

Package ‘ggblanket’

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Title Simplify 'ggplot2' Visualisation

Version 11.0.0

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

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

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

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aes_colour_contrast *A colour aesthetic for contrast*

Description

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

Usage

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

Arguments

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

Value

A `ggplot2` aesthetic

Examples

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

set_blanket()

penguins |>
  count(species, sex) |>
  gg_col(
    x = sex,
    y = n,
    col = species,
    label = n,
    position = position_dodge(preserve = "single"),
    width = 0.75,
```

```

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

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

```

aes_colour_darken *Lighten/darken a colour/fill aesthetic*

Description

Lighten/darken a colour/fill aesthetic based on a

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

Usage

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

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

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

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

Arguments

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

Value

A ggplot2 aesthetic

Examples

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

set_blanket(
  alpha_recursive = 1,
)

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

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

blue

A blue colour

Description

A blue colour.

Usage

```
blue
```

Value

A character vector.

Examples

```
scales::show_col(blue)
```

dark_mode_r	<i>Dark mode theme family</i>
-------------	-------------------------------

Description

A dark mode family of functions:

- dark_mode_r() with legend on right
- dark_mode_t() with legend on top
- dark_mode_b() with legend on bottom

Usage

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

dark_mode_t(
  ...,
  base_size = 11,
  base_family = "",
  base_colour = "#C8D7DFFF",
  axis_line_colour = "#C8D7DFFF",
  axis_line_linewidth = 0.33,
  axis_ticks_colour = axis_line_colour,
```

```

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

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

```

Arguments

...	Provided to force user argument naming etc.
base_size	The base size of the text theme element. Defaults to 11.
base_family	The base family of the text theme element. Defaults to "".
base_colour	The base colour of the text theme element.
axis_line_colour	The colour of the axis.line theme element.
axis_line_linewidth	The linewidth of the axis.line theme element.
axis_ticks_colour	The colour of the axis.ticks theme element.

`axis_ticks_linewidth`
The linewidth of the `axis.ticks` theme element.

`panel_grid_colour`
The colour of the `panel.grid` theme element.

`panel_grid_linewidth`
The linewidth of the `panel.grid` theme element.

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

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

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

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

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

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

`legend_ticks_colour`
The colour of the `legend.ticks` theme element.

`legend_ticks_linewidth`
The linewidth of the `legend.ticks` theme element.

`legend_ticks_length`
The `legend.ticks.length` theme element.

Value

A ggplot theme.

Examples

```
library(palmerpenguins)
library(ggplot2)

set_blanket()

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

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

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

gg_area

Area ggplot

Description

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

Usage

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

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

Arguments

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

<code>x_symmetric, y_symmetric</code>	TRUE or FALSE of whether a symmetric scale.
<code>x_transform, y_transform, col_transform</code>	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_</code> prefix (e.g. "log10").
<code>col_drop, facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol, col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*()</code> function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale()</code> function.
<code>col_steps</code>	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
<code>facet_axes</code>	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + <code>*_mode_*</code> () may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
<code>facet_ncol, facet_nrow</code>	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	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".
<code>facet_space</code>	When the facet scales are <i>not</i> "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".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>label_to_case</code>	A function to format the default <code>x_label</code> , <code>y_label</code> and <code>col_label</code> of unlabelled variables. Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

gg_bar

Bar ggplot

Description

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

Usage

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

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

```

  label_to_case = snakecase::to_sentence_case
)

```

Arguments

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

<code>x_sec_axis, y_sec_axis</code>	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
<code>x_symmetric, y_symmetric</code>	TRUE or FALSE of whether a symmetric scale.
<code>x_transform, y_transform, col_transform</code>	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_prefix</code> (e.g. "log10").
<code>col_drop, facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol, col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*()</code> function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale()</code> function.
<code>col_steps</code>	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
<code>facet_axes</code>	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + <code>*_mode_*</code> () may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
<code>facet_ncol, facet_nrow</code>	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	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".
<code>facet_space</code>	When the facet scales are <i>not</i> "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".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>label_to_case</code>	A function to format the default <code>x_label</code> , <code>y_label</code> and <code>col_label</code> of unlabelled variables. Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

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

set_blanket()

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

`gg_bin_2d`*Bin_2d ggplot*

Description

Create a bin2d ggplot with a wrapper around `ggplot2::ggplot() + geom_bin_2d()`.

Usage

```
gg_bin_2d(
  data = NULL,
  ...,
  stat = "bin2d",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
```

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

```

  label_to_case = snakecase::to_sentence_case
)

```

Arguments

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

<code>x_sec_axis, y_sec_axis</code>	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
<code>x_symmetric, y_symmetric</code>	TRUE or FALSE of whether a symmetric scale.
<code>x_transform, y_transform, col_transform</code>	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_</code> prefix (e.g. <code>"log10"</code>).
<code>col_drop, facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol, col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*()</code> function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale()</code> function.
<code>col_steps</code>	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
<code>facet_axes</code>	Whether to add interior axes and ticks with <code>"margins"</code> , <code>"all"</code> , <code>"all_x"</code> , or <code>"all_y"</code> . Sometimes + <code>*_mode_*</code> () may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with <code>"margins"</code> , <code>"all"</code> , <code>"all_x"</code> , or <code>"all_y"</code> .
<code>facet_layout</code>	Whether the layout is to be <code>"wrap"</code> or <code>"grid"</code> . If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to <code>"wrap"</code> . If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to <code>"grid"</code> .
<code>facet_ncol, facet_nrow</code>	The number of columns and rows of facet panels. Only applies to a facet layout of <code>"wrap"</code> .
<code>facet_scales</code>	Whether facet scales should be <code>"fixed"</code> across facets, <code>"free"</code> in both directions, or free in just one direction (i.e. <code>"free_x"</code> or <code>"free_y"</code>). Defaults to <code>"fixed"</code> .
<code>facet_space</code>	When the facet scales are <i>not</i> <code>"fixed"</code> , whether facet space should be <code>"fixed"</code> across facets, <code>"free"</code> to be proportional in both directions, or free to be proportional in just one direction (i.e. <code>"free_x"</code> or <code>"free_y"</code>). Defaults to <code>"fixed"</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>label_to_case</code>	A function to format the default <code>x_label</code> , <code>y_label</code> and <code>col_label</code> of unlabelled variables. Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

gg_blanket

Blanket ggplot

Description

Create a blanket ggplot with a wrapper around `ggplot2::ggplot() + layer()` with `geom_blank()` defaults. This function underlies all other `gg_*` functions. It contains a `geom` argument for maximum flexibility.

Usage

```
gg_blanket(
  data = NULL,
  ...,
  geom = "blank",
  stat = "identity",
  position = "identity",
  coord = NULL,
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
```

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

```

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

```

Arguments

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

<code>x_position, y_position</code>	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
<code>x_sec_axis, y_sec_axis</code>	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
<code>x_symmetric, y_symmetric</code>	TRUE or FALSE of whether a symmetric scale.
<code>x_transform, y_transform, col_transform</code>	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_</code> prefix (e.g. "log10").
<code>col_drop, facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol, col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*</code> () function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale()</code> function.
<code>col_steps</code>	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
<code>facet_axes</code>	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + <code>*_mode_*</code> () may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
<code>facet_ncol, facet_nrow</code>	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	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".
<code>facet_space</code>	When the facet scales are <i>not</i> "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".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>label_to_case</code>	A function to format the default <code>x_label</code> , <code>y_label</code> and <code>col_label</code> of unlabelled variables. Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

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

set_blanket()

penguins %>%
  gg_blanket(
    geom = "violin",
    stat = "ydensity",
    position = "dodge",
    x = species,
    y = body_mass_g,
    col = sex,
  )
```

gg_boxplot

Boxplot ggplot

Description

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

Usage

```
gg_boxplot(
  data = NULL,
  ...,
  stat = "boxplot",
  position = "dodge2",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
```

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

```

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

```

Arguments

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

<code>x_labels, y_labels, col_labels, facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*()</code>), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
<code>x_position, y_position</code>	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
<code>x_sec_axis, y_sec_axis</code>	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
<code>x_symmetric, y_symmetric</code>	TRUE or FALSE of whether a symmetric scale.
<code>x_transform, y_transform, col_transform</code>	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_*</code> prefix (e.g. "log10").
<code>col_drop, facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol, col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*()</code> function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale()</code> function.
<code>col_steps</code>	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
<code>facet_axes</code>	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + <code>*_mode_*</code> may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
<code>facet_ncol, facet_nrow</code>	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	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".
<code>facet_space</code>	When the facet scales are <i>not</i> "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".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.

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

Value

A ggplot object.

Examples

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

set_blanket()

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

gg_col

Col ggplot

Description

Create a col ggplot with a wrapper around `ggplot2::ggplot() + geom_col()`.

Usage

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

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

```

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

```

Arguments

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

<code>x_label, y_label, col_label</code>	Label for the axis or legend title. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<code>x_labels, y_labels, col_labels, facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*()</code>), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
<code>x_position, y_position</code>	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
<code>x_sec_axis, y_sec_axis</code>	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
<code>x_symmetric, y_symmetric</code>	TRUE or FALSE of whether a symmetric scale.
<code>x_transform, y_transform, col_transform</code>	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_*</code> prefix (e.g. "log10").
<code>col_drop, facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol, col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*()</code> function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale()</code> function.
<code>col_steps</code>	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
<code>facet_axes</code>	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes <code>+ *_mode_*</code> may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
<code>facet_ncol, facet_nrow</code>	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	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".
<code>facet_space</code>	When the facet scales are <i>not</i> "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  tidyr::drop_na(sex) |>
  group_by(sex, species) |>
  summarise(across(flipper_length_mm, \(x) mean(x, na.rm = TRUE))) |>
  gg_col(
    x = flipper_length_mm,
    y = species,
    col = sex,
    position = position_dodge(preserve = "single"),
    width = 0.75,
  )
```

gg_contour

Contour ggplot

Description

Create a contour ggplot with a wrapper around `ggplot2::ggplot() + geom_contour()`.

Usage

```
gg_contour(
  data = NULL,
  ...,
  stat = "contour",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
```

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

```

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

```

Arguments

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

<code>x_expand, y_expand</code>	Padding to the limits with the <code>ggplot2::expansion()</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_expand_limits, y_expand_limits, col_expand_limits</code>	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with <code>forcats::fct_expand</code> .
<code>x_label, y_label, col_label</code>	Label for the axis or legend title. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<code>x_labels, y_labels, col_labels, facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*()</code>), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
<code>x_position, y_position</code>	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
<code>x_sec_axis, y_sec_axis</code>	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
<code>x_symmetric, y_symmetric</code>	TRUE or FALSE of whether a symmetric scale.
<code>x_transform, y_transform, col_transform</code>	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_</code> prefix (e.g. "log10").
<code>col_drop, facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol, col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*()</code> function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale()</code> function.
<code>col_steps</code>	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
<code>facet_axes</code>	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes <code>+ *_mode_*</code> may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
<code>facet_ncol, facet_nrow</code>	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

gg_contour_filled *Contour_filled ggplot*

Description

Create a contour_filled ggplot with a wrapper around `ggplot2::ggplot() + geom_contour_filled()`.

Usage

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

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

```

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

```

Arguments

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

<code>x_expand, y_expand</code>	Padding to the limits with the <code>ggplot2::expansion()</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_expand_limits, y_expand_limits, col_expand_limits</code>	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with <code>forcats::fct_expand</code> .
<code>x_label, y_label, col_label</code>	Label for the axis or legend title. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<code>x_labels, y_labels, col_labels, facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*()</code>), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
<code>x_position, y_position</code>	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
<code>x_sec_axis, y_sec_axis</code>	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
<code>x_symmetric, y_symmetric</code>	TRUE or FALSE of whether a symmetric scale.
<code>x_transform, y_transform, col_transform</code>	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_</code> prefix (e.g. "log10").
<code>col_drop, facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol, col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*()</code> function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale()</code> function.
<code>col_steps</code>	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
<code>facet_axes</code>	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes <code>+ *_mode_*</code> may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
<code>facet_ncol, facet_nrow</code>	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

faithfuld |>
  gg_contour_filled(
    x = waiting,
    y = eruptions,
    z = density,
    bins = 8,
  )
```

 gg_crossbar

Crossbar ggplot

Description

Create a crossbar ggplot with a wrapper around `ggplot2::ggplot() + geom_crossbar()`.

Usage

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

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

```

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

```

Arguments

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

<code>x_breaks_n, y_breaks_n, col_breaks_n</code>	A number of desired breaks for when <code>*_breaks = NULL</code> .
<code>x_expand, y_expand</code>	Padding to the limits with the <code>ggplot2::expansion()</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_expand_limits, y_expand_limits, col_expand_limits</code>	For a continuous variable, any values that the limits should encompass (e.g. <code>0</code>). For a discrete scale, manipulate the data instead with <code>forcats::fct_expand</code> .
<code>x_label, y_label, col_label</code>	Label for the axis or legend title. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<code>x_labels, y_labels, col_labels, facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*()</code>), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
<code>x_position, y_position</code>	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
<code>x_sec_axis, y_sec_axis</code>	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
<code>x_symmetric, y_symmetric</code>	TRUE or FALSE of whether a symmetric scale.
<code>x_transform, y_transform, col_transform</code>	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_*</code> prefix (e.g. "log10").
<code>col_drop, facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol, col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*()</code> function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale()</code> function.
<code>col_steps</code>	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
<code>facet_axes</code>	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes <code>+ *_mode_*</code> may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

data.frame(
  trt = factor(c(1, 1, 2, 2)),
  resp = c(1, 5, 3, 4),
  group = factor(c(1, 2, 1, 2)),
  upper = c(1.1, 5.3, 3.3, 4.2),
  lower = c(0.8, 4.6, 2.4, 3.6)
) |>
gg_crossbar(
  x = trt,
  y = resp,
  ymin = lower,
  ymax = upper,
  col = group,
  width = 0.5,
  x_label = "Treatment",
  y_label = "Response",
)
```

`gg_density`*Density ggplot*

Description

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

Usage

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

```

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

```

Arguments

data	A data frame or tibble.
...	Other arguments passed to within a params list in <code>layer()</code> .
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 <code>position_*</code> () function that outputs a ggproto Position subclass object (e.g. <code>ggplot2::position_identity()</code>).
coord	A coordinate system. A <code>coord_*</code> () function that outputs a constructed ggproto Coord subclass object (e.g. <code>ggplot2::coord_cartesian()</code>).

mode	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the <code>mode_orientation</code> .
mode_orientation	The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <code>ggplot2::aes()</code> . Intended primarily for non-supported aesthetics (e.g. <code>shape</code> , <code>linetype</code> , <code>linewidth</code> , or <code>size</code>), but can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks	A <code>scales::breaks_*</code> function (e.g. <code>scales::breaks_*</code> ()), or a vector of breaks.
x_breaks_n, y_breaks_n, col_breaks_n	A number of desired breaks for when <code>*_breaks = NULL</code> .
x_expand, y_expand	Padding to the limits with the <code>ggplot2::expansion()</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
x_expand_limits, y_expand_limits, col_expand_limits	For a continuous variable, any values that the limits should encompass (e.g. <code>0</code>). For a discrete scale, manipulate the data instead with <code>forcats::fct_expand</code> .
x_label, y_label, col_label	Label for the axis or legend title. Use <code>+ggplot2::labs(... = NULL)</code> for no title.
x_labels, y_labels, col_labels, facet_labels	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*</code> ()), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
x_position, y_position	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
x_sec_axis, y_sec_axis	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
x_symmetric, y_symmetric	TRUE or FALSE of whether a symmetric scale.
x_transform, y_transform, col_transform	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_</code> 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 <code>scales::pal_*</code> () function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a <code>scales::rescale()</code> 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 + <code>*_mode_*</code> () may be needed.
facet_axis_labels	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
facet_ncol, facet_nrow	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
facet_scales	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
facet_space	When the facet scales are <i>not</i> "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 <code>x_label</code> , <code>y_label</code> and <code>col_label</code> of unlabelled variables. Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

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

set_blanket()

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

gg_density_2d	<i>Density_2d</i> ggplot
---------------	--------------------------

Description

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

Usage

```
gg_density_2d(  
  data = NULL,  
  ...,  
  stat = "density_2d",  
  position = "identity",  
  coord = ggplot2::coord_cartesian(clip = "off"),  
  mode = NULL,  
  mode_orientation = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_breaks_n = NULL,  
  x_expand = NULL,  
  x_expand_limits = NULL,  
  x_label = NULL,  
  x_labels = NULL,  
  x_position = "bottom",  
  x_sec_axis = ggplot2::waiver(),  
  x_symmetric = NULL,  
  x_transform = NULL,  
  y_breaks = NULL,  
  y_breaks_n = NULL,  
)
```

```

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

```

Arguments

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

mode	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.
mode_orientation	The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <code>ggplot2::aes()</code> . 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 <code>scales::breaks_*</code> function (e.g. <code>scales::breaks_*</code> ()), or a vector of breaks.
x_breaks_n, y_breaks_n, col_breaks_n	A number of desired breaks for when <code>*_breaks = NULL</code> .
x_expand, y_expand	Padding to the limits with the <code>ggplot2::expansion()</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
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 <code>forcats::fct_expand</code> .
x_label, y_label, col_label	Label for the axis or legend title. Use + <code>ggplot2::labs(... = NULL)</code> for no title.
x_labels, y_labels, col_labels, facet_labels	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*</code> ()), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
x_position, y_position	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
x_sec_axis, y_sec_axis	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
x_symmetric, y_symmetric	TRUE or FALSE of whether a symmetric scale.
x_transform, y_transform, col_transform	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_</code> 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.

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

Value

A ggplot object.

Examples

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

set_blanket()

faithful |>
  gg_density_2d(
    x = waiting,
    y = eruptions,
    bins = 8,
    contour = TRUE,
  )
```

gg_density_2d_filled *Density_2d_filled* ggplot

Description

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

Usage

```
gg_density_2d_filled(  
  data = NULL,  
  ...,  
  stat = "density_2d_filled",  
  position = "identity",  
  coord = ggplot2::coord_cartesian(clip = "off"),  
  mode = NULL,  
  mode_orientation = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_breaks_n = NULL,  
  x_expand = NULL,  
  x_expand_limits = NULL,  
  x_label = NULL,  
  x_labels = NULL,  
  x_position = "bottom",  
  x_sec_axis = ggplot2::waiver(),  
  x_symmetric = NULL,  
  x_transform = NULL,  
  y_breaks = NULL,  
  y_breaks_n = NULL,  
)
```

```

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

```

Arguments

data	A data frame or tibble.
...	Other arguments passed to within a params list in <code>layer()</code> .
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 <code>position_*</code> () function that outputs a ggproto Position subclass object (e.g. <code>ggplot2::position_identity()</code>).
coord	A coordinate system. A <code>coord_*</code> () function that outputs a constructed ggproto Coord subclass object (e.g. <code>ggplot2::coord_cartesian()</code>).

mode	A <code>ggplot2</code> theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the <code>mode_orientation</code> .
mode_orientation	The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <code>ggplot2::aes()</code> . Intended primarily for non-supported aesthetics (e.g. <code>shape</code> , <code>linetype</code> , <code>linewidth</code> , or <code>size</code>), but can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks	A <code>scales::breaks_*</code> function (e.g. <code>scales::breaks_*</code> ()), or a vector of breaks.
x_breaks_n, y_breaks_n, col_breaks_n	A number of desired breaks for when <code>*_breaks = NULL</code> .
x_expand, y_expand	Padding to the limits with the <code>ggplot2::expansion()</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
x_expand_limits, y_expand_limits, col_expand_limits	For a continuous variable, any values that the limits should encompass (e.g. <code>0</code>). For a discrete scale, manipulate the data instead with <code>forcats::fct_expand</code> .
x_label, y_label, col_label	Label for the axis or legend title. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
x_labels, y_labels, col_labels, facet_labels	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*</code> ()), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
x_position, y_position	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
x_sec_axis, y_sec_axis	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
x_symmetric, y_symmetric	TRUE or FALSE of whether a symmetric scale.
x_transform, y_transform, col_transform	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_prefix</code> (e.g. "log10").
col_drop, facet_drop	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol, col_legend_nrow	The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

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

Value

A ggplot object.

Examples

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

set_blanket()

faithful |>
  gg_density_2d_filled(
    x = waiting,
    y = eruptions,
    bins = 8,
    contour = TRUE,
  )
```

`gg_errorbar`*Errorbar ggplot*

Description

Create a errorbar ggplot with a wrapper around `ggplot2::ggplot() + geom_errorbar()`.

Usage

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

```

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

```

Arguments

data	A data frame or tibble.
...	Other arguments passed to within a params list in <code>layer()</code> .
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 <code>position_*()</code> function that outputs a ggproto Position subclass object (e.g. <code>ggplot2::position_identity()</code>).
coord	A coordinate system. A <code>coord_*()</code> function that outputs a constructed ggproto Coord subclass object (e.g. <code>ggplot2::coord_cartesian()</code>).

mode	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the <code>mode_orientation</code> .
mode_orientation	The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <code>ggplot2::aes()</code> . Intended primarily for non-supported aesthetics (e.g. <code>shape</code> , <code>linetype</code> , <code>linewidth</code> , or <code>size</code>), but can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks	A <code>scales::breaks_*</code> function (e.g. <code>scales::breaks_*</code> ()), or a vector of breaks.
x_breaks_n, y_breaks_n, col_breaks_n	A number of desired breaks for when <code>*_breaks = NULL</code> .
x_expand, y_expand	Padding to the limits with the <code>ggplot2::expansion()</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
x_expand_limits, y_expand_limits, col_expand_limits	For a continuous variable, any values that the limits should encompass (e.g. <code>0</code>). For a discrete scale, manipulate the data instead with <code>forcats::fct_expand</code> .
x_label, y_label, col_label	Label for the axis or legend title. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
x_labels, y_labels, col_labels, facet_labels	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*</code> ()), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
x_position, y_position	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
x_sec_axis, y_sec_axis	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
x_symmetric, y_symmetric	TRUE or FALSE of whether a symmetric scale.
x_transform, y_transform, col_transform	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_</code> 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.

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

Value

A ggplot object.

Examples

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

set_blanket()

data.frame(
  trt = factor(c(1, 1, 2, 2)),
  resp = c(1, 5, 3, 4),
  group = factor(c(1, 2, 1, 2)),
  upper = c(1.1, 5.3, 3.3, 4.2),
  lower = c(0.8, 4.6, 2.4, 3.6)
) |>
```

```
gg_errorbar(  
  x = trt,  
  ymin = lower,  
  ymax = upper,  
  col = group,  
  width = 0.1,  
  x_label = "Treatment",  
  y_label = "Response",  
)
```

gg_freqpoly

Freqpoly ggplot

Description

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

Usage

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

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

Arguments

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

<code>x_symmetric, y_symmetric</code>	TRUE or FALSE of whether a symmetric scale.
<code>x_transform, y_transform, col_transform</code>	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_</code> prefix (e.g. "log10").
<code>col_drop, facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol, col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*()</code> function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale()</code> function.
<code>col_steps</code>	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
<code>facet_axes</code>	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + <code>*_mode_*</code> () may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
<code>facet_ncol, facet_nrow</code>	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	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".
<code>facet_space</code>	When the facet scales are <i>not</i> "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".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>label_to_case</code>	A function to format the default <code>x_label</code> , <code>y_label</code> and <code>col_label</code> of unlabelled variables. Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

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

set_blanket()

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

gg_function

Function ggplot

Description

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

Usage

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

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

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

Arguments

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

<code>x_sec_axis, y_sec_axis</code>	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
<code>x_symmetric, y_symmetric</code>	TRUE or FALSE of whether a symmetric scale.
<code>x_transform, y_transform, col_transform</code>	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_</code> prefix (e.g. "log10").
<code>col_drop, facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol, col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*()</code> function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale()</code> function.
<code>col_steps</code>	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
<code>facet_axes</code>	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + <code>*_mode_*</code> () may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
<code>facet_ncol, facet_nrow</code>	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	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".
<code>facet_space</code>	When the facet scales are <i>not</i> "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".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>label_to_case</code>	A function to format the default <code>x_label</code> , <code>y_label</code> and <code>col_label</code> of unlabelled variables. Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

gg_hex

Hex ggplot

Description

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

Usage

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

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

)

Arguments

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

<code>x_sec_axis, y_sec_axis</code>	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
<code>x_symmetric, y_symmetric</code>	TRUE or FALSE of whether a symmetric scale.
<code>x_transform, y_transform, col_transform</code>	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_</code> prefix (e.g. <code>"log10"</code>).
<code>col_drop, facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol, col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*()</code> function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale()</code> function.
<code>col_steps</code>	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
<code>facet_axes</code>	Whether to add interior axes and ticks with <code>"margins"</code> , <code>"all"</code> , <code>"all_x"</code> , or <code>"all_y"</code> . Sometimes + <code>*_mode_*</code> () may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with <code>"margins"</code> , <code>"all"</code> , <code>"all_x"</code> , or <code>"all_y"</code> .
<code>facet_layout</code>	Whether the layout is to be <code>"wrap"</code> or <code>"grid"</code> . If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to <code>"wrap"</code> . If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to <code>"grid"</code> .
<code>facet_ncol, facet_nrow</code>	The number of columns and rows of facet panels. Only applies to a facet layout of <code>"wrap"</code> .
<code>facet_scales</code>	Whether facet scales should be <code>"fixed"</code> across facets, <code>"free"</code> in both directions, or free in just one direction (i.e. <code>"free_x"</code> or <code>"free_y"</code>). Defaults to <code>"fixed"</code> .
<code>facet_space</code>	When the facet scales are <i>not</i> <code>"fixed"</code> , whether facet space should be <code>"fixed"</code> across facets, <code>"free"</code> to be proportional in both directions, or free to be proportional in just one direction (i.e. <code>"free_x"</code> or <code>"free_y"</code>). Defaults to <code>"fixed"</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>label_to_case</code>	A function to format the default <code>x_label</code> , <code>y_label</code> and <code>col_label</code> of unlabelled variables. Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

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

set_blanket()

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

gg_histogram

Histogram ggplot

Description

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

Usage

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

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

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

Arguments

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

<code>x_sec_axis, y_sec_axis</code>	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
<code>x_symmetric, y_symmetric</code>	TRUE or FALSE of whether a symmetric scale.
<code>x_transform, y_transform, col_transform</code>	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_</code> prefix (e.g. "log10").
<code>col_drop, facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol, col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*()</code> function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale()</code> function.
<code>col_steps</code>	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
<code>facet_axes</code>	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + <code>*_mode_*</code> () may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
<code>facet_ncol, facet_nrow</code>	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	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".
<code>facet_space</code>	When the facet scales are <i>not</i> "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".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>label_to_case</code>	A function to format the default <code>x_label</code> , <code>y_label</code> and <code>col_label</code> of unlabelled variables. Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

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

set_blanket()

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

gg_jitter

Jitter ggplot

Description

Create a jitter ggplot with a wrapper around `ggplot2::ggplot() + geom_jitter()`.

Usage

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

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

```

caption = NULL,
label_to_case = snakecase::to_sentence_case
)

```

Arguments

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

<code>x_position, y_position</code>	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
<code>x_sec_axis, y_sec_axis</code>	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
<code>x_symmetric, y_symmetric</code>	TRUE or FALSE of whether a symmetric scale.
<code>x_transform, y_transform, col_transform</code>	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_</code> prefix (e.g. "log10").
<code>col_drop, facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol, col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*</code> () function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale()</code> function.
<code>col_steps</code>	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
<code>facet_axes</code>	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + <code>*_mode_*</code> () may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
<code>facet_ncol, facet_nrow</code>	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	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".
<code>facet_space</code>	When the facet scales are <i>not</i> "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".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>label_to_case</code>	A function to format the default <code>x_label</code> , <code>y_label</code> and <code>col_label</code> of unlabelled variables. Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

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

set_blanket()

set.seed(123)

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

gg_label

Label ggplot

Description

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

Usage

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

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

```

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

```

Arguments

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

<code>x_label, y_label, col_label</code>	Label for the axis or legend title. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<code>x_labels, y_labels, col_labels, facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*()</code>), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
<code>x_position, y_position</code>	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
<code>x_sec_axis, y_sec_axis</code>	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
<code>x_symmetric, y_symmetric</code>	TRUE or FALSE of whether a symmetric scale.
<code>x_transform, y_transform, col_transform</code>	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_*</code> prefix (e.g. "log10").
<code>col_drop, facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol, col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*()</code> function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale()</code> function.
<code>col_steps</code>	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
<code>facet_axes</code>	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes <code>+ *_mode_*</code> may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
<code>facet_ncol, facet_nrow</code>	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	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".
<code>facet_space</code>	When the facet scales are <i>not</i> "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

gg_line

Line ggplot

Description

Create a line ggplot with a wrapper around `ggplot2::ggplot() + geom_line()`.

Usage

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

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

```

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

```

Arguments

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

<code>x_breaks_n, y_breaks_n, col_breaks_n</code>	A number of desired breaks for when <code>*_breaks = NULL</code> .
<code>x_expand, y_expand</code>	Padding to the limits with the <code>ggplot2::expansion()</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_expand_limits, y_expand_limits, col_expand_limits</code>	For a continuous variable, any values that the limits should encompass (e.g. <code>0</code>). For a discrete scale, manipulate the data instead with <code>forcats::fct_expand</code> .
<code>x_label, y_label, col_label</code>	Label for the axis or legend title. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<code>x_labels, y_labels, col_labels, facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*()</code>), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
<code>x_position, y_position</code>	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
<code>x_sec_axis, y_sec_axis</code>	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
<code>x_symmetric, y_symmetric</code>	TRUE or FALSE of whether a symmetric scale.
<code>x_transform, y_transform, col_transform</code>	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_*</code> prefix (e.g. "log10").
<code>col_drop, facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol, col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*()</code> function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale()</code> function.
<code>col_steps</code>	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
<code>facet_axes</code>	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes <code>+ *_mode_*</code> may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

gg_linerange

Linerange ggplot

Description

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

Usage

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

```

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

```

Arguments

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

mapping	A set of additional aesthetic mappings in <code>ggplot2::aes()</code> . Intended primarily for non-supported aesthetics (e.g. <code>shape</code> , <code>linetype</code> , <code>linewidth</code> , or <code>size</code>), but can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks	A <code>scales::breaks_*</code> function (e.g. <code>scales::breaks_*</code> ()), or a vector of breaks.
x_breaks_n, y_breaks_n, col_breaks_n	A number of desired breaks for when <code>*_breaks = NULL</code> .
x_expand, y_expand	Padding to the limits with the <code>ggplot2::expansion()</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
x_expand_limits, y_expand_limits, col_expand_limits	For a continuous variable, any values that the limits should encompass (e.g. <code>0</code>). For a discrete scale, manipulate the data instead with <code>forcats::fct_expand</code> .
x_label, y_label, col_label	Label for the axis or legend title. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
x_labels, y_labels, col_labels, facet_labels	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*</code> ()), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
x_position, y_position	The position of the axis (i.e. <code>"left"</code> , <code>"right"</code> , <code>"bottom"</code> or <code>"top"</code>). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
x_sec_axis, y_sec_axis	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
x_symmetric, y_symmetric	TRUE or FALSE of whether a symmetric scale.
x_transform, y_transform, col_transform	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_*</code> prefix (e.g. <code>"log10"</code>).
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 <code>scales::pal_*</code> () function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a <code>scales::rescale()</code> 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 <code>"margins"</code> , <code>"all"</code> , <code>"all_x"</code> , or <code>"all_y"</code> . Sometimes <code>+ *_mode_*</code> () may be needed.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

data.frame(
  trt = factor(c(1, 1, 2, 2)),
  resp = c(1, 5, 3, 4),
  group = factor(c(1, 2, 1, 2)),
  upper = c(1.1, 5.3, 3.3, 4.2),
  lower = c(0.8, 4.6, 2.4, 3.6)
) |>
gg_linerange(
  x = trt,
  ymin = lower,
  ymax = upper,
  col = group,
  position = position_dodge(width = 0.2),
  x_label = "Treatment",
  y_label = "Response",
)
```

`gg_path`*Path ggplot*

Description

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

Usage

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

```

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

```

Arguments

data	A data frame or tibble.
...	Other arguments passed to within a params list in <code>layer()</code> .
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 <code>position_*</code> () function that outputs a ggproto Position subclass object (e.g. <code>ggplot2::position_identity()</code>).
coord	A coordinate system. A <code>coord_*</code> () function that outputs a constructed ggproto Coord subclass object (e.g. <code>ggplot2::coord_cartesian()</code>).

mode	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.
mode_orientation	The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <code>ggplot2::aes()</code> . 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 <code>scales::breaks_*</code> function (e.g. <code>scales::breaks_*</code> ()), or a vector of breaks.
x_breaks_n, y_breaks_n, col_breaks_n	A number of desired breaks for when <code>*_breaks = NULL</code> .
x_expand, y_expand	Padding to the limits with the <code>ggplot2::expansion()</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
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 <code>forcats::fct_expand</code> .
x_label, y_label, col_label	Label for the axis or legend title. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
x_labels, y_labels, col_labels, facet_labels	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*</code> ()), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
x_position, y_position	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
x_sec_axis, y_sec_axis	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
x_symmetric, y_symmetric	TRUE or FALSE of whether a symmetric scale.
x_transform, y_transform, col_transform	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_</code> 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.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

`gg_point`*Point ggplot*

Description

Create a point ggplot with a wrapper around `ggplot2::ggplot() + geom_point()`.

Usage

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

```

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

```

Arguments

data	A data frame or tibble.
...	Other arguments passed to within a params list in <code>layer()</code> .
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 <code>position_*</code> () function that outputs a ggproto Position subclass object (e.g. <code>ggplot2::position_identity()</code>).
coord	A coordinate system. A <code>coord_*</code> () function that outputs a constructed ggproto Coord subclass object (e.g. <code>ggplot2::coord_cartesian()</code>).

mode	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the <code>mode_orientation</code> .
mode_orientation	The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <code>ggplot2::aes()</code> . Intended primarily for non-supported aesthetics (e.g. <code>shape</code> , <code>linetype</code> , <code>linewidth</code> , or <code>size</code>), but can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks	A <code>scales::breaks_*</code> function (e.g. <code>scales::breaks_*</code> ()), or a vector of breaks.
x_breaks_n, y_breaks_n, col_breaks_n	A number of desired breaks for when <code>*_breaks = NULL</code> .
x_expand, y_expand	Padding to the limits with the <code>ggplot2::expansion()</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
x_expand_limits, y_expand_limits, col_expand_limits	For a continuous variable, any values that the limits should encompass (e.g. <code>0</code>). For a discrete scale, manipulate the data instead with <code>forcats::fct_expand</code> .
x_label, y_label, col_label	Label for the axis or legend title. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
x_labels, y_labels, col_labels, facet_labels	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*</code> ()), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
x_position, y_position	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
x_sec_axis, y_sec_axis	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
x_symmetric, y_symmetric	TRUE or FALSE of whether a symmetric scale.
x_transform, y_transform, col_transform	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_prefix</code> (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 <code>scales::pal_*</code> () function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a <code>scales::rescale()</code> 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 + <code>*_mode_*</code> () may be needed.
facet_axis_labels	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
facet_ncol, facet_nrow	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
facet_scales	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
facet_space	When the facet scales are <i>not</i> "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 <code>x_label</code> , <code>y_label</code> and <code>col_label</code> of unlabelled variables. Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

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

set_blanket()

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

gg_pointrange	<i>Pointrange ggplot</i>
---------------	--------------------------

Description

Create a pointrange ggplot with a wrapper around `ggplot2::ggplot() + geom_pointrange()`.

Usage

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

```

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

```

Arguments

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

mode	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the <code>mode_orientation</code> .
mode_orientation	The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <code>ggplot2::aes()</code> . Intended primarily for non-supported aesthetics (e.g. <code>shape</code> , <code>linetype</code> , <code>linewidth</code> , or <code>size</code>), but can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks	A <code>scales::breaks_*</code> function (e.g. <code>scales::breaks_*</code> ()), or a vector of breaks.
x_breaks_n, y_breaks_n, col_breaks_n	A number of desired breaks for when <code>*_breaks = NULL</code> .
x_expand, y_expand	Padding to the limits with the <code>ggplot2::expansion()</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
x_expand_limits, y_expand_limits, col_expand_limits	For a continuous variable, any values that the limits should encompass (e.g. <code>0</code>). For a discrete scale, manipulate the data instead with <code>forcats::fct_expand</code> .
x_label, y_label, col_label	Label for the axis or legend title. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
x_labels, y_labels, col_labels, facet_labels	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*</code> ()), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
x_position, y_position	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
x_sec_axis, y_sec_axis	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
x_symmetric, y_symmetric	TRUE or FALSE of whether a symmetric scale.
x_transform, y_transform, col_transform	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_</code> 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.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

data.frame(
  trt = factor(c(1, 1, 2, 2)),
  resp = c(1, 5, 3, 4),
  group = factor(c(1, 2, 1, 2)),
  upper = c(1.1, 5.3, 3.3, 4.2),
  lower = c(0.8, 4.6, 2.4, 3.6)
) |>
gg_pointrange(
```

```
x = trt,  
y = resp,  
col = group,  
ymin = lower,  
ymax = upper,  
position = position_dodge(width = 0.2),  
x_label = "Treatment",  
y_label = "Response",  
)
```

gg_polygon

Polygon ggplot

Description

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

Usage

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

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

Arguments

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

<code>x_symmetric, y_symmetric</code>	TRUE or FALSE of whether a symmetric scale.
<code>x_transform, y_transform, col_transform</code>	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_prefix</code> (e.g. "log10").
<code>col_drop, facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol, col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*()</code> function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale()</code> function.
<code>col_steps</code>	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
<code>facet_axes</code>	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + <code>*_mode_*</code> () may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
<code>facet_ncol, facet_nrow</code>	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	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".
<code>facet_space</code>	When the facet scales are <i>not</i> "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".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>label_to_case</code>	A function to format the default <code>x_label</code> , <code>y_label</code> and <code>col_label</code> of unlabelled variables. Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

```

library(ggplot2)
library(dplyr)

set_blanket()

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

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

positions <- data.frame(
  id = rep(ids, each = 4),
  x = c(
    2, 1, 1.1, 2.2, 1, 0, 0.3, 1.1, 2.2, 1.1, 1.2, 2.5, 1.1, 0.3,
    0.5, 1.2, 2.5, 1.2, 1.3, 2.7, 1.2, 0.5, 0.6, 1.3
  ),
  y = c(
    -0.5, 0, 1, 0.5, 0, 0.5, 1.5, 1, 0.5, 1, 2.1, 1.7, 1, 1.5,
    2.2, 2.1, 1.7, 2.1, 3.2, 2.8, 2.1, 2.2, 3.3, 3.2
  )
)

datapoly <- merge(values, positions, by = c("id"))

datapoly |>
  gg_polygon(
    x = x,
    y = y,
    col = value,
    group = id,
  )

```

gg_qq

Qq ggplot

Description

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

Usage

```

gg_qq(
  data = NULL,
  ...,
  stat = "qq",

```

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

```

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

```

Arguments

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

<code>x_breaks, y_breaks, col_breaks</code>	A <code>scales::breaks_*</code> function (e.g. <code>scales::breaks_*</code> ()), or a vector of breaks.
<code>x_breaks_n, y_breaks_n, col_breaks_n</code>	A number of desired breaks for when <code>*_breaks = NULL</code> .
<code>x_expand, y_expand</code>	Padding to the limits with the <code>ggplot2::expansion()</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_expand_limits, y_expand_limits, col_expand_limits</code>	For a continuous variable, any values that the limits should encompass (e.g. <code>0</code>). For a discrete scale, manipulate the data instead with <code>forcats::fct_expand</code> .
<code>x_label, y_label, col_label</code>	Label for the axis or legend title. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<code>x_labels, y_labels, col_labels, facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*</code> ()), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
<code>x_position, y_position</code>	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
<code>x_sec_axis, y_sec_axis</code>	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
<code>x_symmetric, y_symmetric</code>	TRUE or FALSE of whether a symmetric scale.
<code>x_transform, y_transform, col_transform</code>	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_*</code> prefix (e.g. "log10").
<code>col_drop, facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol, col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*</code> () function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale()</code> function.
<code>col_steps</code>	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
<code>facet_axes</code>	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes <code>+ *_mode_*</code> () may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

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

Value

A ggplot object.

Examples

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

set_blanket()

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

gg_quantile

Quantile ggplot

Description

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

Usage

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

```

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

```

Arguments

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

mapping	A set of additional aesthetic mappings in <code>ggplot2::aes()</code> . Intended primarily for non-supported aesthetics (e.g. <code>shape</code> , <code>linetype</code> , <code>linewidth</code> , or <code>size</code>), but can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks	A <code>scales::breaks_*</code> function (e.g. <code>scales::breaks_*</code> ()), or a vector of breaks.
x_breaks_n, y_breaks_n, col_breaks_n	A number of desired breaks for when <code>*_breaks = NULL</code> .
x_expand, y_expand	Padding to the limits with the <code>ggplot2::expansion()</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
x_expand_limits, y_expand_limits, col_expand_limits	For a continuous variable, any values that the limits should encompass (e.g. <code>0</code>). For a discrete scale, manipulate the data instead with <code>forcats::fct_expand</code> .
x_label, y_label, col_label	Label for the axis or legend title. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
x_labels, y_labels, col_labels, facet_labels	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*</code> ()), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
x_position, y_position	The position of the axis (i.e. <code>"left"</code> , <code>"right"</code> , <code>"bottom"</code> or <code>"top"</code>). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
x_sec_axis, y_sec_axis	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
x_symmetric, y_symmetric	TRUE or FALSE of whether a symmetric scale.
x_transform, y_transform, col_transform	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_*</code> prefix (e.g. <code>"log10"</code>).
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 <code>scales::pal_*</code> () function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a <code>scales::rescale()</code> 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 <code>"margins"</code> , <code>"all"</code> , <code>"all_x"</code> , or <code>"all_y"</code> . Sometimes <code>+ *_mode_*</code> () may be needed.

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

Value

A ggplot object.

Examples

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

  set_blanket()

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

gg_raster

Raster ggplot

Description

Create a raster ggplot with a wrapper around `ggplot2::ggplot()` + `geom_raster()`.

Usage

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

```

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

```

Arguments

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

mapping	A set of additional aesthetic mappings in <code>ggplot2::aes()</code> . Intended primarily for non-supported aesthetics (e.g. <code>shape</code> , <code>linetype</code> , <code>linewidth</code> , or <code>size</code>), but can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks	A <code>scales::breaks_*</code> function (e.g. <code>scales::breaks_*</code> ()), or a vector of breaks.
x_breaks_n, y_breaks_n, col_breaks_n	A number of desired breaks for when <code>*_breaks = NULL</code> .
x_expand, y_expand	Padding to the limits with the <code>ggplot2::expansion()</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
x_expand_limits, y_expand_limits, col_expand_limits	For a continuous variable, any values that the limits should encompass (e.g. <code>0</code>). For a discrete scale, manipulate the data instead with <code>forcats::fct_expand</code> .
x_label, y_label, col_label	Label for the axis or legend title. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
x_labels, y_labels, col_labels, facet_labels	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*</code> ()), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
x_position, y_position	The position of the axis (i.e. <code>"left"</code> , <code>"right"</code> , <code>"bottom"</code> or <code>"top"</code>). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
x_sec_axis, y_sec_axis	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
x_symmetric, y_symmetric	TRUE or FALSE of whether a symmetric scale.
x_transform, y_transform, col_transform	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_*</code> prefix (e.g. <code>"log10"</code>).
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 <code>scales::pal_*</code> () function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a <code>scales::rescale()</code> 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 <code>"margins"</code> , <code>"all"</code> , <code>"all_x"</code> , or <code>"all_y"</code> . Sometimes <code>+ *_mode_*</code> () may be needed.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

gg_rect

Rect ggplot

Description

Create a rect ggplot with a wrapper around `ggplot2::ggplot() + geom_rect()`.

Usage

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

```

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

```

Arguments

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

mapping	A set of additional aesthetic mappings in <code>ggplot2::aes()</code> . Intended primarily for non-supported aesthetics (e.g. <code>shape</code> , <code>linetype</code> , <code>linewidth</code> , or <code>size</code>), but can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks	A <code>scales::breaks_*</code> function (e.g. <code>scales::breaks_*</code> ()), or a vector of breaks.
x_breaks_n, y_breaks_n, col_breaks_n	A number of desired breaks for when <code>*_breaks = NULL</code> .
x_expand, y_expand	Padding to the limits with the <code>ggplot2::expansion()</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
x_expand_limits, y_expand_limits, col_expand_limits	For a continuous variable, any values that the limits should encompass (e.g. <code>0</code>). For a discrete scale, manipulate the data instead with <code>forcats::fct_expand</code> .
x_label, y_label, col_label	Label for the axis or legend title. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
x_labels, y_labels, col_labels, facet_labels	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*</code> ()), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
x_position, y_position	The position of the axis (i.e. <code>"left"</code> , <code>"right"</code> , <code>"bottom"</code> or <code>"top"</code>). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
x_sec_axis, y_sec_axis	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
x_symmetric, y_symmetric	TRUE or FALSE of whether a symmetric scale.
x_transform, y_transform, col_transform	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_*</code> prefix (e.g. <code>"log10"</code>).
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 <code>scales::pal_*</code> () function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a <code>scales::rescale()</code> 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 <code>"margins"</code> , <code>"all"</code> , <code>"all_x"</code> , or <code>"all_y"</code> . Sometimes <code>+ *_mode_*</code> () may be needed.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

data.frame(
  x = rep(c(2, 5, 7, 9, 12), 2),
  y = rep(c(1, 2), each = 5),
  z = factor(c(rep(1:4, each = 2), 5, NA)),
  w = rep(diff(c(0, 4, 6, 8, 10, 14)), 2)
) |>
  mutate(
    xmin = x - w / 2,
    xmax = x + w / 2,
    ymin = y,
    ymax = y + 1
  ) |>
  gg_rect(
    xmin = xmin,
    xmax = xmax,
    ymin = ymin,
    ymax = ymax,
    col = z,
```

)

`gg_ribbon`*Ribbon ggplot*

Description

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

Usage

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

```

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

```

Arguments

data	A data frame or tibble.
...	Other arguments passed to within a params list in <code>layer()</code> .
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 <code>position_*()</code>

	function that outputs a ggproto Position subclass object (e.g. <code>ggplot2::position_identity()</code>).
<code>coord</code>	A coordinate system. A <code>coord_*</code> () function that outputs a constructed ggproto Coord subclass object (e.g. <code>ggplot2::coord_cartesian()</code>).
<code>mode</code>	A <code>ggplot2</code> theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the <code>mode_orientation</code> .
<code>mode_orientation</code>	The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".
<code>x</code> , <code>xmin</code> , <code>xmax</code> , <code>xend</code> , <code>y</code> , <code>ymin</code> , <code>ymax</code> , <code>yend</code> , <code>z</code> , <code>col</code> , <code>facet</code> , <code>facet2</code> , <code>group</code> , <code>subgroup</code> , <code>label</code> , <code>text</code> , <code>sample</code>	An unquoted aesthetic variable.
<code>mapping</code>	A set of additional aesthetic mappings in <code>ggplot2::aes()</code> . Intended primarily for non-supported aesthetics (e.g. <code>shape</code> , <code>linetype</code> , <code>linewidth</code> , or <code>size</code>), but can also be used for delayed evaluation etc.
<code>x_breaks</code> , <code>y_breaks</code> , <code>col_breaks</code>	A <code>scales::breaks_*</code> function (e.g. <code>scales::breaks_*</code> ()), or a vector of breaks.
<code>x_breaks_n</code> , <code>y_breaks_n</code> , <code>col_breaks_n</code>	A number of desired breaks for when <code>*_breaks = NULL</code> .
<code>x_expand</code> , <code>y_expand</code>	Padding to the limits with the <code>ggplot2::expansion()</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_expand_limits</code> , <code>y_expand_limits</code> , <code>col_expand_limits</code>	For a continuous variable, any values that the limits should encompass (e.g. <code>0</code>). For a discrete scale, manipulate the data instead with <code>forcats::fct_expand</code> .
<code>x_label</code> , <code>y_label</code> , <code>col_label</code>	Label for the axis or legend title. Use <code>+ggplot2::labs(... = NULL)</code> for no title.
<code>x_labels</code> , <code>y_labels</code> , <code>col_labels</code> , <code>facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*</code> ()), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
<code>x_position</code> , <code>y_position</code>	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
<code>x_sec_axis</code> , <code>y_sec_axis</code>	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
<code>x_symmetric</code> , <code>y_symmetric</code>	TRUE or FALSE of whether a symmetric scale.
<code>x_transform</code> , <code>y_transform</code> , <code>col_transform</code>	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_</code> prefix (e.g. "log10").
<code>col_drop</code> , <code>facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

data.frame(year = 1875:1972, level = as.vector(LakeHuron)) |>
  mutate(level_min = level - 1, level_max = level + 1) |>
  gg_ribbon(
```

```
x = year,  
ymin = level_min,  
ymax = level_max,  
x_labels = \"(x) x\",  
y_label = \"Level\",  
) +  
geom_line(mapping = aes(y = level))
```

gg_rug

Rug ggplot

Description

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

Usage

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

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

Arguments

`data` A data frame or tibble.

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

<code>x_transform</code> , <code>y_transform</code> , <code>col_transform</code>	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_</code> prefix (e.g. <code>"log10"</code>).
<code>col_drop</code> , <code>facet_drop</code>	For a discrete variable, <code>FALSE</code> or <code>TRUE</code> of whether to drop unused levels.
<code>col_legend_ncol</code> , <code>col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	<code>TRUE</code> or <code>FALSE</code> of whether to reverse the elements of a legend guide. Defaults to <code>FALSE</code> .
<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*()</code> function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale()</code> function.
<code>col_steps</code>	For a continuous variable, <code>TRUE</code> or <code>FALSE</code> of whether to colour in steps. Defaults to <code>FALSE</code> .
<code>facet_axes</code>	Whether to add interior axes and ticks with <code>"margins"</code> , <code>"all"</code> , <code>"all_x"</code> , or <code>"all_y"</code> . Sometimes + <code>*_mode_*</code> () may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with <code>"margins"</code> , <code>"all"</code> , <code>"all_x"</code> , or <code>"all_y"</code> .
<code>facet_layout</code>	Whether the layout is to be <code>"wrap"</code> or <code>"grid"</code> . If <code>NULL</code> and a single facet (or <code>facet2</code>) argument is provided, then defaults to <code>"wrap"</code> . If <code>NULL</code> and both facet and <code>facet2</code> arguments are provided, defaults to <code>"grid"</code> .
<code>facet_ncol</code> , <code>facet_nrow</code>	The number of columns and rows of facet panels. Only applies to a facet layout of <code>"wrap"</code> .
<code>facet_scales</code>	Whether facet scales should be <code>"fixed"</code> across facets, <code>"free"</code> in both directions, or free in just one direction (i.e. <code>"free_x"</code> or <code>"free_y"</code>). Defaults to <code>"fixed"</code> .
<code>facet_space</code>	When the facet scales are <i>not</i> <code>"fixed"</code> , whether facet space should be <code>"fixed"</code> across facets, <code>"free"</code> to be proportional in both directions, or free to be proportional in just one direction (i.e. <code>"free_x"</code> or <code>"free_y"</code>). Defaults to <code>"fixed"</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>label_to_case</code>	A function to format the default <code>x_label</code> , <code>y_label</code> and <code>col_label</code> of unlabelled variables. Defaults to <code>snakecase::to_sentence_case</code> .

Value

A `ggplot` object.

Examples

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

set_blanket()

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

gg_segment

Segment ggplot

Description

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

Usage

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

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

```

caption = NULL,
label_to_case = snakecase::to_sentence_case
)

```

Arguments

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

<code>x_position, y_position</code>	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
<code>x_sec_axis, y_sec_axis</code>	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
<code>x_symmetric, y_symmetric</code>	TRUE or FALSE of whether a symmetric scale.
<code>x_transform, y_transform, col_transform</code>	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_</code> prefix (e.g. "log10").
<code>col_drop, facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol, col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*</code> () function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale()</code> function.
<code>col_steps</code>	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
<code>facet_axes</code>	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + <code>*_mode_*</code> () may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
<code>facet_ncol, facet_nrow</code>	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	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".
<code>facet_space</code>	When the facet scales are <i>not</i> "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".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>label_to_case</code>	A function to format the default <code>x_label</code> , <code>y_label</code> and <code>col_label</code> of unlabelled variables. Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

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

set_blanket()

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

gg_sf

Sf ggplot

Description

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

Usage

```
gg_sf(
  data = NULL,
  ...,
  stat = "sf",
  position = "identity",
  coord = ggplot2::coord_sf(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
```

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

```

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

```

Arguments

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

<code>x_labels, y_labels, col_labels, facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*()</code>), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
<code>x_position, y_position</code>	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
<code>x_sec_axis, y_sec_axis</code>	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
<code>x_symmetric, y_symmetric</code>	TRUE or FALSE of whether a symmetric scale.
<code>x_transform, y_transform, col_transform</code>	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_*</code> prefix (e.g. "log10").
<code>col_drop, facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol, col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*()</code> function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale()</code> function.
<code>col_steps</code>	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
<code>facet_axes</code>	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + <code>*_mode_*</code> () may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
<code>facet_ncol, facet_nrow</code>	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	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".
<code>facet_space</code>	When the facet scales are <i>not</i> "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".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.

caption Caption title string.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

if (requireNamespace("sf", quietly = TRUE)) {
  sf::st_read(system.file("shape/nc.shp", package = "sf")) |>
  gg_sf(
    col = AREA,
  )
}
```

gg_smooth

Smooth ggplot

Description

Create a smooth ggplot with a wrapper around `ggplot2::ggplot() + geom_smooth()`.

Usage

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

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

```

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

```

Arguments

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

x_labels, y_labels, col_labels, facet_labels	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*()</code>), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
x_position, y_position	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
x_sec_axis, y_sec_axis	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
x_symmetric, y_symmetric	TRUE or FALSE of whether a symmetric scale.
x_transform, y_transform, col_transform	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_</code> 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 <code>scales::pal_*()</code> function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a <code>scales::rescale()</code> 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 + <code>*_mode_*</code> 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 <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
facet_ncol, facet_nrow	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
facet_scales	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
facet_space	When the facet scales are <i>not</i> "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.

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

Value

A ggplot object.

Examples

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

set_blanket()

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

gg_step

Step ggplot

Description

Create a step plot with a wrapper around `ggplot2::ggplot() + geom_step()`.

Usage

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

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

```

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

```

Arguments

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

<code>x_label, y_label, col_label</code>	Label for the axis or legend title. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<code>x_labels, y_labels, col_labels, facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*()</code>), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
<code>x_position, y_position</code>	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
<code>x_sec_axis, y_sec_axis</code>	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
<code>x_symmetric, y_symmetric</code>	TRUE or FALSE of whether a symmetric scale.
<code>x_transform, y_transform, col_transform</code>	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_*</code> prefix (e.g. "log10").
<code>col_drop, facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol, col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*()</code> function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale()</code> function.
<code>col_steps</code>	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
<code>facet_axes</code>	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes <code>+ *_mode_*</code> may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
<code>facet_ncol, facet_nrow</code>	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	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".
<code>facet_space</code>	When the facet scales are <i>not</i> "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 <code>x_label</code> , <code>y_label</code> and <code>col_label</code> of unlabelled variables. Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

economics |>
  filter(date > lubridate::ymd("2010-01-01")) |>
  gg_step(
    x = date,
    y = unemploy,
    y_expand_limits = 0,
    y_label = "Unemployment",
  )
```

gg_text

Text ggplot

Description

Create a text plot with a wrapper around `ggplot2::ggplot() + geom_text()`.

Usage

```
gg_text(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  mode_orientation = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
```

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

```

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

```

Arguments

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

<code>x_expand_limits, y_expand_limits, col_expand_limits</code>	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with <code>forcats::fct_expand</code> .
<code>x_label, y_label, col_label</code>	Label for the axis or legend title. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<code>x_labels, y_labels, col_labels, facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*()</code>), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
<code>x_position, y_position</code>	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
<code>x_sec_axis, y_sec_axis</code>	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
<code>x_symmetric, y_symmetric</code>	TRUE or FALSE of whether a symmetric scale.
<code>x_transform, y_transform, col_transform</code>	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_</code> prefix (e.g. "log10").
<code>col_drop, facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol, col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*()</code> function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale()</code> function.
<code>col_steps</code>	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
<code>facet_axes</code>	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes <code>+ *_mode_*</code> may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
<code>facet_ncol, facet_nrow</code>	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

gg_tile

Tile ggplot

Description

Create a tile plot with a wrapper around `ggplot2::ggplot() + geom_tile()`.

Usage

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

```

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

```

Arguments

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

mapping	A set of additional aesthetic mappings in <code>ggplot2::aes()</code> . Intended primarily for non-supported aesthetics (e.g. <code>shape</code> , <code>linetype</code> , <code>linewidth</code> , or <code>size</code>), but can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks	A <code>scales::breaks_*</code> function (e.g. <code>scales::breaks_*</code> ()), or a vector of breaks.
x_breaks_n, y_breaks_n, col_breaks_n	A number of desired breaks for when <code>*_breaks = NULL</code> .
x_expand, y_expand	Padding to the limits with the <code>ggplot2::expansion()</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
x_expand_limits, y_expand_limits, col_expand_limits	For a continuous variable, any values that the limits should encompass (e.g. <code>0</code>). For a discrete scale, manipulate the data instead with <code>forcats::fct_expand</code> .
x_label, y_label, col_label	Label for the axis or legend title. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
x_labels, y_labels, col_labels, facet_labels	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*</code> ()), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
x_position, y_position	The position of the axis (i.e. <code>"left"</code> , <code>"right"</code> , <code>"bottom"</code> or <code>"top"</code>). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
x_sec_axis, y_sec_axis	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
x_symmetric, y_symmetric	TRUE or FALSE of whether a symmetric scale.
x_transform, y_transform, col_transform	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_*</code> prefix (e.g. <code>"log10"</code>).
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 <code>scales::pal_*</code> () function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a <code>scales::rescale()</code> 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 <code>"margins"</code> , <code>"all"</code> , <code>"all_x"</code> , or <code>"all_y"</code> . Sometimes <code>+ *_mode_*</code> () may be needed.

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  group_by(species, sex) |>
  summarise(across(flipper_length_mm, \(x) mean(x, na.rm = TRUE))) |>
  gg_tile(
    x = sex,
    y = species,
    col = flipper_length_mm,
  )
```

`gg_violin`*Violin ggplot*

Description

Create a violin plot with a wrapper around `ggplot2::ggplot() + geom_violin()`.

Usage

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

```

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

```

Arguments

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

mode	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>) that anticipates side-effects of removing relevant axis line/ticks and gridlines per the <code>mode_orientation</code> .
mode_orientation	The orientation of plot, which affects the theme components that are removed from the mode. Either "x" or "y".
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <code>ggplot2::aes()</code> . Intended primarily for non-supported aesthetics (e.g. <code>shape</code> , <code>linetype</code> , <code>linewidth</code> , or <code>size</code>), but can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks	A <code>scales::breaks_*</code> function (e.g. <code>scales::breaks_*</code> ()), or a vector of breaks.
x_breaks_n, y_breaks_n, col_breaks_n	A number of desired breaks for when <code>*_breaks = NULL</code> .
x_expand, y_expand	Padding to the limits with the <code>ggplot2::expansion()</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
x_expand_limits, y_expand_limits, col_expand_limits	For a continuous variable, any values that the limits should encompass (e.g. <code>0</code>). For a discrete scale, manipulate the data instead with <code>forcats::fct_expand</code> .
x_label, y_label, col_label	Label for the axis or legend title. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
x_labels, y_labels, col_labels, facet_labels	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*</code> ()), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
x_position, y_position	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_mode_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
x_sec_axis, y_sec_axis	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
x_symmetric, y_symmetric	TRUE or FALSE of whether a symmetric scale.
x_transform, y_transform, col_transform	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_prefix</code> (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.

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  tidyr::drop_na(sex) |>
  gg_violin(
    x = species,
    y = body_mass_g,
    col = sex,
  )
```

grey	<i>A grey colour</i>
------	----------------------

Description

A grey colour.

Usage

```
grey
```

Value

A character vector.

Examples

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

jumble	<i>The jumble palette</i>
--------	---------------------------

Description

A discrete palette that is relatively colour-blind safe.

Usage

```
jumble
```

```
teal
```

```
orange
```

```
navy
```

```
red
```

```
pink
```

```
purple
```

Value

A character vector.

Examples

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

label_every_nth	<i>Label every nth element</i>
-----------------	--------------------------------

Description

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

Usage

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

Arguments

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

Value

A labelling function

Examples

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

library(dplyr)
library(palmerpenguins)

set_blanket()

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

`lightness`*Mode colour and linewidth defaults*

Description

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

`linewidthness` is a vector of 2 integers used in the `*_mode_*` themes for the linewidth of the `axis.line` (`axis.ticks` and `legend.ticks`) and `panel.grid` theme elements.

Usage`lightness``darkness``linewidthness`**Value**

A character vector.

Examples

```
scales::show_col(c(lightness, darkness), ncol = 3)
```

`light_mode_r`*Light mode theme family*

Description

A dark mode family of functions:

- `light_mode_r()` with legend on right
- `light_mode_t()` with legend on top
- `light_mode_b()` with legend on bottom

Usage

```
light_mode_r(  
  ...,  
  base_size = 11,  
  base_family = "",  
  base_colour = "#121B24FF",  
  axis_line_colour = "#121B24FF",  
  axis_line_linewidth = 0.33,  
  axis_ticks_colour = axis_line_colour,  
  axis_ticks_linewidth = axis_line_linewidth,  
  panel_grid_colour = "#F6F8FAFF",  
  panel_grid_linewidth = 1.33,  
  panel_background_fill = "#FFFFFF",  
  plot_background_fill = "#FFFFFF",  
  legend_axis_line_colour = plot_background_fill,  
  legend_axis_line_linewidth = 0.33,  
  legend_background_fill = plot_background_fill,  
  legend_key_fill = plot_background_fill,  
  legend_ticks_colour = legend_axis_line_colour,  
  legend_ticks_linewidth = legend_axis_line_linewidth,  
  legend_ticks_length = ggplot2::rel(c(0.175, 0))  
)  
  
light_mode_t(  
  ...,  
  base_size = 11,  
  base_family = "",  
  base_colour = "#121B24FF",  
  axis_line_colour = "#121B24FF",  
  axis_line_linewidth = 0.33,  
  axis_ticks_colour = axis_line_colour,  
  axis_ticks_linewidth = axis_line_linewidth,  
  panel_grid_colour = "#F6F8FAFF",  
  panel_grid_linewidth = 1.33,  
  panel_background_fill = "#FFFFFF",  
  plot_background_fill = "#FFFFFF",  
  legend_axis_line_colour = plot_background_fill,  
  legend_axis_line_linewidth = 0.33,  
  legend_background_fill = plot_background_fill,  
  legend_key_fill = plot_background_fill,  
  legend_ticks_colour = legend_axis_line_colour,  
  legend_ticks_linewidth = legend_axis_line_linewidth,  
  legend_ticks_length = ggplot2::rel(c(0.175, 0))  
)  
  
light_mode_b(  
  ...,  
  base_size = 11,
```

```

base_family = "",
base_colour = "#121B24FF",
axis_line_colour = "#121B24FF",
axis_line_linewidth = 0.33,
axis_ticks_colour = axis_line_colour,
axis_ticks_linewidth = axis_line_linewidth,
panel_grid_colour = "#F6F8FAFF",
panel_grid_linewidth = 1.33,
panel_background_fill = "#FFFFFF",
plot_background_fill = "#FFFFFF",
legend_axis_line_colour = plot_background_fill,
legend_axis_line_linewidth = 0.33,
legend_background_fill = plot_background_fill,
legend_key_fill = plot_background_fill,
legend_ticks_colour = legend_axis_line_colour,
legend_ticks_linewidth = legend_axis_line_linewidth,
legend_ticks_length = ggplot2::rel(c(0.175, 0))
)

```

Arguments

...	Provided to force user argument naming etc.
base_size	The base size of the text theme element. Defaults to 11.
base_family	The base family of the text theme element. Defaults to "".
base_colour	The base colour of the text theme element.
axis_line_colour	The colour of the axis.line theme element.
axis_line_linewidth	The linewidth of the axis.line theme element.
axis_ticks_colour	The colour of the axis.ticks theme element.
axis_ticks_linewidth	The linewidth of the axis.ticks theme element.
panel_grid_colour	The colour of the panel.grid theme element.
panel_grid_linewidth	The linewidth of the panel.grid theme element.
panel_background_fill	The fill (and colour) of the panel.background theme element.
plot_background_fill	The fill (and colour) of the plot.background theme element.
legend_axis_line_colour	The colour of the legend.axis.line theme element.
legend_axis_line_linewidth	The linewidth of the legend.axis.line theme element.
legend_background_fill	The fill (and colour) of the legend.background theme element.

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

`legend_ticks_colour`
The colour of the `legend.ticks` theme element.

`legend_ticks_linewidth`
The linewidth of the `legend.ticks` theme element.

`legend_ticks_length`
The `legend.ticks.length` theme element.

Value

A ggplot theme.

Examples

```
library(palmerpenguins)
library(ggplot2)

set_blanket()

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

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

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

Description

Add theme components to a mode used outside of a `gg_*` context

- `mode_orientation_to_x()` Orientate the plot to the x axis.
- `mode_orientation_to_y()` Orientate the plot to the y axis.

Usage

```
mode_orientation_to_x()
```

```
mode_orientation_to_y()
```

Value

ggplot2 theme components.

Examples

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

```
penguins |>
  ggplot() +
  geom_point(aes(x = flipper_length_mm, y = body_mass_g)) +
  light_mode_r() +
  mode_orientation_to_x()
```

```
penguins |>
  ggplot() +
  geom_bar(aes(y = island)) +
  light_mode_r() +
  mode_orientation_to_y()
```

set_blanket

Set a style

Description

Weave the style by setting:

1. the mode to be added with `gg_*()` side-effects
2. the colour/fill geom default, and other defaults for text, reference line and curve geoms
3. the `col_palettes` for discrete, continuous and ordinal colour/fill scales
4. a theme to be added *without* `gg_*()` side-effects.

Alternatively, use the `weave_*` functions to only apply a subset of these. `ggplot2::update_geom_defaults()` can be used to further fine-tune geom defaults.

Usage

```

set_blanket(
  ...,
  mode = light_mode_r(),
  colour = "#357BA2FF",
  fill = colour,
  text_colour = "#121B24FF",
  text_size = 11/2.835052,
  text_family = "",
  reference_line_colour = "#121B24FF",
  reference_line_linewidth = 0.33,
  col_palette_d = jumble,
  col_palette_na_d = "#CDC5BFFF",
  col_palette_c = viridisLite::mako(n = 9, direction = -1),
  col_palette_na_c = "#988F88FF",
  col_palette_o = scales::pal_viridis(option = "G", direction = -1),
  col_palette_na_o = "#988F88FF",
  theme = light_mode_r() + mode_orientation_to_x()
)

```

Arguments

...	Provided to force user argument naming etc.
mode	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>) that anticipates <code>gg_*</code> side-effects of removing relevant axis line/ticks and gridlines per the <code>mode_orientation</code> .
colour	A default hex colour for the colour of geoms (other than text or reference line geoms).
fill	A default hex colour for the fill of geoms (other than text or reference line geoms).
text_colour	A default hex colour for the colour (and fill) of the "text" and "label" geoms.
text_size	A default size for the "text" and "label" geoms.
text_family	A default family for the "text" and "label" geoms.
reference_line_colour	A default hex colour for the colour of the "hline", "vline", "abline" and "curve" geoms.
reference_line_linewidth	A default linewidth for the the "hline", "vline", "abline" and "curve" geoms.
col_palette_d	For a discrete scale, a character vector of hex codes.
col_palette_na_d	For a discrete scale, a hex code.
col_palette_c	For a continuous scale, a character vector of hex codes.
col_palette_na_c	For a continuous scale, a hex code.
col_palette_o	For an ordinal scale, a <code>scales::pal_*</code> () function.

`col_palette_na_o` For an ordinal scale, a hex code.

`theme` A ggplot2 theme that the `gg_*` function will add without side-effects if the mode is set/weaved to NULL (and also is applied to ggplot code outside of `ggblanket`).

Value

A globally set style.

Examples

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

set_blanket(
  mode = dark_mode_r(),
  colour = "#E7298AFF",
  text_colour = darkness[1],
  reference_line_colour = darkness[1],
  col_palette_d = c("#1B9E77FF", "#D95F02FF", "#7570b3FF", "#E7298AFF",
                    "#66A61EFF", "#E6AB02FF", "#A6761DFF", "#666666FF"),
)

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

penguins |>
  gg_histogram(
    x = flipper_length_mm,
    col = species,
  ) +
  geom_vline(xintercept = 200) +
  annotate("text", x = I(0.75), y = I(0.75), label = "Here")
```

`weave_col_palettes` *Set a discrete colour and fill palettes*

Description

Set a discrete colour and fill palettes

Usage

```
weave_col_palettes(
  col_palette_d = jumble,
  col_palette_c = viridisLite::mako(n = 9, direction = -1),
  col_palette_o = scales::pal_viridis(option = "G", direction = -1),
  col_palette_na_d = "#CDC5BFFF",
  col_palette_na_c = "#988F88FF",
  col_palette_na_o = "#988F88FF",
  ...
)
```

Arguments

col_palette_d	For a discrete scale, a character vector of hex codes. Use NULL for ggplot2 default.
col_palette_c	For a continuous scale, a character vector of hex codes. Use NULL for ggplot2 default.
col_palette_o	For an ordinal scale, a scales::pal_*() function. Use NULL for ggplot2 default.
col_palette_na_d	For a discrete scale, a hex code.
col_palette_na_c	For a continuous scale, a hex code.
col_palette_na_o	For an ordinal scale, a hex code.
...	Dots to support trailing commas etc.

weave_geom_defaults *Set a series of geom defaults*

Description

Update the colour/fill geom default, and update other defaults for text and reference line geoms. [ggplot2::update_geom_defaults\(\)](#) can be used to further fine-tune geom defaults.

Usage

```
weave_geom_defaults(
  colour = "#357BA2FF",
  fill = colour,
  text_colour = "#121B24FF",
  text_size = 11/2.835052,
  text_family = "",
  reference_line_colour = "#121B24FF",
  reference_line_linewidth = 0.33
)
```

Arguments

colour	A default hex colour for the colour of geoms (other than text or reference line geoms).
fill	A default hex colour for the fill of geoms (other than text or reference line geoms).
text_colour	A default hex colour for the colour (and fill) of the "text" and "label" geoms.
text_size	A default size for the "text" and "label" geoms.
text_family	A default family for the "text" and "label" geoms.
reference_line_colour	A default hex colour for the colour of the "hline", "vline", "abline" and "curve" geoms.
reference_line_linewidth	A default linewidth for the the "hline", "vline", "abline" and "curve" geoms.

weave_mode	<i>Set a mode</i>
------------	-------------------

Description

Set a mode for the mode argument in gg_* functions.

Usage

```
weave_mode(mode = light_mode_r())
```

Arguments

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

weave_theme	<i>Set a theme (without side-effects)</i>
-------------	---

Description

Set a theme to be +-ed on unmodified to gg_* functions. Note, the mode takes precedence, unless the set/weaved mode is mode = NULL.

Usage

```
weave_theme(theme = light_mode_r() + mode_orientation_to_x())
```

Arguments

theme	A ggplot2 theme that the gg_* function will add without side-effects if the mode is set/weaved to NULL (and also is applied to ggplot code outside of ggblanket).
-------	---

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