Package 'srr'

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Title 'rOpenSci' Software Review 'Roclets'

Version 1.1.0

Description Companion package to 'rOpenSci' statistical software review project ('rOpenSci' authors, 2021; <doi:10.5281/zenodo.5556756>), to facilitate documenting software compliance with statistical standards using 'Roxygen2' 'roclets'.

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URL https://docs.ropensci.org/srr/,
https://github.com/ropensci-review-tools/srr

BugReports https://github.com/ropensci-review-tools/srr/issues

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`srr_report` *Generate report from* `ssr` *tags.*

Description

Generate report from `ssr` tags.

Usage

```
srr_report(path = ".", branch = "", view = TRUE, roxygenise = TRUE)
```

Arguments

`path`	Path to package for which report is to be generated
`branch`	By default a report will be generated from the current branch as set on the local git repository; this parameter can be used to specify any alternative branch.
`view`	If `TRUE` (default), a html-formatted version of the report is opened in default system browser. If `FALSE`, the return object includes the name of a `html`-rendered version of the report in an attribute named 'file'.
`roxygenise`	If `TRUE` (default), documentation will first be updated with the **roxygen2** package. This requires local installation of the package, which may take some time if the package has not previously been installed. If this parameter is `FALSE`, the `roxygen2` package is not used, documentation is not updated, and reports are generally generated faster.

Value

(invisibly) Markdown-formatted lines used to generate the final html document.

Examples

```
path <- srr_stats_pkg_skeleton ()
## Not run:
srr_report (path)

## End(Not run)
unlink (path, recursive = TRUE)
```

`srr_stats_categories` *Get details of current statistical software categories*

Description

List all currently available categories and associated URLs to full category descriptions.

Usage

```
srr_stats_categories()
```

Value

A `data.frame` with 3 columns of "category" (the categories to be submitted to srr_stats_checklist), "title" (the full title), and "url".

See Also

Other helper: `srr_stats_checklist()`, `srr_stats_checklist_check()`, `srr_stats_pkg_skeleton()`, `srr_stats_pre_submit()`

Examples

```
srr_stats_categories ()
```

`srr_stats_checklist` *Download checklists of statistical software standards*

Description

Obtain rOpenSci standards for statistical software, along with one or more category-specific standards, as a checklist, and store the result in the local clipboard ready to paste.

Usage

```
srr_stats_checklist(category = NULL, filename = NULL)
```

Arguments

category	One of the names of files given in the directory contents of https://github.com/ropensci/statistical-software-review-book/tree/main/standards, each of which is ultimately formatted into a sub-section of the standards.
filename	Optional name of local file to save markdown-formatted checklist. A suffix of .md will be automatically appended.

Value

A character vector containing a markdown-style checklist of general standards along with standards for any additional categories.

See Also

Other helper: srr_stats_categories(), srr_stats_checklist_check(), srr_stats_pkg_skeleton(), srr_stats_pre_submit()

Examples

```
## Not run:
x <- srr_stats_checklist (category = "regression")
# or write to specified file:
f <- tempfile (fileext = ".md")
x <- srr_stats_checklist (category = "regression", filename = f)

## End(Not run)
```

---

srr_stats_checklist_check

Check a completed standards checklist

Description

Correct any potential formatting issues in a completed standards checklist

Usage

```
srr_stats_checklist_check(file)
```

Arguments

file	Name of local file containing a completed checklist. Must be a markdown document in .md format, not .Rmd or anything else.

Value

(Invisibly) A character vector of markdown-formatted lines containing the entire checklist of the specified file.

See Also

Other helper: srr_stats_categories(), srr_stats_checklist(), srr_stats_pkg_skeleton(), srr_stats_pre_submit()

Examples

```
f <- tempfile (fileext = ".md")
## Not run:
srr_stats_checklist (category = "regression", filename = f)
chk <- srr_stats_checklist_check (f)

## End(Not run)
```

---

srr_stats_pkg_skeleton

Make skeleton package to test roclet system

Description

Make a dummy package skeleton including 'srr' **roxygen2** tags which can be used to try out the functionality of this package. Running the example lines below which activate the 'srr' roclets, and show you what the output of those roclets looks like. Feel free to examine the effect of modifying any of the `@srrstats` tags within the code as identified by running those lines.

Usage

```
srr_stats_pkg_skeleton(base_dir = tempdir(), pkg_name = "demo")
```

Arguments

base_dir	The base directory where the package should be constructed.
pkg_name	The name of the package. The final location of this package will be in `file.path(base_dir, pkg_name)`.

Value

The path to the directory holding the newly created package

See Also

Other helper: srr_stats_categories(), srr_stats_checklist(), srr_stats_checklist_check(), srr_stats_pre_submit()

Examples

```
d <- srr_stats_pkg_skeleton (pkg_name = "mystatspkg")
# (capture.output of initial compliation messages)

x <- utils::capture.output (roxygen2::roxygenise (d), type = "output")

unlink (d, recursive = TRUE)
```

`srr_stats_pre_submit` *Perform pre-submission checks*

Description

Check that all standards are present in code, and listed either as '@srrstats' or '@srrstatsNA'

Usage

```
srr_stats_pre_submit(path = ".", quiet = FALSE)
```

Arguments

`path`	Path to local repository to check
`quiet`	If 'FALSE', display information on status of package on screen.

Value

(Invisibly) List of any standards missing from code

See Also

Other helper: `srr_stats_categories()`, `srr_stats_checklist()`, `srr_stats_checklist_check()`, `srr_stats_pkg_skeleton()`

Examples

```
d <- srr_stats_pkg_skeleton ()
# The skeleton has 'TODO' standards, and also has only a few from the full
# list expected for the categories specified there.

srr_stats_pre_submit (d)

unlink (d, recursive = TRUE)
```

srr_stats_roclet *srr_stats_roclet*

Description

Get values of all `srrstats` tags in function documentation

Usage

```
srr_stats_roclet()
```

Details

Note that this function should never need to be called directly. It only exists to enable "@srrstats" tags to be parsed from **roxygen2** documentation.

Value

A **roxygen2** roclet

See Also

Other roxygen: `srr_stats_roxygen()`

Examples

```
srr_stats_roclet ()
```

srr_stats_roxygen *Insert standards into code in* **roxygen2** *format*

Description

Obtain rOpenSci standards for statistical software, along with one or more category-specific standards, as a checklist, convert to project-specific **roxygen2** format, and save in nominated file.

Usage

```
srr_stats_roxygen(
  category = NULL,
  filename = "srr-stats-standards.R",
  overwrite = FALSE
)
```

Arguments

category	One of the names of files given in the directory contents of https://github.com/ropensci/statistical-software-review-book/tree/main/standards, each of which is ultimately formatted into a sub-section of the standards.
filename	Name of 'R' source file in which to write **roxygen2**-formatted lists of standards.
overwrite	If FALSE (default) and filename already exists, a dialogue will ask whether file should be overwritten.

Value

Nothing

See Also

Other roxygen: srr_stats_roclet()

Examples

```
path <- srr_stats_pkg_skeleton ()
# contains a few standards; insert all with:
f <- file.path (path, "R", "srr-stats-standards.R")
file.exists (f)
length (readLines (f)) # only 14 lines

srr_stats_roxygen (
    category = "regression",
    file = f,
    overwrite = TRUE
)
length (readLines (f)) # now much longer

unlink (path, recursive = TRUE)
```

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