Package 'ggwidth'

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Title Publication-Quality 'ggplot2' Geom Width

Version 0.3.0

Description Width helper functions for publication-quality 'ggplot2' visualisation. These functions make it easier to create geoms such as bars that have a consistent width appearance across plots.

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URL https://github.com/davidhodge931/ggwidth, https://davidhodge931.github.io/ggwidth/

BugReports https://github.com/davidhodge931/ggwidth/issues

Depends R (>= 4.1.0)

Imports ggplot2 (>= 4.0.0), grid, rlang

Suggests dplyr, forcats, ggrefine, patchwork, testthat (>= 3.0.0), tibble, withr

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Language en-GB

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get_width *Standardise* ggplot2 *geom width*

Description

Standardise the width in ggplot2 geoms so that widths appear visually consistent across plots with different numbers of categories, panel dimensions, and orientations.

This can be used in geoms such as ggplot2::geom_bar(), ggplot2::geom_col(), ggplot2::geom_boxplot(), and ggplot2::geom_errorbar().

The relevant panel dimension must be an absolute physical unit (for example grid::unit(..., "mm")), either supplied directly or set in the current theme. Relative units are not supported.

Usage

```
get_width(
  ...,
  n = NULL,
  dodge = NULL,
  orientation = c("x", "y"),
  equiwidth = NULL,
  panel_widths = NULL,
  panel_heights = NULL
)
```

Arguments

...	Must be empty. Forces all other arguments to be named and allows trailing commas.
n	Number of categories in the orientation aesthetic (that is, "x" or "y"). For faceted plots, use the maximum n across facets.
dodge	Number of dodge categories. Intended for use with position_dodge(preserve = "single").
orientation	Orientation: "x" for vertical geoms, "y" for horizontal geoms.
equiwidth	Numeric scaling factor controlling apparent width. A value of 1 is the default. Increase to make a wider appearance; decrease to make a thinner appearance. If NULL, uses the value set by update_equiwidth(), falling back to 1.
panel_widths	A grid::unit object specifying panel widths. If NULL, uses the value from the current theme.
panel_heights	A grid::unit object specifying panel heights. If NULL, uses the value from the current theme.

Value

A single numeric width suitable for the width argument of geoms such as ggplot2::geom_bar() or ggplot2::geom_col().

`update_equiwidth` *Update the global equiwidth*

Description

Update a global default for the `equiwidth` argument used by `get_width()`.

Usage

```
update_equiwidth(equiwidth = 1)
```

Arguments

`equiwidth`	A single positive finite numeric value.

Value

The previous option value, invisibly.

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