Package: ggblanket (via r-universe)

Title Simplify 'ggplot2' Visualisation

Version 11.0.0

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

Imports colorspace, dplyr (>= 1.0.4), farver, forcats, ggplot2 (>= 3.5.1), grid, hms (>= 0.5.0), labelled, lubridate (>= 1.7.8), magrittr, purrr, rlang (>= 1.1.0), scales (>= 1.3.0), snakecase, stringr (>= 1.3.0), 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

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Contents

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aes_colour_contrast *A colour aesthetic for contrast*

Description

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

Usage

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

Arguments

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

Value

A ggplot2 aesthetic

Examples

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

set_blanket()

penguins |>
  count(species, sex) |>
  gg_col(
    x = sex,
    y = n,
```

```
    col = species,
    label = n,
    position = position_dodge(preserve = "single"),
    width = 0.75,
    x_labels = \(x) str_to_sentence(x),
  ) +
  geom_text(
    mapping = aes_colour_contrast(),
    position = position_dodge(width = 0.75, preserve = "single"),
    vjust = 1.33,
    show.legend = FALSE,
  )

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

---

aes_colour_darken   *Lighten/darken a colour/fill aesthetic*

Description

Lighten/darken a colour/fill aesthetic based on a

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

Usage

```
aes_colour_darken(..., amount = 0.1)

aes_colour_lighten(..., amount = 0.1)
```

```
aes_fill_darken(..., amount = 0.1)

aes_fill_lighten(..., amount = 0.1)
```

Arguments

...	Other arguments passed to [colorspace::darken()](#)/[colorspace::lighten()](#).
amount	Numeric specifying the amount of lightening or darkening.

Value

A ggplot2 aesthetic

Examples

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

set_blanket(
  alpha_recursive = 1,
)

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

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

---

blue   *A blue colour*

Description

A blue colour.

Usage

```
blue
```

Value

A character vector.

Examples

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

dark_mode_t(
```

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

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

Arguments

...	Provided to force user argument naming etc.
base_size	The base size of the text theme element. Defaults to 11.
base_family	The base family of the text theme element. Defaults to "".

base_colour   The base colour of the text theme element.

axis_line_colour

                   The colour of the axis.line theme element.

axis_line_linewidth

                   The linewidth of the axis.line theme element.

axis_ticks_colour

                   The colour of the axis.ticks theme element.

axis_ticks_linewidth

                   The linewidth of the axis.ticks theme element.

panel_grid_colour

                   The colour of the panel.grid theme element.

panel_grid_linewidth

                   The linewidth of the panel.grid theme element.

panel_background_fill

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

plot_background_fill

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

legend_axis_line_colour

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

legend_axis_line_linewidth

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

legend_background_fill

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

legend_key_fill

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

legend_ticks_colour

                   The colour of the legend.ticks theme element.

legend_ticks_linewidth

                   The linewidth of the legend.ticks theme element.

legend_ticks_length

                   The legend.ticks.length theme element.

Value

A ggplot theme.

Examples

```
library(palmerpenguins)
library(ggplot2)

set_blanket()

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

```
    col = species,
    mode = dark_mode_r()
  )

penguins |>
 gg_point(
    x = flipper_length_mm,
    y = body_mass_g,
    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"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
```

```
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
```

```
    facet_scales = "fixed",
    facet_space = "fixed",
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    label_to_case = snakecase::to_sentence_case
)
```

Arguments

data	A data frame or tibble.
...	Other arguments passed to within a params list in layer().
stat	A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. "identity").
position	A position adjustment. A snakecase character string of a ggproto Position sub-class object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
coord	A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).
mode	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.
mode_orientation	
	The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".

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

  An unquoted aesthetic variable.

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

x_breaks, y_breaks, col_breaks

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

x_breaks_n, y_breaks_n, col_breaks_n

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

x_expand, y_expand

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

x_expand_limits, y_expand_limits, col_expand_limits

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

x_label, y_label, col_label

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

x_labels, y_labels, col_labels, facet_labels

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

x_position, y_position

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

x_sec_axis, y_sec_axis

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

x_symmetric, y_symmetric

> TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

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

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

> The number of columns and rows in a legend guide.

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

economics |>
  gg_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"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
```

```
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
```

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

Arguments

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

x_labels, y_labels, col_labels, facet_labels

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

x_position, y_position

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

x_sec_axis, y_sec_axis

> A secondary axis with [`ggplot2::dup_axis()`](#) or [`ggplot2::sec_axis()`](#).

x_symmetric, y_symmetric

> TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

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

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

> The number of columns and rows in a legend guide.

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

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

Value

A ggplot object.

Examples

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

set_blanket()

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

---

gg_bin_2d   *Bin_2d ggplot*

Description

Create a bin2d ggplot with a wrapper around [ggplot2::ggplot()](#) + [geom_bin_2d()](#).

Usage

```
gg_bin_2d(
  data = NULL,
  ...,
  stat = "bin2d",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
```

```
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
```

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

Arguments

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

x_labels, y_labels, col_labels, facet_labels

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

x_position, y_position

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

x_sec_axis, y_sec_axis

> A secondary axis with [`ggplot2::dup_axis()`](#) or [`ggplot2::sec_axis()`](#).

x_symmetric, y_symmetric

> TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

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

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

> The number of columns and rows in a legend guide.

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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,
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
```

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

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

Arguments

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

x_expand_limits, y_expand_limits, col_expand_limits

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

x_label, y_label, col_label

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

x_labels, y_labels, col_labels, facet_labels

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

x_position, y_position

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

x_sec_axis, y_sec_axis

> A secondary axis with [ggplot2::dup_axis()](#) or [ggplot2::sec_axis()](#).

x_symmetric, y_symmetric

> TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

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

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

> The number of columns and rows in a legend guide.

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

facet_space	When the facet scales are *not* "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
label_to_case	A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

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

set_blanket()

penguins %>%
  gg_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"),
```

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

```
    col_legend_rev = FALSE,
    col_palette = NULL,
    col_palette_na = NULL,
    col_rescale = scales::rescale(),
    col_steps = FALSE,
    col_transform = NULL,
    facet_axes = NULL,
    facet_axis_labels = "margins",
    facet_drop = FALSE,
    facet_labels = NULL,
    facet_layout = NULL,
    facet_ncol = NULL,
    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    label_to_case = snakecase::to_sentence_case
)
```

Arguments

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

x_breaks_n, y_breaks_n, col_breaks_n

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

x_expand, y_expand

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

x_expand_limits, y_expand_limits, col_expand_limits

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

x_label, y_label, col_label

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

x_labels, y_labels, col_labels, facet_labels

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

x_position, y_position

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

x_sec_axis, y_sec_axis

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

x_symmetric, y_symmetric

`TRUE` or `FALSE` of whether a symmetric scale.

x_transform, y_transform, col_transform

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

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

The number of columns and rows in a legend guide.

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

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

---

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

```
    col_breaks_n = 5,
    col_drop = FALSE,
    col_expand_limits = NULL,
    col_label = NULL,
    col_labels = NULL,
    col_legend_ncol = NULL,
    col_legend_nrow = NULL,
    col_legend_rev = FALSE,
    col_palette = NULL,
    col_palette_na = NULL,
    col_rescale = scales::rescale(),
    col_steps = FALSE,
    col_transform = NULL,
    facet_axes = NULL,
    facet_axis_labels = "margins",
    facet_drop = FALSE,
    facet_labels = NULL,
    facet_layout = NULL,
    facet_ncol = NULL,
    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    label_to_case = snakecase::to_sentence_case
)
```

Arguments

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  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"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_expand_limits = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
  x_symmetric = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_breaks_n = NULL,
```

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

Arguments

data	A data frame or tibble.
...	Other arguments passed to within a `params` list in `layer()`.
stat	A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. `"identity"`).
position	A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. `"identity"`), or a `position_*()` function that outputs a ggproto Position subclass object (e.g. `ggplot2::position_identity()`).
coord	A coordinate system. A `coord_*()` function that outputs a constructed ggproto Coord subclass object (e.g. [`ggplot2::coord_cartesian()`](ggplot2::coord_cartesian())).

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

mode_orientation

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

ggplot2::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"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_expand_limits = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
  x_symmetric = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_breaks_n = NULL,
```

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

Arguments

`data`	A data frame or tibble.
`...`	Other arguments passed to within a `params` list in `layer()`.
`stat`	A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. `"identity"`).
`position`	A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. `"identity"`), or a `position_*()` function that outputs a ggproto Position subclass object (e.g. `ggplot2::position_identity()`).
`coord`	A coordinate system. A `coord_*()` function that outputs a constructed ggproto Coord subclass object (e.g. [`ggplot2::coord_cartesian()`](ggplot2::coord_cartesian())).

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

faithfuld |>
  gg_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"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_expand_limits = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
  x_symmetric = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_breaks_n = NULL,
```

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

Arguments

`data`	A data frame or tibble.
`...`	Other arguments passed to within a `params` list in `layer()`.
`stat`	A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. `"identity"`).
`position`	A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. `"identity"`), or a `position_*()` function that outputs a ggproto Position subclass object (e.g. `ggplot2::position_identity()`).
`coord`	A coordinate system. A `coord_*()` function that outputs a constructed ggproto Coord subclass object (e.g. [`ggplot2::coord_cartesian()`](#)).

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

mode_orientation

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

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

                      An unquoted aesthetic variable.

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

x_breaks, y_breaks, col_breaks

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

x_breaks_n, y_breaks_n, col_breaks_n

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

x_expand, y_expand

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

x_expand_limits, y_expand_limits, col_expand_limits

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

x_label, y_label, col_label

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

x_labels, y_labels, col_labels, facet_labels

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

x_position, y_position

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

x_sec_axis, y_sec_axis

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

x_symmetric, y_symmetric

                      TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

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

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

                      The number of columns and rows in a legend guide.

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

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

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

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

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

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

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

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

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

data.frame(
  trt = factor(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",
)
```

---

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"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
```

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

Arguments

`data`	A data frame or tibble.
`...`	Other arguments passed to within a `params` list in `layer()`.
`stat`	A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. `"identity"`).
`position`	A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. `"identity"`), or a `position_*()` function that outputs a ggproto Position subclass object (e.g. `ggplot2::position_identity()`).
`coord`	A coordinate system. A `coord_*()` function that outputs a constructed ggproto Coord subclass object (e.g. `ggplot2::coord_cartesian()`).
`mode`	A ggplot2 theme (e.g. `light_mode_t()` or `dark_mode_r()`) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the `mode_orientation`.
`mode_orientation`	
	The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".

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

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

`x_breaks, y_breaks, col_breaks`

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

`x_breaks_n, y_breaks_n, col_breaks_n`

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

`x_expand, y_expand`

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

`x_expand_limits, y_expand_limits, col_expand_limits`

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

`x_label, y_label, col_label`

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

`x_labels, y_labels, col_labels, facet_labels`

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

`x_position, y_position`

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

`x_sec_axis, y_sec_axis`

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

x_symmetric, y_symmetric

> TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

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

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

> The number of columns and rows in a legend guide.

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

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

---

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"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
```

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

```
    label_to_case = snakecase::to_sentence_case
)
```

Arguments

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

x_sec_axis, y_sec_axis

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

x_symmetric, y_symmetric

        `TRUE` or `FALSE` of whether a symmetric scale.

x_transform, y_transform, col_transform

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

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

        The number of columns and rows in a legend guide.

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

faithful |>
  gg_density_2d(
    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"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
```

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

```
    caption = NULL,
    label_to_case = snakecase::to_sentence_case
)
```

Arguments

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

x_position, y_position

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

x_sec_axis, y_sec_axis

> A secondary axis with [`ggplot2::dup_axis()`](ggplot2::dup_axis()) or [`ggplot2::sec_axis()`](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()`](scales::transform_log10())) or character string of this minus the `transform_` prefix (e.g. `"log10"`).

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

> The number of columns and rows in a legend guide.

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

faithful |>
  gg_density_2d_filled(
    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"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
```

```
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
```

```
    facet_scales = "fixed",
    facet_space = "fixed",
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    label_to_case = snakecase::to_sentence_case
)
```

Arguments

data
: A data frame or tibble.

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

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

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

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

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

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

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

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

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

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

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

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

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

x_labels, y_labels, col_labels, facet_labels

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

x_position, y_position

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

x_sec_axis, y_sec_axis

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

x_symmetric, y_symmetric

    TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

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

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

    The number of columns and rows in a legend guide.

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

data.frame(
  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"),
```

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

```
    col_legend_rev = FALSE,
    col_palette = NULL,
    col_palette_na = NULL,
    col_rescale = scales::rescale(),
    col_steps = FALSE,
    col_transform = NULL,
    facet_axes = NULL,
    facet_axis_labels = "margins",
    facet_drop = FALSE,
    facet_labels = NULL,
    facet_layout = NULL,
    facet_ncol = NULL,
    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    label_to_case = snakecase::to_sentence_case
)
```

Arguments

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

x_breaks_n, y_breaks_n, col_breaks_n

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

x_expand, y_expand

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

x_expand_limits, y_expand_limits, col_expand_limits

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

x_label, y_label, col_label

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

x_labels, y_labels, col_labels, facet_labels

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

x_position, y_position

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

x_sec_axis, y_sec_axis

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

x_symmetric, y_symmetric

        TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

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

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

        The number of columns and rows in a legend guide.

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  gg_freqpoly(
    x = flipper_length_mm,
    col = sex,
  )
```

---

gg_function   *Function ggplot*

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

```
    col_breaks_n = 5,
    col_drop = FALSE,
    col_expand_limits = NULL,
    col_label = NULL,
    col_labels = NULL,
    col_legend_ncol = NULL,
    col_legend_nrow = NULL,
    col_legend_rev = FALSE,
    col_palette = NULL,
    col_palette_na = NULL,
    col_rescale = scales::rescale(),
    col_steps = FALSE,
    col_transform = NULL,
    facet_axes = NULL,
    facet_axis_labels = "margins",
    facet_drop = FALSE,
    facet_labels = NULL,
    facet_layout = NULL,
    facet_ncol = NULL,
    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    label_to_case = snakecase::to_sentence_case
)
```

Arguments

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

---

gg_hex   *Hex ggplot*

Description

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

Usage

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

```
    col_breaks_n = 5,
    col_drop = FALSE,
    col_expand_limits = NULL,
    col_label = NULL,
    col_labels = NULL,
    col_legend_ncol = NULL,
    col_legend_nrow = NULL,
    col_legend_rev = FALSE,
    col_palette = NULL,
    col_palette_na = NULL,
    col_rescale = scales::rescale(),
    col_steps = FALSE,
    col_transform = NULL,
    facet_axes = NULL,
    facet_axis_labels = "margins",
    facet_drop = FALSE,
    facet_labels = NULL,
    facet_layout = NULL,
    facet_ncol = NULL,
    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    label_to_case = snakecase::to_sentence_case
)
```

Arguments

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

facet_scales   Whether facet scales should be ″fixed″ across facets, ″free″ in both 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_to_case   A function to format the default x_label, y_label and col_label of unlabelled
                  variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

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

set_blanket()

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

```
    col_breaks_n = 5,
    col_drop = FALSE,
    col_expand_limits = NULL,
    col_label = NULL,
    col_labels = NULL,
    col_legend_ncol = NULL,
    col_legend_nrow = NULL,
    col_legend_rev = FALSE,
    col_palette = NULL,
    col_palette_na = NULL,
    col_rescale = scales::rescale(),
    col_steps = FALSE,
    col_transform = NULL,
    facet_axes = NULL,
    facet_axis_labels = "margins",
    facet_drop = FALSE,
    facet_labels = NULL,
    facet_layout = NULL,
    facet_ncol = NULL,
    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    label_to_case = snakecase::to_sentence_case
)
```

Arguments

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

facet_scales   Whether facet scales should be "fixed" across facets, "free" in both 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_to_case   A function to format the default x_label, y_label and col_label of unlabelled
                  variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  gg_histogram(
    x = flipper_length_mm,
    col = sex,
    bins = 50,
  )
```

---

gg_jitter   *Jitter ggplot*

Description

Create a jitter ggplot with a wrapper around [ggplot2::ggplot()](#) + [geom_jitter()](#).

Usage

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

```
    col_breaks_n = 5,
    col_drop = FALSE,
    col_expand_limits = NULL,
    col_label = NULL,
    col_labels = NULL,
    col_legend_ncol = NULL,
    col_legend_nrow = NULL,
    col_legend_rev = FALSE,
    col_palette = NULL,
    col_palette_na = NULL,
    col_rescale = scales::rescale(),
    col_steps = FALSE,
    col_transform = NULL,
    facet_axes = NULL,
    facet_axis_labels = "margins",
    facet_drop = FALSE,
    facet_labels = NULL,
    facet_layout = NULL,
    facet_ncol = NULL,
    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    label_to_case = snakecase::to_sentence_case
)
```

Arguments

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

facet_scales   Whether facet scales should be "fixed" across facets, "free" in both 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_to_case   A function to format the default x_label, y_label and col_label of unlabelled
                    variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

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

set_blanket()

set.seed(123)

penguins |>
  gg_jitter(
    x = species,
    y = body_mass_g,
    col = flipper_length_mm,
    position = position_jitter(height = 0),
    y_expand_limits = 0,
    col_steps = TRUE,
  )
```

gg_label	*Label ggplot*

Description

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

Usage

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

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

Arguments

data	A data frame or tibble.
...	Other arguments passed to within a params list in `layer()`.
stat	A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. `"identity"`).
position	A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. `"identity"`), or a `position_*()` function that outputs a ggproto Position subclass object (e.g. `ggplot2::position_identity()`).
coord	A coordinate system. A `coord_*()` function that outputs a constructed ggproto Coord subclass object (e.g. `ggplot2::coord_cartesian()`).

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

mode_orientation

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

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

     An unquoted aesthetic variable.

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

x_breaks, y_breaks, col_breaks

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

x_breaks_n, y_breaks_n, col_breaks_n

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

x_expand, y_expand

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

x_expand_limits, y_expand_limits, col_expand_limits

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

x_label, y_label, col_label

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

x_labels, y_labels, col_labels, facet_labels

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

x_position, y_position

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

x_sec_axis, y_sec_axis

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

x_symmetric, y_symmetric

     TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

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

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

     The number of columns and rows in a legend guide.

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

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

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

---

gg_line   *Line ggplot*

Description

Create a line ggplot with a wrapper around [ggplot2::ggplot()](#) + [geom_line()](#).

Usage

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

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

Arguments

data   A data frame or tibble.

...	Other arguments passed to within a `params` list in `layer()`.
`stat`	A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. `"identity"`).
`position`	A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. `"identity"`), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
`coord`	A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. [ggplot2::coord_cartesian()](#)).
`mode`	A ggplot2 theme (e.g. [light_mode_t()](#) or [dark_mode_r()](#)) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the `mode_orientation`.

`mode_orientation`

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

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

An unquoted aesthetic variable.

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

`x_breaks, y_breaks, col_breaks`

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

`x_breaks_n, y_breaks_n, col_breaks_n`

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

`x_expand, y_expand`

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

`x_expand_limits, y_expand_limits, col_expand_limits`

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

`x_label, y_label, col_label`

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

`x_labels, y_labels, col_labels, facet_labels`

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

`x_position, y_position`

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

`x_sec_axis, y_sec_axis`

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

`x_symmetric, y_symmetric`

TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

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

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

> The number of columns and rows in a legend guide.

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

gg_linerange   *Linerange ggplot*

Description

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

Usage

```
gg_linerange(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
```

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

```
    caption = NULL,
    label_to_case = snakecase::to_sentence_case
)
```

Arguments

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

x_position, y_position

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

x_sec_axis, y_sec_axis

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

x_symmetric, y_symmetric

> TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

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

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

> The number of columns and rows in a legend guide.

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

data.frame(
  trt = factor(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"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
```

```
xend = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
```

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

Arguments

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

x_expand_limits, y_expand_limits, col_expand_limits

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

x_label, y_label, col_label

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

x_labels, y_labels, col_labels, facet_labels

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

x_position, y_position

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

x_sec_axis, y_sec_axis

> A secondary axis with [ggplot2::dup_axis()](#) or [ggplot2::sec_axis()](#).

x_symmetric, y_symmetric

> TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

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

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

> The number of columns and rows in a legend guide.

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

facet_scales   Whether facet scales should be "fixed" across facets, "free" in both 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_to_case	A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

---

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"),
  mode = NULL,
```

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

```
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_transform = NULL,
  facet_axes = NULL,
  facet_axis_labels = "margins",
  facet_drop = FALSE,
  facet_labels = NULL,
  facet_layout = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  facet_space = "fixed",
  title = NULL,
  subtitle = NULL,
  caption = NULL,
  label_to_case = snakecase::to_sentence_case
)
```

Arguments

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

x_expand, y_expand

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

x_expand_limits, y_expand_limits, col_expand_limits

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

x_label, y_label, col_label

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

x_labels, y_labels, col_labels, facet_labels

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

x_position, y_position

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

x_sec_axis, y_sec_axis

> A secondary axis with [ggplot2::dup_axis()](#) or [ggplot2::sec_axis()](#).

x_symmetric, y_symmetric

> TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

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

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

> The number of columns and rows in a legend guide.

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

`facet_scales`	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
`facet_space`	When the facet scales are *not* "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
`title`	Title string.
`subtitle`	Subtitle string.
`caption`	Caption title string.
`label_to_case`	A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

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

set_blanket()

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

---

gg_pointrange *Pointrange ggplot*

Description

Create a pointrange ggplot with a wrapper around [ggplot2::ggplot()](#) + [geom_pointrange()](#).

Usage

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

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

```
    col_legend_rev = FALSE,
    col_palette = NULL,
    col_palette_na = NULL,
    col_rescale = scales::rescale(),
    col_steps = FALSE,
    col_transform = NULL,
    facet_axes = NULL,
    facet_axis_labels = "margins",
    facet_drop = FALSE,
    facet_labels = NULL,
    facet_layout = NULL,
    facet_ncol = NULL,
    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    label_to_case = snakecase::to_sentence_case
)
```

Arguments

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

x_breaks_n, y_breaks_n, col_breaks_n

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

x_expand, y_expand

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

x_expand_limits, y_expand_limits, col_expand_limits

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

x_label, y_label, col_label

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

x_labels, y_labels, col_labels, facet_labels

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

x_position, y_position

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

x_sec_axis, y_sec_axis

        A secondary axis with [`ggplot2::dup_axis()`](ggplot2::dup_axis()) or [`ggplot2::sec_axis()`](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()`](scales::transform_log10())) or character string of this minus the `transform_` prefix (e.g. `"log10"`).

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

        The number of columns and rows in a legend guide.

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

data.frame(
  trt = factor(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"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_expand_limits = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
  x_symmetric = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_breaks_n = NULL,
```

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

Arguments

data	A data frame or tibble.
...	Other arguments passed to within a params list in `layer()`.
stat	A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. `"identity"`).
position	A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. `"identity"`), or a `position_*()` function that outputs a ggproto Position subclass object (e.g. `ggplot2::position_identity()`).
coord	A coordinate system. A `coord_*()` function that outputs a constructed ggproto Coord subclass object (e.g. [`ggplot2::coord_cartesian()`](ggplot2::coord_cartesian())).

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

mode_orientation

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

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

                        An unquoted aesthetic variable.

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

x_breaks, y_breaks, col_breaks

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

x_breaks_n, y_breaks_n, col_breaks_n

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

x_expand, y_expand

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

x_expand_limits, y_expand_limits, col_expand_limits

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

x_label, y_label, col_label

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

x_labels, y_labels, col_labels, facet_labels

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

x_position, y_position

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

x_sec_axis, y_sec_axis

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

x_symmetric, y_symmetric

                        TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

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

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

                        The number of columns and rows in a legend guide.

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

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

values <- data.frame(
  id = ids,
  value = c(3, 3.1, 3.1, 3.2, 3.15, 3.5)
)

positions <- data.frame(
```

```
    id = rep(ids, each = 4),
    x = c(
      2, 1, 1.1, 2.2, 1, 0, 0.3, 1.1, 2.2, 1.1, 1.2, 2.5, 1.1, 0.3,
      0.5, 1.2, 2.5, 1.2, 1.3, 2.7, 1.2, 0.5, 0.6, 1.3
    ),
    y = c(
      -0.5, 0, 1, 0.5, 0, 0.5, 1.5, 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"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
```

```
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
```

```
    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    label_to_case = snakecase::to_sentence_case
)
```

Arguments

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

x_labels, y_labels, col_labels, facet_labels

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

x_position, y_position

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

x_sec_axis, y_sec_axis

> A secondary axis with [`ggplot2::dup_axis()`](#) or [`ggplot2::sec_axis()`](#).

x_symmetric, y_symmetric

> TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

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

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

> The number of columns and rows in a legend guide.

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  gg_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"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
```

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

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

Arguments

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

x_label, y_label, col_label

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

x_labels, y_labels, col_labels, facet_labels

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

x_position, y_position

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

x_sec_axis, y_sec_axis

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

x_symmetric, y_symmetric

> TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

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

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

> The number of columns and rows in a legend guide.

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

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

Value

A ggplot object.

Examples

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

  set_blanket()

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

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"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
```

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

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

Arguments

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

x_expand_limits, y_expand_limits, col_expand_limits

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

x_label, y_label, col_label

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

x_labels, y_labels, col_labels, facet_labels

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

x_position, y_position

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

x_sec_axis, y_sec_axis

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

x_symmetric, y_symmetric

> TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

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

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

> The number of columns and rows in a legend guide.

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

facet_space	When the facet scales are *not* "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
label_to_case	A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

faithfuld |>
  gg_raster(
    x = waiting,
    y = eruptions,
    col = density,
  )
```

---

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"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
```

```
xmax = NULL,
xend = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
```

```
    col_steps = FALSE,
    col_transform = NULL,
    facet_axes = NULL,
    facet_axis_labels = "margins",
    facet_drop = FALSE,
    facet_labels = NULL,
    facet_layout = NULL,
    facet_ncol = NULL,
    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    label_to_case = snakecase::to_sentence_case
)
```

Arguments

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

x_expand_limits, y_expand_limits, col_expand_limits

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

x_label, y_label, col_label

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

x_labels, y_labels, col_labels, facet_labels

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

x_position, y_position

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

x_sec_axis, y_sec_axis

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

x_symmetric, y_symmetric

> TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

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

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

> The number of columns and rows in a legend guide.

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

facet_space	When the facet scales are *not* "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
label_to_case	A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

```
    col_breaks_n = 5,
    col_drop = FALSE,
    col_expand_limits = NULL,
    col_label = NULL,
    col_labels = NULL,
    col_legend_ncol = NULL,
    col_legend_nrow = NULL,
    col_legend_rev = FALSE,
    col_palette = NULL,
    col_palette_na = NULL,
    col_rescale = scales::rescale(),
    col_steps = FALSE,
    col_transform = NULL,
    facet_axes = NULL,
    facet_axis_labels = "margins",
    facet_drop = FALSE,
    facet_labels = NULL,
    facet_layout = NULL,
    facet_ncol = NULL,
    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    label_to_case = snakecase::to_sentence_case
)
```

Arguments

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

data.frame(year = 1875:1972, level = as.vector(LakeHuron)) |>
  mutate(level_min = level - 1, level_max = level + 1) |>
  gg_ribbon(
    x = year,
    ymin = level_min,
    ymax = level_max,
    x_labels = \(x) x,
    y_label = "Level",
  ) +
  geom_line(mapping = aes(y = level))
```

---

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"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_expand_limits = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
  x_symmetric = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_breaks_n = NULL,
```

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

Arguments

data	A data frame or tibble.
...	Other arguments passed to within a `params` list in `layer()`.
stat	A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. `"identity"`).
position	A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. `"identity"`), or a `position_*()` function that outputs a ggproto Position subclass object (e.g. `ggplot2::position_identity()`).
coord	A coordinate system. A `coord_*()` function that outputs a constructed ggproto Coord subclass object (e.g. [`ggplot2::coord_cartesian()`](ggplot2::coord_cartesian())).

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

mode_orientation

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

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

                    An unquoted aesthetic variable.

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

x_breaks, y_breaks, col_breaks

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

x_breaks_n, y_breaks_n, col_breaks_n

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

x_expand, y_expand

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

x_expand_limits, y_expand_limits, col_expand_limits

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

x_label, y_label, col_label

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

x_labels, y_labels, col_labels, facet_labels

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

x_position, y_position

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

x_sec_axis, y_sec_axis

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

x_symmetric, y_symmetric

                    TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

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

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

                    The number of columns and rows in a legend guide.

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

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  gg_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"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_expand_limits = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
  x_symmetric = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_breaks_n = NULL,
```

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

Arguments

data	A data frame or tibble.
...	Other arguments passed to within a params list in `layer()`.
stat	A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. `"identity"`).
position	A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. `"identity"`), or a `position_*()` function that outputs a ggproto Position subclass object (e.g. `ggplot2::position_identity()`).
coord	A coordinate system. A `coord_*()` function that outputs a constructed ggproto Coord subclass object (e.g. `ggplot2::coord_cartesian()`).

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

mode_orientation

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

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

    An unquoted aesthetic variable.

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

x_breaks, y_breaks, col_breaks

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

x_breaks_n, y_breaks_n, col_breaks_n

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

x_expand, y_expand

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

x_expand_limits, y_expand_limits, col_expand_limits

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

x_label, y_label, col_label

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

x_labels, y_labels, col_labels, facet_labels

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

x_position, y_position

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

x_sec_axis, y_sec_axis

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

x_symmetric, y_symmetric

    TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

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

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

    The number of columns and rows in a legend guide.

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

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

Value

A ggplot object.

Examples

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

set_blanket()

data.frame(x1 = 2.62, x2 = 3.57, y1 = 21.0, y2 = 15.0) |>
  gg_segment(
    x = x1,
    xend = x2,
    y = y1,
    yend = y2,
  )
```

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"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_expand_limits = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
  x_symmetric = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_breaks_n = NULL,
```

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

Arguments

data	A data frame or tibble.
...	Other arguments passed to within a `params` list in `layer()`.
stat	A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. `"identity"`).
position	A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. `"identity"`), or a `position_*()` function that outputs a ggproto Position subclass object (e.g. `ggplot2::position_identity()`).
coord	A coordinate system. A `coord_*()` function that outputs a constructed ggproto Coord subclass object (e.g. `ggplot2::coord_cartesian()`).

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_expand_limits = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
  x_symmetric = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_breaks_n = NULL,
```

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

Arguments

data	A data frame or tibble.
...	Other arguments passed to within a `params` list in `layer()`.
stat	A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. `"identity"`).
position	A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. `"identity"`), or a `position_*()` function that outputs a ggproto Position subclass object (e.g. `ggplot2::position_identity()`).
coord	A coordinate system. A `coord_*()` function that outputs a constructed ggproto Coord subclass object (e.g. [`ggplot2::coord_cartesian()`](#)).

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

mode_orientation

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

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

                An unquoted aesthetic variable.

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

x_breaks, y_breaks, col_breaks

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

x_breaks_n, y_breaks_n, col_breaks_n

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

x_expand, y_expand

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

x_expand_limits, y_expand_limits, col_expand_limits

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

x_label, y_label, col_label

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

x_labels, y_labels, col_labels, facet_labels

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

x_position, y_position

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

x_sec_axis, y_sec_axis

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

x_symmetric, y_symmetric

                TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

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

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

                The number of columns and rows in a legend guide.

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

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

Value

A ggplot object.

Examples

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

set_blanket()

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

---

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"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_expand_limits = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
  x_symmetric = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_breaks_n = NULL,
```

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

Arguments

data	A data frame or tibble.
...	Other arguments passed to within a params list in layer().
stat	A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. "identity").
position	A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
coord	A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

economics |>
  filter(date > lubridate::ymd("2010-01-01")) |>
  gg_step(
    x = date,
    y = unemploy,
    y_expand_limits = 0,
    y_label = "Unemployment",
  )
```

---

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"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_expand_limits = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
  x_symmetric = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_breaks_n = NULL,
```

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

Arguments

data	A data frame or tibble.
...	Other arguments passed to within a params list in layer().
stat	A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. "identity").
position	A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
coord	A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).

mode	A ggplot2 theme (e.g. [light_mode_t()](#) or [dark_mode_r()](#)) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.
mode_orientation	
	The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".

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

> An unquoted aesthetic variable.

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

x_breaks, y_breaks, col_breaks

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

x_breaks_n, y_breaks_n, col_breaks_n

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

x_expand, y_expand

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

x_expand_limits, y_expand_limits, col_expand_limits

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

x_label, y_label, col_label

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

x_labels, y_labels, col_labels, facet_labels

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

x_position, y_position

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

x_sec_axis, y_sec_axis

> A secondary axis with [ggplot2::dup_axis()](#) or [ggplot2::sec_axis()](#).

x_symmetric, y_symmetric

> TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

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

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

> The number of columns and rows in a legend guide.

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

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

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

col_rescale   For a continuous variable, a `scales::rescale()` function.

col_steps   For a continuous variable, `TRUE` or `FALSE` of whether to colour in steps. Defaults to `FALSE`.

facet_axes   Whether to add interior axes and ticks with `"margins"`, `"all"`, `"all_x"`, or `"all_y"`. Sometimes + `*_mode_*()` may be needed.

facet_axis_labels
                   Whether to add interior axis labels with `"margins"`, `"all"`, `"all_x"`, or `"all_y"`.

facet_layout   Whether the layout is to be `"wrap"` or `"grid"`. If `NULL` and a single `facet` (or `facet2`) argument is provided, then defaults to `"wrap"`. If `NULL` and both facet and facet2 arguments are provided, defaults to `"grid"`.

facet_ncol, facet_nrow
                   The number of columns and rows of facet panels. Only applies to a facet layout of `"wrap"`.

facet_scales   Whether facet scales should be `"fixed"` across facets, `"free"` in both directions, or free in just one direction (i.e. `"free_x"` or `"free_y"`). Defaults to `"fixed"`.

facet_space   When the facet scales are *not* `"fixed"`, whether facet space should be `"fixed"` across facets, `"free"` to be proportional in both directions, or free to be proportional in just one direction (i.e. `"free_x"` or `"free_y"`). Defaults to `"fixed"`.

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

label_to_case   A function to format the default `x_label`, `y_label` and `col_label` of unlabelled variables. Defaults to `snakecase::to_sentence_case`.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

bind_rows(
  mtcars |> slice_min(order_by = mpg),
  mtcars |> slice_max(order_by = mpg)
) |>
  tibble::rownames_to_column("model") |>
  gg_text(
    x = model,
    y = mpg,
```

```
    col = mpg,
    label = model,
    y_expand_limits = 0,
    y_label = "Miles per gallon",
    col_palette = c(orange, "white", teal),
  )
```

---

gg_tile   *Tile ggplot*

Description

Create a tile plot with a wrapper around [ggplot2::ggplot()](#) + [geom_tile()](#).

Usage

```
gg_tile(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_expand_limits = NULL,
```

```
    x_label = NULL,
    x_labels = NULL,
    x_position = "bottom",
    x_sec_axis = ggplot2::waiver(),
    x_symmetric = NULL,
    x_transform = NULL,
    y_breaks = NULL,
    y_breaks_n = NULL,
    y_expand = NULL,
    y_expand_limits = NULL,
    y_label = NULL,
    y_labels = NULL,
    y_position = "left",
    y_sec_axis = ggplot2::waiver(),
    y_symmetric = NULL,
    y_transform = NULL,
    col_breaks = NULL,
    col_breaks_n = 5,
    col_drop = FALSE,
    col_expand_limits = NULL,
    col_label = NULL,
    col_labels = NULL,
    col_legend_ncol = NULL,
    col_legend_nrow = NULL,
    col_legend_rev = FALSE,
    col_palette = NULL,
    col_palette_na = NULL,
    col_rescale = scales::rescale(),
    col_steps = FALSE,
    col_transform = NULL,
    facet_axes = NULL,
    facet_axis_labels = "margins",
    facet_drop = FALSE,
    facet_labels = NULL,
    facet_layout = NULL,
    facet_ncol = NULL,
    facet_nrow = NULL,
    facet_scales = "fixed",
    facet_space = "fixed",
    title = NULL,
    subtitle = NULL,
    caption = NULL,
    label_to_case = snakecase::to_sentence_case
)
```

Arguments

data   A data frame or tibble.

...	Other arguments passed to within a params list in layer().
stat	A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. "identity").
position	A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
coord	A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).
mode	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.

mode_orientation

> The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".

x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group,
subgroup, label, text, sample

> An unquoted aesthetic variable.

mapping	A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.

x_breaks, y_breaks, col_breaks

> A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.

x_breaks_n, y_breaks_n, col_breaks_n

> A number of desired breaks for when *_breaks = NULL.

x_expand, y_expand

> Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).

x_expand_limits, y_expand_limits, col_expand_limits

> For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.

x_label, y_label, col_label

> Label for the axis or legend title. Use + ggplot2::labs(... = NULL) for no title.

x_labels, y_labels, col_labels, facet_labels

> A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).

x_position, y_position

> The position of the axis (i.e. "left", "right", "bottom" or "top").If using y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".

x_sec_axis, y_sec_axis

> A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().

x_symmetric, y_symmetric

> TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

>   For a continuous scale, a transformation object (e.g. `scales::transform_log10()`) or character string of this minus the `transform_` prefix (e.g. `"log10"`).

col_drop, facet_drop

>   For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow

>   The number of columns and rows in a legend guide.

col_legend_rev   TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

col_palette   A character vector of hex codes (or names) or a `scales::pal_*()` function.

col_palette_na   A hex code (or name) for the colour of NA values.

col_rescale   For a continuous variable, a `scales::rescale()` function.

col_steps   For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

facet_axes   Whether to add interior axes and ticks with `"margins"`, `"all"`, `"all_x"`, or `"all_y"`. Sometimes + `*_mode_*()` may be needed.

facet_axis_labels

>   Whether to add interior axis labels with `"margins"`, `"all"`, `"all_x"`, or `"all_y"`.

facet_layout   Whether the layout is to be `"wrap"` or `"grid"`. If NULL and a single facet (or facet2) argument is provided, then defaults to `"wrap"`. If NULL and both facet and facet2 arguments are provided, defaults to `"grid"`.

facet_ncol, facet_nrow

>   The number of columns and rows of facet panels. Only applies to a facet layout of `"wrap"`.

facet_scales   Whether facet scales should be `"fixed"` across facets, `"free"` in both directions, or free in just one direction (i.e. `"free_x"` or `"free_y"`). Defaults to `"fixed"`.

facet_space   When the facet scales are *not* `"fixed"`, whether facet space should be `"fixed"` across facets, `"free"` to be proportional in both directions, or free to be proportional in just one direction (i.e. `"free_x"` or `"free_y"`). Defaults to `"fixed"`.

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

label_to_case   A function to format the default x_label, y_label and col_label of unlabelled variables. Defaults to `snakecase::to_sentence_case`.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
library(palmerpenguins)

set_blanket()

penguins |>
  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"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
```

```
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_expand_limits = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
```

```
    subtitle = NULL,
    caption = NULL,
    label_to_case = snakecase::to_sentence_case
)
```

Arguments

`data`	A data frame or tibble.
`...`	Other arguments passed to within a `params` list in `layer()`.
`stat`	A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. `"identity"`).
`position`	A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. `"identity"`), or a `position_*()` function that outputs a ggproto Position subclass object (e.g. `ggplot2::position_identity()`).
`coord`	A coordinate system. A `coord_*()` function that outputs a constructed ggproto Coord subclass object (e.g. `ggplot2::coord_cartesian()`).
`mode`	A ggplot2 theme (e.g. `light_mode_t()` or `dark_mode_r()`) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the `mode_orientation`.
`mode_orientation`	The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".
`x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample`	An unquoted aesthetic variable.
`mapping`	A set of additional aesthetic mappings in `ggplot2::aes()`. Intended primarily for non-supported aesthetics (e.g. `shape`, `linetype`, `linewidth`, or `size`), but can also be used for delayed evaluation etc.
`x_breaks, y_breaks, col_breaks`	A `scales::breaks_*` function (e.g. `scales::breaks_*()`), or a vector of breaks.
`x_breaks_n, y_breaks_n, col_breaks_n`	A number of desired breaks for when `*_breaks = NULL`.
`x_expand, y_expand`	Padding to the limits with the `ggplot2::expansion()` function, or a vector of length 2 (e.g. `c(0, 0)`).
`x_expand_limits, y_expand_limits, col_expand_limits`	For a continuous variable, any values that the limits should encompass (e.g. `0`). For a discrete scale, manipulate the data instead with `forcats::fct_expand`.
`x_label, y_label, col_label`	Label for the axis or legend title. Use `+ ggplot2::labs(... = NULL)` for no title.
`x_labels, y_labels, col_labels, facet_labels`	A function that takes the breaks as inputs (e.g. `\(x) stringr::str_to_sentence(x)` or `scales::label_*()`), or a vector of labels. (Note this must be named for `facet_labels`).

x_position, y_position

> The position of the axis (i.e. "left", "right", "bottom" or "top").If using
> y_position = "top" with a *_mode_* theme, add caption = "" or caption =
> "\n".

x_sec_axis, y_sec_axis

> A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().

x_symmetric, y_symmetric

> TRUE or FALSE of whether a symmetric scale.

x_transform, y_transform, col_transform

> For a continuous scale, a transformation object (e.g. scales::transform_log10())
> or character string of this minus the transform_ prefix (e.g. "log10").

col_drop, facet_drop

> For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow

> The number of columns and rows in a legend guide.

col_legend_rev   TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to
> FALSE.

col_palette   A character vector of hex codes (or names) or a scales::pal_*() function.

col_palette_na   A hex code (or name) for the colour of NA values.

col_rescale   For a continuous variable, a scales::rescale() function.

col_steps   For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults
> to FALSE.

facet_axes   Whether to add interior axes and ticks with "margins", "all", "all_x", or
> "all_y". Sometimes + *_mode_*() may be needed.

facet_axis_labels

> Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

facet_layout   Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or
> facet2) argument is provided, then defaults to "wrap". If NULL and both facet
> and facet2 arguments are provided, defaults to "grid".

facet_ncol, facet_nrow

> The number of columns and rows of facet panels. Only applies to a facet layout
> of "wrap".

facet_scales   Whether facet scales should be "fixed" across facets, "free" in both 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_to_case   A function to format the default x_label, y_label and col_label of unlabelled
> variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
library(palmerpenguins)

set_blanket()

penguins |>
  tidyr::drop_na(sex) |>
  gg_violin(
    x = species,
    y = body_mass_g,
    col = sex,
  )
```

---

grey   *A grey colour*

Description

A grey colour.

Usage

```
grey
```

Value

A character vector.

Examples

```
scales::show_col(grey)
```

---

jumble   *The jumble palette*

Description

A discrete palette that is relatively colour-blind safe.

Usage

```
jumble

teal

orange

navy

red

pink

purple
```

Value

A character vector.

Examples

```
colorspace::swatchplot(c(jumble, grey), cvd = TRUE)
```

---

label_every_nth   *Label every nth element*

Description

Label every nth element in a vector, and replace the rest with "".

Usage

```
label_every_nth(..., n = 2, offset = 0)
```

Arguments

`...`	If numeric, arguments passed to the `scales::comma` function. Otherwise, arguments passed to `format`.
`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)

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 `*_mode_*` 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 `*_mode_*` themes for the linewidth of the axis.line (axis.ticks and legend.ticks) and panel.grid theme elements.

Usage

```
lightness

darkness

linewidthness
```

Value

A character vector.

Examples

```
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 = 0.33,
  axis_ticks_colour = axis_line_colour,
  axis_ticks_linewidth = axis_line_linewidth,
  panel_grid_colour = "#F6F8FAFF",
  panel_grid_linewidth = 1.33,
  panel_background_fill = "#FFFFFFFF",
  plot_background_fill = "#FFFFFFFF",
  legend_axis_line_colour = plot_background_fill,
  legend_axis_line_linewidth = 0.33,
  legend_background_fill = plot_background_fill,
  legend_key_fill = plot_background_fill,
  legend_ticks_colour = legend_axis_line_colour,
  legend_ticks_linewidth = legend_axis_line_linewidth,
  legend_ticks_length = ggplot2::rel(c(0.175, 0))
)

light_mode_t(
  ...,
  base_size = 11,
  base_family = "",
```

```
    base_colour = "#121B24FF",
    axis_line_colour = "#121B24FF",
    axis_line_linewidth = 0.33,
    axis_ticks_colour = axis_line_colour,
    axis_ticks_linewidth = axis_line_linewidth,
    panel_grid_colour = "#F6F8FAFF",
    panel_grid_linewidth = 1.33,
    panel_background_fill = "#FFFFFFFF",
    plot_background_fill = "#FFFFFFFF",
    legend_axis_line_colour = plot_background_fill,
    legend_axis_line_linewidth = 0.33,
    legend_background_fill = plot_background_fill,
    legend_key_fill = plot_background_fill,
    legend_ticks_colour = legend_axis_line_colour,
    legend_ticks_linewidth = legend_axis_line_linewidth,
    legend_ticks_length = ggplot2::rel(c(0.175, 0))
)

light_mode_b(
    ...,
    base_size = 11,
    base_family = "",
    base_colour = "#121B24FF",
    axis_line_colour = "#121B24FF",
    axis_line_linewidth = 0.33,
    axis_ticks_colour = axis_line_colour,
    axis_ticks_linewidth = axis_line_linewidth,
    panel_grid_colour = "#F6F8FAFF",
    panel_grid_linewidth = 1.33,
    panel_background_fill = "#FFFFFFFF",
    plot_background_fill = "#FFFFFFFF",
    legend_axis_line_colour = plot_background_fill,
    legend_axis_line_linewidth = 0.33,
    legend_background_fill = plot_background_fill,
    legend_key_fill = plot_background_fill,
    legend_ticks_colour = legend_axis_line_colour,
    legend_ticks_linewidth = legend_axis_line_linewidth,
    legend_ticks_length = ggplot2::rel(c(0.175, 0))
)
```

Arguments

`...`	Provided to force user argument naming etc.
`base_size`	The base size of the text theme element. Defaults to 11.
`base_family`	The base family of the text theme element. Defaults to "".
`base_colour`	The base colour of the text theme element.
`axis_line_colour`	
	The colour of the axis.line theme element.

axis_line_linewidth
                    The linewidth of the axis.line theme element.
axis_ticks_colour
                    The colour of the axis.ticks theme element.
axis_ticks_linewidth
                    The linewidth of the axis.ticks theme element.
panel_grid_colour
                    The colour of the panel.grid theme element.
panel_grid_linewidth
                    The linewidth of the panel.grid theme element.
panel_background_fill
                    The fill (and colour) of the panel.background theme element.
plot_background_fill
                    The fill (and colour) of the plot.background theme element.
legend_axis_line_colour
                    The colour of the legend.axis.line theme element.
legend_axis_line_linewidth
                    The linewidth of the legend.axis.line theme element.
legend_background_fill
                    The fill (and colour) of the legend.background theme element.
legend_key_fill
                    The fill (and colour) of the legend.key theme element.
legend_ticks_colour
                    The colour of the legend.ticks theme element.
legend_ticks_linewidth
                    The linewidth of the legend.ticks theme element.
legend_ticks_length
                    The legend.ticks.length theme element.

Value

A ggplot theme.

Examples

```
library(palmerpenguins)
library(ggplot2)

set_blanket()

penguins |>
  gg_point(
    x = flipper_length_mm,
    y = body_mass_g,
    col = species,
    mode = light_mode_r()
  )
```

```
penguins |>
  gg_point(
    x = flipper_length_mm,
    y = body_mass_g,
    col = species,
    mode = light_mode_t()
  )

penguins |>
  gg_point(
    x = flipper_length_mm,
    y = body_mass_g,
    col = species,
    mode = light_mode_b()
  )
```

mode_orientation_to_x   *Orientate a mode used outside of a* gg_* *context*

Description

Add theme components to a mode used outside of a gg_* context

- mode_orientation_to_x() Orientate the plot to the x axis.
- mode_orientation_to_y() Orientate the plot to the y axis.

Usage

```
mode_orientation_to_x()

mode_orientation_to_y()
```

Value

ggplot2 theme components.

Examples

```
library(ggplot2)
library(palmerpenguins)

penguins |>
  ggplot() +
  geom_point(aes(x = flipper_length_mm, y = body_mass_g)) +
  light_mode_r() +
  mode_orientation_to_x()


penguins |>
```

```
ggplot() +
geom_bar(aes(y = island)) +
light_mode_r() +
mode_orientation_to_y()
```

set_blanket	*Set a style*

Description

Weave the style by setting:

1. the mode to be added with gg_*() side-effects

2. the colour/fill geom default, and other defaults for text, reference line and curve geoms

3. the col_palettes for discrete, continuous and ordinal colour/fill scales

4. a theme to be added *without* gg_*() side-effects.

Alternatively, use the weave_* functions to only apply a subset of these. `ggplot2::update_geom_defaults()` can be used to further fine-tune geom defaults.

Usage

```
set_blanket(
  ...,
  mode = light_mode_r(),
  colour = "#357BA2FF",
  fill = colour,
  text_colour = "#121B24FF",
  text_size = 11/2.835052,
  text_family = "",
  reference_line_colour = "#121B24FF",
  reference_line_linewidth = 0.33,
  col_palette_d = jumble,
  col_palette_na_d = "#CDC5BFFF",
  col_palette_c = viridisLite::mako(n = 9, direction = -1),
  col_palette_na_c = "#988F88FF",
  col_palette_o = scales::pal_viridis(option = "G", direction = -1),
  col_palette_na_o = "#988F88FF",
  theme = light_mode_r() + mode_orientation_to_x()
)
```

Arguments

...	Provided to force user argument naming etc.
mode	A ggplot2 theme (e.g. `light_mode_t()` or `dark_mode_r()`) that anticipates gg_* side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.

colour	A default hex colour for the colour of geoms (other than text or reference line geoms).
fill	A default hex colour for the fill of geoms (other than text or reference line geoms).
text_colour	A default hex colour for the colour (and fill) of the "text" and "label" geoms.
text_size	A default size for the "text" and "label" geoms.
text_family	A default family for the "text" and "label" geoms.

reference_line_colour

A default hex colour for the colour of the "hline", "vline", "abline" and "curve" geoms.

reference_line_linewidth

A default linewidth for the the "hline", "vline", "abline" and "curve" geoms.

col_palette_d	For a discrete scale, a character vector of hex codes.

col_palette_na_d

For a discrete scale, a hex code.

col_palette_c	For a continuous scale, a character vector of hex codes.

col_palette_na_c

For a continuous scale, a hex code.

col_palette_o	For an ordinal scale, a `scales::pal_*()` function.

col_palette_na_o

For an ordinal scale, a hex code.

theme	A ggplot2 theme that the gg_* function will add without side-effects if the mode is set/weaved to NULL (and also is applied to ggplot code outside of ggblanket).

Value

A globally set style.

Examples

```
library(ggplot2)
library(ggblanket)
library(palmerpenguins)

set_blanket(
  mode = dark_mode_r(),
  colour = "#E7298AFF",
  text_colour = darkness[1],
  reference_line_colour = darkness[1],
  col_palette_d = c("#1B9E77FF", "#D95F02FF", "#7570b3FF", "#E7298AFF",
                    "#66A61EFF", "#E6AB02FF", "#A6761DFF", "#666666FF"),
)

penguins |>
  gg_point(
    x = flipper_length_mm,
    y = body_mass_g,
```

```
  ) +
  geom_vline(xintercept = 200) +
  annotate("text", x = I(0.25), y = I(0.75), label = "Here")

penguins |>
  gg_histogram(
    x = flipper_length_mm,
    col = species,
  ) +
  geom_vline(xintercept = 200) +
  annotate("text", x = I(0.75), y = I(0.75), label = "Here")
```

weave_col_palettes   *Set a discrete colour and fill palettes*

Description

Set a discrete colour and fill palettes

Usage

```
weave_col_palettes(
  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",
  ...
)
```

Arguments

col_palette_d   For a discrete scale, a character vector of hex codes. Use NULL for ggplot2
                default.

col_palette_c   For a continuous scale, a character vector of hex codes. Use NULL for ggplot2
                default.

col_palette_o   For an ordinal scale, a `scales::pal_*()` function. Use NULL for ggplot2 de-
                fault.

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.

...   Dots to support trailing commas etc.

---

weave_geom_defaults *Set a series of geom defaults*

Description

Update the colour/fill geom default, and update other defaults for text and reference line geoms.

ggplot2::update_geom_defaults() can be used to further fine-tune geom defaults.

Usage

```
weave_geom_defaults(
  colour = "#357BA2FF",
  fill = colour,
  text_colour = "#121B24FF",
  text_size = 11/2.835052,
  text_family = "",
  reference_line_colour = "#121B24FF",
  reference_line_linewidth = 0.33
)
```

Arguments

colour	A default hex colour for the colour of geoms (other than text or reference line geoms).
fill	A default hex colour for the fill of geoms (other than text or reference line geoms).
text_colour	A default hex colour for the colour (and fill) of the "text" and "label" geoms.
text_size	A default size for the "text" and "label" geoms.
text_family	A default family for the "text" and "label" geoms.
reference_line_colour	
	A default hex colour for the colour of the "hline", "vline", "abline" and "curve" geoms.
reference_line_linewidth	
	A default linewidth for the the "hline", "vline", "abline" and "curve" geoms.

---

weave_mode *Set a mode*

Description

Set a mode for the mode argument in gg_* functions.

Usage

```
weave_mode(mode = light_mode_r())
```

Arguments

mode   A ggplot2 theme (e.g. [light_mode_t()](#) or [dark_mode_r()](#)) that anticipates
                     gg_* side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.

---

weave_theme   *Set a theme (without side-effects)*

Description

Set a theme to be +-ed on unmodified to gg_* functions. Note, the mode takes precedence, unless
the set/weaved mode is mode = NULL.

Usage

```
weave_theme(theme = light_mode_r() + mode_orientation_to_x())
```

Arguments

theme   A ggplot2 theme that the gg_* function will add without side-effects if the mode
                     is set/weaved to NULL (and also is applied to ggplot code outside of ggblanket).

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