Package 'ggwidth'

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Title Standardise 'ggplot2' Geom Width

Version 0.1.0

Description Standardise the width in 'ggplot2' geoms to appear visually consistent across plots with different numbers of categories, panel dimensions, and orientations.

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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)

Suggests dplyr, forcats, patchwork, tibble

Encoding UTF-8

Language en-GB

RoxygenNote 7.3.3

NeedsCompilation no

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Repository CRAN

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get_width   *Standardise 'ggplot2' geom width*

Description

Standardise the width in 'ggplot2' geoms to 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(), ggplot2::geom_errorbar().

Usage

```
get_width(
  ...,
  n = NULL,
  n_dodge = NULL,
  orientation = "x",
  equiwidth = NULL,
  panel_widths = NULL,
  panel_heights = NULL
)
```

Arguments

...	Must be empty. Forces all other arguments to be named.
n	Number of categories in the orientation aesthetic (i.e. "x" or "y"). For faceted plots, use the maximum n within a facet.
n_dodge	Number of dodge categories. Must match the number of groups in the fill or colour aesthetic when using position_dodge().
orientation	Orientation: "x" for vertical (width appearance equiwidth to panel width), "y" for horizontal (width appearance equiwidth to panel height).
equiwidth	Numeric. Scaling factor that controls the width appearance. A value of 1 is the default. Increase to make a wider appearance, and decrease to make a thinner appearance. If NULL, uses the value set by set_equiwidth(), falling back to 1.
panel_widths	A grid::unit object specifying the panel width. If NULL (default), uses the value set in the current theme.
panel_heights	A grid::unit object specifying the panel height. If NULL (default), uses the value set in the current theme.

Value

A numeric width value passed to the width argument of geom_bar(), geom_col(), or similar geoms.

See Also

set_equiwidth()

Examples

```
library(ggplot2)
library(dplyr)
library(patchwork)

set_theme(
  theme_grey() +
    theme(panel.widths  = rep(unit(75, "mm"), 2)) +
    theme(panel.heights = rep(unit(50, "mm"), 2))
)
set_equiwidth(1)

p1 <- mpg |>
  ggplot(aes(x = drv)) +
  geom_bar(
    width = get_width(n = 3),
    colour = "black",
    fill = "grey",
  )

p2 <- diamonds |>
  ggplot(aes(x = color)) +
  geom_bar(
    width = get_width(n = 7),
    colour = "black",
    fill = "grey",
  )

p3 <- diamonds |>
  ggplot(aes(y = color)) +
  geom_bar(
    width = get_width(n = 7, orientation = "y"),
    colour = "black",
    fill = "grey",
  )

p4 <- mpg |>
  ggplot(aes(x = drv, group = factor(cyl))) +
  geom_bar(
    position = position_dodge(preserve = "single"),
    width = get_width(n = 3, n_dodge = 4),
    colour = "black",
    fill = "grey",
  )

p1 + p2 + p3 + p4

d <- tibble::tibble(
```

```
    continent = c("Europe", "Europe", "Europe", "Europe", "Europe",
                  "South America", "South America"),
    country   = c("AT", "DE", "DK", "ES", "PK", "TW", "BR"),
    value     = c(10L, 15L, 20L, 25L, 17L, 13L, 5L)
)

max_n <- d |>
  count(continent) |>
  pull(n) |>
  max()

d |>
  mutate(country = forcats::fct_rev(country)) |>
  ggplot(aes(y = country, x = value)) +
  geom_col(
    width = get_width(n = max_n, orientation = "y"),
    colour = "black",
    fill = "grey",
  ) +
  facet_wrap(~continent, scales = "free_y") +
  scale_y_discrete(continuous.limits = c(1, max_n)) +
  coord_cartesian(reverse = "y", clip = "off")

mpg |>
  ggplot(aes(x = drv)) +
  geom_bar(
    width = get_width(n = 3, panel_widths = unit(160, "mm")),
    colour = "black",
    fill = "grey",
  ) +
  theme(panel.widths = unit(160, "mm"))
```

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set_equiwidth   *Set a global equiwidth*

Description

Sets a global default for the `equiwidth` argument in `get_width()`. This is the scaling factor that controls the width appearance. All subsequent calls to `get_width()` use this value when `equiwidth = NULL`, and fall back to 1.

Usage

```
set_equiwidth(equiwidth = 1)
```

Arguments

equiwidth   Numeric. Multiplicative factor that controls the width appearance. A value of
                 1 is the default. Increase to make a wider appearance, and decrease to make a
                 thinner appearance.

Value

No return value. Side effects only.

See Also

[get_width()](#)

Examples

```
set_equiwidth(1)
set_equiwidth(0.75)
set_equiwidth(1.33)
```

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