Package 'ggblanket'

May 15, 2024

Title Simplify 'ggplot2' Visualisation

Version 9.0.0

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 (>= 3.5.0), grid, hms (>= 0.5.0), labelled, lubridate (>= 1.7.8), magrittr, purrr, rlang (>= 1.1.0), scales (>= 1.3.0), snakecase, stringr (>= 1.3.0), tidyr (>= 1.0.0), tidyselect (>= 1.2.0), viridisLite

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

VignetteBuilder knitr

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

Config/testthat/edition 3

Encoding UTF-8

Language en-GB

RoxygenNote 7.3.1

NeedsCompilation no

Author David Hodge [aut, cre, cph] (<https://orcid.org/0000-0002-3868-7501>)

Maintainer David Hodge <davidhodge931@gmail.com>

Repository CRAN

Date/Publication 2024-05-15 02:30:04 UTC

R topics documented:

`aes_contrast` *An auto-contrast colour aesthetic*

Description

A colour aesthetic for annotation that automatically contrasts with fill. Can be spliced into ggplot2::aes with rlang::!!!.

Usage

```
aes_contrast(mode_family = "light", dark = NULL, light = NULL)
```

Arguments

`mode_family`	The mode family to optimise light and dark colours for. Options are "light", "grey" or "dark".
`dark`	A dark colour. If NULL, uses `mode_family` optimised colour.
`light`	A light colour. If NULL, uses `mode_family` optimised colour.

Value

An aesthetic

Examples

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

set_blanket()

penguins |>
  count(species, sex) |>
  gg_col(
    x = sex,
    y = n,
    col = species,
    label = n,
    position = position_dodge2(preserve = "single"),
    width = 0.75,
    x_labels = \(x) str_to_sentence(x),
  ) +
  geom_text(
    mapping = aes_contrast(),
    # mapping = aes(!!!aes_contrast()),
```

```
    position = position_dodge2(width = 0.75, preserve = "single"),
    vjust = 1.33,
    show.legend = FALSE,
  )

penguins |>
  count(species, sex) |>
  gg_col(
    x = sex,
    y = n,
    col = species,
    label = n,
    position = position_dodge2(preserve = "single"),
    width = 0.75,
    x_labels = \(x) str_to_sentence(x),
    mode = dark_mode_r(),
  ) +
  geom_text(
    mapping = aes_contrast("dark"),
    #' mapping = aes(!!!aes_contrast("dark")),
    position = position_dodge2(width = 0.75, preserve = "single"),
    vjust = 1.33,
    show.legend = FALSE,
  )
```

`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
- `dark_mode_n()` with no legend

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,
  axis_ticks_length_x = grid::unit(base_size/3, "pt"),
  axis_ticks_length_y = grid::unit(base_size/4, "pt"),
  panel_grid_colour = "#00040aff",
  panel_grid_linewidth = 1.33,
  panel_background_fill = "#050d1bff",
  plot_background_fill = "#00040aff",
  legend_axis_line_colour = plot_background_fill,
  legend_axis_line_linewidth = 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)),
  orientation = NULL,
  ...
)

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,
  axis_ticks_length_x = grid::unit(base_size/3, "pt"),
  axis_ticks_length_y = grid::unit(base_size/4, "pt"),
  panel_grid_colour = "#00040aff",
  panel_grid_linewidth = 1.33,
  panel_background_fill = "#050d1bff",
  plot_background_fill = "#00040aff",
  legend_axis_line_colour = plot_background_fill,
  legend_axis_line_linewidth = 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)),
  orientation = NULL,
  ...
)

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,
  axis_ticks_length_x = grid::unit(base_size/3, "pt"),
  axis_ticks_length_y = grid::unit(base_size/4, "pt"),
  panel_grid_colour = "#00040aff",
  panel_grid_linewidth = 1.33,
  panel_background_fill = "#050d1bff",
  plot_background_fill = "#00040aff",
  legend_axis_line_colour = plot_background_fill,
  legend_axis_line_linewidth = 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)),
  orientation = NULL,
  ...
)

dark_mode_n(
  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,
  axis_ticks_length_x = grid::unit(base_size/3, "pt"),
  axis_ticks_length_y = grid::unit(base_size/4, "pt"),
  panel_grid_colour = "#00040aff",
  panel_grid_linewidth = 1.33,
  panel_background_fill = "#050d1bff",
  plot_background_fill = "#00040aff",
  legend_axis_line_colour = plot_background_fill,
  legend_axis_line_linewidth = 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)),
  orientation = NULL,
  ...
)
```

Arguments

base_size	The base size of the text theme element. Defaults to 11.
base_family	The base family of the text theme element. Defaults to "".
base_colour	The base colour of the text theme element.
axis_line_colour	The colour of the axis.line theme element.
axis_line_linewidth	The linewidth of the axis.line theme element.
axis_ticks_colour	The colour of the axis.ticks theme element.
axis_ticks_linewidth	The linewidth of the axis.ticks theme element.
axis_ticks_length_x	The length of the axis.ticks.length.x theme element.
axis_ticks_length_y	The length of the axis.ticks.length.y 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.

orientation
: The orientation of the plot. Either "x" or "y". Defaults to NULL. Not intended for use with the mode argument of gg_* functions.

...
: Provided to support trailing commas only.

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()
  )
```

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

---

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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
```

```
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 `*_mode_*` theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects, as the `gg_*` function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, `+` the theme on to the output of `gg_*`.

`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_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_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_limits, y_limits, col_limits`
For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with `factor`, `forcats::fct_expand` or `forcats::fct_drop`.

`x_oob, y_oob, col_oob`
For a continuous scale, a `scales::oob_*` function of how to handle values outside of limits. Defaults to `scales::oob_keep`.

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

`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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

title
: Title string.

subtitle
: Subtitle string.

caption
: Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()
```

```
economics |>
  gg_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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
```

```
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.

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_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_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_limits, y_limits, col_limits
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.

x_oob, y_oob, col_oob
: For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

title
: Title string.

subtitle
: Subtitle string.

caption
: Caption title string.

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

Value

A ggplot object.

Examples

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

```
set_blanket()

penguins |>
  tidyr::drop_na(sex) |>
  mutate(across(sex, \(x) stringr::str_to_sentence(x))) |>
  gg_bar(
    y = species,
    col = sex,
    position = position_dodge(preserve = "single"),
    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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.
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_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_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_limits, y_limits, col_limits	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.
x_oob, y_oob, col_oob	For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.
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_label, y_label, col_label	Label for the axis or legend title. Use + ggplot2::labs(... = NULL) for no title.

`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) if not ordinal. Or otherwise a `scales::pal_*()` function.

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

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

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

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

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

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

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

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

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

`title`
: Title string.

`subtitle`
: Subtitle string.

`caption`
: Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.
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_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_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_limits, y_limits, col_limits	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.
x_oob, y_oob, col_oob	For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

title
: Title string.

subtitle
: Subtitle string.

caption
: Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins %>%
  tidyr::drop_na(sex) %>%
  mutate(across(sex, \(x) stringr::str_to_sentence(x))) %>%
  gg_blanket(
    geom = "violin",
    stat = "ydensity",
    position = "dodge",
    x = sex,
    y = body_mass_g,
    col = sex,
    facet = species,
    mode = grey_mode_b(),
  )
```

---

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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 `*_mode_*` theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects, as the `gg_*` function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, `+` the theme on to the output of `gg_*`.
`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_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_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_limits, y_limits, col_limits
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.

x_oob, y_oob, col_oob
: For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  tidyr::drop_na(sex) |>
  mutate(across(sex, \(x) stringr::str_to_sentence(x))) |>
  gg_boxplot(
    x = flipper_length_mm,
    y = sex,
    col = species,
    mode = light_mode_b(),
  )
```

---

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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 `*_mode_*` theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects, as the `gg_*` function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, `+` the theme on to the output of `gg_*`.
`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_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_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_limits, y_limits, col_limits
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.

x_oob, y_oob, col_oob
: For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  tidyr::drop_na(sex) |>
  mutate(across(sex, \(x) stringr::str_to_sentence(x))) |>
  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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
```

```
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 `*_mode_*` theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects, as the `gg_*` function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, `+` the theme on to the output of `gg_*`.
`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_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_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_limits, y_limits, col_limits
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.

x_oob, y_oob, col_oob
: For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

title Title string.

subtitle Subtitle string.

caption Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
```

```
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 `*_mode_*` theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects, as the `gg_*` function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, `+` the theme on to the output of `gg_*`.
`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_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_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_limits, y_limits, col_limits`
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with `factor`, `forcats::fct_expand` or `forcats::fct_drop`.

`x_oob, y_oob, col_oob`
: For a continuous scale, a `scales::oob_*` function of how to handle values outside of limits. Defaults to `scales::oob_keep`.

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

`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) if not ordinal. Or otherwise a `scales::pal_*()` function.

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

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

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

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

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

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
```

```
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 `*_mode_*` theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects, as the `gg_*` function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, `+` the theme on to the output of `gg_*`.
`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_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_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_limits, y_limits, col_limits`
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with `factor`, `forcats::fct_expand` or `forcats::fct_drop`.

`x_oob, y_oob, col_oob`
: For a continuous scale, a `scales::oob_*` function of how to handle values outside of limits. Defaults to `scales::oob_keep`.

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

`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) if not ordinal. Or otherwise a `scales::pal_*()` function.

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

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

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

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

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

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

data.frame(
  trt = factor(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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
```

```
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will re-

moves selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.

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_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_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_limits, y_limits, col_limits
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.

x_oob, y_oob, col_oob
: For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

title Title string.

subtitle Subtitle string.

caption Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  mutate(across(sex, \(x) stringr::str_to_sentence(x))) |>
  tidyr::drop_na(sex) |>
  gg_density(
    x = flipper_length_mm,
    col = species,
    mode = light_mode_t(),
  )
```

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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
```

```
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will re-

moves selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.

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_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_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_limits, y_limits, col_limits
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.

x_oob, y_oob, col_oob
: For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

title Title string.

subtitle Subtitle string.

caption Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

faithful |>
  gg_density_2d(
    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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
```

```
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will re-

moves selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.

`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_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_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_limits, y_limits, col_limits`
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with `factor`, `forcats::fct_expand` or `forcats::fct_drop`.

`x_oob, y_oob, col_oob`
: For a continuous scale, a `scales::oob_*` function of how to handle values outside of limits. Defaults to `scales::oob_keep`.

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

`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) if not ordinal. Or otherwise a `scales::pal_*()` function.

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

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

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

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

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

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

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

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

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

title Title string.

subtitle Subtitle string.

caption Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

faithful |>
  gg_density_2d_filled(
    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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
```

```
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will re-

moves selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.

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_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_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_limits, y_limits, col_limits
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.

x_oob, y_oob, col_oob
: For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

title — Title string.

subtitle — Subtitle string.

caption — Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

data.frame(
  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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
```

```
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.

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_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_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_limits, y_limits, col_limits
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.

x_oob, y_oob, col_oob
: For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

title
: Title string.

subtitle
: Subtitle string.

caption
: Caption title string.

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

Value

A ggplot object.

Examples

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

```
set_blanket()

penguins |>
  mutate(across(sex, \(x) stringr::str_to_sentence(x))) |>
  gg_freqpoly(
    x = flipper_length_mm,
    col = sex,
    col_label = "",
    mode = light_mode_t(),
  )
```

---

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,
  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_expand = NULL,
```

```
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 `*_mode_*` theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects, as the `gg_*` function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, `+` the theme on to the output of `gg_*`.

`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_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_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_limits, y_limits, col_limits`
For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with `factor`, `forcats::fct_expand` or `forcats::fct_drop`.

`x_oob, y_oob, col_oob`
For a continuous scale, a `scales::oob_*` function of how to handle values outside of limits. Defaults to `scales::oob_keep`.

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

`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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

title
: Title string.

subtitle
: Subtitle string.

caption
: Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()
```

```
gg_function(
  fun = \(x) dnorm(x, mean = 0, sd = 5),
  x_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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
```

```
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.

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_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_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_limits, y_limits, col_limits
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.

x_oob, y_oob, col_oob
: For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

title
: Title string.

subtitle
: Subtitle string.

caption
: Caption title string.

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

Value

A ggplot object.

Examples

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

```
set_blanket()

diamonds |>
  gg_hex(
    x = carat,
    y = price,
    coord = coord_cartesian(clip = "on"),
    y_limits = c(0, 20000),
  )
```

---

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,
  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_expand = NULL,
  x_expand_limits = NULL,
```

```
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 `*_mode_*` theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects, as the `gg_*` function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, `+` the theme on to the output of `gg_*`.

`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_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_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_limits, y_limits, col_limits`
For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with `factor`, `forcats::fct_expand` or `forcats::fct_drop`.

`x_oob, y_oob, col_oob`
For a continuous scale, a `scales::oob_*` function of how to handle values outside of limits. Defaults to `scales::oob_keep`.

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

`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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

title
: Title string.

subtitle
: Subtitle string.

caption
: Caption title string.

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

Value

A ggplot object.

Examples

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

```
set_blanket()

penguins |>
  mutate(across(sex, \(x) stringr::str_to_sentence(x))) |>
  gg_histogram(
    x = flipper_length_mm,
    col = sex,
    facet = species,
    bins = 50,
    mode = light_mode_b(),
  )
```

---

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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.
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_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_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_limits, y_limits, col_limits	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.
x_oob, y_oob, col_oob	For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.
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_label, y_label, col_label	Label for the axis or legend title. Use + ggplot2::labs(... = NULL) for no title.

`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) if not ordinal. Or otherwise a `scales::pal_*()` function.

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

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

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

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

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

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

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

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

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

`title`
: Title string.

`subtitle`
: Subtitle string.

`caption`
: Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.
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_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_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_limits, y_limits, col_limits	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.
x_oob, y_oob, col_oob	For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

title
: Title string.

subtitle
: Subtitle string.

caption
: Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

bind_rows(
  mtcars |> slice_min(order_by = mpg),
  mtcars |> slice_max(order_by = mpg)
) |>
  tibble::rownames_to_column("model") |>
  gg_label(
    x = model,
    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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 `*_mode_*` theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects, as the `gg_*` function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, `+` the theme on to the output of `gg_*`.
`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_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_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_limits, y_limits, col_limits
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.

x_oob, y_oob, col_oob
: For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

---

gg_linerange *Linerange ggplot*

Description

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

Usage

```
gg_linerange(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  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_expand = NULL,
    x_expand_limits = NULL,
    x_labels = NULL,
    x_limits = NULL,
    x_oob = scales::oob_keep,
    x_position = "bottom",
    x_label = NULL,
    x_transform = NULL,
    y_breaks = NULL,
    y_expand = NULL,
    y_expand_limits = NULL,
    y_labels = NULL,
    y_limits = NULL,
    y_oob = scales::oob_keep,
    y_position = "left",
    y_label = NULL,
    y_transform = NULL,
    col_breaks = NULL,
    col_drop = FALSE,
    col_expand_limits = NULL,
    col_labels = NULL,
    col_legend_ncol = NULL,
    col_legend_nrow = NULL,
    col_legend_rev = FALSE,
    col_limits = NULL,
    col_oob = scales::oob_keep,
    col_palette = NULL,
    col_palette_na = NULL,
    col_rescale = scales::rescale(),
    col_steps = FALSE,
    col_label = NULL,
    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 `*_mode_*` theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects, as the `gg_*` function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, `+` the theme on to the output of `gg_*`.
`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_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_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_limits, y_limits, col_limits
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.

x_oob, y_oob, col_oob
: For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

data.frame(
  trt = factor(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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
```

```
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.
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_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_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_limits, y_limits, col_limits`
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with `factor`, `forcats::fct_expand` or `forcats::fct_drop`.

`x_oob, y_oob, col_oob`
: For a continuous scale, a `scales::oob_*` function of how to handle values outside of limits. Defaults to `scales::oob_keep`.

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

`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) if not ordinal. Or otherwise a `scales::pal_*()` function.

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

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

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

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

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

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

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

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

economics |>
  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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
```

```
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 `*_mode_*` theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects, as the `gg_*` function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, `+` the theme on to the output of `gg_*`.
`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_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_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_limits, y_limits, col_limits
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.

x_oob, y_oob, col_oob
: For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

Value

A ggplot object.

Examples

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

set_blanket()

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

---

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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
```

```
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 `*_mode_*` theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects, as the `gg_*` function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, `+` the theme on to the output of `gg_*`.
`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_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_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_limits, y_limits, col_limits
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.

x_oob, y_oob, col_oob
: For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

data.frame(
  trt = factor(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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
```

```
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will re-

moves selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.

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_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_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_limits, y_limits, col_limits
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.

x_oob, y_oob, col_oob
: For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

title Title string.

subtitle Subtitle string.

caption Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

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

positions <- data.frame(
  id = rep(ids, each = 4),
  x = c(
```

```
    2, 1, 1.1, 2.2, 1, 0, 0.3, 1.1, 2.2, 1.1, 1.2, 2.5, 1.1, 0.3,
    0.5, 1.2, 2.5, 1.2, 1.3, 2.7, 1.2, 0.5, 0.6, 1.3
  ),
  y = c(
    -0.5, 0, 1, 0.5, 0, 0.5, 1.5, 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,
  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_expand = NULL,
x_expand_limits = NULL,
x_labels = NULL,
x_limits = NULL,
x_oob = scales::oob_keep,
x_position = "bottom",
x_label = NULL,
x_transform = NULL,
y_breaks = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_labels = NULL,
y_limits = NULL,
y_oob = scales::oob_keep,
y_position = "left",
y_label = NULL,
y_transform = NULL,
col_breaks = NULL,
col_drop = FALSE,
col_expand_limits = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_oob = scales::oob_keep,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_label = NULL,
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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.
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_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_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_limits, y_limits, col_limits	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.
x_oob, y_oob, col_oob	For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

title
: Title string.

subtitle
: Subtitle string.

caption
: Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

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

---

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,
  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_expand = NULL,
x_expand_limits = NULL,
x_labels = NULL,
x_limits = NULL,
x_oob = scales::oob_keep,
x_position = "bottom",
x_label = NULL,
x_transform = NULL,
y_breaks = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_labels = NULL,
y_limits = NULL,
y_oob = scales::oob_keep,
y_position = "left",
y_label = NULL,
y_transform = NULL,
col_breaks = NULL,
col_drop = FALSE,
col_expand_limits = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_oob = scales::oob_keep,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_label = NULL,
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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.
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_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_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_limits, y_limits, col_limits	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.

x_oob, y_oob, col_oob
: For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

title
: Title string.

subtitle
: Subtitle string.

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

Value

A ggplot object.

Examples

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

  set_blanket()

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

---

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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.
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_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_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_limits, y_limits, col_limits	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.

x_oob, y_oob, col_oob
: For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

title
: Title string.

subtitle
: Subtitle string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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,
  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_expand = NULL,
x_expand_limits = NULL,
x_labels = NULL,
x_limits = NULL,
x_oob = scales::oob_keep,
x_position = "bottom",
x_label = NULL,
x_transform = NULL,
y_breaks = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_labels = NULL,
y_limits = NULL,
y_oob = scales::oob_keep,
y_position = "left",
y_label = NULL,
y_transform = NULL,
col_breaks = NULL,
col_drop = FALSE,
col_expand_limits = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_oob = scales::oob_keep,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_label = NULL,
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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.
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_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_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_limits, y_limits, col_limits	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.

x_oob, y_oob, col_oob
: For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

title
: Title string.

subtitle
: Subtitle string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

data.frame(
  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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
```

```
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.
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_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_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_limits, y_limits, col_limits`
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with `factor`, `forcats::fct_expand` or `forcats::fct_drop`.

`x_oob, y_oob, col_oob`
: For a continuous scale, a `scales::oob_*` function of how to handle values outside of limits. Defaults to `scales::oob_keep`.

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

`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) if not ordinal. Or otherwise a `scales::pal_*()` function.

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

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

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

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

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

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

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

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

data.frame(year = 1875:1972, level = as.vector(LakeHuron)) |>
  mutate(level_min = level - 1, level_max = level + 1) |>
  gg_ribbon(
    x = year,
    ymin = level_min,
    ymax = level_max,
    colour = NA,
    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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
```

```
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 `*_mode_*` theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects, as the `gg_*` function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, `+` the theme on to the output of `gg_*`.
`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_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_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_limits, y_limits, col_limits
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.

x_oob, y_oob, col_oob
: For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

Value

A ggplot object.

Examples

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

set_blanket()

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

---

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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
```

```
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 `*_mode_*` theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects, as the `gg_*` function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, `+` the theme on to the output of `gg_*`.
`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_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_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_limits, y_limits, col_limits
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.

x_oob, y_oob, col_oob
: For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

title Title string.

subtitle Subtitle string.

caption Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

data.frame(x1 = 2.62, x2 = 3.57, y1 = 21.0, y2 = 15.0) |>
  gg_segment(
    x = x1,
    xend = x2,
    y = y1,
    yend = y2,
  )
```

---

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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
```

```
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 `*_mode_*` theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects, as the `gg_*` function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, `+` the theme on to the output of `gg_*`.
`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_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_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_limits, y_limits, col_limits
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.

x_oob, y_oob, col_oob
: For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
```

```
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 `*_mode_*` theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects, as the `gg_*` function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, `+` the theme on to the output of `gg_*`.
`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_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_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_limits, y_limits, col_limits`
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with `factor`, `forcats::fct_expand` or `forcats::fct_drop`.

`x_oob, y_oob, col_oob`
: For a continuous scale, a `scales::oob_*` function of how to handle values outside of limits. Defaults to `scales::oob_keep`.

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

`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) if not ordinal. Or otherwise a `scales::pal_*()` function.

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

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

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

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

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

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

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

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

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

title Title string.

subtitle Subtitle string.

caption Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  mutate(across(sex, \(x) stringr::str_to_sentence(x))) |>
  tidyr::drop_na(sex) |>
  gg_smooth(
    x = flipper_length_mm,
    y = body_mass_g,
    col = sex,
    se = TRUE,
  )
```

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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
```

```
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will re-

moves selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.

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_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_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_limits, y_limits, col_limits
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.

x_oob, y_oob, col_oob
: For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

title — Title string.

subtitle — Subtitle string.

caption — Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

economics |>
  gg_step(
    x = date,
    y = unemploy,
    coord = ggplot2::coord_cartesian(clip = "on"),
    x_limits = c(lubridate::ymd("2010-01-01"), lubridate::NA_Date_),
    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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
```

```
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will re-

moves selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.

`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_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_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_limits, y_limits, col_limits`
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with `factor`, `forcats::fct_expand` or `forcats::fct_drop`.

`x_oob, y_oob, col_oob`
: For a continuous scale, a `scales::oob_*` function of how to handle values outside of limits. Defaults to `scales::oob_keep`.

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

`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) if not ordinal. Or otherwise a `scales::pal_*()` function.

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

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

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

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

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

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

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

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

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

title — Title string.

subtitle — Subtitle string.

caption — Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

bind_rows(
  mtcars |> slice_min(order_by = mpg),
  mtcars |> slice_max(order_by = mpg)
) |>
  tibble::rownames_to_column("model") |>
  gg_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,
  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_expand = NULL,
  x_expand_limits = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
```

```
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.

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_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_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_limits, y_limits, col_limits
: For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.

x_oob, y_oob, col_oob
: For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

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

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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

title
: Title string.

subtitle
: Subtitle string.

caption
: Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()
```

```
penguins |>
  mutate(across(sex, \(x) stringr::str_to_sentence(x))) |>
  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,
  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_expand = NULL,
  x_expand_limits = NULL,
```

```
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  x_position = "bottom",
  x_label = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_expand = NULL,
  y_expand_limits = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_oob = scales::oob_keep,
  y_position = "left",
  y_label = NULL,
  y_transform = NULL,
  col_breaks = NULL,
  col_drop = FALSE,
  col_expand_limits = NULL,
  col_labels = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_oob = scales::oob_keep,
  col_palette = NULL,
  col_palette_na = NULL,
  col_rescale = scales::rescale(),
  col_steps = FALSE,
  col_label = NULL,
  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 `*_mode_*` theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects, as the `gg_*` function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, `+` the theme on to the output of `gg_*`.

`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_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_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_limits, y_limits, col_limits`
For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with `factor`, `forcats::fct_expand` or `forcats::fct_drop`.

`x_oob, y_oob, col_oob`
For a continuous scale, a `scales::oob_*` function of how to handle values outside of limits. Defaults to `scales::oob_keep`.

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

`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) if not ordinal. Or otherwise a scales::pal_*() function.

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

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

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

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

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

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

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

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

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

title
: Title string.

subtitle
: Subtitle string.

caption
: Caption title string.

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

Value

A ggplot object.

Examples

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

```
set_blanket()

penguins |>
  tidyr::drop_na(sex) |>
  mutate(across(sex, \(x) stringr::str_to_sentence(x))) |>
  gg_violin(
    x = sex,
    y = body_mass_g,
    col = sex,
    facet = species,
    mode = light_mode_b(),
  )
```

---

grey *A grey colour*

Description

A grey colour.

Usage

```
grey
```

Value

A character vector.

Examples

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

---

grey_mode_r *Grey mode theme family*

Description

A grey mode family of functions:

- `grey_mode_r()` with legend on right
- `grey_mode_t()` with legend on top
- `grey_mode_b()` with legend on bottom
- `grey_mode_n()` with no legend

Usage

```
grey_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,
  axis_ticks_length_x = grid::unit(base_size/3, "pt"),
  axis_ticks_length_y = grid::unit(base_size/4, "pt"),
  panel_grid_colour = "#f6f8faff",
  panel_grid_linewidth = 1.33,
  panel_background_fill = "#fcfdfeff",
  plot_background_fill = "#f6f8faff",
  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)),
  orientation = NULL,
  ...
)

grey_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,
  axis_ticks_length_x = grid::unit(base_size/3, "pt"),
  axis_ticks_length_y = grid::unit(base_size/4, "pt"),
  panel_grid_colour = "#f6f8faff",
  panel_grid_linewidth = 1.33,
  panel_background_fill = "#fcfdfeff",
  plot_background_fill = "#f6f8faff",
  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)),
  orientation = NULL,
```

```
  ...
)

grey_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,
  axis_ticks_length_x = grid::unit(base_size/3, "pt"),
  axis_ticks_length_y = grid::unit(base_size/4, "pt"),
  panel_grid_colour = "#f6f8faff",
  panel_grid_linewidth = 1.33,
  panel_background_fill = "#fcfdfeff",
  plot_background_fill = "#f6f8faff",
  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)),
  orientation = NULL,
  ...
)

grey_mode_n(
  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,
  axis_ticks_length_x = grid::unit(base_size/3, "pt"),
  axis_ticks_length_y = grid::unit(base_size/4, "pt"),
  panel_grid_colour = "#f6f8faff",
  panel_grid_linewidth = 1.33,
  panel_background_fill = "#fcfdfeff",
  plot_background_fill = "#f6f8faff",
  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)),
  orientation = NULL,
  ...
)
```

Arguments

base_size	The base size of the text theme element. Defaults to 11.
base_family	The base family of the text theme element. Defaults to "".
base_colour	The base colour of the text theme element.
axis_line_colour	The colour of the axis.line theme element.
axis_line_linewidth	The linewidth of the axis.line theme element.
axis_ticks_colour	The colour of the axis.ticks theme element.
axis_ticks_linewidth	The linewidth of the axis.ticks theme element.
axis_ticks_length_x	The length of the axis.ticks.length.x theme element.
axis_ticks_length_y	The length of the axis.ticks.length.y 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.
orientation	The orientation of the plot. Either "x" or "y". Defaults to NULL. Not intended for use with the mode argument of gg_* functions.
...	Provided to support trailing commas only.

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 = grey_mode_r()
  )

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

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

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

---

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)
```

`lightness` *Mode colour and linewidth defaults*

Description

`lightness`, `greyness` 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

greyness

darkness

linewidthness
```

Value

A character vector.

Examples

```
scales::show_col(c(lightness, greyness, 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
- `light_mode_n()` with no legend

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,
  axis_ticks_length_x = grid::unit(base_size/3, "pt"),
  axis_ticks_length_y = grid::unit(base_size/4, "pt"),
  panel_grid_colour = "#f6f8faff",
  panel_grid_linewidth = 1.33,
  panel_background_fill = "#ffffffff",
  plot_background_fill = "#ffffffff",
  legend_axis_line_colour = plot_background_fill,
  legend_axis_line_linewidth = 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)),
  orientation = NULL,
  ...
)

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,
  axis_ticks_length_x = grid::unit(base_size/3, "pt"),
  axis_ticks_length_y = grid::unit(base_size/4, "pt"),
  panel_grid_colour = "#f6f8faff",
  panel_grid_linewidth = 1.33,
  panel_background_fill = "#ffffffff",
  plot_background_fill = "#ffffffff",
  legend_axis_line_colour = plot_background_fill,
  legend_axis_line_linewidth = 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)),
  orientation = NULL,
  ...
)

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,
  axis_ticks_length_x = grid::unit(base_size/3, "pt"),
  axis_ticks_length_y = grid::unit(base_size/4, "pt"),
  panel_grid_colour = "#f6f8faff",
  panel_grid_linewidth = 1.33,
  panel_background_fill = "#ffffffff",
  plot_background_fill = "#ffffffff",
  legend_axis_line_colour = plot_background_fill,
  legend_axis_line_linewidth = 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)),
  orientation = NULL,
  ...
)

light_mode_n(
  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,
  axis_ticks_length_x = grid::unit(base_size/3, "pt"),
  axis_ticks_length_y = grid::unit(base_size/4, "pt"),
  panel_grid_colour = "#f6f8faff",
  panel_grid_linewidth = 1.33,
  panel_background_fill = "#ffffffff",
  plot_background_fill = "#ffffffff",
  legend_axis_line_colour = plot_background_fill,
  legend_axis_line_linewidth = 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)),
  orientation = NULL,
  ...
)
```

Arguments

base_size	The base size of the text theme element. Defaults to 11.
base_family	The base family of the text theme element. Defaults to "".
base_colour	The base colour of the text theme element.
axis_line_colour	The colour of the axis.line theme element.
axis_line_linewidth	The linewidth of the axis.line theme element.
axis_ticks_colour	The colour of the axis.ticks theme element.
axis_ticks_linewidth	The linewidth of the axis.ticks theme element.
axis_ticks_length_x	The length of the axis.ticks.length.x theme element.
axis_ticks_length_y	The length of the axis.ticks.length.y 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.

orientation
: The orientation of the plot. Either "x" or "y". Defaults to NULL. Not intended for use with the mode argument of gg_* functions.

...
: Provided to support trailing commas only.

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()
  )

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

`set_blanket` *Set a style*

Description

Set a style by setting a mode, a series of geom and annotate aesthetic defaults, and a col_palette for discrete and continuous scales.

Usage

```
set_blanket(
  mode = light_mode_r(),
  geom_colour = "#357ba2",
  annotate_colour = "#121b24",
  annotate_linewidth = 0.33,
  annotate_family = "",
  annotate_size = 3.88,
  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(orientation = "x"),
  ...
)
```

Arguments

mode	A *_mode_*. E.g. light_mode_t(), grey_mode_r(), or dark_mode_r().
geom_colour	A hex colour (and fill) for most geoms. Fill inherits from this colour. Defaults to blue.

annotate_colour
: A hex colour (and fill) for other geoms commonly used for annotation (i.e. *_hline/*_vline/*_abline and *_curve). Defaults to "#121b24" (i.e. lightness[1]).

annotate_linewidth
: A linewidth for *_hline/*_vline/*_abline and *_curve. Defaults to 0.33.

annotate_family
: A family for *_text and *_label. Defaults to ""

annotate_size
: A size for *_text and *_label. Defaults to 3.88.

col_palette_d
: For a discrete scale, a character vector of hex codes (or names) for the col_palette.

col_palette_na_d
: For a discrete scale, a hex code or name for the col_palette_na.

col_palette_c
: For a continuous scale, a character vector of hex codes (or names) for the col_palette.

col_palette_na_c
: For a continuous scale, a hex code or name for the col_palette_na.

col_palette_o
: For an ordinal scale, a scales::pal_*() function for the col_palette.

col_palette_na_o
: For an ordinal scale, a hex code or name for the col_palette_na.

theme
: A ggplot2 theme to be +-ed on unmodified to gg_* functions. Note, mode takes precedence, unless mode = NULL.

...
: Provided to support trailing commas only.

Value

A globally set style.

Examples

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

set_blanket(
  mode = dark_mode_r(),
  geom_colour = orange,
  annotate_colour = darkness[1],
)

penguins |>
  gg_point(
    x = flipper_length_mm,
    y = body_mass_g,
    x_breaks = scales::breaks_pretty(3),
  ) +
  geom_vline(xintercept = 200) +
  annotate("text", x = I(0.25), y = I(0.75), label = "Here")

penguins |>
  gg_histogram(
```

```
  x = flipper_length_mm,
  x_breaks = scales::breaks_pretty(3),
) +
geom_vline(xintercept = 200) +
annotate("text", x = I(0.75), y = I(0.75), label = "Here")
```

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