \endgroup%

```



```

18147 }{}{}%
18148 }
18149 \ApplyPatchIfPackageLoaded{caption}{%
18150   \AtBeginCaption{%
18151     \bidi@lst@ensure@caption@script{\@nonlatintrue}{\@nonlatinfalse}%
18152     \bidi@lst@ensure@caption@direction{\@RTLfalse}{\@RTLtrue}%
18153   }
18154   \let\@bidi@lst@makecaption\caption@makecaption%
18155   \def\lst@makecaption{\caption@starfalse\@bidi@lst@makecaption}%
18156   \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}%
18157 }{}%
18158 \AtBeginDocument{%
18159   \@ifundefined{captionlabelfalse}{}{}%
18160   \def\lst@maketitle{\captionlabelfalse\@bidi@lst@makecaption\@empty}%
18161   \@ifundefined{caption@startrue}{}{}%
18162   \def\lst@maketitle{\caption@startrue\@bidi@lst@makecaption\@empty}%
18163 }%
18164 }
18165 \AtBeginDocument{
18166   \@ifundefined{thechapter}{\let\lst@ifnumberbychapter\iffalse}{}
18167   \lst@ifnumberbychapter
18168     \gdef\thelstlisting%
18169       {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@lstlisting}
18170   \else
18171     \gdef\thelstlisting{\@arabic\c@lstlisting}
18172   \fi}

```

## 109 File longtable-xetex-bidi.def

```

18173 \ProvidesFile{longtable-xetex-bidi.def}[2025/01/05 v0.8 bidi adaptations for longtable packa
18174 \ExplSyntaxOn
18175 \def\LT@array[#1]#2{%
18176   \UseTaggingSocket{tbl/init}
18177   \tl_if_empty:eTF { \LTcctype }
18178   {
18179     \tl_gset:Ne \@currentHref {LT@tables.\theHLT@tables}
18180   }
18181   {
18182     \@kernel@refstepcounter{\LTcctype}\stepcounter{LT@tables}
18183     \tl_gset:Ne \@currentHref {LTcctype.\cs_if_exist_use:c {theH\LTcctype}}
18184   }
18185   \tbl_gzero_row_count:
18186   \UseTaggingSocket{tbl/longtable/init}
18187   \if l#1%
18188     \if@RTLtab\LTleft\fill \LTright\z@\else\LTleft\z@ \LTright\fill\fi
18189   \else\if r#1%
18190     \if@RTLtab\LTleft\z@ \LTright\fill\else\LTleft\fill \LTright\z@\fi
18191   \else\if c#1%
18192     \LTleft\fill \LTright\fill
18193   \fi\fi\fi
18194   \let\LT@mc@col\multicolumn
18195   \let\LT@@tabarray\@tabarray
18196   \let\LT@@hl\hline
18197   \def\@tabarray{%

```



```

18198 \let\hline\LT@@hl
18199 \LT@@tabarray}%
18200 \let\\LT@tabularcr
18201 \let\tabularnewline\\%
18202 \def\newpage{\noalign{\break}}%
18203 \def\pagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk-}4}%
18204 \def\nopagebreak{\noalign{\ifnum`}=0\fi\@testopt{\LT@no@pgbk4}}%
18205 \let\hline\LT@hline \let\kill\LT@kill\let\caption\LT@caption
18206 \@tempdima\ht\strutbox
18207 \let\@endpbox\LT@endpbox
18208 \ifx\extrarowheight\@undefined
18209 \let\@acol\@tabacol
18210 \let\@classz\@tabclassz \let\@classiv\@tabclassiv
18211 \def\@startpbox{\vtop\LT@startpbox}%
18212 \let\@startpbox\@startpbox
18213 \let\@endpbox\@endpbox
18214 \let\LT@LL@FM@cr\@tabularcr
18215 \else
18216 \advance\@tempdima\extrarowheight
18217 \col@sep\tabcolsep
18218 \let\@startpbox\LT@startpbox\let\LT@LL@FM@cr\@arraycr
18219 \fi
18220 \setbox\@arstrutbox\hbox{\vrule
18221 \@height \arraystretch \@tempdima
18222 \@depth \arraystretch \dp \strutbox
18223 \@width \z@}%
18224 \let\@sharp#\let\protect\relax
18225 \begingroup
18226 \@mkpream{#2}%
18227 \tbl_count_table_cols:
18228 \xdef\LT@bchunk{%
18229 \tbl_inbetween_rows:
18230 \global\advance\c@LT@chunks\@ne
18231 \global\LT@rows\z@\setbox\z@\vbox\bgroup
18232 \LT@setprevdepth
18233 \tabskip\LTleft \noexpand\halign to\hsize\bgroup
18234 \tabskip\z@ \@arstrut
18235 \UseTaggingSocket{tbl/row/begin}%
18236 \tbl_init_cell_data_for_row:
18237 \@preamble \tabskip\LTright \cr}%
18238 \endgroup
18239 \expandafter\LT@nofcols\LT@bchunk&\LT@nofcols
18240 \LT@make@row
18241 \m@th\let\par\@empty
18242 \everycr{%
18243 \noalign{%
18244 \tbl_trace:n {--longtable-->~chunk~row:~ \the\LT@rows \space
18245 row:~ \the\g__tbl_row_int \space
18246 column:~ \the\g__tbl_col_int
18247 }
18248 \tbl_if_row_was_started:T
18249 {
18250 \UseTaggingSocket{tbl/row/end}
18251 \tbl_inbetween_rows:

```



```

18252     }
18253     \int_compare:nNt \LT@rows < \LTchunksize
18254     { \tbl_gincr_row_count: } % next is row about to start
18255   }%
18256 }%
18257 \lineskip\z@\baselineskip\z@
18258 \LT@bchunk}
18259 \ExplSyntaxOff
18260 \def\LT@makecaption#1#2#3{%
18261   \LT@mc\LT@cols c{\hbox to\z@{\hss\parbox[t]{\LTcapwidth{%
18262     \reset@font
18263     \sbox\@tempboxa{\if@RTL\beginR\fi#1{#2: }#3\if@RTL\endR\fi}%
18264     \ifdim\wd\@tempboxa>\hsize
18265       #1{#2: }#3%
18266     \else
18267       \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
18268     \fi
18269     \endgraf\vskip\baselineskip}%
18270   \hss}}}
18271 \ApplyPatchCodeToPackage{caption}{%
18272   \renewcommand\LT@makecaption[3]{%
18273     \caption@LT@make{%
18274       \caption@LT@settype\LTcapttype
18275       \caption@LT@setup
18276       \caption@setautoposition{\ifcase\LT@rows t\else b\fi}%
18277       \caption@startrue#1\caption@starfalse
18278       \caption@prepare@stepcounter\LTcapttype
18279       \caption@begin\LTcapttype
18280       \caption@normalsize
18281       \vskip-\ht\strutbox
18282       \caption@ifdefined\FBifcapttop{%
18283         \let\caption@belowskip\@empty}{}%
18284       \caption@make@above
18285       \caption@@make{#2}{#3}\endgraf
18286       \caption@make@below
18287       \caption@end}}}%
18288 }
18289 \def\LT@startpbox#1{%
18290   \bgroup
18291   \color@begingroup
18292   \let\@footnotetext\LT@p@ftntext
18293   \let\@LTRfootnotetext\LT@p@LTRftntext
18294   \let\@RTLfootnotetext\LT@p@RTLftntext
18295   \setlength\hsize{#1}%
18296   \@arrayparboxrestore
18297   \everypar{%
18298     \vrule \@height \ht\@arstrutbox \@width \z@
18299     \everypar{}}}%
18300   }
18301 \long\def\LT@p@LTRftntext#1{%
18302   \edef\@tempa{\the\LT@p@ftn\noexpand\LTRfootnotetext[\the\c@footnote]}}%
18303   \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
18304 \long\def\LT@p@RTLftntext#1{%
18305   \edef\@tempa{\the\LT@p@ftn\noexpand\RTLfootnotetext[\the\c@footnote]}}%

```



```

18306 \global\LT@p@ftn\expandafter{\@tempa{#1}}}%
18307 \def\LT@output{%
18308   \ifnum\outputpenalty <-\@Mi
18309     \ifnum\outputpenalty > -\LT@end@pen
18310       \LT@err{floats and marginpars not allowed in a longtable}\@ehc
18311     \else
18312       \setbox\z@\vbox{\unvbox\@cclv}%
18313       \ifdim \ht\LT@lastfoot>\ht\LT@foot
18314         \dimen@\pagegoal
18315         \advance\dimen@-\ht\LT@foot
18316         \advance\dimen@-\ht\LT@lastfoot
18317         \ifdim\dimen@<\ht\z@
18318           \setbox\@cclv\vbox{\unvbox\z@\copy\LT@foot\vss}%
18319           \@makecol
18320           \@outputpage
18321           \global\size\@colroom
18322           \setbox\z@\vbox{\box\LT@head}%
18323         \fi
18324       \fi
18325       \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
18326       \unvbox\z@\box\ifvoid\LT@lastfoot\LT@foot\else\LT@lastfoot\fi
18327       \UseTaggingSocket{tbl/longtable/foot}
18328       \if@RTLtab\egroup\endR\egroup\fi
18329     \fi
18330   \else
18331     \setbox\@cclv\vbox{%
18332       \if@RTLtab\hbox\bgroup\beginR\vbox\bgroup\fi
18333       \unvbox\@cclv\copy\LT@foot\vss
18334       \if@RTLtab\egroup\endR\egroup\fi
18335     }%
18336     \UseTaggingSocket{tbl/longtable/foot}
18337     \@makecol
18338     \@outputpage
18339     \global\size\@colroom
18340     \copy\LT@head\nobreak
18341   \fi}

```

## 110 File `lscope-xetex-bidi.def`

```

18342 \ProvidesFile{lscope-xetex-bidi.def}[2025/01/03 v0.3 bidi adaptations for lscope package for
18343 \RequirePackage{graphicx}
18344 \bidi@patchcmd{\LS@rot}{\rotatebox{90}{\box\@outputbox}}{%
18345   \if@RTL
18346     \rotatebox[origin=br]{-90}{\box\@outputbox}%
18347   \else
18348     \rotatebox{90}{\box\@outputbox}%
18349   \fi
18350 }{}{}
18351
18352 \g@addto@macro{\landscape}{%
18353   \if@bidi@csdef{bidi@columnwidth}{%
18354     \bidi@columnwidth\columnwidth
18355   }{}%
18356   \let\bidi@left@footnoterule\left@footnoterule

```



```

18357 \let\bidiright@footnoterule\right@footnoterule
18358 \def\left@footnoterule{%
18359   \if@RTL
18360     \bidiright@footnoterule
18361   \else
18362     \bidi@left@footnoterule
18363   \fi
18364 }%
18365 \def\right@footnoterule{%
18366   \if@RTL
18367     \bidi@left@footnoterule
18368   \else
18369     \bidiright@footnoterule
18370   \fi
18371 }%
18372 }

```

## 111 File mathtools-xetex-bidi.def

```

18373 \ProvidesFile{mathtools-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for mathtools packa
18374 \RequirePackage{graphicx}
18375 \MHInternalSyntaxOn
18376 \def\MT_define_tagform:nwnn #1[#2]#3#4{
18377   \@namedef{MT_tagform_#1:n}##1
18378   {\maketag@@@{\if@nonlatin\beginR\fi#3\kern\z@ \ignorespaces#2{##1}\unskip\@italiccorr#4}
18379 }
18380 \renewtagform{default}{\{ }\}}
18381 \MHInternalSyntaxOff

```

## 112 File mdframed-xetex-bidi.def

```

18382 \ProvidesFile{mdframed-xetex-bidi.def}[2013/09/22 v0.4 bidi adaptations for mdframed package
18383 \newif\if@bidi@mdf@RTL
18384 \def\mdf@lrbbox#1{%
18385   \mdf@patchamsthm\patch amsthm
18386   \if@RTL\@bidi@mdf@RTLtrue\fi%
18387   \@RTLfalse%
18388   \setbox#1\vbox\bgroup%
18389   \color@begingroup%
18390   \if@bidi@mdf@RTL\@RTLtrue\fi%
18391   \mdf@horizontalmargin@equation%
18392   \columnwidth=\hsize%
18393   \textwidth=\hsize%
18394   \let\if@nobreak\iffalse%
18395   \let\if@noskipsec\iffalse%
18396   \let\par\@par%
18397   \let\-\@dischyph%
18398   \let'\@acci\let\` \@accii\let\=\@acciii%
18399   \parindent\z@ \parskip\z@skip%
18400   \linewidth\hsize%
18401   \@totalleftmargin\z@%
18402   \leftskip\z@skip \rightskip\z@skip \@rightskip\z@skip%
18403   \parfillskip\@flushglue \lineskip\normallineskip%
18404   \baselineskip\normalbaselineskip%

```





```

18405 %% \sloppy%
18406 \let\\\@normalcr%
18407 \mdf@par@local%New feature to restore parskip/parindent local in save box
18408 \ifbool{mdf@suppressfirstparskip}{\vspace*{-\parskip}}{}%
18409 \@afterindentfalse%
18410 %\@afterheading%
18411 }
18412 \renewrobustcmd\mdfframedtitleenv[1]{%
18413 \mdf@lrbox{\mdf@frametitlebox}%
18414 \mdf@frametitlealignment%
18415 \leavevmode{\color{\mdf@frametitlefontcolor}%
18416 \normalfont\mdf@frametitlefont{#1}
18417 \ifbool{mdf@ignorelastdescenders}%
18418 {%
18419 \par\strut\par
18420 \unskip\unskip\setbox0=\lastbox
18421 \vspace*{\dimexpr\ht\strutbox-\baselineskip\relax}%
18422 }{}}%
18423 \par\unskip\ifvmode\nointerlineskip\hrule \@height\z@ \@width\hsize\fi%
18424 \endmdf@lrbox\relax%
18425 \mdf@ignorevbadness%
18426 \setbox\mdf@frametitlebox=\vbox{\unvbox\mdf@frametitlebox}%
18427 \mdfframetitleboxwidth=\wd\mdf@frametitlebox\relax%
18428 \mdfframetitleboxheight=\ht\mdf@frametitlebox\relax%
18429 \mdfframetitleboxdepth=\dp\mdf@frametitlebox\relax%
18430 \mdfframetitleboxtotalheight=\dimexpr
18431 \ht\mdf@frametitlebox
18432 +\dp\mdf@frametitlebox%
18433 +\mdf@frametitleaboveskip@length
18434 +\mdf@frametitlebelowskip@length
18435 \relax%
18436 }
18437
18438 \renewrobustcmd*\mdf@footnoteoutput{%
18439 \ifvoid\@mpfootins\else%
18440 \nobreak%
18441 \vskip\mdf@footnotedistance@length%
18442 \normalcolor%
18443 \bidi@mpfootnoterule%
18444 \unvbox\@mpfootins%
18445 \fi%
18446 }
18447
18448
18449 \renewrobustcmd*\mdf@footnoteinput{%
18450 \def\@mpfn{mpfootnote}%
18451 \def\thempfn{\thempfootnote}%
18452 \c@mpfootnote\z@%
18453 \let\@footnotetext\@mpfootnotetext%
18454 \let\@LTRfootnotetext\@mpLTRfootnotetext%
18455 \let\@RTLfootnotetext\@mpRTLfootnotetext%
18456 }

```



## 113 File media9-xetex-bidi.def

```
18457 \ProvidesFile{media9-xetex-bidi.def}[2025/01/03 v0.1 bidi adaptations for media9 package for  
18458 \RequirePackage{bidi-media9}
```

## 114 File bidi-media9.sty

```
18459 \ProvidesExplPackage{bidi-media9}{2022/02/18}{0.4}  
18460 {bidi fixes for media9 package for the XeTeX engine}  
18461  
18462 \keys_define:nn{media9/mbtn}{  
18463   draft .code:n = {},  
18464   final .code:n = {},  
18465  
18466   tooltip .tl_gset_x:N = \g_mix_tooltip_tl,  
18467   tooltip .value_required:n = {true},  
18468  
18469   overface .code:n = {  
18470     \sbox\l_mix_poster_box{  
18471       \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}  
18472       \mix_pdfxform:n{\l_mix_poster_box}  
18473       \tl_gset:Nx\g_mix_overbtn_tl{\mix_pdflastxform:}  
18474     },  
18475     overface .value_required:n = {true},  
18476  
18477     downface .code:n = {  
18478       \sbox\l_mix_poster_box{  
18479         \bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{#1}}{\if@RTL\beginR\fi#1\if@RTL\endR\fi}  
18480         \mix_pdfxform:n{\l_mix_poster_box}  
18481         \tl_gset:Nx\g_mix_downbtn_tl{\mix_pdflastxform:}  
18482       },  
18483       downface .value_required:n = {true},  
18484  
18485       3Dgotoview .code:n = {  
18486         \tl_set:Nx\l_tmpa_tl{#1} %extract ref  
18487         \regex_replace_once:nnN{([~:~]+)??.*}{\1}\l_tmpa_tl  
18488         \tl_trim_spaces:N\l_tmpa_tl  
18489         \tl_if_exist:cTF{ann@\l_tmpa_tl}{  
18490           \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{  
18491             \tl_set:Nx\l_tmpb_tl{#1} %extract idx  
18492             \regex_replace_once:nnN{[~:~]+:~?}{\1}\l_tmpb_tl  
18493             \tl_trim_spaces:N\l_tmpb_tl  
18494             \tl_if_blank:VF\l_tmpb_tl{  
18495               \regex_match:nVTF{^[DFLNP]$}\l_tmpb_tl{  
18496                 \tl_set:Nx\l_mix_vidx_tl{/}\l_tmpb_tl  
18497               }{  
18498                 \regex_match:nVTF{^~d+$}\l_tmpb_tl{  
18499                   \tl_set:Nx\l_mix_vidx_tl{~}\l_tmpb_tl  
18500                 }{  
18501                   \regex_replace_once:nnN{^(\s*)}{\1}\l_tmpb_tl  
18502                   \regex_replace_once:nnN{(\s*)$}{\1}\l_tmpb_tl  
18503                   \tl_set:Nx\l_mix_vidx_tl{~(\1}\l_tmpb_tl)  
18504                 }  
18505               }  
18506             }  
18507           }  
18508         }  
18509       }  
18510     }  
18511   }
```



```

18506     }
18507     \mix_pdfobj:nnn(){dict}{
18508       /S/JavaScript/JS~(
18509         if(typeof(annotRM)=='undefined'){annotRM=new-Array();}
18510         if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18511           annotRM['\l_tmpa_tl']=
18512             this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18513         }
18514         annotRM['\l_tmpa_tl'].activated=true;
18515       )
18516       \tl_if_blank:VF\l_tmpb_tl{
18517         /Next~<<
18518         /S/GoTo3DView
18519         /TA~\tl_use:c{ann@\l_tmpa_tl}
18520         /V\l_mix_vidx_tl
18521         >>
18522       }
18523     }
18524     \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18525   }
18526 }{
18527   \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
18528   \cs_if_exist:NF\g_mix_refundefwarned_tl{
18529     \tl_new:N\g_mix_refundefwarned_tl
18530     \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
18531   }
18532 }
18533 },
18534 3Dgotoview .value_required:n = {true},
18535
18536 mediacommand .code:n = {
18537   \tl_set:Nx\l_tmpa_tl{#1}
18538   \regex_replace_once:nnN{([~:])+}??.*{\1}\l_tmpa_tl %extract ref
18539   \tl_trim_spaces:N\l_tmpa_tl
18540   \tl_if_exist:cTF{ann@\l_tmpa_tl}{
18541     \str_if_eq:eeF{\tl_use:c{ann@\l_tmpa_tl}}{draft}{
18542       \tl_set:Nx\l_tmpb_tl{#1}
18543       \regex_replace_once:nnN{[~:]+\?:?}{\1}\l_tmpb_tl
18544       \tl_trim_spaces:N\l_tmpb_tl
18545       \regex_replace_all:nnN{^{\|\\}$}{\1}\l_tmpb_tl
18546       \tl_set:Nx\l_mix_cmd_tl{
18547         \exp_after:wN\mix_separate_cmd_from_actn:w\l_tmpb_tl[]\q_stop}
18548       \tl_trim_spaces:N\l_mix_cmd_tl
18549       \tl_set:Nx\l_mix_arg_tl{
18550         \exp_after:wN\mix_separate_arg_from_actn:w\l_tmpb_tl[]\q_stop}
18551       \tl_trim_spaces:N\l_mix_arg_tl
18552       \mix_pdfobj:nnn(){dict}{
18553         /S/JavaScript/JS~(
18554           if(typeof(annotRM)=='undefined'){annotRM=new-Array();}
18555           if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18556             annotRM['\l_tmpa_tl']=
18557               this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18558           }
18559           annotRM['\l_tmpa_tl'].activated=true;

```



```

18560     )
18561     \tl_if_blank:VF\l_mix_cmd_tl{
18562       /Next~<<
18563       /S/RichMediaExecute
18564       /TA~\tl_use:c{ann@\l_tmpa_tl}
18565       /TI~\tl_use:c{main@\l_tmpa_tl}
18566       /CMD~<<
18567       /C~(\l_mix_cmd_tl)
18568       \tl_if_blank:VF\l_mix_arg_tl{
18569         /A~[\l_mix_arg_tl]
18570       }
18571       >>
18572     >>
18573   }
18574 }
18575 \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18576 }
18577 }{
18578   \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
18579   \cs_if_exist:NF\g_mix_refundefwarned_tl{
18580     \tl_new:N\g_mix_refundefwarned_tl
18581     \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
18582   }
18583 }
18584 },
18585 mediacommand .value_required:n = {true},
18586
18587 jsaction .code:n = {
18588   \tl_set:Nx\l_tmpa_tl{#1}
18589   \regex_match:nVTF{^[^{:}]++.*$}\l_tmpa_tl{
18590     \regex_replace_once:nnN{([~:])+:??.*}{\1}\l_tmpa_tl %extract ref
18591     \tl_trim_spaces:N\l_tmpa_tl
18592   }{\tl_clear:N\l_tmpa_tl}
18593   \tl_set:Nx\l_tmpb_tl{#1}
18594   \tl_if_blank:VF\l_tmpa_tl{
18595     \tl_if_exist:cF{ann@\l_tmpa_tl}{
18596       \msg_warning:nnx{media9}{undefined-reference}{\l_tmpa_tl}
18597       \cs_if_exist:NF\g_mix_refundefwarned_tl{
18598         \tl_new:N\g_mix_refundefwarned_tl
18599         \AtEndDocument{\msg_warning:nn{media9}{undefined-references}}
18600       }
18601     }
18602     \regex_replace_once:nnN{[~:]+\.:}{\1}\l_tmpb_tl
18603   }
18604   \tl_set:Nx\l_tmpb_tl{\exp_after:wN\use:n\l_tmpb_tl}
18605   \tl_trim_spaces:N\l_tmpb_tl
18606   \tl_if_blank:VF\l_tmpb_tl{
18607     \mix_pdfobj:nnn{}{dict}{
18608       /S/JavaScript/JS~(
18609         try{\l_tmpb_tl}catch(e){console.show();console.println(e)}))}
18610   \bool_lazy_and:nnT{
18611     \tl_if_exist_p:c{ann@\l_tmpa_tl}
18612   }{
18613     !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}

```



```

18614     }{
18615         \mix_pdfobj:nnn{}{dict}{
18616             /S/JavaScript/JS~(
18617                 if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18618                 if(typeof(annotRM['\l_tmpa_tl'])=='undefined'){
18619                     annotRM['\l_tmpa_tl']=
18620                         this.getAnnotRichMedia(\tl_use:c{page@\l_tmpa_tl},'\l_tmpa_tl');
18621                 }
18622                 annotRM['\l_tmpa_tl'].activated=true;
18623             )
18624             \tl_if_blank:VF\l_tmpb_tl{/Next~\mix_pdflastobj:}
18625         }
18626     }
18627     \bool_if:nT{
18628         \bool_lazy_and_p:nn{
18629             \tl_if_exist_p:c{ann@\l_tmpa_tl}
18630         }{
18631             !\str_if_eq_p:ee{\tl_use:c{ann@\l_tmpa_tl}}{draft}
18632         }
18633         || !\tl_if_blank_p:V\l_tmpb_tl
18634     }{
18635         \tl_gput_right:Nx\g_mix_btnactions_tl{~\mix_pdflastobj:}
18636     }
18637 },
18638 jsaction .value_required:n = {true},
18639
18640 unknown .code:n = {
18641     \msg_error:nnx{media9}{unknown~option}{\l_keys_key_tl}
18642 }
18643 }
18644
18645 \RenewDocumentCommand\includemedia{O{}mm}{%#1 options, #2 text/image #3 media file
18646 \mix_uriend:
18647 \group_begin:
18648 \mix_beginLTR:
18649 \mode_leave_vertical:
18650 %empty stream as appearance dummy
18651 \cs_if_exist:NF\g_mix_appearance_tl{
18652     \hbox_set:Nn\l_mix_poster_box{\phantom{\rule{1pt}{1pt}}}
18653     \mix_pdfxform:n{\l_mix_poster_box}
18654     \tl_gset:Nx\g_mix_appearance_tl{\mix_pdflastxform:}
18655 }
18656 \mix_reset:
18657 \mix_uribegin: %treat URI characters correctly
18658 \keys_set:nn{media9/user}{#1}
18659 \mix_uriend:
18660 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~&}{&}
18661 \tl_greplace_all:Nnn\g_mix_flashvars_tl{&~}{&}
18662 \tl_greplace_all:Nnn\g_mix_flashvars_tl{~=}{=}
18663 \tl_greplace_all:Nnn\g_mix_flashvars_tl{=~}{=}
18664 \tl_gtrim_spaces:N\g_mix_flashvars_tl
18665
18666 \cs_if_exist:NT\Ginput@path{\cs_set_eq:NN\input@path\Ginput@path}
18667

```



```

18668 %\hbox_set:Nn\l_mix_poster_box{\group_begin:#2\group_end:}
18669 %\hbox_set:Nn\l_mix_poster_box{#2}
18670 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
18671 \mix_scale:n{\l_mix_poster_box}
18672 \bool_if:nT{
18673   \dim_compare_p:n{\g_mix_tt_tl=\c_zero_dim}||
18674   \dim_compare_p:n{\g_mix_wd_tl=\c_zero_dim}
18675 }{
18676   \tl_gset:Nn\g_mix_usrpbtn_tl{none}
18677 }
18678 \bool_if:NTF\g_mix_usrdraft_bool{
18679   \tl_if_empty:NF\g_mix_usrlabel_tl{
18680     \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{draft}
18681   }
18682   \tl_if_blank:oTF{#2}{
18683     \mix_uribegin: %treat URI characters correctly
18684     \mix_draftbox:n{\tl_to_str:n{#3}}
18685     \mix_uriend:
18686   }{
18687     \hbox_to_wd:nn{\g_mix_wd_tl}{
18688       \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl
18689       \box_use:N\l_mix_poster_box\hss
18690     }
18691   }
18692 }{
18693   \bool_if:nF{\str_if_eq_p:Vn\g_mix_usrpbtn_tl{none}}{
18694     %attach script that switches off play button overlay upon activation
18695     \mix_pdfobj:nnn{}{stream}{
18696       {}{
18697         var~ocgs=host.getOCGs(host.pageNum);
18698         for(var~i=0;i<ocgs.length;i++){
18699           if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
18700             ocgs[i].state=false;
18701           }
18702         }
18703       }
18704     }
18705     \mix_pdfobj:nnn{}{dict}{
18706       /Type/Filespec/EF~<</F~\mix_pdflastobj:>>/F~(btnoff)%/UF~(btnoff)
18707     }
18708     \tl_gset:Nx\g_mix_assets_tl{(btnoff)~\mix_pdflastobj:}
18709     \tl_set:Nx\l_mix_scripts_tl{~\mix_pdflastobj:~}
18710     %enforce plain playbutton overlay for XeTeX
18711     \sys_if_engine_xetex:T{\tl_gset:Nn\g_mix_usrpbtn_tl{plain}}
18712   }
18713   %embed main asset
18714   \mix_uribegin:
18715   \mix_embedasset:n{#3}
18716   \bool_if:nTF{
18717     \str_if_eq_p:Vn\l_mix_ext_tl{prc}||\str_if_eq_p:Vn\l_mix_ext_tl{u3d}
18718   }{
18719     \bool_gset_true:N\g_mix_iiid_bool
18720     \tl_gset:Nn\g_mix_mainassetsub_tl{3D}
18721   }{

```



```

18722 \str_case_e:nnF{\l_mix_base_tl}{
18723   {APlayer}}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
18724   {AudioPlayer}}{\tl_gset:Nn\g_mix_mainassetsub_tl{Sound}}
18725   {VPlayer}}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18726   {VideoPlayer}}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18727   {StrobeMediaPlayback}}{\tl_gset:Nn\g_mix_mainassetsub_tl{Video}}
18728 }{\tl_gset:Nn\g_mix_mainassetsub_tl{Flash}}
18729 }
18730 \tl_gset:Nx\g_mix_mainasset_tl{~\g_mix_lastasset_tl}
18731 \mix_urriend:
18732 %secondary assets (added by addresource)
18733 \seq_map_function:NN\g_mix_res_seq\mix_embedasset:n
18734 \seq_map_inline:Nn\g_mix_script_seq{
18735   \mix_embedasset:n{##1}
18736   \tl_put_right:Nx\l_mix_scripts_tl{~\g_mix_lastasset_tl}
18737 }
18738 %attach 3D calculation script
18739 \bool_if:nT{\g_mix_iiid_bool && \g_mix_iiidcalc_bool}{
18740   \mix_embedasset:n{3Dmenu.js}
18741   \tl_put_left:Nx\l_mix_scripts_tl{\g_mix_lastasset_tl~}
18742 }
18743 %create 3D views from file (option 3Dviews)
18744 \bool_if:nT{\g_mix_iiid_bool && !(\tl_if_blank_p:V\g_mix_vfile_tl)}{
18745   \tl_set:Nn\l_mix_level_tl{-1}
18746   \int_zero:N\l_mix_viewcnt_int
18747   \int_zero:N\l_mix_lineno_int
18748
18749   \ior_open:Nn\l_mix_vfile_stream{\g_mix_vfile_tl}
18750   \ior_map_inline:Nn\l_mix_vfile_stream{
18751     \int_incr:N\l_mix_lineno_int
18752     \keys_set:nn{media9/views}{##1} %process input line
18753   }
18754   \ior_close:N\l_mix_vfile_stream
18755 }
18756 \bool_if:nT{ %create default 3D view if required
18757   \g_mix_iiid_bool &&
18758   (\g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl)
18759 }{
18760   \tl_set_eq:NN\l_mix_bg_tl\g_mix_opt_bg_tl
18761   \tl_set_eq:NN\l_mix_ls_tl\g_mix_opt_ls_tl
18762   \tl_set_eq:NN\l_mix_rm_tl\g_mix_opt_rm_tl
18763   \tl_set_eq:NN\l_mix_psob_tl\g_mix_opt_psob_tl
18764   \tl_set_eq:NN\l_mix_coo_tl\g_mix_opt_coo_tl
18765   \tl_set_eq:NN\l_mix_ctoc_tl\g_mix_opt_ctoc_tl
18766   \tl_set_eq:NN\l_mix_ciiw_tl\g_mix_opt_ciiw_tl
18767
18768   \fp_set_eq:NN\l_mix_roo_fp\g_mix_opt_roo_fp
18769   \fp_set_eq:NN\l_mix_aac_fp\g_mix_opt_aac_fp
18770   \fp_set_eq:NN\l_mix_oscale_fp\g_mix_opt_oscale_fp
18771   \fp_set_eq:NN\l_mix_roll_fp\g_mix_opt_roll_fp
18772
18773   \bool_set_eq:NN\l_mix_ciiw_bool\g_mix_opt_ciiw_bool
18774   \bool_set_eq:NN\l_mix_iiidortho_bool\g_mix_opt_iiidortho_bool
18775   \tl_clear:N\l_mix_naarray_tl

```



```

18776
18777 \bool_if:NF\l_mix_ciiw_bool{
18778 \tl_set:Nx\l_mix_args_tl{\l_mix_coo_tl\space\l_mix_ctoc_tl\space}
18779 \exp_after:wN\mix_calc_ciiw:w\l_mix_args_tl\q_stop
18780 }
18781
18782 \tl_clear:N\l_mix_naarray_tl
18783 \tl_clear:N\l_mix_saarray_tl
18784 \tl_set_eq:NN\l_mix_nr_tl\g_mix_nrdflt_tl
18785
18786 \mix_view:n{Default}
18787 \tl_set:Nx\l_mix_dfltvview_tl{\mix_pdflastobj:}
18788
18789 }
18790 \mix_pdfobj:nnn{}{dict}{
18791 /Type/RichMediaInstance
18792 /Subtype/\g_mix_mainassetsub_tl
18793 /Asset~\g_mix_mainasset_tl
18794 \bool_if:NF\g_mix_iiid_bool{
18795 /Params~<<
18796 /Binding\str_if_eq:VnTF\g_mix_transp_tl{true}{
18797 /Foreground
18798 }{
18799 /Background
18800 }
18801 \tl_if_blank:VF\g_mix_flashvars_tl{
18802 /FlashVars~(\g_mix_flashvars_tl)
18803 }
18804 >>
18805 }
18806 }
18807 \tl_if_empty:NF\g_mix_usrlabel_tl{
18808 \mix_keytoaux_now:nn{main@\g_mix_usrlabel_tl}{\mix_pdflastobj:}
18809 }
18810 \mix_pdfobj:nnn{}{dict}{
18811 /Type/RichMediaConfiguration
18812 /Subtype/\g_mix_mainassetsub_tl
18813 /Instances~[\mix_pdflastobj:]
18814 }
18815 \mix_pdfobj:nnn{}{dict}{
18816 /Type/RichMediaContent
18817 /Assets~<</Names~[\g_mix_assets_tl]>>
18818 /Configurations~[\mix_pdflastobj:]
18819 \bool_if:nT{
18820 \g_mix_iiid_bool && !(\tl_if_empty_p:V\l_mix_iiidviewarray_tl)
18821 }{
18822 /Views~[\l_mix_iiidviewarray_tl]
18823 }
18824 }
18825 \tl_set:Nx\l_mix_content_tl{\mix_pdflastobj:}
18826 \bool_if:nT{
18827 \g_mix_iiid_bool && \str_if_eq_p:Vn\g_mix_playtpe_tl{Oscillating}
18828 }{
18829 \tl_gset:Nx\g_mix_playcnt_tl{\int_eval:n{\g_mix_playcnt_tl*2}}

```





```

18830 }
18831 %determine floating window size
18832 \bool_if:NT\g_mix_opt_windowed_bool{
18833   \exp_after:wN\mix_parse_winsizearg:w\g_mix_winsize_tl\q_stop
18834 }
18835 \mix_pdfobj:nnn{}{dict}{
18836   /Activation~<<
18837   /Condition\g_mix_act_tl
18838   \bool_if:nT{
18839     \g_mix_iiid_bool &&
18840     !(\str_if_eq_p:Vn\g_mix_playtpe_tl{None})
18841   }{%seems to work only with 3D content
18842     /Animation~<<
18843     /Subtype/\g_mix_playtpe_tl
18844     /PlayCount~\g_mix_playcnt_tl
18845     /Speed~\g_mix_playspd_tl
18846   >>
18847 }
18848 \bool_if:nT{
18849   \g_mix_iiid_bool && (
18850     \g_mix_opt_iiidview_bool || \tl_if_blank_p:V\l_mix_iiidviewarray_tl
18851   )
18852 }{/View~\l_mix_dfltview_tl}
18853 /Presentation~<<
18854 /Transparent~\g_mix_transp_tl
18855 \bool_if:NTF\g_mix_opt_windowed_bool{
18856   /Style/Windowed
18857 /Window~<<
18858   /Width~<</Default~\tl_mix_fltd>>
18859   /Height~<</Default~\tl_mix_flht>>
18860   /Position~<<
18861   /HOffset~0/VOffset~0
18862   \str_case_e:nnF{\g_mix_winpos_tl}{
18863     {tl}{/VAlign/Near/HAlign/Near}
18864     {cl}{/VAlign/Center/HAlign/Near}
18865     {bl}{/VAlign/Far/HAlign/Near}
18866     {bc}{/VAlign/Far/HAlign/Center}
18867     {br}{/VAlign/Far/HAlign/Far}
18868     {cr}{/VAlign/Center/HAlign/Far}
18869     {tr}{/VAlign/Near/HAlign/Far}
18870     {tc}{/VAlign/Near/HAlign/Center}
18871   }{/HAlign/Center/VAlign/Center}
18872   >>
18873   >>
18874   }{
18875     /Style/Embedded
18876   }
18877   \bool_if:NTF\g_mix_iiid_bool{
18878     /Toolbar~\g_mix_tools_tl
18879     /NavigationPane~\g_mix_nav_tl
18880   }{
18881     /PassContextClick~\g_mix_contextclick_tl
18882   }
18883   >>

```



```

18884      \tl_if_blank:VF\l_mix_scripts_tl{/Scripts~[\l_mix_scripts_tl]}
18885      >>
18886      /Deactivation~<</Condition\g_mix_deact_tl>>
18887  }
18888  \tl_set:Nx\l_mix_settings_tl{\mix_pdflastobj:}
18889  \tl_if_empty:NF\g_mix_usrlabel_tl{
18890    \tl_gset_eq:NN\g_mix_label_tl\g_mix_usrlabel_tl
18891  }
18892  % #1:width, #2:height, #3:depth, #4:content (key-value)
18893  \mix_pdfannot:nnnn{\g_mix_wd_tl}{\g_mix_ht_tl}{\g_mix_dp_tl}{
18894    /Subtype/RichMedia
18895    /F~4
18896    /BS~<</W~0/S/S>>
18897    /Contents~(media~embedded~by~media9~[\g_mix_version_tl~(\g_mix_date_tl)])
18898    /NM~(\g_mix_label_tl)
18899    /AP~<</N~\g_mix_appearance_tl>>
18900    /RichMediaSettings~\l_mix_settings_tl
18901    /RichMediaContent~\l_mix_content_tl
18902  }
18903  \tl_if_empty:NF\g_mix_usrlabel_tl{
18904    \mix_keytoaux_now:nn{ann@\g_mix_usrlabel_tl}{\mix_pdflastann:}
18905    \mix_keytoaux_shipout:nn{page@\g_mix_usrlabel_tl}{
18906      \noexpand\the\g@mix@page@int}
18907  }
18908  \mix_pdfobj:nnn{}{dict}{
18909    /S/JavaScript/JS~(
18910      try{
18911        if(typeof(annotRM)=='undefined'){annotRM=new~Array();}
18912        if(typeof(annotRM['\g_mix_label_tl'])=='undefined'){
18913          annotRM['\g_mix_label_tl']=
18914            this.getAnnotRichMedia(this.pageNum,'\g_mix_label_tl');
18915        }
18916        \str_if_eq:eeF{\g_mix_usrpbtn_tl}{none}{
18917          if(typeof(ocgBtn\int_use:N\g_mix_rmcnt_int)=='undefined'){
18918            var~ocgs=this.getOCGs(this.pageNum);
18919            for(var~i=0;i<ocgs.length;i++){
18920              if(ocgs[i].name=='MediaPlayerButton\int_use:N\g_mix_rmcnt_int'){
18921                var~ocgBtn\int_use:N\g_mix_rmcnt_int=ocgs[i];
18922              }
18923            }
18924          }
18925          if(
18926            !annotRM['\g_mix_label_tl'].activated&&(
18927              app.viewerType=='Reader' ||
18928              app.viewerType=='Exchange' ||
18929              app.viewerType=='Exchange-Pro'
18930            )&&app.viewerVersion>=9
18931          ){
18932            ocgBtn\int_use:N\g_mix_rmcnt_int.state=true;
18933          }
18934        }
18935      }catch(e){}
18936      this.dirty=false;
18937    )

```



```

18938 }
18939 \mix_pdfannot:nnnn{Opt}{Opt}{Opt}{
18940 /Subtype/Widget
18941 /FT/Btn/Ff~65537/F~2
18942 /BS~<</W~0>>
18943 /T~(fd@~\g_mix_label_tl)
18944 /AA~<</PO~\mix_pdflastobj:~/PV~\mix_pdflastobj:>>
18945 }
18946 \mix_appendtofields:n{\mix_pdflastann:}
18947 \hbox_overlap_right:n{\box_use:N~\l_mix_poster_box}
18948 \str_if_eq:eeTF{\g_mix_usrpbtn_tl}{none}{
18949 \hbox_to_wd:nn{\g_mix_wd_tl}{
18950 \vrule~width~\c_zero_dim~height~\g_mix_ht_tl~depth~\g_mix_dp_tl~hss
18951 }
18952 }{%insert play button overlay
18953 \mix_insert_btnocg: %create OCG
18954 \cs_gset_eq:Nc~\mix_pbtn:NN{g~\mix_usrpbtn_tl @tl}
18955 \group_begin:
18956 \cs_if_exist:NT~\textdir{\textdir TLT}
18957 \sbox~\l_mix_pbtn_box{\mix_pbtn:NN~\g_mix_wd_tl~\g_mix_tt_tl}
18958 \box_move_down:nn{\g_mix_dp_tl}{
18959 \hbox_to_wd:nn{\g_mix_wd_tl}{
18960 \vbox_to_ht:nn{\g_mix_tt_tl}{
18961 \vss
18962 \ocgbase_oc_bdc:n{\g_mix_btnocg_tl}
18963 \box_use:N~\l_mix_pbtn_box
18964 \ocgbase_oc_emc:
18965 }
18966 }
18967 }
18968 \group_end:
18969 }
18970 \int_gincr:N~\g_mix_rmcnt_int
18971 }
18972 \mix_endLTR:
18973 \group_end:
18974 }
18975 \tl_set_eq:NN~\l_mix_includemedia_tl~\includemedia
18976 \tl_set:Nn~\includemedia{\mix_uribegin:~\l_mix_includemedia_tl}
18977
18978 \RenewDocumentCommand~\mediabutton{0{}m}{%#1 options, #2 normal button text
18979 \mix_uribegin:
18980 \group_begin:
18981 \mix_beginLTR:
18982 \mode_leave_vertical:
18983 %reset various variables
18984 \tl_gclear:N~\g_mix_overbtn_tl
18985 \tl_gclear:N~\g_mix_downbtn_tl
18986 \tl_gclear:N~\g_mix_btnactions_tl
18987 \tl_gclear:N~\g_mix_tooltip_tl
18988 %process options
18989 \bool_gset_eq:NN~\g_mix_btndraft_bool~\g_mix_pkgdraft_bool
18990 \mix_uribegin: %treat URI characters correctly
18991 \keys_set:nn{media9~\mbtndraft}{#1} %detect draft/final on first pass

```



```

18992 \bool_if:NF\g_mix_btndraft_bool{\keys_set:nn{media9/mbtn}{#1}}
18993 \mix_urien:
18994 %normal button appearance
18995 %\hbox_set:Nn\l_mix_poster_box{#2}
18996 \sbox\l_mix_poster_box{\if@RTL\beginR\fi#2\if@RTL\endR\fi}
18997 \tl_set:Nx\width {\dim_use:N\box_wd:N\l_mix_poster_box}
18998 \tl_set:Nx\height{\dim_use:N\box_ht:N\l_mix_poster_box}
18999 \tl_set:Nx\depth {\dim_use:N\box_dp:N\l_mix_poster_box}
19000 \bool_if:NTF\g_mix_btndraft_bool{\box_use:N\l_mix_poster_box}{
19001   \sbox\l_mix_poster_box{\bool_if:NTF\g_pbs_lscape_bool{\rotatebox{90}{
19002     \box_use:N\l_mix_poster_box}}{\box_use:N\l_mix_poster_box}}
19003   \mix_pdfxform:n{\l_mix_poster_box}
19004   \tl_set:Nx\g_mix_normalbtn_tl{\mix_pdflastxform:}
19005   %insert widget annotation
19006   \mix_pdfannot:nnnn{\width}{\height}{\depth}{
19007     /Subtype/Widget
19008     /T~(mbtn@int_use:N\g_mix_mbtncnt_int)
19009     \tl_if_empty:NF\g_mix_tooltip_tl{/TU~(\g_mix_tooltip_tl)}
19010     /FT/Btn/Ff~65536
19011     \tl_if_empty:NTF\g_mix_downbtn_tl{/H/I}{/H/P}
19012     /AP~<<
19013       /N~\g_mix_normalbtn_tl
19014       \tl_if_empty:NF\g_mix_overbtn_tl{/R~\g_mix_overbtn_tl}
19015       \tl_if_empty:NF\g_mix_downbtn_tl{/D~\g_mix_downbtn_tl}
19016     >>
19017     /MK~<<
19018       /TP~1~/IF~<</S/A/FB~true/A~[0.0~0.0]>>
19019       /I~\g_mix_normalbtn_tl
19020       \tl_if_empty:NF\g_mix_overbtn_tl{/RI~\g_mix_overbtn_tl}
19021       \tl_if_empty:NF\g_mix_downbtn_tl{/IX~\g_mix_downbtn_tl}
19022     >>
19023     /A~<<
19024       /S/JavaScript/JS~(app.focusRect=false;)
19025       %sequence of actions to perform
19026       \tl_if_empty:NF\g_mix_btnactions_tl{/Next~[\g_mix_btnactions_tl]}
19027     >>
19028   }
19029   \mix_appendtofields:n{\mix_pdflastann:}
19030   \hbox_to_wd:nn{\width}{
19031     \vrule~width~\c_zero_dim~height~\height~depth~\depth\hss
19032   }
19033   \int_gincr:N\g_mix_mbtncnt_int
19034 }
19035 \mix_endLTR:
19036 \group_end:
19037 }
19038 \tl_set_eq:NN\l_mix_mediabutton_tl\mediabutton
19039 \tl_set:Nn\mediabutton{\mix_uribegin:\l_mix_mediabutton_tl}
19040

```

## 115 File memoir-xetex-bidi.def

```

19041 \ProvidesFile{memoir-xetex-bidi.def}[2025/01/03 v0.7 bidi adaptations for memoir class for Xe
19042 \renewcommand{\keepthetitle}{%

```



```

19043 \@bsmtitleempty
19044 \global\let\thanks\relax
19045 \global\let\LTRthanks\relax
19046 \global\let\RTLthanks\relax
19047 \global\let\and\relax
19048 \global\let\andnext\relax
19049 \global\let\@thanks\@empty
19050 \global\let\@title\@empty
19051 \global\let\@author\@empty
19052 \global\let\@date\@empty}
19053 \renewcommand{\maketitle}{\par
19054 \begingroup
19055 \@bsmarkseries
19056 \def\@makefnmark{\@textsuperscript{%
19057 \normalfont\@bsthanksheadpre \tamark \@bsthanksheadpost}}%
19058 \long\def\@makefntext##1{\makethanksmark ##1}
19059 \if@twocolumn
19060 \ifnum \col@number=\@ne
19061 \@maketitle
19062 \else
19063 \twocolumn[\@maketitle]%
19064 \fi
19065 \else
19066 \ifdim\pagetotal>z@
19067 \newpage
19068 \fi
19069 \global\@topnum\z@
19070 \@maketitle
19071 \fi
19072 \thispagestyle{title}\@thanks
19073 \endgroup
19074 \@bscontmark % \setcounter{footnote}{0}%
19075 }
19076 \renewcommand*{\memRTLleftskip}{\if@RTL\rightskip\else\leftskip\fi}
19077 \renewcommand*{\memRTLrightskip}{\if@RTL\leftskip\else\rightskip\fi}
19078 \renewcommand*{\memRTLvleftskip}{\if@RTL\vrightskip\else\vleftskip\fi}
19079 \renewcommand*{\memRTLvrightskip}{\if@RTL\vleftskip\else\vrightskip\fi}
19080 \renewcommand*{\memRTLraggedright}{\if@RTL\raggedleft\else\raggedright\fi}
19081 \renewcommand*{\memRTLraggedleft}{\if@RTL\raggedright\else\raggedleft\fi}
19082 \renewcommand*{\thesection}{\thechapter\@SepMark\@arabic\c@section}
19083 \renewcommand*{\thesubsection}{%
19084 \thesection\@SepMark\@arabic\c@subsection}
19085 \renewcommand*{\thesubsubsection}{%
19086 \thesubsection\@SepMark\@arabic\c@subsubsection}
19087 \renewcommand*{\theparagraph}{%
19088 \thesubsubsection\@SepMark\@arabic\c@paragraph}
19089 \renewcommand*{\thesubparagraph}{%
19090 \theparagraph\@SepMark\@arabic\c@subparagraph}
19091 \renewcommand{\setthesection}{\thechapter\@SepMark\Alph{section}}
19092 \renewcommand{\theequation}{%
19093 \ifnum \c@chapter>z@ \thechapter\@SepMark\fi \@arabic\c@equation}
19094 \renewcommand{\thefigure}{\thechapter\@SepMark\@arabic\c@figure}
19095 \renewcommand{\thetable}{\thechapter\@SepMark\@arabic\c@table}
19096 \ifartopt

```



```

19097 \chapterstyle{article}
19098 \counterwithout{figure}{chapter}
19099 \counterwithout{table}{chapter}
19100 \counterwithout{footnote}{chapter}
19101 \counterwithout{equation}{chapter}
19102 \renewcommand{\chaptername}{\}
19103 \renewcommand{\maketitlehookb}{\%
19104 \vskip -1.5\topsep\vskip -1.5\partopsep}
19105 \renewcommand{\maketitlehookc}{\%
19106 \vskip -1.5\topsep\vskip -1.5\partopsep}
19107 \fi
19108 \long\def\@makecaption#1#2{\let\@memtempa\relax
19109 \ifdim\prevdepth>-99\p@ \vskip\abovecaptionskip
19110 \else \def\@memtempa{\vbox to\topskip{}}\fi
19111 \let\@contfnote\footnote \renewcommand{\footnote}[2] [] {}
19112 \let\@contfmark\footnotemark \renewcommand{\footnotemark}[1] [] {}
19113 \sbox\@tempboxa{\@contnfont #1\@contdelim \@conttfont #2\@contfinal}
19114 \let\footnote\@contfnote
19115 \let\footnotemark\@contfmark
19116 \ifdim\wd\@tempboxa<\linewidth \centering \fi
19117 \if@contcw
19118 \centering
19119 \parbox{\@contcwidth}{\%
19120 \ifdim\wd\@tempboxa<\@contcwidth \centering \fi
19121 \fi
19122 \ifdim\wd\@tempboxa<\linewidth
19123 \@contpre
19124 {\@contnfont #1\@contdelim}\@memtempa
19125 {\@contcshortstyle \@conttfont #2\@contfinal\par}
19126 \else
19127 \if@conthang
19128 \sbox\@tempboxa{\@contnfont #1\@contdelim}
19129 \@contpre%
19130 {\@contcstyle\hangindent=\wd\@tempboxa
19131 \noindent\box\@tempboxa\@memtempa \@conttfont #2\@contfinal\par}
19132 \else
19133 \if@contindent
19134 \@contpre%
19135 {\@contnfont #1\@contdelim}\@memtempa
19136 {\@contcstyle\hangindent=\@contindw
19137 \hangafter=\@one\@conttfont #2\@contfinal\par}% <- v1.4
19138 \else
19139 \@contpre%
19140 {\@contnfont #1\@contdelim}\@memtempa
19141 {\@contcstyle \@conttfont #2\@contfinal\par}
19142 \fi
19143 \fi
19144 \fi
19145 \@contpost
19146 \if@contcw
19147 \par
19148 } % end of the \parbox
19149 \fi
19150 \vskip\belowcaptionskip}

```



```

19151 \ApplyPatchCodeToPackage{caption}{%
19152 \AtBeginPackage{caption}{
19153 \ClassWarningNoLine{memoir}{%
19154   You are using the caption package with the memoir \MessageBreak
19155   class. This may cause unexpected or inconsistent \MessageBreak
19156   results if you use any of memoir's captioning facilities}
19157
19158 \long\def\@makecaption##1##2{%
19159   \vskip\abovecaptionskip
19160   \sbox\@tempboxa{\if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi}%
19161   \ifdim \wd\@tempboxa >\hsize
19162     \if@RTL\beginR\fi##1: ##2\if@RTL\endR\fi\par
19163   \else
19164     \global \@minipagefalse
19165     \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
19166   \fi
19167   \vskip\belowcaptionskip}
19168
19169 \def\caption{%
19170   \ifx\@cuptype\@undefined
19171     \@latex@error{\noexpand\caption outside float}\@ehd
19172     \expandafter\@gobble
19173   \else
19174     \refstepcounter\@cuptype
19175     \expandafter\@firstofone
19176   \fi
19177   {\@dblarg{\@caption\@cuptype}}%
19178 }
19179
19180 \long\def\@caption##1[##2]##3{%
19181   \par
19182   \addcontentsline{\csname ext@##1\endcsname}{##1}%
19183     {\protect\numberline{\csname the##1\endcsname}{\ignorespaces ##2}}%
19184   \begingroup
19185     \@parboxrestore
19186     \if@minipage
19187       \setminipage
19188     \fi
19189     \normalsize
19190     \@makecaption{\csname fnum@##1\endcsname}{\ignorespaces ##3}\par
19191   \endgroup}
19192 }}
19193 \renewenvironment{thebibliography}[1]{%
19194   \bibsection
19195   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19196   \bidi@thebibliography@font@hook%
19197   \begin{bibitemlist}{#1}}{\end{bibitemlist}\postbibhook}

```

## 116 File midfloat-xetex-bidi.def

```

19198 \ProvidesFile{midfloat-xetex-bidi.def}[2017/05/06 v0.4 bidi adaptations for midfloat package]
19199 \def\RTL@outputdblcol{%
19200   \if@firstcolumn
19201     \global \@firstcolumnfalse

```



```

19202 \global\setbox\@leftcolumn\copy\@outputbox
19203 \splitmaxdepth\maxdimen
19204 \vbadness\maxdimen
19205 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
19206 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
19207 \toks@\expandafter{\topmark}%
19208 \xdef\@firstcoltopmark{\the\toks@}%
19209 \toks@\expandafter{\splitfirstmark}%
19210 \xdef\@firstcolfirstmark{\the\toks@}%
19211 \ifx\@firstcolfirstmark\@empty
19212 \global\let\@setmarks\relax
19213 \else
19214 \gdef\@setmarks{%
19215 \let\firstmark\@firstcolfirstmark
19216 \let\topmark\@firstcoltopmark}%
19217 \fi
19218 \global\c@colht\@colht\global\c@addvipersep\z@
19219 \ifnum\jua@sk>0
19220 \remove@strip\jua@sar
19221 \global\@colht\the\jua@pr
19222 \ifdim\right@cor>\z@
19223 \global\advance\@colht by\right@cor
19224 \fi
19225 \global\advance\@colht by\cor@height
19226 \global\cor@height=0pt
19227 \fi
19228 \global \setbox\@rightcolumn \vbox{%
19229 \else
19230 \ifdim\c@colht>\@colht
19231 \@tempdima\@colht
19232 \ifdim\@colht>\z@
19233 \global\setbox\@rightcolumn \vbox{%
19234 \unvbox\@rightcolumn
19235 \vbox to\@tempdima{%
19236 \vskip\c@addvipersep\unvbox\@outputbox}%
19237 \vskip\stripsep
19238 \vrule height\the\jua@ht width 0pt depth 0pt
19239 \vskip\stripsep
19240 }%
19241 \global\c@addvipersep\m@addvipersep
19242 \else
19243 \global\setbox\@rightcolumn \vbox{%
19244 \unvbox\@rightcolumn
19245 \vrule height\the\jua@ht width 0pt depth 0pt
19246 \vskip\stripsep
19247 }%
19248 \fi
19249 \ifnum\jua@sk>0
19250 \remove@strip\jua@sar
19251 \global\@colht\the\jua@pr
19252 \global\advance\@colht by -\ht\@rightcolumn
19253 \global\advance\@colht by\cor@height
19254 \global\cor@height=0pt
19255 \else

```





```

19256             \global\advance\c@colht by-\ht\@rightcolumn
19257             \global\@colht\c@colht
19258         \fi
19259     \else
19260     \global\@firstcolumntrue
19261     \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
19262         \unvbox\@rightcolumn
19263         \vskip\c@addvipersep
19264         \unvbox\@outputbox
19265     }%
19266     \setbox\@outputbox \vbox {%
19267         \hb@xt@\textwidth {%
19268             \hskip \columnwidth
19269             \hfil
19270             \vrule \@width\columnseprule
19271             \hfil
19272             \hb@xt@\columnwidth {%
19273                 \bidi@firstcolumn@status@write%
19274                 \box\@leftcolumn \hss}%
19275             \hskip-\textwidth
19276             \hb@xt@\columnwidth {%
19277                 \bidi@lastcolumn@status@write%
19278                 \box\@outputbox \hss}%
19279             \hskip\columnwidth
19280             \hskip\columnsep}%
19281         }%
19282     \@combinedblfloats
19283     \@setmarks
19284     \@outputpage
19285     \begingroup
19286     \@dblfloatplacement
19287     \@startdblcolumn
19288     \@whiles\if@fcolmade \fi
19289     {\@outputpage
19290     \@startdblcolumn}%
19291     \endgroup
19292     \global\jua@sk=0\global\jua@sar={}%
19293     \global\cor@height\z@\global\c@addvipersep\z@
19294     \fi
19295 \fi
19296 }
19297
19298
19299 \def\LTR@outputdblcol{%
19300 \if@firstcolumn
19301 \global \@firstcolumnfalse
19302 \global\setbox\@leftcolumn\copy\@outputbox
19303 \splitmaxdepth\maxdimen
19304 \vbadness\maxdimen
19305 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
19306 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
19307 \toks@\expandafter{\topmark}%
19308 \xdef\@firstcoltopmark{\the\toks@}%
19309 \toks@\expandafter{\splitfirstmark}%

```



```

19310 \xdef\@firstcolfirstmark{\the\toks@}%
19311 \ifx\@firstcolfirstmark\@empty
19312 \global\let\@setmarks\relax
19313 \else
19314 \gdef\@setmarks{%
19315 \let\firstmark\@firstcolfirstmark
19316 \let\topmark\@firstcoltopmark}%
19317 \fi
19318 \global\c@colht\@colht\global\c@advvipersep\z@
19319 \ifnum\jua@sk>0
19320 \remove@strip\jua@sar
19321 \global\@colht\the\jua@pr
19322 \ifdim\right@cor>\z@
19323 \global\advance\@colht by\right@cor
19324 \fi
19325 \global\advance\@colht by\cor@height
19326 \global\cor@height=0pt
19327 \fi
19328 \global\setbox\@rightcolumn\vbox{%
19329 \else
19330 \ifdim\c@colht>\@colht
19331 \@tempdima\@colht
19332 \ifdim\@colht>\z@
19333 \global\setbox\@rightcolumn\vbox{%
19334 \unvbox\@rightcolumn
19335 \vbox to\@tempdima{%
19336 \vskip\c@advvipersep\unvbox\@outputbox}%
19337 \vskip\stripsep
19338 \vrule height\the\jua@ht width 0pt depth 0pt
19339 \vskip\stripsep
19340 }%
19341 \global\c@advvipersep\m@advvipersep
19342 \else
19343 \global\setbox\@rightcolumn\vbox{%
19344 \unvbox\@rightcolumn
19345 \vrule height\the\jua@ht width 0pt depth 0pt
19346 \vskip\stripsep
19347 }%
19348 \fi
19349 \ifnum\jua@sk>0
19350 \remove@strip\jua@sar
19351 \global\@colht\the\jua@pr
19352 \global\advance\@colht by-\ht\@rightcolumn
19353 \global\advance\@colht by\cor@height
19354 \global\cor@height=0pt
19355 \else
19356 \global\advance\c@colht by-\ht\@rightcolumn
19357 \global\@colht\c@colht
19358 \fi
19359 \else
19360 \global\@firstcolumntrue
19361 \global\setbox\@outputbox\vbox to\ht\@leftcolumn{%
19362 \unvbox\@rightcolumn
19363 \vskip\c@advvipersep

```



```

19364         \unvbox\@outputbox
19365     }%
19366 \setbox\@outputbox \vbox {%
19367     \hb@xt@\textwidth {%
19368         \hb@xt@\columnwidth {%
19369             \bidi@firstcolumn@status@write%
19370             \box\@leftcolumn \hss}%
19371         \hfil
19372         \vrule \@width\columnseprule
19373         \hfil
19374         \hb@xt@\columnwidth {%
19375             \bidi@lastcolumn@status@write%
19376             \box\@outputbox \hss}%
19377         }%
19378     }%
19379 \@@combinedblfloats
19380 \@@setmarks
19381 \@@outputpage
19382 \begin@group
19383     \@@dblfloatplacement
19384     \@@startdblcolumn
19385     \@@whilesw\if@fcolmade \fi
19386     {\@@outputpage
19387         \@@startdblcolumn}%
19388 \end@group
19389 \global\jua@sk=0\global\jua@sar={}%
19390 \global\cor@height\z@\global\c@advip@sep\z@
19391 \fi
19392 \fi
19393 }
19394
19395
19396 \def\@strip[#1/#2]{\global\@tempdima=#1\global\@tempdimb=#2%
19397 \global \setbox\@viper\vbox\bgroup\if@RTLmain\moveleft\dimexpr(\columnwidth+\columnsep)\fi
19398     \hsize\textwidth
19399     \@@parboxrestore
19400     \col@number \@ne
19401     \vrule height\topskip width0pt depth0pt
19402 }
19403
19404 \def\endstrip{%
19405     \egroup\egroup
19406     \if@firstcolumn
19407         \ifdim\pagetotal>\z@
19408             \vskip\stripsep
19409             \global\ht@strip\pagegoal
19410             \global\advance\ht@strip by-\pagetotal
19411             \global\advance\ht@strip by-\stripsep
19412             \global\advance\ht@strip by-\ht\@viper
19413             \global\advance\ht@strip by-\stripsep
19414             \global\jua@ht=\ht\@viper
19415         \else
19416             \global\ht@strip\z@
19417         \fi

```



```

19418             \ifdim\ht@strip>\z@
19419                 \unvbox\@viper
19420                 \vskip\stripsep
19421                 \add@strip{\the\pagetotal}{\the\jua@ht}{\the\@tempdima}{\the\@tempdimb}%
19422                 \global\advance\jua@sk by1
19423             \else
19424                 \@latex@error{Strip needs more place!}\@ehc
19425                 \if@vihproof
19426                     \framebox[\columnwidth]{??? Strip ???}%
19427                 \fi
19428             \fi
19429         \else
19430             \@latex@error{Strip is used only on left column!}\@ehc
19431             \if@vihproof
19432                 \framebox[\columnwidth]{??? Strip ???}%
19433             \fi
19434         \fi
19435 }

```

## 117 File minitoc-xetex-bidi.def

```

19436 \ProvidesFile{minitoc-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for minitoc package f
19437 \def\@undottedtocline#1#2#3#4#5{%
19438     \ifnum #1>\c@tocdepth\relax \else
19439         \vskip \z@ plus.2\p@
19440         {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrmarg
19441         \parindent #2\relax\@afterindenttrue
19442         \interlinepenalty\@M
19443         \leavevmode
19444         \@tempdima #3\relax \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \hbox{}%
19445         \hskip -\if@RTL\righskip\else\leftskip\fi
19446         #4\nobreak\hfill \nobreak
19447         \null\par}%
19448     \fi}
19449 \def\@Undottedtocline#1#2#3#4#5{%
19450     \ifnum #1>\c@tocdepth\relax \else
19451         \vskip \z@ \@plus.2\p@
19452         {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrma
19453         \parindent #2\relax\@afterindenttrue
19454         \interlinepenalty\@M
19455         \leavevmode
19456         \@tempdima #3\relax
19457         \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
19458         {\coffefont #4}\nobreak \nobreak\null
19459         \par}%
19460     \fi}
19461 \def\@Undottedtoclinep#1#2#3#4#5{%
19462     \ifnum #1>\c@tocdepth\relax \else
19463         \vskip \z@ \@plus.2\p@
19464         {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@tocrma
19465         \parindent #2\relax\@afterindenttrue
19466         \interlinepenalty\@M
19467         \leavevmode
19468         \@tempdima #3\relax

```



```

19469 \advance\if@RTL\rightright\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\rightright
19470 {#4}\nobreak \hfill \nobreak\null
19471 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
19472 \par}%
19473 \fi}

```

## 118 File multicol-xetex-bidi.def

```

19474 \ProvidesFile{multicol-xetex-bidi.def}[2022/07/10 v1.4 bidi adaptations for multicol package]
19475 \def\page@sofar{%
19476 \process@cols\mult@rightbox
19477 {\ifvoid\count@
19478 \setbox\count@\hbox to\hsize{}}%
19479 \else
19480 \wd\count@\hsize
19481 \fi}%
19482 \count@\col@number \advance\count@\m@ne
19483 \mult@info\z@
19484 {Column spec: \the\full@width\space = indent
19485 + columns + sep =\MessageBreak
19486 \the\multicol@leftmargin\space
19487 + \the\col@number\space
19488 x \the\hsize\space
19489 + \the\count@\space
19490 x \the\columnsep
19491 }%
19492 \ifvmode\else\errmessage{Multicol Error}\fi
19493 \nointerlineskip
19494 \setbox\z@\hbox{\global\dimen\tw@\dp\z@
19495 \moveright\multicol@leftmargin
19496 \hbox to\full@width{%
19497 \bidi@multicol@align@columns
19498 \rlap{\phantom p}}%
19499 }%
19500 \prevdepth\z@
19501 \kern-\dimen\tw@
19502 \ifdim\dimen\tw@ > \mc@gridwarn
19503 \PackageWarning{multicol}%
19504 {Very deep columns!\MessageBreak
19505 Grid alignment might be broken}%
19506 \fi
19507 }
19508 \def\LTR@column@boxes{%
19509 \process@cols\mult@firstbox{%
19510 \ifdim\dp\count@>\dimen\tw@
19511 \global\dimen\tw@\dp\count@ \fi
19512 \mc@col@status@write
19513 \box\count@
19514 \hss{\columnseprulecolor\vrule
19515 \@width\columnseprule}\hss}%
19516 \ifdim\dp\mult@rightbox>\dimen\tw@
19517 \global\dimen\tw@\dp\mult@rightbox \fi
19518 \mc@lastcol@status@write
19519 \box\mult@rightbox

```



```

19520 }
19521
19522 \def\RTL@column@boxes{%
19523     \process@cols\mult@firstbox{%
19524         \hskip\hsize
19525         \hss{\columnseprulecolor\vrule
19526             \@width\columnseprule}\hss
19527     }%
19528     \hskip\hsize
19529     \process@cols\mult@firstbox{%
19530         \ifdim\dp\count@>\dimen\tw@
19531             \global\dimen\tw@\dp\count@ \fi
19532         \hskip-\hsize
19533         \mc@col@status@write
19534         \box\count@
19535         \hskip-\hsize
19536         \hskip-\columnsep
19537     }%
19538     \ifdim\dp\mult@rightbox>\dimen\tw@
19539         \global\dimen\tw@\dp\mult@rightbox \fi
19540     \hskip-\hsize
19541     \mc@lastcol@status@write
19542     \box\mult@rightbox
19543     \hskip-\hsize
19544     \hskip\full@width
19545 }
19546
19547 \newcommand\RTLmulticolcolumns
19548     {\let\bidimulticol@align@columns
19549         \RTL@column@boxes}
19550 \newcommand\LTRmulticolcolumns
19551     {\let\bidimulticol@align@columns
19552         \LTR@column@boxes}
19553 \newcommand\bidimulticol@align@columns
19554     {\if@RTLmain\RTL@column@boxes\else\LTR@column@boxes\fi}
19555 \bidimulticol@AtEndPreamble{%
19556     \if@bidimulticol@csdef{footinsv1}{%
19557         \def\footnoterule{\kern-3\p@
19558             \hrule \@width \textwidth \kern 2.6\p@}%
19559     }{}%
19560 }
19561 \def\multicols#1{\col@number#1\relax
19562     \ifnum\col@number<\tw@
19563         \PackageWarning{multicol}%
19564             {Using '\number\col@number'
19565              columns doesn't seem a good idea.^~J
19566              I therefore use two columns instead}%
19567         \col@number\tw@ \fi
19568     \ifnum\col@number>20
19569         \PackageError{multicol}%
19570             {Too many columns}%
19571         {Current implementation doesn't
19572          support more than 20 columns.%
19573         \MessageBreak

```



```

19574      I therefore use 20 columns instead}%
19575      \col@number20 \fi
19576      \ifx\@footnotetext\mult@footnotetext
19577      \else
19578        \let\orig@footnotetext\@footnotetext
19579        \let\@footnotetext\mult@footnotetext
19580      \fi
19581      \ifx\@LTRfootnotetext\mult@LTRfootnotetext
19582      \else
19583        \let\orig@LTRfootnotetext\@LTRfootnotetext
19584        \let\@LTRfootnotetext\mult@LTRfootnotetext
19585      \fi
19586      \ifx\@RTLfootnotetext\mult@RTLfootnotetext
19587      \else
19588        \let\orig@RTLfootnotetext\@RTLfootnotetext
19589        \let\@RTLfootnotetext\mult@RTLfootnotetext
19590      \fi
19591      \@ifnextchar[\mult@cols{\mult@cols[]}]
19592      \long\def\mult@footnotetext#1{\begingroup
19593        \hsize\textwidth
19594        \columnwidth\textwidth
19595        \orig@footnotetext{#1}\endgroup}
19596      \long\def\mult@LTRfootnotetext#1{\begingroup
19597        \hsize\textwidth
19598        \columnwidth\textwidth
19599        \orig@LTRfootnotetext{#1}\endgroup}
19600      \long\def\mult@RTLfootnotetext#1{\begingroup
19601        \hsize\textwidth
19602        \columnwidth\textwidth
19603        \orig@RTLfootnotetext{#1}\endgroup}
19604      \def\right@footnoterule{%
19605        \kern-3\p@
19606        \hbox to \textwidth{\hskip \dimexpr\textwidth-.4\columnwidth\relax \hrulefill }
19607        \kern2.6\p@}
19608      \def\textwidth@footnoterule{\kern-3\p@
19609        \hrule \@width \textwidth \kern 2.6\p@}
19610      \def\bidileave@mult@copyins{%
19611        \advance\dimen@-\skip\@bidi@copyins@
19612        \advance\dimen@-\ht\@bidi@copyins@
19613      }
19614
19615      \bidi@AtEndPreamble{%
19616        \if@bidi@csundef{footinsv@1}{%
19617          \bidi@patchcmd{\multi@column@out}{%
19618            \ifvbox \@kludgeins
19619          }{%
19620            \ifvoid\@bidi@copyins@ \else
19621              \bidileave@mult@copyins
19622            \fi
19623            \ifvbox \@kludgeins
19624          }{}{}%
19625        }{}%
19626      }
19627

```



## 119 File multienum-xetex-bidi.def

```

19629 \ProvidesFile{multienum-xetex-bidi.def}[2011/04/16 v0.1 bidi adaptations for multienum packa
19630 \renewcommand{\itemx}[1]{\parbox[t]{%
19631 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19632 \parbox[t]{\remainx}{\bidi@raggedright #1}\par}%\smallskip
19633 \renewcommand{\itemxx}[2]{\parbox[t]{%
19634 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19635 \parbox[t]{.5\remainxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
19636 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19637 \parbox[t]{0.5\remainxx}{\bidi@raggedright #2}\smallskip}
19638 \renewcommand{\itemxxx}[3]{\parbox[t]{%
19639 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19640 \parbox[t]{.3333\remainxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
19641 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19642 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\hfill\parbox[t]{%
19643 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep%
19644 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #3}\par}%\smallskip
19645 \renewcommand{\itemxxxx}[4]{\parbox[t]{%
19646 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19647 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill\parbox[t]{%
19648 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19649 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19650 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19651 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\hfill%
19652 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19653 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #4}\smallskip}
19654 \renewcommand{\itemxxxxx}[5]{\parbox[t]{%
19655 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19656 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #1}\hfill%
19657 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19658 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #2}\hfill%
19659 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19660 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #3}\hfill%
19661 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19662 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #4}\hfill%
19663 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19664 \parbox[t]{0.2\remainxxxxx}{\bidi@raggedright #5}\smallskip}
19665 \renewcommand{\itemxox}[2]{\parbox[t]{%
19666 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19667 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
19668 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19669 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #2}\smallskip}
19670 \renewcommand{\itemxox}[2]{\parbox[t]{%
19671 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19672 \parbox[t]{0.3333\remainxxx}{\bidi@raggedright #1}\hfill%
19673 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19674 \parbox[t]{\remainxox}{\bidi@raggedright #2}\smallskip}
19675 \renewcommand{\itemxox}[3]{\parbox[t]{%
19676 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19677 \parbox[t]{\remainxox}{\bidi@raggedright #1}\hfill%
19678 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep

```





```

19679 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19680 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19681 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
19682 \renewcommand{\itemxxox}[3]{\parbox[t]{%
19683 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19684 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
19685 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19686 \parbox[t]{\remainxox}{\bidi@raggedright #2}\hfill%
19687 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19688 \parbox[t]{0.25\remainxxxx}{\bidi@raggedright #3}\smallskip}
19689 \renewcommand{\itemxxxo}[3]{\parbox[t]{%
19690 {\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19691 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #1}\hfill%
19692 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19693 \parbox[t]{.25\remainxxxx}{\bidi@raggedright #2}\hfill%
19694 \parbox[t]{\labelwidth}{\hfill{\labelname}}\hskip\labelsep
19695 \parbox[t]{\remainxox}{\bidi@raggedright #3}\smallskip}

```

## 120 File natbib-xetex-bidi.def

```

19696 \ProvidesFile{natbib-xetex-bidi.def}[2017/06/09 v0.2 bidi adaptations for natbib package for
19697 \renewenvironment{thebibliography}[1]{%
19698 \bibsection
19699 \parindent\z@
19700 \bibpreamble
19701 \bibfont
19702 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
19703 \bidi@thebibliography@font@hook%
19704 \list{\@biblabel{\the\c@NAT@ctr}}{\@bibsetup{#1}\global\c@NAT@ctr\z@}%
19705 \ifNAT@openbib
19706 \renewcommand\newblock{\par}%
19707 \else
19708 \renewcommand\newblock{\hskip .11em \@plus.33em \@minus.07em}%
19709 \fi
19710 \sloppy\clubpenalty4000\widowpenalty4000
19711 \sfcode\.\@m
19712 \let\NAT@bibitem@first@sw\@firstoftwo
19713 \let\citeN\cite \let\shortcite\cite
19714 \let\citeasnoun\cite
19715 }{%
19716 \bibitem@fin
19717 \bibpostamble
19718 \def\@noitemerr{%
19719 \PackageWarning{natbib}{Empty `thebibliography' environment}%
19720 }%
19721 \endlist
19722 \bibcleanup
19723 }%

```

## 121 File newfloat-xetex-bidi.def

```

19724 \ProvidesFile{newfloat-xetex-bidi.def}[2013/05/22 v0.1 bidi adaptations for newfloat package
19725 \renewcommand*\newfloat@setwithin[2]{%
19726 \ifcsize c@chapter\endcsname

```



```

19727 \@removefromreset{#1}{chapter}%
19728 \fi
19729 \@removefromreset{#1}{section}%
19730 \edef\@tempa{#2}%
19731 \ifx\@tempa\@empty
19732 \def\@tempa{none}%
19733 \fi
19734 \def\@tempb{none}%
19735 \ifx\@tempa\@tempb
19736 \ifcsname c@chapter\endcsname
19737 \chapterlistsgap@off{#1}%
19738 \fi
19739 \newfloat@@setwithin{#1}{\}{\}%
19740 \else
19741 \def\@tempb{chapter}%
19742 \ifx\@tempa\@tempb
19743 \@addtoreset{#1}{chapter}%
19744 \@chapterlistsgap@on{#1}%
19745 \newfloat@@setwithin{#1}{\ifnum\c@chapter>\z@ \thechapter\@SepMark\fi}{\theHchapter\@S
19746 \else
19747 \def\@tempb{section}%
19748 \ifx\@tempa\@tempb
19749 \@addtoreset{#1}{section}%
19750 \ifcsname c@chapter\endcsname
19751 \@addtoreset{#1}{chapter}%
19752 \@chapterlistsgap@on{#1}%
19753 \newfloat@@setwithin{#1}{\thesection\@SepMark}{\theHsection\@SepMark}%
19754 \else
19755 \newfloat@@setwithin{#1}{\ifnum\c@section>\z@ \thesection\@SepMark\fi}{\theHsection
19756 \fi
19757 \else
19758 \newfloat@Error{Invalid value `#2' for option `within'}%
19759 \fi
19760 \fi
19761 \fi}

```

## 122 File nicematrix-xetex-bidi.def

```

19762 \ProvidesFile{nicematrix-xetex-bidi.def}[2024/12/15 v0.3 bidi adaptations for nicematrix pac
19763 \ExplSyntaxOn
19764 \bidi@patchcmd{\__nicematrix_array:n}{\@tabarray}{\%
19765 \bool_if:NF \l__nicematrix_tabular_bool \@RTLtabfalse
19766 \@tabarray
19767 }{\}{}
19768 \ExplSyntaxOff
19769

```

## 123 File nththeorem-xetex-bidi.def

```

19770 \ProvidesFile{nththeorem-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for nththeorem package
19771 \gdef\@thm#1#2#3{%
19772 \if@thmmarks
19773 \stepcounter{end\InTheoType ctr}%
19774 \fi

```



```

19775 \renewcommand{\InTheoType}{#1}%
19776 \if@thmmarks
19777     \stepcounter{curr#1ctr}%
19778     \setcounter{end#1ctr}{0}%
19779 \fi
19780 \refstepcounter{#2}%
19781 \theorem@prework
19782 \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
19783 \ifvmode \advance\thm@topsepadd\partopsep\fi
19784 \trivlist
19785 \@topsep \theorempreskipamount
19786 \@topsepadd \thm@topsepadd % used by \@endparenv
19787 \advance\linewidth -\theorem@indent
19788 \advance\@totalleftmargin \theorem@indent
19789 \if@RTL\parshape \@ne Opt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
19790 \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

## 124 File ntheorem-hyper-xetex-bidi.def

```

19791 \ProvidesFile{ntheorem-hyper-xetex-bidi.def}[2012/05/01 v0.1 bidi adaptations for ntheorem-h
19792 \gdef\@thm#1#2#3{%
19793     \if@thmmarks
19794         \stepcounter{end\InTheoType ctr}%
19795     \fi
19796     \renewcommand{\InTheoType}{#1}%
19797     \if@thmmarks
19798         \stepcounter{curr#1ctr}%
19799         \setcounter{end#1ctr}{0}%
19800     \fi
19801     \refstepcounter{#2}%
19802     \thm@topsepadd \theorempostskipamount % cf. latex.ltx: \@trivlist
19803     \ifvmode \advance\thm@topsepadd\partopsep\fi
19804     \trivlist
19805     \@topsep \theorempreskipamount
19806     \@topsepadd \thm@topsepadd % used by \@endparenv
19807     \advance\linewidth -\theorem@indent
19808     \advance\@totalleftmargin \theorem@indent
19809     \if@RTL\parshape \@ne Opt \linewidth\else \parshape \@ne \@totalleftmargin \linewidth\fi
19810     \@ifnextchar[{\@ythm{#1}{#2}{#3}}{\@xthm{#1}{#2}{#3}}

```

## 125 File overpic-xetex-bidi.def

```

19811 \ProvidesFile{overpic-xetex-bidi.def}[2015/12/07 v0.1 bidi adaptations for overpic package f
19812 \renewenvironment{overpic}[2] []{%
19813     \sbox{\z@}{\includegraphics[#1]{#2}}%
19814     \settodepth{\@tempcnta}{\usebox{\z@}}%
19815     \settoheight{\@tempcntb}{\usebox{\z@}}%
19816     \advance\@tempcntb\@tempcnta%
19817     \settowidth{\@tempcnta}{\usebox{\z@}}%
19818     \setlength{\@tempdima}{\unitlength}%
19819     \count@=\z@\Gin@gridfalse\setkeys{Gin}{#1}%
19820 %
19821 \OVP@calc%
19822 %

```



```

19823 \begin{picture}(\@tempcnta,\@tempcntb)%
19824 \if@RTL\else\put(0,0){\makebox(0,0)[bl]{\usebox{z@}}}%
19825 \ifGin@grid%
19826 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
19827 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
19828 \fi\fi%
19829 % reset the graphics parameter
19830 \let\Gin@outer@scalex\relax
19831 \let\Gin@outer@scaley\relax
19832 \let\Gin@angle\relax
19833 \let\Gin@ewidth\Gin@exclamation
19834 \let\Gin@eheight\Gin@ewidth
19835 \def\Gin@scalex{1}
19836 \let\Gin@scaley\Gin@exclamation
19837 }{%
19838 \if@RTL\ifGin@grid%
19839 \put(0,0){\normalfont\fontsize\@viipt\@viipt\selectfont%
19840 \grid(\@tempcnta,\@tempcntb)(\count@,\count@)[0,0]}%
19841 \fi%
19842 \put(0,0){\makebox(0,0)[bl]{\usebox{z@}}}\fi%
19843 \end{picture}%
19844 }%

```

## 126 File pdfbase-xetex-bidi.def

```

19845 \ProvidesFile{pdfbase-xetex-bidi.def}[2022/02/18 v0.4 bidi adaptations for pdfbase package f
19846 \ExplSyntaxOn
19847 \cs_set_eq:NN\pbs_outputpage_orig:\@outputpage
19848 \cs_set_nopar:Npn\@outputpage{
19849 \int_gincr:N\g_pbs_page_int
19850 \box_if_vertical:cTF{\@outputbox}{
19851 \bool_set_true:N\l_pbs_is_vertical_bool
19852 }{
19853 \bool_set_false:N\l_pbs_is_vertical_bool
19854 }
19855 \hbox_set:Nn\@outputbox{
19856 %begin of page
19857 \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_bop_seq{##1}}
19858 \box_use_drop:N\@outputbox
19859 %end of page
19860 \hbox_overlap_right:n{\seq_map_inline:Nn\g_pbs_eop_seq{##1}}
19861 }
19862 \bool_if:NT\l_pbs_is_vertical_bool{
19863 \vbox_set:Nn\@outputbox{\box_use_drop:N\@outputbox}
19864 }
19865 \pbs_outputpage_orig:
19866 }
19867 \ExplSyntaxOff

```

## 127 File pdfscape-xetex-bidi.def

```

19868 \ProvidesFile{pdfscape-xetex-bidi.def}[2022/02/18 v0.1 bidi adaptations for pdfscape packa
19869 \bidi@patchcmd{\landscape}{\PLS@Rotate{90}}{%
19870 \if@RTL

```



```

19871 \PLS@Rotate{-90}%
19872 \else
19873 \PLS@Rotate{90}%
19874 \fi
19875 }{}{}

```

## 128 File pgfcorescopes.code-xetex-bidi.def

```

19876 \ProvidesFile{pgfcorescopes.code-xetex-bidi.def}[2015/11/14 v0.1 bidi adaptations for pgf pa
19877 \def\pgfpicture{%
19878 \begingroup%
19879 \ifmmode\else\@RTLfalse\beginL\fi%
19880 \pgfpicturetrue%
19881 \global\advance\pgf@picture@serial@count by1\relax%
19882 \edef\pgfpictureid{pgfid\the\pgf@picture@serial@count}%
19883 \let\pgf@nodecallback=\pgfutil@gobble%
19884 \pgf@picmaxx=-16000pt\relax%
19885 \pgf@picminx=16000pt\relax%
19886 \pgf@picmaxy=-16000pt\relax%
19887 \pgf@picminy=16000pt\relax%
19888 \pgf@relevantforpicturesizetrue%
19889 \pgf@resetpathsizes%
19890 \pgfutil@ifnextchar\bgroup\pgf@oldpicture\pgf@picture}%
19891 \def\endpgfpicture{%
19892 \ifpgfrememberpicturepositiononpage%
19893 \hbox to0pt{\pgfsys@markposition{\pgfpictureid}}%
19894 \fi%
19895 % ok, now let's position the box
19896 \ifdim\pgf@picmaxx=-16000pt\relax%
19897 % empty picture. make size 0.
19898 \global\pgf@picmaxx=0pt\relax%
19899 \global\pgf@picminx=0pt\relax%
19900 \global\pgf@picmaxy=0pt\relax%
19901 \global\pgf@picminy=0pt\relax%
19902 \fi%
19903 % Shift baseline outside:
19904 \pgf@relevantforpicturesizefalse%
19905 \pgf@process{\pgf@baseline}%
19906 \xdef\pgf@shift@baseline{\the\pgf@y}%
19907 %
19908 \pgf@process{\pgf@trimleft}%
19909 \global\advance\pgf@x by-\pgf@picminx
19910 % prepare \hskip\pgf@trimleft@final.
19911 % note that \pgf@trimleft@final is also queried
19912 % by the pgf image externalization.
19913 \xdef\pgf@trimleft@final{-\the\pgf@x}%
19914 %
19915 \pgf@process{\pgf@trimright}%
19916 \global\advance\pgf@x by-\pgf@picmaxx
19917 % prepare \hskip\pgf@trimright@final.
19918 % note that \pgf@trimright@final is also queried
19919 % by the pgf image externalization.
19920 \xdef\pgf@trimright@final{\the\pgf@x}%
19921 %

```



```

19922         \pgf@remember@layerlist@globally
19923         \endgroup%
19924         \hss%
19925         \egroup%
19926     \pgf@restore@layerlist@from@global
19927     \pgf@insertlayers%
19928     \endgroup%
19929     \pgfsys@discardpath%
19930     \endgroup%
19931     \pgfsys@endscope%
19932     \pgfsys@endpicture%
19933     \endgroup%
19934     \hss
19935 \egroup%
19936 \pgfsys@typesetpicturebox\pgfpic%
19937 \ifmmode\else\endL\fi%
19938 \endgroup%
19939 }

```

## 129 File pgfsys-xetex-bidi.def

```

19940 \ProvidesFile{pgfsys-xetex-bidi.def}[2025/01/05 v0.1 bidi adaptations for pgfsys package for
19941 \def\pgfsys@shadingoutsidepgfpicture#1{%
19942     \beginL#1\endL%
19943 }
19944
19945

```

## 130 File picinpar-xetex-bidi.def

```

19946 \ProvidesFile{picinpar-xetex-bidi.def}[2013/04/08 v0.2 bidi adaptations for picinpar package
19947 \long\def\@makewincaption#1#2{%
19948     \setbox\@tempboxa\hbox{\footnotesize{\bf #1:\enspace}{#2}}%
19949     \ifdim\wd\@tempboxa>\picwd
19950         {\footnotesize{\bf #1:\enspace}{#2\par}}
19951     \else
19952         \hbox to\picwd{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}
19953     \fi}
19954 \def\endwindow{%
19955     \global\tcd=\tcdsav
19956     \egroup\vskip\parskip\parshape=0 % reset parshape; end \box\rawtext
19957     \vbadness=10000
19958     \splittopskip=0pt
19959 %
19960 % Typeset the lines above the window
19961 %
19962 \ifnum\tcd>0\setbox\holder=\vsplit\rawtext to \tcd\baselineskip
19963 \tcn=\tcd
19964 \loop\advance\tcn -1
19965 \setbox\fslice=\vsplit\holder to\baselineskip
19966 \prune\fslice\linewidth
19967 \topheight=0pt
19968 \ifnum\dp\fslice>\dp\wstrutbox
19969     \advance\topheight-\dp\fslice

```



```

19970      \advance\topheight\dp\wstrutbox
19971      \advance\topheight\ilg\fi
19972 \hbox to\linewidth{\box\fslice}
19973 \vskip-\topheight
19974 \ifdim\ht\holder>0pt\repeat
19975 \fi
19976 %
19977 % Now we build the boxes beside the window
19978 %
19979 \global\topheight=\tcl\baselineskip
19980 \ifnum\cumpartcl>0\global\tcl=\cumtcl
19981      \global\topheight=\vpic
19982 \fi
19983 \ifnum\bl>0 \ifnum\br>0 \multiply\topheight by 2\fi\fi
19984 \ifnum\bl>0\setbox\holder=\vsplit\rawtext to\topheight
19985 \else\ifnum\br>0\setbox\holder=\vsplit\rawtext to\topheight\fi\fi
19986 \tcn=\tcl \na=0 \nb=0
19987 \ifnum\bl>0 \ifnum\br>0 \multiply\tcn by 2\fi\fi
19988 \ifnum\bl>0\na=\tcn\ifnum\br>0\divide\na by 2\fi\fi
19989 \ifnum\br>0\nb=\tcn\ifnum\bl>0\divide\nb by 2\fi\fi
19990 \ifnum\na=0\ifnum\nb=0
19991      \setbox\waslice=\vbox to\vpic{\vss}
19992      \setbox\wbslice=\vbox to\vpic{\vss}
19993      \bl=1\br=1
19994      \vskip\ilg
19995 \fi\fi
19996 %
19997 % both sides
19998 %
19999 \ifnum\na>0 \ifnum\nb>0
20000 \loop\advance\nb -1
20001 \advance\na -1
20002 \if@RTL%
20003 \setbox\bslice=\vsplit\holder to\baselineskip
20004 \prune\bslice\rtside
20005 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20006 to\rtside{\box\bslice\hfil}}
20007 \setbox\aslice=\vsplit\holder to\baselineskip
20008 \prune\aslice\lftside
20009 \setbox\waslice=\vbox{\unvbox\waslice\hbox
20010 to\lftside{\box\aslice\hfil}}
20011 \else%
20012 \setbox\aslice=\vsplit\holder to\baselineskip
20013 \prune\aslice\lftside
20014 \setbox\waslice=\vbox{\unvbox\waslice\hbox
20015 to\lftside{\box\aslice\hfil}}
20016 \setbox\bslice=\vsplit\holder to\baselineskip
20017 \prune\bslice\rtside
20018 \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20019 to\rtside{\box\bslice\hfil}}
20020 \fi%
20021 \ifnum\nb>0\repeat
20022 \fi\fi
20023 %

```



```

20024 % only text on the left side
20025 %
20026 \ifnum\na>0
20027   \loop\advance\na -1
20028   \setbox\aslice=\vsplit\holder to\baselineskip
20029   \prune\aslice\lftside
20030   \setbox\waslice=\vbox{\unvbox\waslice\hbox
20031   to\lftside{\box\aslice\hfil}}
20032   \ifdim\ht\holder>0pt\repeat
20033 \fi
20034 %
20035 % only text on the right side
20036 %
20037 \ifnum\nb>0
20038   \loop\advance\nb -1
20039   \setbox\bslice=\vsplit\holder to\baselineskip
20040   \prune\bslice\rtside
20041   \setbox\wbslice=\vbox{\unvbox\wbslice\hbox
20042   to\rtside{\box\bslice\hfil}}
20043   \ifdim\ht\holder>0pt\repeat
20044 \fi
20045 %
20046 % fixing the dimensions of the window part
20047 %
20048 \ifnum\bl=0\topheight=\ht\wbslice
20049 \else\ifnum\br=0\topheight=\ht\waslice
20050   \else\ifdim\ht\waslice>\ht\wbslice\topheight=\ht\waslice
20051   \else\topheight=\ht\wbslice\fi\fi\fi
20052 %
20053 % ship out the window material to the main vertical list
20054 %
20055 \ifnum\bl>0 \ifnum\br>0 \ifdim\ht\wbslice<\topheight
20056 \setbox\wbslice=\vbox to\topheight{\box\wbslice\vfill}
20057 \fi\fi\fi
20058 \setbox>windowbox=\vbox{\hbox to\linewidth{%
20059 \ifnum\bl>0\box\waslice\hfil\fi%
20060 \vbox to\topheight{\hrule width\picwd height0pt depth0pt\vskip0pt%
20061 \vfill\unvbox\picbox%
20062 \ifnum\picwd>0\vfill\fi%
20063 \vss}\ifnum\br>0\hfill\vbox{\box\wbslice}\fi}}%
20064 \unvbox>windowbox%
20065 \loop
20066 \setbox\bslice=\vsplit\rawtext to\baselineskip
20067 \prune\bslice\linewidth
20068 \setbox\wbslice=\vbox{\hbox to\linewidth{\box\bslice\hfil}}
20069 \unvbox\wbslice
20070 \ifdim\ht\rawtext>0pt
20071 \repeat
20072 }% FINITO

```

## 131 File plain-xetex-bidi.def

```

20073 \def\TeXXeTOn{\TeXXeTstate=1 }
20074 \def\TeXXeTOff{\TeXXeTstate=0 }

```





```

20075 \TeXeTOn
20076 \def\usebox#1{\leavevmode\copy #1\relax}
20077 \def\bidirTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@}
20078 \let\bidio@everypar=\everypar
20079 \newtoks\bidin@everypar
20080 \bidin@everypar\expandafter{\the\bidio@everypar}
20081 \bidio@everypar{\bidirTL@everypar\the\bidin@everypar}
20082 \let\everypar=\bidin@everypar
20083 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
20084 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
20085 \protected\def\hboxR{\hbox\bgroup
20086 \everyhbox{%
20087 \aftergroup\egroup
20088 \everyhbox{}}%
20089 \beginR
20090 \@hboxRconstructtrue
20091 \bgroup
20092 \aftergroup\endR
20093 \aftergroup\egroup
20094 }\hbox}
20095 \protected\def\hboxL{\hbox\bgroup
20096 \everyhbox{%
20097 \aftergroup\egroup
20098 \everyhbox{}}%
20099 \beginL
20100 \@hboxRconstructfalse
20101 \bgroup
20102 \aftergroup\endL
20103 \aftergroup\egroup
20104 }\hbox}
20105 \protected\def\vboxR{\vbox\bgroup
20106 \everyvbox{%
20107 \aftergroup\egroup
20108 \everyvbox{}}%
20109 \@RTLtrue
20110 \bgroup
20111 \aftergroup\egroup
20112 }\vbox}
20113 \protected\def\vboxL{\vbox\bgroup
20114 \everyvbox{%
20115 \aftergroup\egroup
20116 \everyvbox{}}%
20117 \@RTLfalse
20118 \bgroup
20119 \aftergroup\egroup
20120 }\vbox}
20121 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\hsize\linewidth\parshape\z@}
20122 \def\endLTR{\par}
20123 \def\RTL{\par\@RTLtrue\@RTL@footnotetrue\hsize\linewidth\parshape\z@}
20124 \def\endRTL{\par}
20125 \def\setRTL{\@RTLtrue\@RTL@footnotetrue}
20126 \def\setLTR{\@RTLfalse\@RTL@footnotefalse}
20127 \let\unsetRTL=\setLTR
20128 \let\unsetLTR=\setRTL

```



```

20129 \let\LR=\LRE
20130 \let\RL=\RLE
20131 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
20132 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
20133 \let\@ensure@RL=\@ensure@RTL
20134 \let\@ensure@LR=\@ensure@LTR
20135 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
20136 \let\@ensure@maindir=\@ensure@dir
20137 \def\@@RTL{RTL}
20138 \def\@@LTR{LTR}
20139 \def\save@dir{\if@RTL\gdef\saved@@dir{RTL}\else\gdef\saved@@dir{LTR}\fi}
20140 \def\reset@dir{\ifx\saved@@dir\@@RTL\setRTL\else\ifx\saved@@dir\@@LTR\setLTR\else\relax\fi}
20141 \let\@@TeX\TeX
20142 \def\TeX{\@ensure@LTR{\@@TeX}}
20143 \def\pagecontents{\ifvoid\topins\else\unvbox\topins\fi}
20144 \dimen@=\dp\@cclv \unvbox\@cclv % open up \box255
20145 \ifvoid\footins\else % footnote info is present
20146 \vskip\skip\footins
20147 \footnoterule
20148 \unvbox\footins\fi
20149 \ifrggedbottom \kern-\dimen@ \vfil \fi
20150 \ifvoid\@bidi@copyins@
20151 \else
20152 \vskip\skip\@bidi@copyins@
20153 \unvbox\@bidi@copyins@
20154 \fi
20155 }
20156 \long\def\@bidi@reflect@box#1{%
20157 \leavevmode
20158 \setbox\z@\hbox{#1}%
20159 \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
20160 \hbox to \wd\z@{\kern\wd\z@\box\tw@\hss}%
20161 }
20162 \def\XeTeX{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
20163 \hbox{\kern-.125em\@bidi@reflect@box{E}}\kern-.1667em \TeX}}$}}
20164 \let\setRL=\setRTL
20165 \let\setLR=\setLTR
20166 \let\unsetRL=\setLTR
20167 \let\@bidi@saved@eqno=\eqno
20168 \let\@bidi@saved@leqno=\leqno
20169 \def\eqno{\ifnum\predisplaydirection<\z@ \@bidi@saved@leqno \else \@bidi@saved@eqno \fi}
20170 \def\leqno{\ifnum\predisplaydirection<\z@ \@bidi@saved@eqno \else \@bidi@saved@leqno \fi}
20171 \def\centerline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
20172 \def\leftline#1{\line{\if@RTL\beginR\fi#1\if@RTL\endR\fi\hss}}
20173 \def\rightline#1{\line{\hss\if@RTL\beginR\fi#1\if@RTL\endR\fi}}

```

## 132 File pstricks-xetex-bidi.def

```

20174 \ProvidesFile{pstricks-xetex-bidi.def}[2025/01/08 v0.7 bidi adaptations for pstricks package]
20175 \bidi@patchcmd\pspicture\beginRgroup{%
20176 \beginRgroup
20177 \ifmmode
20178 \else
20179 \@RTLfalse

```



```

20180      \beginL
20181      \fi
20182 }{}{\bidi@warningnoline{Oops! patching `\'string\pspicture' failed}}
20183
20184 \bidi@patchcmd\endpspicture{%
20185   \endgroup
20186   \psset[pstricks]{shift=0}% reset value
20187 }{%
20188   \ifmode
20189   \else
20190     \endL
20191   \fi
20192   \endgroup
20193   \psset[pstricks]{shift=0}% reset value
20194 }{}{\bidi@warningnoline{Oops! patching `\'string\endpspicture' failed}}
20195
20196 \bidi@patchcmd\@@scalebox{%
20197   \special{x: bscale \pst@tempc \pst@tempd}%
20198   \hbox to \z@{\box\pst@hbox\hss}%
20199   \special{x: escale}%
20200 }{%
20201   \if@RTL
20202     \special{x: escale}%
20203   \else
20204     \special{x: bscale \pst@tempc \pst@tempd}%
20205   \fi
20206   \hbox to \z@{\box\pst@hbox\hss}%
20207   \if@RTL
20208     \special{x: bscale \pst@tempc \pst@tempd}%
20209   \else
20210     \special{x: escale}%
20211   \fi
20212 }{}{\bidi@warningnoline{Oops! patching `\'string\@@scalebox' failed}}
20213 \let\ps@@scalebox\@@scalebox
20214

```

### 133 File quotchap-xetex-bidi.def

```

20215 \ProvidesFile{quotchap-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for quotchap package]
20216 \renewcommand{\qauthor}[1]{%
20217   \par\smallskip
20218   {\if@RTL\raggedright\else\raggedleft\fi\upshape #1\qqquad\hbox{}\par}\bigskip}
20219 \renewcommand{\@makechapterhead}[1]{\chapterheadstartvskip%
20220   {\size@chapter{\sectfont\if@RTL\raggedright\else\raggedleft\fi
20221     {\chapnumfont
20222       \ifnum \c@secnumdepth >\m@ne%
20223       \if@mainmatter\thechapter%
20224       \fi\fi
20225       \par\nobreak}%
20226     {\if@RTL\raggedright\else\raggedleft\fi\advance\if@RTL\rightmargin\else\leftmargin\fi
20227     \nobreak\chapterheadendvskip}}}
20228 \renewcommand*{\@iprintcites}{%
20229   \vbox to\z@{\leavevmode\copy\@quotebox\vss}
20230   \global\let\@printcites\relax}

```



## 134 File ragged2e-xetex-bidi.def

```

20231 \ProvidesFile{ragged2e-xetex-bidi.def}[2018/10/17 v0.3 bidi adaptations for ragged2e package]
20232 \renewcommand{\Centering}{%
20233   \ifx\\ \@raggedtwoe@savedcr
20234     \let\\ \@centercr
20235   \fi
20236   \let\@gnewline\@raggedtwoe@gnewline
20237   \if@RTL\rightskip\else\leftskip\fi\CenteringLeftskip
20238   \@rightskip\CenteringRightskip
20239   \if@RTL\leftskip\else\rightskip\fi\@rightskip
20240   \parfillskip\CenteringParfillskip
20241   \parindent\CenteringParindent
20242   \@raggedtwoe@spaceskiptrue
20243   \@raggedtwoe@everyselectfont
20244 }
20245 \renewcommand{\RaggedLeft}{%
20246   \ifx\\ \@raggedtwoe@savedcr
20247     \let\\ \@centercr
20248   \fi
20249   \let\@gnewline\@raggedtwoe@gnewline
20250   \if@RTL\rightskip\else\leftskip\fi\RaggedLeftLeftskip
20251   \@rightskip\RaggedLeftRightskip
20252   \if@RTL\leftskip\else\rightskip\fi\@rightskip
20253   \parfillskip\RaggedLeftParfillskip
20254   \parindent\RaggedLeftParindent
20255   \@raggedtwoe@spaceskiptrue
20256   \@raggedtwoe@everyselectfont
20257 }
20258 \renewcommand{\RaggedRight}{%
20259   \ifx\\ \@raggedtwoe@savedcr
20260     \let\\ \@centercr
20261   \fi
20262   \let\@gnewline\@raggedtwoe@gnewline
20263   \if@RTL\rightskip\else\leftskip\fi\RaggedRightLeftskip
20264   \@rightskip\RaggedRightRightskip
20265   \if@RTL\leftskip\else\rightskip\fi\@rightskip
20266   \parfillskip\RaggedRightParfillskip
20267   \parindent\RaggedRightParindent
20268   \@raggedtwoe@spaceskiptrue
20269   \@raggedtwoe@everyselectfont
20270 }
20271 \renewcommand{\justifying}{%
20272   \let\\ \@raggedtwoe@savedcr
20273   \let\@gnewline\@raggedtwoe@saved@gnewline
20274   \if@RTL\rightskip\else\leftskip\fi\z@
20275   \@rightskip\z@
20276   \if@RTL\leftskip\else\rightskip\fi\@rightskip
20277   \parfillskip\JustifyingParfillskip
20278   \parindent\JustifyingParindent
20279   \@raggedtwoe@spaceskipfalse
20280   \@raggedtwoe@everyselectfont
20281 }
20282 \def\@raggedtwoe@raggedrightboxes@opt{%

```



```

20283 \renewcommand{\@arrayparboxrestore}{%
20284 \let\if@nobreak\iffalse
20285 \let\if@noskipsec\iffalse
20286 \let\par\@par
20287 \let\-\@dischyph
20288 \let'\@acci\let\`\@accii\let\=\@acciii
20289 \parskip\z@skip
20290 \everypar{}%
20291 \linewidth\hsize
20292 \@totalleftmargin\z@
20293 \if@RTL
20294 \RaggedLeft
20295 \else
20296 \RaggedRight
20297 \fi
20298 \lineskip\normallineskip
20299 \baselineskip\normalbaselineskip
20300 \sloppy}%
20301 \let\@raggedtwoe@raggedrightboxes@opt\relax
20302 }
20303 \def\@raggedtwoe@document@opt{%
20304 \AtBeginDocument{\@raggedtwoe@abdhook}%
20305 \@raggedtwoe@raggedrightboxes@opt
20306 \@raggedtwoe@footmisctrue
20307 \let\@raggedtwoe@document@opt\relax
20308 }
20309 \def\@raggedtwoe@abdhook{%
20310 \PackageInfo{ragged2e}{ABD: executing '\string\RaggedLeft' for
20311 right to left documents and '\string\RaggedRight' for left
20312 to right documents}%
20313 \if@RTL
20314 \RaggedLeft
20315 \else
20316 \RaggedRight
20317 \fi
20318 \@ifundefined{tocrmarg}{\edef\tocrmarg{\tocrmarg plus 2em}}%
20319 \let\@raggedtwoe@abdhook\relax
20320 }
20321 \@ifpackagewith{ragged2e}{raggedrightboxes}{%
20322 \@raggedtwoe@raggedrightboxes@opt
20323 }{}
20324 \@ifpackagewith{ragged2e}{document}{%
20325 \@raggedtwoe@document@opt
20326 }{}
20327 \let\origin@RaggedLeft=\RaggedLeft
20328 \let\origin@RaggedRight=\RaggedRight
20329 \def\RaggedLeft{\if@RTL\origin@RaggedRight\else\origin@RaggedLeft\fi}
20330 \def\RaggedRight{\if@RTL\origin@RaggedLeft\else\origin@RaggedRight\fi}

```

## 135 File rapport1-xetex-bidi.def

```

20331 \ProvidesFile{rapport1-xetex-bidi.def}[2017/06/09 v0.4 bidi adaptations for rapport1 class f
20332 \renewenvironment{theindex}{%
20333 \if@twocolumn

```



```

20334 \@restonecolfalse
20335 \else
20336 \@restonecoltrue
20337 \fi
20338 \columnseprule \z@
20339 \columnsep 35\p@
20340 \twocolumn[\@makeschapterhead{\indexname}]%
20341 \@mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
20342 \thispagestyle{plain}\parindent\z@
20343 \parskip\z@ \@plus .3\p@\relax
20344 \let\item\@idxitem
20345 }{%
20346 \if@restonecol\onecolumn\else\clearpage\fi}
20347 \renewcommand*\head@style{%
20348 \interlinepenalty \@M
20349 \hyphenpenalty=\@M \exhyphenpenalty=\@M
20350 \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
20351 \if@titlepage
20352 \renewenvironment{abstract}{%
20353 \titlepage
20354 \null\vfil
20355 \section*{\SectFont\abstractname}%
20356 \noindent\ignorespaces}
20357 {\par\vfil\null\endtitlepage}
20358 \else
20359 \renewenvironment{abstract}{%
20360 \if@twocolumn
20361 \section*{\abstractname}%
20362 \else
20363 \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
20364 \section*{\small\SectFont\abstractname}%
20365 \noindent\ignorespaces
20366 \fi}
20367 {\if@twocolumn\else\par\egroup\fi}
20368 \fi
20369 \renewcommand*\@regtocline[3]{%
20370 \ifnum #1>\c@tocdepth
20371 \else
20372 \vskip\z@ \@plus .2\p@
20373 {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
20374 \if@RTL\rightskip\else\leftskip\fi\unitindent
20375 \if@RTL\leftskip\else\rightskip\fi\unitindent\@plus 1fil
20376 \parfillskip\z@
20377 \@tempdima\unitindent
20378 \parindent\z@
20379 \leavevmode
20380 \hbox{}\hskip -\if@RTL\rightskip\else\leftskip\fi\relax#2\nobreak
20381 \hskip 1em \nobreak{\slshape #3}\par
20382 }%
20383 \fi}
20384 \if@oldtoc
20385 \renewcommand*\l@part[2]{%
20386 \ifnum \c@tocdepth >-2\relax
20387 \addpenalty{-\@highpenalty}%

```



```

20388 \addvspace{2.25em \@plus\p@}%
20389 \begingroup
20390 \setlength\@tempdima{3em}%
20391 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20392 \parfillskip -\@pnumwidth
20393 {\leavevmode
20394 \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
20395 \nobreak
20396 \global\@nobreaktrue
20397 \everypar{\global\@nobreakfalse\everypar{}}%
20398 \endgroup
20399 \fi}
20400 \else
20401 \renewcommand*\l@part{%
20402 \ifnum \c@tocdepth >-2\relax
20403 \addpenalty{-\@highpenalty}%
20404 \addvspace{2.25em \@plus \p@}%
20405 \@regtocline{0}%
20406 \fi}
20407 \fi
20408 \if@oldtoc
20409 \renewcommand*\l@chapter[2]{%
20410 \addpenalty{-\@highpenalty}%
20411 \vskip 1.0em \@plus\p@
20412 \setlength\@tempdima{1.5em}%
20413 \begingroup
20414 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20415 \parfillskip -\@pnumwidth
20416 \leavevmode \bfseries
20417 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
20418 \hskip -\if@RTL\rightskip\else\leftskip\fi
20419 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
20420 \penalty\@highpenalty
20421 \endgroup}
20422 \else
20423 \renewcommand*\l@chapter{\@regtocline{0}}
20424 \fi
20425 \renewcommand*\left@footnoterule{%
20426 \kern-3\p@
20427 \kern.5\baselineskip
20428 \hrule\@width\unitindent
20429 \kern.4\baselineskip
20430 }
20431 \renewcommand*\right@footnoterule{%
20432 \kern-3\p@
20433 \kern.5\baselineskip
20434 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
20435 \kern.4\baselineskip}
20436 \renewenvironment{thebibliography}[1]
20437 {\chapter*{\bibname}%
20438 \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
20439 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
20440 \bidi@thebibliography@font@hook%
20441 \list{\@biblabel{\@arabic\c@enumiv}}%

```



```

20442         {\settowidth\labelwidth{\@biblabel{#1}}%
20443         \leftmargin\labelwidth
20444         \advance\leftmargin\labelsep
20445         \@openbib@code
20446         \usecounter{enumiv}%
20447         \let\p@enumiv\@empty
20448         \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
20449     \sloppy\clubpenalty4000\widowpenalty4000%
20450     \sfcode`. \.\@m}
20451 {\def\@noitemerr
20452     {\@latex@warning{Empty `thebibliography' environment}}}%
20453     \endlist}
20454 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
20455 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
20456 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\c@subsubsection}
20457 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20458 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
20459 \renewcommand*\theequation{%
20460     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
20461 \renewcommand*\thefigure{%
20462     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@figure}
20463 \renewcommand*\thetable{%
20464     \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@table}
20465 \if@titlepage
20466 \renewcommand*\TitleFont{\rmfamily}
20467 \renewcommand*\maketitle{%
20468     \begin{titlepage}%
20469         \let\footnotesize\small
20470         \let\right@footnoterule\relax
20471         \let\left@footnoterule\relax
20472         \let\textwidth\footnoterule\relax
20473         \let \footnote \thanks
20474         \long\def\@makefnmark##1{\parindent\z@
20475             \def\labelitemi{\textendash}\@revlabeltrue
20476             \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
20477 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20478 \if@compatibility\setcounter{page}{0}\fi
20479 \null\vfil
20480 \vskip 60\p@
20481 \begin{center}%
20482     \TitleFont
20483     {\LARGE \def\\{\penalty -\@M}
20484         \if@allcaps
20485             \expandafter\uc@nothanks\@title\thanks\relax
20486         \else
20487             \@title
20488             \fi\par}%
20489     \vskip 3em%
20490     {\large
20491         \lineskip .75em \parindent\z@
20492         \begin{tabular}[t]{c}%
20493             \if@allcaps
20494                 \expandafter\uc@authornothanks\@author\and\relax
20495             \else

```





```

20496         \@author
20497     \fi
20498     \end{tabular}\par}%
20499     \vskip 1.5em%
20500     {\large
20501     \if@allcaps
20502         \uppercase\expandafter{\@date}%
20503     \else
20504         \@date
20505     \fi\par}%
20506     \end{center}\par
20507     \@thanks
20508     \vfil\null
20509 \end{titlepage}%
20510 \setcounter{footnote}{0}%
20511 \global\let\thanks\relax
20512 \global\let\maketitle\relax
20513 \global\let\@thanks\@empty
20514 \global\let\@author\@empty
20515 \global\let\@title\@empty
20516 \global\let\@date\@empty
20517 \global\let\title\relax
20518 \global\let\author\relax
20519 \global\let\date\relax
20520 \global\let\and\relax
20521 }
20522 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
20523 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
20524     \futurelet\@tempa\uc@ax}
20525 \def\uc@ax{%
20526     \ifx\@tempa\relax
20527     \else
20528         \ \andname \ \expandafter\uc@authornothanks
20529     \fi}
20530 \def\uc@tx{\ifx\@tempa\relax
20531     \else \expandafter\uc@ty \fi}
20532 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
20533 \else
20534 \renewcommand*\maketitle{\par
20535     \begingroup
20536     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20537     \def\@makefnmark{\rlap{%
20538         \@textsuperscript{\normalfont\@thefnmark}}}%
20539     \long\def\@makefntext{\@xmakefntext{%
20540         \@textsuperscript{\normalfont\@thefnmark}}}%
20541     \if@twocolumn
20542         \ifnum \col@number=\@one
20543             \@maketitle
20544         \else
20545             \twocolumn[\@maketitle]%
20546         \fi
20547     \else
20548         \newpage
20549         \global\@topnum\z@

```



```

20550     \@maketitle
20551     \fi
20552     \thispagestyle{plain}\@thanks
20553 \endgroup
20554 \setcounter{footnote}{0}%
20555 \global\let\thanks\relax
20556 \global\let\maketitle\relax
20557 \global\let\@maketitle\relax
20558 \global\let\@thanks\@empty
20559 \global\let\@author\@empty
20560 \global\let\@title\@empty
20561 \global\let\@date\@empty
20562 \global\let\title\relax
20563 \global\let\author\relax
20564 \global\let\date\relax
20565 \global\let\and\relax
20566 }
20567 \def\@maketitle{%
20568   \newpage
20569   \null
20570   \vskip 2em%
20571   \begin{center}%
20572     \let \footnote \thanks
20573     {\LARGE \TitleFont \@title \par}%
20574     \vskip 1.5em%
20575     {\large \TitleFont
20576       \lineskip .5em%
20577       \begin{tabular}[t]{c}%
20578         \@author
20579       \end{tabular}\par}%
20580     \vskip 1em%
20581     {\large \TitleFont \@date}%
20582   \end{center}%
20583   \par
20584   \vskip 1.5em}
20585 \fi

```

## 136 File rapport3-xetex-bidi.def

```

20586 \ProvidesFile{rapport3-xetex-bidi.def}[2017/06/09 v0.6 bidi adaptations for rapport3 class f
20587 \renewenvironment{theindex}{%
20588   \if@twocolumn
20589     \@restonecolfalse
20590   \else
20591     \@restonecoltrue
20592   \fi
20593   \columnseprule \z@
20594   \columnsep 35\p@
20595   \twocolumn[\@makeschapterhead{\indexname}]%
20596   \mkboth{\MakeUppercase{\indexname}}{\MakeUppercase{\indexname}}%
20597   \thispagestyle{plain}\parindent\z@
20598   \parskip\z@ \@plus .3\p@\relax
20599   \let\item\@idxitem
20600 }{%

```



```

20601 \if@restonecol\onecolumn\else\clearpage\fi}
20602 \if@titlepage
20603 \renewcommand*{\TitleFont{\rmfamily}
20604 \renewcommand*{\maketitle{%
20605 \begin{titlepage}%
20606 \let\footnotesize\small
20607 \let\right@footnoterule\relax
20608 \let\left@footnoterule\relax
20609 \let\textwidth\footnoterule\relax
20610 \let \footnote \thanks
20611 \let \LTRfootnote \LTRthanks
20612 \let \RTLfootnote \RTLthanks
20613 \long\def\@makefntext##1{\parindent\z@
20614 \def\labelitemi{\textendash}\@revlabeltrue
20615 \leavevmode\@textsuperscript{\@thefnmark}\kern1em\relax ##1}
20616 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20617 \if@compatibility\setcounter{page}{0}\fi
20618 \null\vfil
20619 \vskip 60\p@
20620 \begin{center}%
20621 \TitleFont
20622 {\LARGE \def\\{\penalty -\@M}
20623 \if@allcaps
20624 \expandafter\uc@nothanks\@title\thanks\relax
20625 \else
20626 \@title
20627 \fi\par}%
20628 \vskip 3em%
20629 {\large
20630 \lineskip .75em \parindent\z@
20631 \begin{tabular}[t]{c}%
20632 \if@allcaps
20633 \expandafter\uc@authornothanks\@author\and\relax
20634 \else
20635 \@author
20636 \fi
20637 \end{tabular}\par}%
20638 \vskip 1.5em%
20639 {\large
20640 \if@allcaps
20641 \uppercase\expandafter{\@date}%
20642 \else
20643 \@date
20644 \fi\par}%
20645 \end{center}\par
20646 \@thanks
20647 \vfil\null
20648 \end{titlepage}%
20649 \setcounter{footnote}{0}%
20650 \global\let\thanks\relax
20651 \global\let\LTRthanks\relax
20652 \global\let\RTLthanks\relax
20653 \global\let\maketitle\relax
20654 \global\let\@thanks\@empty

```



```

20655 \global\let\@author\@empty
20656 \global\let\@title\@empty
20657 \global\let\@date\@empty
20658 \global\let\title\relax
20659 \global\let\author\relax
20660 \global\let\date\relax
20661 \global\let\and\relax
20662 }
20663 \def\uc@nothanks#1\thanks{\uppercase{#1}\futurelet\@tempa\uc@tx}
20664 \def\uc@authornothanks#1\and{\uc@nothanks#1\thanks\relax
20665 \futurelet\@tempa\uc@ax}
20666 \def\uc@ax{%
20667 \ifx\@tempa\relax
20668 \else
20669 \\\andname \\\expandafter\uc@authornothanks
20670 \fi}
20671 \def\uc@tx{\ifx\@tempa\relax
20672 \else \expandafter\uc@ty \fi}
20673 \def\uc@ty#1{\thanks{#1}\uc@nothanks}
20674 \else
20675 \renewcommand*\maketitle{\par
20676 \begingroup
20677 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
20678 \def\@makefnmark{\rlap{%
20679 \@textsuperscript{\normalfont\@thefnmark}}}%
20680 \long\def\@makefntext{\@xmakefntext{%
20681 \@textsuperscript{\normalfont\@thefnmark}}}%
20682 \if@twocolumn
20683 \ifnum \col@number=\@ne
20684 \@maketitle
20685 \else
20686 \twocolumn[\@maketitle]%
20687 \fi
20688 \else
20689 \newpage
20690 \global\@topnum\z@
20691 \@maketitle
20692 \fi
20693 \thispagestyle{plain}\@thanks
20694 \endgroup
20695 \setcounter{footnote}{0}%
20696 \global\let\thanks\relax
20697 \global\let\LTRthanks\relax
20698 \global\let\RTLthanks\relax
20699 \global\let\maketitle\relax
20700 \global\let\@maketitle\relax
20701 \global\let\@thanks\@empty
20702 \global\let\@author\@empty
20703 \global\let\@title\@empty
20704 \global\let\@date\@empty
20705 \global\let\title\relax
20706 \global\let\author\relax
20707 \global\let\date\relax
20708 \global\let\and\relax

```



```

20709 }
20710 \def\@maketitle{%
20711   \newpage
20712   \null
20713   \vskip 2em%
20714   \if@titlecentered
20715     \begin{center}%
20716       \let \footnote \thanks
20717       \let \LTRfootnote \LTRthanks
20718       \let \RTLfootnote \RTLthanks
20719       {\LARGE \TitleFont \@title \par}%
20720       \vskip 1.5em%
20721       {\large \TitleFont
20722         \lineskip .5em%
20723         \begin{tabular}[t]{c}%
20724           \@author
20725         \end{tabular}\par}%
20726       \vskip 1em%
20727       {\large \TitleFont \@date}%
20728     \end{center}%
20729   \else
20730     {\LARGE \TitleFont \head@style \@title \par} \vskip 1.5em
20731     {\large \TitleFont \lineskip .5em \tabcolsep\z@
20732       \def\and{%%} \begin{tabular} has already started
20733         \end{tabular}\hskip 1em plus .17fil
20734         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi}% \end{tabular}
20735         \if@RTL\begin{tabular}[t]{r}\else\begin{tabular}[t]{l}\fi\@author\end{tabular}
20736       \vskip 1em {\large \TitleFont \@date}
20737   \fi
20738   \par
20739   \vskip 1.5em}
20740 \fi
20741 \renewcommand*\@regtocline[3]{%
20742   \ifnum #1>\c@tocdepth
20743   \else
20744     \vskip\z@\@plus.2\p@
20745     {\hangindent\z@ \@afterindenttrue \interlinepenalty\@M
20746       \if@RTL\righskip\else\leftskip\fi\unitindent
20747       \if@RTL\leftskip\else\righskip\fi\unitindent\@plus 1fil
20748       \parfillskip\z@
20749       \@tempdima\unitindent
20750       \parindent\z@
20751       \leavevmode
20752       \hbox{}\hskip -\if@RTL\righskip\else\leftskip\fi\relax#2\nobreak
20753       \hskip 1em \nobreak{\slshape #3}\par
20754     }%
20755   \fi}
20756 \if@oldtoc
20757 \renewcommand*\l@part[2]{%
20758   \ifnum \c@tocdepth >-2\relax
20759     \addpenalty{-\@highpenalty}%
20760     \addvspace{2.25em \@plus\p@}%
20761     \begingroup
20762     \setlength\@tempdima{3em}%

```



```

20763     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20764     \parfillskip -\@pnumwidth
20765     {\leavevmode
20766       \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
20767       \nobreak
20768       \global\@nobreaktrue
20769       \everypar{\global\@nobreakfalse\everypar{}}%
20770     \endgroup
20771   \fi}
20772 \else
20773   \renewcommand*\l@part{%
20774     \ifnum \c@tocdepth >-2\relax
20775       \addpenalty{-\@highpenalty}%
20776       \advspace{2.25em \@plus \p@}%
20777       \@regtocline{0}%
20778     \fi}
20779 \fi
20780 \if@oldtoc
20781 \renewcommand*\l@chapter[2]{%
20782   \addpenalty{-\@highpenalty}%
20783   \vskip 1.0em \@plus \p@
20784   \setlength\@tempdima{1.5em}%
20785   \begingroup
20786     \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20787     \parfillskip -\@pnumwidth
20788     \leavevmode \bfseries
20789     \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
20790     \hskip -\if@RTL\rightskip\else\leftskip\fi
20791     #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
20792     \penalty\@highpenalty
20793   \endgroup}
20794 \else
20795   \renewcommand*\l@chapter{\@regtocline{0}}
20796 \fi
20797 \renewcommand*\head@style{%
20798   \interlinepenalty \@M
20799   \hyphenpenalty=\@M \exhyphenpenalty=\@M
20800   \if@RTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}
20801 \if@titlepage
20802   \renewenvironment{abstract}{%
20803     \titlepage
20804     \null\vfil
20805     \section*{\SectFont\abstractname}%
20806     \noindent\ignorespaces}
20807     {\par\vfil\null\endtitlepage}
20808 \else
20809   \renewenvironment{abstract}{%
20810     \if@twocolumn
20811       \section*{\abstractname}%
20812     \else
20813       \bgroup\if@RTL\leftskip\else\rightskip\fi=\unitindent
20814       \section*{\small\SectFont\abstractname}%
20815       \noindent\ignorespaces
20816     \fi}

```



```

20817      {\if@twocolumn\else\par\egroup\fi}
20818 \fi
20819 \renewcommand*\thesection{\thechapter\@SepMark\@arabic\c@section}
20820 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\csubsection}
20821 \renewcommand*\thesubsubsection{\thesubsection\@SepMark\@arabic\csubsubsection}
20822 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
20823 \renewcommand*\thesubparagraph{\theparagraph\@SepMark\@arabic\c@subparagraph}
20824 \renewcommand*\thefigure{%
20825   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@figure}
20826 \renewcommand*\thetable{%
20827   \ifnum\c@chapter>\z@\thechapter\@SepMark\fi\@arabic\c@table}
20828 \renewcommand*\theequation{%
20829   \ifnum \c@chapter>\z@ \thechapter\@SepMark\fi\@arabic\c@equation}
20830 \renewenvironment{thebibliography}[1]
20831   {\chapter*{\bibname}%
20832    \mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
20833    \ifRTL\ifLTRbibitems\@RTLfalse\else\fi\else\ifRTLbibitems\@RTLtrue\else\fi\fi
20834    \bidi@thebibliography@font@hook%
20835    \list{\@biblabel{\@arabic\c@enumiv}}%
20836      {\settowidth\labelwidth{\@biblabel{#1}}%
20837       \leftmargin\labelwidth
20838       \advance\leftmargin\labelsep
20839       \@openbib@code
20840       \usecounter{enumiv}%
20841       \let\p@enumiv\@empty
20842       \renewcommand*\theenumiv{\@arabic\c@enumiv}}%
20843    \sloppy\clubpenalty4000\widowpenalty4000%
20844    \sfcode\.\@m}
20845 {\def\@noitemerr
20846   {\@latex@warning{Empty `thebibliography' environment}}}%
20847 \endlist}
20848 \renewcommand*\left@footnoterule{%
20849   \kern-3\p@
20850   \kern.5\baselineskip
20851   \hrule\@width\unitindent
20852   \kern.4\baselineskip
20853 }
20854 \renewcommand*\right@footnoterule{%
20855   \kern-3\p@
20856   \kern.5\baselineskip
20857   \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\unitindent\relax \hrulefill }
20858   \kern.4\baselineskip}
20859 \renewcommand*\head@style{%
20860   \interlinepenalty \@M
20861   \hyphenpenalty=\@M \exhyphenpenalty=\@M
20862   \ifRTL\leftskip\else\rightskip\fi=0cm plus .7\hsize\relax}

```

## 137 File refrep-xetex-bidi.def

```

20863 \ProvidesFile{refrep-xetex-bidi.def}[2017/06/09 v0.5 bidi adaptations for refrep class for X
20864 \if@titlepage
20865   \renewcommand\maketitle{\begin{titlepage}%
20866     \let\footnotesize\small
20867     \let\right@footnoterule\relax

```



```

20868 \let\left@footnoterule\relax
20869 \let\textwidth@footnoterule\relax
20870 \let\footnote\thanks
20871 \let\LTRfootnote\LTRthanks
20872 \let\RTLfootnote\RTLthanks
20873 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
20874 \def\@makefnmark%
20875     {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
20876 \long\def\@makefntext##1{%
20877     \setpar{\@par
20878         \@tempdima = \hsize
20879         \advance\@tempdima -1em
20880         \parshape \@ne 1em \@tempdima}%
20881     \par\parindent 1em \noindent
20882     \hb@xt@{\z@\hss\@textsuperscript{\normalfont\@thefnmark}}\,##1}
20883 \null\vfil
20884 \vskip 60\p@
20885 \begin{center}%
20886     {\LARGE \@title \par}%
20887     \vskip 3em%
20888     {\large
20889         \lineskip .75em%
20890         \begin{tabular}[t]{c}%
20891             \@author
20892         \end{tabular}\par}%
20893     \vskip 1.5em%
20894     {\large \@date \par}%           % Set date in \large size.
20895 \end{center}\par
20896 \@thanks
20897 \vfil\null
20898 \end{titlepage}%
20899 \setcounter{footnote}{0}%
20900 \global\let\thanks\relax
20901 \global\let\LTRthanks\relax
20902 \global\let\RTLthanks\relax
20903 \global\let\maketitle\relax
20904 \global\let\@thanks\@empty
20905 \global\let\@author\@empty
20906 \global\let\@date\@empty
20907 \global\let\@title\@empty
20908 \global\let\title\relax
20909 \global\let\author\relax
20910 \global\let\date\relax
20911 \global\let\and\relax
20912 }
20913 \else
20914 \renewcommand\maketitle{\par
20915     \begingroup
20916         \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
20917         \def\@makefnmark%
20918             {\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
20919         \long\def\@makefntext##1{%
20920             \setpar{\@par
20921                 \@tempdima = \hsize

```





```

20922         \advance\@tempdima -1em
20923         \parshape \@ne 1em \@tempdima}%
20924     \par\parindent 1em \noindent
20925     \hb@xt@\z@{\hss\@textsuperscript{\normalfont\@thefnmark}\,}##1}
20926 \if@twocolumn
20927     \ifnum \col@number=\@ne
20928         \@maketitle
20929     \else
20930         \twocolumn[\@maketitle]%
20931     \fi
20932 \else
20933     \newpage
20934     \global\@topnum\z@    % Prevents figures from going at top of page.
20935     \@maketitle
20936 \fi
20937     \thispagestyle{empty}\@thanks
20938 \endgroup
20939 \setcounter{footnote}{0}%
20940 \global\let\thanks\relax
20941 \global\let\LTRthanks\relax
20942 \global\let\RTLthanks\relax
20943 \global\let\maketitle\relax
20944 \global\let\@maketitle\relax
20945 \global\let\@thanks\@empty
20946 \global\let\@author\@empty
20947 \global\let\@date\@empty
20948 \global\let\@title\@empty
20949 \global\let\title\relax
20950 \global\let\author\relax
20951 \global\let\date\relax
20952 \global\let\and\relax
20953 }
20954 \def\@maketitle{%
20955     \newpage
20956     \null
20957     \longthickrule\vskip1.5em%
20958     \let \footnote \thanks
20959     \let \LTRfootnote \LTRthanks
20960     \let \RTLfootnote \RTLthanks
20961     {\secshape \parskip\z@ \parindent\z@
20962     \Large\bfseries \@title \par}%
20963     \vskip1.5em\longthickrule\vskip1.5em%
20964     {\normalsize
20965     \lineskip .5em%
20966     \begin{flushright}%
20967         {\slshape\@author\par}
20968         \vskip 1em%
20969         {\@date}%
20970     \end{flushright}\par}%
20971     \vskip 1.5em}
20972 \fi
20973 \renewcommand*\l@part[2]{%
20974     \ifnum \c@tocdepth >-2\relax
20975         \addpenalty{-\@highpenalty}%

```



```

20976 \addvspace{2.25em \@plus\p@}%
20977 \begingroup
20978 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20979 \parfillskip -\@pnumwidth
20980 {\leavevmode
20981 \large \bfseries #1\hfil \hbox to\@pnumwidth{\hss #2}}\par
20982 \nobreak
20983 \global\@nobreaktrue
20984 \everypar{\global\@nobreakfalse\everypar{}}%
20985 \endgroup
20986 \fi}
20987 \renewcommand*\l@chapter[2]{%
20988 \ifnum \c@tocdepth >\m@ne
20989 \addpenalty{-\@highpenalty}%
20990 \vskip 1.0em \@plus\p@
20991 \setlength\@tempdima{1.5em}%
20992 \begingroup
20993 \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
20994 \parfillskip -\@pnumwidth
20995 \leavevmode \bfseries
20996 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
20997 \hskip -\if@RTL\rightskip\else\leftskip\fi
20998 #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
20999 \penalty\@highpenalty
21000 \endgroup
21001 \fi}
21002 \renewcommand\secshape{\if@RTL\rightskip\else\leftskip\fi=-\leftmarginwidth%
21003 \if@RTL\leftskip\else\rightskip\fi=\@flushglue%
21004 \hyphenpenalty=2000}
21005 \renewcommand\left@footnoterule{%
21006 \kern-3\p@
21007 \hrule\@width.4\columnwidth
21008 \kern 2.6\p@}
21009 \renewcommand\right@footnoterule{%
21010 \kern-3\p@
21011 \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
21012 \kern2.6\p@}
21013 \renewcommand\theequation
21014 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
21015 \renewcommand\thefigure
21016 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
21017 \renewcommand\thetable%
21018 {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
21019 \renewcommand\thesection {\thechapter\@SepMark\@arabic\c@section}
21020 \renewcommand\thesubsection {\thesubsection\@SepMark\@arabic\c@subsection}
21021 \renewcommand\thesubsubsection {\thesubsubsection\@SepMark\@arabic\c@subsubsection}
21022 \renewcommand\theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
21023 \renewcommand\thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
21024 \renewenvironment{thebibliography}[1]
21025 {\chapter*{\bibname
21026 \mkboth{\bibname}{\bibname}}%
21027 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21028 \bidi@thebibliography@font@hook%
21029 \list{\@biblabel{\@arabic\c@enumiv}}%

```



```

21030         {\settowidth\labelwidth{\@biblabel{#1}}%
21031         \leftmargin\labelwidth
21032         \advance\leftmargin\labelsep
21033         \@openbib@code
21034         \usecounter{enumiv}%
21035         \let\p@enumiv\@empty
21036         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
21037         \sloppy
21038         \clubpenalty4000
21039         \@clubpenalty \clubpenalty
21040         \widowpenalty4000%
21041         \sfcode`\.=\@m}
21042     {\def\@noitemerr
21043     {\@latex@warning{Empty `thebibliography' environment}}}%
21044     \endlist}

```

## 138 File report-xetex-bidi.def

```

21045 \ProvidesFile{report-xetex-bidi.def}[2025/03/01 v0.9 bidi adaptations for standard report cl
21046 \renewenvironment{theindex}
21047     {\if@twocolumn
21048         \@restonecolfalse
21049         \else
21050             \@restonecoltrue
21051         \fi
21052         \columnseprule \z@
21053         \columnsep 35\p@
21054         \twocolumn[\@makeschapterhead{\indexname}]%
21055         \@mkboth{\MakeUppercase\indexname}%
21056                 {\MakeUppercase\indexname}%
21057         \thispagestyle{plain}\parindent\z@
21058         \parskip\z@ \@plus .3\p@\relax
21059         \let\item\@idxitem}
21060     {\if@restonecol\onecolumn\else\clearpage\fi}
21061 \if@titlepage
21062 \renewcommand\maketitle{\begin{titlepage}%
21063 \let\footnotesize\small
21064 \let\right@footnoterule\relax
21065 \let\left@footnoterule\relax
21066 \let\textwidth\footnoterule\relax
21067 \let \footnote \thanks
21068 \let \LTRfootnote \LTRthanks
21069 \let \RTLfootnote \RTLthanks
21070 \null\vfil
21071 \vskip 60\p@
21072 \begin{center}%
21073     {\LARGE \@title \par}%
21074     \vskip 3em%
21075     {\large
21076         \lineskip .75em%
21077         \begin{tabular}[t]{c}%
21078             \@author
21079         \end{tabular}\par}%
21080     \vskip 1.5em%

```



```

21081     {\large \@date \par}%           % Set date in \large size.
21082 \end{center}\par
21083 \@thanks
21084 \vfil\null
21085 \end{titlepage}%
21086 \setcounter{footnote}{0}%
21087 \global\let\thanks\relax
21088 \global\let\LTRthanks\relax
21089 \global\let\RTLthanks\relax
21090 \global\let\maketitle\relax
21091 \global\let\@thanks\@empty
21092 \global\let\@author\@empty
21093 \global\let\@date\@empty
21094 \global\let\@title\@empty
21095 \global\let\title\relax
21096 \global\let\author\relax
21097 \global\let\date\relax
21098 \global\let\and\relax
21099 }
21100 \else
21101 \renewcommand\maketitle{\par
21102 \begingroup
21103 \renewcommand\thefootnote{\@fnsymbol\c@footnote}%
21104 \def\@makefnmark{\rlap{\@textsuperscript{\normalfont\@thefnmark}}}%
21105 \long\def\@makefntext##1{\parindent 1em\noindent
21106 \hspace{1.8em}%
21107 \hss\@textsuperscript{\normalfont\@thefnmark}}##1}%
21108 \if@twocolumn
21109 \ifnum \col@number=\@ne
21110 \maketitle
21111 \else
21112 \twocolumn[\maketitle]%
21113 \fi
21114 \else
21115 \newpage
21116 \global\@topnum\z@ % Prevents figures from going at top of page.
21117 \maketitle
21118 \fi
21119 \thispagestyle{plain}\@thanks
21120 \endgroup
21121 \setcounter{footnote}{0}%
21122 \global\let\thanks\relax
21123 \global\let\LTRthanks\relax
21124 \global\let\RTLthanks\relax
21125 \global\let\maketitle\relax
21126 \global\let\@maketitle\relax
21127 \global\let\@thanks\@empty
21128 \global\let\@author\@empty
21129 \global\let\@date\@empty
21130 \global\let\@title\@empty
21131 \global\let\title\relax
21132 \global\let\author\relax
21133 \global\let\date\relax
21134 \global\let\and\relax

```



```

21135 }
21136 \def\@maketitle{%
21137   \newpage
21138   \null
21139   \vskip 2em%
21140   \begin{center}%
21141     \let \footnote \thanks
21142     \let \LTRfootnote \LTRthanks
21143     \let \RTLfootnote \RTLthanks
21144     {\LARGE \@title \par}%
21145     \vskip 1.5em%
21146     {\large
21147       \lineskip .5em%
21148       \begin{tabular}[t]{c}%
21149         \@author
21150         \end{tabular}\par}%
21151     \vskip 1em%
21152     {\large \@date}%
21153   \end{center}%
21154   \par
21155   \vskip 1.5em}
21156 \fi
21157 \IfPackageLoadedF{tocloft}{%
21158 \renewcommand*\l@part[2]{%
21159   \ifnum \c@tocdepth >-2\relax
21160     \addpenalty{-\@highpenalty}%
21161     \addvspace{2.25em \@plus\p}%
21162     \setlength\@tempdima{3em}%
21163     \begingroup
21164       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21165       \parfillskip -\@pnumwidth
21166       {\leavevmode
21167         \large \bfseries #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par
21168       \nobreak
21169       \global\@nobreaktrue
21170       \everypar{\global\@nobreakfalse\everypar{}}%
21171     \endgroup
21172   \fi}
21173 \renewcommand*\l@chapter[2]{%
21174   \ifnum \c@tocdepth >\m@ne
21175     \addpenalty{-\@highpenalty}%
21176     \vskip 1.0em \@plus\p@
21177     \setlength\@tempdima{1.5em}%
21178     \begingroup
21179       \parindent \z@ \if@RTL\leftskip\else\rightskip\fi \@pnumwidth
21180       \parfillskip -\@pnumwidth
21181       \leavevmode \bfseries
21182       \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima
21183       \hskip -\if@RTL\rightskip\else\leftskip\fi
21184       #1\nobreak\hfil \nobreak\hb@xt@\@pnumwidth{\hss #2}\par
21185       \penalty\@highpenalty
21186     \endgroup
21187   \fi}
21188 }

```



```

21189 \renewcommand\left@footnoterule{%
21190   \kern-3\p@
21191   \hrule\@width.4\columnwidth
21192   \kern2.6\p@}
21193 \renewcommand\right@footnoterule{%
21194   \kern-3\p@
21195   \hbox to \columnwidth{\hskip .6\columnwidth \hrulefill }
21196   \kern2.6\p@}
21197 \renewcommand\theequation
21198   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@equation}
21199 \renewcommand \thefigure
21200   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@figure}
21201 \renewcommand \thetable
21202   {\ifnum \c@chapter>\z@ \thechapter\@SepMark\fi \@arabic\c@table}
21203 \renewcommand \thechapter {\@arabic\c@chapter}
21204 \renewcommand \thesection {\thechapter\@SepMark\@arabic\c@section}
21205 \renewcommand \thesubsection {\thesection\@SepMark\@arabic\c@subsection}
21206 \renewcommand \thesubsubsection{\thesubsection \@SepMark\@arabic\c@subsubsection}
21207 \renewcommand \theparagraph {\thesubsubsection\@SepMark\@arabic\c@paragraph}
21208 \renewcommand \thesubparagraph {\theparagraph\@SepMark\@arabic\c@subparagraph}
21209 \def\@makechapterhead#1{%
21210   \vspace*{50\p@}%
21211   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi \normalfont
21212     \ifnum \c@secnumdepth >\m@ne
21213       \huge\bfseries \@chapapp\space \thechapter
21214       \par\nobreak
21215       \vskip 20\p@
21216     \fi
21217     \interlinepenalty\@M
21218     \Huge \bfseries #1\par\nobreak
21219     \vskip 40\p@
21220   }}
21221 \def\@makeschapterhead#1{%
21222   \vspace*{50\p@}%
21223   {\parindent \z@ \if@RTL\raggedleft\else\raggedright\fi
21224     \normalfont
21225     \interlinepenalty\@M
21226     \Huge \bfseries #1\par\nobreak
21227     \vskip 40\p@
21228   }}
21229 \renewenvironment{thebibliography}[1]
21230   {\chapter*{\bibname}%
21231     \@mkboth{\MakeUppercase\bibname}{\MakeUppercase\bibname}%
21232     \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21233     \bidi@@thebibliography@font@hook%
21234     \list{\@biblabel{\@arabic\c@enumiv}}%
21235       {\settowidth\labelwidth{\@biblabel{#1}}%
21236         \leftmargin\labelwidth
21237         \advance\leftmargin\labelsep
21238         \@openbib@code
21239         \usecounter{enumiv}%
21240         \let\p@enumiv\@empty
21241         \renewcommand\theenumiv{\@arabic\c@enumiv}}%
21242     \sloppy

```



```

21243 \clubpenalty4000
21244 \@clubpenalty \clubpenalty
21245 \widowpenalty4000%
21246 \sfcode\.\@m}
21247 {\def\@noitemerr
21248 {\@latex@warning{Empty `thebibliography' environment}}}%
21249 \endlist}

```

## 139 File rotating-xetex-bidi.def

```

21250 \ProvidesFile{rotating-xetex-bidi.def}[2013/05/22 v0.2 bidi adaptations for rotating package]
21251 \def\end@rotfloat{%
21252 \end{minipage}\end{lrbox}%
21253 \stepcounter{r@tfl@t}%
21254 \rot@label{RF\ther@tfl@t}%
21255 \rot@pageref{RF\ther@tfl@t}{\R@@page}%
21256 \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
21257 \rot@mess@toks\expandafter{\@tempa}
21258 \wd\rot@float@box\z@
21259 \ht\rot@float@box\z@
21260 \dp\rot@float@box\z@
21261 \vboxL to \textheight{%
21262 \setkeys{Grot}{units=360}}%
21263 \if@rot@twoside
21264 \else
21265 \let\R@@page\rot@LR
21266 \fi
21267 \ifthenelse{\isodd{\R@@page}}{%
21268 \if@rot@twoside
21269 \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}%
21270 \fi
21271 \vfill
21272 \@@line{%
21273 \hskip\rotFPtop
21274 \rotatebox{90}{\box\rot@float@box}%
21275 \hskip\rotFPbot
21276 }%
21277 }{%
21278 \if@rot@twoside
21279 \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}%
21280 \fi
21281 \@@line{%
21282 \hskip\rotFPbot
21283 \rotatebox{-90}{\box\rot@float@box}%
21284 \hskip\rotFPtop
21285 }%
21286 \vfill
21287 }%
21288 \rot@message{\the\rot@mess@toks}
21289 }%
21290 \end@float
21291 }
21292 \let\endsidewaysfigure\end@rotfloat
21293 \let\endsidewaystable\end@rotfloat

```



```

21294 \def\end@rotdblfloat{%
21295   \end{minipage}\end{lrbox}%
21296   \stepcounter{r@tfl@t}%
21297   \rot@label{RF\ther@tfl@t}%
21298   \rot@pageref{RF\ther@tfl@t}{\R@@page}%
21299   \edef\@tempa{Adding sideways \capttype\space on page \R@@page\space}
21300   \rot@mess@toks\expandafter{\@tempa}
21301   \@tempdima\ht\rot@float@box
21302   \advance\@tempdima by \dp\rot@float@box
21303   \wd\rot@float@box\z@
21304   \ht\rot@float@box\z@
21305   \dp\rot@float@box\z@
21306   \vboxL to \textheight{%
21307     \setkeys{Grot}{units=360}%
21308     \if@rot@twoside
21309       \else
21310         \let\R@@page\rot@LR
21311         \fi
21312     \ifthenelse{\isodd{\R@@page}}{%
21313       \ifrot@messages
21314         \if@rot@twoside
21315       \rot@mess@toks\expandafter{\the\rot@mess@toks (right hand page)}}%
21316   \fi
21317     \fi
21318     \vfill
21319     \@@line{%
21320       \hskip\rotFPtop
21321       \rotatebox{90}{\box\rot@float@box}%
21322       \hskip\rotFPbot
21323     }%
21324   }{%
21325     \ifrot@messages
21326     \if@rot@twoside
21327     \rot@mess@toks\expandafter{\the\rot@mess@toks (left hand page)}}%
21328   \fi
21329     \fi%
21330     \@@line{%
21331       \hskip\rotFPbot
21332       \rotatebox{-90}{\box\rot@float@box}%
21333       \hskip\rotFPtop
21334     }%
21335     \vfill
21336   }%
21337   \rot@message{\the\rot@mess@toks}%
21338 }%
21339 \end@dblfloat
21340 }
21341 \def\turn#1{%
21342   \Grot@setangle{#1}%
21343   \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21344 \def\endturn{%
21345   \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21346   \unskip\color@endbox
21347   \Grot@x\z@

```





```

21348 \Grot@y\z@
21349 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21350 }
21351 \def\rotate#1{%
21352 \Grot@setangle{#1}%
21353 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21354 \def\endrotate{%
21355 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21356 \unskip\color@endbox
21357 \Grot@x\z@
21358 \Grot@y\z@
21359 \wd0\z@\dp0\z@\ht0\z@
21360 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21361 }
21362 \def\turnbox#1#2{%
21363 \Grot@setangle{#1}%
21364 \setbox\z@\hbox{\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi#2\ifmmode\if@RTL\endR\fi\fi}
21365 \Grot@x\z@\Grot@y\z@
21366 \wd0\z@\dp0\z@\ht0\z@
21367 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21368 }
21369 \def\sideways{%
21370 \Grot@setangle{90}%
21371 \setbox\z@\color@hbox\ifmmode\if@RTL\beginR\fi\else\if@RTL\beginR\fi\fi\ignorespaces}
21372 \def\endsideways{%
21373 \ifmmode\if@RTL\endR\fi\else\if@RTL\endR\fi\fi
21374 \unskip\color@endbox
21375 \Grot@x\z@
21376 \Grot@y\z@
21377 \ifmmode\else\if@RTL\beginL\fi\fi\Grot@box\ifmmode\else\if@RTL\endL\fi\fi
21378 }

```

## 140 File scrartcl-xetex-bidi.def

```

21379 \ProvidesFile{scrartcl-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrartcl class f
21380 \newcommand{\scr@saved@LTRfootnotetext}{}
21381 \newcommand{\scr@saved@RTLfootnotetext}{}
21382 \let\scr@saved@footnotetext\@footnotetext
21383 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
21384 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
21385 \renewcommand{\@footnotetext}[1]{%
21386 \scr@saved@footnotetext{#1}%
21387 \csname FN@mfp@prepare\endcsname
21388 }
21389 \renewcommand{\@LTRfootnotetext}[1]{%
21390 \scr@saved@LTRfootnotetext{#1}%
21391 \csname FN@mfp@prepare\endcsname
21392 }
21393 \renewcommand{\@RTLfootnotetext}[1]{%
21394 \scr@saved@RTLfootnotetext{#1}%
21395 \csname FN@mfp@prepare\endcsname
21396 }
21397 \renewcommand\deffootnote[4][1]{%
21398 \expandafter\ifnum\scr@v@is@ge{3.22}\relax

```



```

21399 \long\def\@makefntext##1{%
21400 \ExecuteDoHook{footnote/text/begin}%
21401 \raggedfootnote
21402 \if@RTL
21403 \rightskip
21404 \else
21405 \leftskip
21406 \fi
21407 #2
21408 \l@addto@macro\@trivlist{%
21409 \ifnum\@listdepth=\@ne
21410 \if@RTL
21411 \advance\rightmargin #2\relax
21412 \else
21413 \advance\leftmargin #2\relax
21414 \fi
21415 \fi
21416 }%
21417 \parindent #3\noindent
21418 \IfArgIsEmpty{#1}{-}{%
21419 \hskip \dimexpr #1-#2\relax
21420 }%
21421 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
21422 \ExecuteDoHook{footnote/text/end}%
21423 }%
21424 \else
21425 \ClassInfo{\KOMAClassName}{%
21426 Using old \string\@makefntext\space due to compatibility
21427 level\MessageBreak
21428 less than 3.22}%
21429 \long\def\@makefntext##1{%
21430 \setlength{\@tempdimc}{#3}%
21431 \def\@tempa{#1}\ifx\@tempa\@empty
21432 \setpar{\@par
21433 \@tempdima = \hsize
21434 \addtolength{\@tempdima}{-#2}%
21435 \if@RTL
21436 \parshape \@ne \z@ \@tempdima
21437 \else
21438 \parshape \@ne #2 \@tempdima
21439 \fi}%
21440 \else
21441 \addtolength{\@tempdimc}{#2}%
21442 \addtolength{\@tempdimc}{-#1}%
21443 \setpar{\@par
21444 \@tempdima = \hsize
21445 \addtolength{\@tempdima}{-#1}%
21446 \@tempdimb = \hsize
21447 \addtolength{\@tempdimb}{-#2}%
21448 \if@RTL
21449 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
21450 \else
21451 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
21452 \fi

```



```

21453     }%
21454     \fi
21455     \par
21456     \parindent\@tempdimc\noindent
21457     \ftn@font\hbox to \z@\{\hss\@makefnmark\}##1%
21458     }%
21459     \fi
21460     \def\@makefnmark{\hbox{\ftn@font{#4}}}%
21461 }
21462 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
21463 \renewcommand*\left@footnoterule{%
21464     \normalsize\ftn@rule@test@values
21465     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21466     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21467     {\usekomafont{footnoterule}{%
21468         \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
21469     \kern 2.6\p@}
21470 \renewcommand*\right@footnoterule{%
21471     \normalsize\ftn@rule@test@values
21472     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
21473     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
21474     {\usekomafont{footnoterule}{%
21475         \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
21476     \kern 2.6\p@}
21477 \renewcommand*\maketitle[1][1]{%
21478     \expandafter\ifnum \csname scr@v3.12\endcsname>\scr@compatibility\relax
21479     \else
21480         \def\and{%
21481             \end{tabular}%
21482             \hskip 1em \@plus.17fil%
21483             \begin{tabular}[t]{c}%
21484         }%
21485     \fi
21486     \if@titlepage
21487         \begin{titlepage}
21488             \setcounter{page}{%
21489                 #1%
21490             }%
21491             \if@titlepageiscoverpage
21492                 \edef\titlepage@restore{%
21493                     \noexpand\endgroup
21494                     \noexpand\global\noexpand\@colht\the\@colht
21495                     \noexpand\global\noexpand\@colroom\the\@colroom
21496                     \noexpand\global\vsizethe\vsizethe
21497                     \noexpand\global\noexpand\@titlepageiscoverpagefalse
21498                     \noexpand\let\noexpand\titlepage@restore\noexpand\relax
21499                 }%
21500                 \begingroup
21501                 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
21502                 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
21503                 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
21504                 \textwidth=\dimexpr
21505                 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
21506                 \textheight=\dimexpr

```



```

21507      \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
21508      \headheight=0pt
21509      \headsep=0pt
21510      \footskip=\baselineskip
21511      \@colht=\textheight
21512      \@colroom=\textheight
21513      \vsize=\textheight
21514      \columnwidth=\textwidth
21515      \hsize=\columnwidth
21516      \linewidth=\hsize
21517      \else
21518      \let\titlepage@restore\relax
21519      \fi
21520      \let\footnotesize\small
21521      \let\right@footnoterule\relax
21522      \let\left@footnoterule\relax
21523      \let\textwidth@footnoterule\relax
21524      \let\footnote\thanks
21525      \let\LTRfootnote\LTRthanks
21526      \let\RTLfootnote\RTLthanks
21527      \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21528      \let\@oldmakefnmark\@makefnmark
21529      \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
21530      \ifx\@extratitle\@empty
21531      \ifx\@frontispiece\@empty
21532      \else
21533      \if@twoside\mbox{}\next@tpage\fi
21534      \noindent\@frontispiece\next@tdpage
21535      \fi
21536      \else
21537      \noindent\@extratitle
21538      \ifx\@frontispiece\@empty
21539      \else
21540      \next@tpage
21541      \noindent\@frontispiece
21542      \fi
21543      \next@tdpage
21544      \fi
21545      \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updateerelative
21546      \ifx\@titlehead\@empty \else
21547      \begin{minipage}[t]{\textwidth}%
21548      \usekomafont{titlehead}{\@titlehead\par}%
21549      \end{minipage}\par
21550      \fi
21551      \null\vfill
21552      \begin{center}
21553      \ifx\@subject\@empty \else
21554      {\usekomafont{subject}{\@subject\par}}%
21555      \vskip 3em
21556      \fi
21557      {\usekomafont{title}{\huge \@title\par}}%
21558      \vskip 1em
21559      {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
21560      \vskip 2em

```



```

21561      {%
21562        \usekomafont{author}{%
21563          \lineskip 0.75em
21564          \begin{tabular}[t]{c}
21565            \@author
21566          \end{tabular}\par
21567        }%
21568      }%
21569      \vskip 1.5em
21570      {\usekomafont{date}{\@date \par}}%
21571      \vskip \z@ \@plus3fill
21572      {\usekomafont{publishers}{\@publishers \par}}%
21573      \vskip 3em
21574    \end{center}\par
21575    \@thanks\global\let\@thanks\@empty
21576    \vfill\null
21577    \if@twoside
21578      \@tempwattrue
21579      \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
21580      \else
21581        \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
21582          \@tempwafalse
21583        \fi\fi
21584      \fi
21585      \if@tempwa
21586        \next@tpage
21587        \begin{minipage}[t]{\textwidth}
21588          \@uppertitleback
21589        \end{minipage}\par
21590        \vfill
21591        \begin{minipage}[b]{\textwidth}
21592          \@lowertitleback
21593        \end{minipage}\par
21594        \@thanks\global\let\@thanks\@empty
21595      \fi
21596    \else
21597      \ifx\@uppertitleback\@empty\else
21598        \ClassWarning{\KOMAClassName}{%
21599          non empty \string\uppertitleback\space ignored
21600          by \string\maketitle\MessageBreak
21601          in `twoside=false' mode%
21602        }%
21603      \fi
21604      \ifx\@lowertitleback\@empty\else
21605        \ClassWarning{\KOMAClassName}{%
21606          non empty \string\lowertitleback\space ignored
21607          by \string\maketitle\MessageBreak
21608          in `twoside=false' mode%
21609        }%
21610      \fi
21611    \fi
21612    \ifx\@dedication\@empty
21613    \else
21614      \next@tdpage\null\vfill

```



```

21615         {\centering\usekomafont{dedication}{\@dedication \par}}%
21616         \vskip \z@ \@plus3fill
21617         \@thanks\global\let\@thanks\@empty
21618         \cleardoubleemptypage
21619     \fi
21620     \ifx\tITLEPAGE@restore\relax\else\clearpage\tITLEPAGE@restore\fi
21621 \end{titlepage}
21622 \else
21623     \par
21624     \@tempcnta=%
21625     #1%
21626     \relax\ifnum\@tempcnta=1\else
21627         \ClassWarning{\KOMAClassName}{%
21628             Optional argument of \string\maketitle\space ignored\MessageBreak
21629             in `titlepage=false' mode%
21630         }%
21631     \fi
21632     \ifx\@uppertitleback\@empty\else
21633         \ClassWarning{\KOMAClassName}{%
21634             non empty \string\uppertitleback\space ignored
21635             by \string\maketitle\MessageBreak
21636             in `titlepage=false' mode%
21637         }%
21638     \fi
21639     \ifx\@lowertitleback\@empty\else
21640         \ClassWarning{\KOMAClassName}{%
21641             non empty \string\lowertitleback\space ignored
21642             by \string\maketitle\MessageBreak
21643             in `titlepage=false' mode%
21644         }%
21645     \fi
21646     \begingroup
21647         \let\tITLEPAGE@restore\relax
21648         \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
21649         \let\@oldmakefnmark\@makefnmark
21650         \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
21651         \next@tdpage
21652         \if@twocolumn
21653             \ifnum \col@number=\@one
21654                 \ifx\@extratitle\@empty
21655                     \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21656                 \else
21657                     \@makeextratitle
21658                 \fi
21659                 \ifx\@frontispiece\@empty
21660                     \ifx\@extratitle\@empty\else\next@tdpage\fi
21661                 \else
21662                     \next@tpage
21663                     \@makefrontispiece
21664                     \next@tdpage
21665                 \fi
21666                 \@maketitle
21667             \else
21668                 \ifx\@extratitle\@empty

```



```

21669         \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
21670     \else
21671         \twocolumn[\@makeextratitle]%
21672     \fi
21673     \ifx\@frontispiece\@empty
21674         \ifx\@extratitle\@empty\else\next@tdpage\fi
21675     \else
21676         \next@tpage
21677         \twocolumn[\@makefrontispiece]%
21678         \next@tdpage
21679     \fi
21680     \twocolumn[\@maketitle]%
21681 \fi
21682 \else
21683     \ifx\@extratitle\@empty
21684         \ifx\@frontispiece\@empty\else \mbox{}\fi
21685     \else
21686         \@makeextratitle
21687     \fi
21688     \ifx\@frontispiece\@empty
21689         \ifx\@extratitle\@empty\else\next@tdpage\fi
21690     \else
21691         \next@tpage
21692         \@makefrontispiece
21693         \next@tdpage
21694     \fi
21695     \@maketitle
21696 \fi
21697 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
21698 \@thanks\global\let\@thanks\@empty
21699 \endgroup
21700 \fi
21701 \setcounter{footnote}{0}%
21702 \expandafter\ifnum \cscname scr@v@3.12\endcsname>\scr@compatibility\relax
21703     \let\thanks\relax
21704     \let\LTRthanks\relax
21705     \let\RTLthanks\relax
21706     \let\maketitle\relax
21707     \let\@maketitle\relax
21708     \global\let\@thanks\@empty
21709     \global\let\@author\@empty
21710     \global\let\@date\@empty
21711     \global\let\@title\@empty
21712     \global\let\@subtitle\@empty
21713     \global\let\@extratitle\@empty
21714     \global\let\@frontispiece\@empty
21715     \global\let\@titlehead\@empty
21716     \global\let\@subject\@empty
21717     \global\let\@publishers\@empty
21718     \global\let\@uppertitleback\@empty
21719     \global\let\@lowertitleback\@empty
21720     \global\let\@dedication\@empty
21721     \global\let\author\relax
21722     \global\let\title\relax

```



```

21723 \global\let\extratitle\relax
21724 \global\let\titlehead\relax
21725 \global\let\subject\relax
21726 \global\let\publishers\relax
21727 \global\let\uppertitleback\relax
21728 \global\let\lowertitleback\relax
21729 \global\let\dedication\relax
21730 \global\let\date\relax
21731 \fi
21732 \global\let\and\relax
21733 }%
21734 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
21735 \def\raggedpart{\if@RTL\raggedleft\else\raggedright\fi}
21736 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
21737 \renewcommand*{\thesubsection}{\thesection\@SepMark\@arabic\c@section}
21738 \renewcommand*{\thesubsubsection}{%
21739 \thesubsection\@SepMark\@arabic\c@subsubsection
21740 }
21741 \renewcommand*{\theparagraph}{\thesubsubsection\@SepMark\@arabic\c@paragraph}
21742 \renewcommand*{\thesubparagraph}{%
21743 \theparagraph\@SepMark\@arabic\c@subparagraph
21744 }
21745 \renewenvironment{thebibliography}[1]{%
21746 \if@bib@break@
21747 \bib@beginhook
21748 \else
21749 \bib@heading
21750 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
21751 \noindent\bibpreamble\par\nobreak
21752 \fi\fi
21753 \bib@beginhook
21754 \bib@before@hook
21755 \fi
21756 \renewcommand{\BreakBibliography}[1]{%
21757 \@bib@break
21758 \end{thebibliography}%
21759 \begingroup ##1\endgroup
21760 \begin{thebibliography}{#1}
21761 }%
21762 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
21763 \bidi@thebibliography@font@hook%
21764 \list{%
21765 \@biblabel{\@arabic\c@enumiv}%
21766 }{%
21767 \settowidth\labelwidth{\@biblabel{#1}}%
21768 \leftmargin\labelwidth
21769 \advance\leftmargin\labelsep
21770 \@openbib@code
21771 \if@bib@break@
21772 \edef\@tempa{%
21773 \noexpand\usecounter{enumiv}}%
21774 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
21775 }\@tempa
21776 \no@bib@break

```





```

21777 \else
21778 \usecounter{enumiv}%
21779 \fi
21780 \let\p@enumiv\@empty
21781 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
21782 }%
21783 \sloppy\clubpenalty4000 \widowpenalty4000
21784 \sfcode`\.\=\@m
21785 }{%
21786 \if@bib@break@
21787 \def\@noitemerr{%
21788 \@latex@warning{%
21789 \string\BreakBibliography\space at begin of `thebibliography'
21790 environment\MessageBreak
21791 or following \string\BreakBibliography}%
21792 }%
21793 \else
21794 \def\@noitemerr{%
21795 \@latex@warning{%
21796 Empty `thebibliography' environment or
21797 \string\BreakBibliography\MessageBreak
21798 before end of `thebibliography' environment}%
21799 }%
21800 \fi
21801 \endlist
21802 \if@bib@break@
21803 \else
21804 \bib@after@hook
21805 \let\bib@before@hook\@empty
21806 \let\bib@after@hook\@empty
21807 \fi
21808 \bib@endhook
21809 }
21810 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
21811 \renewcommand*\raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
21812 \renewcommand*\raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
21813 \renewcommand\marginline[1]{%
21814 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
21815 }
21816 \renewcommand{\@makecaption}[3]{%
21817 \cap@margin
21818 \begingroup
21819 \ifonelinecaptions
21820 \def\stepcounter##1{\advance\value{##1}\@ne}%
21821 \let\refstepcounter\stepcounter
21822 \let\label\@gobble
21823 \let\@footnotetext=\@gobble
21824 \let\@LTRfootnotetext=\@gobble
21825 \let\@RTLfootnotetext=\@gobble
21826 \let\hypertarget\@gobbletwo
21827 \edef\@xnewline{%
21828 \unexpanded{\ClassInfo{KOMAClassName}}{%
21829 Workaround for not recommended usage of \string\ or\MessageBreak
21830 \string\newline in caption text

```



```

21831         }%
21832         \hspace*{\linewidth}\hspace{1sp}%
21833     }%
21834     \unexpanded\expandafter{\@xnewline}%
21835 }%
21836 \edef\@xcentercr{%
21837     \unexpanded{\ClassInfo{\KOMAClassName}{%
21838         Workaround for not recommended usage of \string\\ or\MessageBreak
21839         \string\newline in caption text
21840     }}%
21841     \hspace*{\linewidth}\hspace{1sp}%
21842 }%
21843 \unexpanded\expandafter{\@xcentercr}%
21844 }%
21845 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
21846 \ifdim\@tempdima>\cap@width
21847     \aftergroup\scr@makemultilinecaption
21848 \else
21849     \aftergroup\scr@makesinglelinecaption
21850 \fi
21851 \else
21852     \aftergroup\scr@makemultilinecaption
21853 \fi
21854 \endgroup
21855 {#1}{#2}{#3}%
21856 }
21857 \renewcommand{\scr@makesinglelinecaption}[3]{%
21858     {%
21859         \usefontofkomafont{caption}{%
21860             \hb@xt@{\hsize{%
21861                 \cap@left
21862                 \if@RTL
21863                     \beginR
21864                     \fi
21865                 \scr@makesinglelinecaption{#1}{#2}{#3}%
21866                 \if@RTL
21867                     \endR
21868                 \fi
21869                 \cap@right
21870             }}\par\kern\dp\strutbox%
21871         }%
21872     }\kern-\dp\strutbox
21873 }
21874 \renewcommand{\@makecaption}[2]{%
21875     \if@captionabove
21876         \vskip\belowcaptionskip
21877     \else
21878         \vskip\abovecaptionskip
21879     \fi
21880     \@makecaption\@firstofone{#1}{#2}%
21881     \if@captionabove
21882         \vskip\abovecaptionskip
21883     \else
21884         \vskip\belowcaptionskip

```



```

21885 \fi
21886 }
21887
21888 \renewcommand{\scr@makesinglelinecaption}[3]{%
21889   {\usekomafont{caption}{\strut\ignorespaces
21890     #1{\usekomafont{captionlabel}{#2\captionformat}}}%
21891     \ignorespaces #3\unskip}}%
21892 }
21893
21894 \renewcommand{\scr@makemultilinecaption}[3]{%
21895   {%
21896     \usefontofkomafont{caption}{%
21897       \hb@xt@{hsize}{%
21898         \cap@left
21899         \vbox{hsize\cap@width\linewidthhsize
21900           \scr@ifundefinedorrelax{@captype}{%
21901             \ClassWarning{KOMAClassName}{%
21902               `string\caption' outside float.\MessageBreak
21903               Seems you are using `string\caption' outside a
21904               float.\MessageBreak
21905               Maybe you are using a package that uses
21906               `string\makecaption'\MessageBreak
21907               without setting `string\@captype' before.\MessageBreak
21908               Because I cannot detect the caption type, I'm using\MessageBreak
21909               the empty one.%
21910             }%
21911             \let\@captype\@empty
21912           }{}%
21913           \scr@ifundefinedorrelax{ragged\@captype}{\raggedcaption}{%
21914             \@nameuse{ragged\@captype}{caption}%
21915           }%
21916           \ifdofullc@p
21917             \@hangfrom{%
21918               \strut
21919               \scr@smashdp{%
21920                 #1{%
21921                   \usekomafont{caption}{%
21922                     \usekomafont{captionlabel}{#2\captionformat}%
21923                   }%
21924                 }%
21925               }%
21926             }%
21927             {\usekomafont{caption}{#3\scr@endstrut}}\par}%
21928           \else
21929             \ifdim\cap@indent<\z@
21930               \strut
21931               #1{%
21932                 {\usekomafont{caption}{%
21933                   \usekomafont{captionlabel}{#2\captionformat}%
21934                 }%
21935               }\par}%
21936             \noindent{{\usekomafont{caption}{%
21937               \hspace*{-\cap@indent}#3\scr@endstrut
21938             }}\par}%

```



```

21939         \else
21940         \if@capbreak
21941         \strut
21942         #1{%
21943         {\usekomafont{caption}{%
21944         \usekomafont{captionlabel}{#2\captionformat}}%
21945         }%
21946         }\par}%
21947         \noindent\@hangfrom{\hspace*{\cap@indent}}%
21948         {\usekomafont{caption}{#3\scr@endstrut}}\par}%
21949     \else
21950     \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
21951     {%
21952     \hspace{-\cap@indent}%
21953     \scr@smashdp{%
21954     #1{\usekomafont{caption}{%
21955     \usekomafont{captionlabel}{#2\captionformat}}%
21956     }%
21957     }%
21958     }%
21959     {\usekomafont{caption}{#3\scr@endstrut}}\par}%
21960     }%
21961     \fi
21962     \fi
21963     \fi
21964     }%
21965     \cap@right
21966     }\par\kern\dp\strutbox
21967     }%
21968     }\kern-\dp\strutbox
21969 }
21970
21971 \bidi@AfterFile{longtable-xetex-bidi.def}{%
21972 \if@komalongtable
21973 \renewcommand{\LT@makecaption}[3]{%
21974 \noalign{%
21975 \if@captionabove
21976 \vskip\belowcaptionskip
21977 \else
21978 \vskip\abovecaptionskip
21979 \fi
21980 }%
21981 \LT@mcol\LT@cols c{%
21982 \hbox to\z@{\hss\parbox[t]{\linewidth{%
21983 \def\@capytype{table}%
21984 \@makecaption{#1}{#2}{#3}%
21985 \endgraf
21986 \if@captionabove
21987 \vskip\abovecaptionskip
21988 \else
21989 \vskip\belowcaptionskip
21990 \fi
21991 }%
21992 \hss

```



```

21993     }%
21994   }%
21995 }%
21996 \renewcommand*{\scr@LT@array}{}%
21997 \let\scr@LT@array=\LT@array
21998 \renewcommand*{\LT@array}{%
21999   \let\scr@caption=\LT@caption
22000   \def\captionabove{\noalign{\global\@captionabovetrue}%
22001     \scr@caption}%
22002   \def\captionbelow{\noalign{\global\@captionabovefalse}%
22003     \scr@caption}%
22004   \if@tablecaptionabove
22005     \let\LT@caption=\captionabove
22006   \else
22007     \let\LT@caption=\captionbelow
22008   \fi
22009   \scr@LT@array
22010 }%
22011 \ClassInfo{\KOMAClassName}{%
22012   longtable captions redefined%
22013 }%
22014 \fi
22015 }
22016
22017 \CloneTOCEntryStyle{tocline}{part}
22018 \TOCEntryStyleStartInitCode{part}{%
22019   \expandafter\renewcommand%
22020   \csname scr@tso@#1@linefill\endcsname{\hfill}%
22021   \expandafter\renewcommand%
22022   \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22023   \expandafter\renewcommand%
22024   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22025     {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%
22026   \expandafter\renewcommand\expandafter*%
22027   \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
22028 }
22029
22030 \CloneTOCEntryStyle{tocline}{section}
22031 \TOCEntryStyleStartInitCode{section}{%
22032   \expandafter\renewcommand%
22033   \csname scr@tso@#1@linefill\endcsname{%
22034     \if@sectionentrywithdots
22035       {\usekomafont{sectionentrydots}{\TOCLineLeaderFill}}\relax
22036     \else
22037       \hfill
22038     \fi
22039   }%
22040   \expandafter\renewcommand%
22041   \csname scr@tso@#1@entryformat\endcsname{\usekomafont{sectionentry}}%
22042   \expandafter\renewcommand%
22043   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\usekomafont{sectionentry}{\usekomafont{
22044     \expandafter\renewcommand\expandafter*%
22045     \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
22046 }

```



```

22047
22048 \CloneTOCEntryStyle{tocline}{subsection}
22049 \TOCEntryStyleStartInitCode{subsection}{%
22050   \expandafter\renewcommand%
22051   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22052   \expandafter\renewcommand%
22053   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22054     {\normalfont\normalcolor ##1}}%
22055 }
22056
22057 \CloneTOCEntryStyle{subsection}{default}
22058
22059 \DeclareSectionCommand[%
22060   style=section,%
22061   level=1,%
22062   indent=\z@,%
22063   beforekip=-3.5ex \@plus -1ex \@minus -.2ex,%
22064   afterskip=2.3ex \@plus .2ex,%
22065   tocstyle=section,%
22066   tocindent=0pt,%
22067   tocnumwidth=1.5em%
22068 ]{section}
22069 \DeclareSectionCommand[%
22070   style=part,%
22071   level=\z@,%
22072   tocstyle=part,%
22073   toclevel=\m@ne,%
22074   tocindent=\z@,%
22075   tocnumwidth=2em%
22076 ]{part}
22077 \DeclareSectionCommand[%
22078   style=section,%
22079   level=2,%
22080   indent=\z@,%
22081   beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
22082   afterskip=1.5ex \@plus .2ex,%
22083   tocstyle=subsection,%
22084   tocindent=1.5em,%
22085   tocnumwidth=2.3em%
22086 ]{subsection}
22087 \DeclareSectionCommand[%
22088   style=section,%
22089   level=3,%
22090   indent=\z@,%
22091   beforekip=-3.25ex \@plus -1ex \@minus -.2ex,%
22092   afterskip=1.5ex \@plus .2ex,%
22093   tocstyle=subsection,%
22094   tocindent=3.8em,%
22095   tocnumwidth=3.2em%
22096 ]{subsubsection}
22097 \DeclareSectionCommand[%
22098   style=section,%
22099   level=4,%
22100   indent=\z@,%

```



```

22101 beforeskip=3.25ex \@plus1ex \@minus.2ex,%
22102 afterskip=-1em,%
22103 tocstyle=subsection,%
22104 tocindentfollows=subsubsection,%
22105 tocindent=7.0em,%
22106 tocnumwidth=4.1em%
22107 ]{paragraph}
22108 \DeclareSectionCommand[%
22109   style=section,%
22110   level=5,%
22111   indent=\scr@parindent,%
22112   beforeskip=3.25ex \@plus1ex \@minus.2ex,%
22113   afterskip=-1em,%
22114   tocstyle=subsection,%
22115   tocindent=10em,%
22116   tocnumwidth=5em%
22117 ]{subparagraph}

```

## 141 File scrbook-xetex-bidi.def

```

22118 \ProvidesFile{scrbook-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrbook class for
22119 \newcommand{\scr@saved@LTRfootnotetext}{}
22120 \newcommand{\scr@saved@RTLfootnotetext}{}
22121 \let\scr@saved@footnotetext\@footnotetext
22122 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
22123 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
22124 \renewcommand{\@footnotetext}[1]{%
22125   \scr@saved@footnotetext{#1}%
22126   \csname FN@mfb@prepare\endcsname
22127 }
22128 \renewcommand{\@LTRfootnotetext}[1]{%
22129   \scr@saved@LTRfootnotetext{#1}%
22130   \csname FN@mfb@prepare\endcsname
22131 }
22132 \renewcommand{\@RTLfootnotetext}[1]{%
22133   \scr@saved@RTLfootnotetext{#1}%
22134   \csname FN@mfb@prepare\endcsname
22135 }
22136 \renewcommand\deffootnote[4][1]{%
22137   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
22138     \long\def\@makefntext##1{%
22139       \ExecuteDoHook{footnote/text/begin}%
22140       \raggedfootnote
22141       \if@RTL
22142         \rightskip
22143       \else
22144         \leftskip
22145       \fi
22146       #2
22147     \l@addto@macro\@trivlist{%
22148       \ifnum\@listdepth=\@ne\advance
22149         \if@RTL
22150           \rightmargin #2\relax
22151           \else

```



```

22152         \leftmargin #2\relax
22153     \fi
22154 \fi
22155 }%
22156 \parindent #3\noindent
22157 \IfArgIsEmpty{#1}{\{%
22158     \hskip \dimexpr #1-#2\relax
22159 }%
22160 \ftn@font\hbox to \z@{\hss\@@makefnmark}##1%
22161 \ExecuteDoHook{footnote/text/end}%
22162 }%
22163 \else
22164 \ClassInfo{\KOMAClassName}{%
22165     Using old \string\@makefnmark\space due to compatibility
22166     level\MessageBreak
22167     less than 3.22}%
22168 \long\def\@makefnmark##1{%
22169     \setlength{\@tempdimc}{#3}%
22170     \def\@tempa{#1}\ifx\@tempa\@empty
22171         \@setpar{\@par
22172             \@tempdima = \hspace
22173             \addtolength{\@tempdima}{-#2}%
22174             \if@RTL
22175                 \parshape \@ne \z@ \@tempdima
22176             \else
22177                 \parshape \@ne #2 \@tempdima
22178             \fi
22179         }%
22180     \else
22181         \addtolength{\@tempdimc}{#2}%
22182         \addtolength{\@tempdimc}{-#1}%
22183         \@setpar{\@par
22184             \@tempdima = \hspace
22185             \addtolength{\@tempdima}{-#1}%
22186             \@tempdimb = \hspace
22187             \addtolength{\@tempdimb}{-#2}%
22188             \if@RTL
22189                 \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
22190             \else
22191                 \parshape \tw@ #1 \@tempdima #2 \@tempdimb
22192             \fi
22193         }%
22194     \fi
22195 \par
22196 \parindent\@tempdimc\noindent
22197 \ftn@font\hbox to \z@{\hss\@@makefnmark}##1%
22198 }%
22199 \fi
22200 \def\@@makefnmark{\hbox{\ftn@font{#4}}}%
22201 }
22202 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
22203 \renewcommand*\left@footnoterule{%
22204     \normalsize\ftn@rule@test@values
22205     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax

```





```

22206 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22207 {\usekomafont{footnoterule}{%
22208 \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
22209 \kern 2.6\p@}
22210 \renewcommand*\right@footnoterule{%
22211 \normalsize\ftn@rule@test@values
22212 \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22213 \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22214 {\usekomafont{footnoterule}{%
22215 \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
22216 \kern 2.6\p@}
22217 \renewcommand*\maketitle[1][1]{%
22218 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
22219 \else
22220 \def\and{%
22221 \end{tabular}%
22222 \hskip 1em \@plus.17fil%
22223 \begin{tabular}[t]{c}%
22224 }%
22225 \fi
22226 \if@titlepage
22227 \begin{titlepage}
22228 \setcounter{page}{%
22229 #1%
22230 }%
22231 \if@titlepageiscoverpage
22232 \edef\tITLEPAGE@restore{%
22233 \noexpand\endgroup
22234 \noexpand\global\noexpand\@colht\the\@colht
22235 \noexpand\global\noexpand\@colroom\the\@colroom
22236 \noexpand\global\vsizethe\vsizethe
22237 \noexpand\global\noexpand\@titlepageiscoverpagefalse
22238 \noexpand\let\noexpand\tITLEPAGE@restore\noexpand\relax
22239 }%
22240 \begingroup
22241 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
22242 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
22243 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
22244 \textwidth=\dimexpr
22245 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
22246 \textheight=\dimexpr
22247 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
22248 \headheight=0pt
22249 \headsep=0pt
22250 \footskip=\baselineskip
22251 \@colht=\textheight
22252 \@colroom=\textheight
22253 \vsizethe\textheight
22254 \columnwidth=\textwidth
22255 \hsizethe\columnwidth
22256 \linewidth=\hsizethe
22257 \else
22258 \let\tITLEPAGE@restore\relax
22259 \fi

```



```

22260 \let\footnotesize\small
22261 \let\right@footnoterule\relax
22262 \let\left@footnoterule\relax
22263 \let\textwidth@footnoterule\relax
22264 \let\footnote\thanks
22265 \let\LTRfootnote\LTRthanks
22266 \let\RTLfootnote\RTLthanks
22267 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
22268 \let\@oldmakefnmark\@makefnmark
22269 \renewcommand*\@makefnmark{\rlap\@oldmakefnmark}%
22270 \ifx\@extratitle\@empty
22271 \ifx\@frontispiece\@empty
22272 \else
22273 \if@twoside\mbox{}\next@tpage\fi
22274 \noindent\@frontispiece\next@tdpage
22275 \fi
22276 \else
22277 \noindent\@extratitle
22278 \ifx\@frontispiece\@empty
22279 \else
22280 \next@tpage
22281 \noindent\@frontispiece
22282 \fi
22283 \next@tdpage
22284 \fi
22285 \setparsizes{\z@}{\z@}{\z@\@plus 1fil}\par@updaterelative
22286 \ifx\@titlehead\@empty \else
22287 \begin{minipage}[t]{\textwidth}%
22288 \usekomafont{titlehead}{\@titlehead\par}%
22289 \end{minipage}\par
22290 \fi
22291 \null\vfill
22292 \begin{center}
22293 \ifx\@subject\@empty \else
22294 {\usekomafont{subject}{\@subject\par}}%
22295 \vskip 3em
22296 \fi
22297 {\usekomafont{title}{\huge \@title\par}}%
22298 \vskip 1em
22299 {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
22300 \vskip 2em
22301 {%
22302 \usekomafont{author}{%
22303 \lineskip 0.75em
22304 \begin{tabular}[t]{c}
22305 \@author
22306 \end{tabular}\par
22307 }%
22308 }%
22309 \vskip 1.5em
22310 {\usekomafont{date}{\@date \par}}%
22311 \vskip \z@ \@plus3fill
22312 {\usekomafont{publishers}{\@publishers \par}}%
22313 \vskip 3em

```



```

22314 \end{center}\par
22315 \@thanks\global\let\@thanks\@empty
22316 \vfill\null
22317 \if@twoside
22318 \@tempwattrue
22319 \expandafter\ifnum \@nameuse{scr@v@3.12}>\scr@compatibility\relax
22320 \else
22321 \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
22322 \@tempwafalse
22323 \fi\fi
22324 \fi
22325 \if@tempswa
22326 \next@tpage
22327 \begin{minipage}[t]{\textwidth}
22328 \@uppertitleback
22329 \end{minipage}\par
22330 \vfill
22331 \begin{minipage}[b]{\textwidth}
22332 \@lowertitleback
22333 \end{minipage}\par
22334 \@thanks\global\let\@thanks\@empty
22335 \fi
22336 \else
22337 \ifx\@uppertitleback\@empty\else
22338 \ClassWarning{\KOMAClassName}{%
22339 non empty \string\uppertitleback\space ignored
22340 by \string\maketitle\MessageBreak
22341 in `twoside=false' mode%
22342 }%
22343 \fi
22344 \ifx\@lowertitleback\@empty\else
22345 \ClassWarning{\KOMAClassName}{%
22346 non empty \string\lowertitleback\space ignored
22347 by \string\maketitle\MessageBreak
22348 in `twoside=false' mode%
22349 }%
22350 \fi
22351 \fi
22352 \ifx\@dedication\@empty
22353 \else
22354 \next@tdpage\null\vfill
22355 {\centering\usekomafont{dedication}{\@dedication \par}}%
22356 \vskip \z@ \@plus3fill
22357 \@thanks\global\let\@thanks\@empty
22358 \cleardoubleemptypage
22359 \fi
22360 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
22361 \end{titlepage}
22362 \else
22363 \par
22364 \@tempcnta=%
22365 #1%
22366 \relax\ifnum\@tempcnta=1\else
22367 \ClassWarning{\KOMAClassName}{%

```



```

22368     Optional argument of \string\maketitle\space ignored\MessageBreak
22369     in `titlepage=false' mode%
22370   }%
22371 \fi
22372 \ifx\@uppertitleback\@empty\else
22373   \ClassWarning{\KOMAClassName}{%
22374     non empty \string\uppertitleback\space ignored
22375     by \string\maketitle\MessageBreak
22376     in `titlepage=false' mode%
22377   }%
22378 \fi
22379 \ifx\@lowertitleback\@empty\else
22380   \ClassWarning{\KOMAClassName}{%
22381     non empty \string\lowertitleback\space ignored
22382     by \string\maketitle\MessageBreak
22383     in `titlepage=false' mode%
22384   }%
22385 \fi
22386 \begingroup
22387   \let\titlepage@restore\relax
22388   \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
22389   \let\@oldmakefnmark\@makefnmark
22390   \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
22391   \next@tdpage
22392   \if@twocolumn
22393     \ifnum \col@number=\@one
22394       \ifx\@extratitle\@empty
22395         \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
22396       \else
22397         \@makeextratitle
22398       \fi
22399       \ifx\@frontispiece\@empty
22400         \ifx\@extratitle\@empty\else\next@tdpage\fi
22401       \else
22402         \next@tpage
22403         \@makefrontispiece
22404         \next@tdpage
22405       \fi
22406       \@maketitle
22407     \else
22408       \ifx\@extratitle\@empty
22409         \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
22410       \else
22411         \twocolumn[\@makeextratitle]%
22412       \fi
22413       \ifx\@frontispiece\@empty
22414         \ifx\@extratitle\@empty\else\next@tdpage\fi
22415       \else
22416         \next@tpage
22417         \twocolumn[\@makefrontispiece]%
22418         \next@tdpage
22419       \fi
22420       \twocolumn[\@maketitle]%
22421 \fi

```



```

22422 \else
22423 \ifx\@extratitle\@empty
22424 \ifx\@frontispiece\@empty\else \mbox{}\fi
22425 \else
22426 \@makeextratitle
22427 \fi
22428 \ifx\@frontispiece\@empty
22429 \ifx\@extratitle\@empty\else\next@tdpage\fi
22430 \else
22431 \next@tpage
22432 \@makefrontispiece
22433 \next@tdpage
22434 \fi
22435 \@maketitle
22436 \fi
22437 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
22438 \@thanks\global\let\@thanks\@empty
22439 \endgroup
22440 \fi
22441 \setcounter{footnote}{0}%
22442 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
22443 \let\thanks\relax
22444 \let\LTRthanks\relax
22445 \let\RTLthanks\relax
22446 \let\maketitle\relax
22447 \let\@maketitle\relax
22448 \global\let\@thanks\@empty
22449 \global\let\@author\@empty
22450 \global\let\@date\@empty
22451 \global\let\@title\@empty
22452 \global\let\@subtitle\@empty
22453 \global\let\@extratitle\@empty
22454 \global\let\@frontispiece\@empty
22455 \global\let\@titlehead\@empty
22456 \global\let\@subject\@empty
22457 \global\let\@publishers\@empty
22458 \global\let\@uppertitleback\@empty
22459 \global\let\@lowertitleback\@empty
22460 \global\let\@dedication\@empty
22461 \global\let\author\relax
22462 \global\let\title\relax
22463 \global\let\extratitle\relax
22464 \global\let\titlehead\relax
22465 \global\let\subject\relax
22466 \global\let\publishers\relax
22467 \global\let\uppertitleback\relax
22468 \global\let\lowertitleback\relax
22469 \global\let\dedication\relax
22470 \global\let\date\relax
22471 \fi
22472 \global\let\and\relax
22473 }%
22474 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
22475 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}

```



```

22476 \renewcommand*\thesection{%
22477   \expandafter\ifnum\scr@v@is@gt{2.97d}%
22478     \if@mainmatter\thechapter\@SepMark\fi
22479   \else
22480     \thechapter\@SepMark%
22481   \fi
22482   \@arabic\c@section
22483 }
22484 \renewcommand*\thesubsection{\thechapter\@SepMark\@arabic\c@subsection}
22485 \renewcommand*\thesubsubsection{%
22486   \thesubsection\@SepMark\@arabic\c@subsubsection
22487 }
22488 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
22489 \renewcommand*\thesubparagraph{%
22490   \theparagraph\@SepMark\@arabic\c@subparagraph
22491 }
22492 \expandafter\ifnum\scr@v@is@le{2.97d}%
22493   \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
22494 \fi
22495 \expandafter\ifnum\scr@v@is@le{2.97d}%
22496   \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
22497 \fi
22498 \renewcommand*\theequation{%
22499   \expandafter\ifnum\scr@v@is@gt{2.97d}%
22500     \if@mainmatter\thechapter\@SepMark\fi
22501   \else
22502     \thechapter\@SepMark%
22503   \fi
22504   \@arabic\c@equation
22505 }
22506 \renewenvironment{thebibliography}[1]{%
22507   \if@bib@break@
22508     \bib@beginhook
22509   \else
22510     \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
22511       \setchapterpreamble{\bibpreamble}%
22512     \fi\fi
22513     \bib@heading
22514     \bib@beginhook
22515     \bib@before@hook
22516   \fi
22517   \renewcommand{\BreakBibliography}[1]{%
22518     \@bib@break
22519     \end{thebibliography}%
22520     \begin{group} ##1\end{group}
22521     \begin{thebibliography}{#1}
22522   }%
22523   \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
22524   \bidi@thebibliography@font@hook%
22525   \list{%
22526     \@biblabel{\@arabic\c@enumiv}%
22527   }{%
22528     \settowidth\labelwidth{\@biblabel{#1}}%
22529     \leftmargin\labelwidth

```



```

22530 \advance\leftmargin\labelsep
22531 \@openbib@code
22532 \if@bib@break@
22533 \edef\@tempa{%
22534 \noexpand\usecounter{enumiv}}%
22535 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
22536 }\@tempa
22537 \no@bib@break
22538 \else
22539 \usecounter{enumiv}%
22540 \fi
22541 \let\p@enumiv\@empty
22542 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
22543 }%
22544 \sloppy\clubpenalty4000 \widowpenalty4000
22545 \sfcode`\.=\@m
22546 }{%
22547 \if@bib@break@
22548 \def\@noitemerr{%
22549 \@latex@warning{%
22550 \string\BreakBibliography\space at begin of `thebibliography'
22551 environment\MessageBreak
22552 or following \string\BreakBibliography}%
22553 }%
22554 \else
22555 \def\@noitemerr{%
22556 \@latex@warning{%
22557 Empty `thebibliography' environment or
22558 \string\BreakBibliography\MessageBreak
22559 before end of `thebibliography' environment}%
22560 }%
22561 \fi
22562 \endlist
22563 \if@bib@break@
22564 \else
22565 \bib@after@hook
22566 \let\bib@before@hook\@empty
22567 \let\bib@after@hook\@empty
22568 \fi
22569 \bib@endhook
22570 }
22571 \renewcommand*\@raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}
22572 \renewcommand*\@raggeddictumtext{\if@RTL\raggedleft\else\raggedright\fi}
22573 \renewcommand*\@raggeddictumauthor{\if@RTL\raggedright\else\raggedleft\fi}
22574 \renewcommand\marginline[1]{%
22575 \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright
22576 }
22577 \renewcommand{\@makecaption}[3]{%
22578 \cap@margin
22579 \begingroup
22580 \ifonelinecaptions
22581 \def\stepcounter##1{\advance\value{##1}\@ne}%
22582 \let\refstepcounter\stepcounter
22583 \let\label\@gobble

```



```

22584 \let\@footnotetext=\@gobble
22585 \let\@LTRfootnotetext=\@gobble
22586 \let\@RTLfootnotetext=\@gobble
22587 \let\hypertarget\@gobbletwo
22588 \edef\@xnewline{%
22589   \unexpanded{\ClassInfo{\KOMAClassName}{%
22590     Workaround for not recommended usage of \string\\ or\MessageBreak
22591     \string\newline in caption text
22592   }}%
22593   \hspace*{\linewidth}\hspace{1sp}%
22594 }%
22595 \unexpanded\expandafter{\@xnewline}%
22596 }%
22597 \edef\@xcentercr{%
22598   \unexpanded{\ClassInfo{\KOMAClassName}{%
22599     Workaround for not recommended usage of \string\\ or\MessageBreak
22600     \string\newline in caption text
22601   }}%
22602   \hspace*{\linewidth}\hspace{1sp}%
22603 }%
22604 \unexpanded\expandafter{\@xcentercr}%
22605 }%
22606 \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
22607 \ifdim\@tempdima>\cap@width
22608   \aftergroup\scr@makemultilinecaption
22609 \else
22610   \aftergroup\scr@makesinglelinecaption
22611 \fi
22612 \else
22613   \aftergroup\scr@makemultilinecaption
22614 \fi
22615 \endgroup
22616 {#1}{#2}{#3}%
22617 }
22618 \renewcommand{\scr@makesinglelinecaption}[3]{%
22619   {%
22620     \usefontofkomafont{caption}{%
22621       \hb@xt@{\hsize{%
22622         \cap@left
22623         \if@RTL
22624           \beginR
22625         \fi
22626         \scr@makesinglelinecaption{#1}{#2}{#3}%
22627         \if@RTL
22628           \endR
22629         \fi
22630         \cap@right
22631       }}\par\kern\dp\strutbox%
22632     }%
22633   }\kern-\dp\strutbox
22634 }
22635 \renewcommand{\@makecaption}[2]{%
22636   \if@captionabove
22637     \vskip\belowcaptionskip

```





```

22638 \else
22639 \vskip\abovecaptionskip
22640 \fi
22641 \@makecaption\@firstofone{#1}{#2}%
22642 \if@captionabove
22643 \vskip\abovecaptionskip
22644 \else
22645 \vskip\belowcaptionskip
22646 \fi
22647 }
22648
22649 \renewcommand{\scr@makesinglelinecaption}[3]{%
22650 {\usekomafont{caption}{\strut\ignorespaces
22651 #1{\usekomafont{captionlabel}{#2\captionformat}}}%
22652 \ignorespaces #3\unskip}}%
22653 }
22654
22655 \renewcommand{\scr@makemultilinecaption}[3]{%
22656 {%
22657 \usefontofkomafont{caption}{%
22658 \hb@xt@{hsize}{%
22659 \cap@left
22660 \vbox{hsize\cap@width\linewidthhsize
22661 \scr@ifundefinedorrelax{@captype}{%
22662 \ClassWarning{\KOMAClassName}{%
22663 `string\caption' outside float.\MessageBreak
22664 Seems you are using `string\caption' outside a
22665 float.\MessageBreak
22666 Maybe you are using a package that uses
22667 `string\@makecaption'\MessageBreak
22668 without setting `string\@captype' before.\MessageBreak
22669 Because I cannot detect the caption type, I'm using\MessageBreak
22670 the empty one.%
22671 }%
22672 \let\@captype\@empty
22673 }{}%
22674 \scr@ifundefinedorrelax{ragged\@captype caption}{\raggedcaption}{%
22675 \@nameuse{ragged\@captype caption}%
22676 }%
22677 \ifdofullc@p
22678 \@hangfrom{%
22679 \strut
22680 \scr@smashdp{%
22681 #1{%
22682 \usekomafont{caption}{%
22683 \usekomafont{captionlabel}{#2\captionformat}%
22684 }%
22685 }%
22686 }%
22687 }%
22688 {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22689 \else
22690 \ifdim\cap@indent<\z@
22691 \strut

```



```

22692         #1{%
22693             {\usekomafont{caption}{%
22694                 \usekomafont{captionlabel}{#2\captionformat}%
22695             }%
22696         }\par}%
22697         \noindent{{\usekomafont{caption}{%
22698             \hspace*{-\cap@indent}#3\scr@endstrut
22699         }}\par}%
22700     \else
22701         \if@capbreak
22702             \strut
22703             #1{%
22704                 {\usekomafont{caption}{%
22705                     \usekomafont{captionlabel}{#2\captionformat}%
22706                 }
22707             }\par}%
22708             \noindent\@hangfrom{\hspace*{\cap@indent}}%
22709             {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22710         \else
22711             \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
22712             {%
22713                 \hspace*{-\cap@indent}%
22714                 \scr@smashdp{%
22715                     #1{\usekomafont{caption}{%
22716                         \usekomafont{captionlabel}{#2\captionformat}%
22717                     }%
22718                 }%
22719             }%
22720             {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
22721         }%
22722         \fi
22723     \fi
22724 \fi
22725 }%
22726 \cap@right
22727 }\par\kern\dp\strutbox
22728 }%
22729 }\kern-\dp\strutbox
22730 }
22731
22732
22733 \bidi@AfterFile{longtable-xetex-bidi.def}{%
22734     \if@komalongtable
22735         \renewcommand{\LT@makecaption}[3]{%
22736             \noalign{%
22737                 \if@captionabove
22738                     \vskip\belowcaptionskip
22739                 \else
22740                     \vskip\abovecaptionskip
22741                 \fi
22742             }%
22743             \LT@mcol\LT@cols c{%
22744                 \hbox to\z@{\hss\parbox[t]{\linewidth}{%
22745                     \def\capttype{table}%

```



```

22746         \@@makecaption{#1}{#2}{#3}%
22747         \endgraf
22748         \if@captionabove
22749             \vskip\abovecaptionskip
22750         \else
22751             \vskip\belowcaptionskip
22752         \fi
22753     }%
22754     \hss
22755 }%
22756 }%
22757 }%
22758 \renewcommand*{\scr@LT@array}{}%
22759 \let\scr@LT@array=\LT@array
22760 \renewcommand*{\LT@array}{%
22761     \let\scr@caption=\LT@caption
22762     \def\captionabove{\noalign{\global\@captionabovetrue}%
22763         \scr@caption}%
22764     \def\captionbelow{\noalign{\global\@captionabovetrue}%
22765         \scr@caption}%
22766     \if@tablecaptionabove
22767         \let\LT@caption=\captionabove
22768     \else
22769         \let\LT@caption=\captionbelow
22770     \fi
22771     \scr@LT@array
22772 }%
22773 \ClassInfo{\KOMAClassName}{%
22774     longtable captions redefined%
22775 }%
22776 \fi
22777 }
22778
22779 \CloneTOCEntryStyle{tocline}{part}
22780 \TOCEntryStyleStartInitCode{part}{%
22781     \expandafter\renewcommand%
22782     \csname scr@tso@#1@linefill\endcsname{\hfill}%
22783     \expandafter\renewcommand%
22784     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
22785     \expandafter\renewcommand%
22786     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22787         {\usekomafont{partentry}{\usekomafont{partentry}pagenumber}{##1}}}%
22788     \expandafter\renewcommand\expandafter*%
22789     \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p}%
22790 }
22791
22792 \CloneTOCEntryStyle{tocline}{chapter}
22793 \TOCEntryStyleStartInitCode{chapter}{%
22794     \expandafter\renewcommand%
22795     \csname scr@tso@#1@linefill\endcsname{%
22796         \if@chapterentrywithdots
22797             {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
22798         \else
22799             \hfill

```



```

22800 \fi
22801 }%
22802 \expandafter\renewcommand%
22803 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}%
22804 \expandafter\renewcommand%
22805 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22806   {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
22807 \expandafter\renewcommand\expandafter*%
22808 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p0}%
22809 }
22810
22811 \CloneTOCEntryStyle{tocline}{section}
22812 \TOCEntryStyleStartInitCode{section}{%
22813   \expandafter\renewcommand%
22814   \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
22815   \expandafter\renewcommand%
22816   \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
22817     {\normalfont\normalcolor ##1}}%
22818 }
22819
22820 \CloneTOCEntryStyle{section}{default}
22821
22822 \DeclareSectionCommand[%
22823   style=chapter,%
22824   level=\z@,%
22825   pagestyle=plain,%
22826   tocstyle=chapter,%
22827   tocindent=\z@,%
22828   tocnumwidth=1.5em%
22829 ]{chapter}
22830 \DeclareSectionCommand[%
22831   style=section,%
22832   level=1,%
22833   indent=\z@,%
22834   beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
22835   afterskip=2.3ex \@plus.2ex,%
22836   tocstyle=section,%
22837   tocindentfollows=chapter,%
22838   tocindent=1.5em,%
22839   tocnumwidth=2.3em%
22840 ]{section}
22841 \DeclareSectionCommand[%
22842   style=part,%
22843   level=\m@ne,%
22844   pagestyle=plain,%
22845   tocstyle=part,%
22846   toclevel=\m@ne,%
22847   tocindent=\z@,%
22848   tocnumwidth=2em%
22849 ]{part}
22850 \DeclareSectionCommand[%
22851   style=section,%
22852   level=2,%
22853   indent=\z@,%

```



```

22854 beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
22855 afterskip=1.5ex \@plus .2ex,%
22856 tocstyle=section,%
22857 tocindent=3.8em,%
22858 tocnumwidth=3.2em%
22859 ]{subsection}
22860 \DeclareSectionCommand[%
22861   style=section,%
22862   level=3,%
22863   indent=\z@,%
22864   beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
22865   afterskip=1.5ex \@plus .2ex,%
22866   tocstyle=section,%
22867   tocindent=7.0em,%
22868   tocnumwidth=4.1em%
22869 ]{subsubsection}
22870 \DeclareSectionCommand[%
22871   style=section,%
22872   level=4,%
22873   indent=\z@,%
22874   beforeskip=3.25ex \@plus1ex \@minus.2ex,%
22875   afterskip=-1em,%
22876   tocindentfollows=subsubsection,%
22877   tocstyle=section,%
22878   tocindent=10em,%
22879   tocnumwidth=5em%
22880 ]{paragraph}
22881 \DeclareSectionCommand[%
22882   style=section,%
22883   level=5,%
22884   indent=\scr@parindent,%
22885   beforeskip=3.25ex \@plus1ex \@minus .2ex,%
22886   afterskip=-1em,%
22887   tocstyle=section,%
22888   tocindent=12em,%
22889   tocnumwidth=6em%
22890 ]{subparagraph}

```

## 142 File `scrreprt-xetex-bidi.def`

```

22891 \ProvidesFile{scrreprt-xetex-bidi.def}[2022/05/27 v1.3 bidi adaptations for scrreprt class f
22892 \newcommand{\scr@saved@LTRfootnotetext}{}
22893 \newcommand{\scr@saved@RTLfootnotetext}{}
22894 \let\scr@saved@footnotetext\@footnotetext
22895 \let\scr@saved@LTRfootnotetext\@LTRfootnotetext
22896 \let\scr@saved@RTLfootnotetext\@RTLfootnotetext
22897 \renewcommand{\@footnotetext}[1]{%
22898   \scr@saved@footnotetext{#1}%
22899   \csname FN@mfb@prepare\endcsname
22900 }
22901 \renewcommand{\@LTRfootnotetext}[1]{%
22902   \scr@saved@LTRfootnotetext{#1}%
22903   \csname FN@mfb@prepare\endcsname
22904 }

```



```

22905 \renewcommand{\@RTLfootnotetext}[1]{%
22906   \scr@saved@RTLfootnotetext{#1}%
22907   \csname FN@mfb@prepare\endcsname
22908 }
22909 \renewcommand\deffootnote[4][1]{%
22910   \expandafter\ifnum\scr@v@is@ge{3.22}\relax
22911     \long\def\@makefntext##1{%
22912       \ExecuteDoHook{footnote/text/begin}%
22913       \raggedfootnote
22914       \if@RTL
22915         \rightskip
22916       \else
22917         \leftskip
22918       \fi
22919       #2
22920       \l@addto@macro\@trivlist{%
22921         \ifnum\@listdepth=\@ne
22922           \if@RTL
22923             \advance\rightmargin #2\relax
22924           \else
22925             \advance\leftmargin #2\relax
22926           \fi
22927         \fi
22928       }%
22929       \parindent #3\noindent
22930       \IfArgIsEmpty{#1}{-}{%
22931         \hskip \dimexpr #1-#2\relax
22932       }%
22933       \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22934       \ExecuteDoHook{footnote/text/end}%
22935     }%
22936   \else
22937     \ClassInfo{\KOMAClassName}{%
22938       Using old \string\@makefntext\space due to compatibility
22939       level\MessageBreak
22940       less than 3.22}%
22941     \long\def\@makefntext##1{%
22942       \setlength{\@tempdimc}{#3}%
22943       \def\@tempa{#1}\ifx\@tempa\@empty
22944         \@setpar{\@par
22945           \@tempdima = \hsize
22946           \addtolength{\@tempdima}{-#2}%
22947           \if@RTL
22948             \parshape \@ne \z@ \@tempdima
22949           \else
22950             \parshape \@ne #2 \@tempdima
22951           \fi
22952         }%
22953       \else
22954         \addtolength{\@tempdimc}{#2}%
22955         \addtolength{\@tempdimc}{-#1}%
22956         \@setpar{\@par
22957           \@tempdima = \hsize
22958           \addtolength{\@tempdima}{-#1}%

```



```

22959         \@tempdimb = \hsize
22960         \addtolength{\@tempdimb}{-#2}%
22961         \if@RTL
22962             \parshape \tw@ \z@ \@tempdima \z@ \@tempdimb
22963         \else
22964             \parshape \tw@ #1 \@tempdima #2 \@tempdimb
22965         \fi
22966     }%
22967 \fi
22968 \par
22969 \parindent\@tempdimc\noindent
22970 \ftn@font\hbox to \z@{\hss\@makefnmark}##1%
22971 }%
22972 \fi
22973 \def\@makefnmark{\hbox{\ftn@font{#4}}}%
22974 }
22975 \deffootnote[1em]{1.5em}{1em}{\textsuperscript{\thefootnotemark}}
22976 \renewcommand*\left@footnoterule{%
22977     \normalsize\ftn@rule@test@values
22978     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22979     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22980     {\usekomafont{footnoterule}{%
22981         \hrule \@height\ftn@rule@height \@width\ftn@rule@width}}%
22982     \kern 2.6\p@}
22983 \renewcommand*\right@footnoterule{%
22984     \normalsize\ftn@rule@test@values
22985     \kern-\dimexpr 2.6\p@+\ftn@rule@height\relax
22986     \ifx\@textbottom\relax\else\vskip \z@ \@plus.05fil\fi
22987     {\usekomafont{footnoterule}{%
22988         \hbox to \columnwidth{\hskip \dimexpr\columnwidth-\ftn@rule@width\relax \leavevmode\l
22989     \kern 2.6\p@}
22990 \renewcommand*\maketitle[1][1]{%
22991     \expandafter\ifnum \c@name scr@v@3.12\endcsname>\scr@compatibility\relax
22992     \else
22993         \def\and{%
22994             \end{tabular}%
22995             \hskip 1em \@plus.17fil%
22996             \begin{tabular}[t]{c}%
22997         }%
22998     \fi
22999     \if@titlepage
23000         \begin{titlepage}
23001             \setcounter{page}{%
23002                 #1%
23003             }%
23004         \if@titlepageiscoverpage
23005             \edef\t@titlepage@restore{%
23006                 \noexpand\endgroup
23007                 \noexpand\global\noexpand\@colht\the\@colht
23008                 \noexpand\global\noexpand\@colroom\the\@colroom
23009                 \noexpand\global\vs@the\the\vs@the
23010                 \noexpand\global\noexpand\@titlepageiscoverpagefalse
23011                 \noexpand\let\noexpand\t@titlepage@restore\noexpand\relax
23012             }%

```



```

23013 \begingroup
23014 \topmargin=\dimexpr \coverpagetopmargin-1in\relax
23015 \oddsidemargin=\dimexpr \coverpageleftmargin-1in\relax
23016 \evensidemargin=\dimexpr \coverpageleftmargin-1in\relax
23017 \textwidth=\dimexpr
23018 \paperwidth-\coverpageleftmargin-\coverpagerightmargin\relax
23019 \textheight=\dimexpr
23020 \paperheight-\coverpagetopmargin-\coverpagebottommargin\relax
23021 \headheight=0pt
23022 \headsep=0pt
23023 \footskip=\baselineskip
23024 \@colht=\textheight
23025 \@colroom=\textheight
23026 \vsize=\textheight
23027 \columnwidth=\textwidth
23028 \hsize=\columnwidth
23029 \linewidth=\hsize
23030 \else
23031 \let\titlepage@restore\relax
23032 \fi
23033 \let\footnotesize\small
23034 \let\right@footnoterule\relax
23035 \let\left@footnoterule\relax
23036 \let\textwidth@footnoterule\relax
23037 \let\footnote\thanks
23038 \let\LTRfootnote\LTRthanks
23039 \let\RTLfootnote\RTLthanks
23040 \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
23041 \let\@oldmakefnmark\@makefnmark
23042 \renewcommand*{\@makefnmark}{\rlap{\@oldmakefnmark}}%
23043 \ifx\@extratitle\@empty
23044 \ifx\@frontispiece\@empty
23045 \else
23046 \if@twoside\mbox{}\next@tpage\fi
23047 \noindent\@frontispiece\next@tdpage
23048 \fi
23049 \else
23050 \noindent\@extratitle
23051 \ifx\@frontispiece\@empty
23052 \else
23053 \next@tpage
23054 \noindent\@frontispiece
23055 \fi
23056 \next@tdpage
23057 \fi
23058 \setparsizes{z@}{z@}{z@\@plus 1fil}\par@updaterelative
23059 \ifx\@titlehead\@empty \else
23060 \begin{minipage}[t]{\textwidth}%
23061 \usekomafont{titlehead}{\@titlehead\par}%
23062 \end{minipage}\par
23063 \fi
23064 \null\vfill
23065 \begin{center}
23066 \ifx\@subject\@empty \else

```





```

23067         {\usekomafont{subject}{\@subject\par}}%
23068         \vskip 3em
23069     \fi
23070     {\usekomafont{title}{\huge \@title\par}}%
23071     \vskip 1em
23072     {\ifx\@subtitle\@empty\else\usekomafont{subtitle}{\@subtitle\par}\fi}%
23073     \vskip 2em
23074     {%
23075         \usekomafont{author}{%
23076             \lineskip 0.75em
23077             \begin{tabular}[t]{c}
23078                 \@author
23079             \end{tabular}\par
23080         }%
23081     }%
23082     \vskip 1.5em
23083     {\usekomafont{date}{\@date \par}}%
23084     \vskip \z@ \@plus3fill
23085     {\usekomafont{publishers}{\@publishers \par}}%
23086     \vskip 3em
23087 \end{center}\par
23088 \@thanks\global\let\@thanks\@empty
23089 \vfill\null
23090 \if@twoside
23091     \@tempwattrue
23092     \expandafter\ifnum \@nameuse{scr@v03.12}>\scr@compatibility\relax
23093     \else
23094         \ifx\@uppertitleback\@empty\ifx\@lowertitleback\@empty
23095             \@tempwafalse
23096         \fi\fi
23097     \fi
23098     \if@tempswa
23099         \next@tpage
23100         \begin{minipage}[t]{\textwidth}
23101             \@uppertitleback
23102         \end{minipage}\par
23103         \vfill
23104         \begin{minipage}[b]{\textwidth}
23105             \@lowertitleback
23106         \end{minipage}\par
23107         \@thanks\global\let\@thanks\@empty
23108     \fi
23109 \else
23110     \ifx\@uppertitleback\@empty\else
23111         \ClassWarning{\KOMAClassName}{%
23112             non empty \string\uppertitleback\space ignored
23113             by \string\maketitle\MessageBreak
23114             in `twoside=false' mode%
23115         }%
23116     \fi
23117     \ifx\@lowertitleback\@empty\else
23118         \ClassWarning{\KOMAClassName}{%
23119             non empty \string\lowertitleback\space ignored
23120             by \string\maketitle\MessageBreak

```



```

23121         in `twoside=false' mode%
23122     }%
23123     \fi
23124 \fi
23125 \ifx\@dedication\@empty
23126 \else
23127     \next@tdpage\null\vfill
23128     {\centering\usekomafont{dedication}{\@dedication \par}}%
23129     \vskip \z@ \@plus3fill
23130     \@thanks\global\let\@thanks\@empty
23131     \cleardoubleemptypage
23132 \fi
23133 \ifx\titlepage@restore\relax\else\clearpage\titlepage@restore\fi
23134 \end{titlepage}
23135 \else
23136     \par
23137     \@tempcnta=%
23138     #1%
23139     \relax\ifnum\@tempcnta=1\else
23140         \ClassWarning{\KOMAClassName}{%
23141             Optional argument of \string\maketitle\space ignored\MessageBreak
23142             in `titlepage=false' mode%
23143         }%
23144     \fi
23145     \ifx\@uppertitleback\@empty\else
23146         \ClassWarning{\KOMAClassName}{%
23147             non empty \string\uppertitleback\space ignored
23148             by \string\maketitle\MessageBreak
23149             in `titlepage=false' mode%
23150         }%
23151     \fi
23152     \ifx\@lowertitleback\@empty\else
23153         \ClassWarning{\KOMAClassName}{%
23154             non empty \string\lowertitleback\space ignored
23155             by \string\maketitle\MessageBreak
23156             in `titlepage=false' mode%
23157         }%
23158     \fi
23159 \beginngroup
23160     \let\titlepage@restore\relax
23161     \renewcommand*\thefootnote{\@fnsymbol\c@footnote}%
23162     \let\@oldmakefnmark\@makefnmark
23163     \renewcommand*{\@makefnmark}{\rlap\@oldmakefnmark}%
23164     \next@tdpage
23165     \if@twocolumn
23166         \ifnum \col@number=\@one
23167             \ifx\@extratitle\@empty
23168                 \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
23169             \else
23170                 \@makeextratitle
23171             \fi
23172             \ifx\@frontispiece\@empty
23173                 \ifx\@extratitle\@empty\else\next@tdpage\fi
23174             \else

```



```

23175         \next@tpage
23176         \@makefrontispiece
23177         \next@tdpage
23178     \fi
23179     \@maketitle
23180 \else
23181     \ifx\@extratitle\@empty
23182         \ifx\@frontispiece\@empty\else\if@twoside\mbox{}\fi\fi
23183     \else
23184         \twocolumn[\@makeextratitle]%
23185     \fi
23186     \ifx\@frontispiece\@empty
23187         \ifx\@extratitle\@empty\else\next@tdpage\fi
23188     \else
23189         \next@tpage
23190         \twocolumn[\@makefrontispiece]%
23191         \next@tdpage
23192     \fi
23193     \twocolumn[\@maketitle]%
23194 \fi
23195 \else
23196     \ifx\@extratitle\@empty
23197         \ifx\@frontispiece\@empty\else \mbox{}\fi
23198     \else
23199         \@makeextratitle
23200     \fi
23201     \ifx\@frontispiece\@empty
23202         \ifx\@extratitle\@empty\else\next@tdpage\fi
23203     \else
23204         \next@tpage
23205         \@makefrontispiece
23206         \next@tdpage
23207     \fi
23208     \@maketitle
23209 \fi
23210 \ifx\titlepagestyle\@empty\else\thispagestyle{\titlepagestyle}\fi
23211 \@thanks\global\let\@thanks\@empty
23212 \endgroup
23213 \fi
23214 \setcounter{footnote}{0}%
23215 \expandafter\ifnum \csname scr@v@3.12\endcsname>\scr@compatibility\relax
23216     \let\thanks\relax
23217     \let\LTRthanks\relax
23218     \let\RTLthanks\relax
23219     \let\maketitle\relax
23220     \let\@maketitle\relax
23221     \global\let\@thanks\@empty
23222     \global\let\@author\@empty
23223     \global\let\@date\@empty
23224     \global\let\@title\@empty
23225     \global\let\@subtitle\@empty
23226     \global\let\@extratitle\@empty
23227     \global\let\@frontispiece\@empty
23228     \global\let\@titlehead\@empty

```



```

23229 \global\let\@subject\@empty
23230 \global\let\@publishers\@empty
23231 \global\let\@uppertitleback\@empty
23232 \global\let\@lowertitleback\@empty
23233 \global\let\@dedication\@empty
23234 \global\let\author\relax
23235 \global\let\title\relax
23236 \global\let\extratitle\relax
23237 \global\let\titlehead\relax
23238 \global\let\subject\relax
23239 \global\let\publishers\relax
23240 \global\let\uppertitleback\relax
23241 \global\let\lowertitleback\relax
23242 \global\let\dedication\relax
23243 \global\let\date\relax
23244 \fi
23245 \global\let\and\relax
23246 }%
23247 \def\raggedsection{\if@RTL\raggedleft\else\raggedright\fi}
23248 \renewcommand*\autodot{\if@altsecnumformat\@SepMark\fi}
23249 \renewcommand*\thesection{%
23250 \thechapter\@SepMark%
23251 \@arabic\c@section
23252 }
23253 \renewcommand*\thesubsection{\thesection\@SepMark\@arabic\c@subsection}
23254 \renewcommand*\thesubsubsection{%
23255 \thesubsection\@SepMark\@arabic\c@subsubsection
23256 }
23257 \renewcommand*\theparagraph{\thesubsubsection\@SepMark\@arabic\c@paragraph}
23258 \renewcommand*\thesubparagraph{%
23259 \theparagraph\@SepMark\@arabic\c@subparagraph
23260 }
23261 \expandafter\ifnum\scr@v@is@le{2.97d}%
23262 \renewcommand*\thefigure{\thechapter\@SepMark\@arabic\c@figure}
23263 \fi
23264 \expandafter\ifnum\scr@v@is@le{2.97d}%
23265 \renewcommand*\thetable{\thechapter\@SepMark\@arabic\c@table}
23266 \fi
23267 \renewcommand*\theequation{%
23268 \thechapter\@SepMark%
23269 \@arabic\c@equation
23270 }
23271 \renewenvironment{thebibliography}[1]{%
23272 \if@bib@break@
23273 \bib@beginhook
23274 \else
23275 \ifx\bibpreamble\relax\else\ifx\bibpreamble\@empty\else
23276 \setchapterpreamble{\bibpreamble}%
23277 \fi\fi
23278 \bib@heading
23279 \bib@beginhook
23280 \bib@before@hook
23281 \fi
23282 \renewcommand{\BreakBibliography}[1]{%

```



```

23283 \bib@break
23284 \end{thebibliography}%
23285 \begingroup ##1\endgroup
23286 \begin{thebibliography}{#1}
23287 }%
23288 \if@RTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
23289 \bidi@thebibliography@font@hook%
23290 \list{%
23291 \biblabel{\@arabic\c@enumiv}%
23292 }{%
23293 \settowidth\labelwidth{\biblabel{#1}}%
23294 \leftmargin\labelwidth
23295 \advance\leftmargin\labelsep
23296 \@openbib@code
23297 \if@bib@break@
23298 \edef\@tempa{%
23299 \noexpand\usecounter{enumiv}%
23300 \noexpand\setcounter{enumiv}{\the\c@enumiv}%
23301 }\@tempa
23302 \no@bib@break
23303 \else
23304 \usecounter{enumiv}%
23305 \fi
23306 \let\p@enumiv\@empty
23307 \renewcommand*\theenumiv{\@arabic\c@enumiv}%
23308 }%
23309 \sloppy\clubpenalty4000 \widowpenalty4000
23310 \sfcode`\.\=\@m
23311 }{%
23312 \if@bib@break@
23313 \def\@noitemerr{%
23314 \@latex@warning{%
23315 \string\BreakBibliography\space at begin of `thebibliography'
23316 environment\MessageBreak
23317 or following \string\BreakBibliography}%
23318 }%
23319 \else
23320 \def\@noitemerr{%
23321 \@latex@warning{%
23322 Empty `thebibliography' environment or
23323 \string\BreakBibliography\MessageBreak
23324 before end of `thebibliography' environment}%
23325 }%
23326 \fi
23327 \endlist
23328 \if@bib@break@
23329 \else
23330 \bib@after@hook
23331 \let\bib@before@hook\@empty
23332 \let\bib@after@hook\@empty
23333 \fi
23334 \bib@endhook
23335 }
23336 \renewcommand*\raggeddictum{\if@RTL\raggedright\else\raggedleft\fi}

```



```

23337 \renewcommand*{\raggeddictumtext}{\if@RTL\raggedleft\else\raggedright\fi}
23338 \renewcommand*{\raggeddictumauthor}{\if@RTL\raggedright\else\raggedleft\fi}
23339 \renewcommand\marginline[1]{%
23340   \marginpar[\if@RTL\raggedright\else\raggedleft\fi{#1}]{\if@RTL\raggedleft\else\raggedright\fi}
23341 }
23342 \renewcommand{\@makecaption}[3]{%
23343   \cap@margin
23344   \begingroup
23345     \ifonelinecaptions
23346       \def\stepcounter##1{\advance\value{##1}\@ne}%
23347       \let\refstepcounter\stepcounter
23348       \let\label\@gobble
23349       \let\@footnotetext=\@gobble
23350       \let\@LTRfootnotetext=\@gobble
23351       \let\@RTLfootnotetext=\@gobble
23352       \let\hypertarget\@gobbletwo
23353       \edef\xnewline{%
23354         \unexpanded{\ClassInfo{\KOMACClassName}}{%
23355           Workaround for not recommended usage of \string\\ or\MessageBreak
23356           \string\newline in caption text
23357         }%
23358         \hspace*{\linewidth}\hspace{1sp}%
23359       }%
23360       \unexpanded\expandafter{\xnewline}%
23361     }%
23362     \edef\xcentercr{%
23363       \unexpanded{\ClassInfo{\KOMACClassName}}{%
23364         Workaround for not recommended usage of \string\\ or\MessageBreak
23365         \string\newline in caption text
23366       }%
23367       \hspace*{\linewidth}\hspace{1sp}%
23368     }%
23369     \unexpanded\expandafter{\xcentercr}%
23370   }%
23371   \settowidth{\@tempdima}{\scr@makesinglelinecaption{#1}{#2}{#3}}%
23372   \ifdim\@tempdima>\cap@width
23373     \aftergroup\scr@makemultilinecaption
23374   \else
23375     \aftergroup\scr@makesinglelinecaption
23376   \fi
23377   \else
23378     \aftergroup\scr@makemultilinecaption
23379   \fi
23380 \endgroup
23381 {#1}{#2}{#3}%
23382 }
23383 \renewcommand{\scr@makesinglelinecaption}[3]{%
23384   {%
23385     \usefontofkomafont{caption}{%
23386       \hb@xt@{\hsize}{%
23387         \cap@left
23388         \if@RTL
23389           \beginR
23390           \fi

```



```

23391         \scr@makesinglelinecaption{#1}{#2}{#3}%
23392         \if@RTL
23393         \endR
23394         \fi
23395         \cap@right
23396     }\par\kern\dp\strutbox%
23397 }%
23398 }\kern-\dp\strutbox
23399 }
23400 \renewcommand{\@makecaption}[2]{%
23401     \if@captionabove
23402     \vskip\belowcaptionskip
23403     \else
23404     \vskip\abovecaptionskip
23405     \fi
23406     \@makecaption\@firstofone{#1}{#2}%
23407     \if@captionabove
23408     \vskip\abovecaptionskip
23409     \else
23410     \vskip\belowcaptionskip
23411     \fi
23412 }
23413
23414 \renewcommand{\scr@makesinglelinecaption}[3]{%
23415     {\usekomafont{caption}{\strut\ignorespaces
23416       #1{\usekomafont{captionlabel}{#2\captionformat}}}%
23417     \ignorespaces #3\unskip}}%
23418 }
23419
23420 \renewcommand{\scr@makemultilinecaption}[3]{%
23421     {%
23422     \usefontofkomafont{caption}{%
23423     \hb@xt@\hsize{%
23424     \cap@left
23425     \vbox{\hsize\cap@width\linewidth\hsize
23426     \scr@ifundefinedorrelax{@captive}{%
23427     \ClassWarning{\KOMAClassName}{%
23428     `\'string\caption' outside float.\MessageBreak
23429     Seems you are using `\'string\caption' outside a
23430     float.\MessageBreak
23431     Maybe you are using a package that uses
23432     `\'string\@makecaption'\MessageBreak
23433     without setting `\'string\@captive' before.\MessageBreak
23434     Because I cannot detect the caption type, I'm using\MessageBreak
23435     the empty one.%
23436     }%
23437     \let@captive\empty
23438     }}%
23439     \scr@ifundefinedorrelax{ragged@captive}{\raggedcaption}{%
23440     \@nameuse{ragged@captive caption}%
23441     }%
23442     \ifdofullc@p
23443     \@hangfrom{%
23444     \strut

```



```

23445         \scr@smashdp{%
23446             #1{%
23447                 \usekomafont{caption}{%
23448                     \usekomafont{captionlabel}{#2\captionformat}%
23449                 }%
23450             }%
23451         }%
23452     }%
23453     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23454 \else
23455     \ifdim\cap@indent<\z@
23456         \strut
23457         #1{%
23458             {\usekomafont{caption}{%
23459                 \usekomafont{captionlabel}{#2\captionformat}%
23460             }%
23461         }\par}%
23462     \noindent{{\usekomafont{caption}{%
23463         \hspace*{-\cap@indent}#3\scr@endstrut
23464     }}\par}%
23465 \else
23466     \if@capbreak
23467         \strut
23468         #1{%
23469             {\usekomafont{caption}{%
23470                 \usekomafont{captionlabel}{#2\captionformat}%
23471             }%
23472         }\par}%
23473     \noindent\@hangfrom{\hspace*{\cap@indent}}%
23474     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23475 \else
23476     \@hangfrom{\scr@smashdp\strut\hspace*{\cap@indent}}%
23477     {%
23478         \hspace{-\cap@indent}%
23479         \scr@smashdp{%
23480             #1{\usekomafont{caption}{%
23481                 \usekomafont{captionlabel}{#2\captionformat}%
23482             }%
23483         }%
23484     }%
23485     {{\usekomafont{caption}{#3\scr@endstrut}}\par}%
23486 }%
23487 \fi
23488 \fi
23489 \fi
23490 }%
23491 \cap@right
23492 }\par\kern\dp\strutbox
23493 }%
23494 }\kern-\dp\strutbox
23495 }
23496
23497
23498 \bidi@AfterFile{longtable-xetex-bidi.def}{%

```





```

23499 \if@komalongtable
23500   \renewcommand{\LT@makecaption}[3]{%
23501     \noalign{%
23502       \if@captionabove
23503         \vskip\belowcaptionskip
23504       \else
23505         \vskip\abovecaptionskip
23506       \fi
23507     }%
23508     \LT@mcot\LT@cols c{%
23509       \hbox to\zot{\hss\parbox[t]{\linewidth{%
23510         \def\@capytype{table}%
23511         \@makecaption{#1}{#2}{#3}%
23512         \endgraf
23513         \if@captionabove
23514           \vskip\abovecaptionskip
23515         \else
23516           \vskip\belowcaptionskip
23517         \fi
23518       }%
23519       \hss
23520     }%
23521   }%
23522 }%
23523 \renewcommand*{\scr@LT@array}{}%
23524 \let\scr@LT@array=\LT@array
23525 \renewcommand*{\LT@array}{%
23526   \let\scr@caption=\LT@caption
23527   \def\captionabove{\noalign{\global\@captionabovetrue}%
23528     \scr@caption}%
23529   \def\captionbelow{\noalign{\global\@captionabovefalse}%
23530     \scr@caption}%
23531   \if@tablecaptionabove
23532     \let\LT@caption=\captionabove
23533   \else
23534     \let\LT@caption=\captionbelow
23535   \fi
23536   \scr@LT@array
23537 }%
23538 \ClassInfo{\KOMAClassName}{%
23539   longtable captions redefined%
23540 }%
23541 \fi
23542 }
23543
23544 \CloneTOCEntryStyle{tocline}{part}
23545 \TOCEntryStyleStartInitCode{part}{%
23546   \expandafter\renewcommand%
23547     \csname scr@tso@#1@linefill\endcsname{\hfill}%
23548   \expandafter\renewcommand%
23549     \csname scr@tso@#1@entryformat\endcsname[1]{\usekomafont{partentry}{##1}}%
23550   \expandafter\renewcommand%
23551     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23552     {\usekomafont{partentry}{\usekomafont{partentrypagenumber}{##1}}}%

```



```

23553 \expandafter\renewcommand\expandafter*%
23554 \csname scr@tso@#1@beforeskip\endcsname{2.25em \@plus\p@}%
23555 }
23556
23557 \CloneTOCEntryStyle{tocline}{chapter}
23558 \TOCEntryStyleStartInitCode{chapter}{%
23559 \expandafter\renewcommand%
23560 \csname scr@tso@#1@linefill\endcsname{%
23561 \if@chapterentrywithdots
23562 {\usekomafont{chapterentrydots}{\TOCLineLeaderFill}}\relax
23563 \else
23564 \hfill
23565 \fi
23566 }%
23567 \expandafter\renewcommand%
23568 \csname scr@tso@#1@entryformat\endcsname{\usekomafont{chapterentry}}}%
23569 \expandafter\renewcommand%
23570 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23571 {\usekomafont{chapterentry}{\usekomafont{chapterentrypagenumber}{##1}}}%
23572 \expandafter\renewcommand\expandafter*%
23573 \csname scr@tso@#1@beforeskip\endcsname{1.0em \@plus\p@}%
23574 }
23575
23576 \CloneTOCEntryStyle{tocline}{section}
23577 \TOCEntryStyleStartInitCode{section}{%
23578 \expandafter\renewcommand%
23579 \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
23580 \expandafter\renewcommand%
23581 \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
23582 {\normalfont\normalcolor ##1}}}%
23583 }
23584
23585 \CloneTOCEntryStyle{section}{default}
23586
23587 \DeclareSectionCommand[%
23588 style=chapter,%
23589 level=\z@,%
23590 pagestyle=plain,%
23591 tocstyle=chapter,%
23592 tocindent=\z@,%
23593 tocnumwidth=1.5em%
23594 ]{chapter}
23595 \DeclareSectionCommand[%
23596 style=section,%
23597 level=1,%
23598 indent=\z@,%
23599 beforeskip=-3.5ex \@plus -1ex \@minus -.2ex,%
23600 afterskip=2.3ex \@plus .2ex,%
23601 tocstyle=section,%
23602 tocindentfollows=chapter,%
23603 tocindent=1.5em,%
23604 tocnumwidth=2.3em%
23605 ]{section}
23606 \DeclareSectionCommand[%

```



```

23607 style=part,%
23608 level=\m@ne,%
23609 pagestyle=plain,%
23610 tocstyle=part,%
23611 toplevel=\m@ne,%
23612 tocindent=\z@,%
23613 tocnumwidth=2em%
23614 ]{part}
23615 \DeclareSectionCommand[%
23616 style=section,%
23617 level=2,%
23618 indent=\z@,%
23619 beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
23620 afterskip=1.5ex \@plus .2ex,%
23621 tocstyle=section,%
23622 tocindent=3.8em,%
23623 tocnumwidth=3.2em%
23624 ]{subsection}
23625 \DeclareSectionCommand[%
23626 style=section,%
23627 level=3,%
23628 indent=\z@,%
23629 beforeskip=-3.25ex\@plus -1ex \@minus -.2ex,%
23630 afterskip=1.5ex \@plus .2ex,%
23631 tocstyle=section,%
23632 tocindent=7.0em,%
23633 tocnumwidth=4.1em%
23634 ]{subsubsection}
23635 \DeclareSectionCommand[%
23636 style=section,%
23637 level=4,%
23638 indent=\z@,%
23639 beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
23640 afterskip=-1em,%
23641 tocindentfollows=subsubsection,%
23642 tocstyle=section,%
23643 tocindent=10em,%
23644 tocnumwidth=5em%
23645 ]{paragraph}
23646 \DeclareSectionCommand[%
23647 style=section,%
23648 level=5,%
23649 indent=\scr@parindent,%
23650 beforeskip=3.25ex \@plus 1ex \@minus .2ex,%
23651 afterskip=-1em,%
23652 tocstyle=section,%
23653 tocindent=12em,%
23654 tocnumwidth=6em%
23655 ]{subparagraph}

```

## 143 File sidecap-xetex-bidi.def

```

23656 \ProvidesFile{sidecap-xetex-bidi.def}[2025/01/03 v0.2 bidi adaptations for sidecap package f
23657 \RequirePackage{ragged2e}

```



```

23658 \renewcommand*{\SC@FLOAT}[2]{\if@RTL%
23659   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}\else%
23660 \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}\fi}
23661 \renewcommand*{\SC@justify@caption{\if@RTL%
23662 \isSC@ODD{\RaggedLeft}{\RaggedRight}}\else%
23663   \isSC@ODD{\RaggedRight}{\RaggedLeft}}\fi}
23664
23665 \@ifpackagewith{sidecap}{innercaption}{%
23666 \if@RTL \renewcommand*{\SC@FLOAT}[2]{%
23667   \isSC@ODD{#2}\hspace{\sidecaptionsep}{#1}} {{#1}\hspace{\sidecaptionsep}{#2}}}
23668 \renewcommand*{\SC@justify@caption{%
23669   \isSC@ODD{\RaggedRight}{\RaggedLeft}}\else
23670 \renewcommand*{\SC@FLOAT}[2]{%
23671   \isSC@ODD{#1}\hspace{\sidecaptionsep}{#2}} {{#2}\hspace{\sidecaptionsep}{#1}}}
23672 \renewcommand*{\SC@justify@caption{%
23673   \isSC@ODD{\RaggedLeft}{\RaggedRight}}\fi
23674 }{}
23675
23676 \@ifpackagewith{sidecap}{rightcaption}{%
23677 \if@RTL\renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
23678 \def\SC@justify@caption{\RaggedLeft}\else%
23679 \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
23680 \def\SC@justify@caption{\RaggedRight}\fi%
23681 }{}
23682
23683 \@ifpackagewith{sidecap}{leftcaption}{%
23684 \if@RTL \renewcommand*{\SC@FLOAT}[2]{{#2}\hspace{\sidecaptionsep}{#1}}
23685 \def\SC@justify@caption{\RaggedRight}\else%
23686 \renewcommand*{\SC@FLOAT}[2]{{#1}\hspace{\sidecaptionsep}{#2}}
23687 \def\SC@justify@caption{\RaggedLeft}\fi%
23688 }{}

```

## 144 File soul-xetex-bidi.def

```

23689 \ProvidesFile{soul-xetex-bidi.def}[2015/10/16 v0.1 bidi adaptations for soul package for XeT
23690 \long\def\SOUL@start#1{%
23691   \let\bidi@RTL@everypar@empty
23692   \let\<\SOUL@lowerthan
23693   \let\>\empty
23694   \def\soulomit{\noexpand\soulomit}%
23695   \gdef\SOUL@eventuallyexhyphen##1{%
23696     \let\SOUL@soeventuallyskip\relax
23697     \SOUL@spaceskip=\fontdimen\tw@\font\@plus\fontdimen\thr@@\font
23698       \@minus\fontdimen4\font
23699     \SOUL@ignorespacesfalse
23700     \leavevmode
23701     \SOUL@preamble
23702     \SOUL@lasttoken={}%
23703     \SOUL@word={}%
23704     \SOUL@minus\z@
23705     \SOUL@comma\z@
23706     \SOUL@apo\z@
23707     \SOUL@grave\z@
23708     \SOUL@do{#1}%

```



```

23709 \SOUL@postamble
23710 }}
23711 \def\SOUL@ulunderline#1{%
23712 \setbox\z@\hbox{#1}%
23713 \dimen@=\wd\z@
23714 \dimen@i=\SOUL@uloverlap
23715 \advance\dimen@2\dimen@i
23716 \if@RTL
23717 \unhcopy\z@
23718 \llap{%
23719 \null
23720 \kern-\dimen@i
23721 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
23722 }%
23723 \else
23724 \rlap{%
23725 \null
23726 \kern-\dimen@i
23727 \SOUL@ulcolor{\SOUL@ulleaders\hskip\dimen@}%
23728 }%
23729 \unhcopy\z@
23730 \fi
23731 }}
23732 \def\bidi@SOUL@ulleaders{%
23733 \leaders\hb@xt@0.1pt{\hss\SOUL@ulcolor{\vrule\@depth\SOUL@uldp\@height\SOUL@ulht}\hss}\n
23734 }
23735 \def\SOUL@uleveryspace#1{%
23736 \if@RTL
23737 #1%
23738 \bidi@SOUL@ulleaders
23739 \hskip\spaceskip
23740 \else
23741 \SOUL@ulcolor{%
23742 #1%
23743 \SOUL@ulleaders
23744 \hskip\spaceskip
23745 }%
23746 \fi
23747 \null
23748 }

```

## 145 File stabular-xetex-bidi.def

```

23749 \ProvidesFile{stabular-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for stabular package]
23750 \def\@stabular{%
23751 \leavevmode \bgroup \if@RTLtab\beginR \fi
23752 \let\@acol\@tabacol
23753 \let\@classz\@tabclassz
23754 \let\@classiv\@tabclassiv \let\\\@tabularcr\@stabarray}
23755 \def\endstabular{\crr\egroup\if@RTLtab\egroup\endR\egroup\fi
23756 \egroup \if@RTLtab\endR\fi\egroup}
23757 \expandafter \let \csname endstabular*\endcsname = \endstabular
23758 \def\@sarray[#1]#2{%
23759 \bgroup

```



```

23760 \setbox\@arstrutbox\hbox{%
23761   \vrule \@height\arraystretch\ht\strutbox
23762         \@depth\arraystretch \dp\strutbox
23763         \@width\z@}%
23764 \mkpream{#2}%
23765 \edef\@preamble{%
23766   \ialign \noexpand\@halignto
23767     \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
23768 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
23769 \let\tabularnewline\\%
23770 \let\@sharp##%
23771 \set@typeset@protect
23772 \lineskip\z@skip\baselineskip\z@skip
23773 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\top \else \vbox \fi\bgroup\fi
23774   \@preamble}

```

## 146 File subfigure-xetex-bidi.def

```

23775 \ProvidesFile{subfigure-xetex-bidi.def}[2010/03/01 v0.1 bidi adaptations for subfigure packa
23776 \AtBeginDocument{%
23777 \let\p@subfigure=\thefigure
23778 \let\p@subtable=\thetable%
23779 }

```

## 147 File tabs-xetex-bidi.def

```

23780 \ProvidesFile{tabs-xetex-bidi.def}[2015/11/07 v0.3 bidi adaptations for tabs package for X
23781 \def\endtabular{\endarray $\if@RTLtab\endR\fi\egroup}
23782
23783 \expandafter\let\csname endtabular*\endcsname=\endtabular
23784
23785 \def\endarray{\ifvmode\csname crcr\endcsname % just do \crr if \ given
23786   \else \[\z@ \global\advance\@arstdepth-\@otarlinesep]%
23787   \fi\egroup\if@RTLtab\egroup\endR\egroup\fi\@unrecurse\egroup}
23788
23789 \def\@array[#1]#2{% remember global variables to allow recursion:
23790   \edef\@unrecurse{\global\@skip@bove\the\@skip@bove
23791     \global\@arstheight\the\@arstheight\global\@arstdepth\the\@arstdepth}%
23792   \let\@otarlinesep\@tarlinesep \global\@skip@bove-\@otarlinesep
23793   \ifx\@classz\@arrayclassz \let\@tarlinesep\arraylinesep
23794   \else \let\@tarlinesep\tablinesep \fi
23795   \divide\@tarlinesep\tw@ % half sep is applied to height & depth
23796   \let\@seesize\relax \let\@rememsize\relax \mkpream{#2}%
23797   \@tempdima\arraystretch\ht\strutbox \@tempdimb\arraystretch\dp\strutbox
23798   \ifdim\@tarlinesep>\z@ % (need \protect for \multicolumn)
23799     \def\@rememsize{\protect\@r@m@msize}\let\@seesize\@s@size
23800     \advance\@tempdima-\@tarlinesep \advance\@tempdimb-\@tarlinesep
23801     \fi \setbox\@arstrutbox\hbox{% set up smaller strut
23802       \vrule \@height\@tempdima \@depth\@tempdimb \@width\z@}%
23803     \let\protect\noexpand
23804     \edef\@preamble{\ialign \noexpand\@halignto \bgroup
23805       \unhcopy\@arstrutbox \@preamble \tabskip\z@skip &\@sharp \cr}%
23806     \let\@startpbox\@startpbox \let\@endpbox\@endpbox
23807     \if#1t\top \else \if#1b\vbox \else \vcenter \fi\fi

```



```

23808 \bgroup \let\par\@empty
23809 \global\@arstheight\ht\@arstrutbox \global\@arstdepth\dp\@arstrutbox
23810 \advance\extrarulesep.5\arrayrulewidth
23811 \let\@sharp##\let\protect\relax \lineskip\z@skip \baselineskip\z@skip
23812 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if#1\top \else \vbox \fi\bgroup\fi
23813 \@preamble}

```

## 148 File tabularx-xetex-bidi.def

```

23814 \ProvidesFile{tabularx-xetex-bidi.def}[2014/11/08 v0.1 bidi adaptations for tabularx package]
23815 \def\TX@endtabularx{%
23816   \expandafter\expandafter\expandafter
23817     \TX@find@endtabularxa\csname end\TX@\endcsname
23818     \endtabularx\TX@\endtabularx\TX@find@endtabularxa
23819   \expandafter\TX@newcol\expandafter{\tabularxcolumn{\TX@col@width}}%
23820   \let\verb\TX@verb
23821   \def\@elt##1{\global\value{##1}\the\value{##1}\relax}%
23822   \edef\TX@ckpt{\cl@ckpt}%
23823   \let\@elt\relax
23824   \TX@old@table\maxdimen
23825   \TX@col@width\TX@target
23826   \global\TX@cols\@ne
23827   \TX@typeout@
23828     {\@spaces Table Width\@spaces Column Width\@spaces X Columns}%
23829   \TX@trial{\def\NC@rewrite@X{%
23830     \global\advance\TX@cols\@ne\NC@find p{\TX@col@width}}}%
23831   \loop
23832     \TX@arith
23833     \ifTX@
23834     \TX@trial{%
23835   \repeat
23836   {\let\@footnotetext\TX@ftntext\let\@xfootnotenext\TX@xftntext
23837   \let\@LTRfootnotetext\TX@LTRftntext\let\@xLTRfootnotenext\TX@xLTRftntext
23838   \let\@RTLfootnotetext\TX@RTLftntext\let\@xRTLfootnotenext\TX@xRTLftntext
23839   \csname tabular*\expandafter\endcsname\expandafter\TX@target
23840     \the\toks@
23841     \csname endtabular*\endcsname}%
23842   \global\TX@ftn\expandafter{\expandafter}\the\TX@ftn
23843   \ifnum0=`{\fi}%
23844   \expandafter\expandafter\expandafter
23845   \TX@find@endtabularxbb
23846   \expandafter\end\expandafter{\TX@}%
23847   \endtabularx\TX@\endtabularx\TX@find@endtabularxb
23848 }
23849
23850 \def\TX@trial#1{%
23851   \setbox\@tempboxa\hbox{%
23852     #1\relax
23853   \let\@footnotetext\TX@trial@ftn
23854   \let\@LTRfootnotetext\TX@trial@ftn
23855   \let\@RTLfootnotetext\TX@trial@ftn
23856   \let\TX@vwarn\@empty
23857   \expandafter\let\expandafter\tabularx\csname tabular*\endcsname
23858   \expandafter\let\expandafter\endtabularx\csname endtabular*\endcsname

```



```

23859 \def\write{\begingroup
23860 \def\let{\afterassignment\endgroup\toks@}%
23861 \afterassignment\let\count@}%
23862 \hbadness\OM
23863 \hfuzz\maxdimen
23864 \let\hbadness\@tempcnta
23865 \let\hfuzz\@tempdima
23866 \expandafter\tabular\the\toks@
23867 \endtabular}%
23868 \TX@ckpt
23869 \TX@typeout@{\@spaces
23870 \expandafter\TX@align
23871 \the\wd\@tempboxa\space\space\space\space\space\@@
23872 \expandafter\TX@align
23873 \the\TX@colwidth\space\space\space\space\space\@@
23874 \@spaces\the\TX@cols}}
23875
23876 \long\def\TX@LTrftntext#1{%
23877 \edef\@tempa{\the\TX@ftn\noexpand\LTRfootnotetext
23878 [\the\csname c@\@mpfn\endcsname]}}%
23879 \global\TX@ftn\expandafter{\@tempa{#1}}}%
23880 \long\def\TX@xLTrftntext[#1]#2{%
23881 \global\TX@ftn\expandafter{\the\TX@ftn\LTRfootnotetext[#1]{#2}}}
23882
23883 \long\def\TX@RTLftntext#1{%
23884 \edef\@tempa{\the\TX@ftn\noexpand\RTLfootnotetext
23885 [\the\csname c@\@mpfn\endcsname]}}%
23886 \global\TX@ftn\expandafter{\@tempa{#1}}}%
23887 \long\def\TX@xRTLftntext[#1]#2{%
23888 \global\TX@ftn\expandafter{\the\TX@ftn\RTLfootnotetext[#1]{#2}}}

```

## 149 File tabulary-xetex-bidi.def

```

23889 \ProvidesFile{tabulary-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tabulary package]
23890 \def\@testpach{\@chclass
23891 \ifnum \@lastchclass=6 \@ne \@chnum \@ne \else
23892 \ifnum \@lastchclass=7 5 \else
23893 \ifnum \@lastchclass=8 \tw@ \else
23894 \ifnum \@lastchclass=9 \thr@@
23895 \else \z@
23896 \ifnum \@lastchclass = 10 \else
23897 \edef\@nextchar{\expandafter\string\@nextchar}%
23898 \@chnum
23899 \if \@nextchar c\z@ \else
23900 \if \@nextchar \if@RTLtab r\else l\fi\@ne \else
23901 \if \@nextchar \if@RTLtab l\else r\fi\tw@ \else
23902 \if \@nextchar C7 \else
23903 \if \@nextchar L8 \else
23904 \if \@nextchar R9 \else
23905 \if \@nextchar J10 \else
23906 \z@ \@chclass
23907 \if \@nextchar |\@ne \else
23908 \if \@nextchar !6 \else
23909 \if \@nextchar @7 \else

```





```

23910      \if \@nextchar <8 \else
23911      \if \@nextchar >9 \else
23912      10
23913      \@chnum
23914      \if \@nextchar m\thr@@\else
23915      \if \@nextchar p4 \else
23916      \if \@nextchar b5 \else
23917      \z@ \@chclass \z@ \@preamerr \z@ \fi \fi \fi \fi \fi \fi \fi \fi \fi
23918      \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi \fi

```

## 150 File tc-xetex-xetex-bidi.def

```

23919 \ProvidesFile{tc-xetex-xetex-bidi.def}[2014/07/08 v0.1 bidi adaptations for Clipping driver]
23920 \def\@cliptoboxdim#1{%
23921     \setbox#1=\hbox{%
23922         \Gin@defaultbp\WIDTH{\wd#1}%
23923         \Gin@defaultbp\DEPTH{\dp#1}%
23924         \@tempdima\ht#1%
23925         \advance\@tempdima\dp#1%
23926         \Gin@defaultbp\TOTALHEIGHT{\@tempdima}%
23927         \beginL\special{pdf:bcontent }%
23928         \special{%
23929             pdf:literal direct
23930             0 -\DEPTH\space \WIDTH\space \TOTALHEIGHT\space re
23931         }%
23932         \special{pdf:literal direct W }%
23933         \special{pdf:literal direct n }%
23934         \if@RTL\beginR\fi\box#1\if@RTL\endR\fi%
23935         \special{pdf:econtent }\endL%
23936     }%
23937 }

```

## 151 File tcolorbox-xetex-bidi.def

```

23938 \ProvidesFile{tcolorbox-xetex-bidi.def}[2018/11/11 v0.2 bidi adaptations for tcolorbox package]
23939 \let\endtcbox@lrbox=\endminipage
23940 \let\endtcbox@savebox=\endtcbox@lrbox
23941
23942 \bidi@patchcmd{\tcboxvbox}{%
23943     \let\@footnotetext\@mpfootnotetext%
23944 }{%
23945     \let\@footnotetext\@mpfootnotetext%
23946     \let\@LTRfootnotetext\@mpLTRfootnotetext%
23947     \let\@RTLfootnotetext\@mpRTLfootnotetext%
23948 }{}{}
23949
23950 \bidi@patchcmd{\endtcboxvbox}{%
23951     \footnoterule%
23952 }{%
23953     \bidi@mpfootnoterule%
23954 }{}{}
23955 \bidi@apptocmd\tcbox@icolorbox{%
23956     \@bidi@list@minipage@parboxfalse
23957 }{}{}

```



## 152 File titlesec-xetex-bidi.def

```
23958 \ProvidesFile{titlesec-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for titlesec package]
23959 \renewcommand\filright{%
23960   \gdef\ttl@filleft##1{\hskip##1}%
23961   \gdef\ttl@filright##1{\hfill}%
23962   \let\\\@centercr
23963   \advance\rightskip\z@ \@plus 1fil
23964   \parfillskip\z@}
23965 \def\ttlh@hang#1#2#3#4#5#6#7#8{%
23966   \gdef\ttl@makeline##1{\ttl@calc\hspace{#6}##1\ttl@calc\hspace{#7}}%
23967   \setlength\leftskip{#6}%
23968   \setlength\rightskip{#7}%
23969   \interlinepenalty\@M
23970   \ttl@change@centercr
23971   \ttl@beginlongest
23972   #1{\ifhmode\ttl@hmode@error\fi
23973     \ttl@glcmds
23974     \parindent\z@
23975     \leavevmode
23976     \begin@group
23977     \if\ttl@label
23978       \sbox\z@{#2\strut\ttl@calc\hspace{#3}}%
23979       \if@RTL\advance\rightskip\wd\z@\else\advance\leftskip\wd\z@\fi
23980       \llap{\box\z@}%
23981     \fi
23982     #4{#8}%
23983     \kern\z@\strut\@par
23984     \endgroup
23985     \nobreak\ttl@midlongest#5\@par}%
23986   \ttl@endlongest}
```

## 153 File titletoc-xetex-bidi.def

```
23987 \ProvidesFile{titletoc-xetex-bidi.def}[2013/04/10 v0.2 bidi adaptations for titletoc package]
23988 \renewcommand\filright{%
23989   \gdef\ttl@filleft##1{\hskip##1}%
23990   \gdef\ttl@filright##1{\hfill}%
23991   \let\\\@centercr
23992   \advance\rightskip\z@ \@plus 1fil
23993   \parfillskip\z@}
23994 \renewcommand\contentspush[1]{%
23995   \sbox\z@{#1}%
23996   \xdef\ttl@b{\advance\if@RTL\rightskip\else\leftskip\fi\the\wd\z@}%
23997   \aftergroup\ttl@b
23998   \leavevmode\llap{\box\z@}}
23999 \def\ttl@outnoblock#1#2#3{%
24000   \begin@group
24001   \ifnum\ttl@b>\ttl@a
24002     \nobreak
24003   \else\ifnum\ttl@b<\ttl@a
24004     \addpenalty{\@secpenalty}%
24005   \else
24006     \addpenalty{\z@}%
24007   \fi
24008   \endgroup}
```



```

24007 \fi\fi
24008 \ttl@contentsstretch
24009 \nobreak
24010 \ifcase#1\relax\else\interlinepenalty\@M\fi
24011 \parindent\z@
24012 \ifx\@nil#2%
24013   \PackageError{titletoc}{Unimplemented}%
24014   {The optional argument is currently mandatory}%
24015 \else
24016   \ifRTL\setlength\rightskip{#2}\else
24017   \setlength\leftskip{#2}\fi%
24018 \fi
24019 \ifRTL\setlength\leftskip{\@pnumwidth}\else\setlength\rightskip{\@pnumwidth}\fi%
24020 \let\contentsmargin\ttl@margin
24021 \def\ttl@makeline##1{##1}%
24022 #3%
24023 \addtolength{\parfillskip}{- \ttl@corr}%
24024 \ifRTL\addtolength{\leftskip}{\ttl@corr}\else\addtolength{\rightskip}{\ttl@corr}\fi%
24025 \let\ttl@leaders\leaders}
24026 \renewcommand\ttl@margin[2][\z@]{%
24027   \def\ttl@corr{#1}%
24028   \advance\ifRTL\leftskip\else\rightskip\fi-\@pnumwidth\relax
24029   \advance\ifRTL\leftskip\else\rightskip\fi#2\relax
24030   \def\@pnumwidth{#2}}
24031 \let\ttl@savel@part\l@part
24032 \def\l@part{\ttl@lselect{part}}
24033
24034 \let\ttl@savel@chapter\l@chapter
24035 \def\l@chapter{\ttl@lselect{chapter}}

```

## 154 File tocbibbind-xetex-bidi.def

```

24036 \ProvidesFile{tocbibbind-xetex-bidi.def}[2025/01/03 v0.5 bidi adaptations for tocbibbind packa
24037 \IfClassLoadedT{memoir}{\endinput}
24038 \if@dotocbib
24039   \ApplyPatchIfPackageLoadedF{natbib}{% natbib not loaded
24040     \renewcommand{\bibsection}{\t@cb@bchapsec}
24041     \renewenvironment{thebibliography}[1]{%
24042       \bibsection
24043       \begin{thebibitemlist}{#1}}{\end{thebibitemlist}}}
24044 \renewenvironment{thebibitemlist}[1]{
24045   \ifRTL\if@LTRbibitems\@RTLfalse\else\fi\else\if@RTLbibitems\@RTLtrue\else\fi\fi
24046   \bidi@thebibliography@font@hook%
24047   \list{\@biblabel{\@arabic{c@enumiv}}}%
24048     {\settowidth\labelwidth{\@biblabel{#1}}%
24049     \leftmargin\labelwidth
24050     \advance\leftmargin\labelsep
24051     \@openbib@code
24052     \usecounter{enumiv}%
24053     \let\p@enumiv\@empty
24054     \renewcommand\theenumiv{\@arabic{c@enumiv}}}%
24055   \sloppy
24056   \clubpenalty4000
24057   \@clubpenalty \clubpenalty

```



```

24058 \widowpenalty4000%
24059 \sfcode`\.\@m}
24060 {\def\@noitemerr
24061 {\@latex@warning{Empty `thebibliography' environment}}}%
24062 \endlist}
24063
24064 \ApplyPatchCodeToPackage{chapterbib}{%
24065 \ifpackagewith{chapterbib}{sectionbib}%
24066 {\renewcommand{\sectionbib}[2]{}}%
24067 }%
24068 }
24069
24070 \fi
24071 \if@inltxdoc\else
24072 \renewenvironment{theindex}%
24073 {\if@twocolumn
24074 \@restonecolfalse
24075 \else
24076 \@restonecoltrue
24077 \fi
24078 \if@bibchapter
24079 \if@donumindex
24080 \refstepcounter{chapter}
24081 \twocolumn[\vspace*{2\topskip}%
24082 \makechapterhead{\indexname}}%
24083 \addcontentsline{toc}{chapter}{\protect\numberline{\thechapter}\indexname}
24084 \chaptermark{\indexname}
24085 \else
24086 \if@dotocind
24087 \twocolumn[\vspace*{2\topskip}%
24088 \makechapterhead{\indexname}}%
24089 \prw@mkboth{\indexname}
24090 \addcontentsline{toc}{chapter}{\indexname}
24091 \else
24092 \twocolumn[\vspace*{2\topskip}%
24093 \makechapterhead{\indexname}}%
24094 \prw@mkboth{\indexname}
24095 \fi
24096 \fi
24097 \else
24098 \if@donumindex
24099 \twocolumn[\vspace*{-1.5\topskip}%
24100 \nameuse{\@tocextra}{\indexname}}%
24101 \csname \@tocextra mark\endcsname{\indexname}
24102 \else
24103 \if@dotocind
24104 \twocolumn[\vspace*{-1.5\topskip}%
24105 \toc@headstar{\@tocextra}{\indexname}}%
24106 \prw@mkboth{\indexname}
24107 \addcontentsline{toc}{\@tocextra}{\indexname}
24108 \else
24109 \twocolumn[\vspace*{-1.5\topskip}%
24110 \toc@headstar{\@tocextra}{\indexname}}%
24111 \prw@mkboth{\indexname}

```



```

24112         \fi
24113     \fi
24114 \fi
24115 \thispagestyle{plain}\parindent\z@
24116 \parskip\z@ \@plus .3\p@\relax
24117 \let\item\@idxitem}
24118 {\if@restonecol\onecolumn\else\clearpage\fi}
24119 \fi

```

## 155 File tocloft-xetex-bidi.def

```

24120 \ProvidesFile{tocloft-xetex-bidi.def}[2025/01/03 v0.4 bidi adaptations for tocloft package f
24121 \IfClassLoadedT{memoir}{\endinput}
24122 \renewcommand{\cftpnumalign}{\if@RTL l\else r\fi}
24123 \let\cftdot\@SepMark
24124 \if@cfthaspart
24125 \renewcommand*{\l@part}[2]{
24126   \@cftdopartfalse
24127   \ifnum \c@tocdepth >-2\relax
24128     \if@cfthaschapter
24129       \@cftdoparttrue
24130     \fi
24131     \ifnum \c@tocdepth >\m@ne
24132       \if@cfthaschapter\else
24133         \@cftdoparttrue
24134       \fi
24135     \fi
24136   \fi
24137   \if@cftdopart
24138     \if@cfthaschapter
24139       \addpenalty{-\@highpenalty}
24140     \else
24141       \addpenalty\@secpenalty
24142     \fi
24143     \addvspace{\cftbeforepartskip}
24144     \begingroup
24145       {\if@RTL\rightskip\else\leftskip\fi \cftpartindent\relax
24146        \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24147        \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24148        \parindent \cftpartindent\relax\@afterindenttrue
24149        \interlinepenalty\@M
24150        \leavevmode
24151        \@tempdima \cftpartnumwidth\relax
24152        \let\@cftbsnum \cftpartpresnum
24153        \let\@cftasnum \cftpartaftersnum
24154        \let\@cftasnumb \cftpartaftersnumb
24155        \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
24156        {\cftpartfont \cftpartpresnum #1}
24157        \cftpartfillnum{#2}}
24158     \nobreak
24159     \if@cfthaschapter
24160       \global\@nobreaktrue
24161       \everypar{\global\@nobreakfalse\everypar{}}
24162   \else

```



```

24163         \if@compatibility
24164         \global\@nobreake>true
24165         \everypar{\global\@nobreake>false\everypar{}}
24166         \fi
24167     \fi
24168 \endgroup
24169 \fi}
24170 \fi
24171 \if@cfthaschapter
24172 \renewcommand*{\l@chapter}[2]{
24173     \ifnum \c@tocdepth >\m@ne
24174         \addpenalty{-\@highpenalty}
24175         \vskip \cftbeforechapskip
24176         {\if@RTL\righskip\else\leftskip\fi \cftchapindent\relax
24177         \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24178         \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24179         \parindent \cftchapindent\relax\@afterindenttrue
24180         \interlinepenalty\@M
24181         \leavevmode
24182         \@tempdima \cftchapnumwidth\relax
24183         \let\@cftbsnum \cftchappresnum
24184         \let\@cftasnum \cftchapaftersnum
24185         \let\@cftasnumb \cftchapaftersnumb
24186         \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24187         {\cftchapfont #1}\nobreak
24188         \cftchapfillnum{#2}}
24189     \fi}
24190 \fi
24191 \renewcommand*{\l@section}[2]{%
24192     \ifnum \c@tocdepth >\z@
24193         \if@cfthaschapter
24194             \vskip \cftbeforeseccskip
24195         \else
24196             \addpenalty\@secpenalty
24197             \addvspace{\cftbeforeseccskip}
24198         \fi
24199         {\if@RTL\righskip\else\leftskip\fi \cftsecindent\relax
24200         \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24201         \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24202         \parindent \cftsecindent\relax\@afterindenttrue
24203         \interlinepenalty\@M
24204         \leavevmode
24205         \@tempdima \cftsecnumwidth\relax
24206         \let\@cftbsnum \cftsecpresnum
24207         \let\@cftasnum \cftsecaftersnum
24208         \let\@cftasnumb \cftsecaftersnumb
24209         \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\righ
24210         {\cftsecfont #1}\nobreak
24211         \cftsecfillnum{#2}}
24212     \fi}
24213 \renewcommand*{\l@subsection}[2]{%
24214     \ifnum \c@tocdepth >\@ne
24215         \vskip \cftbeforesubsecskip
24216         {\if@RTL\righskip\else\leftskip\fi \cftsubsecindent\relax

```



```

24217 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24218 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24219 \parindent \cftsubsecindent\relax\@afterindenttrue
24220 \interlinepenalty\@M
24221 \leavevmode
24222 \@tempdima \cftsubsecnumwidth\relax
24223 \let\@cftbsnum \cftsubsecpresnum
24224 \let\@cftasnum \cftsubsecaftersnum
24225 \let\@cftasnumb \cftsubsecaftersnumb
24226 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24227 {\cftsubsecfont #1}\nobreak
24228 \cftsubsecfillnum{#2}}
24229 \fi}
24230 \renewcommand*{\l@subsubsection}[2]{%
24231 \ifnum \c@tocdepth >\tw@
24232 \vskip \cftbeforesubsubsecskip
24233 {\if@RTL\rightskip\else\leftskip\fi \cftsubsubsecindent\relax
24234 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24235 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24236 \parindent \cftsubsubsecindent\relax\@afterindenttrue
24237 \interlinepenalty\@M
24238 \leavevmode
24239 \@tempdima \cftsubsubsecnumwidth\relax
24240 \let\@cftbsnum \cftsubsubsecpresnum
24241 \let\@cftasnum \cftsubsubsecaftersnum
24242 \let\@cftasnumb \cftsubsubsecaftersnumb
24243 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24244 {\cftsubsubsecfont #1}\nobreak
24245 \cftsubsubsecfillnum{#2}}
24246 \fi}
24247 \renewcommand*{\l@paragraph}[2]{%
24248 \ifnum \c@tocdepth >3\relax
24249 \vskip \cftbeforeparaskip
24250 {\if@RTL\rightskip\else\leftskip\fi \cftparaindent\relax
24251 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24252 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24253 \parindent \cftparaindent\relax\@afterindenttrue
24254 \interlinepenalty\@M
24255 \leavevmode
24256 \@tempdima \cftparanumwidth\relax
24257 \let\@cftbsnum \cftparapresnum
24258 \let\@cftasnum \cftparaaftersnum
24259 \let\@cftasnumb \cftparaaftersnumb
24260 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24261 {\cftparafont #1}\nobreak
24262 \cftparafillnum{#2}}
24263 \fi}
24264 \renewcommand*{\l@subparagraph}[2]{%
24265 \ifnum \c@tocdepth >4\relax
24266 \vskip \cftbeforesubparaskip
24267 {\if@RTL\rightskip\else\leftskip\fi \cftsubparaindent\relax
24268 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24269 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24270 \parindent \cftsubparaindent\relax\@afterindenttrue

```



```

24271 \interlinepenalty\@M
24272 \leavevmode
24273 \@tempdima \cftsubparanumwidth\relax
24274 \let\@cftbsnum \cftsubparapresnum
24275 \let\@cftasnum \cftsubparaaftersnum
24276 \let\@cftasnumb \cftsubparaaftersnumb
24277 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24278 {\cftsubparafont #1}\nobreak
24279 \cftsubparafillnum{#2}}
24280 \fi}
24281 \renewcommand*\l@figure}[2]{%
24282 \ifnum \c@lofdepth >\z@
24283 \vskip \cftbeforefigskip
24284 {\if@RTL\rightskip\else\leftskip\fi \cftfigindent\relax
24285 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24286 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24287 \parindent \cftfigindent\relax\@afterindenttrue
24288 \interlinepenalty\@M
24289 \leavevmode
24290 \@tempdima \cftfignumwidth\relax
24291 \let\@cftbsnum \cftfigpresnum
24292 \let\@cftasnum \cftfigaftersnum
24293 \let\@cftasnumb \cftfigaftersnumb
24294 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24295 {\cftfigfont #1}\nobreak
24296 \cftfigfillnum{#2}}
24297 \fi
24298 }
24299 \renewcommand*\l@table}[2]{%
24300 \ifnum\c@lotdepth >\z@
24301 \vskip \cftbeforetabskip
24302 {\if@RTL\rightskip\else\leftskip\fi \cfttabindent\relax
24303 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24304 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24305 \parindent \cfttabindent\relax\@afterindenttrue
24306 \interlinepenalty\@M
24307 \leavevmode
24308 \@tempdima \cfttabnumwidth\relax
24309 \let\@cftbsnum \cfttabpresnum
24310 \let\@cftasnum \cfttabaftersnum
24311 \let\@cftasnumb \cfttabaftersnumb
24312 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24313 {\cfttabfont #1}\nobreak
24314 \cfttabfillnum{#2}}
24315 \fi
24316 }
24317 \renewcommand*\cftl@subfig}{
24318 \renewcommand*\l@subfigure}[2]{%
24319 \ifnum \c@lofdepth > \toclevel@subfigure
24320 \vskip \cftbeforesubfigskip
24321 {\if@RTL\rightskip\else\leftskip\fi \cftsubfigindent\relax
24322 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24323 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24324 \parindent \cftsubfigindent\relax\@afterindenttrue

```





```

24325 \interlinepenalty\@M
24326 \leavevmode
24327 \@tempdima \cftsubfignumwidth\relax
24328 \let\@cftbsnum \cftsubfigpresnum
24329 \let\@cftasnum \cftsubfigaftersnum
24330 \let\@cftasnumb \cftsubfigaftersnumb
24331 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24332 {\cftsubfigfont ##1}\nobreak
24333 \cftsubfigfillnum{##2}}
24334 \fi
24335 }
24336 }
24337 \renewcommand{\@cftl@subtab}{
24338 \renewcommand*{\l@subtable}[2]{%
24339 \ifnum \c@lotdepth > \toclevel@subtable
24340 \vskip \cftbeforesubtabskip
24341 {\if@RTL\rightskip\else\leftskip\fi \cftsubtabindent\relax
24342 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24343 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
24344 \parindent \cftsubtabindent\relax\@afterindenttrue
24345 \interlinepenalty\@M
24346 \leavevmode
24347 \@tempdima \cftsubtabnumwidth\relax
24348 \let\@cftbsnum \cftsubtabpresnum
24349 \let\@cftasnum \cftsubtabaftersnum
24350 \let\@cftasnumb \cftsubtabaftersnumb
24351 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
24352 {\cftsubtabfont ##1}\nobreak
24353 \cftsubtabfillnum{##2}}
24354 \fi
24355 }
24356 }
24357 \renewcommand{\newlistentry}[4][\@empty]{%
24358 \@ifundefined{c@#2}{% check & set the counter
24359 \ifx \@empty#1\relax
24360 \newcounter{#2}
24361 \else
24362 \@ifundefined{c@#1}{\PackageWarning{tocloft}%
24363 {#1 has no counter for use as a `within'}
24364 \newcounter{#2}}%
24365 {\newcounter{#2}[#1}%
24366 \expandafter\edef\csname the#2\endcsname{%
24367 \expandafter\noexpand\csname the#1\endcsname\@SepMark\noexpand\arabic{#2}}}%
24368 \fi
24369 \setcounter{#2}{0}
24370 }
24371 {\PackageError{tocloft}{#2 has been previously defined}{\@eha}}
24372
24373 \@namedef{l@#2}##1##2{%
24374 \ifnum \@nameuse{c@#3depth} > #4\relax
24375 \vskip \@nameuse{cftbefore#2skip}
24376 {\if@RTL\rightskip\else\leftskip\fi \@nameuse{cft#2indent}\relax
24377 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg
24378 \parfillskip -\if@RTL\leftskip\else\rightskip\fi

```



```

24379 \parindent \@nameuse{cft#2indent}\relax\@afterindenttrue
24380 \interlinepenalty\@M
24381 \leavevmode
24382 \@tempdima \@nameuse{cft#2numwidth}\relax
24383 \expandafter\let\expandafter\@cftbsnum\csname cft#2presnum\endcsname
24384 \expandafter\let\expandafter\@cftasnum\csname cft#2aftersnum\endcsname
24385 \expandafter\let\expandafter\@cftasnumb\csname cft#2aftersnumb\endcsname
24386 \advance\if@RTL\rightskip\else\leftskip\fi\@tempdima \null\nobreak\hskip -\if@RTL\rightskip
24387 {\@nameuse{cft#2font}##1}\nobreak
24388 \@nameuse{cft#2fillnum}{##2}}
24389 \fi
24390 } % end of \l@#2
24391
24392 \expandafter\newlength\csname cftbefore#2skip\endcsname
24393 \setlength{\@nameuse{cftbefore#2skip}}{\z@ \@plus .2p@}
24394 \expandafter\newlength\csname cft#2indent\endcsname
24395 \expandafter\newlength\csname cft#2numwidth\endcsname
24396 \ifcase #4\relax % 0
24397 \setlength{\@nameuse{cft#2indent}}{0em}
24398 \setlength{\@nameuse{cft#2numwidth}}{1.5em}
24399 \or % 1
24400 \setlength{\@nameuse{cft#2indent}}{1.5em}
24401 \setlength{\@nameuse{cft#2numwidth}}{2.3em}
24402 \or % 2
24403 \setlength{\@nameuse{cft#2indent}}{3.8em}
24404 \setlength{\@nameuse{cft#2numwidth}}{3.2em}
24405 \or % 3
24406 \setlength{\@nameuse{cft#2indent}}{7.0em}
24407 \setlength{\@nameuse{cft#2numwidth}}{4.1em}
24408 \else % anything else
24409 \setlength{\@nameuse{cft#2indent}}{10.0em}
24410 \setlength{\@nameuse{cft#2numwidth}}{5.0em}
24411 \fi
24412 \@namedef{cft#2font}{\normalfont}
24413 \@namedef{cft#2presnum}{\}
24414 \@namedef{cft#2aftersnum}{\}
24415 \@namedef{cft#2aftersnumb}{\}
24416 \@namedef{cft#2dotsep}{\cftdotsep}
24417 \@namedef{cft#2leader}{\normalfont\cftdotfill{\@nameuse{cft#2dotsep}}}
24418 \@namedef{cft#2pagefont}{\normalfont}
24419 \@namedef{cft#2afterpnum}{\}
24420 \@namedef{toclevel@#2}{#4}
24421 \@namedef{cft#2fillnum}##1{%
24422 {\@nameuse{cft#2leader}}\nobreak
24423 \hb@xt@\@pnumwidth{\hfil\@nameuse{cft#2pagefont}##1}\@nameuse{cft#2afterpnum}\par}
24424 } % end \newlistentry
24425 \renewcommand{\cftchapterprecistoc}[1]{\addtocontents{toc}{%
24426 {\if@RTL\rightskip\else\leftskip\fi \cftchapindent\relax
24427 \advance\if@RTL\rightskip\else\leftskip\fi \cftchapnumwidth\relax
24428 \if@RTL\leftskip\else\rightskip\fi \@tocrmarg\relax
24429 \textit{#1}\protect\par}}}}

```

## 156 File tocbasic-xetex-bidi.def



```

24430 \ProvidesFile{tocbasic-xetex-bidi.def}[2022/06/15 v0.5 bidi adaptations for tocbasic package]
24431 \bidi@undef\scr@dte@def@l@undottedtocline
24432 \bidi@undef\scr@dte@undottedtocline@init
24433 \DeclareTOCEntryStyle{undottedtocline}{%
24434   \DefineTOCEntryLengthOption{indent}%
24435     {scr@tso@}{@indent}{entry indent}%
24436   \DefineTOCEntryLengthOption{numwidth}%
24437     {scr@tso@}{@numwidth}{entry number width}%
24438   \@ifundefined{#1tocdepth}{%
24439     \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24440       \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24441         \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24442           \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24443             \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24444               \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24445                 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24446                   \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24447                     \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24448                       \expandafter\let\csname #1tocdepth\expandafter\endcsname
24449                         \csname #1numdepth\endcsname
24450                     }%
24451                 }%
24452             }%
24453         }%
24454     }%
24455 }%
24456 }%
24457 }%
24458 }%
24459 }{}%
24460 \@ifundefined{scr@tso@#1@indent}{%
24461   \@ifundefined{scr@#1@tocindent}{%
24462     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24463       \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24464         \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
24465           \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
24466             \scr@ifundefinedorrelax{l@chapter}{%
24467               \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
24468                 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24469                   \Ifstr{#1}{subsubsection}{%
24470                     \@namedef{scr@tso@#1@indent}{3.8em}%
24471                 }%
24472               \Ifstr{#1}{paragraph}{%
24473                 \@namedef{scr@tso@#1@indent}{7em}%
24474             }%
24475           \Ifstr{#1}{subparagraph}{%
24476             \@namedef{scr@tso@#1@indent}{10em}%
24477           }%
24478         }%
24479     }%
24480 }%
24481 }%
24482 }%
24483 }{}%

```



```

24484 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24485 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
24486 \Ifstr{#1}{subsubsection}{%
24487 \@namedef{scr@tso@#1@indent}{7.0em}%
24488 }{%
24489 \Ifstr{#1}{paragraph}{%
24490 \@namedef{scr@tso@#1@indent}{10em}%
24491 }{%
24492 \Ifstr{#1}{subparagraph}{%
24493 \@namedef{scr@tso@#1@indent}{12em}%
24494 }{%
24495 }%
24496 }%
24497 }%
24498 }%
24499 }%
24500 }%
24501 }%
24502 }%
24503 }%
24504 }%
24505 }{%
24506 \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24507 }%
24508 }{%
24509 \@ifundefined{scr@tso@#1@numwidth}{%
24510 \ifundefined{scr@#1@tocnumwidth}{%
24511 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24512 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24513 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
24514 \scr@ifundefinedorrelax{chapter}{%
24515 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
24516 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24517 \Ifstr{#1}{subsubsection}{%
24518 \@namedef{scr@tso@#1@numwidth}{3.2em}%
24519 }{%
24520 \Ifstr{#1}{paragraph}{%
24521 \@namedef{scr@tso@#1@numwidth}{4.1em}%
24522 }{%
24523 \Ifstr{#1}{subparagraph}{%
24524 \@namedef{scr@tso@#1@numwidth}{5m}%
24525 }{%
24526 }%
24527 }%
24528 }%
24529 }%
24530 }%
24531 }{%
24532 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
24533 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
24534 \Ifstr{#1}{subsubsection}{%
24535 \@namedef{scr@tso@#1@numwidth}{3.1em}%
24536 }{%
24537 \Ifstr{#1}{paragraph}{%

```



```

24538         \@namedef{scr@tso@#1@numwidth}{5em}%
24539     }{%
24540         \Ifstr{#1}{subparagraph}{%
24541             \@namedef{scr@tso@#1@numwidth}{6em}%
24542         }{%
24543             }%
24544         }%
24545     }%
24546 }%
24547 }%
24548 }%
24549 }%
24550 }%
24551 }%
24552 }{%
24553     \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
24554 }%
24555 }{%}%
24556 }]{%
24557 \ifnum \c@tocdepth >\numexpr \@nameuse{#1@tocdepth}-\@ne\relax
24558     \ifnum \@nameuse{#1@tocdepth}<\@ne
24559         \scr@ifundefinedorrelax{chapter}{%
24560             \addpenalty\@secpenalty
24561             \addvspace{1.0em \@plus\p@}%
24562         }{%
24563             \addpenalty{-\@highpenalty}%
24564             \vskip 1.0em \@plus\p@
24565         }%
24566     \else
24567         \addpenalty\@secpenalty
24568         \addvspace{1.0em \@plus\p@}%
24569     \fi
24570     \setlength\@tempdima{\@nameuse{scr@tso@#1@numwidth}}%
24571     \begingroup
24572         \parindent \z@ \bidi@rightskip \@pnumwidth
24573         \parfillskip -\@pnumwidth
24574         \leavevmode
24575         \bfseries
24576         \advance\bidi@leftskip\@tempdima
24577         \Iftocfeature{\@currentt}{noindent}{%
24578             \hskip -\bidi@leftskip
24579         }{%
24580             \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
24581             \hskip -\dimexpr \bidi@leftskip-\@nameuse{scr@tso@#1@indent}\relax
24582         }%
24583         ##1%
24584         \nobreak
24585         \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
24586         \par
24587         \penalty\@highpenalty
24588     \endgroup
24589 \fi
24590 }
24591

```



```

24592 \bidi@undef\scr@dte@def@1@largetocline
24593 \bidi@undef\scr@dte@largetocline@init
24594 \DeclareTOCEntryStyle{largetocline}[{%
24595   \DefineTOCEntryLengthOption{indent}%
24596   {scr@tso@}{@indent}{entry indent}%
24597   \@ifundefined{#1tocdepth}{%
24598     \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24599     \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24600     \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24601     \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24602     \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24603     \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24604     \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24605     \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24606     \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24607     \expandafter\let\csname #1tocdepth\expandafter\endcsname
24608     \csname #1numdepth\endcsname
24609     }%
24610   }%
24611 }%
24612 }%
24613 }%
24614 }%
24615 }%
24616 }%
24617 }%
24618 }-}%
24619 \@ifundefined{scr@tso@#1@indent}{%
24620   \@ifundefined{scr@#1@tocindent}{%
24621     \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24622     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24623     \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
24624     \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
24625     \scr@ifundefinedorrelax{1@chapter}{%
24626     \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
24627     \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24628     \Ifstr{#1}{subsubsection}{%
24629     \@namedef{scr@tso@#1@indent}{3.8em}%
24630     }%
24631     \Ifstr{#1}{paragraph}{%
24632     \@namedef{scr@tso@#1@indent}{7em}%
24633     }%
24634     \Ifstr{#1}{subparagraph}{%
24635     \@namedef{scr@tso@#1@indent}{10em}%
24636     }%
24637     }%
24638   }%
24639 }%
24640 }%
24641 }%
24642 }-}%
24643 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24644 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
24645 \Ifstr{#1}{subsubsection}{%

```



```

24646         \@namedef{scr@tso@#1@indent}{7.0em}%
24647     }{%
24648         \Ifstr{#1}{paragraph}{%
24649             \@namedef{scr@tso@#1@indent}{10em}%
24650         }{%
24651             \Ifstr{#1}{subparagraph}{%
24652                 \@namedef{scr@tso@#1@indent}{12em}%
24653             }{%
24654                 }%
24655             }%
24656         }%
24657     }%
24658 }%
24659 }%
24660 }%
24661 }%
24662 }%
24663 }%
24664 }{%
24665     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24666 }%
24667 }{%
24668 }]{%
24669 \ifnum \c@tocdepth >\numexpr \@nameuse{#1tocdepth}-\@ne\relax
24670     \ifnum \@nameuse{#1tocdepth}<\@ne
24671         \scr@ifundefinedorrelax{chapter}{%
24672             \addpenalty\@secpenalty
24673             \addvspace{2.25em \@plus\p@}%
24674         }{%
24675             \addpenalty{-\@highpenalty}%
24676             \addvspace{2.25em \@plus\p@}%
24677         }%
24678     \else
24679         \addpenalty\@secpenalty
24680         \addvspace{2.25em \@plus\p@}%
24681     \fi
24682     \setlength\@tempdima{3em}%
24683     \begingroup
24684         \parindent \z@ \bidi@rightskip \@pnumwidth
24685         \parfillskip -\@pnumwidth
24686         \leavevmode
24687         \large
24688         \bfseries
24689         \Iftocfeature{\@currentt}{noindent}{%
24690             }{%
24691                 \advance\bidi@leftskip\@nameuse{scr@tso@#1@indent}%
24692             }%
24693         ##1%
24694         \hfil \nobreak\hb@xt@\@pnumwidth{\hss ##2}%
24695         \par
24696         \nobreak
24697         \ifnum 0=
24698             \scr@ifundefinedorrelax{chapter}{\if@compatibility 1\else 0\fi}{1}\relax
24699         \global\@nobreaktrue

```



```

24700         \everypar{\global\@nobreakfalse\everypar{}}%
24701         \fi
24702     \endgroup
24703 \fi
24704 }
24705
24706 \renewcommand*{\scr@dte@tocline}[3]{%
24707     \ifnum \@nameuse{#1tocdepth}>\c@tocdepth
24708     \else
24709         \tocbasic@DependOnPenaltyAndTOCLevel{#1}%
24710         \addvspace{\@nameuse{scr@tso@#1@beforeskip}}\relax
24711         \@nameuse{Ifscr@tso@#1@dynindent}{%
24712             \expandafter\ifx\c@name scr@tso@#1@indentfollows\endcsname\@empty
24713             \PackageWarning{tocbasic}{`dynindent' for `#1' not available}%
24714         \else
24715             \edef\reserved@a{\@nameuse{scr@tso@#1@indentfollows}}%
24716             \@for \reserved@a:=\reserved@a\do {%
24717                 \scr@trim@spaces\reserved@a
24718                 \ifx\reserved@a\@empty\else
24719                     \scr@ifundefinedorrelax{\reserved@a tocdepth}{%
24720                         }{%
24721                             \ifnum \@nameuse{\reserved@a tocdepth}<\@nameuse{#1tocdepth}%
24722                                 \@tempdima\@nameuse{scr@tso@\reserved@a @indent}\relax
24723                                 \@nameuse{Ifscr@tso@\reserved@a @dynnumwidth}{%
24724                                     \scr@ifundefinedorrelax
24725                                         {scr@dte@\reserved@a @lastmaxnumwidth}{%
24726                                             \advance\@tempdima
24727                                                 \@nameuse{scr@tso@\reserved@a @numwidth}}\relax
24728                                     }{%
24729                                         \advance\@tempdima
24730                                         \@nameuse{scr@dte@\reserved@a @lastmaxnumwidth}}\relax
24731                                     }%
24732                                 }{%
24733                                     \advance\@tempdima
24734                                     \@nameuse{scr@tso@\reserved@a @numwidth}}\relax
24735                                 }%
24736                                 \ifdim \@tempdima>\@nameuse{scr@tso@#1@indent}\relax
24737                                 \expandafter\edef\c@name scr@tso@#1@indent\endcsname
24738                                 {\the\@tempdima}%
24739                             \fi
24740                         \fi
24741                     }%
24742                 \fi
24743             }%
24744         \fi
24745     }{%
24746     {%
24747         \Iftocfeature{\@currentx}{noindent}{%
24748             \bidi@leftskip \z@
24749         }{%
24750             \bidi@leftskip \@nameuse{scr@tso@#1@indent}}\relax
24751     }%
24752     \bidi@rightskip \@nameuse{scr@tso@#1@rightindent}}\relax
24753     \parfillskip -\bidi@rightskip

```





```

24754 \nameuse{Ifscr@tso@#1@raggedpage}{%
24755 \addtolength{\parfillskip}{\z@ \@plus 1fil}%
24756 }{}%
24757 \Iftocfeature{\@currentx}{noindent}{%
24758 \parindent \z@
24759 }{%
24760 \parindent \@nameuse{scr@tso@#1@indent}\relax
24761 }%
24762 \@afterindenttrue
24763 \interlinepenalty\@M
24764 \expandafter\ifx\csname ragged#1entry\endcsname\raggedright
24765 \addtolength\@bidi@rightskip\@flushglue
24766 \else
24767 \def\reserved@a{\raggedright}%
24768 \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
24769 \addtolength\@bidi@rightskip\@flushglue
24770 \else
24771 \renewcommand\reserved@a{\raggedright}%
24772 \expandafter\ifx\csname ragged#1entry\endcsname\reserved@a
24773 \addtolength\@bidi@rightskip\@flushglue
24774 \fi
24775 \fi
24776 \fi
24777 \leavevmode
24778 \@tempdima \@nameuse{scr@tso@#1@numwidth}\relax
24779 \@nameuse{Ifscr@tso@#1@dynnumwidth}{%
24780 \scr@ifundefinedorrelax{scr@dte@#1@lastmaxnumwidth}{}%
24781 \ifdim \@nameuse{scr@dte@#1@lastmaxnumwidth}>\@tempdima
24782 \@tempdima\@nameuse{scr@dte@#1@lastmaxnumwidth}\relax
24783 \fi
24784 }%
24785 }{}%
24786 \advance\@bidi@leftskip \@tempdima
24787 \null\nobreak\hskip -\@bidi@leftskip
24788 {%
24789 \usetocbasicnumberline
24790 \let\scr@dte@numberline@box\numberline@box
24791 \def\numberline@box##1{%
24792 \sbox\scr@dte@tocline@numbox{\@nameuse{scr@tso@#1@numberformat}{##1}}%
24793 \global\scr@dte@tocline@numberwidth
24794 \dimexpr\wd\scr@dte@tocline@numbox+\@nameuse{scr@tso@#1@numsep}\relax
24795 \relax
24796 \ifdim \scr@dte@tocline@numberwidth
24797 >\@nameuse{scr@dte@#1@maxnumwidth}\relax
24798 \global\@nameuse{scr@dte@#1@maxnumwidth}\scr@dte@tocline@numberwidth
24799 \fi
24800 \@nameuse{Ifscr@tso@#1@dynnumwidth}{}%
24801 \ifdim \scr@dte@tocline@numberwidth
24802 >\dimexpr \@nameuse{scr@tso@#1@numwidth}%
24803 +\@nameuse{scr@tso@#1@numsep}\relax\relax
24804 \PackageWarning{tocbasic}{%
24805 number width of #1 toc entries should be
24806 increased!\MessageBreak
24807 Currently used number width =

```



```

24808         \the\wd\scr@dte@tocline@numbox,\MessageBreak
24809         Wanted number separation
24810         \space\space\space =
24811         \the\dimexpr\@nameuse{scr@tso@#1@numsep}\relax,\MessageBreak
24812         Reserved number width \space\space\space\space\space\space =
24813         \the\dimexpr\@nameuse{scr@tso@#1@numwidth}\relax%
24814     }%
24815     \fi
24816 }%
24817 \scr@dte@numberline@box{\@nameuse{scr@tso@#1@numberformat}{##1}}%
24818 \@nameuse{Ifscr@tso@#1@breakafternumber}{%
24819     {\parfillskip\@flushglue\par}\nobreak\hskip-\bidi@leftskip
24820 }{}%
24821 }%
24822 {\@nameuse{scr@tso@#1@entryformat}{%
24823     #2%
24824     \nobreak
24825     {%
24826         \normalfont\normalsize\@nameuse{scr@tso@#1@linefill}%
24827         \nobreak
24828         \expandafter\let\expandafter\scr@dte@pagenumberwidth
24829         \csname scr@tso@#1@pagenumberwidth\endcsname
24830         \@nameuse{scr@tso@#1@pagenumberbox}{%
24831             \@nameuse{scr@tso@#1@pagenumberformat}{#3}%
24832         }%
24833     }%
24834 }}\@par
24835 }%
24836 }%
24837 \tocbasic@SetPenaltyByTOCLevel{#1}%
24838 \fi
24839 }
24840
24841
24842 \bidi@undef\scr@dte@def@l@tocline
24843 \bidi@undef\scr@dte@tocline@init
24844 \DeclareTOCEntryStyle{tocline}[%
24845     \DefineTOCEntryLengthOption{beforeskip}%
24846     {scr@tso@}{@beforeskip}{vertical skip before the entry}%
24847     \DefineTOCEntryIfOption{breakafternumber}%
24848     {scr@tso@}{@breakafternumber}{line break after number flag}%
24849     \DefineTOCEntryIfOption{dynnumwidth}%
24850     {scr@tso@}{@dynnumwidth}{dynamic number width flag}%
24851     \DefineTOCEntryListOption{indentfollows}%
24852     {scr@tso@}{@indentfollows}{list of levels that define the indent}%
24853     \DefineTOCEntryIfOption{dynindent}%
24854     {scr@tso@}{@dynindent}{dynamic indent width flag}%
24855     \DefineTOCEntryCommandOption{entryformat}%
24856     {scr@tso@}{@entryformat}[1]{entry format}%
24857     \DefineTOCEntryCommandOption{entrynumberformat}%
24858     {scr@tso@}{@numberformat}[1]{entry number format}%
24859     \DefineTOCEntryCommandOption{linefill}[\TOCLineLeaderFill]%
24860     {scr@tso@}{@linefill}{filling between text and page number}%
24861     \DefineTOCEntryLengthOption{numsep}%

```



```

24862 {scr@tso@}{@numsep}{entry number separation}%
24863 \DefineTOCEntryCommandOption{onstarthigherlevel}%
24864 {scr@tso@}{@LastTOCLevelWasLower}{start higher level entry hook}%
24865 \DefineTOCEntryCommandOption{onstartlowerlevel}%
24866 {scr@tso@}{@LastTOCLevelWasHigher}{start lower level entry hook}%
24867 \DefineTOCEntryCommandOption{onstartsamelevel}%
24868 {scr@tso@}{@LastTOCLevelWasSame}{start same level entry hook}%
24869 \DefineTOCEntryCommandOption{pagenumberbox}%
24870 {scr@tso@}{@pagenumberbox}[1]{page number box}%
24871 \DefineTOCEntryCommandOption{pagenumberformat}%
24872 {scr@tso@}{@pagenumberformat}[1]{page number format}%
24873 \DefineTOCEntryLengthOption{pagenumberwidth}%
24874 {scr@tso@}{@pagenumberwidth}{width of page number box}%
24875 \DefineTOCEntryLengthOption{rightindent}%
24876 {scr@tso@}{@rightindent}{entry's text right indent}%
24877 \DefineTOCEntryOption{raggedentrytext}[true]{%
24878 \FamilySetBool{KOMAarg}{raggedentrytext}{@tempswa}{##1}%
24879 \ifx\FamilyKeyState\FamilyKeyStateProcessed
24880 \if@tempswa
24881 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
24882 \raggedright
24883 \else
24884 \expandafter\let\csname ragged\scr@dte@current entry\endcsname
24885 \relax
24886 \fi
24887 \fi
24888 }%
24889 \DefineTOCEntryIfOption{raggedpagenumber}%
24890 {scr@tso@}{@raggedpage}{page number ragged flag}%
24891 \DefineTOCEntryLengthOption{indent}%
24892 {scr@tso@}{@indent}{entry indent}%
24893 \DefineTOCEntryLengthOption{numwidth}%
24894 {scr@tso@}{@numwidth}{entry number width}%
24895 \scr@ifundefinedorrelax{#1tocdepth}{%
24896 \Ifstrstart{#1}{sub}{%
24897 \scr@ifundefinedorrelax{\scr@dte@nosub{#1}tocdepth}{%
24898 \expandafter\edef\csname #1tocdepth\endcsname{%
24899 \the\numexpr \noexpand\@nameuse{\scr@dte@nosub{#1}tocdepth}+\@ne\relax
24900 }%
24901 }%
24902 }{}%
24903 }{}%
24904 \@ifundefined{#1tocdepth}{%
24905 \Ifstr{#1}{part}{\@namedef{#1tocdepth}{-1}}{%
24906 \Ifstr{#1}{chapter}{\@namedef{#1tocdepth}{0}}{%
24907 \Ifstr{#1}{section}{\@namedef{#1tocdepth}{1}}{%
24908 \Ifstr{#1}{subsection}{\@namedef{#1tocdepth}{2}}{%
24909 \Ifstr{#1}{subsubsection}{\@namedef{#1tocdepth}{3}}{%
24910 \Ifstr{#1}{paragraph}{\@namedef{#1tocdepth}{4}}{%
24911 \Ifstr{#1}{subparagraph}{\@namedef{#1tocdepth}{5}}{%
24912 \Ifstr{#1}{figure}{\@namedef{#1tocdepth}{1}}{%
24913 \Ifstr{#1}{table}{\@namedef{#1tocdepth}{1}}{%
24914 \expandafter\let\csname #1tocdepth\endcsname
24915 \csname #1numdepth\endcsname

```



```

24916         }%
24917     }%
24918 }%
24919 }%
24920 }%
24921 }%
24922 }%
24923 }%
24924 }%
24925 }{}%
24926 \scr@ifundefinedorrelax{scr@tso@#1@indent}{%
24927     \@ifdefined{scr@#1@tocindent}{%
24928         \Ifstrstart{#1}{sub}{%
24929             \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@indent}{%
24930                 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}%
24931                     \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24932                         \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
24933                     \relax
24934                 }%
24935             }%
24936         }{%
24937             \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{%
24938                 \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24939                     \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}}%
24940                 \relax
24941             }%
24942         }{%
24943             \expandafter\edef\csname scr@tso@#1@indent\endcsname{%
24944                 \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@indent}%
24945                     +\noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}}%
24946                 \relax
24947             }%
24948         }%
24949     }%
24950 }{}%
24951 }{%
24952     \@namedef{scr@tso@#1@indent}{\@nameuse{scr@#1@tocindent}}%
24953 }%
24954 }{}%
24955 \scr@ifundefinedorrelax{scr@tso@#1@pagenumberwidth}{%
24956     \Ifstrstart{#1}{sub}{%
24957         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@pagenumberwidth}{%
24958             \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
24959         }{%
24960             \expandafter\let
24961             \csname scr@tso@#1@pagenumberwidth\expandafter\endcsname
24962             \csname scr@tso@\scr@dte@nosub{#1}@pagenumberwidth\endcsname
24963         }%
24964     }{%
24965         \@namedef{scr@tso@#1@pagenumberwidth}{\@pnumwidth}%
24966     }%
24967 }{}%
24968 \scr@ifundefinedorrelax{scr@tso@#1@rightindent}{%
24969     \Ifstrstart{#1}{sub}{%

```



```

24970 \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@rightindent}{%
24971 \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
24972 }{%
24973 \expandafter\let
24974 \csname scr@tso@#1@rightindent\expandafter\endcsname
24975 \csname scr@tso@\scr@dte@nosub{#1}@rightindent\endcsname
24976 }%
24977 }{%
24978 \@namedef{scr@tso@#1@rightindent}{\@tocrmarg}%
24979 }%
24980 }{}%
24981 \@ifundefined{scr@tso@#1@indent}{%
24982 \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24983 \Ifstr{#1}{table}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24984 \Ifstr{#1}{part}{\@namedef{scr@tso@#1@indent}{0em}}{%
24985 \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@indent}{0em}}{%
24986 \scr@ifundefinedorrelax{l@chapter}{%
24987 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{0pt}}{%
24988 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
24989 \Ifstr{#1}{subsubsection}{%
24990 \@namedef{scr@tso@#1@indent}{3.8em}%
24991 }{%
24992 \Ifstr{#1}{paragraph}{%
24993 \@namedef{scr@tso@#1@indent}{7em}%
24994 }{%
24995 \Ifstr{#1}{subparagraph}{%
24996 \@namedef{scr@tso@#1@indent}{10em}%
24997 }{%
24998 }%
24999 }%
25000 }%
25001 }%
25002 }%
25003 }{%
25004 \Ifstr{#1}{section}{\@namedef{scr@tso@#1@indent}{1.5em}}{%
25005 \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@indent}{3.8em}}{%
25006 \Ifstr{#1}{subsubsection}{%
25007 \@namedef{scr@tso@#1@indent}{7.0em}%
25008 }{%
25009 \Ifstr{#1}{paragraph}{%
25010 \@namedef{scr@tso@#1@indent}{10em}%
25011 }{%
25012 \Ifstr{#1}{subparagraph}{%
25013 \@namedef{scr@tso@#1@indent}{12em}%
25014 }{%
25015 }%
25016 }%
25017 }%
25018 }%
25019 }%
25020 }%
25021 }%
25022 }%
25023 }%

```



```

25024     }%
25025   }{}%
25026   \scr@ifundefinedorrelax{scr@tso@#1@numwidth}{%
25027     \scr@ifundefinedorrelax{scr@#1@tocnumwidth}{%
25028       \Ifstrstart{#1}{sub}{%
25029         \scr@ifundefinedorrelax{scr@tso@\scr@dte@nosub{#1}@numwidth}{}%
25030         \expandafter\edef\csname scr@tso@#1@numwidth\endcsname{%
25031           \glueexpr \noexpand\@nameuse{scr@tso@\scr@dte@nosub{#1}@numwidth}%
25032             +.9em%
25033         }%
25034       }%
25035     }%
25036   }{}%
25037   }{%
25038     \@namedef{scr@tso@#1@numwidth}{\@nameuse{scr@#1@tocnumwidth}}%
25039   }%
25040 }{}%
25041 \@ifundefined{scr@tso@#1@numwidth}{%
25042   \Ifstr{#1}{figure}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25043     \Ifstr{#1}{table}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25044       \Ifstr{#1}{chapter}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
25045         \scr@ifundefinedorrelax{chapter}{%
25046           \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{1.5em}}{%
25047             \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25048               \Ifstr{#1}{subsubsection}{%
25049                 \@namedef{scr@tso@#1@numwidth}{3.2em}%
25050               }{%
25051                 \Ifstr{#1}{paragraph}{%
25052                   \@namedef{scr@tso@#1@numwidth}{4.1em}%
25053                 }{%
25054                   \Ifstr{#1}{subparagraph}{%
25055                     \@namedef{scr@tso@#1@numwidth}{5em}%
25056                   }{%
25057                     }%
25058                   }%
25059                 }%
25060               }%
25061             }%
25062           }{%
25063             \Ifstr{#1}{section}{\@namedef{scr@tso@#1@numwidth}{2.3em}}{%
25064               \Ifstr{#1}{subsection}{\@namedef{scr@tso@#1@numwidth}{3.2em}}{%
25065                 \Ifstr{#1}{subsubsection}{%
25066                   \@namedef{scr@tso@#1@numwidth}{3.1em}%
25067                 }{%
25068                   \Ifstr{#1}{paragraph}{%
25069                     \@namedef{scr@tso@#1@numwidth}{5em}%
25070                   }{%
25071                     \Ifstr{#1}{subparagraph}{%
25072                       \@namedef{scr@tso@#1@numwidth}{6em}%
25073                     }{%
25074                       }%
25075                     }%
25076                   }%
25077                 }%

```



```

25078         }%
25079     }%
25080 }%
25081 }%
25082 }%
25083 }{}%
25084 \expandafter\renewcommand%
25085 \csname scr@tso@#1@LastTOCLevelWasLower\endcsname{\LastTOCLevelWasLower}%
25086 \expandafter\renewcommand%
25087 \csname scr@tso@#1@LastTOCLevelWasSame\endcsname{\LastTOCLevelWasSame}%
25088 \expandafter\renewcommand%
25089 \csname scr@tso@#1@LastTOCLevelWasHigher\endcsname{\LastTOCLevelWasHigher}%
25090 \@ifundefined{scr@tso@#1@beforeskip}{%
25091     \Ifstr{#1}{part}{%
25092         \@namedef{scr@tso@#1@beforeskip}{\glueexpr 2.25em \@plus\p@\relax}%
25093     }{%
25094         \Ifstr{#1}{chapter}{%
25095             \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
25096         }{%
25097             \Ifstr{#1}{section}{%
25098                 \scr@ifundefinedorrelax{1@chapter}{%
25099                     \@namedef{scr@tso@#1@beforeskip}{\glueexpr 1.0em \@plus\p@\relax}%
25100                 }{}%
25101             }{}%
25102         }%
25103     }%
25104     \expandafter\renewcommand\expandafter*%
25105     \csname scr@tso@#1@beforeskip\endcsname{\glueexpr \z@ plus .2\p@\relax}%
25106 }{}%
25107 \@ifundefined{scr@dte@#1@maxnumwidth}{%
25108     \expandafter\newlength\csname scr@dte@#1@maxnumwidth\endcsname
25109     \setlength{\@nameuse{scr@dte@#1@maxnumwidth}}{\z@}%
25110 }{}%
25111 \renewcommand*{\scr@dte@donumwidth}{}%
25112 \g@addto@macro{\scr@dte@donumwidth}{\do{#1}}%
25113 \expandafter\renewcommand\expandafter*%
25114 \csname scr@tso@#1@numsep\endcsname{.4em}%
25115 \expandafter\renewcommand%
25116 \csname scr@tso@#1@numberformat\endcsname[1]{##1}%
25117 \Ifstr{#1}{part}{%
25118     \expandafter\providecommand%
25119     \csname scr@tso@#1@entryformat\endcsname[1]{\large\bfseries ##1}%
25120 }{%
25121     \Ifstr{#1}{chapter}{%
25122         \expandafter\providecommand%
25123         \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
25124     }{%
25125         \scr@ifundefinedorrelax{1@chapter}{%
25126             \Ifstr{#1}{section}{%
25127                 \expandafter\providecommand%
25128                 \csname scr@tso@#1@entryformat\endcsname[1]{\bfseries ##1}%
25129             }{}%
25130         }{}%
25131         \expandafter\providecommand%

```



```

25132     \csname scr@tso@#1@entryformat\endcsname[1]{##1}%
25133   }%
25134 }%
25135 \expandafter\renewcommand
25136 \csname Ifscr@tso@#1@breakafternumber\endcsname[2]{##2}%
25137 \@ifundefined{scr@tso@#1@linefill}{%
25138   \Ifstr{#1}{part}{%
25139     \@namedef{scr@tso@#1@linefill}{\hfill}%
25140   }{%
25141     \Ifstr{#1}{chapter}{%
25142       \@namedef{scr@tso@#1@linefill}{\hfill}%
25143     }{%
25144       \scr@ifundefinedorrelax{1@chapter}{%
25145         \Ifstr{#1}{section}{%
25146           \@namedef{scr@tso@#1@linefill}{\hfill}%
25147         }{}%
25148       }{}%
25149       \expandafter\renewcommand%
25150       \csname scr@tso@#1@linefill\endcsname{\TOCLineLeaderFill\relax}%
25151     }%
25152   }%
25153 }{}%
25154 \expandafter\renewcommand\csname Ifscr@tso@#1@raggedpage\endcsname[2]{##2}%
25155 \Ifstr{#1}{part}{%
25156   \expandafter\providecommand%
25157   \csname scr@tso@#1@pagenumberformat\endcsname[1]{\large\bfseries ##1}%
25158 }{%
25159   \Ifstr{#1}{chapter}{%
25160     \expandafter\providecommand%
25161     \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
25162   }{%
25163     \scr@ifundefinedorrelax{1@chapter}{%
25164       \Ifstr{#1}{section}{%
25165         \expandafter\providecommand%
25166         \csname scr@tso@#1@pagenumberformat\endcsname[1]{\bfseries ##1}%
25167       }{}%
25168     }{}%
25169     \expandafter\providecommand%
25170     \csname scr@tso@#1@pagenumberformat\endcsname[1]{%
25171       {\normalfont\normalcolor ##1}}%
25172   }%
25173 }%
25174 \expandafter\renewcommand%
25175 \csname scr@tso@#1@pagenumberbox\endcsname[1]{%
25176   \hb@xt@{\@nameuse{scr@dte@pagenumberwidth}}{\hfil ##1}}%
25177 \expandafter\renewcommand\csname Ifscr@tso@#1@dynnumwidth\endcsname[2]{##2}%
25178 \expandafter\renewcommand\csname Ifscr@tso@#1@dynindent\endcsname[2]{##2}%
25179 \scr@ifundefinedorrelax{scr@tso@#1@indentfollows}{%
25180   \Ifstrstart{#1}{sub}{%
25181     \expandafter\edef\csname scr@tso@#1@indentfollows\endcsname{%
25182       \scr@dte@nosub{#1}%
25183     }%
25184   }{}%
25185   \expandafter\let\csname scr@tso@#1@indentfollows\endcsname\empty

```





```

25186     }%
25187   }{}%
25188 }]{%
25189   \scr@dte@tocline{#1}{##1}{##2}%
25190 }
25191
25192 \if@bidi@csdef{scr@tso@figure@pagenumberformat}{%
25193   \renewcommand*{\scr@tso@figure@pagenumberformat}[1]{%
25194     {\normalfont\normalcolor #1}%
25195   }%
25196 }{}
25197
25198 \if@bidi@csdef{scr@tso@table@pagenumberformat}{%
25199   \renewcommand*{\scr@tso@table@pagenumberformat}[1]{%
25200     {\normalfont\normalcolor #1}%
25201   }%
25202 }{}
25203

```

## 157 File tocstyle-xetex-bidi.def

```

25204 \ProvidesFile{tocstyle-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for tocstyle package]
25205 \renewcommand*{\tocstyle@dottedtocline}[5]{%
25206   \let\numberline\tocstyle@numberline
25207   \ifnum #1>\c@tocdepth \else
25208     \if@tocstyle@penalties
25209       \begingroup
25210         \@tempcnta 20010
25211         \advance \@tempcnta by -#1
25212         \ifnum \@tempcnta>\lastpenalty
25213           \aftergroup\penalty\aftergroup\@lowpenalty
25214         \fi
25215       \endgroup
25216     \fi
25217     \edef\tocstyledepth{#1}%
25218     \tocstyle@activate@features
25219     \ifx\tocstyle@feature@entryvskip\relax
25220       \vskip \z@ \@plus.2\p@
25221     \else
25222       \addvspace{\tocstyle@feature@entryvskip}%
25223     \fi
25224   {%
25225     \parskip \z@ \parindent \z@ \if@RTL\rightskip\else\leftskip\fi \z@ \if@RTL\leftskip\else\rightskip\fi
25226     \tocstyle@feature@raggedhook
25227     \@tempdima #3\relax
25228     \@tempdimb #2\relax
25229     \typeout{m (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25230     \ifnum #1>\z@\relax
25231       \@tempcnta #1\relax \advance\@tempcnta \m@ne
25232       \ifcsname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25233         \ifcsname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25234           \@tempdimb
25235           \csname tocstyle@skipwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25236           \advance\@tempdimb

```



```

25237         \csname tocstyle@numwidth@\tocstyleTOC @\the\@tempcnta\endcsname
25238     \fi
25239 \fi
25240 \fi
25241 \typeout{C (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25242 \ifcsname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname
25243     \ifdim \@tempdimb>
25244         \csname tocstyle@skipwidth@\tocstyleTOC @#1\endcsname\relax
25245         \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
25246             @#1\endcsname{\the\@tempdimb}%
25247     \fi
25248 \else
25249     \expandafter\xdef\csname tocstyle@skipwidth@\tocstyleTOC
25250         @#1\endcsname{\the\@tempdimb}%
25251 \fi
25252 \iftocstyle@autolength
25253     \ifcsname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
25254         \@tempdimb \csname tocstyle@maxskipwidth@\tocstyleTOC @#1\endcsname
25255         \relax
25256     \fi
25257     \ifcsname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
25258         \@tempdima \csname tocstyle@maxnumwidth@\tocstyleTOC @#1\endcsname
25259         \relax
25260     \fi
25261     \typeout{a (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25262     \typeout{A (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25263 \else
25264     \@tempdimb #2\relax
25265     \typeout{M (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25266 \fi
25267 \ifcsname tocstyle@unumwidth@\tocstyleTOC @\endcsname
25268     \ifdim \@tempdima>
25269         \csname tocstyle@unumwidth@\tocstyleTOC @\endcsname\relax
25270         \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
25271             @\endcsname{\the\@tempdima}%
25272     \fi
25273 \else
25274     \expandafter\xdef\csname tocstyle@unumwidth@\tocstyleTOC
25275         @\endcsname{\the\@tempdima}%
25276 \fi
25277 \ifcase\tocstyle@indentstyle\relax\else
25278     \@tempdimb \z@
25279     \ifcsname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
25280         \@tempdima \csname tocstyle@maxunumwidth@\tocstyleTOC @\endcsname
25281         \relax
25282     \fi
25283     \typeout{s (\tocstyleTOC, \tocstyledepth): \the\@tempdima}%
25284     \typeout{S (\tocstyleTOC, \tocstyledepth): \the\@tempdimb}%
25285 \fi
25286 \advance\parindent \@tempdimb\@afterindenttrue
25287 \advance\if@RTL\rightskip\else\leftskip\fi \parindent
25288 \advance\if@RTL\leftskip\else\rightskip\fi \@tocrmarg
25289 \parfillskip -\if@RTL\leftskip\else\rightskip\fi
25290 \ifx\tocstyle@feature@parfillskip\relax\else

```



```

25291      \advance\parfillskip \tocstyle@feature@parfillskip\relax
25292      \fi
25293      \interlinepenalty\@M
25294      \leavevmode
25295      \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima
25296      \null\nobreak
25297      \iftocstyle@indentnotnumbered\else
25298      \hskip -\if@RTL\rightskip\else\leftskip\fi
25299      \fi
25300      \tocstyle@feature@entryhook
25301      {#4}\nobreak
25302      \ifx\tocstyle@feature@leaders\relax
25303      \leaders\hbox{$\m@th
25304      \mkern \@dotsep mu\hbox{\tocstyle@feature@dothook .}%
25305      \mkern \@dotsep mu$}\hfill
25306      \else
25307      \tocstyle@feature@leaders
25308      \fi
25309      \nobreak
25310      \ifx\tocstyle@feature@pagenumberbox\relax
25311      \hb@xt@\@pnumwidth{\hfil\tocstyle@feature@pagenumberhook #5}%
25312      \else
25313      \tocstyle@feature@pagenumberbox{\tocstyle@feature@pagenumberhook #5}%
25314      \fi
25315      \par
25316      }%
25317      \iftocstyle@penalties
25318      \bgroup
25319      \@tempcnta 20009
25320      \advance\@tempcnta by -#1
25321      \edef\reserved@a{\egroup\penalty\the\@tempcnta\relax}%
25322      \reserved@a
25323      \fi
25324      \fi}
25325      \renewcommand*{\tocstyle@numberline}[1]{%
25326      \begingroup
25327      \ifx\tocstyle@feature@spaceafternumber\relax
25328      \settowidth\@tempdima{\tocstyle@numberline{#1}\enskip}%
25329      \else
25330      \settowidth\@tempdima{\tocstyle@numberline{#1}}%
25331      \advance \@tempdima \tocstyle@feature@spaceafternumber\relax
25332      \fi
25333      \ifcsname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname
25334      \ifdim \@tempdima >
25335      \csname tocstyle@numwidth@\tocstyleTOC @\tocstyledepth\endcsname\relax
25336      \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
25337      @\tocstyledepth\endcsname{\the\@tempdima}%
25338      \fi
25339      \else
25340      \expandafter\xdef\csname tocstyle@numwidth@\tocstyleTOC
25341      @\tocstyledepth\endcsname{\the\@tempdima}%
25342      \fi
25343      \endgroup
25344      \iftocstyle@indentnotnumbered

```



```

25345 \hskip -\if@RTL\rightskip\else\leftskip\fi
25346 \fi
25347 \ifcase \tocstyle@indentstyle
25348 \hb@xt@{\tempdima{\tocstyle@@numberline{#1}\hfil}%
25349 \or
25350 \hb@xt@{\tempdima{\tocstyle@@numberline{#1}\hfil}%
25351 \else
25352 \ifx\tocstyle@feature@spaceafternumber\relax
25353 \hbox{\tocstyle@@numberline{#1}\enskip}%
25354 \else
25355 \hbox{\tocstyle@@numberline{#1}\hskip
25356 \tocstyle@feature@spaceafternumber\relax}%
25357 \fi
25358 \fi
25359 }
25360 \AtBeginDocument{%
25361 \ifcsname l@part\endcsname
25362 \ifcsname l@chapter\endcsname
25363 \setbox\@tempboxa\vbox{\hsize\maxdimen
25364 \l@part{\tocstyle@l@define{part}{-1}}{}}%
25365 \else
25366 \setbox\@tempboxa\vbox{\hsize\maxdimen
25367 \l@part{\tocstyle@l@define{part}{0}}{}}%
25368 \fi
25369 \fi
25370 \ifcsname l@chapter\endcsname
25371 \setbox\@tempboxa\vbox{\hsize\maxdimen
25372 \l@chapter{\tocstyle@l@define{chapter}{0}}{}}%
25373 \fi
25374 \ifcsname l@section\endcsname
25375 \setbox\@tempboxa\vbox{\hsize\maxdimen
25376 \l@section{\tocstyle@l@define{section}{1}}{}}%
25377 \fi
25378 \ifcsname l@subsection\endcsname
25379 \setbox\@tempboxa\vbox{\hsize\maxdimen
25380 \l@subsection{\tocstyle@l@define{subsection}{2}}{}}%
25381 \fi
25382 \ifcsname l@subsubsection\endcsname
25383 \setbox\@tempboxa\vbox{\hsize\maxdimen
25384 \l@subsubsection{\tocstyle@l@define{subsubsection}{3}}{}}%
25385 \fi
25386 \ifcsname l@paragraph\endcsname
25387 \setbox\@tempboxa\vbox{\hsize\maxdimen
25388 \l@paragraph{\tocstyle@l@define{paragraph}{4}}{}}%
25389 \fi
25390 \ifcsname l@subparagraph\endcsname
25391 \setbox\@tempboxa\vbox{\hsize\maxdimen
25392 \l@subparagraph{\tocstyle@l@define{subparagraph}{5}}{}}%
25393 \fi
25394 \ifcsname l@table\endcsname
25395 \setbox\@tempboxa\vbox{\hsize\maxdimen
25396 \l@table{\tocstyle@l@define{table}{1}}{}}%
25397 \fi
25398 \ifcsname l@figure\endcsname

```



```

25399 \setbox\@tempboxa\vbox{\hsize\maxdimen
25400 \l@figure{\tocstyle\l@define{figure}{1}}{}}%
25401 \fi
25402 \def\@tempa#1#2#3#4#5{%
25403 \ifnum #1>\c@tocdepth \else
25404 \vskip \z@ \@plus.2\p@
25405 {\if@RTL\righskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\righskip\fi \@toc
25406 \parindent #2\relax\@afterindenttrue
25407 \interlinepenalty\@M
25408 \leavevmode
25409 \@tempdima #3\relax
25410 \advance\if@RTL\righskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\ri
25411 {#4}\nobreak
25412 \leaders\hbox{$\m@th
25413 \mkern \dotsep mu\hbox{.}\mkern \dotsep
25414 mu$}\hfill
25415 \nobreak
25416 \hb@xt@\@pnumwidth{\hfil \normalfont \normalcolor #5}}%
25417 \par}%
25418 \fi}%
25419 \ifx\@dottedtocline\@tempa\else
25420 \tocstyle\macrochangewarning\@dottedtocline
25421 \fi
25422 \let\tocstyle\@saved@dottedtocline\@dottedtocline
25423 \def\@tempa#1{\hb@xt@\@tempdima{#1\autodot\hfil}}%
25424 \ifx\numberline\@tempa\else
25425 \def\@tempa#1{\hb@xt@\@tempdima{#1\hfil}}%
25426 \ifx\numberline\@tempa\else
25427 \tocstyle\macrochangewarning\numberline
25428 \fi
25429 \fi
25430 \let\tocstyle\@saved\@numberline\@numberline
25431 }
25432 \renewcommand*\@tocstyle\l@define}[2]{%
25433 \advance\if@RTL\righskip\else\leftskip\fi-\@tempdima
25434 \edef\@tempa{%
25435 \noexpand\global\noexpand\let
25436 \expandafter\noexpand\csname tocstyle\@saved\l@#1\endcsname
25437 \expandafter\noexpand\csname l@#1\endcsname
25438 \noexpand\gdef
25439 \expandafter\noexpand\csname tocstyle\l@#1\endcsname{%
25440 \noexpand\@dottedtocline{#2}{\the\if@RTL\righskip\else\leftskip\fi}{\the\@tempdima}}%
25441 \noexpand\g@addto@macro\noexpand\tocstyle\activate@all\l{%
25442 \noexpand\let\expandafter\noexpand\csname l@#1\endcsname
25443 \expandafter\noexpand\csname tocstyle\l@#1\endcsname
25444 }%
25445 }%
25446 \PackageInfo{tocstyle}{prepare \expandafter\string
25447 \csname l@#1\endcsname\space for redefinition}%
25448 \@tempa
25449 }

```

## 158 File todonotes-xetex-bidi.def



```

25450 \ProvidesFile{todonotes-xetex-bidi.def}[2016/11/08 v0.4 bidi adaptations for todonotes packa
25451 \newif\if@bidi@todonotes@textdirection@RTL
25452 \newif\if@bidi@todonotes@figposition@right
25453 \newcommand{\@bidi@todonotes@align}{}%
25454 \define@key{todonotes}{align}{\renewcommand{\@bidi@todonotes@align}{#1}}%
25455 \newcommand{\@bidi@todonotes@textdirection}{}%
25456 \define@choicekey{todonotes}{textdirection}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right,
25457 \ifcase\@bidi@todonotes@tempb\relax
25458 \@bidi@todonotes@textdirection@RTLtrue
25459 \let\@bidi@todonotes@textdirection\RL
25460 \or
25461 \@bidi@todonotes@textdirection@RTLfalse
25462 \let\@bidi@todonotes@textdirection\LR
25463 \fi}
25464 \define@choicekey{todonotes}{figposition}[\@bidi@todonotes@tempa\@bidi@todonotes@tempb]{right,
25465 \ifcase\@bidi@todonotes@tempb\relax
25466 \@bidi@todonotes@figposition@righttrue
25467 \or
25468 \@bidi@todonotes@figposition@rightfalse
25469 \fi}
25470 \if@todonotes@disabled%
25471 \else % \if@todonotes@disabled
25472 \renewcommand{\@todonotes@drawInlineNote}{%
25473 \if@todonotes@dviStyle%
25474 {\par\noindent\begin{tikzpicture}[remember picture]%
25475 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
25476 \if@todonotes@authorgiven%
25477 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text}%
25478 \else%
25479 {\noindent \@todonotes@sizecommand \@todonotes@text}%
25480 \fi
25481 {\par\noindent\begin{tikzpicture}[remember picture]%
25482 \draw node[inlinenotestyle] {};\end{tikzpicture}\par}%
25483 \else%
25484 {\par\noindent\begin{tikzpicture}[remember picture]%
25485 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25486 \draw node[inlinenotestyle,font=\@todonotes@sizecommand,align=\@bidi@todonotes@a
25487 \if@todonotes@authorgiven%
25488 {\noindent \@todonotes@sizecommand \@todonotes@author:\,\@todonotes@text
25489 \else%
25490 {\noindent \@todonotes@sizecommand \@todonotes@text}%
25491 \fi};%
25492 \end{tikzpicture}\par}%
25493 \fi}%
25494 \renewcommand{\@todonotes@drawMarginNoteWithLine}{%
25495 \begin{tikzpicture}[remember picture, overlay, baseline=-0.75ex]%
25496 \node [coordinate] (inText) {};%
25497 \end{tikzpicture}%
25498 \marginpar[{}]{% Draw note in left margin
25499 \@todonotes@drawMarginNote%
25500 \if@RTL\@todonotes@drawLineToRightMargin\else\@todonotes@drawLineToLeftMargin\fi%
25501 }]{% Draw note in right margin
25502 \@todonotes@drawMarginNote%
25503 \if@RTL\@todonotes@drawLineToLeftMargin\else\@todonotes@drawLineToRightMargin\fi%

```



```

25504 }%
25505 }%
25506 \renewcommand{\@todonotes@drawMarginNote}{%
25507 \if@todonotes@dviStyle%
25508     \begin{tikzpicture}[remember picture]%
25509         \draw node[notestyle] {};%
25510     \end{tikzpicture}\\%
25511     \begin{minipage}{\@todonotes@textwidth}%
25512     \if@todonotes@authorgiven%
25513         \@todonotes@sizecommand \@todonotes@author \@todonotes@text%
25514     \else%
25515         \@todonotes@sizecommand \@todonotes@text%
25516     \fi%
25517     \end{minipage}\\%
25518     \begin{tikzpicture}[remember picture]%
25519         \draw node[notestyle] (inNote) {};%
25520     \end{tikzpicture}%
25521 \else%
25522     \let\originalHbadness\hbadness%
25523     \hbadness 10000%
25524     \begin{tikzpicture}[remember picture,baseline=(X.base)]%
25525         \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25526         \node(X){\vphantom{X}};%
25527         \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
25528         \if@todonotes@authorgiven%
25529             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@sizecommand \@todonotes@author};%
25530             \node(Y)[below=of X]{};%
25531             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
25532         \else%
25533             \draw node[notestyle,font=\@todonotes@sizecommand,anchor=north,align=\@bidi@todonotes@textdirection]{\@todonotes@text};%
25534         \fi%
25535     \end{tikzpicture}%
25536     \hbadness \originalHbadness%
25537 \fi}%
25538 \renewcommand{\missingfigure}[2]{}%
25539 \setkeys{todonotes}{#1}%
25540 \addcontentsline{tdo}{todo}{\@todonotes@MissingFigureText: #2}%
25541 \par
25542 \noindent
25543 \begin{tikzpicture}
25544 \draw[fill=\@todonotes@currentfigcolor, draw = black!40, line width=2pt]
25545     (-2, -2.5) rectangle +(\@todonotes@currentfigwidth, \@todonotes@currentfigheight);
25546 \if@bidi@todonotes@figposition@right%
25547 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
25548 \draw[red, fill=white, rounded corners = 5pt, line width=10pt]
25549     (30:2cm) -- (150:2cm) -- (270:2cm) -- cycle;
25550 \if@bidi@todonotes@figposition@right%
25551 \end{scope}
25552 \begin{scope}[xshift=-3.8cm]

```



```

25558 \fi%
25559 \if@bidi@todonotes@textdirection@RTL\setRTL\fi%
25560 \draw (2, -0.3) node[right, text
25561     width=\@todonotes@currentfigwidth-4.5cm,align=\@bidi@todonotes@align] {#2};
25562 \if@bidi@todonotes@figposition@right%
25563 \end{scope}
25564 \begin{scope}[xshift=\@todonotes@currentfigwidth-4cm]
25565 \fi%
25566 \draw (0, 0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@text}}
25567 \draw (0, -0.3) node[align=\@bidi@todonotes@align] {\@bidi@todonotes@textdirection{\@todonotes@text}}
25568 \if@bidi@todonotes@figposition@right%
25569 \end{scope}
25570 \fi%
25571 \end{tikzpicture}\hfill
25572 }% Ending \missingfigure command
25573 \fi % Ending \@todonotes@ifdisabled
25574 \presetkeys%
25575     {todonotes}%
25576     {align=left,%
25577     textdirection=lefttoright,%
25578     figposition=left}{}%

```

## 159 File wrapfig-xetex-bidi.def

```

25579 \ProvidesFile{wrapfig-xetex-bidi.def}[2014/04/23 v0.3 bidi adaptations for wrapfig package]
25580 \let\WF@everypar\bidion@everypar
25581 \def\WF@putfigmaybe{%
25582 \ifinner
25583   \vskip-\parskip \global\WF@floatfalse
25584   \let\pagetotal\maxdimen % kludge flag for "not top of page"
25585 \else % outer page
25586   \@tempdima\pagedepth % save page depth
25587   {\advance\parskip\@tempdima\if@RTL\advance\parskip\baselineskip\fi\vskip-\parskip}% back
25588   \penalty\interlinepenalty % update pg. parameters
25589   \@tempdimb\pagegoal \advance\@tempdimb-\pagetotal % room left on page
25590   \ifdim\@tempdimb<\z@ % \WF@info{Page overfull already;}%
25591     \global\WF@floatfalse
25592     \ifdim-\@tempdimb>\pageshrink \else \pagebreak \fi
25593   \else
25594     \ifdim\WF@size>\@tempdimb
25595       \ifWF@float \dimen@.5\baselineskip \else \dimen@ 2\baselineskip\fi
25596       \ifdim\pagestretch>\dimen@ \dimen@\pagestretch \fi
25597       \ifdim\pagefilstretch>\z@ \dimen@\@tempdimb \fi
25598       \ifdim\pagefillstretch>\z@ \dimen@\@tempdimb \fi
25599       \advance\dimen@.5\baselineskip
25600       \ifdim\dimen@>\@tempdimb % \WF@info{Page nearly full; can stretch}%
25601         \global\WF@floatfalse \pagebreak
25602       \fi
25603     \else % \WF@info{Fits in \the\@tempdimb;}%
25604       \global\WF@floatfalse
25605     \fi\fi
25606     \vskip\@tempdima\relax % (return erased page depth)
25607 \fi
25608 \noindent

```





```

25609 \ifWF@float
25610   \WF@fltmes
25611 \else % putting here;
25612   \WF@info{Put \WF@wfname here:}%
25613   {\ifodd\if@twoside\c@page\else\@ne\fi % assign l/r to i/o placement
25614     \lccode`i`l\lccode`o`r\else \lccode`i`r\lccode`o`l\fi
25615     \xdef\WF@place{\the\lccode\lccode\WF@place}}% twice to get only l or r
25616   \hbox to\z@{\llap or rlap depending on {l} or {r}; calc effective width
25617     \@tempdima\wd\WF@box \@tempdimb\WF@ovh
25618     \advance\@tempdima-\@tempdimb \advance\@tempdima\columnsep
25619     \@tempdimb\hsize \advance\@tempdimb-\@tempdima
25620     \xdef\WF@adjlw{\the\@tempdima}%
25621     \ifnum `l=\WF@place % fig on left
25622       \if@RTL%
25623         \kern\@tempdimb \kern\columnsep
25624         \def\@tempa{\hss}% position to left of the gap
25625         \else%
25626         \hss % figure overlaps space to the left
25627         \def\@tempa{\kern\columnsep}% position to left of the gap
25628         \fi%
25629     \else % fig on right
25630       \if@RTL%
25631         \hss
25632         \@tempdima\z@
25633         \def\@tempa{\kern\columnsep}
25634         \else%
25635         \@tempdima\z@ % no left indentation
25636         \kern\@tempdimb \kern\columnsep
25637         \def\@tempa{\hss}% figure overlaps space to the right
25638         \fi%
25639     \fi
25640     \ifdim\@tempdimb<\hsize
25641       \xdef\WF@wrapil{\the\@tempdima \the\@tempdimb}% indentation and length
25642       \xdef\WF@adjtlm{\the\@tempdima}%
25643     \else
25644       \xdef\WF@wrapil{\z@ \the\hsize}%
25645       \xdef\WF@adjlw{\z@}\xdef\WF@adjtlm{\z@}%
25646     \fi
25647     \ifdim\pagetotal=\z@ % \WF@info{Put \WF@wfname at top of p.\thepage}%
25648       \global\advance\WF@size-\intextsep
25649     \else % \WF@info{Putting \WF@wfname in middle of page}%
25650       \setbox\WF@box\hbox{\lower\intextsep\box\WF@box}%
25651       \fi \dp\WF@box\z@ \box\WF@box \@tempa
25652   }% end \hbox to Opt
25653   \aftergroup\WF@startwrapping % after the \endgroup which immediately follows
25654 \fi}

```

## 160 File xcolor-xetex-bidi.def

```

25655 \ProvidesFile{xcolor-xetex-bidi.def}[2022/06/13 v0.3 bidi adaptations for xcolor package for
25656 \long\def\color@b@x#1#2#3%
25657 {\leavevmode\ifmmode\else\if@RTL\beginL\fi\fi
25658   \setbox\z@\hbox{\kern\fbboxsep{\set@color\if@RTL\beginR\fi#3\if@RTL\endR\fi}\kern\fbboxsep}%
25659   \dimen@ \ht\z@\advance\dimen@\fbboxsep\ht\z@\dimen@

```



```

25660 \dimen@dp\z@advance\dimen@fboxsep\dp\z@dimen@
25661 {#1{#2\color@block{\wd\z@}{\ht\z@}{\dp\z@}\box\z@}}\ifmmode\else\if@RTL\endL\fi\fi}
25662 \protected\def\normalcolor{\let\current@color\default@color\ifhmode\if@RTL\beginL\aftergroup
25663 \DeclareRobustCommand\color
25664 {\ifhmode\if@RTL\beginL\aftergroup\endR\fi\fi@ifnextchar[\@undeclaredcolor\@declaredcolor]}
25665 \def\@undeclaredcolor[#1]#2%
25666 {\begingroup
25667 \let\@ccls\@empty
25668 \XC@getmodclr12{#1}{#2}{}}%
25669 {\ifblendcolors
25670 \ifx\colorblend\@empty\else
25671 \edef\@mix{\expandafter\@gobble\colorblend}\@tempwafalse
25672 \XC@coremodel\@mod\@clr\xcolor@{}}\@mod\@clr
25673 \fi
25674 \fi
25675 \ifconvertcolorsU
25676 \edef\@tmp{\XC@tgt@mod{\@mod}}%
25677 \convertcolorspec\@mod\@clr\@tmp\@clr \let\@mod\@tmp
25678 \fi
25679 \ifmaskcolors
25680 \convertcolorspec\@mod\@clr\XC@mmod\@clr
25681 \let\@mod\XC@mmod
25682 \XC@inflate\@mod\XC@mclr\@clr\@tmp
25683 \expandafter\XC@mul\@tmp,\@clr
25684 \fi
25685 \edef\@tmp{\noexpand\XC@undeclaredcolor{\@mod}{\@clr}}%
25686 \expandafter\endgroup\@tmp}}
25687 \def\@declaredcolor#1%
25688 {\XC@edef\XC@tmp{#1}\XC@tstfalse
25689 \ifcase\XC@type\XC@tmp\relax \XC@tsttrue\or \relax\else
25690 \ifblendcolors\XC@tsttrue\fi \ifmaskcolors\XC@tsttrue\fi
25691 \ifconvertcolorsU\XC@tsttrue\fi
25692 \fi
25693 \ifXC@tst
25694 \expandafter\XC@declaredcolor\else
25695 \expandafter\XC@declaredcolor\fi}
25696 \def\XC@undeclaredcolor#1#2%
25697 {\@ifundefinedmodel{#1}%
25698 {\c@lor@error{model `#1'}}%
25699 {\@nameuse{color@#1}\current@color{#2}}%
25700 \edef\XC@current@color{\noexpand\xcolor@{}}{\current@color}{#1}{#2}}%
25701 \XC@display}\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
25702 \def\XC@declaredcolor
25703 {\XC@let\Nc\XC@current@color{\string\color@\XC@tmp}%
25704 \edef\current@color{\XC@current@color}%
25705 \XC@display\ifhmode\if@RTL\beginR\aftergroup\endL\fi\fi\ignorespaces}
25706 \DeclareRobustCommand\bidicolor
25707 {\@ifnextchar[\@bidiundeclaredcolor\@bidideclaredcolor]}
25708 \def\@bidiundeclaredcolor[#1]#2%
25709 {\begingroup
25710 \let\@ccls\@empty
25711 \XC@getmodclr12{#1}{#2}{}}%
25712 {\ifblendcolors
25713 \ifx\colorblend\@empty\else

```



```

25714         \edef\@@mix{\expandafter\@gobble\colorblend}\@tempwafalse
25715         \XC@coremodel\@@mod\@@clr\@xcolor@{\}\@@mod\@@clr
25716     \fi
25717 \fi
25718 \ifconvertcolorsU
25719     \edef\@@tmp{\XC@tgt@mod{\@@mod}}%
25720     \convertcolorspec\@@mod\@@clr\@@tmp\@@clr \let\@@mod\@@tmp
25721 \fi
25722 \ifmaskcolors
25723     \convertcolorspec\@@mod\@@clr\XC@mmod\@@clr
25724     \let\@@mod\XC@mmod
25725     \XC@inflate\@@mod\XC@mclr\@@clr\@@tmp
25726     \expandafter\XC@mul\@@tmp,\@clr
25727 \fi
25728 \edef\@@tmp{\noexpand\XC@bidiundeclaredcolor{\@@mod}{\@@clr}}%
25729 \expandafter\endgroup\@@tmp}}
25730 \def\XC@bidiundeclaredcolor#1#2%
25731 {\@ifundefinedmodel{#1}%
25732  {\c@lor@error{model `#1'}%
25733  {\@nameuse{color@#1}\current@color{#2}}%
25734  \edef\XC@current@color{\noexpand\xcolor@{\}\current@color}{#1}{#2}}%
25735  \XC@display}}
25736 \def\@bidideclaredcolor#1%
25737 {\XC@edef\XC@@tmp{#1}\XC@@tstfalse
25738  \ifcase\XC@type\XC@@tmp\relax \XC@@tsttrue\or \relax\else
25739    \ifblendcolors\XC@@tsttrue\fi \ifmaskcolors\XC@@tsttrue\fi
25740    \ifconvertcolorsU\XC@@tsttrue\fi
25741  \fi
25742  \ifXC@@tst
25743    \expandafter\XC@bidideclaredcolor\else
25744    \expandafter\XC@bidideclaredc@lor\fi}
25745 \def\XC@bidideclaredcolor
25746 {\XC@split\XC@@tmp
25747  \edef\@@tmp{\noexpand\@bidiundeclaredcolor[\@@mod]{\@@clr}}%
25748  \expandafter\endgroup\@@tmp}
25749 \def\XC@bidideclaredc@lor
25750 {\XC@let\Nc\XC@current@color{\string\color@\XC@@tmp}%
25751  \edef\current@color{\XC@current@color}%
25752  \XC@display}
25753 \def\color@box#1#2{\color@b@x\relax{\bidicolor#1{#2}}}
25754 \def\color@fbox#1#2#3{\protect\color@fb@x{#1}{#2}{#3}}
25755 \def\color@fb@x#1#2#3#4%
25756 {\color@b@x{\fboxsep\z@\bidicolor#1{#2}\XC@fbox}%
25757  {\@ifxempty{#3}{\bidicolor#1}{\bidicolor#3}{#4}}}
25758 \def\color@setgroup{\begingroup\ifhmode\if@RTL\beginR\aftergroup\endR\fi\fi\set@color\ifhmode

```

## 161 File latex-xetex-bidi.def

```

25759 \ProvidesFile{latex-xetex-bidi.def}[2025/01/03 v1.5.2 bidi adaptations for `latex.ltx' for
25760 \newcommand{\TeXXeTOn}{\TeXXeTstate\@ne}
25761 \newcommand{\TeXXeTOff}{\TeXXeTstate\z@}
25762 \TeXXeTOn
25763 \def\bidi@RTL@everypar{\setbox\z@\lastbox\if@RTL\beginR\else\beginL\fi\ifvoid\z@\else\usebox\z@}
25764 \let\bidi@o@everypar=\everypar

```



```

25765 \newtoks\bidin@everypar
25766 \bidin@everypar\expandafter{\the\bidio@everypar}
25767 \bidio@everypar{\bid RTL@everypar\the\bidin@everypar}
25768 \let\everypar=\bidin@everypar
25769 \def\moreLRE{\bracetext \aftergroup\endL \beginL\@RTLfalse}
25770 \def\moreRLE{\bracetext \aftergroup\endR \beginR\@RTLtrue}
25771 \protected\def\hboxR{\hbox\bgroup
25772 \everyhbox{%
25773 \aftergroup\egroup
25774 \everyhbox{}}%
25775 \beginR
25776 \@hboxRconstructtrue
25777 \bgroup
25778 \aftergroup\endR
25779 \aftergroup\egroup
25780 }\hbox}
25781 \protected\def\hboxL{\hbox\bgroup
25782 \everyhbox{%
25783 \aftergroup\egroup
25784 \everyhbox{}}%
25785 \beginL
25786 \@hboxRconstructfalse
25787 \bgroup
25788 \aftergroup\endL
25789 \aftergroup\egroup
25790 }\hbox}
25791 \protected\def\vboxR{\vbox\bgroup
25792 \everyvbox{%
25793 \aftergroup\egroup
25794 \everyvbox{}}%
25795 \@RTLtrue
25796 \@RTLtabtrue
25797 \bgroup
25798 \aftergroup\egroup
25799 }\vbox}
25800 \protected\def\vboxL{\vbox\bgroup
25801 \everyvbox{%
25802 \aftergroup\egroup
25803 \everyvbox{}}%
25804 \@RTLfalse
25805 \@RTLtabfalse
25806 \bgroup
25807 \aftergroup\egroup
25808 }\vbox}
25809 \newcommand*{\bidil@leftskip}{\if@RTL\rightskip\else\leftskip\fi}
25810 \newcommand*{\bidir@rightskip}{\if@RTL\leftskip\else\rightskip\fi}
25811 \def\LTR{\par\@RTLfalse\@RTL@footnotefalse\@RTLtabfalse\hsize\linewidth\parshape\z@\bidibeat}
25812 \def\endLTR{\par}
25813 \newenvironment{LTR*}{\LTR
25814 \everypar{%
25815 {\setbox\z@\lastbox
25816 \ifvoid\z@
25817 \kern-\parindent
25818 \fi}%

```



```

25819 }%
25820 }\endLTR\@endpetrue}
25821 \def\RTL{\par\@RTLtrue\@RTLfootnotetrue\@RTLtabtrue\hsize\linewidth\parshape\z@\bidi@beamer}
25822 \def\endRTL{\par}
25823 \newenvironment{RTL*}{\RTL
25824 \everypar{%
25825     {\setbox\z@\lastbox
25826     \ifvoid\z@
25827     \kern-\parindent
25828     \fi}%
25829 }%
25830 }\endRTL\@endpetrue}
25831 \def\setRTL{\@RTLtrue\@RTLfootnotetrue\@RTLtabtrue\bidi@beamer@ragged}
25832 \def\setLTR{\@RTLfalse\@RTLfootnotefalse\@RTLtabfalse\bidi@beamer@ragged}
25833 \let\unsetRTL=\setLTR
25834 \let\unsetLTR=\setRTL
25835 \let\LR=\LRE
25836 \let\RL=\RLE
25837 \def\@ensure@RTL#1{\if@RTL#1\else\RLE{#1}\fi}
25838 \def\@ensure@LTR#1{\if@RTL\LRE{#1}\else#1\fi}
25839 \let\@ensure@RL=\@ensure@RTL
25840 \let\@ensure@LR=\@ensure@LTR
25841 \def\@ensure@dir#1{\if@RTL\RLE{#1}\else{#1}\fi}
25842 \let\@ensure@maindir=\@ensure@dir
25843 \def\@RTL{RTL}
25844 \def\@LTR{LTR}
25845 \def\save@dir{\if@RTL\gdef\saved@dir{RTL}\else\gdef\saved@dir{LTR}\fi}
25846 \def\reset@dir{\ifx\saved@dir\@RTL\setRTL\else\ifx\saved@dir\@LTR\setLTR\else\relax\fi}
25847 \let\@TeX\TeX
25848 \def\TeX{\@ensure@LTR{\@TeX}}
25849 \let\@LaTeX\LaTeX
25850 \def\LaTeX{\@ensure@LTR{\@LaTeX}}
25851 \let\@LaTeXe\LaTeXe
25852 \def\LaTeXe{\@ensure@LTR{\@LaTeXe}}
25853 \long\def\bidi@reflect@box#1{%
25854     \leavevmode
25855     \setbox\z@\hbox{#1}%
25856     \setbox\tw@\hbox{\special{x:gsave}\special{x:scale -1 1}\rlap{\copy\z@}\special{x:grestore}}
25857     \hb@xt@\wd\z@{\kern\wd\z@\box\tw@\hss}%
25858 }
25859 \if@bidi@csundef{XeTeX}{%
25860 \bidi@newrobustcmd*{\XeTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
25861     \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \TeX}}$}%
25862 }%
25863 \let\@bidi@orig@XeTeX\XeTeX
25864 \bidi@renewrobustcmd*{\XeTeX}{\LR{\@bidi@orig@XeTeX}}%
25865 }
25866 \if@bidi@csundef{XeLaTeX}{%
25867 \bidi@newrobustcmd*{\XeLaTeX}{\LR{\leavevmode$\smash{\hbox{X}\lower.5ex
25868     \hbox{\kern-.125em\bidi@reflect@box{E}}\kern-.1667em \LaTeX}}$}%
25869 }%
25870 \let\@bidi@orig@XeLaTeX\XeLaTeX
25871 \bidi@renewrobustcmd*{\XeLaTeX}{\LR{\@bidi@orig@XeLaTeX}}%
25872 }

```



```

25873 \let\setRL=\setRTL
25874 \let\setLR=\setLTR
25875 \let\unsetRL=\setLTR
25876 \def\biditabular@RTLcases{\let\@halignto\@empty\@biditabular@RTLcases}
25877 \ApplyPatchIfPackageLoaded{array}{%
25878 \def\@biditabular@RTLcases{\@RTLtabtrue%
25879 \leavevmode
25880 \hbox \bgroup $\left.\col@sep\tabcolsep \let\dollarbegin\begin\group
25881 \let\dollarend\endgroup
25882 \@tabarray}
25883 \def\endbiditabular@RTLcases{\endarray \right\rbrace$\egroup}
25884 }{%
25885 \def\@biditabular@RTLcases{\@RTLtabtrue%
25886 \leavevmode \hbox \bgroup
25887 $\left.\let\@acol\@tabacol
25888 \let\@classz\@tabclassz
25889 \let\@classiv\@tabclassiv \let\\\@tabularcr\@tabarray}
25890
25891 \def\endbiditabular@RTLcases{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
25892 \egroup\right\rbrace $\egroup}}
25893 \def\RTLcases#1{\left.\vcenter{\normalbaselines\m@th
25894 \ialign{##\hfil$\&\quad{##}\hfil\crrc#1\crrc}}\,\right\}}
25895 \renewenvironment{RTLcases}{%
25896 \bidimatrix@check\RTLcases\env@RTLcases
25897 }{%
25898 \endbiditabular@RTLcases%
25899 }
25900 \def\env@RTLcases{%
25901 \let\@ifnextchar\bidinew@ifnextchar
25902 \def\arraystretch{1.2}%
25903 \biditabular@RTLcases{\@{}r{\quad}r{\{}}}%
25904 }
25905 \def\SepMark#1{\gdef\@SepMark{#1}}
25906 \SepMark{.}
25907 \def\@thmcountersep{\@SepMark}
25908 \def\setRTLbibitems{\@RTLbibitemstrue\@LTRbibitemsfalse}
25909 \def\setLTRbibitems{\@LTRbibitemstrue\@RTLbibitemsfalse}
25910 \def\setdefaultbibitems{\@RTLbibitemsfalse\@LTRbibitemsfalse}
25911 \newcommand*{\@bidiathebibliography@font@hook}{}
25912 \def\list#1#2{%
25913 \ifnum \@listdepth >5\relax
25914 \@toodeep
25915 \else
25916 \global\advance\@listdepth\@ne
25917 \fi
25918 \rightmargin\z@
25919 \listparindent\z@
25920 \itemindent\z@
25921 \csname @list\romannumeral\the\@listdepth\endcsname
25922 \def\@itemlabel{#1}%
25923 \let\makelabel\@mklab
25924 \@nbrlistfalse
25925 #2\relax
25926 \@trivlist

```



```

25927 \parskip\parsep
25928 \parindent\listparindent
25929 \advance\linewidth -\rightmargin
25930 \advance\linewidth -\leftmargin
25931 \if@bidi@list@minipage@parbox
25932 \if@RTL
25933 \advance\@totalleftmargin \leftmargin
25934 \else
25935 \advance\@totalleftmargin \rightmargin
25936 \fi
25937 \else
25938 \if@hboxRconstruct
25939 \if@bidi@list@minipage@parbox@not@nob
25940 \if@RTL
25941 \advance\@totalleftmargin \rightmargin
25942 \else
25943 \advance\@totalleftmargin \leftmargin
25944 \fi
25945 \else
25946 \if@RTL
25947 \advance\@totalleftmargin \leftmargin
25948 \else
25949 \advance\@totalleftmargin \rightmargin
25950 \fi\fi
25951 \else
25952 \if@RTL
25953 \advance\@totalleftmargin \rightmargin
25954 \else
25955 \advance\@totalleftmargin \leftmargin
25956 \fi\fi\fi
25957 \parshape \@ne \@totalleftmargin \linewidth
25958 \ignorespaces}
25959 \long\def\@iiiiparbox#1#2[#3]#4#5{%
25960 \leavevmode
25961 \@pboxswfalse
25962 \if@hboxRconstruct
25963 \@bidi@list@minipage@parbox@not@nobtrue
25964 \fi
25965 \if@RTL
25966 \ifx#1t%
25967 \@bidi@list@minipage@parboxtrue
25968 \else
25969 \ifx#1b%
25970 \@bidi@list@minipage@parboxtrue
25971 \fi
25972 \fi
25973 \fi
25974 \setlength\@tempdima{#4}%
25975 \@begin@tempboxa\vbox{\hsize\@tempdima\@parboxrestore#5\@par}%
25976 \ifx\relax#2\else
25977 \setlength\@tempdimb{#2}%
25978 \edef\@parboxto{to\the\@tempdimb}%
25979 \fi
25980 \if#1b\vbox

```



```

25981 \else\if #1t\top
25982 \else\ifmode\vcenter
25983 \else\@pboxswtrue $\vcenter
25984 \fi\fi\fi
25985 \@parboxto{\let\hss\vss\let\unhbox\unvbox
25986 \csname bm@#3\endcsname}%
25987 \if@pboxsw \m@th$\fi
25988 \@end@tempboxa}
25989 \newenvironment{LTRitems}
25990 {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
25991 \if@bidi@list@minipage@parbox
25992 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
25993 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
25994 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
25995 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
25996 \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
25997 \ignorespaces}{\vskip\z@}
25998 \newenvironment{RTLitems}
25999 {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
26000 \if@bidi@list@minipage@parbox
26001 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
26002 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26003 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
26004 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26005 \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26006 \ignorespaces}{\vskip\z@}
26007 \newenvironment{LTRbibitems}
26008 {\par\@RTLfalse\@RTLtabfalse\@bidi@beamer@ragged
26009 \if@bidi@list@minipage@parbox
26010 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth
26011 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26012 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\else
26013 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26014 \else \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26015 \ignorespaces}{\vskip\z@}
26016 \newenvironment{RTLbibitems}
26017 {\par\@RTLtrue\@RTLtabtrue\@bidi@beamer@ragged
26018 \if@bidi@list@minipage@parbox
26019 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth
26020 \else \if@hboxRconstruct\if@bidi@list@minipage@parbox@not@nob
26021 \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\else
26022 \parshape \@ne \dimexpr(\@totalleftmargin+\leftmargin) \linewidth\fi
26023 \else \parshape \@ne \dimexpr(\@totalleftmargin-\leftmargin) \linewidth\fi
26024 \ignorespaces}{\vskip\z@}
26025 \def\raggedright{%
26026 \let\\\@centercr\@rightskip\@flushglue \rightskip\@rightskip
26027 \leftskip\z@skip
26028 \parindent\z@\parfillskip\z@skip}
26029 \let\@bidi@orig@raggedleft\raggedleft
26030 \let\@bidi@orig@raggedright\raggedright
26031 \renewcommand\raggedleft{\if@bidi@list@minipage@parbox\@bidi@orig@raggedright\else\if@hboxRconstruct\@bidi@orig@raggedleft\else\raggedleft\fi}
26032 \renewcommand\raggedright{\if@bidi@list@minipage@parbox\@bidi@orig@raggedleft\else\if@hboxRconstruct\@bidi@orig@raggedright\else\raggedright\fi}
26033 \newcommand{\@bidi@raggedright}{\if@RTL\raggedleft\else\raggedright\fi}
26034 \newcommand{\@bidi@raggedleft}{\if@RTL\raggedright\else\raggedleft\fi}

```





```

26035 \DeclareRobustCommand\centerline[1]{%
26036 \if@RTL\@@line{\hss\beginR#1\endR\hss}
26037 \else\@@line{\hss#1\hss}\fi}
26038 \def\bidiorig@leftline#1{%
26039 \if@RTL\@@line{\beginR#1\endR\hss}
26040 \else\@@line{#1\hss}\fi}
26041 \def\bidiorig@rightline#1{%
26042 \if@RTL\@@line{\hss\beginR#1\endR}
26043 \else\@@line{\hss#1}\fi}
26044 \DeclareRobustCommand\leftline[1]{\ifhmode\if@RTL\bidiorig@rightline{#1}\else\bidiorig@lef
26045 \DeclareRobustCommand\rightline[1]{\ifhmode\if@RTL\bidiorig@leftline{#1}\else\bidiorig@rig
26046 \DeclareRobustCommand\bidirlap[1]{\hb@xt@z@{\if@RTL\hss\fi#1\if@RTL\else\hss\fi}}
26047 \DeclareRobustCommand\bidillap[1]{\hb@xt@z@{\if@RTL\else\hss\fi#1\if@RTL\hss\fi}}
26048 \def\@hangfrom#1{\setbox\@tempboxa\hbox{#{#1}}}%
26049 \hangindent \if@RTL-\else\fi\wd\@tempboxa\noindent\box\@tempboxa}
26050 \def\narrower{%
26051 \advance\if@RTL\rightright\else\leftskip\fi\parindent
26052 \advance\if@RTL\leftskip\else\rightright\fi\parindent}
26053 \DeclareRobustCommand\underline[1]{%
26054 \relax
26055 \ifmmode\@@underline{#1}%
26056 \else
26057 \if@RTL $\@@underline{\hbox{\beginR#1\endR}}\m@th$\relax
26058 \else
26059 $\@@underline{\hbox{#1}}\m@th$\relax\fi\fi}
26060 \if@compatibility
26061 \let\underline=\underline
26062 \fi
26063 \def\@tabular{%
26064 \leavevmode \hbox \bgroup \if@RTLtab\beginR \fi
26065 $\let\@acol\@tabacol
26066 \let\@classz\@tabclassz
26067 \let\@classiv\@tabclassiv \let\\\@tabularrcr\@tabarray}
26068 \def\endtabular{\crrc\egroup\if@RTLtab\egroup\endR\egroup\fi
26069 \egroup $\if@RTLtab\endR\fi\egroup}
26070 \expandafter \let \csname endtabular*\endcsname = \endtabular
26071 \def\@array[#1]#2{%
26072 \if #1t\vtop \else \if#1b\vbox \else \vcenter \fi\fi
26073 \bgroup
26074 \setbox\@arstrutbox\hbox{%
26075 \vrule \@height\arraystretch\ht\strutbox
26076 \depth\arraystretch \dp\strutbox
26077 \@widthz@}%
26078 \mkpream{#2}%
26079 \edef\@preamble{%
26080 \ialign \noexpand\@halignto
26081 \bgroup \@arstrut \@preamble \tabskip\z@skip \cr}%
26082 \let\@startpbox\@startpbox \let\@endpbox\@endpbox
26083 \let\@tabularnewline\%
26084 \let\par\empty
26085 \let\@sharp##%
26086 \set@typeset@protect
26087 \lineskip\z@skip\baselineskip\z@skip
26088 \ifhmode \@preamerr\z@ \@@par\fi

```



```

26089 \if@RTLtab\hbox\bgroup\beginR\@hboxRconstructtrue\if #1t\vtop \else \vbox \fi\bgroup\fi
26090 \@preamble}
26091 \def\array{\let\@acol\@arrayacol \let\@classz\@arrayclassz
26092 \let\@classiv\@arrayclassiv
26093 \let\@arraycr\let\@halignto\@empty\@RTLtabfalse\@tabarray}
26094 \def\@testpach#1{\@chclass \ifnum \@lastchclass=\tw@ 4 \else
26095 \ifnum \@lastchclass=3 5 \else
26096 \z@ \if #1c\@chnum \z@ \else
26097 \if \if@RTLtab#1r\else#1l\fi\@chnum \@ne \else
26098 \if \if@RTLtab#1l\else#1r\fi\@chnum \tw@ \else
26099 \@chclass \if #1l\@ne \else
26100 \if #1@tw@ \else
26101 \if #1p3 \else \z@ \@preamerr 0\fi
26102 \fi \fi \fi \fi \fi \fi
26103 \fi}
26104 \def\bm@l{\if@RTL\hss\unhbox\@tempboxa\else\unhbox\@tempboxa\hss\fi}
26105 \def\bm@r{\if@RTL\unhbox\@tempboxa\hss\else\hss\unhbox\@tempboxa\fi}
26106 \def\bm@t{\unhbox\@tempboxa\hss}
26107 \def\bm@b{\hss\unhbox\@tempboxa}
26108 \def\@dottedtocline#1#2#3#4#5{%
26109 \ifnum #1>\c@tocdepth \else
26110 \vskip \z@ \@plus.2\p@
26111 {\if@RTL\rightskip\else\leftskip\fi #2\relax \if@RTL\leftskip\else\rightskip\fi \@tocma
26112 \parindent #2\relax\@afterindenttrue
26113 \interlinepenalty\@M
26114 \leavevmode
26115 \@tempdima #3\relax
26116 \advance\if@RTL\rightskip\else\leftskip\fi \@tempdima \null\nobreak\hskip -\if@RTL\right
26117 {#4}\nobreak
26118 \leaders\hbox{$\m@th
26119 \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
26120 mu$}\hfill
26121 \nobreak
26122 \hb@xt@\@pnumwidth{\hfil\normalfont \normalcolor #5}}%
26123 \par}%
26124 \fi}
26125
26126 \newcount\@bidi@column@check@number
26127
26128 \def\@bidi@column@status#1{\gdef\@bidi@current@column@status{#1}}
26129
26130 \def\@bidi@set@column@status#1#2{%
26131 \global\expandafter\let\csname #1\endcsname\@bidi@current@column@status}
26132
26133 \if@twocolumn
26134 \newcommand\DetectColumn[3][1]{%
26135 \ifx\@bidi@firstcolumn@status@write\relax
26136 \PackageError{bidi}%
26137 {Option 'DetectColumn' not selected}%
26138 {\string\DetectColumn\space
26139 requires the use of the 'DetectColumn'
26140 option on the package}%
26141 \fi
26142 \global\advance\@bidi@column@check@number\@ne

```



```

26143 \edef\ bidi@column@type{\expandafter\ifx
26144         \csname bidi@column-\the\ bidi@column@check@number\endcsname\relax
26145         0\else
26146         \csname bidi@column-\the\ bidi@column@check@number\endcsname
26147         \fi}%
26148 \ifcase \ bidi@column@type\relax
26149     \ifcase #1\or #2\or #3\fi % 0 not known use first column as default
26150 \or
26151     #2% % 1 First column
26152 \or
26153     #3% % 2 Second (Last column)
26154 \else
26155     \ERROR
26156 \fi
26157 \edef\next{\write\@auxout
26158     {\string\ bidi@set@column@status{\ bidi@column-\the\ bidi@column@check@number}%
26159         {\ bidi@column@type}}}%
26160 \next
26161 }
26162
26163 \AtEndDocument{\def\ bidi@set@column@status#1#2{%
26164     \ifnum #2=\ bidi@current@column@status\else
26165     \@tempwattrue
26166     \fi}%
26167 }
26168 \fi
26169
26170 \def\RTL@outputdblcol{%
26171     \if@firstcolumn
26172     \global\@firstcolumnfalse
26173     \global\setbox\@leftcolumn\copy\@outputbox
26174     \splitmaxdepth\maxdimen
26175     \vbadness\maxdimen
26176     \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
26177     \setbox\@outputbox\vsplit\@outputbox to\maxdimen
26178     \toks@\expandafter{\topmark}%
26179     \xdef\@firstcoltopmark{\the\toks@}%
26180     \toks@\expandafter{\splitfirstmark}%
26181     \xdef\@firstcolfirstmark{\the\toks@}%
26182     \ifx\@firstcolfirstmark\@empty
26183     \global\let\@setmarks\relax
26184     \else
26185     \gdef\@setmarks{%
26186         \let\firstmark\@firstcolfirstmark
26187         \let\topmark\@firstcoltopmark}%
26188     \fi
26189     \else
26190     \global\@firstcolumntrue
26191     \setbox\@outputbox\vbox{%
26192         \hb@xt@\textwidth{%
26193             \hskip \columnwidth
26194             \hfil
26195             {\normalcolor\vrule \@width\columnseprule}%
26196             \hfil

```



```

26197      \hb@xt@\columnwidth{%
26198      \bidi@firstcolumn@status@write%
26199      \box\@leftcolumn \hss}%
26200      \hskip -\textwidth
26201      \hb@xt@\columnwidth{%
26202      \bidi@lastcolumn@status@write%
26203      \box\@outputbox \hss}%
26204      \hskip \columnsep
26205      \hskip \columnwidth }}%
26206 \@@combinedblfloats
26207 \@@setmarks
26208 \@@outputpage
26209 \begin@group
26210 \@@dblfloatplacement
26211 \@@startdblcolumn
26212 \@@whilesw\if@fcolmade \fi{\@@outputpage
26213 \@@startdblcolumn}}%
26214 \end@group
26215 \fi}%
26216
26217 \def\LTR@outputdblcol{%
26218 \if@firstcolumn
26219 \global\@firstcolumnfalse
26220 \global\setbox\@leftcolumn\copy\@outputbox
26221 \splitmaxdepth\maxdimen
26222 \vbadness\maxdimen
26223 \setbox\@outputbox\vbox{\unvbox\@outputbox\unskip}%
26224 \setbox\@outputbox\vsplit\@outputbox to\maxdimen
26225 \toks@\expandafter{\topmark}%
26226 \xdef\@firstcoltopmark{\the\toks@}%
26227 \toks@\expandafter{\splitfirstmark}%
26228 \xdef\@firstcolfirstmark{\the\toks@}%
26229 \ifx\@firstcolfirstmark\@empty
26230 \global\let\@@setmarks\relax
26231 \else
26232 \gdef\@@setmarks{%
26233 \let\firstmark\@firstcolfirstmark
26234 \let\topmark\@firstcoltopmark}%
26235 \fi
26236 \else
26237 \global\@firstcolumntrue
26238 \setbox\@outputbox\vbox{%
26239 \hb@xt@\textwidth{%
26240 \hb@xt@\columnwidth{%
26241 \bidi@firstcolumn@status@write%
26242 \box\@leftcolumn \hss}%
26243 \hfil
26244 {\normalcolor\vrule \@width\columnseprule}%
26245 \hfil
26246 \hb@xt@\columnwidth{%
26247 \bidi@lastcolumn@status@write%
26248 \box\@outputbox \hss}}}%
26249 \@@combinedblfloats
26250 \@@setmarks

```



```

26251 \outputpage
26252 \begingroup
26253 \dblfloatplacement
26254 \startdblcolumn
26255 \whilesw@if@fcolmade \fi{\outputpage
26256 \startdblcolumn}%
26257 \endgroup
26258 \fi}%
26259
26260
26261 \renewcommand{\@outputdblcol}{\if@RTLmain\RTL@outputdblcol\else\LTR@outputdblcol\fi}
26262 \newcommand{\RTLdblcol}{\renewcommand{\@outputdblcol}{\RTL@outputdblcol}}
26263 \newcommand{\LTRdblcol}{\renewcommand{\@outputdblcol}{\LTR@outputdblcol}}
26264
26265 \bidi@patchcmd\@makecol{%
26266 \ifvoid\footins
26267 \setbox\@outputbox \box\@cclv
26268 \else
26269 \setbox\@outputbox \vbox {%
26270 \boxmaxdepth \@maxdepth
26271 \unvbox \@cclv
26272 \vskip \skip\footins
26273 \color@begingroup
26274 \normalcolor
26275 \footnoterule
26276 \unvbox \footins
26277 \color@endgroup
26278 }%
26279 \fi
26280 }{%
26281 \ifvoid\footins
26282 \ifvoid\@bidi@copyins@
26283 \setbox\@outputbox \box\@cclv
26284 \else
26285 \setbox\@outputbox \vbox {%
26286 \boxmaxdepth \@maxdepth
26287 \unvbox \@cclv
26288 \vskip \skip\@bidi@copyins@
26289 \color@begingroup
26290 \normalcolor
26291 \unvbox \@bidi@copyins@
26292 \color@endgroup
26293 }%
26294 \fi
26295 \else
26296 \setbox\@outputbox \vbox {%
26297 \boxmaxdepth \@maxdepth
26298 \unvbox \@cclv
26299 \vskip \skip\footins
26300 \color@begingroup
26301 \normalcolor
26302 \footnoterule
26303 \unvbox \footins
26304 \color@endgroup

```



```

26305     \ifvoid\@bidi@copyins@
26306     \else
26307         \vskip \skip\@bidi@copyins@
26308         \color@begingroup
26309         \normalcolor
26310         \unvbox \@bidi@copyins@
26311         \color@endgroup
26312     \fi
26313 }%
26314 \fi
26315 }{}{}
26316
26317 \def\LTRmarginpar{%
26318     \ifhmode
26319         \@bsphack
26320         \@floatpenalty -\@Mii
26321     \else
26322         \@floatpenalty-\@Miii
26323     \fi
26324     \ifinner
26325         \@parmoderr
26326         \@floatpenalty\z@
26327     \else
26328         \@next\@currbox\@freelist{}{}%
26329         \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
26330         {\@floatpenalty\z@
26331         \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}}%
26332     \fi
26333     \ifnextchar [\@LTRxmpar\@LTRympar}
26334 \long\def\@LTRxmpar[#1]#2{%
26335     \@LTRsavemarbox\@marbox{#1}%
26336     \@LTRsavemarbox\@currbox{#2}%
26337     \@xympar}
26338 \long\def\@LTRympar#1{%
26339     \@LTRsavemarbox\@marbox{#1}%
26340     \global\setbox\@currbox\copy\@marbox
26341     \@xympar}
26342 \long\def \@LTRsavemarbox #1#2{%
26343     \global\setbox #1%
26344         \color@vbox
26345         \vtop{%
26346             \hsize\marginparwidth
26347             \@parboxrestore
26348             \@LTRmarginparreset
26349             #2%
26350             \@minipagefalse
26351             \outer@nobreak
26352         }%
26353     \color@endbox
26354 }
26355 \def \@LTRmarginparreset {%
26356     \reset@font
26357     \normalsize
26358     \@minipagetrue

```



```

26359      \everypar{\@minipagefalse\everypar{}\beginL}%
26360 }
26361 \def\RTLmarginpar{%
26362   \ifhmode
26363     \@bsphack
26364     \@floatpenalty -\@Mii
26365   \else
26366     \@floatpenalty-\@Miii
26367   \fi
26368   \ifinner
26369     \@parmoderr
26370     \@floatpenalty\z@
26371   \else
26372     \@next\@currbox\@freelist{}\{}%
26373     \@next\@marbox\@freelist{\global\count\@marbox\m@ne}%
26374     {\@floatpenalty\z@
26375       \@fltovf\def\@currbox{\@tempboxa}\def\@marbox{\@tempboxa}}%
26376   \fi
26377   \ifnextchar [\@RTLxmpar\@RTLympar}
26378 \long\def\@RTLxmpar[#1]#2{%
26379   \@RTLSavemarbox\@marbox{#1}%
26380   \@RTLSavemarbox\@currbox{#2}%
26381   \@xympar}
26382 \long\def\@RTLympar#1{%
26383   \@RTLSavemarbox\@marbox{#1}%
26384   \global\setbox\@currbox\copy\@marbox
26385   \@xympar}
26386 \long\def \@RTLSavemarbox #1#2{%
26387   \global\setbox #1%
26388     \color@vbox
26389     \vtop{%
26390       \hsize\marginparwidth
26391       \@parboxrestore
26392       \RTLmarginparreset
26393       #2%
26394       \@minipagefalse
26395       \outer@nobreak
26396     }%
26397   \color@endbox
26398 }
26399 \def \@RTLmarginparreset {%
26400   \reset@font
26401   \normalsize
26402   \@minipagetrue
26403   \everypar{\@minipagefalse\everypar{}\beginR}%
26404 }
26405 \def\@addmarginpar{\@next\@marbox\@currlist{\@cons\@freelist\@marbox
26406   \@cons\@freelist\@currbox}\@latexbug\@tempcnta\@ne
26407   \if@twocolumn
26408     \if@firstcolumn \@tempcnta\m@ne \fi
26409   \else
26410     \if@mparswitch
26411       \ifodd\c@page \else\@tempcnta\m@ne \fi
26412   \fi

```



```

26413     \if@reversemargin \@tempcnta -\@tempcnta \fi
26414     \fi
26415     \ifnum\@tempcnta <\z@   \global\setbox\@marbox\box\@currbox \fi
26416     \@tempdima\@mparbottom
26417     \advance\@tempdima -\@pageht
26418     \advance\@tempdima\ht\@marbox
26419     \ifdim\@tempdima >\z@
26420         \@latex@warning@no@line {Marginpar on page \thepage\space moved}%
26421     \else
26422         \@tempdima\z@
26423     \fi
26424     \global\@mparbottom\@pageht
26425     \global\advance\@mparbottom\@tempdima
26426     \global\advance\@mparbottom\dp\@marbox
26427     \global\advance\@mparbottom\marginparpush
26428     \advance\@tempdima -\ht\@marbox
26429     \global\setbox \@marbox
26430             \vbox {\vskip \@tempdima
26431                     \box \@marbox}%
26432     \global \ht\@marbox \z@
26433     \global \dp\@marbox \z@
26434     \kern -\@pagedp
26435     \nointerlineskip
26436     \hb@xt@\columnwidth
26437     {\if@RTL\if@LTRmarginpar\beginL\else\beginR\fi\else\if@RTLmarginpar\beginR\else\beginL
26438       \hskip\columnwidth \hskip\marginparsep
26439     \else
26440       \hskip -\marginparsep \hskip -\marginparwidth
26441     \fi
26442     \box\@marbox \hss\if@RTL\if@LTRmarginpar\endL\else\endR\fi\else\if@RTLmarginpar\endR
26443     \nointerlineskip
26444     \hbox{\vrule \height\z@ \width\z@ \depth\@pagedp}}
26445 \long\def\@ympar#1{%
26446   \@savemarbox\@marbox{\if@RTL\if@LTRmarginpar\@RTLfalse\else\@RTLtrue\fi\else\if@RTLmarginp
26447   \global\setbox\@currbox\copy\@marbox
26448   \@xympar}
26449 \def\setRTLmarginpar{\@RTLmarginpartrue\@LTRmarginparfalse}
26450 \def\setLTRmarginpar{\@LTRmarginpartrue\@RTLmarginparfalse}
26451 \def\setdefaultmarginpar{\@RTLmarginparfalse\@LTRmarginparfalse}
26452 \def\@stopline{\unskip\@stopfield\if@rjfield \global\@rjfieldfalse
26453   \@tempdima\@totalleftmargin \advance\@tempdima\linewidth
26454 \hbox to\@tempdima{\if@RTL\beginR\fi\@itemfudge\hskip\dimen\@curtabmar
26455   \box\@curline\hfil\box\@curfield\if@RTL\endR\fi}\else\@addfield
26456   \hbox to\linewidth{\if@RTL\beginR\fi\@itemfudge
26457   \hskip\dimen\@curtabmar\box\@curline\hfil\if@RTL\endR\fi}}%
26458 \fi}
26459
26460 \newcommand*{\bidi@font@outputpage}{%
26461
26462 \def\outputpage{%
26463 \begingroup           % the \endgroup is put in by \aftergroup
26464   \let \protect \noexpand
26465   \@resetactivechars
26466   \global\let\@@if@newlist\if@newlist

```





```

26467 \global\@newlistfalse
26468 \@parboxrestore
26469 \global\let\@bidi@BeforeOutputPageShipOut\@firstofone
26470 \bidi@beforeoutputpageshipouthook
26471 \shipout \vbox{%
26472   \set@typeset@protect
26473   \aftergroup \endgroup
26474   \aftergroup \set@typeset@protect
26475                                     % correct? or just restore by ending
26476                                     % the group?
26477 \if@specialpage
26478   \global\@specialpagefalse\@nameuse{ps@\@specialstyle}%
26479 \fi
26480 \if@twoside
26481   \ifodd\count\z@ \let\@thehead\@oddhead \let\@thefoot\@oddfoot
26482   \ifRTLmain
26483     \let\@themargin\evensidemargin
26484   \else
26485     \let\@themargin\oddsidemargin
26486   \fi
26487 \else \let\@thehead\@evenhead \let\@thefoot\@evenfoot
26488   \ifRTLmain
26489     \let\@themargin\oddsidemargin
26490   \else
26491     \let\@themargin\evensidemargin
26492   \fi
26493 \fi
26494 \ifx\@thehead\@empty \let\@thehead\hfil \fi
26495 \ifx\@thefoot\@empty \let\@thefoot\hfil \fi
26496 \else %% not @twoside
26497 \ifx\@oddhead\@empty \let\@thehead\hfil \fi
26498 \ifx\@oddfoot\@empty \let\@thefoot\hfil \fi
26499 \fi
26500 \reset@font
26501 \normalsize
26502 \bidi@font@@outputpage
26503 \normalsfcodes
26504 \let\label\@gobble
26505 \let\index\@gobble
26506 \let\glossary\@gobble
26507 \baselineskip\z@skip \lineskip\z@skip \lineskiplimit\z@
26508 \@begindvi
26509 \vskip \topmargin
26510 \moveright\@themargin \vbox {%
26511   \global\let\@bidi@BeforeHeader\@firstofone
26512   \bidi@beforeheaderhook
26513   \setbox\@tempboxa \vbox to\headheight{%
26514     \vfil
26515     \color@hbox
26516     \normalcolor
26517     \hb@xt@\textwidth{\ifRTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thehead\if
26518     \color@endbox
26519     }%
26520     \dp\@tempboxa \z@

```



```

26521 \box\@tempboxa
26522 \vskip \headsep
26523 \global\let\bid@BeforeOutputBoxOutputPage\@firstofone
26524 \bid@beforeoutputboxoutputpagehook
26525 \box\@outputbox
26526 \global\let\bid@AfterOutputBoxOutputPage\@firstofone
26527 \bid@afteroutputboxoutputpagehook
26528 \global\let\bid@BeforeFooter\@firstofone
26529 \bid@beforefooterhook
26530 \baselineskip \footskip
26531 \color@hbox
26532 \normalcolor
26533 \hb@xt@\textwidth{\if@RTLmain\@RTLtrue\beginR\else\@RTLfalse\beginL\fi\@thefoot\if@R
26534 \color@endbox
26535 \global\let\bid@AfterFooter\@firstofone
26536 \bid@afterfooterhook
26537 }%
26538 }%
26539 \global\let\bid@AfterOutputPageShipOut\@firstofone
26540 \bid@afteroutputpageshipouthook
26541 \global\let\if@newlist\@if@newlist
26542 \global \colht \textheight
26543 \stepcounter{page}%
26544 \let\firstmark\botmark
26545 \global\let\bid@AtEndOutputPage\@firstofone
26546 \bid@atendoutputpagehook
26547 }
26548 \long\def\@makecaption#1#2{%
26549 \vskip\abovecaptionskip
26550 \sbox\@tempboxa{#1: #2}%
26551 \ifdim \wd\@tempboxa >\hsize
26552 \if@RTL\beginR\fi#1: #2\if@RTL\endR\fi\par
26553 \else
26554 \global \minipagefalse
26555 \hb@xt@\hsize{\if@RTL\beginR\fi\hfil\box\@tempboxa\hfil\if@RTL\endR\fi}%
26556 \fi
26557 \vskip\belowcaptionskip}
26558 \let\bid@saved@eqno=\eqno
26559 \let\bid@saved@leqno=\leqno
26560 \def\eqno{\ifnum\predisplaydirection<\z@ \bid@saved@leqno \else \bid@saved@eqno \fi}
26561 \def\leqno{\ifnum\predisplaydirection<\z@ \bid@saved@eqno \else \bid@saved@leqno \fi}
26562 \ApplyPatchIfPackageLoadedF{amsmath}{
26563 \def\@eqnnum{\normalfont \normalcolor \if@RTL\beginR\fi(\theequation)\if@RTL\endR\fi}}
26564 }
26565 \input{footnote-xetex-bidi.def}
26566 \if@twocolumn
26567 \let\autofooterule\relax
26568 \let\leftfootnoterule\relax
26569 \let\rightfootnoterule\relax
26570 \textwidthfootnoterule
26571 \fi
26572 \if@bidi@csundef{\idxitem}{\fi}%
26573 \renewcommand\@idxitem{\par\hangindent \if@RTL-\fi40\p}%
26574 }

```



```

26575
26576 \ApplyPatchToClassesIfPackageLoadedF{%
26577   book, %
26578   report %
26579 }{flowfram}
26580
26581 \ApplyPatchToPackageIfPackageLoadedF{float}{floatrow}
26582
26583 \ApplyPatchToFilesIfPackageLoadedF{amsmath}{%
26584   fleqn, %
26585   leqno%
26586 }[clo]
26587
26588 \ApplyPatchToClasses{%
26589   amsart, %
26590   amsbook, %
26591   article, %
26592   artikel1, %
26593   artikel2, %
26594   artikel3, %
26595   beamer, %
26596   boek, %
26597   boek3, %
26598   bookest, %
26599   combine, %
26600   extbook, %
26601   extletter, %
26602   extarticle, %
26603   extreport, %
26604   imsproc, %
26605   letter, %
26606   memoir, %
26607   rapport1, %
26608   rapport3, %
26609   refrep, %
26610   scrartcl, %
26611   scrbook, %
26612   screprt %
26613 }
26614
26615 \ApplyPatchToPackages{%
26616   adjmulticol, %
26617   algorithm2e, %
26618   amsmath, %
26619   amstext, %
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26621   arydshln, %
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26623   beamerbaseauxtemplates, %
26624   beamerbaseboxes, %
26625   beamerbasecolor, %
26626   beamerbasecompatibility, %
26627   beamerbaseframecomponents, %
26628   beamerbaseframesize, %

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26629 beamerbaselocalstructure, %
26630 beamerbasemisc, %
26631 beamerbasenavigation, %
26632 beamerbaseoverlay, %
26633 beamerinnerthemecircles, %
26634 beamerinnerthemedefault, %
26635 beamerinnerthemefocus, %
26636 beamerinnerthemeinmargin, %
26637 beamerinnerthememetropolis, %
26638 beamerinnerthemerectangles, %
26639 beamerinnerthemerounded, %
26640 beamerouterthemedefault, %
26641 beamerouterthemefocus, %
26642 beamerouterthemeinfoclines, %
26643 beamerouterthememetropolis, %
26644 beamerouterthememiniframes, %
26645 beamerouterthemesidebar, %
26646 beamerouterthemesplit, %
26647 beamerouterthemeshadow, %
26648 beamerouterthesmoothbars, %
26649 beamerouterthesmoothtree, %
26650 beamerouterthemetree, %
26651 beamerthemeHannover, %
26652 beamerthemeSingapore, %
26653 breqn, %
26654 cal, %
26655 caption, %
26656 caption3, %
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26659 crop, %
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26663 diagbox, %
26664 draftwatermark, %
26665 eso-pic, %
26666 empheq, %
26667 fancybox, %
26668 fancyhdr, %
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26673 footnotebackref, %
26674 framed, %
26675 ftnright, %
26676 geometry, %
26677 graphicx, %
26678 hvfloat, %
26679 hyperref, %
26680 lettrine, %
26681 lineno, %
26682 listings, %

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26687 media9, %
26688 midfloat, %
26689 minitoc, %
26690 multicol, %
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26692 natbib, %
26693 newfloat, %
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26695 ntheorem, %
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26698 pdfbase, %
26699 pdfscape, %
26700 pgfsys, %
26701 picinpar, %
26702 quotchap, %
26703 ragged2e, %
26704 rotating, %
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26706 soul, %
26707 stabular, %
26708 subfigure, %
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26711 tabulary, %
26712 tcolorbox, %
26713 titlesec, %
26714 titletoc, %
26715 tocbasic, %
26716 tocbibind, %
26717 tocloft, %
26718 tostyle, %
26719 todonotes, %
26720 wrapfig, %
26721 xcolor, %
26722 xltextra %
26723 }
26724
26725 \ApplyPatchToFiles{%
26726   pgfcorescopes.code, %
26727   pstricks %
26728 }[tex]
26729
26730 \ApplyPatchToFile{tc-xetex}

```

## 162 File xltextra-xetex-bidi.def

```

26731 \ProvidesFile{xltextra-xetex-bidi.def}[2010/07/25 v0.1 bidi adaptations for xltextra package f
26732 \let\@XeTeX\XeTeX
26733 \def\XeTeX{\@ensure@LTR{\@XeTeX}}

```



```

26734 \let\@@XeLaTeX\XeLaTeX
26735 \def\XeLaTeX{\@ensureLTR{\@@XeLaTeX}}

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