

Package ‘ggerror’

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Title Extended Error Geoms for 'ggplot2'

Version 0.3.0

Description Extends the 'ggplot2' error geoms.

geom_error() accepts an 'error' aesthetic with auto-inference of the orientation.

It also supports 'error_neg' and 'error_pos' for asymmetric cases, with full control over aesthetics per side, such as color, width etc...

The package also includes a vignette covering it's main usecases - symmetric, asymmetric, one-sided, and per-side styling.

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Encoding UTF-8

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Imports cli, ggplot2 (>= 3.4.0), rlang

Suggests knitr, purrr, rmarkdown, svglite, testthat (>= 3.0.0), vdiffr (>= 1.0.0)

Config/testthat/edition 3

VignetteBuilder knitr

URL <https://github.com/iamYannC/ggerror>

BugReports <https://github.com/iamYannC/ggerror/issues>

NeedsCompilation no

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geom_error

*Error bars with automatic orientation***Description**

A thin wrapper around `ggplot2::geom_errorbar()`, `ggplot2::geom_linerange()`, `ggplot2::geom_crossbar()`, and `ggplot2::geom_pointrange()` that accepts a single error aesthetic and figures out orientation from the data. For asymmetric errors, use `error_neg` + `error_pos` instead of `error`.

Usage

```
geom_error(
  mapping = NULL,
  data = NULL,
  stat = "identity",
  position = "identity",
  ...,
  error_geom = "errorbar",
  orientation = NA,
  na.rm = FALSE,
  show.legend = NA,
  inherit.aes = TRUE
)

geom_error_linerange(..., error_geom)

geom_error_crossbar(..., error_geom)

geom_error_pointrange(..., error_geom)
```

Arguments

<code>mapping</code>	Set of aesthetic mappings created by <code>ggplot2::aes()</code> .
<code>data</code>	The data to be displayed in this layer.
<code>stat</code>	The statistical transformation to use on the data. Defaults to "identity".
<code>position</code>	Position adjustment.
<code>...</code>	Other arguments passed on to <code>ggplot2::layer()</code> .
<code>error_geom</code>	One of "errorbar" (default), "linerrange", "crossbar", or "pointrange". Chooses which ggplot2 range geom <code>geom_error()</code> dispatches to under the hood.
<code>orientation</code>	Either NA (the default; inferred from the data), "x" (vertical error), or "y" (horizontal error).
<code>na.rm</code>	If FALSE, missing values are removed with a warning.
<code>show.legend</code>	Logical. Should this layer be included in the legends?
<code>inherit.aes</code>	If FALSE, overrides the default aesthetics.

Aesthetics

geom_error() requires x, y, and one of:

- error — symmetric half-width applied along the non-categorical axis.
- error_neg **and** error_pos — asymmetric; the bar extends error_neg in the negative direction and error_pos in the positive direction along the non-categorical axis. For a one-sided bar, set the unused side to 0 explicitly.

Mixing error with error_neg / error_pos is an error, as is providing only one of the asymmetric pair.

Fixed per-side styling can be supplied through ... with _neg and _pos suffixes for colour, fill, linewidth, linetype, alpha, and width. These are fixed scalar parameters, not mapped aesthetics.

Examples

```
library(ggplot2)

ggplot(mtcars, aes(mpg, rownames(mtcars))) +
  geom_point() +
  geom_error(aes(error = drat))

ggplot(mtcars, aes(factor(cyl), mpg)) +
  geom_point() +
  geom_error(aes(error = drat), error_geom = "pointrange")

# Asymmetric: bar extends drat/2 below and drat above each point
ggplot(mtcars, aes(factor(cyl), mpg)) +
  geom_point() +
  geom_error(aes(error_neg = drat / 2, error_pos = drat))

# Style the negative and positive halves separately
ggplot(mtcars, aes(factor(cyl), mpg)) +
  geom_point() +
  geom_error(
    aes(error_neg = drat / 2, error_pos = drat),
    colour_neg = "steelblue",
    colour_pos = "firebrick"
  )
```

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