

# Package: ggblanket (via r-universe)

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**Title** Simplify 'ggplot2' Visualisation

**Version** 10.0.0.9000

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

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

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

**Imports** colorspace, dplyr (>= 1.0.4), farver, forcats, ggplot2 (>= 3.5.0), grid, hms (>= 0.5.0), labelled, lubridate (>= 1.7.8), magrittr, purrr, rlang (>= 1.1.0), scales (>= 1.3.0), snakecase, stringr (>= 1.3.0), tidyr (>= 1.0.0), tidyselect (>= 1.2.0), viridisLite

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**VignetteBuilder** knitr

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

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**Repository** <https://davidhodge931.r-universe.dev>

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aes\_colour\_contrast *A colour aesthetic for contrast*

---

## Description

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

## Usage

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

## Arguments

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

## Value

A `ggplot2` aesthetic

## Examples

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

set_blanket()

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

```

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

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

```

---

aes\_colour\_darken      *Lighten/darken a colour/fill aesthetic*

---

## Description

Lighten/darken a colour/fill aesthetic based on a

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

## Usage

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

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

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

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

**Arguments**

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

**Value**

A ggplot2 aesthetic

**Examples**

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

set_blanket(
  alpha_recursive = 1,
)

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

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

---

blue

*A blue colour*

---

**Description**

A blue colour.

**Usage**

```
blue
```

**Value**

A character vector.

**Examples**

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

---

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

---

**Description**

A dark mode family of functions:

- dark\_mode\_r() with legend on right
- dark\_mode\_t() with legend on top
- dark\_mode\_b() with legend on bottom

**Usage**

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

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

```

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

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

```

### Arguments

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

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

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

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

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

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

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

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

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

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

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

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

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

### **Value**

A ggplot theme.

### **Examples**

```
library(palmerpenguins)
library(ggplot2)

set_blanket()

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

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

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

---

gg\_area

*Area ggplot*

---

### Description

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

### Usage

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

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

**Arguments**

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

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

**Value**

A ggplot object.

**Examples**

```
library(ggplot2)
library(dplyr)

set_blanket()

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

---

gg\_bar

*Bar ggplot*

---

**Description**

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

**Usage**

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

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

```

  label_to_case = snakecase::to_sentence_case
)

```

### Arguments

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

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

**Value**

A ggplot object.

**Examples**

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

set_blanket()

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

---

`gg_bin_2d`*Bin\_2d ggplot*

---

**Description**

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

**Usage**

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

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

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

## Arguments

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

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

**Value**

A ggplot object.

## Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

---

gg\_blanket

*Blanket ggplot*

---

## Description

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

## Usage

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

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

```

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

```

## Arguments

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

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

**Value**

A ggplot object.

**Examples**

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

set_blanket()

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

---

gg\_boxplot

*Boxplot ggplot*

---

**Description**

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

**Usage**

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

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

```

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

```

## Arguments

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

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

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

**Value**

A ggplot object.

**Examples**

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

set_blanket()

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

---

gg\_col

*Col ggplot*

---

**Description**

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

**Usage**

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

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

```

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

```

## Arguments

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

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

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

**Value**

A ggplot object.

**Examples**

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

set_blanket()

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

---

gg\_contour

*Contour ggplot*

---

**Description**

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

**Usage**

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

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

```

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

```

## Arguments

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

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

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

### Value

A ggplot object.

### Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

---

gg\_contour\_filled      *Contour\_filled ggplot*

---

### Description

Create a contour\_filled ggplot with a wrapper around `ggplot2::ggplot() + geom_contour_filled()`.

### Usage

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

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

```

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

```

## Arguments

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

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

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

**Value**

A ggplot object.

**Examples**

```
library(ggplot2)
library(dplyr)

set_blanket()

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

---

gg\_crossbar

*Crossbar ggplot*


---

**Description**

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

**Usage**

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

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

```

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

```

## Arguments

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

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

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

### Value

A ggplot object.

### Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

---

`gg_density`*Density ggplot*

---

**Description**

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

**Usage**

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

```

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

```

### Arguments

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

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

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

**Value**

A ggplot object.

**Examples**

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

set_blanket()

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

---

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

---

### Description

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

### Usage

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

```

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

```

### Arguments

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

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

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

**Value**

A ggplot object.

**Examples**

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

set_blanket()

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

---

gg\_density\_2d\_filled *Density\_2d\_filled* ggplot

---

### Description

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

### Usage

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

```

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

```

### Arguments

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

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

**Value**

A ggplot object.

**Examples**

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

set_blanket()

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

---

`gg_errorbar`*Errorbar ggplot*

---

**Description**

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

**Usage**

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

```

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

```

### Arguments

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

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

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

**Value**

A ggplot object.

**Examples**

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

set_blanket()

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

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

---

gg\_freqpoly

*Freqpoly ggplot*

---

### Description

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

### Usage

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

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

**Arguments**

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

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

**Value**

A ggplot object.

## Examples

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

set_blanket()

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

---

gg\_function

*Function ggplot*

---

## Description

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

## Usage

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

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

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

## Arguments

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

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

**Value**

A ggplot object.

## Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

---

gg\_hex

*Hex ggplot*

---

## Description

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

## Usage

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

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

)

**Arguments**

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

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

**Value**

A ggplot object.

**Examples**

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

set_blanket()

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

---

`gg_histogram`*Histogram ggplot*

---

**Description**

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

**Usage**

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

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

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

### Arguments

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

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

**Value**

A ggplot object.

## Examples

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

set_blanket()

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

---

gg\_jitter

*Jitter ggplot*

---

## Description

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

## Usage

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

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

```

caption = NULL,
label_to_case = snakecase::to_sentence_case
)

```

## Arguments

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

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

**Value**

A ggplot object.

**Examples**

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

set_blanket()

set.seed(123)

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

---

gg\_label

*Label ggplot*

---

**Description**

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

**Usage**

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

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

```

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

```

## Arguments

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

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

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

**Value**

A ggplot object.

**Examples**

```
library(ggplot2)
library(dplyr)

set_blanket()

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

---

gg\_line

*Line ggplot*


---

**Description**

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

**Usage**

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

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

```

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

```

## Arguments

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

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

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

**Value**

A ggplot object.

**Examples**

```
library(ggplot2)
library(dplyr)

set_blanket()

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

---

gg\_linerange

*Linerange ggplot*

---

**Description**

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

**Usage**

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

```

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

```

### Arguments

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

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

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

**Value**

A ggplot object.

**Examples**

```
library(ggplot2)
library(dplyr)

set_blanket()

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

---

`gg_path`*Path ggplot*

---

**Description**

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

**Usage**

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

```

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

```

### Arguments

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

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

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

### Value

A ggplot object.

### Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

---

`gg_point`*Point ggplot*

---

**Description**

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

**Usage**

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

```

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

```

### Arguments

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

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

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

### Value

A ggplot object.

### Examples

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

set_blanket()

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

---

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

---

### Description

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

### Usage

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

```

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

```

### Arguments

<code>data</code>	A data frame or tibble.
<code>...</code>	Other arguments passed to within a <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> ).

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

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

**Value**

A ggplot object.

**Examples**

```
library(ggplot2)
library(dplyr)

set_blanket()

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

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

---

gg\_polygon

*Polygon ggplot*

---

### Description

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

### Usage

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

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

**Arguments**

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

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

**Value**

A ggplot object.

**Examples**

```
library(ggplot2)
library(dplyr)

set_blanket()

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

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

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

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

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

---

gg\_qq

*Qq ggplot*

---

**Description**

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

**Usage**

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

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

```

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

```

## Arguments

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

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

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

**Value**

A ggplot object.

**Examples**

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

set_blanket()

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

---

gg\_quantile

*Quantile ggplot*


---

**Description**

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

**Usage**

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

```

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

```

### Arguments

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

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

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

**Value**

A ggplot object.

**Examples**

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

  set_blanket()

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

---

gg\_raster

*Raster ggplot*


---

**Description**

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

**Usage**

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

```

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

```

### Arguments

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

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

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

**Value**

A ggplot object.

**Examples**

```
library(ggplot2)
library(dplyr)

set_blanket()

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

---

gg\_rect

*Rect ggplot*


---

**Description**

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

**Usage**

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

```

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

```

### Arguments

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

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

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

**Value**

A ggplot object.

**Examples**

```
library(ggplot2)
library(dplyr)

set_blanket()

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

)

---

`gg_ribbon`*Ribbon ggplot*

---

**Description**

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

**Usage**

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

```

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

```

### Arguments

data	A data frame or tibble.
...	Other arguments passed to within a params list in <code>layer()</code> .
stat	A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. "identity").
position	A position adjustment. A snakecase character string of a ggproto Position subclass object minus the Position prefix (e.g. "identity"), or a <code>position_*()</code>

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

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

**Value**

A ggplot object.

**Examples**

```
library(ggplot2)
library(dplyr)

set_blanket()

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

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

---

gg\_rug

*Rug ggplot*

---

## Description

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

## Usage

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

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

### Arguments

data            A data frame or tibble.

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

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

**Value**

A `ggplot` object.

## Examples

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

set_blanket()

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

---

gg\_segment

*Segment ggplot*

---

## Description

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

## Usage

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

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

```

caption = NULL,
label_to_case = snakecase::to_sentence_case
)

```

## Arguments

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

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

**Value**

A ggplot object.

**Examples**

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

set_blanket()

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

---

gg\_sf

*Sf ggplot*

---

**Description**

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

**Usage**

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

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

```

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

```

## Arguments

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

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

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

**Value**

A ggplot object.

**Examples**

```
library(ggplot2)
library(dplyr)

set_blanket()

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

---

 gg\_smooth

*Smooth ggplot*


---

**Description**

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

**Usage**

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

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

```

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

```

## Arguments

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

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

caption           Caption title string.

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

### Value

A ggplot object.

### Examples

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

set_blanket()

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

---

gg\_step

*Step ggplot*

---

### Description

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

### Usage

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

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

```

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

```

### Arguments

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

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

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

**Value**

A ggplot object.

**Examples**

```
library(ggplot2)
library(dplyr)

set_blanket()

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

---

 gg\_text

*Text ggplot*


---

**Description**

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

**Usage**

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

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

```

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

```

### Arguments

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

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

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

**Value**

A ggplot object.

**Examples**

```
library(ggplot2)
library(dplyr)

set_blanket()

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

---

gg\_tile

*Tile ggplot*


---

**Description**

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

**Usage**

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

```

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

```

### Arguments

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

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

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

### Value

A ggplot object.

### Examples

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

set_blanket()

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

---

`gg_violin`*Violin ggplot*

---

**Description**

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

**Usage**

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

```

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

```

### Arguments

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

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

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

**Value**

A ggplot object.

**Examples**

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

set_blanket()

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

---

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

---

**Description**

A grey colour.

**Usage**

grey

**Value**

A character vector.

**Examples**

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

---

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

---

**Description**

A discrete palette that is relatively colour-blind safe.

**Usage**

jumble

teal

orange

navy

red

pink

purple

**Value**

A character vector.

**Examples**

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

---

lightness

*Mode colour and linewidth defaults*


---

**Description**

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

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

**Usage**

```
lightness
```

```
darkness
```

```
linewidthness
```

**Value**

A character vector.

**Examples**

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

---

light\_mode\_r

*Light mode theme family*


---

**Description**

A dark mode family of functions:

- light\_mode\_r() with legend on right
- light\_mode\_t() with legend on top
- light\_mode\_b() with legend on bottom

**Usage**

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

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

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

```

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

```

### Arguments

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

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

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

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

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

**Value**

A ggplot theme.

**Examples**

```
library(palmerpenguins)
library(ggplot2)

set_blanket()

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

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

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

**Description**

Add theme components to a mode used outside of a gg\_\* context

- mode\_orientation\_to\_x() Orientate the plot to the x axis.
- mode\_orientation\_to\_y() Orientate the plot to the y axis.

**Usage**

```
mode_orientation_to_x()
```

```
mode_orientation_to_y()
```

**Value**

ggplot2 theme components.

**Examples**

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

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

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

---

set\_blanket

*Set a style*

---

**Description**

Set a style by setting:

- the mode
- geom defaults
- col\_palettes for discrete, continuous and ordinal scales.

Alternatively, use the weave\_\* functions to only apply a subset of these.

**Usage**

```

set_blanket(
  ...,
  mode = light_mode_r(),
  colour = "#357BA2FF",
  colour_text = "#121B24FF",
  colour_label = colour_text,
  colour_reference_line = colour_text,
  colour_curve = colour_reference_line,
  fill = colour,
  fill_label = colour_label,
  alpha = 1,
  alpha_area = 0.9,
  alpha_bar = 0.9,
  alpha_boxplot = 0.6,
  alpha_crossbar = 0.6,
  alpha_density = 0.6,
  alpha_label = 0.05,
  alpha_polygon = 0.9,
  alpha_rect = 0.9,
  alpha_ribbon = 0.6,
  alpha_smooth = 0.6,
  alpha_tile = 0.9,
  alpha_violin = 0.9,
  alpha_recursive = NULL,
  linewidth = 0.66,
  linewidth_reference_line = 0.33,
  linewidth_curve = linewidth_reference_line,
  size_point = 1.5,
  size_pointrange = 0.2,
  size_sf = 1.5,
  size_text = 11/2.835052,
  size_label = size_text,
  family_text = "",
  family_label = family_text,
  col_palette_d = jumble,
  col_palette_na_d = "#CDC5BFFF",
  col_palette_c = viridisLite::mako(n = 9, direction = -1),
  col_palette_na_c = "#988F88FF",
  col_palette_o = scales::pal_viridis(option = "G", direction = -1),
  col_palette_na_o = "#988F88FF",
  theme = light_mode_r() + mode_orientation_to_x()
)

```

**Arguments**

...	Provided to force user argument naming etc.
mode	A ggplot2 theme (e.g. <code>light_mode_t()</code> or <code>dark_mode_r()</code> ) that anticipates

	gg_* side-effects of removing relevant axis line/ticks and gridlines per the mode_orientation.
colour	A default hex colour for the colour of geoms without a more specific colour_* argument.
colour_text	A default hex colour for the colour of the "text" geom.
colour_label	A default hex colour for the colour of the "label" geom.
colour_reference_line	A default hex colour for the colour of the "hline", "vline" and "abline" geoms.
colour_curve	A default hex colour for the colour of the "curve" geom.
fill	A default hex colour for the fill of geoms without a more specific fill_* argument.
fill_label	A default hex colour for the fill of the "label" geom.
alpha	A default alpha for geoms without a more specific alpha_* argument.
alpha_area	A default alpha for the "area" geom.
alpha_bar	A default alpha for the "bar" geom.
alpha_boxplot	A default alpha for the "boxplot" geom.
alpha_crossbar	A default alpha for the "crossbar" geom.
alpha_density	A default alpha for the "density" geom.
alpha_label	A default alpha for the "label" geom.
alpha_polygon	A default alpha for the "polygon" geom.
alpha_rect	A default alpha for the "rect" geom.
alpha_ribbon	A default alpha for the "ribbon" geom.
alpha_smooth	A default alpha for the "smooth" geom.
alpha_tile	A default alpha for the "tile" geom.
alpha_violin	A default alpha for the "violin" geom.
alpha_recursive	A default alpha applied to all geoms.
linewidth	A default linewidth for geoms.
linewidth_reference_line	A default linewidth for the the "hline", "vline" and "abline" geoms.
linewidth_curve	A default linewidth for the the "curve" geom.
size_point	A default size for the "point" geom.
size_pointrange	A default size for the "pointrange" geom.
size_sf	A default size for the "sf" geom.
size_text	A default size for the "text" geom.
size_label	A default size for the "label" geom.
family_text	A default family for the "text" geom.
family_label	A default family for the "text" geom.

col_palette_d	For a discrete scale, a character vector of hex codes.
col_palette_na_d	For a discrete scale, a hex code.
col_palette_c	For a continuous scale, a character vector of hex codes.
col_palette_na_c	For a continuous scale, a hex code.
col_palette_o	For an ordinal scale, a scales::pal_*() function.
col_palette_na_o	For an ordinal scale, a hex code.
theme	A ggplot2 theme that the gg_* function will add without side-effects. Note, the mode takes precedence, unless mode = NULL.

## Value

A globally set style.

## Examples

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

set_blanket(
  mode = dark_mode_r(),
  colour = orange,
  annotation_colour = darkness[1],
)

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

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

---

weave\_col\_palette\_c    *Set a continuous colour palette*

---

**Description**

Set a continuous colour palette

**Usage**

```
weave_col_palette_c(  
  col_palette_c = viridisLite::mako(n = 9, direction = -1),  
  col_palette_c_na = "#988F88FF",  
  ...  
)
```

**Arguments**

col\_palette\_c    For a continuous scale, a character vector of hex codes. Use NULL for ggplot2 default.

col\_palette\_c\_na    For a continuous scale, a hex code.

...    Dots to support trailing commas etc.

---

weave\_col\_palette\_d    *Set a discrete colour palette*

---

**Description**

Set a discrete colour palette

**Usage**

```
weave_col_palette_d(  
  col_palette_d = jumble,  
  col_palette_d_na = "#CDC5BFFF",  
  ...  
)
```

**Arguments**

col\_palette\_d    For a discrete scale, a character vector of hex codes. Use NULL for ggplot2 default.

col\_palette\_d\_na    For a discrete scale, a hex code.

...    Dots to support trailing commas etc.

---

weave\_col\_palette\_o    *Set an ordinal colour palette*

---

### Description

Set an ordinal colour palette

### Usage

```
weave_col_palette_o(  
  col_palette_o = scales::pal_viridis(option = "G", direction = -1),  
  col_palette_o_na = "#988F88FF"  
)
```

### Arguments

col\_palette\_o    For an ordinal scale, a scales::pal\_\*( ) function. Use NULL for ggplot2 default.

col\_palette\_o\_na    For an ordinal scale, a hex code.

---

weave\_geom\_defaults    *Set a series of geom defaults*

---

### Description

Update all geom defaults.

### Usage

```
weave_geom_defaults(  
  colour = "#357BA2FF",  
  colour_text = "#121B24FF",  
  colour_label = colour_text,  
  colour_reference_line = colour_text,  
  colour_curve = colour_reference_line,  
  fill = colour,  
  fill_label = colour_label,  
  alpha = 1,  
  alpha_area = 0.9,  
  alpha_bar = 0.9,  
  alpha_boxplot = 0.6,  
  alpha_crossbar = 0.6,  
  alpha_density = 0.6,  
  alpha_label = 0.05,
```

```

alpha_polygon = 0.9,
alpha_rect = 0.9,
alpha_ribbon = 0.6,
alpha_smooth = 0.6,
alpha_tile = 0.9,
alpha_violin = 0.9,
alpha_recursive = NULL,
linewidth = 0.66,
linewidth_reference_line = 0.33,
linewidth_curve = linewidth_reference_line,
size_point = 1.5,
size_pointrange = 0.2,
size_sf = 1.5,
size_text = 11/2.835052,
size_label = size_text,
family_text = "",
family_label = family_text
)

```

### Arguments

colour	A default hex colour for the colour of geoms without a more specific colour_* argument.
colour_text	A default hex colour for the colour of the "text" geom.
colour_label	A default hex colour for the colour of the "label" geom.
colour_reference_line	A default hex colour for the colour of the "hline", "vline" and "abline" geoms.
colour_curve	A default hex colour for the colour of the "curve" geom.
fill	A default hex colour for the fill of geoms without a more specific fill_* argument.
fill_label	A default hex colour for the fill of the "label" geom.
alpha	A default alpha for geoms without a more specific alpha_* argument.
alpha_area	A default alpha for the "area" geom.
alpha_bar	A default alpha for the "bar" geom.
alpha_boxplot	A default alpha for the "boxplot" geom.
alpha_crossbar	A default alpha for the "crossbar" geom.
alpha_density	A default alpha for the "density" geom.
alpha_label	A default alpha for the "label" geom.
alpha_polygon	A default alpha for the "polygon" geom.
alpha_rect	A default alpha for the "rect" geom.
alpha_ribbon	A default alpha for the "ribbon" geom.
alpha_smooth	A default alpha for the "smooth" geom.
alpha_tile	A default alpha for the "tile" geom.

<code>alpha_violin</code>	A default alpha for the "violin" geom.
<code>alpha_recursive</code>	A default alpha applied to all geoms.
<code>linewidth</code>	A default linewidth for geoms.
<code>linewidth_reference_line</code>	A default linewidth for the the "hline", "vline" and "abline" geoms.
<code>linewidth_curve</code>	A default linewidth for the the "curve" geom.
<code>size_point</code>	A default size for the "point" geom.
<code>size_pointrange</code>	A default size for the "pointrange" geom.
<code>size_sf</code>	A default size for the "sf" geom.
<code>size_text</code>	A default size for the "text" geom.
<code>size_label</code>	A default size for the "label" geom.
<code>family_text</code>	A default family for the "text" geom.
<code>family_label</code>	A default family for the "text" geom.

---

`weave_mode`

*Set a mode*

---

### Description

Set a mode for the mode argument in gg\_\* functions.

### Usage

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

### Arguments

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

---

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

---

**Description**

Set a theme to be +-ed on unmodified to gg\_\* functions. Note, the mode takes precedence, unless mode = NULL.

**Usage**

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

**Arguments**

theme	A ggplot2 theme that the gg_* function will add without side-effects. Use NULL for ggplot2 default.
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