Package 'ggblanket'

Title Simplify 'ggplot2' Visualisation

Version 12.4.0

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>

Depends R (>= 4.2.0)

Imports colorspace, dplyr (>= 1.0.4), farver, forcats, ggblend,
ggplot2 (>= 3.5.2), grid, hms (>= 0.5.0), labelled, lubridate
(>= 1.7.8), purrr, rlang (>= 1.1.0), scales (>= 1.3.0),
snakecase, stringr (>= 1.3.0), tidyr (>= 1.0.0), tidyselect (>=
1.2.0), viridisLite

Suggests spelling, hexbin, isoband, knitr, palmerpenguins, patchwork,
quantreg, rmarkdown, sf, testthat (>= 3.0.0), tibble, vdiffr,
viridis

VignetteBuilder knitr

Config/Needs/website concaveman, corrr, farver, ggbeeswarm, ggblend,
ggdensity, ggdist, ggeasy, ggforce, ggh4x, gghighlight,
ggnewscale, ggrepel, ggridges, ggpattern, glue, marquee,
paletteer, showtext, sysfonts

Config/testthat/edition 3

Encoding UTF-8

Language en-GB

RoxygenNote 7.3.2

NeedsCompilation no

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Repository CRAN

Date/Publication 2025-06-03 04:20:02 UTC

Contents

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aes_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_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_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_contrast(dark = darkness[3], light = darkness[1])),
    position = position_dodge(width = 0.75, preserve = "single"),
    vjust = 1.33,
    show.legend = FALSE,
  )
```

---

annotate_axis_line   *Annotated axis line 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()

d <- penguins |>
  add_row(
    flipper_length_mm = 175,
    body_mass_g = 2500,
    species = "Adelie",
  )

# axis line goes through geom
d |>
  gg_point(
    x = flipper_length_mm,
    y = body_mass_g,
    col = species,
  )

# axis line does not go through geom
d |>
  gg_blanket(
    x = flipper_length_mm,
    y = body_mass_g,
    col = species,
  ) +
  annotate_axis_line() +
  geom_point()
```

---

bind_each_all   *Bind each all.*

Description

Binds data to support plotting each category *and* all combined data.

Usage

```
bind_each_all(
  data,
  ...,
  name = "each_all",
  each = "Each",
  all = "All",
  all_after = Inf
)
```

Arguments

data	A data frame or tibble.
...	An unquoted variable.
name	A variable name. Defaults to each_all.
each	A string for the each value. Defaults to "Each".
all	A string for the all value. Defaults to "All".
all_after	A number for where the all value should be placed after. Use 0 for first or Inf for last. Defaults to Inf.

Value

A data frame or tibble

Examples

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

set_blanket()

penguins |>
  distinct(species)

penguins |>
  bind_each_all(species) |>
  distinct(species, each_all)
```

```
penguins |>
  bind_each_all(species) |>
  gg_jitter(
    x = species,
    y = body_mass_g,
  )

penguins |>
  bind_each_all(species) |>
  gg_jitter(
    x = species,
    y = body_mass_g,
    col = each_all,
    col_palette = c(blue, grey),
  ) +
  theme(legend.position = "none")

penguins |>
  bind_each_all(species) |>
  group_by(species, each_all) |>
  summarise(across(body_mass_g, \(x) mean(x, na.rm = TRUE))) |>
  gg_col(
    x = species,
    y = body_mass_g,
    col = each_all,
    col_palette = c(blue, grey),
    width = 0.5,
    y_label = "Average body mass g",
  ) +
  theme(legend.position = "none")

penguins |>
  bind_each_all(species, all = "All\nspecies") |>
  gg_jitter(
    x = species,
    y = body_mass_g,
    col = each_all,
    col_palette = c(blue, grey),
    facet = each_all,
    facet_layout = "grid",
    facet_scales = "free_x",
    facet_space = "free_x",
  ) +
  theme(legend.position = "none") +
  theme(strip.text.x = element_blank()) +
  labs(x = NULL)
```

| 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_limits_include = 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_limits_include = 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_limits_include = 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()](#)). (Or a list that includes 1. a theme and 2. a [ggplot2::labs()](#) function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include

> 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_limits_include = 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_limits_include = 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_limits_include = 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()). (Or a list that in-
                  cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU

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_limits_include, y_limits_include, col_limits_include
                  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_limits_include = 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_limits_include = 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_limits_include = 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()). (Or a list that includes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include

> 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_limits_include = 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_limits_include = 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_limits_include = 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()). (Or a list that includes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include

> 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_limits_include = 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_limits_include = 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_limits_include = 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()`). (Or a list that includes 1. a theme and 2. a `ggplot2::labs()` function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include	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_limits_include = 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_limits_include = 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_limits_include = 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()`). (Or a list that includes 1. a theme and 2. a `ggplot2::labs()` function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include
                 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_limits_include = 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_limits_include = 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_limits_include = 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()). (Or a list that includes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU

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_limits_include, y_limits_include, col_limits_include

                      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_limits_include = 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_limits_include = 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_limits_include = 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()`). (Or a list that includes 1. a theme and 2. a `ggplot2::labs()` function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include

>   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_limits_include = 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_limits_include = 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_limits_include = 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()`). (Or a list that includes 1. a theme and 2. a `ggplot2::labs()` function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include

    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_limits_include = 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_limits_include = 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_limits_include = 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()). (Or a list that includes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include	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_limits_include = 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_limits_include = 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_limits_include = 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()`). (Or a list that includes 1. a theme and 2. a `ggplot2::labs()` function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include
                   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_limits_include = 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_limits_include = 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_limits_include = 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()`). (Or a list that includes 1. a theme and 2. a `ggplot2::labs()` function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include

>   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_limits_include = 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_limits_include = 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_limits_include = 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()`). (Or a list that includes 1. a theme and 2. a `ggplot2::labs()` function. E.g. `list(light_mode_r(), labs(colour = NU`)

`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_limits_include, y_limits_include, col_limits_include`

> 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_limits_include = 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_limits_include = 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_limits_include = 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()). (Or a list that includes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include

> 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 direc-
                  tions, 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 propor-
                  tional 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,
  )
```

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_limits_include = 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_limits_include = 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_limits_include = 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()). (Or a list that in-
               cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU

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_limits_include, y_limits_include, col_limits_include
               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 direc-
    tions, 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 propor-
    tional 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_limits_include = qnorm(p = c(0.005, 0.995), mean = 0, sd = 5),
  y_limits_include = 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_limits_include = 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_limits_include = 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_limits_include = 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()](#)). (Or a list that includes 1. a theme and 2. a [ggplot2::labs()](#) function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include

> 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_limits_include = 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_limits_include = 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_limits_include = 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()`). (Or a list that includes 1. a theme and 2. a `ggplot2::labs()` function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include`
        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 direc-
                    tions, 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 propor-
                    tional 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_limits_include = 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_limits_include = 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_limits_include = 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()). (Or a list that includes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include

	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_limits_include = 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_limits_include = 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_limits_include = 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_limits_include = 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()). (Or a list that includes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include

            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()

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_limits_include = 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_limits_include = 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_limits_include = 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_limits_include = 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()). (Or a list that in-
                   cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU

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_limits_include, y_limits_include, col_limits_include
                   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_limits_include = 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_limits_include = 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_limits_include = 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_limits_include = 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()). (Or a list that includes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include

    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_limits_include = 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_limits_include = 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_limits_include = 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()`). (Or a list that includes 1. a theme and 2. a `ggplot2::labs()` function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include
                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_limits_include = 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_limits_include = 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_limits_include = 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_limits_include = 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()`). (Or a list that includes 1. a theme and 2. a `ggplot2::labs()` function. E.g. list(light_mode_r(), labs(colour = NU
`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_limits_include, y_limits_include, col_limits_include`	
	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_limits_include = 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_limits_include = 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_limits_include = 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()`). (Or a list that includes 1. a theme and 2. a `ggplot2::labs()` function. E.g. `list(light_mode_r(), labs(colour = NU`
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_limits_include, y_limits_include, col_limits_include

> 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_limits_include = 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_limits_include = 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_limits_include = 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()). (Or a list that in-
                 cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU

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_limits_include, y_limits_include, col_limits_include
                 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_limits_include = 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_limits_include = 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_limits_include = 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()](#)). (Or a list that includes 1. a theme and 2. a [ggplot2::labs()](#) function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include

> 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_limits_include = 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_limits_include = 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_limits_include = 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()). (Or a list that in-
                      cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU

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_limits_include, y_limits_include, col_limits_include
                      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_limits_include = 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_limits_include = 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_limits_include = 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()). (Or a list that includes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include

> 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_limits_include = 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_limits_include = 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_limits_include = 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()). (Or a list that includes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include

        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_limits_include = 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_limits_include = 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_limits_include = 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()`). (Or a list that includes 1. a theme and 2. a `ggplot2::labs()` function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include

> 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 direc-
> tions, 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_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_limits_include = 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_limits_include = 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_limits_include = 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()`). (Or a list that includes 1. a theme and 2. a `ggplot2::labs()` function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include
                 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_limits_include = 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_limits_include = 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_limits_include = 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()). (Or a list that includes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU

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_limits_include, y_limits_include, col_limits_include

        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_limits_include = 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_limits_include = 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_limits_include = 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()). (Or a list that includes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include

> 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_limits_include = 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_limits_include = 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_limits_include = 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()). (Or a list that includes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include

> 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",
  )
```

```
   data.frame(year = 1875:1972, level = as.vector(LakeHuron)) |>
    mutate(level_min = level - 1, level_max = level + 1) |>
    gg_smooth(
      stat = "identity",
      x = year,
      y = level,
      ymin = level_min,
      ymax = level_max,
      blend = "multiply",
      se = TRUE,
      x_labels = \(x) x,
    )
```

---

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_limits_include = 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_limits_include = 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_limits_include = 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()). (Or a list that includes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include

          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_limits_include = 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_limits_include = 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_limits_include = 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_limits_include = 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()](#)). (Or a list that includes 1. a theme and 2. a [ggplot2::labs()](#) function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include

               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()

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_limits_include = 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_limits_include = 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_limits_include = 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_limits_include = 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()`). (Or a list that includes 1. a theme and 2. a `ggplot2::labs()` function. E.g. `list(light_mode_r(), labs(colour = NU`
`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_limits_include, y_limits_include, col_limits_include`	
	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_limits_include = 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_limits_include = 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_limits_include = 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()`). (Or a list that includes 1. a theme and 2. a `ggplot2::labs()` function. E.g. list(light_mode_r(), labs(colour = NU
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_limits_include, y_limits_include, col_limits_include

> 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)
```

---

guides_shape_grey *Guides for legend element colour*

Description

Guides to over-ride legend elements with a grey colour

- `guides_shape_grey()` for shape
- `guides_linewidth_grey()` for linewidth
- `guides_size_grey()` for size.

Usage

```
guides_shape_grey(colour = grey, ...)

guides_linewidth_grey(colour = grey, ...)

guides_size_grey(colour = grey, ...)
```

Arguments

`colour`	A default hex code to override the colour of the legend elements. Note, the "fill" inherits from this argument. Defaults to grey.
`...`	Other arguments passed to `ggplot2::guide_legend()`.

Value

A ggplot guides.

Examples

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

set_blanket()

penguins |>
  drop_na() |>
  gg_jitter(
    x = species,
    y = flipper_length_mm,
    col = island,
    mapping = aes(shape = sex),
  ) +
  guides_shape_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
```

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.

[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", and "vline"). Note, the "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,
  )
```

Index