

Package ‘ggblanket’

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Title Simplify 'ggplot2' Visualisation

Version 12.1.0

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

...	Provided to require argument naming, support trailing commas etc.
dark	A dark colour.
light	A light colour.

Value

A ggplot2 aesthetic

Examples

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

set_blanket()

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

```

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

penguins |>
  count(species, sex) |>
  gg_col(
    x = sex,
    y = n,
    col = species,
    position = position_dodge(preserve = "single"),
    width = 0.75,
    x_labels = \(\x) str_to_sentence(x),
    theme = 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"
...	Extra parameters passed to <code>ggplot2::annotate("segment", ...)</code> .
x_position	The position of the "x" axis, if applicable. Either "bottom" or "top".
y_position	The position of the "y" axis, if applicable. Either "left" or "right".
colour	The colour of the annotated segment.
linewidth	The linewidth of the annotated segment.

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

Dark mode theme family

Description

A dark mode family of functions:

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

Usage

```
dark_mode_r(
  ...,
  base_size = 11,
  base_family = "",
  base_colour = "#C8D7DFFF",
  axis_line_colour = "#C8D7DFFF",
  axis_line_linewidth = 0.25,
  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 require argument naming, support trailing commas 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"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = 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_case = NULL
)

```

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>).
theme	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.
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> .

<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>*_theme_*</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>+ *_theme_*</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_case	A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

 gg_bar

Bar ggplot

Description

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

Usage

```
gg_bar(
  data = NULL,
  ...,
  stat = "count",
  position = "stack",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
```

```
theme_axis_line_rm = NULL,  
theme_axis_ticks_rm = NULL,  
theme_panel_grid_rm = 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_case = NULL
)

```

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
<code>theme_axis_line_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
<code>theme_axis_ticks_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
<code>theme_panel_grid_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.

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>*_theme_*</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 + *_theme_*() 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_case	A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

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

set_blanket()

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

`gg_bin_2d`*Bin_2d ggplot*

Description

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

Usage

```
gg_bin_2d(  
  data = NULL,  
  ...,  
  stat = "bin2d",  
  position = "identity",  
  coord = ggplot2::coord_cartesian(clip = "off"),  
  theme = NULL,  
  theme_orientation = NULL,  
  theme_axis_line_rm = NULL,  
  theme_axis_ticks_rm = NULL,  
  theme_panel_grid_rm = 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_case = NULL
)

```

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 sub-

	class object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
coord	A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether the gg_* function should remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether the gg_* function should remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether the gg_* function should remove the relevant panel grid per the theme_orientation of the plot.
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. \(\times\) 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 *_theme_* 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>*_theme_*()</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_case</code>	A function to format the label of unlabelled variables. Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

gg_blanket

Blanket ggplot

Description

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

Usage

```
gg_blanket(
  data = NULL,
  ...,
  geom = "blank",
  stat = "identity",
  position = "identity",
  coord = NULL,
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = 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_case = NULL
)

```

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>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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
<code>theme_axis_line_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
<code>theme_axis_ticks_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
<code>theme_panel_grid_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.
<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, 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>*_theme_*</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>+ *_theme_*</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_case	A function to format the 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"),  
  theme = NULL,  
  theme_orientation = NULL,  
  theme_axis_line_rm = NULL,  
  theme_axis_ticks_rm = NULL,  
  theme_panel_grid_rm = 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_case = NULL
)

```

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".

theme_axis_line_rm	TRUE or FALSE of whether the gg_* function should remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether the gg_* function should remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether the gg_* function should remove the relevant panel grid per the theme_orientation of the plot.
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 *_theme_* 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").

<code>col_drop</code> , <code>facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol</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>*_theme_*</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_case</code>	A function to format the label 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_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"),  
  theme = NULL,  
  theme_orientation = NULL,  
  theme_axis_line_rm = NULL,  
  theme_axis_ticks_rm = NULL,  
  theme_panel_grid_rm = 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_case = NULL  
)
```


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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
<code>theme_axis_line_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
<code>theme_axis_ticks_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
<code>theme_panel_grid_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.
<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>*_theme_*</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>*_theme_*</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_case</code>	A function to format the label 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"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = 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_case = NULL
  )

```

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
<code>theme_axis_line_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
<code>theme_axis_ticks_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
<code>theme_panel_grid_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.
<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, y_breaks, col_breaks</code>	A <code>scales::breaks_*</code> function (e.g. <code>scales::breaks_*</code> ()), or a vector of breaks.
<code>x_breaks_n, y_breaks_n, col_breaks_n</code>	A number of desired breaks for when <code>*_breaks = NULL</code> .
<code>x_expand, y_expand</code>	Padding to the limits with the <code>ggplot2::expansion()</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_expand_limits, y_expand_limits, col_expand_limits</code>	For a continuous variable, any values that the limits should encompass (e.g. <code>0</code>). For a discrete scale, manipulate the data instead with <code>forcats::fct_expand</code> .
<code>x_label, y_label, col_label</code>	Label for the axis or legend title. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<code>x_labels, y_labels, col_labels, facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*</code> ()), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
<code>x_position, y_position</code>	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_theme_*</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>+ *_theme_*</code> () may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

gg_contour_filled *Contour_filled ggplot*

Description

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

Usage

```
gg_contour_filled(  
  data = NULL,  
  ...,  
  stat = "contour_filled",  
  position = "identity",  
  coord = ggplot2::coord_cartesian(clip = "off"),  
  theme = NULL,  
  theme_orientation = NULL,  
  theme_axis_line_rm = NULL,  
  theme_axis_ticks_rm = NULL,  
  theme_panel_grid_rm = 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_case = NULL
)

```

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".

theme_axis_line_rm	TRUE or FALSE of whether the gg_* function should remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether the gg_* function should remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether the gg_* function should remove the relevant panel grid per the theme_orientation of the plot.
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 *_theme_* 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 scales::pal_*() function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a scales::rescale() function.
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_theme_*() 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_case	A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

faithfuld |>
  gg_contour_filled(
```

```
x = waiting,  
y = eruptions,  
z = density,  
bins = 8,  
)
```

gg_crossbar

Crossbar ggplot

Description

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

Usage

```
gg_crossbar(  
  data = NULL,  
  ...,  
  stat = "identity",  
  position = "identity",  
  coord = ggplot2::coord_cartesian(clip = "off"),  
  theme = NULL,  
  theme_orientation = NULL,  
  theme_axis_line_rm = NULL,  
  theme_axis_ticks_rm = NULL,  
  theme_panel_grid_rm = 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_case = NULL  
)
```

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
<code>theme_axis_line_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
<code>theme_axis_ticks_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
<code>theme_panel_grid_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.
<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>*_theme_*</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>*_theme_*</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_case	A function to format the label 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_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"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
```



```
theme_panel_grid_rm = 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_case = NULL
)

```

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
<code>theme_axis_line_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
<code>theme_axis_ticks_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
<code>theme_panel_grid_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.
<code>blend</code>	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>*_theme_*</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 + *_theme_*() 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_case	A function to format the 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"),  
  theme = NULL,  
  theme_orientation = NULL,  
  theme_axis_line_rm = NULL,  
  theme_axis_ticks_rm = NULL,  
  theme_panel_grid_rm = 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_case = NULL
)

```

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 sub-

	class object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
coord	A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether the gg_* function should remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether the gg_* function should remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether the gg_* function should remove the relevant panel grid per the theme_orientation of the plot.
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. \(\times\) 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 *_theme_* 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>*_theme_*()</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_case</code>	A function to format the label of unlabelled variables. Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

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

set_blanket()

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

`gg_density_2d_filled` *Density_2d_filled* ggplot

Description

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

Usage

```
gg_density_2d_filled(
  data = NULL,
  ...,
  stat = "density_2d_filled",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = 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_case = NULL
  )

```

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>).
theme	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.
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>*_theme_*</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>+ *_theme_*</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_case	A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

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

set_blanket()

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

gg_errorbar

Errorbar ggplot

Description

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

Usage

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

```
theme = NULL,  
theme_orientation = NULL,  
theme_axis_line_rm = NULL,  
theme_axis_ticks_rm = NULL,  
theme_panel_grid_rm = 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_case = NULL
)

```

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
<code>theme_axis_line_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
<code>theme_axis_ticks_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.

theme_panel_grid_rm	TRUE or FALSE of whether the gg_* function should remove the relevant panel grid per the theme_orientation of the plot.
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 *_theme_* theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
x_sec_axis, y_sec_axis	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
x_symmetric, y_symmetric	TRUE or FALSE of whether a symmetric scale.
x_transform, y_transform, col_transform	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_prefix</code> (e.g. "log10").
col_drop, facet_drop	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol, col_legend_nrow	The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*</code> () function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale</code> () function.
<code>col_steps</code>	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
<code>facet_axes</code>	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + <code>*_theme_*</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_case</code>	A function to format the label 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"),  
  theme = NULL,  
  theme_orientation = NULL,  
  theme_axis_line_rm = NULL,  
  theme_axis_ticks_rm = NULL,  
  theme_panel_grid_rm = 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_case = NULL
```

)

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
<code>theme_axis_line_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
<code>theme_axis_ticks_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
<code>theme_panel_grid_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.
<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, 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>*_theme_*</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>+ *_theme_*</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_case	A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

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

set_blanket()

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

gg_function

Function ggplot

Description

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

Usage

```
gg_function(
  data = NULL,
  ...,
  stat = "function",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = 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_case = NULL
)

```

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
<code>theme_axis_line_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
<code>theme_axis_ticks_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
<code>theme_panel_grid_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.
<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.

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>*_theme_*</code> theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
x_sec_axis, y_sec_axis	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
x_symmetric, y_symmetric	TRUE or FALSE of whether a symmetric scale.
x_transform, y_transform, col_transform	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_*</code> prefix (e.g. <code>"log10"</code>).
col_drop, facet_drop	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol, col_legend_nrow	The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
col_palette	A character vector of hex codes (or names) or a <code>scales::pal_*</code> () function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a <code>scales::rescale()</code> function.
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
facet_axes	Whether to add interior axes and ticks with <code>"margins"</code> , <code>"all"</code> , <code>"all_x"</code> , or <code>"all_y"</code> . Sometimes <code>+ *_theme_*</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_case	A function to format the 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"),  
  theme = NULL,  
  theme_orientation = NULL,  
  theme_axis_line_rm = NULL,  
  theme_axis_ticks_rm = NULL,  
  theme_panel_grid_rm = 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_case = NULL
)

```

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".

theme_axis_line_rm	TRUE or FALSE of whether the gg_* function should remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether the gg_* function should remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether the gg_* function should remove the relevant panel grid per the theme_orientation of the plot.
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 *_theme_* 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").

<code>col_drop</code> , <code>facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol</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>*_theme_*</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_case</code>	A function to format the label of unlabelled variables. Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

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

set_blanket()

diamonds |>
```

```
gg_hex(  
  x = carat,  
  y = price,  
)
```

gg_histogram

Histogram ggplot

Description

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

Usage

```
gg_histogram(  
  data = NULL,  
  ...,  
  stat = "bin",  
  position = "stack",  
  coord = ggplot2::coord_cartesian(clip = "off"),  
  theme = NULL,  
  theme_orientation = NULL,  
  theme_axis_line_rm = NULL,  
  theme_axis_ticks_rm = NULL,  
  theme_panel_grid_rm = 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_case = NULL  
)
```


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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
<code>theme_axis_line_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
<code>theme_axis_ticks_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
<code>theme_panel_grid_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.
<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>*_theme_*</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>*_theme_*</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_case</code>	A function to format the label of unlabelled variables. Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

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

set_blanket()

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

gg_jitter

Jitter ggplot

Description

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

Usage

```
gg_jitter(
  data = NULL,
  ...,
  stat = "identity",
  position = "jitter",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = 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_case = NULL
)

```

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>).
theme	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.
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>*_theme_*</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>+ *_theme_*</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_case	A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

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

set_blanket()

set.seed(123)

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

gg_label

Label ggplot

Description

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

Usage

```
gg_label(  
  data = NULL,  
  ...,  
  stat = "identity",  
  position = "identity",  
  coord = ggplot2::coord_cartesian(clip = "off"),  
  theme = NULL,  
  theme_orientation = NULL,  
  theme_axis_line_rm = NULL,  
  theme_axis_ticks_rm = NULL,  
  theme_panel_grid_rm = 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_case = NULL
)

```

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".

theme_axis_line_rm	TRUE or FALSE of whether the gg_* function should remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether the gg_* function should remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether the gg_* function should remove the relevant panel grid per the theme_orientation of the plot.
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 *_theme_* 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 scales::pal_*() function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a scales::rescale() function.
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_theme_*() 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_case	A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()
set_font_defaults()

bind_rows(
```

```

mtcars |> slice_min(order_by = mpg),
mtcars |> slice_max(order_by = mpg)
) |>
tibble::rownames_to_column("themel") |>
gg_label(
  x = themel,
  y = mpg,
  label = themel,
  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"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = 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_case = NULL
)

```

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
<code>theme_axis_line_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
<code>theme_axis_ticks_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
<code>theme_panel_grid_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.
<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>*_theme_*</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>+ *_theme_*</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_case	A function to format the 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"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
```



```
theme_panel_grid_rm = 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_case = NULL
)

```

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
<code>theme_axis_line_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
<code>theme_axis_ticks_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
<code>theme_panel_grid_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.
<code>blend</code>	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>*_theme_*</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 + *_theme_*() 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_case	A function to format the 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"),  
  theme = NULL,  
  theme_orientation = NULL,  
  theme_axis_line_rm = NULL,  
  theme_axis_ticks_rm = NULL,  
  theme_panel_grid_rm = 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_case = NULL
)

```

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 sub-

	class object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
coord	A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether the gg_* function should remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether the gg_* function should remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether the gg_* function should remove the relevant panel grid per the theme_orientation of the plot.
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. \(\times\) 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 *_theme_* 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>*_theme_*()</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_case</code>	A function to format the label of unlabelled variables. Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

gg_point

Point ggplot

Description

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

Usage

```
gg_point(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = 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_case = NULL
)

```

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>).
theme	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.
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>*_theme_*</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>+ *_theme_*</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_case	A function to format the label 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"),
  theme = NULL,
```

```
theme_orientation = NULL,  
theme_axis_line_rm = NULL,  
theme_axis_ticks_rm = NULL,  
theme_panel_grid_rm = 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_case = NULL
)

```

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
<code>theme_axis_line_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
<code>theme_axis_ticks_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.

theme_panel_grid_rm	TRUE or FALSE of whether the gg_* function should remove the relevant panel grid per the theme_orientation of the plot.
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 *_theme_* theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
x_sec_axis, y_sec_axis	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
x_symmetric, y_symmetric	TRUE or FALSE of whether a symmetric scale.
x_transform, y_transform, col_transform	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_prefix</code> (e.g. "log10").
col_drop, facet_drop	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol, col_legend_nrow	The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

<code>col_palette</code>	A character vector of hex codes (or names) or a <code>scales::pal_*</code> () function.
<code>col_palette_na</code>	A hex code (or name) for the colour of NA values.
<code>col_rescale</code>	For a continuous variable, a <code>scales::rescale</code> () function.
<code>col_steps</code>	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
<code>facet_axes</code>	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + <code>*_theme_*</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_case</code>	A function to format the label 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"),  
  theme = NULL,  
  theme_orientation = NULL,  
  theme_axis_line_rm = NULL,  
  theme_axis_ticks_rm = NULL,  
  theme_panel_grid_rm = 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_case = NULL
```

)

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
<code>theme_axis_line_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
<code>theme_axis_ticks_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
<code>theme_panel_grid_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.
<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, 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>*_theme_*</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>+ *_theme_*</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_case	A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

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

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

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

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

`gg_qq`*Qq ggplot*

Description

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

Usage

```
gg_qq(  
  data = NULL,  
  ...,  
  stat = "qq",  
  position = "identity",  
  coord = ggplot2::coord_cartesian(clip = "off"),  
  theme = NULL,  
  theme_orientation = NULL,  
  theme_axis_line_rm = NULL,  
  theme_axis_ticks_rm = NULL,  
  theme_panel_grid_rm = 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_case = NULL
)

```

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 sub-

	class object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
coord	A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether the gg_* function should remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether the gg_* function should remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether the gg_* function should remove the relevant panel grid per the theme_orientation of the plot.
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. \(\times\) 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 *_theme_* 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>*_theme_*()</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_case</code>	A function to format the label 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"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = 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_case = NULL
  )

```

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>).
theme	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.
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>*_theme_*</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>+ *_theme_*</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_case	A function to format the 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"),
  theme = NULL,
```

```
theme_orientation = NULL,  
theme_axis_line_rm = NULL,  
theme_axis_ticks_rm = NULL,  
theme_panel_grid_rm = 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_case = NULL
)

```

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
<code>theme_axis_line_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
<code>theme_axis_ticks_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.

theme_panel_grid_rm	TRUE or FALSE of whether the gg_* function should remove the relevant panel grid per the theme_orientation of the plot.
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 *_theme_* theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
x_sec_axis, y_sec_axis	A secondary axis with <code>ggplot2::dup_axis()</code> or <code>ggplot2::sec_axis()</code> .
x_symmetric, y_symmetric	TRUE or FALSE of whether a symmetric scale.
x_transform, y_transform, col_transform	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_prefix</code> (e.g. "log10").
col_drop, facet_drop	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol, col_legend_nrow	The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

col_palette	A character vector of hex codes (or names) or a <code>scales::pal_*</code> () function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a <code>scales::rescale()</code> function.
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + <code>*_theme_*</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_case	A function to format the 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_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"),  
  theme = NULL,  
  theme_orientation = NULL,  
  theme_axis_line_rm = NULL,  
  theme_axis_ticks_rm = NULL,  
  theme_panel_grid_rm = 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_case = NULL
)

```

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 sub-

	class object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
coord	A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether the gg_* function should remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether the gg_* function should remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether the gg_* function should remove the relevant panel grid per the theme_orientation of the plot.
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. \(\times\) 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 *_theme_* 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>*_theme_*()</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_case</code>	A function to format the label of unlabelled variables. Defaults to <code>snakecase::to_sentence_case</code> .

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"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = 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_case = NULL
)

```

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
<code>theme_axis_line_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
<code>theme_axis_ticks_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
<code>theme_panel_grid_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.
<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.

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>*_theme_*</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>+ *_theme_*</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_case	A function to format the 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"),  
  theme = NULL,  
  theme_orientation = NULL,  
  theme_axis_line_rm = NULL,  
  theme_axis_ticks_rm = NULL,  
  theme_panel_grid_rm = 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_case = NULL
)

```

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".

theme_axis_line_rm	TRUE or FALSE of whether the gg_* function should remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether the gg_* function should remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether the gg_* function should remove the relevant panel grid per the theme_orientation of the plot.
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 *_theme_* 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").

<code>col_drop</code> , <code>facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol</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>*_theme_*</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_case</code>	A function to format the label of unlabelled variables. Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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



```
gg_ribbon_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"),  
  theme = NULL,  
  theme_orientation = NULL,  
  theme_axis_line_rm = NULL,  
  theme_axis_ticks_rm = NULL,  
  theme_panel_grid_rm = 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_case = NULL
```

)

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
<code>theme_axis_line_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
<code>theme_axis_ticks_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
<code>theme_panel_grid_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.
<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, 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>*_theme_*</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>+ *_theme_*</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_case	A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

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

set_blanket()

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

gg_segment

Segment ggplot

Description

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

Usage

```
gg_segment(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = 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_case = NULL
)

```

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>).
theme	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
theme_orientation	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line_rm	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.
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>*_theme_*</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>+ *_theme_*</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_case	A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

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

set_blanket()

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

gg_sf

Sf ggplot

Description

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

Usage

```
gg_sf(  
  data = NULL,  
  ...,  
  stat = "sf",  
  position = "identity",  
  coord = ggplot2::coord_sf(clip = "off"),  
  theme = NULL,  
  theme_orientation = NULL,  
  theme_axis_line_rm = NULL,  
  theme_axis_ticks_rm = NULL,  
  theme_panel_grid_rm = 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_case = NULL
)

```

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".

theme_axis_line_rm	TRUE or FALSE of whether the gg_* function should remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether the gg_* function should remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether the gg_* function should remove the relevant panel grid per the theme_orientation of the plot.
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 *_theme_* theme, add caption = "" or caption = "\n".
x_sec_axis, y_sec_axis	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric, y_symmetric	TRUE or FALSE of whether a symmetric scale.
x_transform, y_transform, col_transform	For a continuous scale, a transformation object (e.g. scales::transform_log10()) or character string of this minus the transform_prefix (e.g. "log10").

<code>col_drop</code> , <code>facet_drop</code>	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<code>col_legend_ncol</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>*_theme_*()</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_case</code>	A function to format the label 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"),  
  theme = NULL,  
  theme_orientation = NULL,  
  theme_axis_line_rm = NULL,  
  theme_axis_ticks_rm = NULL,  
  theme_panel_grid_rm = 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_case = NULL  
)
```

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
<code>theme_axis_line_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
<code>theme_axis_ticks_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
<code>theme_panel_grid_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.
<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>*_theme_*</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>*_theme_*</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_case</code>	A function to format the label 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_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"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = 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_case = NULL
)

```

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
<code>theme_axis_line_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
<code>theme_axis_ticks_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
<code>theme_panel_grid_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.
<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, y_breaks, col_breaks</code>	A <code>scales::breaks_*</code> function (e.g. <code>scales::breaks_*</code> ()), or a vector of breaks.
<code>x_breaks_n, y_breaks_n, col_breaks_n</code>	A number of desired breaks for when <code>*_breaks = NULL</code> .
<code>x_expand, y_expand</code>	Padding to the limits with the <code>ggplot2::expansion()</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_expand_limits, y_expand_limits, col_expand_limits</code>	For a continuous variable, any values that the limits should encompass (e.g. <code>0</code>). For a discrete scale, manipulate the data instead with <code>forcats::fct_expand</code> .
<code>x_label, y_label, col_label</code>	Label for the axis or legend title. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<code>x_labels, y_labels, col_labels, facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>\(x) stringr::str_to_sentence(x)</code> or <code>scales::label_*</code> ()), or a vector of labels. (Note this must be named for <code>facet_labels</code>).
<code>x_position, y_position</code>	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a <code>*_theme_*</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>+ *_theme_*</code> () may be needed.
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

gg_text

Text ggplot

Description

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

Usage

```
gg_text(  
  data = NULL,  
  ...,  
  stat = "identity",  
  position = "identity",  
  coord = ggplot2::coord_cartesian(clip = "off"),  
  theme = NULL,  
  theme_orientation = NULL,  
  theme_axis_line_rm = NULL,  
  theme_axis_ticks_rm = NULL,  
  theme_panel_grid_rm = 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_case = NULL
)

```

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".

theme_axis_line_rm	TRUE or FALSE of whether the gg_* function should remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether the gg_* function should remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether the gg_* function should remove the relevant panel grid per the theme_orientation of the plot.
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 *_theme_* 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").

<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>*_theme_*</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_case</code>	A function to format the label of unlabelled variables. Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()
set_font_defaults()

bind_rows(
```

```
mtcars |> slice_min(order_by = mpg),
mtcars |> slice_max(order_by = mpg)
) |>
tibble::rownames_to_column("themel") |>
gg_text(
  x = themel,
  y = mpg,
  label = themel,
  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"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = 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_case = NULL
)

```

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
<code>theme_axis_line_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
<code>theme_axis_ticks_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
<code>theme_panel_grid_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.
<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>*_theme_*</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>+ *_theme_*</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_case	A function to format the 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"),
  theme = NULL,
  theme_orientation = NULL,
```

```
theme_axis_line_rm = NULL,  
theme_axis_ticks_rm = NULL,  
theme_panel_grid_rm = 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_case = NULL
)

```

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>theme</code>	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
<code>theme_orientation</code>	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
<code>theme_axis_line_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
<code>theme_axis_ticks_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
<code>theme_panel_grid_rm</code>	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.

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>*_theme_*</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 + *_theme_*() 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_case	A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

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

set_blanket()

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

grey	<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

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)
...	If numeric, arguments passed to the scales::comma function. Otherwise, arguments passed to format.

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 *_theme_* 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 *_theme_* 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 require argument naming, support trailing commas 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

Set the style by setting:

1. the geom defaults, including the colour (and fill) of geoms (i.e. `weave_geom_defaults`)
2. the colour (and fill) palettes (i.e. discrete, continuous and ordinal) (i.e. `weave_col_palette`)
3. the theme, and how/what side-effects are to be applied (i.e. `weave_theme`)
4. the function to apply to a unspecified/unlabelled `x_label`, `y_label`, `col_label` etc (i.e. `weave_label_case`).

`set_font_defaults()` and `set_reference_defaults()` can be used to customise "text", "label", "abline", "vline" and "hline" geom defaults.

`ggplot2::update_geom_defaults()` can be used to further fine-tune geom defaults.

Usage

```
set_blanket(
  ...,
  colour = "#357BA2FF",
  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",
  theme = light_mode_r(),
  theme_orientation = NULL,
  theme_axis_line_rm = TRUE,
  theme_axis_ticks_rm = TRUE,
  theme_panel_grid_rm = TRUE,
  label_case = snakecase::to_sentence_case
)
```

Arguments

...	Provided to require argument naming, support trailing commas etc.
colour	For most geoms, a default hex code for the colour of geoms (i.e. geoms other than "text", "label", "hline", "vline" and "abline"). Note "fill" inherits from this argument.
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.

theme	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
theme_orientation	The orientation of plot, which affects the theme components that can be removed by the <code>gg_*</code> function. Either "x" or "y". Defaults to NULL, which lets the <code>gg_*</code> function guess it based on the data.
theme_axis_line_rm	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis line per the <code>theme_orientation</code> of the plot.
theme_axis_ticks_rm	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant axis ticks per the <code>theme_orientation</code> of the plot.
theme_panel_grid_rm	TRUE or FALSE of whether the <code>gg_*</code> function should remove the relevant panel grid per the <code>theme_orientation</code> of the plot.
label_case	A function to apply to a unspecified/unlabelled <code>x_label</code> , <code>y_label</code> , <code>col_label</code> etc. Defaults to <code>snakecase::to_sentence_case</code> .

Value

A globally set style.

Examples

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

set_blanket(
  theme = dark_mode_r(),
  colour = "#E7298AFF",
  col_palette_d = c("#1B9E77FF", "#D95F02FF", "#7570b3FF", "#E7298AFF",
                    "#66A61EFF", "#E6AB02FF", "#A6761DFF", "#666666FF"),
)

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

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

set_font_defaults *Set the font geom defaults*

Description

Update the "text" and "label" geom defaults. Note all other text is controlled by the theme.

Usage

```
set_font_defaults(  
  ...,  
  colour = "#121B24FF",  
  fill = "#FFFFFF",  
  size = 11/2.835052,  
  family = ""  
)
```

Arguments

...	Provided to require argument naming, support trailing commas etc.
colour	A hex code.
fill	A hex code.
size	A size.
family	A family.

Examples

```
library(ggplot2)  
library(dplyr)  
library(palmerpenguins)  
  
set_blanket(theme = dark_mode_r())  
set_font_defaults(colour = darkness[1])  
set_reference_defaults(colour = darkness[1])  
  
penguins |>  
  gg_point(  
    x = flipper_length_mm,  
    y = body_mass_g,  
    x_breaks_n = 4,  
  ) +  
  geom_vline(xintercept = 200) +  
  annotate("text", x = I(0.25), y = I(0.75), label = "Here")
```

`set_reference_defaults`*Set reference-line geom defaults*

Description

Update the "abline", "hline" and "vline" geom defaults.

Usage

```
set_reference_defaults(..., colour = "#121B24FF", linewidth = 0.25)
```

Arguments

<code>...</code>	Provided to require argument naming, support trailing commas etc.
<code>colour</code>	A hex code.
<code>linewidth</code>	A linewidth.

Examples

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

set_blanket(theme = dark_mode_r())
set_font_defaults(colour = darkness[1])
set_reference_defaults(colour = darkness[1])

penguins |>
  gg_point(
    x = flipper_length_mm,
    y = body_mass_g,
    x_breaks_n = 4,
  ) +
  geom_vline(xintercept = 200) +
  annotate("text", x = I(0.25), y = I(0.75), label = "Here")
```

`weave_col_palette`*Set colour (and fill) palettes*

Description

Set colour (and fill) palettes

Usage

```
weave_col_palette(
  ...,
  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 require argument naming, support trailing commas etc.
col_palette_d	For a discrete scale, a character vector of hex codes. Use NULL for ggplot2 default. Use NULL to leave as is.
col_palette_c	For a continuous scale, a character vector of hex codes. Use NULL for ggplot2 default. Use NULL to leave as is.
col_palette_o	For an ordinal scale, a scales::pal_*() function. Use NULL for ggplot2 default. Use NULL to leave as is.
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.

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")
```

Arguments

...	Provided to require argument naming, support trailing commas etc.
colour	For most geoms, a default hex code for the colour of geoms (i.e. geoms other than "text", "label", "hline", "vline" and "abline"). Note "fill" inherits from this argument.

weave_label_case	<i>Set a label case function</i>
------------------	----------------------------------

Description

Set a function to format the label of unlabelled variables.

Usage

```
weave_label_case(label_case = snakecase::to_sentence_case, ...)
```

Arguments

label_case	A function to apply to a unspecified/unlabelled x_label, y_label, col_label etc. Defaults to snakecase::to_sentence_case.
...	Provided to require argument naming, support trailing commas etc.

weave_theme	<i>Set a theme</i>
-------------	--------------------

Description

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

Usage

```
weave_theme(
  theme = light_mode_r(),
  ...,
  theme_orientation = NULL,
  theme_axis_line_rm = TRUE,
  theme_axis_ticks_rm = TRUE,
  theme_panel_grid_rm = TRUE
)
```

Arguments

theme	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code>).
...	Provided to require argument naming, support trailing commas etc.
theme_orientation	The orientation of plot, which affects the theme components that can be removed by the gg_* function. Either "x" or "y". Defaults to NULL, which lets the gg_* function guess it based on the data.

`theme_axis_line_rm`

TRUE or FALSE of whether the `gg_*` function should remove the relevant axis line per the `theme_orientation` of the plot.

`theme_axis_ticks_rm`

TRUE or FALSE of whether the `gg_*` function should remove the relevant axis ticks per the `theme_orientation` of the plot.

`theme_panel_grid_rm`

TRUE or FALSE of whether the `gg_*` function should remove the relevant panel grid per the `theme_orientation` of the plot.

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