

Package ‘ggblanket’

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Title Simplify 'ggplot2' Visualisation

Version 11.1.0

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

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

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

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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

<code>...</code>	Provided to force user argument naming etc.
<code>dark</code>	A dark colour.
<code>light</code>	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,
  )

```

annotate_axis_line *Replace a axis line with an annotated segment*

Description

Replace a axis line with an annotated segment, so that geom features are in front of it.

Usage

```

annotate_axis_line(
  axis = "x",
  x_position = "bottom",
  y_position = "left",
  colour = NULL,
  linewidth = NULL,
  ...
)

```

Arguments

axis The axis. Either "x" or "y"

<code>x_position</code>	The position of the "x" axis, if applicable. Either "bottom" or "top".
<code>y_position</code>	The position of the "y" axis, if applicable. Either "left" or "right".
<code>colour</code>	The colour of the annotated segment.
<code>linewidth</code>	The linewidth of the annotated segment.
<code>...</code>	Extra parameters passed to <code>ggplot2::annotate("segment", ...)</code> .

Value

A list of a annotate layer and theme elements.

Examples

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

set_blanket()

penguins |>
  add_row(
    flipper_length_mm = 175,
    body_mass_g = 2500,
    species = "Adelie",
  ) |>
  gg_blanket(
    x = flipper_length_mm,
    y = body_mass_g,
    col = species,
  ) +
  annotate_axis_line() +
  geom_point(size = 2.5)
```

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 = 0.25,
  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 = axis_line_linewidth,
  legend_background_fill = plot_background_fill,
  legend_key_fill = plot_background_fill,
  legend_ticks_colour = legend_axis_line_colour,
  legend_ticks_linewidth = legend_axis_line_linewidth,
  legend_ticks_length = ggplot2::rel(c(0.175, 0))
)

dark_mode_t(
  ...,
  base_size = 11,
  base_family = "",
  base_colour = "#C8D7DFFF",
  axis_line_colour = "#C8D7DFFF",
  axis_line_linewidth = 0.25,
  axis_ticks_colour = axis_line_colour,
```

```

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

dark_mode_b(
  ...,
  base_size = 11,
  base_family = "",
  base_colour = "#C8D7DFFF",
  axis_line_colour = "#C8D7DFFF",
  axis_line_linewidth = 0.25,
  axis_ticks_colour = axis_line_colour,
  axis_ticks_linewidth = axis_line_linewidth,
  panel_grid_colour = "#00040AFF",
  panel_grid_linewidth = 1.33,
  panel_background_fill = "#050D1BFF",
  plot_background_fill = "#00040AFF",
  legend_axis_line_colour = plot_background_fill,
  legend_axis_line_linewidth = axis_line_linewidth,
  legend_background_fill = plot_background_fill,
  legend_key_fill = plot_background_fill,
  legend_ticks_colour = legend_axis_line_colour,
  legend_ticks_linewidth = legend_axis_line_linewidth,
  legend_ticks_length = ggplot2::rel(c(0.175, 0))
)

```

Arguments

...	Provided to 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,  
  blend = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,
```

```
mapping = NULL,  
x_breaks = NULL,  
x_breaks_n = NULL,  
x_expand = NULL,  
x_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".
blend	The blending mode per ggblend::blend() (e.g. "multiply").
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y_breaks_n, col_breaks_n	A number of desired breaks for when *_breaks = NULL.
x_expand, y_expand	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).
x_expand_limits, y_expand_limits, col_expand_limits	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_label, col_label	Label for the axis or legend title. Use + ggplot2::labs(... = NULL) for no title.
x_labels, y_labels, col_labels, facet_labels	A function that takes the breaks as inputs (e.g. \(\x\) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position, y_position	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".

<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()

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,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
```

```
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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>).

<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_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,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
```

```
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_breaks_n = NULL,  
x_expand = NULL,  
x_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>blend</code>	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
<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()

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,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
```

```
ymin = NULL,  
ymax = NULL,  
yend = NULL,  
z = NULL,  
col = NULL,  
facet = NULL,  
facet2 = NULL,  
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_breaks_n = NULL,  
x_expand = NULL,  
x_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>blend</code>	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
<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)
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,  
  blend = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_breaks_n = NULL,  
  x_expand = NULL,  
  x_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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").

x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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.
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 + *_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()

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

`gg_col`*Col ggplot*

Description

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

Usage

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

coord	A coordinate system. A coord_*() 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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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 *_breaks = NULL.
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 facet_labels).
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 *_mode_* 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 transform_ prefix (e.g. "log10").
col_drop, facet_drop	For a discrete variable, FALSE or TRUE 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>	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) |>
```

```
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,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
```

```
x_breaks_n = NULL,  
x_expand = NULL,  
x_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>blend</code>	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
<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)

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,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
```

```
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_breaks_n = NULL,  
x_expand = NULL,  
x_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>blend</code>	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
<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>).

x_position, y_position	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_mode_* theme, add caption = "" or caption = "\n".
x_sec_axis, y_sec_axis	A secondary axis with <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 transform_ prefix (e.g. "log10").
col_drop, facet_drop	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol, col_legend_nrow	The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
col_palette	A character vector of hex codes (or names) or a <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 + *_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 <code>snakecase::to_sentence_case</code> .

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,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
```

```
facet2 = NULL,  
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_breaks_n = NULL,  
x_expand = NULL,  
x_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>blend</code>	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
<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.

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)

set_blanket()

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

gg_density

Density ggplot

Description

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

Usage

```
gg_density(
  data = NULL,
  ...,
  stat = "density",
  position = "identity",
```

```
coord = ggplot2::coord_cartesian(clip = "off"),
mode = NULL,
mode_orientation = NULL,
blend = NULL,
x = NULL,
xmin = NULL,
xmax = NULL,
xend = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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 x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

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

set_blanket()

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

gg_density_2d

Density_2d ggplot

Description

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

Usage

```
gg_density_2d(  
  data = NULL,  
  ...,  
  stat = "density_2d",  
  position = "identity",  
  coord = ggplot2::coord_cartesian(clip = "off"),  
  mode = NULL,  
  mode_orientation = NULL,  
  blend = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_breaks_n = NULL,  
  x_expand = NULL,  
  x_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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").

x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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.
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 + *_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(
    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,  
  blend = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_breaks_n = NULL,  
  x_expand = NULL,  
  x_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>).

coord	A coordinate system. A coord_*() 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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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 *_breaks = NULL.
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 facet_labels).
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 *_mode_* 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 transform_ prefix (e.g. "log10").
col_drop, facet_drop	For a discrete variable, FALSE or TRUE 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>	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_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,  
  blend = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_breaks_n = NULL,  
  x_expand = NULL,  
  x_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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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.

<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, <code>FALSE</code> or <code>TRUE</code> 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>	<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, 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()

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,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
```

```
ymin = NULL,  
ymax = NULL,  
yend = NULL,  
z = NULL,  
col = NULL,  
facet = NULL,  
facet2 = NULL,  
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_breaks_n = NULL,  
x_expand = NULL,  
x_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>blend</code>	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
<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, 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 <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,
  blend = NULL,
  x = NULL,
```

```
xmin = NULL,  
xmax = NULL,  
xend = NULL,  
y = NULL,  
ymin = NULL,  
ymax = NULL,  
yend = NULL,  
z = NULL,  
col = NULL,  
facet = NULL,  
facet2 = NULL,  
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_breaks_n = NULL,  
x_expand = NULL,  
x_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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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()

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,
```

```
blend = NULL,  
x = NULL,  
xmin = NULL,  
xmax = NULL,  
xend = NULL,  
y = NULL,  
ymin = NULL,  
ymax = NULL,  
yend = NULL,  
z = NULL,  
col = NULL,  
facet = NULL,  
facet2 = NULL,  
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_breaks_n = NULL,  
x_expand = NULL,  
x_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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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.

<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)
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,  
  blend = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_breaks_n = NULL,  
  x_expand = NULL,  
  x_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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").

x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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 "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()

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,  
  blend = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_breaks_n = NULL,  
  x_expand = NULL,  
  x_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 <code>coord_*</code> () function that outputs a constructed <code>ggproto</code> <code>Coord</code> 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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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.

<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>	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()

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,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
```

```
x_breaks_n = NULL,  
x_expand = NULL,  
x_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>blend</code>	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
<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)

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,
    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,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
```



```
col = NULL,  
facet = NULL,  
facet2 = NULL,  
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_breaks_n = NULL,  
x_expand = NULL,  
x_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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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)

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,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
```

```
xend = NULL,  
y = NULL,  
ymin = NULL,  
ymax = NULL,  
yend = NULL,  
z = NULL,  
col = NULL,  
facet = NULL,  
facet2 = NULL,  
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_breaks_n = NULL,  
x_expand = NULL,  
x_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>blend</code>	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
<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, 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()

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,  
  blend = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_breaks_n = NULL,  
  x_expand = NULL,  
  x_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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").

x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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.
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 + *_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)

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	<i>Point ggplot</i>
----------	---------------------

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,  
  blend = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_breaks_n = NULL,  
  x_expand = NULL,  
  x_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>).

coord	A coordinate system. A coord_*() 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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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 *_breaks = NULL.
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 facet_labels).
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 *_mode_* 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 transform_ prefix (e.g. "log10").
col_drop, facet_drop	For a discrete variable, FALSE or TRUE 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>	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 |>
  gg_point(
```



```
x = flipper_length_mm,  
y = body_mass_g,  
col = species,  
)
```

gg_pointrange

Pointrange ggplot

Description

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

Usage

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

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. <code>ggplot2::position_identity()</code>).
coord	A coordinate system. A coord_*(<i>)</i> 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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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 *_breaks = NULL.
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 *_mode_* 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, 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, <code>FALSE</code> or <code>TRUE</code> 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>	<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, 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()

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,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
```

```
ymin = NULL,  
ymax = NULL,  
yend = NULL,  
z = NULL,  
col = NULL,  
facet = NULL,  
facet2 = NULL,  
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_breaks_n = NULL,  
x_expand = NULL,  
x_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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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()

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,
  )
```



```

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>).

coord	A coordinate system. A <code>coord_*</code> () function that outputs a constructed <code>ggproto</code> <code>Coord</code> 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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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.

<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>	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 |>
  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,  
  blend = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_breaks_n = NULL,  
  x_expand = NULL,  
  x_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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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 transform_ prefix (e.g. "log10").
col_drop, facet_drop	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol, col_legend_nrow	The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
col_palette	A character vector of hex codes (or names) or a <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 + *_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 <code>snakecase::to_sentence_case</code> .

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,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
```

```
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_breaks_n = NULL,  
x_expand = NULL,  
x_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>blend</code>	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
<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, 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()

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,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
```

```
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_breaks_n = NULL,  
x_expand = NULL,  
x_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>blend</code>	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
<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()

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,
blend = NULL,
x = NULL,
xmin = NULL,
xmax = NULL,
xend = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_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>blend</code>	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
<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.

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 x_label, y_label and col_label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

gg_ribbon_line

Ribbon line ggplot

Description

Create a ribbon line ggplot with a wrapper around `ggplot2::ggplot() + geom_smooth(stat = "identity", ...)`.

Usage

```
gg_ribbon_line(  
  data = NULL,  
  ...,  
  stat = "identity",  
  position = "identity",  
  coord = ggplot2::coord_cartesian(clip = "off"),  
  mode = NULL,  
  mode_orientation = NULL,  
  blend = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_breaks_n = NULL,  
  x_expand = NULL,  
  x_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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").

x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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.
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 + *_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)

set_blanket()

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

`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,  
  blend = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_breaks_n = NULL,  
  x_expand = NULL,  
  x_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>).

coord	A coordinate system. A coord_*() 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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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 *_breaks = NULL.
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 facet_labels).
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 *_mode_* 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 transform_ prefix (e.g. "log10").
col_drop, facet_drop	For a discrete variable, FALSE or TRUE 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>	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 |>
  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,  
  blend = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_breaks_n = NULL,  
  x_expand = NULL,  
  x_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> .

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. <code>ggplot2::position_identity()</code>).
coord	A coordinate system. A coord_*(<i>)</i> 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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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 *_breaks = NULL.
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 *_mode_* 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, 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, <code>FALSE</code> or <code>TRUE</code> 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>	<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, 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()

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,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
```

```
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_breaks_n = NULL,  
x_expand = NULL,  
x_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>blend</code>	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
<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, 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()

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,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
```

```
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_breaks_n = NULL,  
x_expand = NULL,  
x_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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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.

<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_smooth(
    x = flipper_length_mm,
    y = body_mass_g,
    col = species,
    se = TRUE,
    blend = "multiply",
  )
```

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,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
```

```
y = NULL,  
ymin = NULL,  
ymax = NULL,  
yend = NULL,  
z = NULL,  
col = NULL,  
facet = NULL,  
facet2 = NULL,  
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_breaks_n = NULL,  
x_expand = NULL,  
x_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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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 <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,
```

```
blend = NULL,  
x = NULL,  
xmin = NULL,  
xmax = NULL,  
xend = NULL,  
y = NULL,  
ymin = NULL,  
ymax = NULL,  
yend = NULL,  
z = NULL,  
col = NULL,  
facet = NULL,  
facet2 = NULL,  
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_breaks_n = NULL,  
x_expand = NULL,  
x_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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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.

<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()

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,
    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,  
  blend = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_breaks_n = NULL,  
  x_expand = NULL,  
  x_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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").

x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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.
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 + *_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()

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,  
  blend = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_breaks_n = NULL,  
  x_expand = NULL,  
  x_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 coord_*() 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".
blend	The blending mode per <code>ggblend::blend()</code> (e.g. "multiply").
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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 *_breaks = NULL.
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 facet_labels).
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 *_mode_* 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 transform_ prefix (e.g. "log10").
col_drop, facet_drop	For a discrete variable, FALSE or TRUE 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>	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 = 0.25,
  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 = axis_line_linewidth,
  legend_background_fill = plot_background_fill,
  legend_key_fill = plot_background_fill,
  legend_ticks_colour = legend_axis_line_colour,
  legend_ticks_linewidth = legend_axis_line_linewidth,
  legend_ticks_length = ggplot2::rel(c(0.175, 0))
)

light_mode_t(
  ...,
  base_size = 11,
  base_family = "",
  base_colour = "#121B24FF",
  axis_line_colour = "#121B24FF",
  axis_line_linewidth = 0.25,
  axis_ticks_colour = axis_line_colour,
  axis_ticks_linewidth = axis_line_linewidth,
  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 = axis_line_linewidth,
  legend_background_fill = plot_background_fill,
  legend_key_fill = plot_background_fill,
  legend_ticks_colour = legend_axis_line_colour,
  legend_ticks_linewidth = legend_axis_line_linewidth,
  legend_ticks_length = ggplot2::rel(c(0.175, 0))
)

light_mode_b(
  ...,
  base_size = 11,
```

```

base_family = "",
base_colour = "#121B24FF",
axis_line_colour = "#121B24FF",
axis_line_linewidth = 0.25,
axis_ticks_colour = axis_line_colour,
axis_ticks_linewidth = axis_line_linewidth,
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 = axis_line_linewidth,
legend_background_fill = plot_background_fill,
legend_key_fill = plot_background_fill,
legend_ticks_colour = legend_axis_line_colour,
legend_ticks_linewidth = legend_axis_line_linewidth,
legend_ticks_length = ggplot2::rel(c(0.175, 0))
)

```

Arguments

...	Provided to 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 the style

Description

Weave the style by setting:

1. the mode to be added by default
2. the geom defaults (e.g. colour/fill), and text and reference line defaults
3. the col_palettes for discrete, continuous and ordinal colour/fill scales

Alternatively, use the weave_* functions to only apply a subset of these. A weave_theme function is also provided to set a theme *without* gg_* side-effects. `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_colour = "#121B24FF",
  reference_linewidth = 0.25,
  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

...	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", "label", "hline", "vline" and "abline" geoms).
fill	A default hex colour for the fill of geoms (other than "text", "label", "hline", "vline" and "abline" geoms).
text_colour	A default hex colour for the colour 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_colour	A default hex colour for the colour of the "hline", "vline" and "abline" geoms.
reference_linewidth	A default hex colour for the colour of the "hline", "vline" and "abline" geoms.
col_palette_d	For a discrete scale, a character vector of hex codes.
col_palette_c	For a continuous scale, a character vector of hex codes.
col_palette_o	For an ordinal scale, a <code>scales::pal_*</code> () function.
col_palette_na_d	For a discrete scale, a hex code.
col_palette_na_c	For a continuous scale, a hex code.
col_palette_na_o	For an ordinal scale, a hex code.

Value

A globally set style.

Examples

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

set_blanket(
  mode = dark_mode_r(),
  colour = "#E7298AFF",
  colour_text = darkness[1],
  colour_hline = darkness[1],
  colour_vline = 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

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

`weave_geom_defaults` *Set a series of geom defaults*

Description

Update all the geom defaults.

[ggplot2::update_geom_defaults\(\)](#) can be used to further fine-tune individual geom defaults.

Usage

```

weave_geom_defaults(
  colour = "#357BA2FF",
  fill = colour,
  text_colour = "#121B24FF",
  text_size = 11/2.835052,
  text_family = "",
  reference_colour = "#121B24FF",
  reference_linewidth = 0.25
)

```

Arguments

colour	A default hex colour for the colour of geoms (other than "text", "label", "hline", "vline" and "abline" geoms).
fill	A default hex colour for the fill of geoms (other than "text", "label", "hline", "vline" and "abline" geoms).
text_colour	A default hex colour for the colour 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_colour	A default hex colour for the colour of the "hline", "vline" and "abline" geoms.
reference_linewidth	A default hex colour for the colour of the "hline", "vline" and "abline" 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 to apply without side-effects</i>
-------------	--

Description

Set a theme to added to gg_* functions *without* side-effects. Note this sets the mode to NULL to allow this to work, and therefore should be run after `set_blanket`.

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.
-------	---

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