Package 'ggblanket'

May 25, 2024

Title Simplify 'ggplot2' Visualisation

Version 9.1.0

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, ggpattern, ggtext, glue, paletteer,
showtext, sysfonts

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R **topics documented:**

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aes_contrast *An auto-contrast colour aesthetic*

Description

A colour aesthetic for annotation that automatically contrasts with fill. Can be spliced into [gg-plot2::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,
    position = position_dodge2(preserve = "single"),
    width = 0.75,
    x_labels = \(x) str_to_sentence(x),
  ) +
  geom_text(
    mapping = aes(label = n, !!!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,
    position = position_dodge2(preserve = "single"),
    width = 0.75,
    x_labels = \(x) str_to_sentence(x),
    mode = dark_mode_r(),
  ) +
  geom_text(
    mapping = aes(label = n, !!!aes_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_orientation = NULL,
    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_orientation = NULL,
    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 ggplot2 theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation`	
	`TRUE` or `FALSE` of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.
`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) or a scales::pal_*() function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

economics |>
  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_orientation = NULL,
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_orientation = NULL,
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 ggplot2 theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation	TRUE or FALSE of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.

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) or a scales::pal_*() function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  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_orientation = NULL,
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_orientation = NULL,
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 ggplot2 theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation

> `TRUE` or `FALSE` of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.

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) or a `scales::pal_*()` function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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_orientation = NULL,
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_orientation = NULL,
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 ggplot2 theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation

> `TRUE` or `FALSE` of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.

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) or a `scales::pal_*()` function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins %>%
  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_orientation = NULL,
  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_orientation = NULL,
  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 ggplot2 theme (e.g. [light_mode_t()](#), [grey_mode_r()](#), or [dark_mode_r()](#)). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation

>   `TRUE` or `FALSE` of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.

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) or a `scales::pal_*()` function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  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_orientation = NULL,
  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_orientation = NULL,
    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 ggplot2 theme (e.g. [light_mode_t()](), [grey_mode_r()](), or [dark_mode_r()]()).
                        This argument adds the theme with side-effects of removing relevant axis line/ticks
                        and gridlines per the orientation. 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 out-
                        side of limits. Defaults to scales::oob_keep.

x_orientation, y_orientation
                        TRUE or FALSE of whether the mode and scales orientation should be to x or y.
                        Note, these arguments do not affect the orientation of the layer itself.

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  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_orientation = NULL,
    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_orientation = NULL,
    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 ggplot2 theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation`	`TRUE` or `FALSE` of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.
`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) or a scales::pal_*() function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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_orientation = NULL,
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_orientation = NULL,
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 ggplot2 theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation	
	TRUE or FALSE of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.

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) or a scales::pal_*() function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title Title string.

subtitle Subtitle string.

caption Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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_orientation = NULL,
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_orientation = NULL,
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 ggplot2 theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation

> TRUE or FALSE of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.

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) or a scales::pal_*() function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

data.frame(
  trt = factor(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_orientation = NULL,
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_orientation = NULL,
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 ggplot2 theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation

        `TRUE` or `FALSE` of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.

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) or a `scales::pal_*()` function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  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_orientation = NULL,
  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_orientation = NULL,
  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 ggplot2 theme (e.g. [light_mode_t()](#), [grey_mode_r()](#), or [dark_mode_r()](#)). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation

> `TRUE` or `FALSE` of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.

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) or a `scales::pal_*()` function.

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

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

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

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

facet_axis_labels

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

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

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

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

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

title
> Title string.

subtitle
> Subtitle string.

caption
> Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

faithful |>
  gg_density_2d(
    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_orientation = NULL,
  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_orientation = NULL,
    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 ggplot2 theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`).
                       This argument adds the theme with side-effects of removing relevant axis line/ticks
                       and gridlines per the orientation. 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 out-
                       side of limits. Defaults to `scales::oob_keep`.

x_orientation, y_orientation
                       `TRUE` or `FALSE` of whether the mode and scales orientation should be to x or y.
                       Note, these arguments do not affect the orientation of the layer itself.

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

Value

A ggplot object.

Examples

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

set_blanket()

faithful |>
  gg_density_2d_filled(
    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_orientation = NULL,
  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_orientation = NULL,
    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 ggplot2 theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()).
                  This argument adds the theme with side-effects of removing relevant axis line/ticks
                  and gridlines per the orientation. 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 out-
                  side of limits. Defaults to scales::oob_keep.

x_orientation, y_orientation
                  TRUE or FALSE of whether the mode and scales orientation should be to x or y.
                  Note, these arguments do not affect the orientation of the layer itself.

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) or a scales::pal_*() function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()
```

```
data.frame(
  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_orientation = NULL,
        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_orientation = NULL,
        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 ggplot2 theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation

> TRUE or FALSE of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.

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) or a scales::pal_*() function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  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_orientation = NULL,
    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_orientation = NULL,
    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 ggplot2 theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation

> `TRUE` or `FALSE` of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.

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) or a `scales::pal_*()` function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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_orientation = NULL,
    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_orientation = NULL,
    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 ggplot2 theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation

        TRUE or FALSE of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.

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) or a `scales::pal_*()` function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

Value

A ggplot object.

Examples

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

set_blanket()

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_orientation = NULL,
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_orientation = NULL,
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 ggplot2 theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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 out-
>   side of limits. Defaults to scales::oob_keep.

x_orientation, y_orientation

>   TRUE or FALSE of whether the mode and scales orientation should be to x or y.
>   Note, these arguments do not affect the orientation of the layer itself.

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) or a scales::pal_*() function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  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_orientation = NULL,
  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_orientation = NULL,
  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 ggplot2 theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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()`](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_orientation, y_orientation

> `TRUE` or `FALSE` of whether the mode and scales orientation should be to x or y.
> Note, these arguments do not affect the orientation of the layer itself.

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()`](scales::transform_log10())) or character string of this minus the `transform_` prefix (e.g. `"log10"`).

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

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

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title Title string.

subtitle Subtitle string.

caption Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

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_orientation = NULL,
  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_orientation = NULL,
    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 ggplot2 theme (e.g. [light_mode_t()](), [grey_mode_r()](), or [dark_mode_r()]()).
                        This argument adds the theme with side-effects of removing relevant axis line/ticks
                        and gridlines per the orientation. 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 out-
                        side of limits. Defaults to scales::oob_keep.

x_orientation, y_orientation
                        TRUE or FALSE of whether the mode and scales orientation should be to x or y.
                        Note, these arguments do not affect the orientation of the layer itself.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

```
gg_label(
  x = model,
  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_orientation = NULL,
    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_orientation = NULL,
    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 ggplot2 theme (e.g. [light_mode_t()](#), [grey_mode_r()](#), or [dark_mode_r()](#)). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation`

`TRUE` or `FALSE` of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.

`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) or a scales::pal_*() function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

gg_linerange   *Linerange ggplot*

Description

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

Usage

```
gg_linerange(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  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_orientation = NULL,
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_orientation = NULL,
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 ggplot2 theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation

> TRUE or FALSE of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.

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) or a scales::pal_*() function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

data.frame(
  trt = factor(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_orientation = NULL,
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_orientation = NULL,
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 ggplot2 theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation

        `TRUE` or `FALSE` of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.

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) or a `scales::pal_*()` function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

---

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_orientation = NULL,
  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_orientation = NULL,
  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 ggplot2 theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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()`](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_orientation, y_orientation

> `TRUE` or `FALSE` of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.

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()`](scales::transform_log10())) or character string of this minus the `transform_` prefix (e.g. `"log10"`).

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

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

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  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_orientation = NULL,
  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_orientation = NULL,
    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 ggplot2 theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`).
                        This argument adds the theme with side-effects of removing relevant axis line/ticks
                        and gridlines per the orientation. 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 out-
                        side of limits. Defaults to `scales::oob_keep`.

x_orientation, y_orientation
                        `TRUE` or `FALSE` of whether the mode and scales orientation should be to x or y.
                        Note, these arguments do not affect the orientation of the layer itself.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

data.frame(
  trt = factor(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_orientation = NULL,
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_orientation = NULL,
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 ggplot2 theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation
:   TRUE or FALSE of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.

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) or a scales::pal_*() function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

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

positions <- data.frame(
  id = rep(ids, each = 4),
  x = c(
    2, 1, 1.1, 2.2, 1, 0, 0.3, 1.1, 2.2, 1.1, 1.2, 2.5, 1.1, 0.3,
    0.5, 1.2, 2.5, 1.2, 1.3, 2.7, 1.2, 0.5, 0.6, 1.3
  ),
  y = c(
    -0.5, 0, 1, 0.5, 0, 0.5, 1.5, 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_orientation = NULL,
  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_orientation = NULL,
  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 ggplot2 theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation

     `TRUE` or `FALSE` of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.

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) or a `scales::pal_*()` function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  gg_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_orientation = NULL,
  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_orientation = NULL,
    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()`](ggplot2::coord_cartesian())).

mode   A ggplot2 theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`).
                   This argument adds the theme with side-effects of removing relevant axis line/ticks
                   and gridlines per the orientation. 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 out-
                   side of limits. Defaults to `scales::oob_keep`.

x_orientation, y_orientation
                   `TRUE` or `FALSE` of whether the mode and scales orientation should be to x or y.
                   Note, these arguments do not affect the orientation of the layer itself.

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

Value

A ggplot object.

Examples

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

  set_blanket()

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

```
    )
  }
```

---

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_orientation = NULL,
  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_orientation = NULL,
    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 ggplot2 theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()).
               This argument adds the theme with side-effects of removing relevant axis line/ticks
               and gridlines per the orientation. 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 out-
               side of limits. Defaults to scales::oob_keep.

x_orientation, y_orientation
               TRUE or FALSE of whether the mode and scales orientation should be to x or y.
               Note, these arguments do not affect the orientation of the layer itself.

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) or a scales::pal_*() function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()
```

```
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_orientation = NULL,
    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_orientation = NULL,
    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 ggplot2 theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation	
	TRUE or FALSE of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.
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) or a scales::pal_*() function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

data.frame(
  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()`](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_orientation = NULL,
  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_orientation = NULL,
  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 ggplot2 theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation

>`TRUE` or `FALSE` of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.

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()`](scales::transform_log10())) or character string of this minus the `transform_` prefix (e.g. `"log10"`).

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

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

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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_orientation = NULL,
  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_orientation = NULL,
  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 ggplot2 theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation

> `TRUE` or `FALSE` of whether the mode and scales orientation should be to x or y.
> Note, these arguments do not affect the orientation of the layer itself.

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) or a `scales::pal_*()` function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  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_orientation = NULL,
  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_orientation = NULL,
    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 ggplot2 theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`).
                     This argument adds the theme with side-effects of removing relevant axis line/ticks
                     and gridlines per the orientation. 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 out-
                     side of limits. Defaults to `scales::oob_keep`.

x_orientation, y_orientation
                     `TRUE` or `FALSE` of whether the mode and scales orientation should be to x or y.
                     Note, these arguments do not affect the orientation of the layer itself.

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

Value

A ggplot object.

Examples

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

set_blanket()

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

```
    y = y1,
    yend = y2,
  )
```

---

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_orientation = NULL,
  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_orientation = NULL,
    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 ggplot2 theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation

TRUE or FALSE of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.

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) or a scales::pal_*() function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()
```

```
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_orientation = NULL,
    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_orientation = NULL,
    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 ggplot2 theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation`	`TRUE` or `FALSE` of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.
`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) or a scales::pal_*() function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
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_orientation = NULL,
  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_orientation = NULL,
  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 ggplot2 theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation

> TRUE or FALSE of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.

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) or a scales::pal_*() function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

economics |>
  gg_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_orientation = NULL,
        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_orientation = NULL,
        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 ggplot2 theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation

> `TRUE` or `FALSE` of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.

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) or a `scales::pal_*()` function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

bind_rows(
  mtcars |> slice_min(order_by = mpg),
  mtcars |> slice_max(order_by = mpg)
) |>
  tibble::rownames_to_column("model") |>
  gg_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_orientation = NULL,
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_orientation = NULL,
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 ggplot2 theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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 out-
        side of limits. Defaults to `scales::oob_keep`.

x_orientation, y_orientation

        `TRUE` or `FALSE` of whether the mode and scales orientation should be to x or y.
        Note, these arguments do not affect the orientation of the layer itself.

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()`](scales::transform_log10()))
        or character string of this minus the `transform_` prefix (e.g. `"log10"`).

col_drop, facet_drop

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

col_legend_ncol, col_legend_nrow

        The number of columns and rows in a legend guide.

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

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

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  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_orientation = NULL,
  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_orientation = NULL,
  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 ggplot2 theme (e.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`). This argument adds the theme with side-effects of removing relevant axis line/ticks and gridlines per the orientation. 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_orientation, y_orientation

> TRUE or FALSE of whether the mode and scales orientation should be to x or y. Note, these arguments do not affect the orientation of the layer itself.

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) or a scales::pal_*() function.

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

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

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

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

facet_axis_labels

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

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

facet_ncol, facet_nrow

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

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

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

title   Title string.

subtitle   Subtitle string.

caption   Caption title string.

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  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)
```

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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