Package ‘ggblanket’

July 27, 2024

Title  Simplify 'ggplot2' Visualisation
Version  10.0.0
Description  Simplify 'ggplot2' visualisation with 'ggblanket' wrapper functions.
License  MIT + file LICENSE
URL  https://davidhodge931.github.io/ggblanket/,
     https://github.com/davidhodge931/ggblanket
BugReports  https://github.com/davidhodge931/ggblanket/issues
Imports  colorspace, dplyr (>= 1.0.4), farver, forcats, ggplot2 (>= 3.5.0), grid, hms (>= 0.5.0), labelled, lubridate (>= 1.7.8), magrittr, purrr, rlang (>= 1.1.0), scales (>= 1.3.0), snakecase, stringr (>= 1.3.0), tidy (>= 1.0.0), tidyselect (>= 1.2.0), viridisLite
Suggests  spelling, hexbin, isoband, knitr, palmerpenguins, patchwork, quantreg, rmarkdown, sf, testthat (>= 3.0.0), tibble, vdiffr, viridis
VignetteBuilder  knitr
Config/Needs/website  concaveman, corrr, farver, ggbeeswarm, ggblend, ggdensity, ggdensity, ggdist, ggforce, ggb4x, gghighlight, ggnewscale, ggrepel, gggridges, ggpattern, glue, marquee, paletteer, showtext, sysfonts
Config/testthat/edition  3
Encoding  UTF-8
Language  en-GB
RoxygenNote  7.3.1
NeedsCompilation  no
Author  David Hodge [aut, cre, cph] (<https://orcid.org/0000-0002-3868-7501>)
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Repository  CRAN
Date/Publication  2024-07-26 22:20:02 UTC
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aes_colour_contrast

Description

A colour aesthetic to contrast with a fill aesthetic. Can be spliced into ggplot2::aes with rlang::!!!.

Usage

aes_colour_contrast(...) dark = "#121B24FF", light = "#FFFFFF"

Arguments

... Provided to force user argument naming etc.
dark A dark colour.
light A light colour.

Value

A ggplot2 aesthetic

Examples

library(ggplot2)
library(dplyr)
library(stringr)
library(palmerpenguins)
set_blanket()
penguins |> count(species, sex) |>
gg_col(
  x = sex,
  y = n,
  col = species,
  label = n,
  position = position_dodge2(preserve = "single"),
width = 0.75,
x_labels = \(x) str_to_sentence(x),
) +
geom_text(
  mapping = aes_colour_contrast(),
  position = position_dodge2(width = 0.75, preserve = "single"),
  vjust = 1.33,
  show.legend = FALSE,
)

penguins |>
  count(species, sex) |>
  gg_col(
    x = sex,
    y = n,
    col = species,
    position = position_dodge2(preserve = "single"),
    width = 0.75,
    x_labels = \(x) str_to_sentence(x),
    mode = dark_mode_r(),
  ) +
geom_text(
  mapping = aes(label = n, !!!aes_colour_contrast(dark = darkness[3], light = darkness[1]))),
  position = position_dodge2(width = 0.75, preserve = "single"),
  vjust = 1.33,
  show.legend = FALSE,
)

---

**aes_colour_darken**

*Lighten/darken a colour/fill aesthetic*

**Description**

Lighten/darken a colour/fill aesthetic based on a

- `aes_colour_darken()` Darken a colour aesthetic, relative to a fill aesthetic
- `aes_colour_lighten()` Lighten a colour aesthetic, relative to the fill aesthetic
- `aes_fill_darken()` Darken a fill aesthetic, relative to a colour aesthetic
- `aes_fill_lighten()` Lighten a fill aesthetic, relative to the colour aesthetic Can be spliced into `ggplot2::aes` with `rlang::!!!`.

**Usage**

- `aes_colour_darken(..., amount = 0.1)`
- `aes_colour_lighten(..., amount = 0.1)`
- `aes_fill_darken(..., amount = 0.1)`
- `aes_fill_lighten(..., amount = 0.1)`
blue

Arguments

... Other arguments passed to `colorspace::darken()`/`colorspace::lighten()`.

amount Numeric specifying the amount of lightening or darkening.

Value

A ggplot2 aesthetic

Examples

```r
library(ggblanket)
library(ggplot2)
library(palmerpenguins)

set_blanket(
  alpha_recursive = 1,
)

penguins |> 
  gg_bar(
    y = species,
    col = island,
    mapping = aes_colour_darken(amount = 0.2),
    width = 0.75,
  )

penguins |> 
  gg_bar(
    y = species,
    col = island,
    mapping = aes(!!!aes_colour_darken(amount = 0.2)),
    width = 0.75,
  )
```

---

blue A blue colour

Description

A blue colour.

Usage

blue

Value

A character vector.
## Examples

```r
scales::show_col(blue)
```

---

### dark_mode_r

**Dark mode theme family**

### Description

A dark mode family of functions:

- `dark_mode_r()` with legend on right
- `dark_mode_t()` with legend on top
- `dark_mode_b()` with legend on bottom

### Usage

```r
dark_mode_r(
  ..., 
  base_size = 11,
  base_family = "",
  base_colour = "#C8D7DFFF",
  axis_line_colour = "#C8D7DFFF",
  axis_line_linewidth = 0.33,
  axis_ticks_colour = axis_line_colour,
  axis_ticks_linewidth = axis_line_linewidth,
  panel_grid_colour = "#00040AFF",
  panel_grid_linewidth = 1.33,
  panel_background_fill = "#050D1BFF",
  plot_background_fill = "#00040AFF",
  legend_axis_line_colour = plot_background_fill,
  legend_axis_line_linewidth = 0.33,
  legend_background_fill = plot_background_fill,
  legend_key_fill = plot_background_fill,
  legend_ticks_colour = legend_axis_line_colour,
  legend_ticks_linewidth = legend_axis_line_linewidth,
  legend_ticks_length = ggplot2::rel(c(0.175, 0))
)
```

```r
dark_mode_t(
  ..., 
  base_size = 11,
  base_family = "",
  base_colour = "#C8D7DFFF",
  axis_line_colour = "#C8D7DFFF",
  axis_line_linewidth = 0.33,
  axis_ticks_colour = axis_line_colour,
```

...
Arguments

... Provided to force user argument naming etc.

base_size The base size of the text theme element. Defaults to 11.

base_family The base family of the text theme element. Defaults to "".

base_colour The base colour of the text theme element.

axis_line_colour The colour of the axis.line theme element.

axis_line_linewidth The linewidth of the axis.line theme element.

axis_ticks_colour The colour of the axis.ticks theme element.
axis_ticks_linewidth
The linewidth of the axis.ticks theme element.

panel_grid_colour
The colour of the panel.grid theme element.

panel_grid_linewidth
The linewidth of the panel.grid theme element.

panel_background_fill
The fill (and colour) of the panel.background theme element.

plot_background_fill
The fill (and colour) of the plot.background theme element.

legend_axis_line_colour
The colour of the legend.axis.line theme element.

legend_axis_line_linewidth
The linewidth of the legend.axis.line theme element.

legend_background_fill
The fill (and colour) of the legend.background theme element.

legend_key_fill
The fill (and colour) of the legend.key theme element.

legend_ticks_colour
The colour of the legend.ticks theme element.

legend_ticks_linewidth
The linewidth of the legend.ticks theme element.

legend_ticks_length
The legend.ticks.length theme element.

Value
A ggplot theme.

Examples

library(palmerpenguins)
library(ggplot2)

set_blanket()

penguins |> gg_point(
  x = flipper_length_mm,
  y = body_mass_g,
  col = species,
  mode = dark_mode_r()
)

penguins |> gg_point(
  x = flipper_length_mm,
  y = body_mass_g,
```r
col = species,
mode = dark_mode_t()
)
penguins |> gg_point(
  x = flipper_length_mm,
  y = body_mass_g,
  col = species,
  mode = dark_mode_b()
)
```

---

### Description

Create an area ggplot with a wrapper around `ggplot2::ggplot()` + `geom_area()`.

### Usage

```r
gg_area(
  data = NULL,
  ...,
  stat = "align",
  position = "stack",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
```
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_to_case = snakecase::to_sentence_case
)
Arguments

data  A data frame or tibble.

...  Other arguments passed to within a params list in layer().

stat  A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. "identity").

position  A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).

coord  A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).

mode  A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.

mode_orientation
  The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".

x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample
  An unquoted aesthetic variable.

mapping  A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.

x_breaks, y_breaks, col_breaks
  A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.

x_breaks_n, y_breaks_n, col_breaks_n
  A number of desired breaks for when *_breaks = NULL.

x_expand, y_expand
  Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).

x_expand_limits, y_expand_limits, col_expand_limits
  For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.

x_label, y_label, col_label
  Label for the axis or legend title. Use + ggplot2::labs(...) = NULL) for no title.

x_labels, y_labels, col_labels, facet_labels
  A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).

x_position, y_position
  The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".

x_sec_axis, y_sec_axis
  A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric, y_symmetric
    TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform
    For a continuous scale, a transformation object (e.g. scales::transform_log10())
    or character string of this minus the transform_ prefix (e.g. "log10").

col_drop, facet_drop
    For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow
    The number of columns and rows in a legend guide.

col_legend_rev
    TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

col_palette
    A character vector of hex codes (or names) or a scales::pal_*() function.

col_palette_na
    A hex code (or name) for the colour of NA values.

col_rescale
    For a continuous variable, a scales::rescale() function.

col_steps
    For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

facet_axes
    Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_mode_*() may be needed.

facet_axis_labels
    Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout
    Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

facet_ncol, facet_nrow
    The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

facet_scales
    Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

facet_space
    When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title
    Title string.

subtitle
    Subtitle string.

caption
    Caption title string.

label_to_case
    A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value
    A ggplot object.
Examples

```r
library(ggplot2)
library(dplyr)

set_blanket()

economics |>
  gg_area(
    x = date,
    y = unemploy,
    y_label = "Unemployment",
  )
```

Description

Create a bar ggplot with a wrapper around `ggplot2::ggplot() + geom_bar()`.

Usage

```r
gg_bar(
  data = NULL,
  ..., stat = "count",
  position = "stack",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
)
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,


```r
label_to_case = snakecase::to_sentence_case
```

### Arguments

**data**  
A data frame or tibble.

...  
Other arguments passed to within a `params` list in `layer()`.

**stat**  
A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. "identity").

**position**  
A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. "identity"), or a `position_*()` function that outputs a ggproto Position subclass object (e.g. `ggplot2::position_identity()`).

**coord**  
A coordinate system. A `coord_*()` function that outputs a constructed ggproto Coord subclass object (e.g. `ggplot2::coord_cartesian()`).

**mode**  
A ggplot2 theme (e.g. `light_mode_t()` or `dark_mode_r()`) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the `mode_orientation`.

**mode_orientation**  
The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".

An unquoted aesthetic variable.

**mapping**  
A set of additional aesthetic mappings in `ggplot2::aes()`. Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.

**x_breaks**, **y_breaks**, **col_breaks**  
A `scales::breaks_*` function (e.g. `scales::breaks_*()`), or a vector of breaks.

**x_breaks_n**, **y_breaks_n**, **col_breaks_n**  
A number of desired breaks for when `*_breaks = NULL`.

**x_expand**, **y_expand**  
Padding to the limits with the `ggplot2::expansion()` function, or a vector of length 2 (e.g. `c(0, 0)`).

**x_expand_limits**, **y_expand_limits**, **col_expand_limits**  
For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with `forcats::fct_expand`.

**x_label**, **y_label**, **col_label**  
Label for the axis or legend title. Use `+ ggplot2::labs(... = NULL)` for no title.

**x_labels**, **y_labels**, **col_labels**, **facet_labels**  
A function that takes the breaks as inputs (e.g. `\(x\) stringr::str_to_sentence(x)` or `scales::label_*()`), or a vector of labels. (Note this must be named for `facet_labels`).

**x_position**, **y_position**  
The position of the axis (i.e. "left", "right", "bottom" or "top"). If using `y_position = "top"` with a *_mode_* theme, add caption = "" or caption = "\n".
**x_sec_axis, y_sec_axis**
A secondary axis with `ggplot2::dup_axis()` or `ggplot2::sec_axis()`.

**x_symmetric, y_symmetric**
TRUE or FALSE of whether a symmetric scale.

**x_transform, y_transform, col_transform**
For a continuous scale, a transformation object (e.g. `scales::transform_log10()`)
or character string of this minus the `transform_` prefix (e.g. "log10").

**col_drop, facet_drop**
For a discrete variable, FALSE or TRUE of whether to drop unused levels.

**col_legend_ncol, col_legend_nrow**
The number of columns and rows in a legend guide.

**col_legend_rev**
TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

**col_palette**
A character vector of hex codes (or names) or a `scales::pal_*()` function.

**col_palette_na**
A hex code (or name) for the colour of NA values.

**col_rescale**
For a continuous variable, a `scales::rescale()` function.

**col_steps**
For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

**facet_axes**
Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes `*_mode_*()` may be needed.

**facet_axis_labels**
Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

**facet_layout**
Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

**facet_ncol, facet_nrow**
The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

**facet_scales**
Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

**facet_space**
When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

**title**
Title string.

**subtitle**
Subtitle string.

**caption**
Caption title string.

**label_to_case**
A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to `snakecase::to_sentence_case`.

---

**Value**
A ggplot object.
Examples

```
library(ggplot2)
library(dplyr)
library(palmerpenguins)

set_blanket()
penguins |> 
  gg_bar(
    y = species,
    width = 0.75,
  )
```

---

**gg_bin_2d** | **Bin_2d ggplot**

Description

Create a bin2d ggplot with a wrapper around `ggplot2::ggplot()` + `geom_bin_2d()`.

Usage

```
gg_bin_2d(
  data = NULL,
  ..., 
  stat = "bin2d",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
)```
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,


```r
def label_to_case = snakecase::to_sentence_case
```

### Arguments

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>data</strong></td>
<td>A data frame or tibble.</td>
</tr>
<tr>
<td><code>...</code></td>
<td>Other arguments passed to within a params list in <code>layer()</code>.</td>
</tr>
<tr>
<td><strong>stat</strong></td>
<td>A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. &quot;identity&quot;).</td>
</tr>
<tr>
<td><strong>position</strong></td>
<td>A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. &quot;identity&quot;), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).</td>
</tr>
<tr>
<td><strong>coord</strong></td>
<td>A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).</td>
</tr>
<tr>
<td><strong>mode</strong></td>
<td>A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.</td>
</tr>
<tr>
<td><strong>mode_orientation</strong></td>
<td>The orientation of plot, which affects the theme components that are removed from the mode. Either &quot;x&quot; or &quot;y&quot;.</td>
</tr>
<tr>
<td><strong>mapping</strong></td>
<td>A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.</td>
</tr>
<tr>
<td><strong>x_breaks</strong>, <strong>y_breaks</strong>, <strong>col_breaks</strong></td>
<td>A scales::breaks_* function (e.g. scales::breaks_*(x)), or a vector of breaks.</td>
</tr>
<tr>
<td><strong>x_breaks_n</strong>, <strong>y_breaks_n</strong>, <strong>col_breaks_n</strong></td>
<td>A number of desired breaks for when *_breaks = NULL.</td>
</tr>
<tr>
<td><strong>x_expand</strong>, <strong>y_expand</strong></td>
<td>Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).</td>
</tr>
<tr>
<td><strong>x_expand_limits</strong>, <strong>y_expand_limits</strong>, <strong>col_expand_limits</strong></td>
<td>For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.</td>
</tr>
<tr>
<td><strong>x_label</strong>, <strong>y_label</strong>, <strong>col_label</strong></td>
<td>Label for the axis or legend title. Use + ggplot2::labs(... = NULL) for no title.</td>
</tr>
<tr>
<td><strong>x_labels</strong>, <strong>y_labels</strong>, <strong>col_labels</strong>, <strong>facet_labels</strong></td>
<td>A function that takes the breaks as inputs (e.g. (x) stringr::str_to_sentence(x) or scales::label_*(x), or a vector of labels. (Note this must be named for facet_labels).</td>
</tr>
</tbody>
</table>
| **x_position**, **y_position** | The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".
x_sec_axis, y_sec_axis
   A secondary axis with `ggplot2::dup_axis()` or `ggplot2::sec_axis()`.

x_symmetric, y_symmetric
   TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform
   For a continuous scale, a transformation object (e.g. `scales::transform_log10()`)
   or character string of this minus the `transform_` prefix (e.g. "log10").

col_drop, facet_drop
   For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow
   The number of columns and rows in a legend guide.

col_legend_rev
   TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

col_palette
   A character vector of hex codes (or names) or a `scales::pal_*()` function.

col_palette_na
   A hex code (or name) for the colour of NA values.

col_rescale
   For a continuous variable, a `scales::rescale()` function.

col_steps
   For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

facet_axes
   Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes `*_mode_*()` may be needed.

facet_axis_labels
   Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout
   Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

facet_ncol, facet_nrow
   The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

facet_scales
   Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

facet_space
   When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title
   Title string.

subtitle
   Subtitle string.

caption
   Caption title string.

label_to_case
   A function to format the default `x_label`, `y_label` and `col_label` of unlabelled variables. Defaults to `snakecase::to_sentence_case`.

Value

A ggplot object.
Examples

```r
library(ggplot2)
library(dplyr)

set_blanket()

diamonds |> 
  gg_bin_2d(
    x = carat,
    y = price,
  )
```

Description

Create a blanket ggplot with a wrapper around `ggplot2::ggplot()` + `layer()` with `geom_blank()` defaults. This function underlies all other `gg_` functions. It contains a `geom` argument for maximum flexibility.

Usage

```r
gg_blanket(
  data = NULL,
  ..., 
  geom = "blank",
  stat = "identity",
  position = "identity",
  coord = NULL,
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
)```
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
Arguments

data  A data frame or tibble.
... Other arguments passed to within a params list in layer().
geom  A geometric object to display the data. A snakecase character string of a ggproto Geom subclass object minus the Geom prefix (e.g. "point").
stat  A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. "identity").
position  A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
coord  A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).
mode  A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.
mode_orientation
  The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample
  An unquoted aesthetic variable.
mapping
  A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks
  A scales::breaks_* function (e.g. scales::breaks_()), or a vector of breaks.
x_breaks_n, y_breaks_n, col_breaks_n
  A number of desired breaks for when *_breaks = NULL.
x_expand, y_expand
  Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).
x_expand_limits, y_expand_limits, col_expand_limits
  For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_label, col_label
  Label for the axis or legend title. Use + ggplot2::labs(... = NULL) for no title.
x_labels, y_labels, col_labels, facet_labels
  A function that takes the breaks as inputs (e.g. \(x\) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position, y_position
The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *theme*, add caption = "" or caption = "\n".

x_sec_axis, y_sec_axis
A secondary axis with `ggplot2::dup_axis()` or `ggplot2::sec_axis()`.

x_symmetric, y_symmetric
TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform
For a continuous scale, a transformation object (e.g. `scales::transform_log10()`) or character string of this minus the `transform_` prefix (e.g. "log10").

col_drop, facet_drop
For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_leggend_ncol, col_leggend_nrow
The number of columns and rows in a legend guide.

col_leggend_rev
TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

col_palette
A character vector of hex codes (or names) or a `scales::pal_*()` function.

col_palette_na
A hex code (or name) for the colour of NA values.

col_rescale
For a continuous variable, a `scales::rescale()` function.

col_steps
For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

facet_axes
Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *theme* may be needed.

facet_axis_lables
Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout
Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

facet_ncol, facet_nrow
The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

facet_scales
Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

facet_space
When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title
Title string.

subtitle
Subtitle string.

caption
Caption title string.

label_to_case
A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to `snakecase::to_sentence_case`. 
Value

A ggplot object.

Examples

```r
library(ggplot2)
library(dplyr)
library(palmerpenguins)

set_blanket()

penguins %>%
gg_blanket(
  geom = "violin",
  stat = "ydensity",
  position = "dodge",
  x = species,
  y = body_mass_g,
  col = sex,
)
```

Description

Create a boxplot ggplot with a wrapper around `ggplot2::ggplot()` + `geom_boxplot()`.

Usage

```r
gg_boxplot(
  data = NULL,
  ...,
  stat = "boxplot",
  position = "dodge2",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
)```
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
Arguments

data

A data frame or tibble.

... Other arguments passed to within a `params` list in `layer()`.

stat

A statistical transformation to use on the data. A snakecase character string of a `ggproto` Stat subclass object minus the Stat prefix (e.g. "identity").

position

A position adjustment. A snakecase character string of a `ggproto` Position subclass object minus the Position prefix (e.g. "identity"), or a `position_*()` function that outputs a `ggproto` Position subclass object (e.g. `ggplot2::position_identity()`).

coord

A coordinate system. A `coord_*()` function that outputs a constructed `ggproto` Coord subclass object (e.g. `ggplot2::coord_cartesian()`).

mode

A `ggplot2` theme (e.g. `light_mode_t()` or `dark_mode_r()`) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the `mode_orientation`.

mode_orientation

The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".

x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample

An unquoted aesthetic variable.

mapping

A set of additional aesthetic mappings in `ggplot2::aes()`. Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.

x_breaks, y_breaks, col_breaks

A `scales::breaks_*` function (e.g. `scales::breaks_*()`), or a vector of breaks.

x_breaks_n, y_breaks_n, col_breaks_n

A number of desired breaks for when `*_breaks = NULL`.

x_expand, y_expand

Padding to the limits with the `ggplot2::expansion()` function, or a vector of length 2 (e.g. `c(0, 0)`).

x_expand_limits, y_expand_limits, col_expand_limits

For a continuous variable, any values that the limits should encompass (e.g. `0`). For a discrete scale, manipulate the data instead with `forcats::fct_expand`.

x_label, y_label, col_label

Label for the axis or legend title. Use `+ ggplot2::labs(... = NULL)` for no title.
x_labels, y_labels, col_labels, facet_labels
   A function that takes the breaks as inputs (e.g. `\((x)\)` stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).

x_position, y_position
   The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".

x_sec_axis, y_sec_axis
   A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().

x_symmetric, y_symmetric
   TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform
   For a continuous scale, a transformation object (e.g. scales::transform_log10()) or character string of this minus the transform_ prefix (e.g. "log10").

col_drop, facet_drop
   For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow
   The number of columns and rows of a legend guide.

col_legend_rev
   TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

col_palette
   A character vector of hex codes (or names) or a scales::pal_*() function.

col_palette_na
   A hex code (or name) for the colour of NA values.

col_rescale
   For a continuous variable, a scales::rescale() function.

col_steps
   For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

facet_axes
   Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_mode_*() may be needed.

facet_axis_labels
   Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout
   Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

facet_ncol, facet_nrow
   The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

facet_scales
   Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

facet_space
   When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title
   Title string.
gg_col

subtitle

caption

label_to_case A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

library(ggplot2)
library(dplyr)
library(palmerpenguins)

set_blanket()
penguins |> 
  gg_boxplot(
    x = flipper_length_mm, 
    y = species, 
    col = sex, 
  )

Description

Create a col ggplot with a wrapper around ggplot2::ggplot() + geom_col().

Usage

gg_col(
  data = NULL, 
  ..., 
  stat = "identity", 
  position = "stack", 
  coord = ggplot2::coord_cartesian(clip = "off"), 
  mode = NULL, 
  mode_orientation = NULL, 
  x = NULL, 
  xmin = NULL, 
  xmax = NULL, 
  xend = NULL, 
  y = NULL, 
  ymin = NULL, 
  yend = NULL, 
  ...)

Col ggplot

Value

A ggplot object.

Examples

library(ggplot2)
library(dplyr)
library(palmerpenguins)

set_blanket()
penguins |> 
  gg_boxplot(
    x = flipper_length_mm, 
    y = species, 
    col = sex, 
  )
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
gg_col

facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_to_case = snakecase::to_sentence_case
)

Arguments

data A data frame or tibble.

... Other arguments passed to within a params list in layer().

stat A statistical transformation to use on the data. A snakecase character string of a
ggproto Stat subclass object minus the Stat prefix (e.g. "identity").

position A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).

coord A coordinate system. A coord_*() function that outputs a constructed ggproto
Coord subclass object (e.g. ggplot2::coord_cartesian()).

mode A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates
side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.

mode_orientation The orientation of plot, which affects the theme components that are removed
from the mode. Either "x" or "y".

x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group,
subgroup, label, text, sample
An unquoted aesthetic variable.

mapping A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily
for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but
can also be used for delayed evaluation etc.

x_breaks, y_breaks, col_breaks
A scales::breaks_* function (e.g. scales::breaks_*)(), or a vector of
breaks.

x_breaks_n, y_breaks_n, col_breaks_n
A number of desired breaks for when *_breaks = NULL.

x_expand, y_expand Padding to the limits with the ggplot2::expansion() function, or a vector of
length 2 (e.g. c(0, 0)).

x_expand_limits, y_expand_limits, col_expand_limits
For a continuous variable, any values that the limits should encompass (e.g. 0).
For a discrete scale, manipulate the data instead with forcats::fct_expand.
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**gg_col**

\[\begin{align*}
    &\text{x_label, y_label, col_label} \\
    &\quad \text{Label for the axis or legend title. Use } + \text{ggplot2::labs(... = NULL)} \text{ for no title.} \\
    &\text{x_labels, y_labels, col_labels, facet_labels} \\
    &\quad \text{A function that takes the breaks as inputs (e.g. } \text{\stringr::str_to_sentence(x)} \text{ or } \text{scales::label_*()}, \text{ or a vector of labels. (Note this must be named for facet_labels).} \\
    &\text{x_position, y_position} \\
    &\quad \text{The position of the axis (i.e. "left", "right", "bottom" or "top"). If using } \text{y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".} \\
    &\text{x_sec_axis, y_sec_axis} \\
    &\quad \text{A secondary axis with } \text{ggplot2::dup_axis()} \text{ or } \text{ggplot2::sec_axis().} \\
    &\text{x_symmetric, y_symmetric} \\
    &\quad \text{TRUE or FALSE of whether a symmetric scale.} \\
    &\text{x_transform, y_transform, col_transform} \\
    &\quad \text{For a continuous scale, a transformation object (e.g. } \text{scales::transform_log10()}} \text{ or character string of this minus the transform_ prefix (e.g. "log10").} \\
    &\text{col_drop, facet_drop} \\
    &\quad \text{For a discrete variable, FALSE or TRUE of whether to drop unused levels.} \\
    &\text{col_legend_ncol, col_legend_nrow} \\
    &\quad \text{The number of columns and rows in a legend guide.} \\
    &\text{col_legend_rev} \\
    &\quad \text{TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.} \\
    &\text{col_palette} \\
    &\quad \text{A character vector of hex codes (or names) or a scales::pal_*() function.} \\
    &\text{col_palette_na} \\
    &\quad \text{A hex code (or name) for the colour of NA values.} \\
    &\text{col_rescale} \\
    &\quad \text{For a continuous variable, a scales::rescale() function.} \\
    &\text{col_steps} \\
    &\quad \text{For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.} \\
    &\text{facet_axes} \\
    &\quad \text{Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_mode_*() may be needed.} \\
    &\text{facet_axis_labels} \\
    &\quad \text{Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".} \\
    &\text{facet_layout} \\
    &\quad \text{Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".} \\
    &\text{facet_ncol, facet_nrow} \\
    &\quad \text{The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".} \\
    &\text{facet_scales} \\
    &\quad \text{Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".} \\
    &\text{facet_space} \\
    &\quad \text{When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".}
\end{align*}\]
title               Title string.
subtitle             Subtitle string.
caption              Caption title string.
label_to_case        A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value
A ggplot object.

Examples
library(ggplot2)
library(dplyr)
library(palmerpenguins)

set_blanket()

penguins |>
  tidyr::drop_na(sex) |>
  group_by(sex, species) |>
  summarise(across(flipper_length_mm, \(x) mean(x, na.rm = TRUE))) |>
  gg_col(
    x = flipper_length_mm,
    y = species,
    col = sex,
    position = position_dodge(preserve = "single"),
    width = 0.75,
  )

---

**gg_contour**  
*Contour ggplot*

**Description**
Create a contour ggplot with a wrapper around `ggplot2::ggplot()` + `geom_contour()`.

**Usage**

```r
gg_contour(
  data = NULL,
  ...,
  stat = "contour",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
)```
x = NULL,
xmin = NULL,
xmax = NULL,
xend = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
Arguments

data
  A data frame or tibble.
...
stat
  A statistical transformation to use on the data. A snakecase character string of a
ggproto Stat subclass object minus the Stat prefix (e.g. "identity").
position
  A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
coord
  A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).
mode
  A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.
mode_orientation
  The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group,
subgroup, label, text, sample
  An unquoted aesthetic variable.
mapping
  A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks
  A scales::breaks_* function (e.g. scales::breaks_*)(), or a vector of breaks.
x_breaks_n, y_breaks_n, col_breaks_n
  A number of desired breaks for when breaks = NULL.
Padding to the limits with the `ggplot2::expansion()` function, or a vector of length 2 (e.g. `c(0, 0)`).

For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with `forcats::fct_expand`.

Label for the axis or legend title. Use `+ ggplot2::labs(... = NULL)` for no title.

A function that takes the breaks as inputs (e.g. `
(x) stringr::str_to_sentence(x)` or `scales::label_*()`), or a vector of labels. (Note this must be named for `facet_labels`).

The position of the axis (i.e. "left", "right", "bottom" or "top"). If using `y_position = "top"` with a *_mode_* theme, add `caption = ""` or `caption = "\n"`.

A secondary axis with `ggplot2::dup_axis()` or `ggplot2::sec_axis()`.

TRUE or FALSE of whether a symmetric scale.

For a continuous scale, a transformation object (e.g. `scales::transform_log10()`) or character string of this minus the transform_prefix (e.g. "log10").

For a discrete variable, FALSE or TRUE of whether to drop unused levels.

The number of columns and rows in a legend guide.

TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

A character vector of hex codes (or names) or a `scales::pal_*()` function.

A hex code (or name) for the colour of NA values.

For a continuous variable, a `scales::rescale()` function.

For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes `+ *_mode_*()` may be needed.

Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

Whether the layout is to be "wrap" or "grid"). If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
facet_scales  Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

facet_space  When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title  Title string.

subtitle  Subtitle string.

caption  Caption title string.

label_to_case  A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value  A ggplot object.

Examples

library(ggplot2)
library(dplyr)

set_blanket()

ggplot2::faithful |>
gg_contour(
  x = waiting,
  y = eruptions,
  z = density,
)

Description  Create a contour_filled ggplot with a wrapper around ggplot2::ggplot() + geom_contour_filled().

Usage  

gg_contour_filled(
  data = NULL,
  ...,  
  stat = "contour_filled",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
)
mode = NULL,
mode_orientation = NULL,
x = NULL,
xmin = NULL,
xmax = NULL,
xend = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
Arguments

data  A data frame or tibble.

... Other arguments passed to within a params list in layer().

stat A statistical transformation to use on the data. A snakecase character string of a
ggproto Stat subclass object minus the Stat prefix (e.g. "identity").

position A position adjustment. A snakecase character string of a gproto Position sub-
class object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a gproto Position subclass object (e.g. ggplot2::position_identity()).

coord A coordinate system. A coord_*() function that outputs a constructed gproto
Coord subclass object (e.g. ggplot2::coord_cartesian()).

mode A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates
side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.

mode_orientation The orientation of plot, which affects the theme components that are removed
from the mode. Either "x" or "y".

x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group,
subgroup, label, text, sample
An unquoted aesthetic variable.

mapping A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily
for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but
can also be used for delayed evaluation etc.

x_breaks, y_breaks, col_breaks
A scales::breaks_* function (e.g. scales::breaks_()), or a vector of
breaks.
A number of desired breaks for when breaks = NULL.

Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).
For a continuous variable, any values that the limits should encompass (e.g. 0).
For a discrete scale, manipulate the data instead with forcats::fct_expand.
Label for the axis or legend title. Use + ggplot2::labs(... = NULL) for no title.
A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x)
or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".
A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
TRUE or FALSE of whether a symmetric scale.
For a continuous scale, a transformation object (e.g. scales::transform_log10())
or character string of this minus the transform_ prefix (e.g. "log10").
For a discrete variable, FALSE or TRUE of whether to drop unused levels.
The number of columns and rows in a legend guide.
TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
A character vector of hex codes (or names) or a scales::pal_*() function.
A hex code (or name) for the colour of NA values.
For a continuous variable, a scales::rescale() function.
For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_mode_*() may be needed.
Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

Title string.

Subtitle string.

Caption title string.

A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

A ggplot object.

library(ggplot2)
library(dplyr)

set_blanket()

faithfuld |>
gg_contour_filled(
  x = waiting,
  y = eruptions,
  z = density,
  bins = 8,
)

Create a crossbar ggplot with a wrapper around ggplot2::ggplot() + geom_crossbar().
Usage

gg_crossbar(
  data = NULL,
  ..., 
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_expand_limits = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
  x_symmetric = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_breaks_n = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_label = NULL,
  y_labels = NULL,
  y_position = "left",
  y_sec_axis = ggplot2::waiver(),
  y_symmetric = NULL,
  y_transform = NULL,
  col_breaks = NULL,


Arguments

data       A data frame or tibble.
...         Other arguments passed to within a params list in layer().
stat       A statistical transformation to use on the data. A snakecase character string of a
ggproto Stat subclass object minus the Stat prefix (e.g. "identity").
position   A position adjustment. A snakecase character string of a ggproto Position sub-
class object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
coord      A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).
mode       A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.
mode_orientation
           The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group,
subgroup, label, text, sample
           An unquoted aesthetic variable.
mapping  
A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.

x_breaks, y_breaks, col_breaks
A scales::breaks_* function (e.g. scales::breaks_()), or a vector of breaks.

x_breaks_n, y_breaks_n, col_breaks_n
A number of desired breaks for when *breaks = NULL.

x_expand, y_expand
Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).

x_expand_limits, y_expand_limits, col_expand_limits
For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.

x_label, y_label, col_label
Label for the axis or legend title. Use ggplot2::labs(... = NULL) for no title.

x_labels, y_labels, col_labels, facet_labels
A function that takes the breaks as inputs (e.g. \( \text{stringr::str_to_sentence(x)} \) or scales::label_(), or a vector of labels. (Note this must be named for facet_labels).

x_position, y_position
The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a _mode_* theme, add caption = "" or caption = "\".

x_sec_axis, y_sec_axis
A secondary axis with ggplot2::sec_axis() or ggplot2::sec_axis().

x_symmetric, y_symmetric
TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform
For a continuous scale, a transformation object (e.g. scales::transform_log10()) or character string of this minus the transform_ prefix (e.g. "log10").

col_drop, facet_drop
For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow
The number of columns and rows in a legend guide.

col_legend_rev
TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

col_palette
A character vector of hex codes (or names) or a scales::pal_() function.

col_palette_na
A hex code (or name) for the colour of NA values.

col_rescale
For a continuous variable, a scales::rescale() function.

col_steps
For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

facet_axes
Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + _mode_() may be needed.
facet_axis_labels
Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout
Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

facet_ncol, facet_nrow
The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

facet_scales
Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

facet_space
When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title
Title string.

subtitle
Subtitle string.

caption
Caption title string.

label_to_case
A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value
A ggplot object.

Examples

library(ggplot2)
library(dplyr)

set_blanket()

data.frame(
  trt = factor(1, 1, 2, 2),
  resp = c(1, 5, 3, 4),
  group = factor(c(1, 2, 1, 2)),
  upper = c(1.1, 5.3, 3.3, 4.2),
  lower = c(0.8, 4.6, 2.4, 3.6)
) |> 
gg_crossbar(
  x = trt,
  y = resp,
  ymin = lower,
  ymax = upper,
  col = group,
  width = 0.5,
  x_label = "Treatment",
  y_label = "Response",
)
gg_density

Density ggplot

Description

Create a density ggplot with a wrapper around `ggplot2::ggplot()` + `geom_density()`.

Usage

```r
gg_density(
  data = NULL,
  ...,  
  stat = "density",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_expand_limits = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
  x_symmetric = NULL,
  x_transform = NULL,
  ```
Arguments

data A data frame or tibble.

... Other arguments passed to within a params list in layer().

stat A statistical transformation to use on the data. A snakercase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. "identity").

position A position adjustment. A snakercase character string of a ggproto Position subclass object minus the Position prefix (e.g. "identity"), or a position_*( ) function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
gg_density

coord A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. `ggplot2::coord_cartesian()`).

mode A ggplot2 theme (e.g. `light_mode_t()` or `dark_mode_r()`) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.

mode_orientation The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".

x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample
An unquoted aesthetic variable.

mapping A set of additional aesthetic mappings in `ggplot2::aes()`. Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.

x_breaks, y_breaks, col_breaks
A scales::breaks_* function (e.g. scales::breaks_*()) or a vector of breaks.

x_breaks_n, y_breaks_n, col_breaks_n
A number of desired breaks for when _breaks = NULL.

x_expand, y_expand Padding to the limits with the `ggplot2::expansion()` function, or a vector of length 2 (e.g. c(0, 0)).

x_expand_limits, y_expand_limits, col_expand_limits
For a continuous variable, any values that the limits should encompass (e.g. 0).
For a discrete scale, manipulate the data instead with forcats::fct_expand.

x_label, y_label, col_label
Label for the axis or legend title. Use + ggplot2::labs(... = NULL) for no title.

x_labels, y_labels, col_labels, facet_labels
A function that takes the breaks as inputs (e.g. \(x\) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).

x_position, y_position
The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".

x_sec_axis, y_sec_axis
A secondary axis with `ggplot2::dup_axis()` or `ggplot2::sec_axis()`.

x_symmetric, y_symmetric
TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform
For a continuous scale, a transformation object (e.g. scales::transform_log10()) or character string of this minus the transform_ prefix (e.g. "log10").

col_drop, facet_drop
For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow
The number of columns and rows in a legend guide.
### gg_density

**col_legend_rev**  TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

**col_palette**  A character vector of hex codes (or names) or a scales::pal_*() function.

**col_palette_na**  A hex code (or name) for the colour of NA values.

**col_rescale**  For a continuous variable, a scales::rescale() function.

**col_steps**  For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

**facet_axes**  Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + _mode_*() may be needed.

**facet_axis_labels**  Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

**facet_layout**  Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

**facet_ncol, facet_nrow**  The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

**facet_scales**  Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

**facet_space**  When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

**title**  Title string.

**subtitle**  Subtitle string.

**caption**  Caption title string.

**label_to_case**  A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

### Value

A ggplot object.

### Examples

```r
library(ggplot2)
library(dplyr)
library(palmerpenguins)

set_blanket()

penguins |>
  gg_density(
    x = flipper_length_mm,
    col = species,
  )
```

gg_density_2d

Description

Create a density_2d ggplot with a wrapper around ggplot2::ggplot() + geom_density_2d().

Usage

```r
gg_density_2d(
  data = NULL,
  ..., 
  stat = "density_2d",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_expand_limits = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
  x_symmetric = NULL,
  ...)
```
Arguments

**data**
A data frame or tibble.

**...**
Other arguments passed to within a `params` list in `layer()`.

**stat**
A statistical transformation to use on the data. A snakecase character string of a `ggproto` Stat subclass object minus the Stat prefix (e.g. "identity").

**position**
A position adjustment. A snakecase character string of a `ggproto` Position subclass object minus the Position prefix (e.g. "identity"), or a `position_*()`
function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).

coord
A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).

mode
A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.

mode_orientation
The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".

x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample
An unquoted aesthetic variable.

mapping
A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.

x_breaks, y_breaks, col_breaks
A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.

x_breaks_n, y_breaks_n, col_breaks_n
A number of desired breaks for when *_breaks = NULL.

x_expand, y_expand
Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).

x_expand_limits, y_expand_limits, col_expand_limits
For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.

x_label, y_label, col_label
Label for the axis or legend title. Use + ggplot2::labs(... = NULL) for no title.

x_labels, y_labels, col_labels, facet_labels
A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*(), or a vector of labels. (Note this must be named for facet_labels).

x_position, y_position
The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".

x_sec_axis, y_sec_axis
A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().

x_symmetric, y_symmetric
TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform
For a continuous scale, a transformation object (e.g. scales::transform_log10()) or character string of this minus the transform_ prefix (e.g. "log10").

col_drop, facet_drop
For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol, col_legend_nrow
The number of columns and rows in a legend guide.

col_legend_rev
TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

col_palette
A character vector of hex codes (or names) or a scales::pal_*() function.

col_palette_na
A hex code (or name) for the colour of NA values.

col_rescale
For a continuous variable, a scales::rescale() function.

col_steps
For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

facet_axes
Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_mode_*( ) may be needed.

facet_axis_labels
Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout
Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

facet_ncol, facet_nrow
The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

facet_scales
Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

facet_space
When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title
Title string.

subtitle
Subtitle string.

caption
Caption title string.

label_to_case
A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value
A ggplot object.

Examples
library(ggplot2)
library(dplyr)
library(palmerpenguins)

set_blanket()

faithful |>
```
gg_density_2d_filled
  data = NULL,
  ...
  stat = "density_2d_filled",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_expand_limits = NULL,
```

**Description**

Create a density_2d_filled ggplot with a wrapper around `ggplot2::ggplot()` + `geom_density_2d_filled()`.

**Usage**

```
gg_density_2d_filled()
  x = waiting,
  y = eruptions,
  bins = 8,
  contour = TRUE,
)```
Arguments

data A data frame or tibble.
... Other arguments passed to within a params list in layer().

**stat**  
A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. "identity").

**position**  
A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. "identity"), or a position_*( ) function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).

**coord**  
A coordinate system. A coord_*( ) function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).

**mode**  
A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.

**mode_orientation**  
The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".

An unquoted aesthetic variable.

**mapping**  
A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.

**x_breaks, y_breaks, col_breaks**  
A scales::breaks_ * function (e.g. scales::breaks_ *()), or a vector of breaks.

**x_breaks_n, y_breaks_n, col_breaks_n**  
A number of desired breaks for when *_breaks = NULL.

**x_expand, y_expand**  
Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).

**x_expand_limits, y_expand_limits, col_expand_limits**  
For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.

**x_label, y_label, col_label**  
Label for the axis or legend title. Use + ggplot2::labs(... = NULL) for no title.

**x_labels, y_labels, col_labels, facet_labels**  
A function that takes the breaks as inputs (e.g. \(\backslash (x) \) stringr::str_to_sentence(x) or scales::label_ *()), or a vector of labels. (Note this must be named for facet_labels).

**x_position, y_position**  
The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".

**x_sec_axis, y_sec_axis**  
A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().

**x_symmetric, y_symmetric**  
TRUE or FALSE of whether a symmetric scale.
x_transform, y_transform, col_transform
For a continuous scale, a transformation object (e.g. `scales::transform_log10()`) or character string of this minus the transform_prefix (e.g. "log10").

col_drop, facet_drop
For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow
The number of columns and rows in a legend guide.

col_legend_rev TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

col_palette A character vector of hex codes (or names) or a `scales::pal_*()` function.

col_palette_na A hex code (or name) for the colour of NA values.

col_rescale For a continuous variable, a `scales::rescale()` function.

col_steps For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

facet_axes Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_mode_*( ) may be needed.

facet_axis_labels Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

facet_ncol, facet_nrow The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

facet_scales Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

facet_space When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title Title string.

subtitle Subtitle string.

caption Caption title string.

label_to_case A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to `snakecase::to_sentence_case`.

Value
A ggplot object.
Examples

```r
library(ggplot2)
library(dplyr)
library(palmerpenguins)

set_blanket()

faithful |>
  gg_density_2d_filled(
    x = waiting,
    y = eruptions,
    bins = 8,
    contour = TRUE,
  )
```

---

**gg_errorbar**  
**Errorbar ggplot**

Description

Create a errorbar ggplot with a wrapper around `ggplot2::ggplot()` + `geom_errorbar()`.

Usage

```r
gg_errorbar(
  data = NULL,
  ...,  
  stat = "identity",  
  position = "identity",  
  coord = ggplot2::coord_cartesian(clip = "off"),  
  mode = NULL,  
  mode_orientation = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,
)```
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,

caption = NULL,
label_to_case = snakecase::to_sentence_case
)

Arguments

data  A data frame or tibble.
... Other arguments passed to within a params list in layer().
stat  A statistical transformation to use on the data. A snakecase character string of a
ggproto Stat subclass object minus the Stat prefix (e.g. "identity").
position A position adjustment. A snakecase character string of a ggproto Position sub-
class object minus the Position prefix (e.g. "identity"), or a position_*( )
function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
coord  A coordinate system. A coord_*( ) function that outputs a constructed ggproto
Coord subclass object (e.g. ggplot2::coord_cartesian()).
mode  A ggplot2 theme (e.g. light_mode_t() or dark_mode_r() ) that anticipates
side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.
mode_orientation
  The orientation of plot, which affects the theme components that are removed
from the mode. Either "x" or "y".
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group,
subgroup, label, text, sample
  An unquoted aesthetic variable.
mapping A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily
for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but
  can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks
  A scales::breaks_* function (e.g. scales::breaks_*( ) ), or a vector of
  breaks.
x_breaks_n, y_breaks_n, col_breaks_n
  A number of desired breaks for when _breaks = NULL.
x_expand, y_expand
  Padding to the limits with the ggplot2::expansion() function, or a vector of
  length 2 (e.g. c(0, 0)).
x_expand_limits, y_expand_limits, col_expand_limits
  For a continuous variable, any values that the limits should encompass (e.g. 0).
  For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_label, col_label
  Label for the axis or legend title. Use + ggplot2::labs(... = NULL) for no
  title.
x_labels, y_labels, col_labels, facet_labels
  A function that takes the breaks as inputs (e.g. \( (x) \) stringr::str_to_sentence(x)
  or scales::label_*() ), or a vector of labels. (Note this must be named for
  facet_labels).
The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".

A secondary axis with \texttt{ggplot2::dup_axis()} or \texttt{ggplot2::sec_axis()}.

TRUE or FALSE of whether a symmetric scale.

For a continuous scale, a transformation object (e.g. \texttt{scales::transform_log10()}) or character string of this minus the \texttt{transform_} prefix (e.g. "log10").

For a discrete variable, FALSE or TRUE of whether to drop unused levels.

The number of columns and rows in a legend guide.

TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

A character vector of hex codes (or names) or a \texttt{scales::pal_*()} function.

A hex code (or name) for the colour of NA values.

For a continuous variable, a \texttt{scales::rescale()} function.

For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_mode_* may be needed.

Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title
subtitle
caption
label_to_case
Value

A ggplot object.

Examples

```r
library(ggplot2)
library(dplyr)
library(palmerpenguins)

set_blanket()

data.frame(
  trt = factor(c(1, 1, 2, 2)),
  resp = c(1, 5, 3, 4),
  group = factor(c(1, 2, 1, 2)),
  upper = c(1.1, 5.3, 3.3, 4.2),
  lower = c(0.8, 4.6, 2.4, 3.6)
) |>
  gg_errorbar(
    x = trt,
    ymin = lower,
    ymax = upper,
    col = group,
    width = 0.1,
    x_label = "Treatment",
    y_label = "Response",
  )
```

Description

Create a freqpoly ggplot with a wrapper around `ggplot2::ggplot()` + `geom_freqpoly()`.

Usage

```r
 gg_freqpoly(
   data = NULL,
   ..., 
   stat = "bin",
   position = "identity",
   coord = ggplot2::coord_cartesian(clip = "off"),
   mode = NULL,
   mode_orientation = NULL,
   x = NULL,
   xmin = NULL,
   xmax = NULL,
   ```
xend = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_to_case = snakecase::to_sentence_case
)

Arguments

data | A data frame or tibble.
... | Other arguments passed to within a params list in layer().
stat | A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. "identity").
position | A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
coord | A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).
mode | A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.
mode_orientation | The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample | An unquoted aesthetic variable.
mapping | A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks | A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y_breaks_n, col_breaks_n | A number of desired breaks for when *_breaks = NULL.
x_expand, y_expand | Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).
For a continuous variable, any values that the limits should encompass (e.g. 0).
For a discrete scale, manipulate the data instead with forcats::fct_expand.

Label for the axis or legend title. Use + ggplot2::labs(...) = NULL for no
title.

A function that takes the breaks as inputs (e.g. \(x\) stringr::str_to_sentence(x)
or scales::label_*()), or a vector of labels. (Note this must be named for
colour guide).

The position of the axis (i.e. "left", "right", "bottom" or "top"). If using
y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".

A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().

TRUE or FALSE of whether a symmetric scale.

For a continuous scale, a transformation object (e.g. scales::transform_log10())
or character string of this minus the transform_ prefix (e.g. "log10").

For a discrete variable, FALSE or TRUE of whether to drop unused levels.

The number of columns and rows in a legend guide.

TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to
FALSE.

A character vector of hex codes (or names) or a scales::pal_*() function.

A hex code (or name) for the colour of NA values.

For a continuous variable, a scales::rescale() function.

Whether to add interior axes and ticks with "margins", "all", "all_x", or
"all_y". Sometimes + *_mode_*() may be needed.

Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet
and facet2 arguments are provided, defaults to "grid".

The number of columns and rows of facet panels. Only applies to a facet layout
of "wrap".

Whether facet scales should be “fixed” across facets, “free” in both direc-
tions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to
"fixed".
When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title Title string.
subtitle Subtitle string.
caption Caption title string.
label_to_case A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

library(ggplot2)
library(dplyr)
library(palmerpenguins)
set_blanket()
penguins |> gg_freqpoly(
  x = flipper_length_mm,
  col = sex,
)

---

### gg_function

**Function ggplot**

Create a function ggplot with a wrapper around `ggplot2::ggplot()` + `geom_function()`.

**Usage**

```r
gg_function(
  data = NULL,
  ..., 
  stat = "function",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
```
gg_function

xmin = NULL,
xmax = NULL,
xend = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_to_case = snakecase::to_sentence_case
)

Arguments

data      A data frame or tibble.
...       Other arguments passed to within a params list in layer().
stat      A statistical transformation to use on the data. A snakecase character string of a
ggproto Stat subclass object minus the Stat prefix (e.g. "identity").
position  A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
coord     A coordinate system. A coord_*() function that outputs a constructed ggproto
          Coord subclass object (e.g. ggplot2::coord_cartesian()).
mode      A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates
          side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.
mode_orientation
          The orientation of plot, which affects the theme components that are removed
          from the mode. Either "x" or "y".
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group,
subgroup, label, text, sample
          An unquoted aesthetic variable.
mapping   A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily
          for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but
          can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks
          A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of
          breaks.
x_breaks_n, y_breaks_n, col_breaks_n
          A number of desired breaks for when *_breaks = NULL.
x_expand, y_expand
Padding to the limits with the `ggplot2::expansion()` function, or a vector of length 2 (e.g. c(0, 0)).

x_expand_limits, y_expand_limits, col_expand_limits
For a continuous variable, any values that the limits should encompass (e.g. 0).
For a discrete scale, manipulate the data instead with `forcats::fct_expand`.

x_label, y_label, col_label
Label for the axis or legend title. Use `+ ggplot2::labs(... = NULL)` for no title.

x_labels, y_labels, col_labels, facet_labels
A function that takes the breaks as inputs (e.g. \(x\) `stringr::str_to_sentence(x)`
or `scales::label_*()`), or a vector of labels. (Note this must be named for `facet_labels`).

x_position, y_position
The position of the axis (i.e. "left", "right", "bottom" or "top"). If using `y_position = "top"` with a *_mode_* theme, add `caption = ""` or `caption = "\n"`.

x_sec_axis, y_sec_axis
A secondary axis with `ggplot2::dup_axis()` or `ggplot2::sec_axis()`.

x_symmetric, y_symmetric
TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform
For a continuous scale, a transformation object (e.g. `scales::transform_log10()`)
or character string of this minus the transform_ prefix (e.g. "log10").

col_drop, facet_drop
For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow
The number of columns and rows in a legend guide.

col_legend_rev
TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

col_palette
A character vector of hex codes (or names) or a `scales::pal_*()` function.

col_palette_na
A hex code (or name) for the colour of NA values.

col_rescale
For a continuous variable, a `scales::rescale()` function.

col_steps
For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

facet_axes
Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes `*_mode_*()` may be needed.

facet_axis_labels
Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout
Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

facet_ncol, facet_nrow
The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
Whether facet scales should be “fixed” across facets, “free” in both directions, or free in just one direction (i.e. “free_x” or “free_y”). Defaults to “fixed”.

When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be “fixed” across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

Title string.

Subtitle string.

Caption title string.

A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakename::to_sentence_case.

A ggplot object.

library(ggplot2)
library(dplyr)

gg_function(
  fun = \(x\) dnorm(x, mean = 0, sd = 5),
  x_expand_limits = qnorm(p = c(0.005, 0.995), mean = 0, sd = 5),
  y_expand_limits = 0,
)

Description

Create a hex ggplot with a wrapper around ggplot2::ggplot() + geom_hex().

Usage

gg_hex(
  data = NULL,
  ...,
  stat = "binhex",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
)
mode_orientation = NULL,
x = NULL,
xmin = NULL,
xmax = NULL,
xend = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_to_case = snakecase::to_sentence_case
)

Arguments

data

A data frame or tibble.

... Other arguments passed to within a params list in layer().

stat

A statistical transformation to use on the data. A snakecase character string of a
ggproto Stat subclass object minus the Stat prefix (e.g. "identity").

position

A position adjustment. A snakecase character string of a ggproto Position sub-
class object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).

coord

A coordinate system. A coord_*() function that outputs a constructed ggproto
Coord subclass object (e.g. ggplot2::coord_cartesian()).

mode

A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates
side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.

mode_orientation

The orientation of plot, which affects the theme components that are removed
from the mode. Either "x" or "y".

x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group,
subgroup, label, text, sample

An unquoted aesthetic variable.

mapping

A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily
for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but
can also be used for delayed evaluation etc.

x_breaks, y_breaks, col_breaks

A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of
breaks.

x_breaks_n, y_breaks_n, col_breaks_n

A number of desired breaks for when _breaks = NULL.
Padding to the limits with the `ggplot2::expansion()` function, or a vector of length 2 (e.g. c(0, 0)).

For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with `forcats::fct_expand`.

Label for the axis or legend title. Use `+ ggplot2::labs(... = NULL)` for no title.

A function that takes the breaks as inputs (e.g. `\(x\)` `stringr::str_to_sentence(x)` or `scales::label_*()`), or a vector of labels. (Note this must be named for `facet_labels`).

The position of the axis (i.e. "left", "right", "bottom" or "top"). If using `y_position = "top"` with a "*mode_*" theme, add `caption = ""` or `caption = "\n"`.

A secondary axis with `ggplot2::dup_axis()` or `ggplot2::sec_axis()`.

TRUE or FALSE of whether a symmetric scale.

For a continuous scale, a transformation object (e.g. `scales::transform_log10()`)
or character string of this minus the `transform_` prefix (e.g. "log10").

For a discrete variable, FALSE or TRUE of whether to drop unused levels.

The number of columns and rows in a legend guide.

TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

A character vector of hex codes (or names) or a `scales::pal_*()` function.

A hex code (or name) for the colour of NA values.

For a continuous variable, a `scales::rescale()` function.

For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes `+ *_mode_*()` may be needed.

Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or `facet2`) argument is provided, then defaults to "wrap". If NULL and both facet and `facet2` arguments are provided, defaults to "grid".

The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

Title string.

Subtitle string.

Caption title string.

A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

A ggplot object.

library(ggplot2)
library(dplyr)
library(palmerpenguins)

set_blanket()
diamonds |>
gg_hex(
    x = carat,
    y = price,
)

---

**gg_histogram**  
*Histogram ggplot*

Create a histogram ggplot with a wrapper around `ggplot2::ggplot() + geom_histogram()`.

**Usage**

```r
gg_histogram(
  data = NULL,
  ...,  
  stat = "bin",
  position = "stack",
  coord = ggplot2::coord_cartesian(clip = "off"),
```
mode = NULL,
mode_orientation = NULL,
x = NULL,
xmin = NULL,
xmax = NULL,
xend = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
Arguments

data A data frame or tibble.

... Other arguments passed to within a params list in layer().

stat A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. "identity").

position A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).

coord A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).

mode A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.

mode_orientation The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".

x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample An unquoted aesthetic variable.

mapping A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.

x_breaks, y_breaks, col_breaks A scales::breaks_* function (e.g. scales::breaks_()), or a vector of breaks.
x_breaks_n, y_breaks_n, col_breaks_n
   A number of desired breaks for when *_breaks = NULL.

x_expand, y_expand
   Padding to the limits with the ggplot2::expansion() function, or a vector of
   length 2 (e.g. c(0, 0)).

x-expand_limits, y-expand_limits, col-expand_limits
   For a continuous variable, any values that the limits should encompass (e.g. 0).
   For a discrete scale, manipulate the data instead with forcats::fct_expand.

x_label, y_label, col_label
   Label for the axis or legend title. Use + ggplot2::labs(... = NULL) for no
   title.

x_labels, y_labels, col_labels, facet_labels
   A function that takes the breaks as inputs (e.g. \(x\) stringr::str_to_sentence(x)
   or scales::label_*()), or a vector of labels. (Note this must be named for
   facet_labels).

x_position, y_position
   The position of the axis (i.e. "left", "right", "bottom" or "top"). If using
   y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".

x_sec_axis, y_sec_axis
   A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().

x_symmetric, y_symmetric
   TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform
   For a continuous scale, a transformation object (e.g. scales::transform_log10())
   or character string of this minus the transform_ prefix (e.g. "log10").

col_drop, facet_drop
   For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow
   The number of columns and rows in a legend guide.

col_legend_rev
   TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to
   FALSE.

col_palette
   A character vector of hex codes (or names) or a scales::pal_*() function.

col_palette_na
   A hex code (or name) for the colour of NA values.

col_rescale
   For a continuous variable, a scales::rescale() function.

col_steps
   For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults
to FALSE.

facet_axes
   Whether to add interior axes and ticks with "margins", "all", "all_x", or
   "all_y". Sometimes + *_mode_*() may be needed.

facet_axis_labels
   Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout
   Whether the layout is to be "wrap" or "grid"). If NULL and a single facet (or
   facet2) argument is provided, then defaults to "wrap". If NULL and both facet
   and facet2 arguments are provided, defaults to "grid".
facet_ncol, facet_nrow
The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

facet_scales
Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

facet_space
When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title
Title string.
subtitle
Subtitle string.
caption
Caption title string.
label_to_case
A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value
A ggplot object.

Examples
library(ggplot2)
library(dplyr)
library(palmerpenguins)
set_blanket()
penguins |> gg_histogram(
  x = flipper_length_mm,
  col = sex,
  bins = 50,
)

---

**gg_jitter**

*Jitter ggplot*

**Description**
Create a jitter ggplot with a wrapper around `ggplot2::ggplot() + geom_jitter()`.
Usage

gg_jitter(
  data = NULL,
  ..., 
  stat = "identity",
  position = "jitter",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_expand_limits = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
  x_symmetric = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_breaks_n = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_label = NULL,
  y_labels = NULL,
  y_position = "left",
  y_sec_axis = ggplot2::waiver(),
  y_symmetric = NULL,
  y_transform = NULL,
  col_breaks = NULL,


Arguments

data  A data frame or tibble.
...
stat  A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. "identity").
position  A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
coord  A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).
mode  A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.
mode_orientation  The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample  An unquoted aesthetic variable.
mapping

A set of additional aesthetic mappings in `ggplot2::aes()`. Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.

\texttt{x_breaks, y_breaks, col_breaks}

A `scales::breaks_*` function (e.g. `scales::breaks_*()`), or a vector of breaks.

\texttt{x_breaks_n, y_breaks_n, col_breaks_n}

A number of desired breaks for when \_breaks = NULL.

\texttt{x_expand, y_expand}

Padding to the limits with the `ggplot2::expansion()` function, or a vector of length 2 (e.g. \texttt{c(0, 0)}).

\texttt{x_expand_limits, y_expand_limits, col_expand_limits}

For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with `forcats::fct_expand`.

\texttt{x_label, y_label, col_label}

Label for the axis or legend title. Use \texttt{+ ggplot2::labs(... = NULL)} for no title.

\texttt{x_labels, y_labels, col_labels, facet_labels}

A function that takes the breaks as inputs (e.g. \texttt{\(\text{\textbackslash n}(\text{x})\) stringr::str_to_sentence(x)} or `scales::label_*()`), or a vector of labels. (Note this must be named for `facet_labels`).

\texttt{x_position, y_position}

The position of the axis (i.e. "left", "right", "bottom" or "top"). If using \texttt{y_position = "top"} with a \_*mode_* theme, add \texttt{caption = ""} or \texttt{caption = \"\n\"}.

\texttt{x_sec_axis, y_sec_axis}

A secondary axis with `ggplot2::dup_axis()` or `ggplot2::sec_axis()`.

\texttt{x_symmetric, y_symmetric}

TRUE or FALSE of whether a symmetric scale.

\texttt{x_transform, y_transform, col_transform}

For a continuous scale, a transformation object (e.g. `scales::transform_log10()`) or character string of this minus the \texttt{transform_-} prefix (e.g. "log10").

\texttt{col_drop, facet_drop}

For a discrete variable, FALSE or TRUE of whether to drop unused levels.

\texttt{col_legend_ncol, col_legend_nrow}

The number of columns and rows in a legend guide.

\texttt{col_legend_rev}

TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

\texttt{col_palette}

A character vector of hex codes (or names) or a `scales::pal_*()` function.

\texttt{col_palette_na}

A hex code (or name) for the colour of NA values.

\texttt{col_rescale}

For a continuous variable, a `scales::rescale()` function.

\texttt{col_steps}

For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

\texttt{facet_axes}

Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes \texttt{+ \_*mode_*()} may be needed.
facet_axis_labels
  Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout
  Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or
  facet2) argument is provided, then defaults to "wrap". If NULL and both facet
  and facet2 arguments are provided, defaults to "grid".

facet_ncol, facet_nrow
  The number of columns and rows of facet panels. Only applies to a facet layout
  of "wrap".

facet_scales
  Whether facet scales should be "fixed" across facets, "free" in both direc-
  tions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to
  "fixed".

facet_space
  When the facet layout is "grid" and facet scales are not "fixed", whether
  facet space should be "fixed" across facets, "free" to be proportional in both
  directions, or free to be proportional in just one direction (i.e. "free_x" or
  "free_y"). Defaults to "fixed".

title
  Title string.
subtitle
  Subtitle string.
caption
  Caption title string.
label_to_case
  A function to format the default x_label, y_label and col_label of unlabelled
  variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

library(ggplot2)
library(dplyr)
library(palmerpenguins)

set_blanket()

set.seed(123)

penguins |>  
  gg_jitter(  
    x = species,
    y = body_mass_g,
    col = flipper_length_mm,
    position = position_jitter(height = 0),
    y-expand_limits = 0,
    col_steps = TRUE,
  )
**gg_label**

**Label ggplot**

**Description**

Create a label ggplot with a wrapper around `ggplot2::ggplot()` + `geom_label()`.

**Usage**

```r
gg_label(
  data = NULL,
  ...
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_expand_limits = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
  x_symmetric = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_breaks_n = NULL,
```
Arguments

data
A data frame or tibble.

... Other arguments passed to within a params list in layer().

stat A statistical transformation to use on the data. A snakecase character string of a
ggproto Stat subclass object minus the Stat prefix (e.g. "identity").

position A position adjustment. A snakecase character string of a ggproto Position sub-
class object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).

coord A coordinate system. A coord_*() function that outputs a constructed ggproto
Coord subclass object (e.g. ggplot2::coord_cartesian()).
mode A ggplot2 theme (e.g. `light_mode_t()` or `dark_mode_r()`) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the `mode_orientation`.

mode_orientation
The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".

x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample
An unquoted aesthetic variable.

mapping A set of additional aesthetic mappings in `ggplot2::aes()`. Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.

x_breaks, y_breaks, col_breaks
A `scales::breaks_*` function (e.g. `scales::breaks_*()`), or a vector of breaks.

x_breaks_n, y_breaks_n, col_breaks_n
A number of desired breaks for when `_breaks = NULL`.

x_expand, y_expand
Padding to the limits with the `ggplot2::expansion()` function, or a vector of length 2 (e.g. `c(0, 0)`).

x_expand_limits, y_expand_limits, col_expand_limits
For a continuous variable, any values that the limits should encompass (e.g. `0`). For a discrete scale, manipulate the data instead with `forcats::fct_expand`.

x_label, y_label, col_label
Label for the axis or legend title. Use `+ ggplot2::labs(... = NULL)` for no title.

x_labels, y_labels, col_labels, facet_labels
A function that takes the breaks as inputs (e.g. `\(x\) stringr::str_to_sentence(x)` or `scales::label_*()`), or a vector of labels. (Note this must be named for `facet_labels`).

x_position, y_position
The position of the axis (i.e. "left", "right", "bottom" or "top"). If using `y_position = "top"` with a *_mode_* theme, add `caption = ""` or `caption = "\n"`.

x_sec_axis, y_sec_axis
A secondary axis with `ggplot2::dup_axis()` or `ggplot2::sec_axis()`.

x_symmetric, y_symmetric
TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform
For a continuous scale, a transformation object (e.g. `scales::transform_log10()`) or character string of this minus the `transform_` prefix (e.g. "log10").

col_drop, facet_drop
For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow
The number of columns and rows in a legend guide.

col_legend_rev TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
col_palette  A character vector of hex codes (or names) or a scales::pal_*() function.
col_palette_na A hex code (or name) for the colour of NA values.
col_rescale  For a continuous variable, a scales::rescale() function.
col_steps  For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
facet_axes  Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + _mode_*() may be needed.
facet_axis_labels  Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_layout  Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
facet_ncol, facet_nrow  The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
facet_scales  Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
facet_space  When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title  Title string.
subtitle  Subtitle string.
caption  Caption title string.
label_to_case  A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value
A ggplot object.

Examples
library(ggplot2)
library(dplyr)

set_blanket()

bind_rows(
  mtcars |> slice_min(order_by = mpg),
  mtcars |> slice_max(order_by = mpg)
) |> tibble::rownames_to_column("model") |> gg_label(
  x = model,
gg_line

```r
y = mpg,
col = mpg,
label = model,
y_expand_limits = 0,
y_label = "Miles per gallon",
col_palette = c(orange, "white", teal),
```

---

**gg_line**

*Line ggplot*

**Description**

Create a line ggplot with a wrapper around `ggplot2::ggplot()` + `geom_line()`.

**Usage**

```r
gg_line(
  data = NULL,
  ...
)
```

parameters:

- `data`: data frame to use.
- `...`: additional arguments passed to `ggplot2::ggplot()`.
- `stat`: statistical transformation to use (default: "identity").
- `position`: position adjustment to use (default: "identity").
- `coord`: coordinate system to use (default: `ggplot2::coord_cartesian(clip = "off")`).
- `mode`: Mode of the object (default: NULL).
- `mode_orientation`: Orientation of the object (default: NULL).
- `x`: x values.
- `xmin`: minimum x value.
- `xmax`: maximum x value.
- `xend`: x end value.
- `y`: y values.
- `ymin`: minimum y value.
- `ymax`: maximum y value.
- `yend`: y end value.
- `z`: z values.
- `col`: color.
- `facet`: facet.
- `facet2`: extra facet.
- `group`: group.
- `subgroup`: subgroup.
- `label`: label.
- `text`: text.
- `sample`: sample.
- `mapping`: mapping.
- `x_breaks`: x breaks.
- `x_breaks_n`: number of breaks.
- `x_expand`: x expand.
- `x_expand_limits`: x expand limits.
- `col_palette`: color palette.

---
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_to_case = snakecase::to_sentence_case
)

Arguments

data A data frame or tibble.
... Other arguments passed to within a params list in layer().

**stat**
A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. "identity").

**position**
A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).

**coord**
A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).

**mode**
A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.

**mode_orientation**
The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".

An unquoted aesthetic variable.

**mapping**
A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.

**x_breaks**, **y_breaks**, **col_breaks**
A scales::breaks_* function (e.g. scales::breaks_*)(), or a vector of breaks.

**x_breaks_n**, **y_breaks_n**, **col_breaks_n**
A number of desired breaks for when *_breaks = NULL.

**x_expand**, **y_expand**
Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).

**x_expand_limits**, **y_expand_limits**, **col_expand_limits**
For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.

**x_label**, **y_label**, **col_label**
Label for the axis or legend title. Use + ggplot2::labs(... = NULL) for no title.

**x_labels**, **y_labels**, **col_labels**, **facet_labels**
A function that takes the breaks as inputs (e.g. \(\text{stringr::str_to_sentence(x)}\) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).

**x_position**, **y_position**
The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".

**x_sec_axis**, **y_sec_axis**
A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().

**x_symmetric**, **y_symmetric**
TRUE or FALSE of whether a symmetric scale.
x_transform, y_transform, col_transform
For a continuous scale, a transformation object (e.g. `scales::transform_log10()`)
or character string of this minus the transform_ prefix (e.g. "log10").

col_drop, facet_drop
For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow
The number of columns and rows in a legend guide.

col_legend_rev
TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

col_palette
A character vector of hex codes (or names) or a `scales::pal_*()` function.

col_palette_na
A hex code (or name) for the colour of NA values.

col_rescale
For a continuous variable, a `scales::rescale()` function.

col_steps
For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

facet_axes
Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_mode_*( ) may be needed.

facet_axis_labels
Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout
Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

facet_ncol, facet_nrow
The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

facet_scales
Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

facet_space
When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title
Title string.

subtitle
Subtitle string.

caption
Caption title string.

label_to_case
A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to `snakecase::to_sentence_case`.

Value
A ggplot object.
Examples

library(ggplot2)
library(dplyr)

set_blanket()

economics |>
gg_line(
  x = date,
  y = unemploy,
  y_expand_limits = 0,
  y_label = "Unemployment",
)

---

gg_linerange  Linerange ggplot

Description

Create a linerange ggplot with a wrapper around ggplot2::ggplot() + geom_linerange().

Usage

gg_linerange(
  data = NULL,
  ..., 
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_to_case = snakecase::to_sentence_case
)

Arguments

data A data frame or tibble.
... Other arguments passed to within a params list in layer().
stat A statistical transformation to use on the data. A snakecase character string of a
ggproto Stat subclass object minus the Stat prefix (e.g. "identity").
position A position adjustment. A snakecase character string of a ggproto Position sub-
class object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
coord A coordinate system. A coord_*() function that outputs a constructed ggproto
Coord subclass object (e.g. ggplot2::coord_cartesian()).
mode A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates
side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.
mode_orientation The orientation of plot, which affects the theme components that are removed
from the mode. Either "x" or "y".
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group,
subgroup, label, text, sample
An unquoted aesthetic variable.
mapping A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily
for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but
can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks
A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of
breaks.
x_breaks_n, y_breaks_n, col_breaks_n
A number of desired breaks for when *_breaks = NULL.
x_expand, y_expand
Padding to the limits with the ggplot2::expansion() function, or a vector of
length 2 (e.g. c(0, 0)).
x_expand_limits, y_expand_limits, col_expand_limits
For a continuous variable, any values that the limits should encompass (e.g. 0).
For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_label, col_label
Label for the axis or legend title. Use + ggplot2::labs(... = NULL) for no
title.
x_labels, y_labels, col_labels, facet_labels
A function that takes the breaks as inputs (e.g. \(\text{\texttt{x}}\) stringr::str_to_sentence(x)
or scales::label_*()), or a vector of labels. (Note this must be named for
facet_labels).
x_position, y_position
The position of the axis (i.e. "left", "right", "bottom" or "top"). If using
y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".

x_sec_axis, y_sec_axis
A secondary axis with `ggplot2::dup_axis()` or `ggplot2::sec_axis()`.

x_symmetric, y_symmetric
TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform
For a continuous scale, a transformation object (e.g. `scales::transform_Log10()`)
or character string of this minus the transform_ prefix (e.g. "log10").

col_drop, facet_drop
For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow
The number of columns and rows in a legend guide.

col_legend_rev
TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

col_palette
A character vector of hex codes (or names) or a `scales::pal_*()` function.

col_palette_na
A hex code (or name) for the colour of NA values.

col_rescale
For a continuous variable, a `scales::rescale()` function.

col_steps
For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

facet_axes
Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_mode_* may be needed.

facet_axis_labels
Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout
Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

facet_ncol, facet_nrow
The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

facet_scales
Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

facet_space
When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title
Title string.

subtitle
Subtitle string.

caption
Caption title string.

label_to_case
A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to `snakecase::to_sentence_case`. 

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Value

A ggplot object.

Examples

```r
library(ggplot2)
library(dplyr)

set_blanket()

data.frame(
  trt = factor(c(1, 1, 2, 2)),
  resp = c(1, 5, 3, 4),
  group = factor(c(1, 2, 1, 2)),
  upper = c(1.1, 5.3, 3.3, 4.2),
  lower = c(0.8, 4.6, 2.4, 3.6)
) |> 
gg_linerange(
  x = trt,
  ymin = lower,
  ymax = upper,
  col = group,
  position = position_dodge(width = 0.2),
  x_label = "Treatment",
  y_label = "Response",
)
```

Description

Create a path ggplot with a wrapper around `ggplot2::ggplot()` + `geom_path()`.

Usage

```r
gg_path(
  data = NULL,
  ..., stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  ```
xend = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_to_case = snakecase::to_sentence_case
)

Arguments

data A data frame or tibble.

... Other arguments passed to within a params list in layer().

stat A statistical transformation to use on the data. A snakecase character string of a
ggproto Stat subclass object minus the Stat prefix (e.g. "identity").

position A position adjustment. A snakecase character string of a gproto Position sub-
class object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a gproto Position subclass object (e.g. ggplot2::position_identity()).

coord A coordinate system. A coord_*() function that outputs a constructed gproto
Coord subclass object (e.g. ggplot2::coord_cartesian()).

mode A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates
side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.

mode_orientation

The orientation of plot, which affects the theme components that are removed
from the mode. Either "x" or "y".

x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group,
subgroup, label, text, sample

An unquoted aesthetic variable.

mapping A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily
for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but
can also be used for delayed evaluation etc.

x_breaks, y_breaks, col_breaks

A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of
breaks.

x_breaks_n, y_breaks_n, col_breaks_n

A number of desired breaks for when *_breaks = NULL.

x_expand, y_expand

Padding to the limits with the ggplot2::expansion() function, or a vector of
length 2 (e.g. c(0, 0)).
x_expand_limits, y_expand_limits, col_expand_limits
For a continuous variable, any values that the limits should encompass (e.g. 0).
For a discrete scale, manipulate the data instead with forcats::fct_expand.

x_label, y_label, col_label
Label for the axis or legend title. Use + ggplot2::labs(...) = NULL for no
title.

x_labels, y_labels, col_labels, facet_labels
A function that takes the breaks as inputs (e.g. \( \backslash (x) \) stringr::str_to_sentence(x)
or scales::label_*()), or a vector of labels. (Note this must be named for
facet_labels).

x_position, y_position
The position of the axis (i.e. "left", "right", "bottom" or "top"). If using
y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".

x_sec_axis, y_sec_axis
A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().

x_symmetric, y_symmetric
TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform
For a continuous scale, a transformation object (e.g. scales::transform_log10())
or character string of this minus the transform_ prefix (e.g. "log10").

col_drop, facet_drop
For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow
The number of columns and rows in a legend guide.

col_legend_rev TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to
FALSE.

col_palette A character vector of hex codes (or names) or a scales::pal_*() function.
col_palette_na A hex code (or name) for the colour of NA values.
col_rescale For a continuous variable, a scales::rescale() function.
col_steps For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to
FALSE.

facet_axes Whether to add interior axes and ticks with "margins", "all", "all_x", or
"all_y". Sometimes + *_mode_*() may be needed.

facet_axis_labels
Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet
and facet2 arguments are provided, defaults to "grid".

facet_ncol, facet_nrow
The number of columns and rows of facet panels. Only applies to a facet layout
of "wrap".

facet_scales Whether facet scales should be “fixed” across facets, “free” in both direc-
tions, or free in just one direction (i.e. “free_x” or “free_y”). Defaults to
“fixed”.
facet_space When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title Title string.

subtitle Subtitle string.

caption Caption title string.

label_to_case A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value
A ggplot object.

Examples
library(ggplot2)
library(dplyr)

set_blanket()
economics |>
    mutate(unemploy_rate = unemploy / pop) |>
    gg_path(
        x = unemploy_rate,
        y = psavert,
        x_label = "Unemployment rate",
        y_expand_limits = 0,
        y_label = "Personal savings rate",
    )

Description
Create a point ggplot with a wrapper around ggplot2::ggplot() + geom_point().

Usage

gg_point(
    data = NULL,
    ...,
    stat = "identity",
    position = "identity",
    coord = ggplot2::coord_cartesian(clip = "off"),
mode = NULL,
mode_orientation = NULL,
x = NULL,
xmin = NULL,
xmax = NULL,
xend = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
Arguments

data A data frame or tibble.
...
other arguments passed to within a params list in layer().

stat A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. "identity").

position A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).

coord A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).

mode A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.

mode_orientation The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".

x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample
An unquoted aesthetic variable.

mapping A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.

x_breaks, y_breaks, col_breaks
A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y_breaks_n, col_breaks_n  
A number of desired breaks for when *_breaks = NULL.

x_expand, y_expand  
Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).

x_expand_limits, y_expand_limits, col_expand_limits  
For a continuous variable, any values that the limits should encompass (e.g. 0).
For a discrete scale, manipulate the data instead with forcats::fct_expand.

x_label, y_label, col_label  
Label for the axis or legend title. Use + ggplot2::labs(... = NULL) for no title.

x_labels, y_labels, col_labels, facet_labels  
A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).

x_position, y_position  
The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".

x_sec_axis, y_sec_axis  
A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().

x_symmetric, y_symmetric  
TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform  
For a continuous scale, a transformation object (e.g. scales::transform_log10()) or character string of this minus the transform_ prefix (e.g. "log10").

col_drop, facet_drop  
For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow  
The number of columns and rows in a legend guide.

col_legend_rev  
TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

col_palette  
A character vector of hex codes (or names) or a scales::pal_*() function.

col_palette_na  
A hex code (or name) for the colour of NA values.

col_rescale  
For a continuous variable, a scales::rescale() function.

col_steps  
For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

facet_axes  
Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_mode_*() may be needed.

facet_axis_labels  
Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout  
Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
gg_pointrange

facet_ncol, facet_nrow
The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

facet_scales
Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

facet_space
When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title
Title string.

subtitle
Subtitle string.

caption
Caption title string.

label_to_case
A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value
A ggplot object.

Examples

library(ggplot2)
library(dplyr)
library(palmerpenguins)

set_blanket()

penguins |>  
  gg_point(  
    x = flipper_length_mm,
    y = body_mass_g,
    col = species,
  )

---

gg_pointrange | Pointrange ggplot

Description
Create a pointrange ggplot with a wrapper around ggplot2::ggplot() + geom_pointrange().
Usage

```r
gg_pointrange(
    data = NULL,
    ..., 
    stat = "identity",
    position = "identity",
    coord = ggplot2::coord_cartesian(clip = "off"),
    mode = NULL,
    mode_orientation = NULL,
    x = NULL,
    xmin = NULL,
    xmax = NULL,
    xend = NULL,
    y = NULL,
    ymin = NULL,
    ymax = NULL,
    yend = NULL,
    z = NULL,
    col = NULL,
    facet = NULL,
    facet2 = NULL,
    group = NULL,
    subgroup = NULL,
    label = NULL,
    text = NULL,
    sample = NULL,
    mapping = NULL,
    x_breaks = NULL,
    x_breaks_n = NULL,
    x_expand = NULL,
    x_expand_limits = NULL,
    x_label = NULL,
    x_labels = NULL,
    x_position = "bottom",
    x_sec_axis = ggplot2::waiver(),
    x_symmetric = NULL,
    x_transform = NULL,
    y_breaks = NULL,
    y_breaks_n = NULL,
    y_expand = NULL,
    y_expand_limits = NULL,
    y_label = NULL,
    y_labels = NULL,
    y_position = "left",
    y_sec_axis = ggplot2::waiver(),
    y_symmetric = NULL,
    y_transform = NULL,
    col_breaks = NULL,
)```
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_to_case = snakecase::to_sentence_case
)

Arguments

data A data frame or tibble.
...
stat A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. "identity").
position A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
coord A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).
mode A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.
mode_orientation The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group,
subgroup, label, text, sample
An unquoted aesthetic variable.
mapping  A set of additional aesthetic mappings in `ggplot2::aes()`. Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.

x_breaks, y_breaks, col_breaks
   A `scales::breaks_*` function (e.g. `scales::breaks_(*())`, or a vector of breaks.

x_breaks_n, y_breaks_n, col_breaks_n
   A number of desired breaks for when *_breaks = NULL.

x_expand, y_expand
   Padding to the limits with the `ggplot2::expansion()` function, or a vector of length 2 (e.g. `c(0, 0)`).

x_expand_limits, y_expand_limits, col_expand_limits
   For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with `forcats::fct_expand`.

x_label, y_label, col_label
   Label for the axis or legend title. Use `+ ggplot2::labs(... = NULL)` for no title.

x_labels, y_labels, col_labels, facet_labels
   A function that takes the breaks as inputs (e.g. `\(x\) stringr::str_to_sentence(x)` or `scales::label_*()`, or a vector of labels. (Note this must be named for `facet_labels`).

x_position, y_position
   The position of the axis (i.e. "left", "right", "bottom" or "top"). If using `y_position = "top"` with a *_mode_* theme, add `caption = ""` or `caption = "\n"`.

x_sec_axis, y_sec_axis
   A secondary axis with `ggplot2::dup_axis()` or `ggplot2::sec_axis()`.

x_symmetric, y_symmetric
   TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform
   For a continuous scale, a transformation object (e.g. `scales::transform_log10()` or character string of this minus the `transform_` prefix (e.g. "log10").

col_drop, facet_drop
   For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow
   The number of columns and rows in a legend guide.

col_legend_rev
   TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

col_palette
   A character vector of hex codes (or names) or a `scales::pal_*()` function.

col_palette_na
   A hex code (or name) for the colour of NA values.

col_rescale
   For a continuous variable, a `scales::rescale()` function.

col_steps
   For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

facet_axes
   Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes `+ *_mode_*()` may be needed.
**gg_pointrange**

- **facet_axis_labels**: Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
- **facet_layout**: Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
- **facet_ncol, facet_nrow**: The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
- **facet_scales**: Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
- **facet_space**: When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
- **title**: Title string.
- **subtitle**: Subtitle string.
- **caption**: Caption title string.
- **label_to_case**: A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

**Value**

A ggplot object.

**Examples**

```r
library(ggplot2)
library(dplyr)

set_blanket()

data.frame(
  trt = factor(c(1, 1, 2, 2)),
  resp = c(1, 5, 3, 4),
  group = factor(c(1, 2, 1, 2)),
  upper = c(1.1, 5.3, 3.3, 4.2),
  lower = c(0.8, 4.6, 2.4, 3.6)
)

gg_pointrange(
  x = trt,
  y = resp,
  col = group,
  ymin = lower,
  ymax = upper,
  position = position_dodge(width = 0.2),
  x_label = "Treatment",
  y_label = "Response",
)
```
Description

Create a polygon ggplot with a wrapper around `ggplot2::ggplot() + geom_polygon()`.

Usage

```r
gg_polygon(
  data = NULL,
  ..., 
  stat = "identity", 
  position = "identity", 
  coord = ggplot2::coord_cartesian(clip = "off"), 
  mode = NULL, 
  mode_orientation = NULL, 
  x = NULL, 
  xmin = NULL, 
  xmax = NULL, 
  xend = NULL, 
  y = NULL, 
  ymin = NULL, 
  ymax = NULL, 
  yend = NULL, 
  z = NULL, 
  col = NULL, 
  facet = NULL, 
  facet2 = NULL, 
  group = NULL, 
  subgroup = NULL, 
  label = NULL, 
  text = NULL, 
  sample = NULL, 
  mapping = NULL, 
  x_breaks = NULL, 
  x_breaks_n = NULL, 
  x_expand = NULL, 
  x_expand_limits = NULL, 
  x_label = NULL, 
  x_labels = NULL, 
  x_position = "bottom", 
  x_sec_axis = ggplot2::waiver(), 
  x_symmetric = NULL, 
  x_transform = NULL,
)```
Arguments

data A data frame or tibble.

... Other arguments passed to within a params list in layer().

stat A statistical transformation to use on the data. A snakecase character string of a


ggproto Stat subclass object minus the Stat prefix (e.g. "identity").

position A position adjustment. A snakecase character string of a gproto Position sub-

class object minus the Position prefix (e.g. "identity"), or a position_() function that outputs a gproto Position subclass object (e.g. ggplot2::position_identity()).
coord  
A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).

mode  
A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.

mode_orientation  
The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".

x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample  
An unquoted aesthetic variable.

mapping  
A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.

x_breaks, y_breaks, col_breaks  
A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.

x_breaks_n, y_breaks_n, col_breaks_n  
A number of desired breaks for when *_breaks = NULL.

x_expand, y_expand  
Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).

x_expand_limits, y_expand_limits, col_expand_limits  
For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.

x_label, y_label, col_label  
Label for the axis or legend title. Use + ggplot2::labs(...) = NULL for no title.

x_labels, y_labels, col_labels, facet_labels  
A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).

x_position, y_position  
The position of the axis (i.e. "left", "right", "bottom" or "top").If using y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".

x_sec_axis, y_sec_axis  
A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().

x_symmetric, y_symmetric  
TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform  
For a continuous scale, a transformation object (e.g. scales::transform_log10()) or character string of this minus the transform_ prefix (e.g. "log10").

col_drop, facet_drop  
For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow  
The number of columns and rows in a legend guide.
col_legend_rev: TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

col_palette: A character vector of hex codes (or names) or a scales::pal_*() function.

col_palette_na: A hex code (or name) for the colour of NA values.

col_rescale: For a continuous variable, a scales::rescale() function.

col_steps: For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

facet_axes: Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_mode_*() may be needed.

facet_axis_labels: Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout: Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

facet_ncol, facet_nrow: The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

facet_scales: Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

facet_space: When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title: Title string.

subtitle: Subtitle string.

caption: Caption title string.

label_to_case: A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value:
A ggplot object.

Examples
library(ggplot2)
library(dplyr)

set_blanket()

ids <- factor(c("1.1", "2.1", "1.2", "2.2", "1.3", "2.3"))

values <- data.frame(
  id = ids,
  value = c(3, 3.1, 3.1, 3.2, 3.15, 3.5))
positions <- data.frame(
  id = rep(ids, each = 4),
  x = c(2, 1, 1.1, 2.2, 1, 0, 0.3, 1.1, 2.2, 1.1, 1.2, 2.5, 1.1, 0.3,
        0.5, 1.2, 2.5, 1.2, 1.3, 2.7, 1.2, 0.5, 0.6, 1.3
  ),
  y = c(-0.5, 0, 1, 0.5, 0, 0.5, 1, 0.5, 1, 2.1, 1.7, 1, 1.5,
        2.2, 2.1, 1.7, 2.1, 3.2, 2.8, 2.1, 2.2, 3.3, 3.2
  )
)

datapoly <- merge(values, positions, by = c("id"))

datapoly |> 
  gg_polygon(
    x = x,
    y = y,
    col = value,
    group = id,
  )

---

\textbf{gg\_qq} \hspace{2cm} Qq ggplot

\textbf{Description}

Create a qq ggplot with a wrapper around \texttt{ggplot2::ggplot()} + \texttt{geom\_qq()}.

\textbf{Usage}

\begin{verbatim}
gg_qq( 
  data = NULL, 
  ..., 
  stat = "qq", 
  position = "identity", 
  coord = ggplot2::coord_cartesian(clip = "off"), 
  mode = NULL, 
  mode_orientation = NULL, 
  x = NULL, 
  xmin = NULL, 
  xmax = NULL, 
  xend = NULL, 
  y = NULL, 
  ymin = NULL, 
  ymax = NULL,
\end{verbatim}
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_to_case = snakecase::to_sentence_case
)

Arguments

data A data frame or tibble.
...
stat A statistical transformation to use on the data. A snakecase character string of a
ggproto Stat subclass object minus the Stat prefix (e.g. "identity").
position A position adjustment. A snakecase character string of a ggproto Position sub-
class object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
coord A coordinate system. A coord_*() function that outputs a constructed ggproto
Coord subclass object (e.g. ggplot2::coord_cartesian()).
mode A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates
side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.
mode_orientation The orientation of plot, which affects the theme components that are removed
from the mode. Either "x" or "y".
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group,
subgroup, label, text, sample
An unquoted aesthetic variable.
mapping A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily
for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but
can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks
A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of
breaks.
x_breaks_n, y_breaks_n, col_breaks_n
A number of desired breaks for when _breaks = NULL.
x_expand, y_expand Padding to the limits with the ggplot2::expansion() function, or a vector of
length 2 (e.g. c(0, 0)).
x_expand_limits, y_expand_limits, col_expand_limits
For a continuous variable, any values that the limits should encompass (e.g. 0).
For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_label, col_label
Label for the axis or legend title. Use + ggplot2::labs(... = NULL) for no title.

x_labels, y_labels, col_labels, facet_labels
A function that takes the breaks as inputs (e.g. \(\text{stringr::str_to_sentence(x)}\)
or \(\text{scales::label_*()}\), or a vector of labels. (Note this must be named for facet_labels).

x_position, y_position
The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".

x_sec_axis, y_sec_axis
A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().

x_symmetric, y_symmetric
TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform
For a continuous scale, a transformation object (e.g. scales::transform_log10()) or character string of this minus the transform_ prefix (e.g. "log10").

col_drop, facet_drop
For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legendlncol, col_legend_nrow
The number of columns and rows in a legend guide.

col_legend_rev TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

col_palette A character vector of hex codes (or names) or a scales::pal_*() function.

col_palette_na A hex code (or name) for the colour of NA values.

col_rescale For a continuous variable, a scales::rescale() function.

col_steps For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

facet_axes Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_mode_*() may be needed.

facet_axis_labels Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

facet_ncol, facet_nrow
The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

facet_scales Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

facet_space When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
gg_quantile

<table>
<thead>
<tr>
<th>title</th>
<th>Title string.</th>
</tr>
</thead>
<tbody>
<tr>
<td>subtitle</td>
<td>Subtitle string.</td>
</tr>
<tr>
<td>caption</td>
<td>Caption title string.</td>
</tr>
<tr>
<td>label_to_case</td>
<td>A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.</td>
</tr>
</tbody>
</table>

Value

A ggplot object.

Examples

```r
library(ggplot2)
library(dplyr)
library(palmerpenguins)

set_blanket()

penguins |> 
  gg_qq(
    sample = body_mass_g,
    facet = species,
    coord = coord_cartesian(clip = "on"),
  ) +
  geom_qq_line(
    colour = blue,
  )
```

Description

Create an quantile ggplot with a wrapper around ggplot2::ggplot() + geom_quantile().

Usage

```r
gg_quantile(
  data = NULL,
  ...,
  stat = "quantile",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  ...)```
xmax = NULL,
xend = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legends_ncol = NULL,
col_legends_nrow = NULL,
col_legends_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_to_case = snakecase::to_sentence_case
)

Arguments

- **data**
  A data frame or tibble.

- **...**
  Other arguments passed to within a params list in layer().

- **stat**
  A statistical transformation to use on the data. A snakecase character string of a
  ggproto Stat subclass object minus the Stat prefix (e.g. "identity").

- **position**
  A position adjustment. A snakecase character string of a ggproto Position subclass
  object minus the Position prefix (e.g. "identity"), or a position_*() function
  that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).

- **coord**
  A coordinate system. A coord_*() function that outputs a constructed ggproto
  Coord subclass object (e.g. ggplot2::coord_cartesian()).

- **mode**
  A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates
  side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.

- **mode_orientation**
  The orientation of plot, which affects the theme components that are removed
  from the mode. Either "x" or "y".

- **x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample**
  An unquoted aesthetic variable.

- **mapping**
  A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily
  for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but
  can also be used for delayed evaluation etc.

- **x_breaks, y_breaks, col_breaks**
  A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of
  breaks.

- **x_breaks_n, y_breaks_n, col_breaks_n**
  A number of desired breaks for when *_breaks = NULL.

- **x_expand, y_expand**
  Padding to the limits with the ggplot2::expansion() function, or a vector of
  length 2 (e.g. c(0, 0)).
x_expand_limits, y_expand_limits, col_expand_limits
For a continuous variable, any values that the limits should encompass (e.g. 0).
For a discrete scale, manipulate the data instead with forcats::fct_expand.

x_label, y_label, col_label
Label for the axis or legend title. Use + ggplot2::labs(... = NULL) for no title.

x_labels, y_labels, col_labels, facet_labels
A function that takes the breaks as inputs (e.g. \(x\) stringr::str_to_sentence(x)
or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).

x_position, y_position
The position of the axis (i.e. "left", "right", "bottom" or "top"). If using
y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".

x_sec_axis, y_sec_axis
A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().

x_symmetric, y_symmetric
TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform
For a continuous scale, a transformation object (e.g. scales::transform_log10())
or character string of this minus the transform_ prefix (e.g. "log10").

col_drop, facet_drop
For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow
The number of columns and rows in a legend guide.

col_legend_rev
TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

col_palette
A character vector of hex codes (or names) or a scales::pal_*() function.

col_palette_na
A hex code (or name) for the colour of NA values.

col_rescale
For a continuous variable, a scales::rescale() function.

col_steps
For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

facet_axes
Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_mode_*() may be needed.

facet_axis_labels
Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout
Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

facet_ncol, facet_nrow
The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

facet_scales
Whether facet scales should be “fixed” across facets, “free” in both directions, or free in just one direction (i.e. “free_x” or “free_y”). Defaults to “fixed”.
facet_space When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title Title string.

subtitle Subtitle string.

caption Caption title string.

label_to_case A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value
A ggplot object.

Examples
if (requireNamespace("quantreg", quietly = TRUE)) {
  library(ggplot2)
  library(palmerpenguins)

  set_blanket()

  penguins |> 
    gg_quantile( 
      x = flipper_length_mm, 
      y = body_mass_g, 
    ) 
}

Description
Create a raster ggplot with a wrapper around ggplot2::ggplot() + geom_raster().

Usage
gg_raster( 
  data = NULL, 
  ...,
  stat = "identity", 
  position = "identity", 
  coord = ggplot2::coord_cartesian(clip = "off"), 
  mode = NULL, 
  mode_orientation = NULL, 
)
x = NULL,
xmin = NULL,
xmax = NULL,
xend = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_to_case = snakecase::to_sentence_case
)

Arguments

data A data frame or tibble.
...
Other arguments passed to within a params list in layer().
stat A statistical transformation to use on the data. A snakecase character string of a
ggproto Stat subclass object minus the Stat prefix (e.g. "identity").
position A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
coord A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).
mode A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.
mode_orientation The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample
An unquoted aesthetic variable.
mapping A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks
A scales::breaks_* function (e.g. scales::breaks_*)(), or a vector of breaks.
x_breaks_n, y_breaks_n, col_breaks_n
A number of desired breaks for when *_breaks = NULL.
Padding to the limits with the `ggplot2::expansion()` function, or a vector of length 2 (e.g. `c(0, 0)`).

For a continuous variable, any values that the limits should encompass (e.g. `0`). For a discrete scale, manipulate the data instead with `forcats::fct_expand`.

Label for the axis or legend title. Use `+ ggplot2::labs(... = NULL)` for no title.

A function that takes the breaks as inputs (e.g. `\(x\)` stringr::str_to_sentence(x) or `scales::label_*()`), or a vector of labels. (Note this must be named for `facet_labels`).

The position of the axis (i.e. "left", "right", "bottom" or "top"). If using `y_position = "top"` with a `*_mode_*` theme, add `caption = ""` or `caption = "\n"`.

A secondary axis with `ggplot2::dup_axis()` or `ggplot2::sec_axis()`.

TRUE or FALSE of whether a symmetric scale.

For a continuous scale, a transformation object (e.g. `scales::transform_log10()`)

For a discrete variable, FALSE or TRUE of whether to drop unused levels.

The number of columns and rows in a legend guide.

TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

A character vector of hex codes (or names) or a `scales::pal_*()` function.

A hex code (or name) for the colour of NA values.

For a continuous variable, a `scales::rescale()` function.

For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes `+ _mode_*()` may be needed.

Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
facet_scales  Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

facet_space  When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title  Title string.
subtitle  Subtitle string.
caption  Caption title string.
label_to_case  A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value
A ggplot object.

Examples
library(ggplot2)
library(dplyr)
set_blanket()
faithfuld |> 
gg_raster(
  x = waiting,
  y = eruptions,
  col = density,
)

Description
Create a rect ggplot with a wrapper around ggplot2::ggplot() + geom_rect().

Usage
gg_rect(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
)

mode = NULL,
mode_orientation = NULL,
x = NULL,
xmin = NULL,
xmax = NULL,
xend = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_to_case = snakecase::to_sentence_case
)

Arguments

data

A data frame or tibble.

... Other arguments passed to within a params list in layer().

stat

A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. "identity").

position

A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).

coord

A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).

mode

A ggplot2 theme (e.g. light_mode_t() or dark_mode_r() ) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.

mode_orientation

The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".

x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample

An unquoted aesthetic variable.

mapping

A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.

x_breaks, y_breaks, col_breaks

A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y_breaks_n, col_breaks_n
   A number of desired breaks for when *_breaks = NULL.

x_expand, y_expand
   Padding to the limits with the ggplot2::expansion() function, or a vector of
   length 2 (e.g. c(0, 0)).

x_expand_limits, y_expand_limits, col_expand_limits
   For a continuous variable, any values that the limits should encompass (e.g. 0).
   For a discrete scale, manipulate the data instead with forcats::fct_expand.

x_label, y_label, col_label
   Label for the axis or legend title. Use + ggplot2::labs(... = NULL) for no
   title.

x_labels, y_labels, col_labels, facet_labels
   A function that takes the breaks as inputs (e.g. \(x\) stringr::str_to_sentence(x)
   or scales::label_*()), or a vector of labels. (Note this must be named for
   facet_labels).

x_position, y_position
   The position of the axis (i.e. "left", "right", "bottom" or "top"). If using
   y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".

x_sec_axis, y_sec_axis
   A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().

x_symmetric, y_symmetric
   TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform
   For a continuous scale, a transformation object (e.g. scales::transform_log10())
   or character string of this minus the transform_ prefix (e.g. "log10").

col_drop, facet_drop
   For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow
   The number of columns and rows in a legend guide.

col_legend_rev TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to
   FALSE.

col_palette A character vector of hex codes (or names) or a scales::pal_*() function.

col_palette_na A hex code (or name) for the colour of NA values.

col_rescale For a continuous variable, a scales::rescale() function.

col_steps For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

facet_axes Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_mode_*() may be needed.

facet_axis_labels Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
**facet_ncol, facet_nrow**
The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

**facet_scales**
Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

**facet_space**
When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

**title**
Title string.

**subtitle**
Subtitle string.

**caption**
Caption title string.

**label_to_case**
A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

---

**Value**
A ggplot object.

---

**Examples**

```r
library(ggplot2)
library(dplyr)

set_blanket()

data.frame(
  x = rep(c(2, 5, 7, 9, 12), 2),
  y = rep(c(1, 2), each = 5),
  z = factor(c(rep(1:4, each = 2), 5, NA)),
  w = rep(diff(c(0, 4, 6, 8, 10, 14)), 2)
) |> mutate(
  xmin = x - w / 2,
  xmax = x + w / 2,
  ymin = y,
  ymax = y + 1
) |> gg_rect(
  xmin = xmin,
  xmax = xmax,
  ymin = ymin,
  ymax = ymax,
  col = z,
)```
Description

Create a ribbon ggplot with a wrapper around `ggplot2::ggplot() + geom_ribbon()`.

Usage

```r
gg_ribbon(
  data = NULL,
  ..., 
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_expand_limits = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
  x_symmetric = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_breaks_n = NULL,
)```
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_to_case = snakecase::to_sentence_case
)

Arguments

data A data frame or tibble.

... Other arguments passed to within a params list in layer().

stat A statistical transformation to use on the data. A snakecase character string of a
ggproto Stat subclass object minus the Stat prefix (e.g. "identity").

position A position adjustment. A snakecase character string of a ggproto Position sub-
class object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).

coord A coordinate system. A coord_*() function that outputs a constructed ggproto
Coord subclass object (e.g. ggplot2::coord_cartesian()).
mode A ggplot2 theme (e.g. \texttt{light\_mode\_t()} or \texttt{dark\_mode\_r()}) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the \texttt{mode\_orientation}.

\textbf{mode\_orientation} The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".

\texttt{x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample}

An unquoted aesthetic variable.

\textbf{mapping} A set of additional aesthetic mappings in \texttt{ggplot2::aes()}. Intended primarily for non-supported aesthetics (e.g. \texttt{shape}, \texttt{linetype}, \texttt{linewidth}, or \texttt{size}), but can also be used for delayed evaluation etc.

\texttt{x\_breaks, y\_breaks, col\_breaks}

A \texttt{scales::breaks\_*} function (e.g. \texttt{scales::breaks\_*()}, or a vector of breaks.

\texttt{x\_breaks\_n, y\_breaks\_n, col\_breaks\_n}

A number of desired breaks for when \texttt{*_breaks = NULL}.

\texttt{x\_expansion, y\_expansion}

Padding to the limits with the \texttt{ggplot2::expansion()} function, or a vector of length 2 (e.g. \texttt{c(0, 0)}).

\texttt{x\_expand\_limits, y\_expand\_limits, col\_expand\_limits}

For a continuous variable, any values that the limits should encompass (e.g. \texttt{0}). For a discrete scale, manipulate the data instead with \texttt{forcats::fct\_expand}.

\texttt{x\_label, y\_label, col\_label}

Label for the axis or legend title. Use \texttt{+ ggplot2::labs(... = NULL)} for no title.

\texttt{x\_labels, y\_labels, col\_labels, facet\_labels}

A function that takes the breaks as inputs (e.g. \texttt{\(\backslash(x)\) stringr::str\_to\_sentence(x)} or \texttt{scales::label\_*()}), or a vector of labels. (Note this must be named for \texttt{facet\_labels}).

\texttt{x\_position, y\_position}

The position of the axis (i.e. "left", "right", "bottom" or "top"). If using \texttt{y\_position = "top" with a \_mode\_* theme, add caption = "" or caption = "\n"}.

\texttt{x\_sec\_axis, y\_sec\_axis}

A secondary axis with \texttt{ggplot2::dup\_axis()} or \texttt{ggplot2::sec\_axis()}.

\texttt{x\_symmetric, y\_symmetric}

\texttt{TRUE} or \texttt{FALSE} of whether a symmetric scale.

\texttt{x\_transform, y\_transform, col\_transform}

For a continuous scale, a transformation object (e.g. \texttt{scales::transform\_log10()}) or character string of this minus the \texttt{transform\_prefix} (e.g. "log10").

\texttt{col\_drop, facet\_drop}

For a discrete variable, \texttt{FALSE} or \texttt{TRUE} of whether to drop unused levels.

\texttt{col\_legend\_ncol, col\_legend\_nrow}

The number of columns and rows in a legend guide.

\texttt{col\_legend\_rev}

\texttt{TRUE} or \texttt{FALSE} of whether to reverse the elements of a legend guide. Defaults to \texttt{FALSE}. 
col_palette A character vector of hex codes (or names) or a scales::pal_*() function.
col_palette_na A hex code (or name) for the colour of NA values.
col_rescale For a continuous variable, a scales::rescale() function.
col_steps For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
facet_axes Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + _mode_*() may be needed.
facet_axis_labels Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_layout Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
facet_ncol, facet_nrow The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
facet_scales Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
facet_space When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title Title string.
subtitle Subtitle string.
caption Caption title string.
label_to_case A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value
A ggplot object.

Examples
library(ggplot2)
library(dplyr)

set_blanket()

data.frame(year = 1875:1972, level = as.vector(LakeHuron)) |>
  mutate(level_min = level - 1, level_max = level + 1) |>
gg_ribbon(
  x = year,
  ymin = level_min,
  ymax = level_max,
  colour = NA,
Description

Create a rug ggplot with a wrapper around `ggplot2::ggplot()` + `geom_rug()`.

Usage

```r
gg_rug(
  data = NULL,
  ..., 
  stat = "identity", 
  position = "identity", 
  coord = ggplot2::coord_cartesian(clip = "off"), 
  mode = NULL, 
  mode_orientation = NULL, 
  x = NULL, 
  xmin = NULL, 
  xmax = NULL, 
  xend = NULL, 
  y = NULL, 
  ymin = NULL, 
  ymax = NULL, 
  yend = NULL, 
  z = NULL, 
  col = NULL, 
  facet = NULL, 
  facet2 = NULL, 
  group = NULL, 
  subgroup = NULL, 
  label = NULL, 
  text = NULL, 
  sample = NULL, 
  mapping = NULL, 
  x_breaks = NULL, 
  x_breaks_n = NULL, 
  x_expand = NULL, 
  x_expand_limits = NULL, 
  x_label = NULL, 
  x_labels = NULL,
) +
geom_line(mapping = aes(y = level))
```
Arguments

data A data frame or tibble.
...
stat A statistical transformation to use on the data. A snakecase character string of a
position
A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).

coord
A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).

mode
A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.

mode_orientation
The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".

x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample
An unquoted aesthetic variable.

mapping
A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.

x_breaks, y_breaks, col_breaks
A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.

x_breaks_n, y_breaks_n, col_breaks_n
A number of desired breaks for when *_breaks = NULL.

x_expand, y_expand
Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).

x_expand_limits, y_expand_limits, col_expand_limits
For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.

x_label, y_label, col_label
Label for the axis or legend title. Use + ggplot2::labs(...) = NULL for no title.

x_labels, y_labels, col_labels, facet_labels
A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).

x_position, y_position
The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".

x_sec_axis, y_sec_axis
A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().

x_symmetric, y_symmetric
TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform
For a continuous scale, a transformation object (e.g. scales::transform_log10()) or character string of this minus the transform_prefix (e.g. "log10").
col_drop, facet_drop
  For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow
  The number of columns and rows in a legend guide.

col_legend_rev
  TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

col_palette
  A character vector of hex codes (or names) or a scales::pal_*() function.

col_palette_na
  A hex code (or name) for the colour of NA values.

col_steps
  For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

facet_axes
  Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_mode_*() may be needed.

facet_axis_labels
  Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout
  Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

facet_ncol, facet_nrow
  The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

facet_scales
  Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

facet_space
  When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title
  Title string.

subtitle
  Subtitle string.

caption
  Caption title string.

label_to_case
  A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value
  A ggplot object.

Examples
  library(ggplot2)
  library(dplyr)
  library(palmerpenguins)

  set_blanket()
gg_segment

penguins |> 
  gg_rug(
    x = flipper_length_mm,
    y = body_mass_g,
    col = species,
  )

Description

Create a segment ggplot with a wrapper around `ggplot2::ggplot()` + `geom_segment()`.

Usage

```r
gg_segment(
  data = NULL,
  ...
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  xexpand = NULL,
  xexpand_limits = NULL,
)```
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col.palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet.drop = FALSE,
facet.labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet.scales = "fixed",
facet.space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_to_case = snakecase::to_sentence_case
)

Arguments

data A data frame or tibble.
... Other arguments passed to within a params list in layer().

**stat**
A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. "identity").

**position**
A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).

**coord**
A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).

**mode**
A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.

**mode_orientation**
The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".

**x, xmin, xmax, xend, y, ymin, ymax, z, col, facet, facet2, group, subgroup, label, text, sample**
An unquoted aesthetic variable.

**mapping**
A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.

**x_breaks, y_breaks, col_breaks**
A scales::breaks_* function (e.g. scales::breaks_*)(), or a vector of breaks.

**x_breaks_n, y_breaks_n, col_breaks_n**
A number of desired breaks for when *_breaks = NULL.

**x_expand, y_expand**
Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).

**x_expand_limits, y_expand_limits, col_expand_limits**
For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.

**x_label, y_label, col_label**
Label for the axis or legend title. Use + ggplot2::labs(...) = NULL for no title.

**x_labels, y_labels, col_labels, facet_labels**
A function that takes the breaks as inputs (e.g. \(x\) stringr::str_to_sentence(x) or scales::label_*)(), or a vector of labels. (Note this must be named for facet_labels).

**x_position, y_position**
The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".

**x_sec_axis, y_sec_axis**
A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().

**x_symmetric, y_symmetric**
TRUE or FALSE of whether a symmetric scale.
x_transform, y_transform, col_transform

For a continuous scale, a transformation object (e.g. `scales::transform_log10()`) or character string of this minus the transform_ prefix (e.g. "log10").

col_drop, facet_drop

For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow

The number of columns and rows in a legend guide.

col_legend_rev

TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

col_palette

A character vector of hex codes (or names) or a `scales::pal_*(*)` function.

col_palette_na

A hex code (or name) for the colour of NA values.

col_rescale

For a continuous variable, a `scales::rescale()` function.

col_steps

For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

facet_axes

Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + _mode_*() may be needed.

facet_axis_labels

Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout

Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

facet_ncol, facet_nrow

The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

facet_scales

Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

facet_space

When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title

Title string.

subtitle

Subtitle string.

caption

Caption title string.

label_to_case

A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.
Examples

library(ggplot2)
library(dplyr)
library(palmerpenguins)

set_blanket()

data.frame(x1 = 2.62, x2 = 3.57, y1 = 21.0, y2 = 15.0) |> gg_segment(
  x = x1,
  xend = x2,
  y = y1,
  yend = y2,
)

Description

Create a blank ggplot with a wrapper around \texttt{ggplot2::ggplot()} + \texttt{geom_sf}().

Usage

\begin{verbatim}
gg_sf(
  data = NULL,
  ..., 
  stat = "sf",
  position = "identity",
  coord = ggplot2::coord_sf(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
)\end{verbatim}
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL, 
label_to_case = snakecase::to_sentence_case
)

Arguments

data A data frame or tibble.

... Other arguments passed to within a params list in layer().

stat A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. "identity").

position A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).

coord A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).

mode A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.

mode_orientation The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".

x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample
An unquoted aesthetic variable.

mapping A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.

x_breaks, y_breaks, col_breaks
A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.

x_breaks_n, y_breaks_n, col_breaks_n
A number of desired breaks for when *_breaks = NULL.

x_expand, y_expand Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).

x_expand_limits, y_expand_limits, col_expand_limits For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.

x_label, y_label, col_label
Label for the axis or legend title. Use + ggplot2::labs(... = NULL) for no title.

x_labels, y_labels, col_labels, facet_labels
A function that takes the breaks as inputs (e.g. \(x\) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
The position of the axis (i.e. "left", "right", "bottom" or "top"). If using `y_position = "top"` with a `_mode_*` theme, add `caption = ""` or `caption = "\n"`.

A secondary axis with `ggplot2::dup_axis()` or `ggplot2::sec_axis()`.

TRUE or FALSE of whether a symmetric scale.

For a continuous scale, a transformation object (e.g. `scales::transform_log10()`) or character string of this minus the `transform_` prefix (e.g. "log10").

For a discrete variable, FALSE or TRUE of whether to drop unused levels.

The number of columns and rows in a legend guide.

TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

A character vector of hex codes (or names) or a `scales::pal_*()` function.

A hex code (or name) for the colour of NA values.

For a continuous variable, a `scales::rescale()` function.

For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes `_mode_*()` may be needed.

Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

Title string.

Subtitle string.

Caption title string.

A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to `snakecase::to_sentence_case`. 
**gg_smooth**

**Value**

A ggplot object.

**Examples**

```r
library(ggplot2)
library(dplyr)
set_blanket()

if (requireNamespace("sf", quietly = TRUE)) {
  sf::st_read(system.file("shape/nc.shp", package = "sf")) |>
    gg_sf(
      col = AREA,
    )
}
```

---

**gg_smooth Smooth ggplot**

**Description**

Create a smooth ggplot with a wrapper around `ggplot2::ggplot()` + `geom_smooth()`.

**Usage**

```r
gg_smooth(
  data = NULL,
  ..., 
  stat = "smooth",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
)```
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed"
title = NULL,
subtitle = NULL,
caption = NULL,
label_to_case = snakecase::to_sentence_case
)

Arguments

data
A data frame or tibble.

... Other arguments passed to within a params list in layer().

stat
A statistical transformation to use on the data. A snakecase character string of a
ggproto Stat subclass object minus the Stat prefix (e.g. "identity").

position
A position adjustment. A snakecase character string of a ggproto Position sub-
class object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).

coord
A coordinate system. A coord_*() function that outputs a constructed ggproto
Coord subclass object (e.g. ggplot2::coord_cartesian()).

mode
A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates
side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.

mode_orientation
The orientation of plot, which affects the theme components that are removed
from the mode. Either "x" or "y".

x, xmin, xmax, xend, y, ymin, ymax, yend, col, facet, facet2, group,
subgroup, label, text, sample
An unquoted aesthetic variable.

mapping
A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily
for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but
can also be used for delayed evaluation etc.

x_breaks, y_breaks, col_breaks
A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of
breaks.

x_breaks_n, y_breaks_n, col_breaks_n
A number of desired breaks for when *_breaks = NULL.

x_expand, y_expand
Padding to the limits with the ggplot2::expansion() function, or a vector of
length 2 (e.g. c(0, 0)).

x-expand_limits, y-expand_limits, col-expand_limits
For a continuous variable, any values that the limits should encompass (e.g. 0).
For a discrete scale, manipulate the data instead with forcats::fct_expand.

x_label, y_label, col_label
Label for the axis or legend title. Use + ggplot2::labs(... = NULL) for no
title.

x_labels, y_labels, col_labels, facet_labels
A function that takes the breaks as inputs (e.g. \( \text{\texttt{\{x\}}} \) stringr::str_to_sentence(x)
or scales::label_*(), or a vector of labels. (Note this must be named for
facet_labels).
x_position, y_position

The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".

x_sec_axis, y_sec_axis

A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().

x_symmetric, y_symmetric

TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

For a continuous scale, a transformation object (e.g. scales::transform_log10()) or character string of this minus the transform_ prefix (e.g. "log10").

col_drop, facet_drop

For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow

The number of columns and rows in a legend guide.

col_legend_rev

TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

col_palette

A character vector of hex codes (or names) or a scales::pal_*() function.

col_palette_na

A hex code (or name) for the colour of NA values.

col_rescale

For a continuous variable, a scales::rescale() function.

col_steps

For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

facet_axes

Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_mode_*() may be needed.

facet_axis_labels

Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout

Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

facet_ncol, facet_nrow

The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

facet_scales

Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

facet_space

When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title

Title string.

subtitle

Subtitle string.

caption

Caption title string.

label_to_case

A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.
Value

A ggplot object.

Examples

library(ggplot2)
library(dplyr)
library(palmerpenguins)

set_blanket()

penguins |>
   gg_smooth(
       x = flipper_length_mm,
       y = body_mass_g,
       col = species,
       se = TRUE,
   )

Description

Create a step plot with a wrapper around ggplot2::ggplot() + geom_step().

Usage

gg_step(
    data = NULL,
    ..., 
    stat = "identity",
    position = "identity",
    coord = ggplot2::coord_cartesian(clip = "off"),
    mode = NULL,
    mode_orientation = NULL,
    x = NULL,
    xmin = NULL,
    xmax = NULL,
    xend = NULL,
    y = NULL,
    ymin = NULL,
    ymax = NULL,
    yend = NULL,
    z = NULL,
    col = NULL,
    facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
gg_step

```r
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_to_case = snakecase::to_sentence_case
)
```

**Arguments**

- `data` A data frame or tibble.
- `...` Other arguments passed to within a `params` list in `layer()`.
- `stat` A statistical transformation to use on the data. A snakcase character string of a `ggproto Stat` subclass object minus the `Stat` prefix (e.g. "identity").
- `position` A position adjustment. A snakcase character string of a `ggproto Position` subclass object minus the `Position` prefix (e.g. "identity"), or a `position_*()` function that outputs a `ggproto Position` subclass object (e.g. `ggplot2::position_identity()`).
- `coord` A coordinate system. A `coord_*()` function that outputs a constructed `ggproto Coord` subclass object (e.g. `ggplot2::coord_cartesian()`).
- `mode` A `ggplot2` theme (e.g. `light_mode_t()` or `dark_mode_r()`) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the `mode_orientation`.
- `mode_orientation` The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".
- `x, xmin, xmax, xend, y, ymin, ymax, z, col, facet, facet2, group, subgroup, label, text, sample` An unquoted aesthetic variable.
- `mapping` A set of additional aesthetic mappings in `ggplot2::aes()`. Intended primarily for non-supported aesthetics (e.g. `shape`, `linetype`, `linewidth`, or `size`), but can also be used for delayed evaluation etc.
- `x_breaks, y_breaks, col_breaks` A `scales::breaks_*` function (e.g. `scales::breaks_*()`), or a vector of breaks.
- `x_breaks_n, y_breaks_n, col_breaks_n` A number of desired breaks for when `*_breaks = NULL`.
- `x_expand, y_expand` Padding to the limits with the `ggplot2::expansion()` function, or a vector of length 2 (e.g. `c(0, 0)`).
- `x_expand_limits, y_expand_limits, col_expand_limits` For a continuous variable, any values that the limits should encompass (e.g. `0`). For a discrete scale, manipulate the data instead with `forcats::fct Expand`.
- `x_label, y_label, col_label` Label for the axis or legend title. Use `+ ggplot2::labs(...) = NULL` for no title.
x_labels, y_labels, col_labels, facet_labels
   A function that takes the breaks as inputs (e.g. `\(\text{stringr::str_to_sentence(x)}\)` or `scales::label_*()`), or a vector of labels. (Note this must be named for facet_labels).

x_position, y_position
   The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".

x_sec_axis, y_sec_axis
   A secondary axis with `ggplot2::dup_axis()` or `ggplot2::sec_axis()`.

x_symmetric, y_symmetric
   TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform
   For a continuous scale, a transformation object (e.g. `scales::transform_log10()` or character string of this minus the transform_ prefix (e.g. "log10").

col_drop, facet_drop
   For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow
   The number of columns and rows in a legend guide.

col_legend_rev
   TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

col_palette
   A character vector of hex codes (or names) or a `scales::pal_*()` function.

col_palette_na
   A hex code (or name) for the colour of NA values.

col_rescale
   For a continuous variable, a `scales::rescale()` function.

col_steps
   For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

facet_axes
   Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_mode_*() may be needed.

facet_axis_labels
   Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout
   Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

facet_ncol, facet_nrow
   The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

facet_scales
   Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

facet_space
   When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title
   Title string.
subtitle  Subtitle string.
caption  Caption title string.
label_to_case  A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value
A ggplot object.

Examples
library(ggplot2)
library(dplyr)

set_blanket()

economics |>
  filter(date > lubridate::ymd("2010-01-01")) |>
  gg_step(
    x = date,
    y = unemploy,
    y_expand_limits = 0,
    y_label = "Unemployment",
  )

Description
Create a text plot with a wrapper around ggplot2::ggplot() + geom_text().

Usage
gg_text(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,

---

**gg_text**  

*Text ggplot*

---

Create a text plot with a wrapper around `ggplot2::ggplot()` + `geom_text()`.

Usage

```r
 gg_text(
   data = NULL,
   ...,
   stat = "identity",
   position = "identity",
   coord = ggplot2::coord_cartesian(clip = "off"),
   mode = NULL,
   mode_orientation = NULL,
   x = NULL,
   xmin = NULL,
   xmax = NULL,
   xend = NULL,
   y = NULL,
```

...
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_to_case = snakecase::to_sentence_case
)

Arguments

data          A data frame or tibble.
...           Other arguments passed to within a params list in `layer()`.
stat          A statistical transformation to use on the data. A snakecase character string of a
ggproto Stat subclass object minus the Stat prefix (e.g. "identity").
position      A position adjustment. A snakecase character string of a gproto Position subclass object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a gproto Position subclass object (e.g. ggplot2::position_identity()).
coord         A coordinate system. A coord_*() function that outputs a constructed gproto
               Coord subclass object (e.g. ggplot2::coord_cartesian()).
mode          A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates
               side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.
mode_orientation
               The orientation of plot, which affects the theme components that are removed
               from the mode. Either "x" or "y".
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group,
subgroup, label, text, sample
               An unquoted aesthetic variable.
mapping       A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily
               for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but
               can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks
               A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of
               breaks.
x_breaks_n, y_breaks_n, col_breaks_n
               A number of desired breaks for when *_breaks = NULL.
x_expand, y_expand
               Padding to the limits with the ggplot2::expansion() function, or a vector of
               length 2 (e.g. c(0, 0)).
x_expand_limits, y_expand_limits, col_expand_limits
               For a continuous variable, any values that the limits should encompass (e.g. 0).
               For a discrete scale, manipulate the data instead with forcats::fct expand.
x_label, y_label, col_label
Label for the axis or legend title. Use `+ ggplot2::labs(...) = NULL` for no title.

x_labels, y_labels, col_labels, facet_labels
A function that takes the breaks as inputs (e.g. `\(x\)` stringr::str_to_sentence(x) or `scales::label_*()`), or a vector of labels. (Note this must be named for facet_labels).

x_position, y_position
The position of the axis (i.e. "left", "right", "bottom" or "top"). If using `y_position = "top"` with a *_theme*, add `caption = ""` or `caption = "\n"`.

x_sec_axis, y_sec_axis
A secondary axis with `ggplot2::dup_axis()` or `ggplot2::sec_axis()`.

x_symmetric, y_symmetric
TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform
For a continuous scale, a transformation object (e.g. `scales::transform_log10()` or character string of this minus the transform_ prefix (e.g. "log10").

col_drop, facet_drop
For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow
The number of columns and rows in a legend guide.

col_legend_rev
TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

col_palette
A character vector of hex codes (or names) or a `scales::pal_*()` function.

col_palette_na
A hex code (or name) for the colour of NA values.

col_rescale
For a continuous variable, a `scales::rescale()` function.

col_steps
For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

facet_axes
Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_theme_*() may be needed.

facet_axis_labels
Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout
Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

facet_ncol, facet_nrow
The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

facet_scales
Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

facet_space
When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
gg_tile

Title string.
subtitle Subtitle string.
caption Caption title string.
label_to_case A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value
A ggplot object.

Examples
library(ggplot2)
library(dplyr)

set_blanket()

bind_rows(
  mtcars |> slice_min(order_by = mpg),
  mtcars |> slice_max(order_by = mpg)
) |> 
  tibble::rownames_to_column("model") |> 
  gg_text( 
    x = model,
    y = mpg,
    col = mpg,
    label = model,
    y_expand_limits = 0,
    y_label = "Miles per gallon",
    col_palette = c(orange, "white", teal),
  )

Description
Create a tile plot with a wrapper around ggplot2::ggplot() + geom_tile().

Usage

   gg_tile( 
     data = NULL,
     ..., 
     stat = "identity",
     position = "identity",
     coord = ggplot2::coord_cartesian(clip = "off"),
   )
mode = NULL,
mode_orientation = NULL,
x = NULL,
xmin = NULL,
xmax = NULL,
xend = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
Arguments

data

A data frame or tibble.

...  Other arguments passed to within a params list in layer().

stat

A statistical transformation to use on the data. A snakecase character string of a
ggproto Stat subclass object minus the Stat prefix (e.g. "identity").

position

A position adjustment. A snakecase character string of a ggproto Position sub-
class object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).

coord

A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).

mode

A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.

mode_orientation

The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".

x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group,
subgroup, label, text, sample

An unquoted aesthetic variable.

mapping

A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.

x_breaks, y_breaks, col_breaks

A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y_breaks_n, col_breaks_n
A number of desired breaks for when \_*\_breaks = NULL\_.

x_expand, y_expand
Padding to the limits with the \texttt{ggplot2::expansion()} function, or a vector of length 2 (e.g. \texttt{c(0, 0)}).

x_expansions, y_expansions, col_expansions
For a continuous variable, any values that the limits should encompass (e.g. \texttt{0}). For a discrete scale, manipulate the data instead with \texttt{forcats::fct_expand}.

x_label, y_label, col_label
Label for the axis or legend title. Use \texttt{+ ggplot2::labs(... = NULL)} for no title.

x_labels, y_labels, col_labels, facet_labels
A function that takes the breaks as inputs (e.g. \texttt{\(x\) stringr::str_to_sentence(x)} or \texttt{scales::label_*()}) or a vector of labels. (Note this must be named for \texttt{facet_labels}).

x_position, y_position
The position of the axis (i.e. "left", "right", "bottom" or "top"). If using \texttt{y_position = "top"} with a \_*\_mode_\_* theme, add \texttt{caption = ""} or \texttt{caption = "\n"}.

x_sec_axis, y_sec_axis
A secondary axis with \texttt{ggplot2::dup_axis()} or \texttt{ggplot2::sec_axis()}.

x_symmetric, y_symmetric
TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform
For a continuous scale, a transformation object (e.g. \texttt{scales::transform_log10()}) or character string of this minus the \texttt{transform_} prefix (e.g. "log10").

col_drop, facet_drop
For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow
The number of columns and rows in a legend guide.

col_legend_rev
TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

col_palette
A character vector of hex codes (or names) or a \texttt{scales::pal_*()} function.

col_pallete_na
A hex code (or name) for the colour of NA values.

col_rescale
For a continuous variable, a \texttt{scales::rescale()} function.

col_steps
For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

facet_axes
Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes \texttt{+ \_*\_mode_\_*()} may be needed.

facet_axis_labels
Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout
Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
gg_violin

`facet_nrow, facet_nrow`  
The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

`facet_scales`  
Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

`facet_space`  
When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

`title`  
Title string.

`subtitle`  
Subtitle string.

`caption`  
Caption title string.

`label_to_case`  
A function to format the default `x_label`, `y_label` and `col_label` of unlabelled variables. Defaults to `snakecase::to_sentence_case`.

Value

A ggplot object.

Examples

```r
library(ggplot2)
library(dplyr)
library(palmerpenguins)

set_blanket()

penguins |>
  group_by(species, sex) |>
  summarise(across(flipper_length_mm, \(x) mean(x, na.rm = TRUE))) |>
  gg_tile(
    x = sex,
    y = species,
    col = flipper_length_mm,
  )
```

---

**gg_violin**  
*Violin ggplot*

Description

Create a violin plot with a wrapper around `ggplot2::ggplot() + geom_violin()`.
Usage

```r
gg_violin(
  data = NULL,
  ..., 
  stat = "ydensity",
  position = "dodge",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_expand_limits = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
  x_symmetric = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_breaks_n = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_label = NULL,
  y_labels = NULL,
  y_position = "left",
  y_sec_axis = ggplot2::waiver(),
  y_symmetric = NULL,
  y_transform = NULL,
  col_breaks = NULL,
)
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_to_case = snakecase::to_sentence_case
)

Arguments

- **data**: A data frame or tibble.
- **...**: Other arguments passed to within a params list in layer().
- **stat**: A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. "identity").
- **position**: A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
- **coord**: A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).
- **mode**: A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.
- **mode_orientation**: The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".
- **x, ymin, xmin, xend, y, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample**: An unquoted aesthetic variable.
mapping A set of additional aesthetic mappings in \texttt{ggplot2::aes()}. Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.

\texttt{x_breaks, y_breaks, col_breaks}

A \texttt{scales::breaks_*} function (e.g. \texttt{scales::breaks_*()}) or a vector of breaks.

\texttt{x_breaks_n, y_breaks_n, col_breaks_n}

A number of desired breaks for when \texttt{*_breaks = NULL}.

\texttt{x_expand, y_expand}

Padding to the limits with the \texttt{ggplot2::expansion()} function, or a vector of length 2 (e.g. \texttt{c(0, 0)}).

\texttt{x_expand_limits, y_expand_limits, col_expand_limits}

For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with \texttt{forcats::fct_expand}.

\texttt{x_label, y_label, col_label}

Label for the axis or legend title. Use \texttt{+ ggplot2::labs(... = NULL)} for no title.

\texttt{x_labels, y_labels, col_labels, facet_labels}

A function that takes the breaks as inputs (e.g. \texttt{\( \backslash (x) \)} \texttt{stringr::str_to_sentence(x)} or \texttt{scales::label_*()}) or a vector of labels. (Note this must be named for \texttt{facet_labels}).

\texttt{x_position, y_position}

The position of the axis (i.e. "left", "right", "bottom" or "top"). If using \texttt{y_position = "top"} with a \texttt{*_mode_*} theme, add \texttt{caption = ""} or \texttt{caption = "\n"}.

\texttt{x_sec_axis, y_sec_axis}

A secondary axis with \texttt{ggplot2::dup_axis()} or \texttt{ggplot2::sec_axis()}. 

\texttt{x_symmetric, y_symmetric}

\texttt{TRUE} or \texttt{FALSE} of whether a symmetric scale.

\texttt{x_transform, y_transform, col_transform}

For a continuous scale, a transformation object (e.g. \texttt{scales::transform_log10()}) or character string of this minus the \texttt{transform_*} prefix (e.g. "log10").

\texttt{col_drop, facet_drop}

For a discrete variable, \texttt{FALSE} or \texttt{TRUE} of whether to drop unused levels.

\texttt{col_legend_ncol, col_legend_nrow}

The number of columns and rows in a legend guide.

\texttt{col_legend_rev}

\texttt{TRUE} or \texttt{FALSE} of whether to reverse the elements of a legend guide. Defaults to \texttt{FALSE}.

\texttt{col_palette, col_palette_na}

A character vector of hex codes (or names) or a \texttt{scales::pal_*()} function. A hex code (or name) for the colour of NA values.

\texttt{col_rescale}

For a continuous variable, a \texttt{scales::rescale()} function.

\texttt{col_steps}

For a continuous variable, \texttt{TRUE} or \texttt{FALSE} of whether to colour in steps. Defaults to \texttt{FALSE}.

\texttt{facet_axes}

Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + \texttt{*_mode_*()} may be needed.
facet_axis_labels
Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout
Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

facet_ncol, facet_nrow
The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

facet_scales
Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

facet_space
When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title
Title string.

subtitle
Subtitle string.

caption
Caption title string.

label_to_case
A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value
A ggplot object.

Examples

library(ggplot2)
library(dplyr)
library(palmerpenguins)

set_blanket()

penguins |>
third::drop_na(sex) |>
  gg_violin(
    x = species,
    y = body_mass_g,
    col = sex,
  )
grey

Description
A grey colour.

Usage
grey

Value
A character vector.

Examples
scales::show_col(grey)

jumble

Description
A discrete palette that is relatively colour-blind safe.

Usage
jumble
teal
orange
navy
red
pink
purple

Value
A character vector.
**lightness**

**Examples**

colorspace::swatchplot(c(jumble, grey), cvd = TRUE)

---

**lightness**

*Mode colour and linewidth defaults*

**Description**

(lightness and darkness) are vectors of 3 colours used in the *_.mode._* themes for the text, axis.line (and axis.ticks), panel.grid, panel.background and plot.background etc.

linenwidthness is a vector of 2 integers used in the *_.mode._* themes for the linewidth of the axis.line (axis.ticks and legend.ticks) and panel.grid theme elements.

**Usage**

lightness
darkness
linewidthness

**Value**

A character vector.

**Examples**

colorspace::swatchplot(c(lightness, darkness), ncol = 3)

---

**light_mode_r**

*Light mode theme family*

**Description**

A dark mode family of functions:

- light_mode_r() with legend on right
- light_mode_t() with legend on top
- light_mode_b() with legend on bottom
Usage

light_mode_r(
  ..., 
  base_size = 11, 
  base_family = "", 
  base_colour = "#121B24FF", 
  axis_line_colour = "#121B24FF", 
  axis_line_linewidth = 0.33, 
  axis_ticks_colour = axis_line_colour, 
  axis_ticks_linewidth = axis_line_linewidth, 
  panel_grid_colour = "#F6F8FAFF", 
  panel_grid_linewidth = 1.33, 
  panel_background_fill = "#FFFFFF", 
  plot_background_fill = "#FFFFFF", 
  legend_axis_line_colour = plot_background_fill, 
  legend_axis_line_linewidth = 0.33, 
  legend_background_fill = plot_background_fill, 
  legend_key_fill = plot_background_fill, 
  legend_ticks_colour = legend_axis_line_colour, 
  legend_ticks_linewidth = legend_axis_line_linewidth, 
  legend_ticks_length = ggplot2::rel(c(0.175, 0))
)

light_mode_t(
  ..., 
  base_size = 11, 
  base_family = "", 
  base_colour = "#121B24FF", 
  axis_line_colour = "#121B24FF", 
  axis_line_linewidth = 0.33, 
  axis_ticks_colour = axis_line_colour, 
  axis_ticks_linewidth = axis_line_linewidth, 
  panel_grid_colour = "#F6F8FAFF", 
  panel_grid_linewidth = 1.33, 
  panel_background_fill = "#FFFFFF", 
  plot_background_fill = "#FFFFFF", 
  legend_axis_line_colour = plot_background_fill, 
  legend_axis_line_linewidth = 0.33, 
  legend_background_fill = plot_background_fill, 
  legend_key_fill = plot_background_fill, 
  legend_ticks_colour = legend_axis_line_colour, 
  legend_ticks_linewidth = legend_axis_line_linewidth, 
  legend_ticks_length = ggplot2::rel(c(0.175, 0))
)

light_mode_b(
  ..., 
  base_size = 11, 

base_family = "",  
base_colour = "#121B24FF",  
axis_line_colour = "#121B24FF",  
axis_line_linewidth = 0.33,  
axis_ticks_colour = axis_line_colour,  
axis_ticks_linewidth = axis_line_linewidth,  
panel_grid_colour = "#F6F8FAFF",  
panel_grid_linewidth = 1.33,  
panel_background_fill = "#FFFFFF",  
plot_background_fill = "#FFFFFF",  
legend_axis_line_colour = plot_background_fill,  
legend_axis_line_linewidth = 0.33,  
legend_background_fill = plot_background_fill,  
legend_key_fill = legend_axis_line_colour,  
legend_ticks_colour = legend_axis_line_colour,  
legend_ticks_linewidth = legend_axis_line_linewidth,  
legend_ticks_length = ggplot2::rel(c(0.175, 0))
)

Arguments

... Provided to force user argument naming etc.

base_size The base size of the text theme element. Defaults to 11.
base_family The base family of the text theme element. Defaults to "".
base_colour The base colour of the text theme element.
axis_line_colour The colour of the axis.line theme element.
axis_line_linewidth The linewidth of the axis.line theme element.
axis_ticks_colour The colour of the axis.ticks theme element.
axis_ticks_linewidth The linewidth of the axis.ticks theme element.
panel_grid_colour The colour of the panel.grid theme element.
panel_grid_linewidth The linewidth of the panel.grid theme element.
panel_background_fill The fill (and colour) of the panel.background theme element.
plot_background_fill The fill (and colour) of the plot.background theme element.
legend_axis_line_colour The colour of the legend.axis.line theme element.
legend_axis_line_linewidth The linewidth of the legend.axis.line theme element.
legend_background_fill The fill (and colour) of the legend.background theme element.
legend_key_fill
   The fill (and colour) of the legend.key theme element.

legend_ticks_colour
   The colour of the legend.ticks theme element.

legend_ticks_linewidth
   The linewidth of the legend.ticks theme element.

legend_ticks_length
   The legend.ticks.length theme element.

Value

A ggplot theme.

Examples

library(palmerpenguins)
library(ggplot2)

set_blanket()

penguins |> 
  gg_point(
    x = flipper_length_mm,
    y = body_mass_g,
    col = species,
    mode = light_mode_r()
  )

penguins |> 
  gg_point(
    x = flipper_length_mm,
    y = body_mass_g,
    col = species,
    mode = light_mode_t()
  )

penguins |> 
  gg_point(
    x = flipper_length_mm,
    y = body_mass_g,
    col = species,
    mode = light_mode_b()
  )
set_blanket

Description

Add theme components to a mode used outside of a gg_* context

• mode_orientation_to_x() Orientate the plot to the x axis.
• mode_orientation_to_y() Orientate the plot to the y axis.

Usage

mode_orientation_to_x()

mode_orientation_to_y()

Value

ggplot2 theme components.

Examples

library(ggplot2)
library(palmerpenguins)

penguins |>
  ggplot() +
  geom_point(aes(x = flipper_length_mm, y = body_mass_g)) +
  light_mode_r() +
  mode_orientation_to_x()

penguins |>
  ggplot() +
  geom_bar(aes(y = island)) +
  light_mode_r() +
  mode_orientation_to_y()

---

set_blanket

Set a style

Description

Set a style by setting:

• the mode
• geom defaults
• col_palettes for discrete, continuous and ordinal scales.

Alternatively, use the weave_* functions to only apply a subset of these.
set_blanket()

Arguments

... Provided to force user argument naming etc.

mode A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates
gg_* side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.

colour A default hex colour for the colour of geoms without a more specific colour_* argument.

colour_text A default hex colour for the colour of the "text" geom.

colour_label A default hex colour for the colour of the "label" geom.

colour_reference_line A default hex colour for the colour of the "hline", "vline", and "abline" geoms.

colour_curve A default hex colour for the colour of the "curve" geom.

fill A default hex colour for the fill of geoms without a more specific fill_* argument.

fill_label A default hex colour for the fill of the "label" geom.

alpha A default alpha for geoms without a more specific alpha_* argument.

alpha_area A default alpha for the "area" geom.

alpha_bar A default alpha for the "bar" geom.

alpha_boxplot A default alpha for the "boxplot" geom.

alpha_crossbar A default alpha for the "crossbar" geom.

alpha_density A default alpha for the "density" geom.

alpha_label A default alpha for the "label" geom.

alpha_polygon A default alpha for the "polygon" geom.

alpha_rect A default alpha for the "rect" geom.

alpha_ribbon A default alpha for the "ribbon" geom.

alpha_smooth A default alpha for the "smooth" geom.

alpha_tile A default alpha for the "tile" geom.

alpha_violin A default alpha for the "violin" geom.

alpha_recursive A default alpha applied to all geoms.

linewidth A default linewidth for geoms.

linewidth_reference_line A default linewidth for the "hline", "vline", and "abline" geoms.

linewidth_curve A default linewidth for the "curve" geom.

size_point A default size for the "point" geom.

size_pointrange A default size for the "pointrange" geom.

size_sf A default size for the "sf" geom.

size_text A default size for the "text" geom.

size_label A default size for the "label" geom.

family_text A default family for the "text" geom.

family_label A default family for the "text" geom.
col_pallete_d  For a discrete scale, a character vector of hex codes.
col_pallete_na_d  For a discrete scale, a hex code.
col_pallete_c  For a continuous scale, a character vector of hex codes.
col_pallete_na_c  For a continuous scale, a hex code.
col_pallete_o  For an ordinal scale, a scales::pal_*() function.
col_pallete_na_o  For an ordinal scale, a hex code.

theme  A ggplot2 theme that the gg_* function will add without side-effects. Note, the mode takes precedence, unless mode = NULL.

Value
A globally set style.

Examples
library(ggplot2)
library(ggblanket)
library(palmerpenguins)

set_blanket(
  mode = dark_mode_r(),
  colour = orange,
  annotation_colour = darkness[1],
)

penguins |>
  gg_point(
    x = flipper_length_mm,
    y = body_mass_g,
    x_breaks = scales::breaks_pretty(3),
  ) +
  geom_vline(xintercept = 200) +
  annotate("text", x = I(0.25), y = I(0.75), label = "Here")

penguins |>
  gg_histogram(
    x = flipper_length_mm,
    x_breaks = scales::breaks_pretty(3),
  ) +
  geom_vline(xintercept = 200) +
  annotate("text", x = I(0.75), y = I(0.75), label = "Here")
weave_col_palette_c  Set a continuous colour palette

Description
Set a continuous colour palette

Usage
weave_col_palette_c(
  col_palette_c = viridisLite::mako(n = 9, direction = -1),
  col_palette_c_na = "#988F88FF",
  ...  
)

Arguments
  col_palette_c  For a continuous scale, a character vector of hex codes. Use NULL for ggplot2 default.
  col_palette_c_na  For a continuous scale, a hex code.
  ...  Dots to support trailing commas etc.

weave_col_palette_d  Set a discrete colour palette

Description
Set a discrete colour palette

Usage
weave_col_palette_d(
  col_palette_d = jumble,
  col_palette_d_na = "#CDC5BFFF",
  ...  
)

Arguments
  col_palette_d  For a discrete scale, a character vector of hex codes. Use NULL for ggplot2 default.
  col_palette_d_na  For a discrete scale, a hex code.
  ...  Dots to support trailing commas etc.
weave_col_palette_o  

Set an ordinal colour palette

Description

Set an ordinal colour palette

Usage

weave_col_palette_o(
  col_palette_o = scales::pal_viridis(option = "G", direction = -1),
  col_palette_o_na = "#988F88FF"
)

Arguments

col_palette_o  For an ordinal scale, a scales::pal_*() function. Use NULL for ggplot2 default.

col_palette_o_na  

For an ordinal scale, a hex code.

weave_geom_defaults  

Set a series of geom defaults

Description

Update all geom defaults.

Usage

weave_geom_defaults(
  colour = "#357BA2FF",
  colour_text = "#121B24FF",
  colour_label = colour_text,
  colour_reference_line = colour_text,
  colour_curve = colour_reference_line,
  fill = colour,
  fill_label = colour_label,
  alpha = 1,
  alpha_area = 0.9,
  alpha_bar = 0.9,
  alpha_boxplot = 0.6,
  alpha_crossbar = 0.6,
  alpha_density = 0.6,
  alpha_label = 0.05,
alpha_polygon = 0.9,
alpha_rect = 0.9,
alpha_ribbon = 0.6,
alpha_smooth = 0.6,
alpha_tile = 0.9,
alpha_violin = 0.9,
alpha_recursive = NULL,
linewidth = 0.66,
linewidth_reference_line = 0.33,
linewidth_curve = linewidth_reference_line,
size_point = 1.5,
size_pointrange = 0.2,
size_sf = 1.5,
size_text = 11/2.835052,
size_label = size_text,
family_text = "",
family_label = family_text
)

Arguments

colour A default hex colour for the colour of geoms without a more specific colour_* argument.
colour_text A default hex colour for the colour of the "text" geom.
colour_label A default hex colour for the colour of the "label" geom.
colour_reference_line A default hex colour for the colour of the "hline", "vline" and "abline" geoms.
colour_curve A default hex colour for the colour of the "curve" geom.
fill A default hex colour for the fill of geoms without a more specific fill_* argument.
fill_label A default hex colour for the fill of the "label" geom.
alpha A default alpha for geoms without a more specific alpha_* argument.
alpha_area A default alpha for the "area" geom.
alpha_bar A default alpha for the "bar" geom.
alpha_boxplot A default alpha for the "boxplot" geom.
alpha_crossbar A default alpha for the "crossbar" geom.
alpha_density A default alpha for the "density" geom.
alpha_label A default alpha for the "label" geom.
alpha_polygon A default alpha for the "polygon" geom.
alpha_rect A default alpha for the "rect" geom.
alpha_ribbon A default alpha for the "ribbon" geom.
alpha_smooth A default alpha for the "smooth" geom.
alpha_tile A default alpha for the "tile" geom.
weave_mode

alpha_violin  A default alpha for the "violin" geom.
alpha_recursive
             A default alpha applied to all geoms.
linewidth    A default linewidth for geoms.
linewidth_reference_line
             A default linewidth for the the "hline", "vline" and "abline" geoms.
linewidth_curve
             A default linewidth for the the "curve" geom.
size_point   A default size for the "point" geom.
size_pointrange
             A default size for the "pointrange" geom.
size_sf      A default size for the "sf" geom.
size_text    A default size for the "text" geom.
size_label   A default size for the "label" geom.
family_text  A default family for the "text" geom.
family_label A default family for the "text" geom.

weave_mode  Set a mode

Description

Set a mode for the mode argument in gg_* functions.

Usage

weave_mode(mode = light_mode_r())

Arguments

mode  A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates
gg_* side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.
weave_theme

---

**weave_theme**  
*Set a theme (without side-effects)*

---

**Description**

Set a theme to be +ed on unmodified to gg_ functions. Note, the mode takes precedence, unless mode = NULL.

**Usage**

```
weave_theme(theme = light_mode_r() + mode_orientation_to_x())
```

**Arguments**

- **theme**  
  A ggplot2 theme that the gg_ function will add without side-effects. Use NULL for ggplot2 default.
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