Package 'ggblanket'

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Title Simplify 'ggplot2' Visualisation

Version 12.2.0

Description Simplify 'ggplot2' visualisation with 'ggblanket' wrapper functions.

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

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

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Contents

`aes_colour_contrast` *A colour aesthetic for 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 = "#FFFFFFFF")
```

Arguments

`...`	Provided to require argument naming, support trailing commas 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_dodge(preserve = "single"),
    width = 0.75,
```

```
    x_labels = \(x) str_to_sentence(x),
  ) +
  geom_text(
    mapping = aes_colour_contrast(),
    position = position_dodge(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_dodge(preserve = "single"),
    width = 0.75,
    x_labels = \(x) str_to_sentence(x),
    theme = dark_mode_r(),
  ) +
  geom_text(
   mapping = aes(label = n, !!!aes_colour_contrast(dark = darkness[3], light = darkness[1])),
    position = position_dodge(width = 0.75, preserve = "single"),
    vjust = 1.33,
    show.legend = FALSE,
  )
```

`annotate_axis_line` *Replace a axis line with an annotated segment*

Description

Replace a axis line with an annotated segment, so that geom features are in front of it.

Usage

```
annotate_axis_line(
  axis = "x",
  ...,
  x_position = "bottom",
  y_position = "left",
  colour = NULL,
  linewidth = NULL
)
```

Arguments

`axis`	The axis. Either "x" or "y"
`...`	Extra parameters passed to `ggplot2::annotate("segment", ...)`.

x_position	The position of the "x" axis, if applicable. Either "bottom" or "top".
y_position	The position of the "y" axis, if applicable. Either "left" or "right".
colour	The colour of the annotated segment.
linewidth	The linewidth of the annotated segment.

Value

A list of a annotate layer and theme elements.

Examples

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

set_blanket()

penguins |>
  add_row(
    flipper_length_mm = 175,
    body_mass_g = 2500,
    species = "Adelie",
  ) |>
  gg_blanket(
    x = flipper_length_mm,
    y = body_mass_g,
    col = species,
  ) +
  annotate_axis_line() +
  geom_point(size = 2.5)
```

---

blue *A blue colour*

Description

A blue colour.

Usage

```
blue
```

Value

A character vector.

Examples

```
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

```
dark_mode_r(
  ...,
  base_size = 11,
  base_family = "",
  base_colour = "#C8D7DFFF",
  axis_line_colour = "#C8D7DFFF",
  axis_line_linewidth = 0.25,
  axis_ticks_colour = axis_line_colour,
  axis_ticks_linewidth = axis_line_linewidth,
  axis_ticks_length = grid::unit(11/3, "pt"),
  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 = axis_line_linewidth,
  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))
)

dark_mode_t(
  ...,
  base_size = 11,
  base_family = "",
  base_colour = "#C8D7DFFF",
  axis_line_colour = "#C8D7DFFF",
  axis_line_linewidth = 0.25,
```

```
  axis_ticks_colour = axis_line_colour,
  axis_ticks_linewidth = axis_line_linewidth,
  axis_ticks_length = grid::unit(11/3, "pt"),
  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 = axis_line_linewidth,
  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))
)

dark_mode_b(
  ...,
  base_size = 11,
  base_family = "",
  base_colour = "#C8D7DFFF",
  axis_line_colour = "#C8D7DFFF",
  axis_line_linewidth = 0.25,
  axis_ticks_colour = axis_line_colour,
  axis_ticks_linewidth = axis_line_linewidth,
  axis_ticks_length = grid::unit(11/3, "pt"),
  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 = axis_line_linewidth,
  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))
)
```

Arguments

`...`	Provided to require argument naming, support trailing commas 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.

`axis_ticks_length`
: The length of the axis.ticks.length 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 theme element.

Value

A ggplot theme.legend.ticks.length

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,
   col = species,
   mode = dark_mode_t()
 )

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

---

gg_area *Area ggplot*

Description

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

Usage

```
gg_area(
  data = NULL,
  ...,
  stat = "align",
  position = "stack",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
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_* 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 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_case
: A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

---

gg_bar *Bar ggplot*

Description

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

Usage

```
gg_bar(
  data = NULL,
  ...,
  stat = "count",
  position = "stack",
```

```
coord = ggplot2::coord_cartesian(clip = "off"),
theme = NULL,
theme_orientation = NULL,
theme_axis_line_rm = NULL,
theme_axis_ticks_rm = NULL,
theme_panel_grid_rm = NULL,
blend = 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_case = 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()`).
`theme`	A ggplot2 theme (e.g. `light_mode_t()` or `dark_mode_r()`).
`theme_orientation`	The orientation of plot, which affects the theme components that are removed. Either `"x"` or `"y"`.
`theme_axis_line_rm`	`TRUE` or `FALSE` of whether to remove the relevant axis line per the `theme_orientation` of the plot.
`theme_axis_ticks_rm`	`TRUE` or `FALSE` of whether to remove the relevant axis ticks per the `theme_orientation` of the plot.

theme_panel_grid_rm
: TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.

blend
: The blending mode per ggblend::blend() (e.g. "multiply").

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_* 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 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_case	A function to format the 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"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()).

theme — A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).

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

theme_axis_line_rm — TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.

theme_axis_ticks_rm — TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.

theme_panel_grid_rm — TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.

blend — The blending mode per ggblend::blend() (e.g. "multiply").

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_* 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 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_case
: A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

---

gg_blanket *Blanket ggplot*

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

```
gg_blanket(
  data = NULL,
  ...,
  geom = "blank",
  stat = "identity",
  position = "identity",
  coord = NULL,
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()`).
`theme`	A ggplot2 theme (e.g. `light_mode_t()` or `dark_mode_r()`).
`theme_orientation`	The orientation of plot, which affects the theme components that are removed. Either `"x"` or `"y"`.
`theme_axis_line_rm`	`TRUE` or `FALSE` of whether to remove the relevant axis line per the `theme_orientation` of the plot.
`theme_axis_ticks_rm`	`TRUE` or `FALSE` of whether to remove the relevant axis ticks per the `theme_orientation` of the plot.
`theme_panel_grid_rm`	`TRUE` or `FALSE` of whether to remove the relevant panel grid per the `theme_orientation` of the plot.
`blend`	The blending mode per `ggblend::blend()` (e.g. "multiply").
`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_* 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 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_case
: A function to format the 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_blanket(
    geom = "violin",
    stat = "ydensity",
    position = "dodge",
    x = species,
    y = body_mass_g,
    col = sex,
  )
```

---

gg_boxplot *Boxplot ggplot*

Description

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

Usage

```
gg_boxplot(
  data = NULL,
  ...,
  stat = "boxplot",
  position = "dodge2",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()`).
`theme`	A ggplot2 theme (e.g. `light_mode_t()` or `dark_mode_r()`).
`theme_orientation`	The orientation of plot, which affects the theme components that are removed. Either `"x"` or `"y"`.

theme_axis_line_rm
: TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.

theme_axis_ticks_rm
: TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.

theme_panel_grid_rm
: TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.

blend
: The blending mode per ggblend::blend() (e.g. "multiply").

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_* 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 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_case
: A function to format the 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,
  blend = "multiply",
)
```

---

gg_col *Col ggplot*

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"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
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_*` 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 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_case
: A function to format the 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

```
gg_contour(
  data = NULL,
  ...,
  stat = "contour",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()`).
`theme`	A ggplot2 theme (e.g. `light_mode_t()` or `dark_mode_r()`).
`theme_orientation`	The orientation of plot, which affects the theme components that are removed. Either `"x"` or `"y"`.
`theme_axis_line_rm`	`TRUE` or `FALSE` of whether to remove the relevant axis line per the `theme_orientation` of the plot.
`theme_axis_ticks_rm`	`TRUE` or `FALSE` of whether to remove the relevant axis ticks per the `theme_orientation` of the plot.
`theme_panel_grid_rm`	`TRUE` or `FALSE` of whether to remove the relevant panel grid per the `theme_orientation` of the plot.
`blend`	The blending mode per `ggblend::blend()` (e.g. "multiply").
`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_* 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 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_case — A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

---

gg_contour_filled *Contour_filled ggplot*

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"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()`).
`theme`	A ggplot2 theme (e.g. `light_mode_t()` or `dark_mode_r()`).
`theme_orientation`	The orientation of plot, which affects the theme components that are removed. Either `"x"` or `"y"`.

theme_axis_line_rm
: TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.

theme_axis_ticks_rm
: TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.

theme_panel_grid_rm
: TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.

blend
: The blending mode per ggblend::blend() (e.g. "multiply").

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_* 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 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_case
: A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

faithfuld |>
  gg_contour_filled(
```

```
  x = waiting,
  y = eruptions,
  z = density,
  bins = 8,
)
```

---

gg_crossbar *Crossbar ggplot*

Description

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"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
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_*` 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 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_case
: A function to format the 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(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_crossbar(
    x = trt,
    y = resp,
    ymin = lower,
    ymax = upper,
    col = group,
    width = 0.5,
    x_label = "Treatment",
    y_label = "Response",
    blend = "multiply",
  )
```

---

gg_density *Density ggplot*

Description

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

Usage

```
gg_density(
  data = NULL,
  ...,
  stat = "density",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
```

```
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").

`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_*` 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 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_case A function to format the 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_density(
    x = flipper_length_mm,
    col = species,
    blend = "multiply",
  )
```

gg_density_2d *Density_2d ggplot*

Description

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

Usage

```
gg_density_2d(
  data = NULL,
  ...,
  stat = "density_2d",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()).

theme
: A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).

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

theme_axis_line_rm
: TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.

theme_axis_ticks_rm
: TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.

theme_panel_grid_rm
: TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.

blend
: The blending mode per ggblend::blend() (e.g. "multiply").

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_* 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 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_case
: A function to format the 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(
    x = waiting,
    y = eruptions,
    bins = 8,
    contour = TRUE,
  )
```

---

gg_density_2d_filled *Density_2d_filled ggplot*

Description

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

Usage

```
gg_density_2d_filled(
  data = NULL,
  ...,
  stat = "density_2d_filled",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
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_* 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 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_case	A function to format the 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(
    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

```
gg_errorbar(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
```

```
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.

theme_panel_grid_rm
: TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.

blend
: The blending mode per ggblend::blend() (e.g. "multiply").

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_* 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 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_case A function to format the 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(
  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",
)
```

---

gg_freqpoly *Freqpoly ggplot*

Description

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

Usage

```
gg_freqpoly(
  data = NULL,
  ...,
  stat = "bin",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
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_* 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 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_case`	A function to format the 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*

Description

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

Usage

```
gg_function(
  data = NULL,
  ...,
  stat = "function",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
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_*` 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 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_case
: A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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,
)
```

---

gg_hex *Hex ggplot*

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"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()`).
`theme`	A ggplot2 theme (e.g. `light_mode_t()` or `dark_mode_r()`).
`theme_orientation`	The orientation of plot, which affects the theme components that are removed. Either `"x"` or `"y"`.

theme_axis_line_rm
: TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.

theme_axis_ticks_rm
: TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.

theme_panel_grid_rm
: TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.

blend
: The blending mode per ggblend::blend() (e.g. "multiply").

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_* 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 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_case
: A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

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

set_blanket()

diamonds |>
```

```
gg_hex(
  x = carat,
  y = price,
)
```

`gg_histogram` *Histogram ggplot*

Description

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

Usage

```
gg_histogram(
  data = NULL,
  ...,
  stat = "bin",
  position = "stack",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
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_*` 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 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_case
: A function to format the 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"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
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_* 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 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_case
: A function to format the 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

```
gg_label(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()`).
`theme`	A ggplot2 theme (e.g. `light_mode_t()` or `dark_mode_r()`).
`theme_orientation`	The orientation of plot, which affects the theme components that are removed. Either `"x"` or `"y"`.

theme_axis_line_rm
: TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.

theme_axis_ticks_rm
: TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.

theme_panel_grid_rm
: TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.

blend
: The blending mode per ggblend::blend() (e.g. "multiply").

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_* 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 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_case
: A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()
set_geom_font()

bind_rows(
```

```
  mtcars |> slice_min(order_by = mpg),
  mtcars |> slice_max(order_by = mpg)
) |>
  tibble::rownames_to_column("themel") |>
  gg_label(
    x = themel,
    y = mpg,
    label = themel,
    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

```
gg_line(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
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_* 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 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_case	A function to format the 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"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
```

```
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").

`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_*` 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 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_case A function to format the 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(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",
  )
```

gg_path *Path ggplot*

Description

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

Usage

```
gg_path(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()).

theme
: A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).

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

theme_axis_line_rm
: TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.

theme_axis_ticks_rm
: TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.

theme_panel_grid_rm
: TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.

blend
: The blending mode per ggblend::blend() (e.g. "multiply").

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_* 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 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_case
: A function to format the 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",
  )
```

---

gg_point *Point ggplot*

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"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
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_* 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 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_case	A function to format the 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

```
gg_pointrange(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
```

```
theme_orientation = NULL,
theme_axis_line_rm = NULL,
theme_axis_ticks_rm = NULL,
theme_panel_grid_rm = NULL,
blend = 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_case = 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.

theme_panel_grid_rm
: TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.

blend
: The blending mode per ggblend::blend() (e.g. "multiply").

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_* 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 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_case A function to format the 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(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",
)
```

---

gg_polygon *Polygon ggplot*

Description

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

Usage

```
gg_polygon(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()`).
`theme`	A ggplot2 theme (e.g. `light_mode_t()` or `dark_mode_r()`).
`theme_orientation`	The orientation of plot, which affects the theme components that are removed. Either `"x"` or `"y"`.
`theme_axis_line_rm`	`TRUE` or `FALSE` of whether to remove the relevant axis line per the `theme_orientation` of the plot.
`theme_axis_ticks_rm`	`TRUE` or `FALSE` of whether to remove the relevant axis ticks per the `theme_orientation` of the plot.
`theme_panel_grid_rm`	`TRUE` or `FALSE` of whether to remove the relevant panel grid per the `theme_orientation` of the plot.
`blend`	The blending mode per `ggblend::blend()` (e.g. "multiply").
`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_* 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 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_case	A function to format the 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, 1.5, 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,
  )
```

gg_qq *Qq ggplot*

Description

Create a qq ggplot with a wrapper around ggplot2::ggplot() + geom_qq().

Usage

```
gg_qq(
  data = NULL,
  ...,
  stat = "qq",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()).

theme
: A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).

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

theme_axis_line_rm
: TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.

theme_axis_ticks_rm
: TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.

theme_panel_grid_rm
: TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.

blend
: The blending mode per ggblend::blend() (e.g. "multiply").

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_* 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 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_case`
: A function to format the 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_qq(
    sample = body_mass_g,
    facet = species,
    coord = coord_cartesian(clip = "on"),
  ) +
  geom_qq_line()
```

---

gg_quantile *Quantile ggplot*

Description

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

Usage

```
gg_quantile(
  data = NULL,
  ...,
  stat = "quantile",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
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_* 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 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_case	A function to format the 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,
    )
}
```

---

gg_raster *Raster ggplot*

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"),
  theme = NULL,
```

```
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()`).
`theme`	A ggplot2 theme (e.g. `light_mode_t()` or `dark_mode_r()`).
`theme_orientation`	The orientation of plot, which affects the theme components that are removed. Either `"x"` or `"y"`.
`theme_axis_line_rm`	`TRUE` or `FALSE` of whether to remove the relevant axis line per the `theme_orientation` of the plot.
`theme_axis_ticks_rm`	`TRUE` or `FALSE` of whether to remove the relevant axis ticks per the `theme_orientation` of the plot.

theme_panel_grid_rm
: TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.

blend
: The blending mode per ggblend::blend() (e.g. "multiply").

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_* 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 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_case A function to format the 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,
  )
```

gg_rect *Rect ggplot*

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"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()).

theme
: A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).

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

theme_axis_line_rm
: TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.

theme_axis_ticks_rm
: TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.

theme_panel_grid_rm
: TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.

blend
: The blending mode per ggblend::blend() (e.g. "multiply").

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_* 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 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_case
: A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
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,
  )
```

---

gg_ribbon *Ribbon ggplot*

Description

Create a ribbon ggplot with a wrapper around ggplot2::ggplot() + geom_ribbon()

Usage

```
gg_ribbon(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()`).
`theme`	A ggplot2 theme (e.g. `light_mode_t()` or `dark_mode_r()`).
`theme_orientation`	The orientation of plot, which affects the theme components that are removed. Either `"x"` or `"y"`.
`theme_axis_line_rm`	`TRUE` or `FALSE` of whether to remove the relevant axis line per the `theme_orientation` of the plot.
`theme_axis_ticks_rm`	`TRUE` or `FALSE` of whether to remove the relevant axis ticks per the `theme_orientation` of the plot.
`theme_panel_grid_rm`	`TRUE` or `FALSE` of whether to remove the relevant panel grid per the `theme_orientation` of the plot.
`blend`	The blending mode per `ggblend::blend()` (e.g. "multiply").
`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_* 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 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_case
: A function to format the 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,
    x_labels = \(x) x,
  )
```

---

gg_ribbon_line *Ribbon line ggplot*

Description

Create a ribbon line ggplot with a wrapper around ggplot2::ggplot() + geom_smooth(stat = "identity", ...).

Usage

```
gg_ribbon_line(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()`).
`theme`	A ggplot2 theme (e.g. `light_mode_t()` or `dark_mode_r()`).
`theme_orientation`	The orientation of plot, which affects the theme components that are removed. Either `"x"` or `"y"`.

theme_axis_line_rm
: TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.

theme_axis_ticks_rm
: TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.

theme_panel_grid_rm
: TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.

blend
: The blending mode per ggblend::blend() (e.g. "multiply").

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_* 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 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_case
: A function to format the 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_line(
    x = year,
    y = level,
    ymin = level_min,
    ymax = level_max,
    blend = "multiply",
    se = TRUE,
  )
```

---

gg_rug *Rug ggplot*

Description

Create a rug ggplot with a wrapper around ggplot2::ggplot() + geom_rug().

Usage

```
gg_rug(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
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_* 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 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_case`	A function to format the 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_rug(
    x = flipper_length_mm,
    y = body_mass_g,
    col = species,
  )
```

`gg_segment` *Segment ggplot*

Description

Create a segment ggplot with a wrapper around `ggplot2::ggplot()` + geom_segment().

Usage

```
gg_segment(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
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_* 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 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_case
: A function to format the 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,
  )
```

---

gg_sf *Sf ggplot*

Description

Create a blank ggplot with a wrapper around ggplot2::ggplot() + geom_sf().

Usage

```
gg_sf(
  data = NULL,
  ...,
  stat = "sf",
  position = "identity",
  coord = ggplot2::coord_sf(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()`).
`theme`	A ggplot2 theme (e.g. `light_mode_t()` or `dark_mode_r()`).
`theme_orientation`	The orientation of plot, which affects the theme components that are removed. Either `"x"` or `"y"`.

theme_axis_line_rm
: TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.

theme_axis_ticks_rm
: TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.

theme_panel_grid_rm
: TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.

blend
: The blending mode per ggblend::blend() (e.g. "multiply").

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_* 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 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_case
: A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
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

```
gg_smooth(
  data = NULL,
  ...,
  stat = "smooth",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
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_*` 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 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_case
: A function to format the 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,
    blend = "multiply",
  )
```

---

gg_step *Step ggplot*

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"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
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_* 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 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_case	A function to format the 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",
  )
```

---

gg_text *Text ggplot*

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"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()`).
`theme`	A ggplot2 theme (e.g. `light_mode_t()` or `dark_mode_r()`).
`theme_orientation`	The orientation of plot, which affects the theme components that are removed. Either `"x"` or `"y"`.

theme_axis_line_rm
: TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.

theme_axis_ticks_rm
: TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.

theme_panel_grid_rm
: TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.

blend
: The blending mode per ggblend::blend() (e.g. "multiply").

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_* 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 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_case
: A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()
set_geom_font()

bind_rows(
```

```
  mtcars |> slice_min(order_by = mpg),
  mtcars |> slice_max(order_by = mpg)
) |>
  tibble::rownames_to_column("themel") |>
  gg_text(
    x = themel,
    y = mpg,
    label = themel,
    y_expand_limits = 0,
    y_label = "Miles per gallon",
    col_palette = c(orange, "white", teal),
  )
```

---

gg_tile *Tile ggplot*

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"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
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_* 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 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_case	A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
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

```
gg_violin(
  data = NULL,
  ...,
  stat = "ydensity",
  position = "dodge",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
```

```
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = 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_case = 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()`).
`theme`	A ggplot2 theme (e.g. `light_mode_t()` or `dark_mode_r()`).
`theme_orientation`	The orientation of plot, which affects the theme components that are removed. Either `"x"` or `"y"`.
`theme_axis_line_rm`	`TRUE` or `FALSE` of whether to remove the relevant axis line per the `theme_orientation` of the plot.
`theme_axis_ticks_rm`	`TRUE` or `FALSE` of whether to remove the relevant axis ticks per the `theme_orientation` of the plot.
`theme_panel_grid_rm`	`TRUE` or `FALSE` of whether to remove the relevant panel grid per the `theme_orientation` of the plot.

blend The blending mode per ggblend::blend() (e.g. "multiply").

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_* 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 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_case — A function to format the 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) |>
  gg_violin(
    x = species,
    y = body_mass_g,
    col = sex,
  )
```

grey *A grey colour*

Description

A grey colour.

Usage

```
grey
```

Value

A character vector.

Examples

```
scales::show_col(grey)
```

jumble *The jumble palette*

Description

A discrete palette that is relatively colour-blind safe.

Usage

```
jumble

teal

orange

navy

red

pink

purple
```

Value

A character vector.

Examples

```
colorspace::swatchplot(c(jumble, grey), cvd = TRUE)
```

`label_every_nth` *Label every nth element*

Description

Label every nth element in a vector, and replace the rest with "".

Usage

```
label_every_nth(n = 2, offset = 0, ...)
```

Arguments

`n`	The increment of elements to hold as is. Defaults to `2`.
`offset`	An offset for which element to first hold. Defaults to `0`. Possible values are `-1` to `(n - 2)`
`...`	If numeric, arguments passed to the `scales::comma` function. Otherwise, arguments passed to `format`.

Value

A labelling function

Examples

```
label_every_nth()(scales::comma(seq(1000, 5000, 1000)))
label_every_nth()(lubridate::ymd(c("2021-01-01", "2022-01-01", "2023-01-01", "2024-01-01")))
label_every_nth()(LETTERS[1:12])

library(dplyr)
library(palmerpenguins)

set_blanket()

penguins |>
  mutate(across(sex, \(x) stringr::str_to_sentence(x))) |>
  gg_point(
    x = flipper_length_mm,
    y = body_mass_g,
    col = sex,
    x_labels = label_every_nth(),
    y_labels = label_every_nth(),
  )
```

lightness *Mode colour and linewidth defaults*

Description

`lightness` and `darkness` are vectors of 3 colours used in the `*_theme_*` themes for the for the text, axis.line (and axis.ticks), panel.grid, panel.background and plot.background etc.

`linewidthness` is a vector of 2 integers used in the `*_theme_*` 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

```
scales::show_col(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 = 0.25,
  axis_ticks_colour = axis_line_colour,
  axis_ticks_linewidth = axis_line_linewidth,
  axis_ticks_length = grid::unit(11/3, "pt"),
  panel_grid_colour = "#F6F8FAFF",
  panel_grid_linewidth = 1.33,
  panel_background_fill = "#FFFFFFFF",
  plot_background_fill = "#FFFFFFFF",
  legend_axis_line_colour = plot_background_fill,
  legend_axis_line_linewidth = axis_line_linewidth,
  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 = 0.25,
  axis_ticks_colour = axis_line_colour,
  axis_ticks_linewidth = axis_line_linewidth,
  axis_ticks_length = grid::unit(11/3, "pt"),
  panel_grid_colour = "#F6F8FAFF",
  panel_grid_linewidth = 1.33,
  panel_background_fill = "#FFFFFFFF",
  plot_background_fill = "#FFFFFFFF",
  legend_axis_line_colour = plot_background_fill,
  legend_axis_line_linewidth = axis_line_linewidth,
  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 = 0.25,
  axis_ticks_colour = axis_line_colour,
  axis_ticks_linewidth = axis_line_linewidth,
  axis_ticks_length = grid::unit(11/3, "pt"),
  panel_grid_colour = "#F6F8FAFF",
  panel_grid_linewidth = 1.33,
  panel_background_fill = "#FFFFFFFF",
  plot_background_fill = "#FFFFFFFF",
  legend_axis_line_colour = plot_background_fill,
  legend_axis_line_linewidth = axis_line_linewidth,
  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))
)
```

Arguments

`...`	Provided to require argument naming, support trailing commas 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.
`axis_ticks_length`	The length of the axis.ticks.length 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()
  )
```

`scale_x_symmetric` *Symmetric x continuous scale*

Description

Create a symmetric continuous x scale for ggplot2 plots. The scale ensures that limits set to the range of breaks with zero expand (where `symmetric = TRUE`). Note this scale should only be used in plots with geoms with `stat = "identity"`.

Usage

```
scale_x_symmetric(
  data = NULL,
  x = NULL,
  ...,
  breaks = NULL,
  breaks_n = 6,
  expand = NULL,
  expand_limits = NULL,
  labels = NULL,
  position = "bottom",
  sec_axis = ggplot2::waiver(),
  transform = "identity",
  symmetric = TRUE
)
```

Arguments

`data`	A data frame or tibble.
`x`	An unquoted variable.
`...`	Provided to force user argument naming etc.
`breaks`	A `scales::breaks_*` function (e.g. `scales::breaks_*()`), or a vector of breaks.
`breaks_n`	If `breaks = NULL`, the desired number of breaks.
`expand`	Padding to the limits with the `ggplot2::expansion()` function, or a vector of length 2 (e.g. `c(0, 0)`).
`expand_limits`	Any values that the limits should encompass (e.g. `0`).
`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.
`position`	The position of the axis (i.e. `"left"`, `"right"`, `"bottom"` or `"top"`).
`sec_axis`	A secondary axis created with `ggplot2::sec_axis()` or `ggplot2::dup_axis()`.
`transform`	A transformation object (e.g. `scales::transform_log10()`) or character string of this minus the `transform_` prefix (e.g. `"log10"`).
`symmetric`	`TRUE` or `FALSE` of whether a symmetric scale.

Value

A ggplot2 continuous x scale.

Examples

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

set_blanket()

penguins |>
  ggplot() +
  geom_jitter(aes(x = body_mass_g, y = species, colour = species)) +
  scale_x_symmetric(penguins, body_mass_g) +
  theme(axis.line.x = element_blank()) +
  theme(axis.ticks.x = element_blank()) +
  theme(panel.grid.major.y = element_blank()) +
  theme(axis.ticks.y = element_blank()) +
  coord_cartesian(clip = "off") +
  labs(x = "Body mass g", y = "Species", colour = "Species")
```

---

scale_y_symmetric *Symmetric y continuous scale*

Description

Create a symmetric continuous y scale for ggplot2 plots. The scale ensures that limits set to the range of breaks with zero expand (where `symmetric = TRUE`). Note this scale should only be used in plots with geoms with `stat = "identity"`. Symmetric y continuous scale

Usage

```
scale_y_symmetric(
  data = NULL,
  y = NULL,
  ...,
  breaks = NULL,
  breaks_n = 6,
  expand = NULL,
  expand_limits = NULL,
  labels = NULL,
  position = "left",
  sec_axis = ggplot2::waiver(),
  transform = "identity",
  symmetric = TRUE
)
```

Arguments

data	A data frame or tibble.
y	An unquoted variable.
...	Provided to force user argument naming etc.
breaks	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
breaks_n	If breaks = NULL, the desired number of breaks.
expand	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).
expand_limits	Any values that the limits should encompass (e.g. 0).
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.
position	The position of the axis (i.e. "left", "right", "bottom" or "top").
sec_axis	A secondary axis created with ggplot2::sec_axis() or ggplot2::dup_axis().
transform	A transformation object (e.g. scales::transform_log10()) or character string of this minus the transform_ prefix (e.g. "log10").
symmetric	TRUE or FALSE of whether a symmetric scale.

Value

A ggplot2 continuous y scale.

Examples

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

set_blanket()

penguins |>
  ggplot() +
  geom_point(aes(x = flipper_length_mm, y = body_mass_g, colour = species)) +
  scale_y_symmetric(penguins, body_mass_g) +
  theme(axis.line.y = element_blank()) +
  theme(axis.ticks.y = element_blank()) +
  theme(panel.grid.major.x = element_blank()) +
  coord_cartesian(clip = "off") +
  labs(x = "Flipper length mm", y = "Body mass g", colour = "Species")
```

`set_blanket` *Set the style*

Description

Set the style by setting:

1. the geom defaults, including the colour (and fill) of geoms
2. the colour (and fill) palettes (i.e. discrete, continuous and ordinal)
3. the theme, and how/what side-effects are to be applied
4. the function to apply to a unspecified/unlabelled `x_label`, `y_label`, `col_label` etc.

`set_geom_font()`, `set_geom_font()` and `set_geom_reference_line()` can be used to customise "text", "label", "abline, "vline" and "hline" geom defaults.

`ggplot2::update_geom_defaults()` can be used to further fine-tune geom defaults.

Usage

```
set_blanket(
  ...,
  colour = "#357BA2FF",
  col_palette_d = jumble,
  col_palette_c = viridisLite::mako(n = 9, direction = -1),
  col_palette_o = scales::pal_viridis(option = "G", direction = -1),
  col_palette_na_d = "#CDC5BFFF",
  col_palette_na_c = "#988F88FF",
  col_palette_na_o = "#988F88FF",
  theme = light_mode_r(),
  theme_orientation = NULL,
  theme_axis_line_rm = TRUE,
  theme_axis_ticks_rm = TRUE,
  theme_panel_grid_rm = TRUE,
  label_case = snakecase::to_sentence_case
)
```

Arguments

`...`	Provided to require argument naming, support trailing commas etc.
`colour`	For most geoms, a default hex code for the colour of geoms (i.e. geoms other than "text", "label", "hline", "vline" and "abline"). Note "fill" inherits from this argument.
`col_palette_d`	For a discrete scale, a character vector of hex codes.
`col_palette_c`	For a continuous scale, a character vector of hex codes.
`col_palette_o`	For an ordinal scale, a `scales::pal_*()` function.

col_palette_na_d
: For a discrete scale, a hex code.

col_palette_na_c
: For a continuous scale, a hex code.

col_palette_na_o
: For an ordinal scale, a hex code.

theme
: A ggplot2 theme (e.g. `light_mode_t()` or `dark_mode_r()`).

theme_orientation
: The orientation of plot, which affects the theme components that can be removed by the gg_* function. Either "x" or "y". Defaults to NULL, which lets the gg_* function guess it based on the data.

theme_axis_line_rm
: TRUE or FALSE of whether the gg_* function should remove the relevant axis line per the theme_orientation of the plot.

theme_axis_ticks_rm
: TRUE or FALSE of whether the gg_* function should remove the relevant axis ticks per the theme_orientation of the plot.

theme_panel_grid_rm
: TRUE or FALSE of whether the gg_* function should remove the relevant panel grid per the theme_orientation of the plot.

label_case
: A function to apply to a unspecified/unlabelled x_label, y_label, col_label etc. Defaults to snakecase::to_sentence_case.

Value

A globally set style.

Examples

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

set_blanket(
  theme = dark_mode_r(),
  colour = "#E7298AFF",
  col_palette_d = c("#1B9E77FF", "#D95F02FF", "#7570b3FF", "#E7298AFF",
                    "#66A61EFF", "#E6AB02FF", "#A6761DFF", "#666666FF"),
)

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

penguins |>
  gg_histogram(
    x = flipper_length_mm,
```

```
    col = species,
  )
```

`set_geom_font` *Set the text and label geom defaults*

Description

Update the "text" and "label" geom defaults. Note all other text is controlled by the theme.

Usage

```
set_geom_font(
  ...,
  colour = "#121B24FF",
  fill = "#FFFFFFFF",
  size = 11/2.835052,
  family = ""
)
```

Arguments

`...`	Provided to require argument naming, support trailing commas etc.
`colour`	A hex code.
`fill`	A hex code.
`size`	A size.
`family`	A family.

Examples

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

set_blanket(theme = dark_mode_r())
set_geom_font(colour = darkness[1])
set_geom_reference_line(colour = darkness[1])

penguins |>
  gg_point(
    x = flipper_length_mm,
    y = body_mass_g,
    x_breaks_n = 4,
  ) +
  geom_vline(xintercept = 200) +
  annotate("text", x = I(0.25), y = I(0.75), label = "Here")
```

`set_geom_reference_line` *Set the geom reference line defaults*

Description

Update the "hline", "vline", "abline", and "curve" geom defaults.

Usage

```
set_geom_reference_line(..., colour = "#121B24FF", linewidth = 0.25)
```

Arguments

`...`	Provided to require argument naming, support trailing commas etc.
`colour`	A hex code.
`linewidth`	A linewidth.

Examples

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

set_blanket(theme = dark_mode_r())
set_geom_font(colour = darkness[1])
set_geom_reference_line(colour = darkness[1])

penguins |>
  gg_point(
    x = flipper_length_mm,
    y = body_mass_g,
    x_breaks_n = 4,
  ) +
  geom_vline(xintercept = 200) +
  annotate("text", x = I(0.25), y = I(0.75), label = "Here")
```

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