

Package ‘ggblanket’

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Title Simplify 'ggplot2' Visualisation

Version 7.0.0

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

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

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

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aes_contrast	<i>A colour aesthetic that automatically contrasts with fill.</i>
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Description

A colour aesthetic for annotation that automatically contrasts with fill. Can be spliced into `ggplot2::aes` with `rlang::!!!`.

Usage

```
aes_contrast(contrast_pal = lightness[2:3])
```

Arguments

`contrast_pal` A vector of a dark colour and then a light colour (e.g. `greyness[2:3]` or `darkness[1:2]`). Defaults to `lightness[2:3]`.

Value

An aesthetic

Examples

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

set_blanket()
```

```
penguins |>
  count(species, sex) |>
  gg_col(
    x = sex,
    y = n,
    col = species,
    position = position_dodge2(preserve = "single"),
    width = 0.75,
    x_labels = \(x) str_to_sentence(x),
  ) +
  geom_text(
    mapping = aes(label = n, !!!aes_contrast()),
    position = position_dodge2(width = 0.75, preserve = "single"),
    vjust = 1.33,
    show.legend = FALSE,
  )

penguins |>
  count(species, sex) |>
  gg_col(
    x = n,
    y = sex,
    col = species,
    position = position_dodge2(preserve = "single"),
    width = 0.75,
    y_labels = \(x) str_to_sentence(x),
    mode = dark_mode_r(),
  ) +
  geom_text(
    mapping = aes(label = n, !!!aes_contrast(darkness[1:2])),
    position = position_dodge2(width = 0.75, preserve = "single"),
    hjust = 1.25,
    show.legend = FALSE,
  )
)
```

blue

A blue colour

Description

A blue colour derived from `viridisLite::mako(9)[5]`

Usage

```
blue
```

Format

An object of class character of length 1.

Value

A character vector.

Examples

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

darkness	<i>The dark_mode_* theme colours</i>
----------	--------------------------------------

Description

A vector of colours used in the dark_mode_* themes.

Usage

```
darkness
```

Format

An object of class character of length 3.

Value

A character vector.

Examples

```
scales::show_col(darkness)
```

dark_mode_b	<i>Dark mode theme with bottom legend</i>
-------------	-------------------------------------------

Description

Dark mode theme for a ggplot visualisation with bottom legend. It uses the colours from darkness.

Usage

```
dark_mode_b(base_size = 11, base_family = "")
```

Arguments

`base_size` The base size of the text. Defaults to 11.

`base_family` The base family of the text. Defaults to "".

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_b()
  )
```

dark_mode_n

Dark mode theme with no legend

Description

Dark mode theme for a ggplot visualisation with no legend. It uses the colours from darkness.

Usage

```
dark_mode_n(base_size = 11, base_family = "")
```

Arguments

base_size The base size of the text. Defaults to 11.
base_family The base family of the text. Defaults to "".

Value

A ggplot theme.

Examples

```
library(palmerpenguins)
library(ggplot2)

set_blanket()

penguins |>
  gg_jitter(
    x = species,
```

```
y = body_mass_g,  
col = species,  
mode = dark_mode_n()  
)
```

`dark_mode_r`*Dark mode theme with right legend*

Description

Dark mode theme for a ggplot visualisation with legend at right. It uses the colours from darkness.

Usage

```
dark_mode_r(base_size = 11, base_family = "")
```

Arguments

<code>base_size</code>	The base size of the text. Defaults to 11.
<code>base_family</code>	The base family of the text. Defaults to "".

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()  
  )
```

dark_mode_t	<i>Dark mode theme with top legend</i>
-------------	----------------------------------------

Description

Dark mode theme for a ggplot visualisation with top legend. It uses the colours from darkness.

Usage

```
dark_mode_t(base_size = 11, base_family = "")
```

Arguments

base_size	The base size of the text. Defaults to 11.
base_family	The base family of the text. Defaults to "".

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_t()
  )
```

gg_area	<i>Area ggplot</i>
---------	--------------------

Description

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

Usage

```
gg_area(  
  data = NULL,  
  ...,  
  stat = "align",  
  position = "stack",  
  coord = ggplot2::coord_cartesian(clip = "off"),  
  mode = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_expand_limits = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_oob = scales::oob_keep,  
  x_position = "bottom",  
  x_title = NULL,  
  x_transform = NULL,  
  y_breaks = NULL,  
  y_expand = NULL,  
  y_expand_limits = NULL,  
  y_labels = NULL,  
  y_limits = NULL,  
  y_oob = scales::oob_keep,  
  y_position = "left",  
  y_title = NULL,  
  y_transform = NULL,  
  col_breaks = NULL,  
  col_expand_limits = NULL,  
  col_labels = NULL,  
  col_legend_ncol = NULL,  
)
```

```

col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_oob = scales::oob_keep,
col_pal = NULL,
col_pal_na = "darkgrey",
col_rescale = scales::rescale(),
col_steps = FALSE,
col_title = NULL,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_labels = NULL,
facet_labels_position = "top",
facet_labels_switch = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
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.

<code>x_breaks, y_breaks, col_breaks</code>	A <code>scales::breaks_*</code> function (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits, y_limits, col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob, y_oob, col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title</code>	Axis title string. Use + <code>ggplot2::labs(... = NULL)</code> for no title.
<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_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

gg_bar

Bar ggplot

Description

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

Usage

```
gg_bar(  
  data = NULL,  
  ...,  
  stat = "count",  
  position = "stack",  
  coord = ggplot2::coord_cartesian(clip = "off"),  
  mode = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_expand_limits = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_oob = scales::oob_keep,  
  x_position = "bottom",  
  x_title = NULL,  
  x_transform = NULL,  
  y_breaks = NULL,  
  y_expand = NULL,  
  y_expand_limits = NULL,  
  y_labels = NULL,  
  y_limits = NULL,  
  y_oob = scales::oob_keep,  
  y_position = "left",  
  y_title = NULL,  
  y_transform = NULL,  
  col_breaks = NULL,  
  col_expand_limits = NULL,  
  col_labels = NULL,  
  col_legend_ncol = NULL,  
)
```

```

col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_oob = scales::oob_keep,
col_pal = NULL,
col_pal_na = "darkgrey",
col_rescale = scales::rescale(),
col_steps = FALSE,
col_title = NULL,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_labels = NULL,
facet_labels_position = "top",
facet_labels_switch = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
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.

<code>x_breaks, y_breaks, col_breaks</code>	A <code>scales::breaks_*</code> function (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits, y_limits, col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob, y_oob, col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title</code>	Axis title string. Use + <code>ggplot2::labs(... = NULL)</code> for no title.
<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_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  mutate(across(sex, \(x) stringr::str_to_sentence(x))) |>
  gg_bar(
    y = species,
    col = sex,
    position = position_dodge(preserve = "single"),
    width = 0.75,
  )
```

`gg_bin_2d`*Bin_2d ggplot*

Description

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

Usage

```
gg_bin_2d(  
  data = NULL,  
  ...,  
  stat = "bin2d",  
  position = "identity",  
  coord = ggplot2::coord_cartesian(clip = "off"),  
  mode = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_expand_limits = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_oob = scales::oob_keep,  
  x_position = "bottom",  
  x_title = NULL,  
  x_transform = NULL,  
  y_breaks = NULL,  
  y_expand = NULL,  
  y_expand_limits = NULL,  
  y_labels = NULL,  
)
```

```

y_limits = NULL,
y_oob = scales::oob_keep,
y_position = "left",
y_title = NULL,
y_transform = NULL,
col_breaks = NULL,
col_expand_limits = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_oob = scales::oob_keep,
col_pal = NULL,
col_pal_na = "darkgrey",
col_rescale = scales::rescale(),
col_steps = FALSE,
col_title = NULL,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_labels = NULL,
facet_labels_position = "top",
facet_labels_switch = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will re-

	moves selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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_pretty()</code>), or a vector of breaks.
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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
x_limits, y_limits, col_limits	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
x_oob, y_oob, col_oob	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title	Axis title string. Use + <code>ggplot2::labs(... = NULL)</code> for no title.
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_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_pal	Colours to use. A character vector of hex codes (or names).
col_pal_na	Colour to use for NA values. A character vector of a hex code (or name).
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".
facet_axis_labels	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_labels_position	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
facet_labels_switch	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
facet_ncol, facet_nrow	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
facet_scales	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
facet_space	When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
titles_to_case	A function to format unspecified titles_to_case. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

`gg_blanket`*Blanket ggplot*

Description

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

Usage

```
gg_blanket(  
  data = NULL,  
  ...,  
  geom = "blank",  
  stat = "identity",  
  position = "identity",  
  coord = NULL,  
  mode = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_expand_limits = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_oob = scales::oob_keep,  
  x_position = "bottom",  
  x_title = NULL,  
  x_transform = NULL,  
  y_breaks = NULL,
```

```

y_expand = NULL,
y_expand_limits = NULL,
y_labels = NULL,
y_limits = NULL,
y_oob = scales::oob_keep,
y_position = "left",
y_title = NULL,
y_transform = NULL,
col_breaks = NULL,
col_expand_limits = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_oob = scales::oob_keep,
col_pal = NULL,
col_pal_na = "darkgrey",
col_rescale = scales::rescale(),
col_steps = FALSE,
col_title = NULL,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_labels = NULL,
facet_labels_position = "top",
facet_labels_switch = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_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 <code>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
<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_pretty()</code>), or a vector of breaks.
<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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits</code> , <code>y_limits</code> , <code>col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob</code> , <code>y_oob</code> , <code>col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title</code> , <code>y_title</code> , <code>col_title</code>	Axis title string. Use + <code>ggplot2::labs(... = NULL)</code> for no title.
<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_legend_ncol</code> , <code>col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

<code>col_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<code>facet_layout</code>	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".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>titles_to_case</code>	A function to format unspecified titles_to_case. 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) |>
  mutate(across(sex, \(x) stringr::str_to_sentence(x))) |>
  gg_blanket(
    geom = "violin",
    stat = "ydensity",
    position = "dodge",
    x = sex,
    y = body_mass_g,
    col = sex,
    facet = species,
    mode = grey_mode_b(),
  )
```

gg_boxplot

Boxplot ggplot

Description

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

Usage

```
gg_boxplot(
  data = NULL,
  ...,
  stat = "boxplot",
  position = "dodge2",
  coord = ggplot2::coord_cartesian(clip = "off"),
  mode = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
```

```
mapping = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_expand_limits = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_oob = scales::oob_keep,  
x_position = "bottom",  
x_title = NULL,  
x_transform = NULL,  
y_breaks = NULL,  
y_expand = NULL,  
y_expand_limits = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_oob = scales::oob_keep,  
y_position = "left",  
y_title = NULL,  
y_transform = NULL,  
col_breaks = NULL,  
col_expand_limits = NULL,  
col_labels = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_oob = scales::oob_keep,  
col_pal = NULL,  
col_pal_na = "darkgrey",  
col_rescale = scales::rescale(),  
col_steps = FALSE,  
col_title = NULL,  
col_transform = NULL,  
facet_axes = NULL,  
facet_axis_labels = "margins",  
facet_labels = NULL,  
facet_labels_position = "top",  
facet_labels_switch = NULL,  
facet_layout = NULL,  
facet_ncol = NULL,  
facet_nrow = NULL,  
facet_scales = "fixed",  
facet_space = "fixed",  
title = NULL,  
subtitle = NULL,  
caption = NULL,  
titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
<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_pretty()</code>), or a vector of breaks.
<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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits</code> , <code>y_limits</code> , <code>col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob</code> , <code>y_oob</code> , <code>col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title</code> , <code>y_title</code> , <code>col_title</code>	Axis title string. Use + <code>ggplot2::labs(... = NULL)</code> for no title.

<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_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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> .
<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_labels_position</code>	When the facet layout is <code>"wrap"</code> , the position of the facet labels. Either <code>"top"</code> , <code>"right"</code> , <code>"bottom"</code> or <code>"left"</code> .
<code>facet_labels_switch</code>	When the facet layout is <code>"grid"</code> , whether to switch the facet labels to the opposite side of the plot. Either <code>"x"</code> , <code>"y"</code> or <code>"both"</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 layout is <code>"grid"</code> and facet scales are not <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>titles_to_case</code>	A function to format unspecified <code>titles_to_case</code> . 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) |>
  mutate(across(sex, \(x) stringr::str_to_sentence(x))) |>
  gg_boxplot(
    x = flipper_length_mm,
    y = sex,
    col = species,
    mode = light_mode_b(),
  )
```

gg_col

Col ggplot

Description

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

Usage

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

```
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_expand_limits = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_oob = scales::oob_keep,  
x_position = "bottom",  
x_title = NULL,  
x_transform = NULL,  
y_breaks = NULL,  
y_expand = NULL,  
y_expand_limits = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_oob = scales::oob_keep,  
y_position = "left",  
y_title = NULL,  
y_transform = NULL,  
col_breaks = NULL,  
col_expand_limits = NULL,  
col_labels = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_oob = scales::oob_keep,  
col_pal = NULL,  
col_pal_na = "darkgrey",  
col_rescale = scales::rescale(),  
col_steps = FALSE,  
col_title = NULL,  
col_transform = NULL,  
facet_axes = NULL,  
facet_axis_labels = "margins",  
facet_labels = NULL,  
facet_labels_position = "top",  
facet_labels_switch = NULL,  
facet_layout = NULL,  
facet_ncol = NULL,  
facet_nrow = NULL,  
facet_scales = "fixed",  
facet_space = "fixed",  
title = NULL,  
subtitle = NULL,
```

```

caption = NULL,
titles_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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks	A scales::breaks_* function (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand, y_expand	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).
x_expand_limits, y_expand_limits, col_expand_limits	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_labels, y_labels, col_labels, facet_labels	A function that takes the breaks as inputs (e.g. \(\x\) stringr::str_to_sentence(x) or scales::label_comma()), or a vector of labels (Note this must be named for facet_labels).
x_limits, y_limits, col_limits	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.
x_oob, y_oob, col_oob	For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.

<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_title, y_title, col_title</code>	Axis title string. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<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_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>titles_to_case</code>	A function to format unspecified <code>titles_to_case</code> . 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) |>
  mutate(across(sex, \(x) stringr::str_to_sentence(x))) |>
  group_by(sex, species) |>
  summarise(across(flipper_length_mm, \(x) mean(x, na.rm = TRUE))) |>
  gg_col(
    x = flipper_length_mm,
    y = species,
    col = sex,
    position = position_dodge(preserve = "single"),
    width = 0.75,
  )
```

gg_contour

Contour ggplot

Description

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

Usage

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

```
yend = NULL,  
z = NULL,  
col = NULL,  
facet = NULL,  
facet2 = NULL,  
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_expand_limits = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_oob = scales::oob_keep,  
x_position = "bottom",  
x_title = NULL,  
x_transform = NULL,  
y_breaks = NULL,  
y_expand = NULL,  
y_expand_limits = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_oob = scales::oob_keep,  
y_position = "left",  
y_title = NULL,  
y_transform = NULL,  
col_breaks = NULL,  
col_expand_limits = NULL,  
col_labels = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_oob = scales::oob_keep,  
col_pal = NULL,  
col_pal_na = "darkgrey",  
col_rescale = scales::rescale(),  
col_steps = FALSE,  
col_title = NULL,  
col_transform = NULL,  
facet_axes = NULL,  
facet_axis_labels = "margins",  
facet_labels = NULL,  
facet_labels_position = "top",  
facet_labels_switch = NULL,
```

```

facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
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_pretty()</code>), or a vector of breaks.
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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).

<code>x_limits, y_limits, col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob, y_oob, col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title</code>	Axis title string. Use <code>+ggplot2::labs(... = NULL)</code> for no title.
<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_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
titles_to_case	A function to format unspecified titles_to_case. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

gg_contour_filled *Contour_filled ggplot*

Description

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

Usage

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

```
xend = NULL,  
y = NULL,  
ymin = NULL,  
ymax = NULL,  
yend = NULL,  
z = NULL,  
col = NULL,  
facet = NULL,  
facet2 = NULL,  
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_expand_limits = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_oob = scales::oob_keep,  
x_position = "bottom",  
x_title = NULL,  
x_transform = NULL,  
y_breaks = NULL,  
y_expand = NULL,  
y_expand_limits = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_oob = scales::oob_keep,  
y_position = "left",  
y_title = NULL,  
y_transform = NULL,  
col_breaks = NULL,  
col_expand_limits = NULL,  
col_labels = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_oob = scales::oob_keep,  
col_pal = NULL,  
col_pal_na = "darkgrey",  
col_rescale = scales::rescale(),  
col_steps = FALSE,  
col_title = NULL,  
col_transform = NULL,  
facet_axes = NULL,
```

```

facet_axis_labels = "margins",
facet_labels = NULL,
facet_labels_position = "top",
facet_labels_switch = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
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_pretty()</code>), or a vector of breaks.
x_expand, y_expand	Padding to the limits with the <code>ggplot2::expansion()</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
x_expand_limits, y_expand_limits, col_expand_limits	For a continuous variable, any values that the limits should encompass (e.g. <code>0</code>). For a discrete scale, manipulate the data instead with <code>forcats::fct_expand</code> .

<code>x_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits, y_limits, col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob, y_oob, col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title</code>	Axis title string. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<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_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
titles_to_case	A function to format unspecified titles_to_case. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

 gg_crossbar

Crossbar ggplot

Description

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

Usage

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

```
mode = NULL,  
x = NULL,  
xmin = NULL,  
xmax = NULL,  
xend = NULL,  
y = NULL,  
ymin = NULL,  
ymax = NULL,  
yend = NULL,  
z = NULL,  
col = NULL,  
facet = NULL,  
facet2 = NULL,  
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_expand_limits = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_oob = scales::oob_keep,  
x_position = "bottom",  
x_title = NULL,  
x_transform = NULL,  
y_breaks = NULL,  
y_expand = NULL,  
y_expand_limits = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_oob = scales::oob_keep,  
y_position = "left",  
y_title = NULL,  
y_transform = NULL,  
col_breaks = NULL,  
col_expand_limits = NULL,  
col_labels = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_oob = scales::oob_keep,  
col_pal = NULL,  
col_pal_na = "darkgrey",  
col_rescale = scales::rescale(),
```

```

col_steps = FALSE,
col_title = NULL,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_labels = NULL,
facet_labels_position = "top",
facet_labels_switch = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks	A scales::breaks_* function (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand, y_expand	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).

<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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits, y_limits, col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob, y_oob, col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title</code>	Axis title string. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<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_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
titles_to_case	A function to format unspecified titles_to_case. 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_title = "Treatment",
    y_title = "Response",
  )
```

`gg_density`*Density ggplot*

Description

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

Usage

```
gg_density(  
  data = NULL,  
  ...,  
  stat = "density",  
  position = "identity",  
  coord = ggplot2::coord_cartesian(clip = "off"),  
  mode = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_expand_limits = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_oob = scales::oob_keep,  
  x_position = "bottom",  
  x_title = NULL,  
  x_transform = NULL,  
  y_breaks = NULL,  
  y_expand = NULL,  
  y_expand_limits = NULL,  
  y_labels = NULL,  
)
```

```

y_limits = NULL,
y_oob = scales::oob_keep,
y_position = "left",
y_title = NULL,
y_transform = NULL,
col_breaks = NULL,
col_expand_limits = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_oob = scales::oob_keep,
col_pal = NULL,
col_pal_na = "darkgrey",
col_rescale = scales::rescale(),
col_steps = FALSE,
col_title = NULL,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_labels = NULL,
facet_labels_position = "top",
facet_labels_switch = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will re-

	moves selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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_pretty()</code>), or a vector of breaks.
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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
x_limits, y_limits, col_limits	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
x_oob, y_oob, col_oob	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title	Axis title string. Use + <code>ggplot2::labs(... = NULL)</code> for no title.
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_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_pal	Colours to use. A character vector of hex codes (or names).
col_pal_na	Colour to use for NA values. A character vector of a hex code (or name).
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".
facet_axis_labels	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_labels_position	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
facet_labels_switch	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
facet_ncol, facet_nrow	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
facet_scales	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
facet_space	When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
titles_to_case	A function to format unspecified titles_to_case. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  mutate(across(sex, \(x) stringr::str_to_sentence(x))) |>
  tidyr::drop_na(sex) |>
  gg_density(
    x = flipper_length_mm,
    col = species,
    mode = light_mode_t(),
```

)

`gg_density_2d`*Density_2d ggplot*

Description

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

Usage

```
gg_density_2d(  
  data = NULL,  
  ...,  
  stat = "density_2d",  
  position = "identity",  
  coord = ggplot2::coord_cartesian(clip = "off"),  
  mode = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_expand_limits = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_oob = scales::oob_keep,  
  x_position = "bottom",  
  x_title = NULL,  
  x_transform = NULL,  
  y_breaks = NULL,
```

```

y_expand = NULL,
y_expand_limits = NULL,
y_labels = NULL,
y_limits = NULL,
y_oob = scales::oob_keep,
y_position = "left",
y_title = NULL,
y_transform = NULL,
col_breaks = NULL,
col_expand_limits = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_oob = scales::oob_keep,
col_pal = NULL,
col_pal_na = "darkgrey",
col_rescale = scales::rescale(),
col_steps = FALSE,
col_title = NULL,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_labels = NULL,
facet_labels_position = "top",
facet_labels_switch = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_to_case = snakecase::to_sentence_case
)

```

Arguments

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

coord	A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. <code>ggplot2::coord_cartesian()</code>).
mode	A *_mode_* theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the gg_* function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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 scales::breaks_* function (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
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_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_comma()</code>), or a vector of labels (Note this must be named for facet_labels).
x_limits, y_limits, col_limits	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
x_oob, y_oob, col_oob	For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</code> .
x_position, y_position	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a *_mode_* theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
x_title, y_title, col_title	Axis title string. Use + <code>ggplot2::labs(... = NULL)</code> for no title.
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_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_pal	Colours to use. A character vector of hex codes (or names).

<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>titles_to_case</code>	A function to format unspecified <code>titles_to_case</code> . 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,  
)
```

gg_density_2d_filled *Density_2d_filled* ggplot

Description

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

Usage

```
gg_density_2d_filled(  
  data = NULL,  
  ...,  
  stat = "density_2d_filled",  
  position = "identity",  
  coord = ggplot2::coord_cartesian(clip = "off"),  
  mode = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_expand_limits = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_oob = scales::oob_keep,  
  x_position = "bottom",
```

```

x_title = NULL,
x_transform = NULL,
y_breaks = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_labels = NULL,
y_limits = NULL,
y_oob = scales::oob_keep,
y_position = "left",
y_title = NULL,
y_transform = NULL,
col_breaks = NULL,
col_expand_limits = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_oob = scales::oob_keep,
col_pal = NULL,
col_pal_na = "darkgrey",
col_rescale = scales::rescale(),
col_steps = FALSE,
col_title = NULL,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_labels = NULL,
facet_labels_position = "top",
facet_labels_switch = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_to_case = snakecase::to_sentence_case
)

```

Arguments

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

	class object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
coord	A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).
mode	A *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks	A scales::breaks_* function (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand, y_expand	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).
x_expand_limits, y_expand_limits, col_expand_limits	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_labels, y_labels, col_labels, facet_labels	A function that takes the breaks as inputs (e.g. \(\x\) stringr::str_to_sentence(x) or scales::label_comma()), or a vector of labels (Note this must be named for facet_labels).
x_limits, y_limits, col_limits	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.
x_oob, y_oob, col_oob	For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.
x_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_title, y_title, col_title	Axis title string. Use + ggplot2::labs(... = NULL) for no title.
x_transform, y_transform, col_transform	For a continuous scale, a transformation object (e.g. scales::transform_log10()) or character string of this minus the transform_ prefix (e.g. "log10").
col_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<code>facet_layout</code>	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".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>titles_to_case</code>	A function to format unspecified titles_to_case. Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

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

set_blanket()
```

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

gg_errorbar

Errorbar ggplot

Description

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

Usage

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

```

x_oob = scales::oob_keep,
x_position = "bottom",
x_title = NULL,
x_transform = NULL,
y_breaks = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_labels = NULL,
y_limits = NULL,
y_oob = scales::oob_keep,
y_position = "left",
y_title = NULL,
y_transform = NULL,
col_breaks = NULL,
col_expand_limits = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_oob = scales::oob_keep,
col_pal = NULL,
col_pal_na = "darkgrey",
col_rescale = scales::rescale(),
col_steps = FALSE,
col_title = NULL,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_labels = NULL,
facet_labels_position = "top",
facet_labels_switch = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_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").
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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks	A scales::breaks_* function (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand, y_expand	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).
x_expand_limits, y_expand_limits, col_expand_limits	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_labels, y_labels, col_labels, facet_labels	A function that takes the breaks as inputs (e.g. \(\x\) stringr::str_to_sentence(x) or scales::label_comma()), or a vector of labels (Note this must be named for facet_labels).
x_limits, y_limits, col_limits	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.
x_oob, y_oob, col_oob	For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.
x_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_title, y_title, col_title	Axis title string. Use + ggplot2::labs(... = NULL) for no title.
x_transform, y_transform, col_transform	For a continuous scale, a transformation object (e.g. scales::transform_log10()) or character string of this minus the transform_ prefix (e.g. "log10").
col_legend_ncol, col_legend_nrow	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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<code>facet_layout</code>	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".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>titles_to_case</code>	A function to format unspecified titles_to_case. 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_title = "Treatment",
  y_title = "Response",
)
```

gg_freqpoly

Freqpoly ggplot

Description

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

Usage

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

```
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_expand_limits = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_oob = scales::oob_keep,  
x_position = "bottom",  
x_title = NULL,  
x_transform = NULL,  
y_breaks = NULL,  
y_expand = NULL,  
y_expand_limits = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_oob = scales::oob_keep,  
y_position = "left",  
y_title = NULL,  
y_transform = NULL,  
col_breaks = NULL,  
col_expand_limits = NULL,  
col_labels = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_oob = scales::oob_keep,  
col_pal = NULL,  
col_pal_na = "darkgrey",  
col_rescale = scales::rescale(),  
col_steps = FALSE,  
col_title = NULL,  
col_transform = NULL,  
facet_axes = NULL,  
facet_axis_labels = "margins",  
facet_labels = NULL,  
facet_labels_position = "top",  
facet_labels_switch = NULL,  
facet_layout = NULL,  
facet_ncol = NULL,  
facet_nrow = NULL,  
facet_scales = "fixed",  
facet_space = "fixed",
```

```

  title = NULL,
  subtitle = NULL,
  caption = NULL,
  titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
<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_pretty()</code>), or a vector of breaks.
<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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits</code> , <code>y_limits</code> , <code>col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob</code> , <code>y_oob</code> , <code>col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title</code>	Axis title string. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<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_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>titles_to_case</code>	A function to format unspecified <code>titles_to_case</code> . Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  mutate(across(sex, \(x) stringr::str_to_sentence(x))) |>
  gg_freqpoly(
    x = flipper_length_mm,
    col = sex,
    col_title = "",
    mode = light_mode_t(),
  )
```

gg_function

Function ggplot

Description

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

Usage

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

```
facet2 = NULL,  
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_expand_limits = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_oob = scales::oob_keep,  
x_position = "bottom",  
x_title = NULL,  
x_transform = NULL,  
y_breaks = NULL,  
y_expand = NULL,  
y_expand_limits = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_oob = scales::oob_keep,  
y_position = "left",  
y_title = NULL,  
y_transform = NULL,  
col_breaks = NULL,  
col_expand_limits = NULL,  
col_labels = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_oob = scales::oob_keep,  
col_pal = NULL,  
col_pal_na = "darkgrey",  
col_rescale = scales::rescale(),  
col_steps = FALSE,  
col_title = NULL,  
col_transform = NULL,  
facet_axes = NULL,  
facet_axis_labels = "margins",  
facet_labels = NULL,  
facet_labels_position = "top",  
facet_labels_switch = NULL,  
facet_layout = NULL,  
facet_ncol = NULL,  
facet_nrow = NULL,  
facet_scales = "fixed",
```

```

facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
<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_pretty()</code>), or a vector of breaks.
<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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits</code> , <code>y_limits</code> , <code>col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob</code> , <code>y_oob</code> , <code>col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title</code>	Axis title string. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<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_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>titles_to_case</code>	A function to format unspecified <code>titles_to_case</code> . 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_limits = qnorm(p = c(0.005, 0.995), mean = 0, sd = 5),
  y_expand_limits = 0,
)
```

gg_hex

Hex ggplot

Description

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

Usage

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

```
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_labels = NULL,
x_limits = NULL,
x_oob = scales::oob_keep,
x_position = "bottom",
x_title = NULL,
x_transform = NULL,
y_breaks = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_labels = NULL,
y_limits = NULL,
y_oob = scales::oob_keep,
y_position = "left",
y_title = NULL,
y_transform = NULL,
col_breaks = NULL,
col_expand_limits = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_oob = scales::oob_keep,
col_pal = NULL,
col_pal_na = "darkgrey",
col_rescale = scales::rescale(),
col_steps = FALSE,
col_title = NULL,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_labels = NULL,
facet_labels_position = "top",
facet_labels_switch = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
```

```

  titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
<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_pretty()</code>), or a vector of breaks.
<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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits</code> , <code>y_limits</code> , <code>col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob</code> , <code>y_oob</code> , <code>col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title</code>	Axis title string. Use + <code>ggplot2::labs(... = NULL)</code> for no title.
<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_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>titles_to_case</code>	A function to format unspecified <code>titles_to_case</code> . 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,
    coord = coord_cartesian(clip = "on"),
    y_limits = c(0, 20000),
  )
```

gg_histogram

Histogram ggplot

Description

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

Usage

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

```
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_expand_limits = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_oob = scales::oob_keep,  
x_position = "bottom",  
x_title = NULL,  
x_transform = NULL,  
y_breaks = NULL,  
y_expand = NULL,  
y_expand_limits = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_oob = scales::oob_keep,  
y_position = "left",  
y_title = NULL,  
y_transform = NULL,  
col_breaks = NULL,  
col_expand_limits = NULL,  
col_labels = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_oob = scales::oob_keep,  
col_pal = NULL,  
col_pal_na = "darkgrey",  
col_rescale = scales::rescale(),  
col_steps = FALSE,  
col_title = NULL,  
col_transform = NULL,  
facet_axes = NULL,  
facet_axis_labels = "margins",  
facet_labels = NULL,  
facet_labels_position = "top",  
facet_labels_switch = NULL,  
facet_layout = NULL,  
facet_ncol = NULL,  
facet_nrow = NULL,  
facet_scales = "fixed",  
facet_space = "fixed",  
title = NULL,  
subtitle = NULL,  
caption = NULL,  
titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
<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_pretty()</code>), or a vector of breaks.
<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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits</code> , <code>y_limits</code> , <code>col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob</code> , <code>y_oob</code> , <code>col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title</code> , <code>y_title</code> , <code>col_title</code>	Axis title string. Use + <code>ggplot2::labs(... = NULL)</code> for no title.
<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_legend_ncol</code> , <code>col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>titles_to_case</code>	A function to format unspecified <code>titles_to_case</code> . Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  mutate(across(sex, \(x) stringr::str_to_sentence(x))) |>
  gg_histogram(
    x = flipper_length_mm,
    col = sex,
    facet = species,
    bins = 50,
    mode = light_mode_b(),
  )
```

gg_jitter

Jitter ggplot

Description

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

Usage

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

```
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_expand_limits = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_oob = scales::oob_keep,  
x_position = "bottom",  
x_title = NULL,  
x_transform = NULL,  
y_breaks = NULL,  
y_expand = NULL,  
y_expand_limits = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_oob = scales::oob_keep,  
y_position = "left",  
y_title = NULL,  
y_transform = NULL,  
col_breaks = NULL,  
col_expand_limits = NULL,  
col_labels = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_oob = scales::oob_keep,  
col_pal = NULL,  
col_pal_na = "darkgrey",  
col_rescale = scales::rescale(),  
col_steps = FALSE,  
col_title = NULL,  
col_transform = NULL,  
facet_axes = NULL,  
facet_axis_labels = "margins",  
facet_labels = NULL,  
facet_labels_position = "top",  
facet_labels_switch = NULL,  
facet_layout = NULL,  
facet_ncol = NULL,  
facet_nrow = NULL,  
facet_scales = "fixed",  
facet_space = "fixed",  
title = NULL,  
subtitle = NULL,
```

```

caption = NULL,
titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
<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_pretty()</code>), or a vector of breaks.
<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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits</code> , <code>y_limits</code> , <code>col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob</code> , <code>y_oob</code> , <code>col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title</code>	Axis title string. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<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_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>titles_to_case</code>	A function to format unspecified <code>titles_to_case</code> . 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,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
```

```
z = NULL,  
col = NULL,  
facet = NULL,  
facet2 = NULL,  
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_expand_limits = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_oob = scales::oob_keep,  
x_position = "bottom",  
x_title = NULL,  
x_transform = NULL,  
y_breaks = NULL,  
y_expand = NULL,  
y_expand_limits = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_oob = scales::oob_keep,  
y_position = "left",  
y_title = NULL,  
y_transform = NULL,  
col_breaks = NULL,  
col_expand_limits = NULL,  
col_labels = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_oob = scales::oob_keep,  
col_pal = NULL,  
col_pal_na = "darkgrey",  
col_rescale = scales::rescale(),  
col_steps = FALSE,  
col_title = NULL,  
col_transform = NULL,  
facet_axes = NULL,  
facet_axis_labels = "margins",  
facet_labels = NULL,  
facet_labels_position = "top",  
facet_labels_switch = NULL,  
facet_layout = NULL,
```

```

facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
<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_pretty()</code>), or a vector of breaks.
<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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits</code> , <code>y_limits</code> , <code>col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .

x_oob, y_oob, col_oob	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title	Axis title string. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
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_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_pal	Colours to use. A character vector of hex codes (or names).
col_pal_na	Colour to use for NA values. A character vector of a hex code (or name).
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".
facet_axis_labels	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_labels_position	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
facet_labels_switch	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title Title string.
subtitle Subtitle string.
caption Caption title string.
titles_to_case A function to format unspecified titles_to_case. 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_title = "Miles per gallon",
    col_pal = c(orange, "white", teal),
  )

```

gg_line

Line ggplot

Description

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

Usage

```

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

```

```
xmin = NULL,  
xmax = NULL,  
xend = NULL,  
y = NULL,  
ymin = NULL,  
ymax = NULL,  
yend = NULL,  
z = NULL,  
col = NULL,  
facet = NULL,  
facet2 = NULL,  
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_expand_limits = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_oob = scales::oob_keep,  
x_position = "bottom",  
x_title = NULL,  
x_transform = NULL,  
y_breaks = NULL,  
y_expand = NULL,  
y_expand_limits = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_oob = scales::oob_keep,  
y_position = "left",  
y_title = NULL,  
y_transform = NULL,  
col_breaks = NULL,  
col_expand_limits = NULL,  
col_labels = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_oob = scales::oob_keep,  
col_pal = NULL,  
col_pal_na = "darkgrey",  
col_rescale = scales::rescale(),  
col_steps = FALSE,  
col_title = NULL,
```

```

col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_labels = NULL,
facet_labels_position = "top",
facet_labels_switch = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
<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_pretty()</code>), or a vector of breaks.
<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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits, y_limits, col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob, y_oob, col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title</code>	Axis title string. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<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_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
titles_to_case	A function to format unspecified titles_to_case. 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_title = "Unemployment",
  )
```

gg_linerange

Linerange ggplot

Description

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

Usage

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

```
mode = NULL,  
x = NULL,  
xmin = NULL,  
xmax = NULL,  
xend = NULL,  
y = NULL,  
ymin = NULL,  
ymax = NULL,  
yend = NULL,  
z = NULL,  
col = NULL,  
facet = NULL,  
facet2 = NULL,  
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_expand_limits = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_oob = scales::oob_keep,  
x_position = "bottom",  
x_title = NULL,  
x_transform = NULL,  
y_breaks = NULL,  
y_expand = NULL,  
y_expand_limits = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_oob = scales::oob_keep,  
y_position = "left",  
y_title = NULL,  
y_transform = NULL,  
col_breaks = NULL,  
col_expand_limits = NULL,  
col_labels = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_oob = scales::oob_keep,  
col_pal = NULL,  
col_pal_na = "darkgrey",  
col_rescale = scales::rescale(),
```

```

col_steps = FALSE,
col_title = NULL,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_labels = NULL,
facet_labels_position = "top",
facet_labels_switch = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks	A scales::breaks_* function (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand, y_expand	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).

<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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits, y_limits, col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob, y_oob, col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title</code>	Axis title string. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<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_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
titles_to_case	A function to format unspecified titles_to_case. 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_title = "Treatment",
    y_title = "Response",
  )
```

`gg_path`*Path ggplot*

Description

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

Usage

```
gg_path(  
  data = NULL,  
  ...,  
  stat = "identity",  
  position = "identity",  
  coord = ggplot2::coord_cartesian(clip = "off"),  
  mode = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_expand_limits = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_oob = scales::oob_keep,  
  x_position = "bottom",  
  x_title = NULL,  
  x_transform = NULL,  
  y_breaks = NULL,  
  y_expand = NULL,  
  y_expand_limits = NULL,  
  y_labels = NULL,  
)
```

```

y_limits = NULL,
y_oob = scales::oob_keep,
y_position = "left",
y_title = NULL,
y_transform = NULL,
col_breaks = NULL,
col_expand_limits = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_oob = scales::oob_keep,
col_pal = NULL,
col_pal_na = "darkgrey",
col_rescale = scales::rescale(),
col_steps = FALSE,
col_title = NULL,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_labels = NULL,
facet_labels_position = "top",
facet_labels_switch = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will re-

	moves selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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_pretty()</code>), or a vector of breaks.
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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
x_limits, y_limits, col_limits	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
x_oob, y_oob, col_oob	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title	Axis title string. Use + <code>ggplot2::labs(... = NULL)</code> for no title.
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_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_pal	Colours to use. A character vector of hex codes (or names).
col_pal_na	Colour to use for NA values. A character vector of a hex code (or name).
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.

<code>facet_axes</code>	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>titles_to_case</code>	A function to format unspecified <code>titles_to_case</code> . 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_title = "Unemployment rate",
    y_expand_limits = 0,
    y_title = "Personal savings rate",
```

```
)
```

gg_point

Point ggplot

Description

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

Usage

```
gg_point(  
  data = NULL,  
  ...,  
  stat = "identity",  
  position = "identity",  
  coord = ggplot2::coord_cartesian(clip = "off"),  
  mode = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_expand_limits = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_oob = scales::oob_keep,  
  x_position = "bottom",  
  x_title = NULL,  
  x_transform = NULL,  
  y_breaks = NULL,
```

```

y_expand = NULL,
y_expand_limits = NULL,
y_labels = NULL,
y_limits = NULL,
y_oob = scales::oob_keep,
y_position = "left",
y_title = NULL,
y_transform = NULL,
col_breaks = NULL,
col_expand_limits = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_oob = scales::oob_keep,
col_pal = NULL,
col_pal_na = "darkgrey",
col_rescale = scales::rescale(),
col_steps = FALSE,
col_title = NULL,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_labels = NULL,
facet_labels_position = "top",
facet_labels_switch = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_to_case = snakecase::to_sentence_case
)

```

Arguments

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

coord	A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. <code>ggplot2::coord_cartesian()</code>).
mode	A *_mode_* theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the gg_* function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in <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 scales::breaks_* function (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
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_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_comma()</code>), or a vector of labels (Note this must be named for facet_labels).
x_limits, y_limits, col_limits	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
x_oob, y_oob, col_oob	For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</code> .
x_position, y_position	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using <code>y_position = "top"</code> with a *_mode_* theme, add <code>caption = ""</code> or <code>caption = "\n"</code> .
x_title, y_title, col_title	Axis title string. Use + <code>ggplot2::labs(... = NULL)</code> for no title.
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_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_pal	Colours to use. A character vector of hex codes (or names).

<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>titles_to_case</code>	A function to format unspecified <code>titles_to_case</code> . Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  mutate(across(sex, \(x) stringr::str_to_sentence(x))) |>
```

```
gg_point(  
  x = flipper_length_mm,  
  y = body_mass_g,  
  col = sex,  
)
```

gg_pointrange

Pointrange ggplot

Description

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

Usage

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

```

x_position = "bottom",
x_title = NULL,
x_transform = NULL,
y_breaks = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_labels = NULL,
y_limits = NULL,
y_oob = scales::oob_keep,
y_position = "left",
y_title = NULL,
y_transform = NULL,
col_breaks = NULL,
col_expand_limits = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_oob = scales::oob_keep,
col_pal = NULL,
col_pal_na = "darkgrey",
col_rescale = scales::rescale(),
col_steps = FALSE,
col_title = NULL,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_labels = NULL,
facet_labels_position = "top",
facet_labels_switch = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_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").

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 *_mode_* theme (e.g. light_mode_t(), grey_mode_r(), or dark_mode_r()). This argument adds the theme with side-effects, as the gg_* function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of gg_*.
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks	A scales::breaks_* function (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand, y_expand	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).
x_expand_limits, y_expand_limits, col_expand_limits	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_labels, y_labels, col_labels, facet_labels	A function that takes the breaks as inputs (e.g. \(\times\) stringr::str_to_sentence(x) or scales::label_comma()), or a vector of labels (Note this must be named for facet_labels).
x_limits, y_limits, col_limits	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with factor, forcats::fct_expand or forcats::fct_drop.
x_oob, y_oob, col_oob	For a continuous scale, a scales::oob_* function of how to handle values outside of limits. Defaults to scales::oob_keep.
x_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_title, y_title, col_title	Axis title string. Use + ggplot2::labs(... = NULL) for no title.
x_transform, y_transform, col_transform	For a continuous scale, a transformation object (e.g. scales::transform_log10()) or character string of this minus the transform_ prefix (e.g. "log10").
col_legend_ncol, col_legend_nrow	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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>titles_to_case</code>	A function to format unspecified <code>titles_to_case</code> . 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_title = "Treatment",  
  y_title = "Response",  
)
```

gg_polygon

Polygon ggplot

Description

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

Usage

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

```
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_labels = NULL,
x_limits = NULL,
x_oob = scales::oob_keep,
x_position = "bottom",
x_title = NULL,
x_transform = NULL,
y_breaks = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_labels = NULL,
y_limits = NULL,
y_oob = scales::oob_keep,
y_position = "left",
y_title = NULL,
y_transform = NULL,
col_breaks = NULL,
col_expand_limits = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_oob = scales::oob_keep,
col_pal = NULL,
col_pal_na = "darkgrey",
col_rescale = scales::rescale(),
col_steps = FALSE,
col_title = NULL,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_labels = NULL,
facet_labels_position = "top",
facet_labels_switch = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
```

```

  subtitle = NULL,
  caption = NULL,
  titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
<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_pretty()</code>), or a vector of breaks.
<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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits</code> , <code>y_limits</code> , <code>col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob</code> , <code>y_oob</code> , <code>col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title</code>	Axis title string. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<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_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>titles_to_case</code>	A function to format unspecified <code>titles_to_case</code> . 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,
x = NULL,
xmin = NULL,
xmax = NULL,
xend = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_labels = NULL,
x_limits = NULL,
x_oob = scales::oob_keep,
x_position = "bottom",
x_title = NULL,
x_transform = NULL,
y_breaks = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_labels = NULL,
y_limits = NULL,
y_oob = scales::oob_keep,
y_position = "left",
y_title = NULL,
y_transform = NULL,
col_breaks = NULL,
col_expand_limits = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_oob = scales::oob_keep,
col_pal = NULL,
```



```

col_pal_na = "darkgrey",
col_rescale = scales::rescale(),
col_steps = FALSE,
col_title = NULL,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_labels = NULL,
facet_labels_position = "top",
facet_labels_switch = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
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_pretty()</code>), or a vector of breaks.
x_expand, y_expand	Padding to the limits with the <code>ggplot2::expansion()</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).

<code>x_expand_limits, y_expand_limits, col_expand_limits</code>	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with <code>forcats::fct_expand</code> .
<code>x_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits, y_limits, col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob, y_oob, col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title</code>	Axis title string. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<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_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
titles_to_case	A function to format unspecified titles_to_case. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

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

set_blanket()

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

gg_quantile

Quantile ggplot

Description

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

Usage

```
gg_quantile(  
  data = NULL,  
  ...,  
  stat = "quantile",  
  position = "identity",  
  coord = ggplot2::coord_cartesian(clip = "off"),  
  mode = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_expand_limits = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_oob = scales::oob_keep,  
  x_position = "bottom",  
  x_title = NULL,  
  x_transform = NULL,  
  y_breaks = NULL,  
  y_expand = NULL,  
  y_expand_limits = NULL,  
  y_labels = NULL,  
  y_limits = NULL,  
  y_oob = scales::oob_keep,  
  y_position = "left",  
  y_title = NULL,  
  y_transform = NULL,  
  col_breaks = NULL,  
  col_expand_limits = NULL,  
  col_labels = NULL,  
  col_legend_ncol = NULL,
```

```

col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_oob = scales::oob_keep,
col_pal = NULL,
col_pal_na = "darkgrey",
col_rescale = scales::rescale(),
col_steps = FALSE,
col_title = NULL,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_labels = NULL,
facet_labels_position = "top",
facet_labels_switch = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
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.

<code>x_breaks, y_breaks, col_breaks</code>	A <code>scales::breaks_*</code> function (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits, y_limits, col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob, y_oob, col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title</code>	Axis title string. Use + <code>ggplot2::labs(... = NULL)</code> for no title.
<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_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".

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

Value

A ggplot object.

Examples

```
if (requireNamespace("quantreg", quietly = TRUE)) {  
  library(ggplot2)  
  library(palmerpenguins)  
  
  set_blanket()  
  
  penguins |>  
    gg_quantile(  
      x = flipper_length_mm,  
      y = body_mass_g,  
    )  
}
```

`gg_raster`*Raster ggplot*

Description

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

Usage

```
gg_raster(  
  data = NULL,  
  ...,  
  stat = "identity",  
  position = "identity",  
  coord = ggplot2::coord_cartesian(clip = "off"),  
  mode = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_expand_limits = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_oob = scales::oob_keep,  
  x_position = "bottom",  
  x_title = NULL,  
  x_transform = NULL,  
  y_breaks = NULL,  
  y_expand = NULL,  
  y_expand_limits = NULL,  
  y_labels = NULL,
```



```

y_limits = NULL,
y_oob = scales::oob_keep,
y_position = "left",
y_title = NULL,
y_transform = NULL,
col_breaks = NULL,
col_expand_limits = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_oob = scales::oob_keep,
col_pal = NULL,
col_pal_na = "darkgrey",
col_rescale = scales::rescale(),
col_steps = FALSE,
col_title = NULL,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_labels = NULL,
facet_labels_position = "top",
facet_labels_switch = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will re-

	moves selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
<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_pretty()</code>), or a vector of breaks.
<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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits</code> , <code>y_limits</code> , <code>col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob</code> , <code>y_oob</code> , <code>col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title</code> , <code>y_title</code> , <code>col_title</code>	Axis title string. Use + <code>ggplot2::labs(... = NULL)</code> for no title.
<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_legend_ncol</code> , <code>col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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.

facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y".
facet_axis_labels	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_labels_position	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
facet_labels_switch	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
facet_ncol, facet_nrow	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
facet_scales	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
facet_space	When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
titles_to_case	A function to format unspecified titles_to_case. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

`gg_rect`*Rect ggplot*

Description

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

Usage

```
gg_rect(  
  data = NULL,  
  ...,  
  stat = "identity",  
  position = "identity",  
  coord = ggplot2::coord_cartesian(clip = "off"),  
  mode = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_expand_limits = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_oob = scales::oob_keep,  
  x_position = "bottom",  
  x_title = NULL,  
  x_transform = NULL,  
  y_breaks = NULL,  
  y_expand = NULL,  
  y_expand_limits = NULL,  
  y_labels = NULL,  
)
```

```

y_limits = NULL,
y_oob = scales::oob_keep,
y_position = "left",
y_title = NULL,
y_transform = NULL,
col_breaks = NULL,
col_expand_limits = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_oob = scales::oob_keep,
col_pal = NULL,
col_pal_na = "darkgrey",
col_rescale = scales::rescale(),
col_steps = FALSE,
col_title = NULL,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_labels = NULL,
facet_labels_position = "top",
facet_labels_switch = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will re-

	moves selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
<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_pretty()</code>), or a vector of breaks.
<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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits</code> , <code>y_limits</code> , <code>col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob</code> , <code>y_oob</code> , <code>col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title</code> , <code>y_title</code> , <code>col_title</code>	Axis title string. Use + <code>ggplot2::labs(... = NULL)</code> for no title.
<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_legend_ncol</code> , <code>col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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.

facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y".
facet_axis_labels	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_labels_position	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
facet_labels_switch	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
facet_ncol, facet_nrow	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
facet_scales	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
facet_space	When the facet layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
titles_to_case	A function to format unspecified titles_to_case. 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(1:3, each = 3), 4)),
  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,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,
```



```
x_expand_limits = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_oob = scales::oob_keep,  
x_position = "bottom",  
x_title = NULL,  
x_transform = NULL,  
y_breaks = NULL,  
y_expand = NULL,  
y_expand_limits = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_oob = scales::oob_keep,  
y_position = "left",  
y_title = NULL,  
y_transform = NULL,  
col_breaks = NULL,  
col_expand_limits = NULL,  
col_labels = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_oob = scales::oob_keep,  
col_pal = NULL,  
col_pal_na = "darkgrey",  
col_rescale = scales::rescale(),  
col_steps = FALSE,  
col_title = NULL,  
col_transform = NULL,  
facet_axes = NULL,  
facet_axis_labels = "margins",  
facet_labels = NULL,  
facet_labels_position = "top",  
facet_labels_switch = NULL,  
facet_layout = NULL,  
facet_ncol = NULL,  
facet_nrow = NULL,  
facet_scales = "fixed",  
facet_space = "fixed",  
title = NULL,  
subtitle = NULL,  
caption = NULL,  
titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
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_pretty()</code>), or a vector of breaks.
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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
x_limits, y_limits, col_limits	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
x_oob, y_oob, col_oob	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title	Axis title string. Use + <code>ggplot2::labs(... = NULL)</code> for no title.
x_transform, y_transform, col_transform	For a continuous scale, a transformation object (e.g. <code>scales::transform_log10()</code>) or character string of this minus the <code>transform_</code> prefix (e.g. "log10").

<code>col_legend_ncol</code> , <code>col_legend_nrow</code>	The number of columns and rows in a legend guide.
<code>col_legend_rev</code>	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
<code>col_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>titles_to_case</code>	A function to format unspecified <code>titles_to_case</code> . 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_title = \"Level\",
  ) +
  geom_line(
    mapping = aes(y = level),
  )
```

gg_rug

Rug ggplot

Description

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

Usage

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

```
facet2 = NULL,  
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_expand_limits = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_oob = scales::oob_keep,  
x_position = "bottom",  
x_title = NULL,  
x_transform = NULL,  
y_breaks = NULL,  
y_expand = NULL,  
y_expand_limits = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_oob = scales::oob_keep,  
y_position = "left",  
y_title = NULL,  
y_transform = NULL,  
col_breaks = NULL,  
col_expand_limits = NULL,  
col_labels = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_oob = scales::oob_keep,  
col_pal = NULL,  
col_pal_na = "darkgrey",  
col_rescale = scales::rescale(),  
col_steps = FALSE,  
col_title = NULL,  
col_transform = NULL,  
facet_axes = NULL,  
facet_axis_labels = "margins",  
facet_labels = NULL,  
facet_labels_position = "top",  
facet_labels_switch = NULL,  
facet_layout = NULL,  
facet_ncol = NULL,  
facet_nrow = NULL,  
facet_scales = "fixed",
```

```

facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
<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_pretty()</code>), or a vector of breaks.
<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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits</code> , <code>y_limits</code> , <code>col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob</code> , <code>y_oob</code> , <code>col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title</code>	Axis title string. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<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_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>titles_to_case</code>	A function to format unspecified <code>titles_to_case</code> . Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

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

set_blanket()

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

gg_segment

Segment ggplot

Description

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

Usage

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



```
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_expand_limits = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_oob = scales::oob_keep,  
x_position = "bottom",  
x_title = NULL,  
x_transform = NULL,  
y_breaks = NULL,  
y_expand = NULL,  
y_expand_limits = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_oob = scales::oob_keep,  
y_position = "left",  
y_title = NULL,  
y_transform = NULL,  
col_breaks = NULL,  
col_expand_limits = NULL,  
col_labels = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_oob = scales::oob_keep,  
col_pal = NULL,  
col_pal_na = "darkgrey",  
col_rescale = scales::rescale(),  
col_steps = FALSE,  
col_title = NULL,  
col_transform = NULL,  
facet_axes = NULL,  
facet_axis_labels = "margins",  
facet_labels = NULL,  
facet_labels_position = "top",  
facet_labels_switch = NULL,  
facet_layout = NULL,  
facet_ncol = NULL,  
facet_nrow = NULL,  
facet_scales = "fixed",  
facet_space = "fixed",
```

```

  title = NULL,
  subtitle = NULL,
  caption = NULL,
  titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
<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_pretty()</code>), or a vector of breaks.
<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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits</code> , <code>y_limits</code> , <code>col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob</code> , <code>y_oob</code> , <code>col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title</code>	Axis title string. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<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_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>titles_to_case</code>	A function to format unspecified <code>titles_to_case</code> . 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,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
```

```
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_expand_limits = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_oob = scales::oob_keep,  
x_position = "bottom",  
x_title = NULL,  
x_transform = NULL,  
y_breaks = NULL,  
y_expand = NULL,  
y_expand_limits = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_oob = scales::oob_keep,  
y_position = "left",  
y_title = NULL,  
y_transform = NULL,  
col_breaks = NULL,  
col_expand_limits = NULL,  
col_labels = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_oob = scales::oob_keep,  
col_pal = NULL,  
col_pal_na = "darkgrey",  
col_rescale = scales::rescale(),  
col_steps = FALSE,  
col_title = NULL,  
col_transform = NULL,  
facet_axes = NULL,  
facet_axis_labels = "margins",  
facet_labels = NULL,  
facet_labels_position = "top",  
facet_labels_switch = NULL,  
facet_layout = NULL,  
facet_ncol = NULL,  
facet_nrow = NULL,  
facet_scales = "fixed",  
facet_space = "fixed",
```

```

  title = NULL,
  subtitle = NULL,
  caption = NULL,
  titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
<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_pretty()</code>), or a vector of breaks.
<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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits</code> , <code>y_limits</code> , <code>col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob</code> , <code>y_oob</code> , <code>col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title</code>	Axis title string. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<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_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>titles_to_case</code>	A function to format unspecified <code>titles_to_case</code> . Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)

set_blanket()

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

gg_smooth

Smooth ggplot

Description

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

Usage

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



```
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_expand_limits = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_oob = scales::oob_keep,  
x_position = "bottom",  
x_title = NULL,  
x_transform = NULL,  
y_breaks = NULL,  
y_expand = NULL,  
y_expand_limits = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_oob = scales::oob_keep,  
y_position = "left",  
y_title = NULL,  
y_transform = NULL,  
col_breaks = NULL,  
col_expand_limits = NULL,  
col_labels = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_oob = scales::oob_keep,  
col_pal = NULL,  
col_pal_na = "darkgrey",  
col_rescale = scales::rescale(),  
col_steps = FALSE,  
col_title = NULL,  
col_transform = NULL,  
facet_axes = NULL,  
facet_axis_labels = "margins",  
facet_labels = NULL,  
facet_labels_position = "top",  
facet_labels_switch = NULL,  
facet_layout = NULL,  
facet_ncol = NULL,  
facet_nrow = NULL,  
facet_scales = "fixed",  
facet_space = "fixed",  
title = NULL,  
subtitle = NULL,
```

```

caption = NULL,
titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
<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_pretty()</code>), or a vector of breaks.
<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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits</code> , <code>y_limits</code> , <code>col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob</code> , <code>y_oob</code> , <code>col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title</code>	Axis title string. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<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_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>caption</code>	Caption title string.
<code>titles_to_case</code>	A function to format unspecified <code>titles_to_case</code> . Defaults to <code>snakecase::to_sentence_case</code> .

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  mutate(across(sex, \(x) stringr::str_to_sentence(x))) |>
  tidyr::drop_na(sex) |>
  gg_smooth(
    x = flipper_length_mm,
    y = body_mass_g,
    col = sex,
    se = TRUE,
  )
```

gg_step

Step ggplot

Description

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

Usage

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

```
facet = NULL,  
facet2 = NULL,  
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_expand_limits = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_oob = scales::oob_keep,  
x_position = "bottom",  
x_title = NULL,  
x_transform = NULL,  
y_breaks = NULL,  
y_expand = NULL,  
y_expand_limits = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_oob = scales::oob_keep,  
y_position = "left",  
y_title = NULL,  
y_transform = NULL,  
col_breaks = NULL,  
col_expand_limits = NULL,  
col_labels = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_oob = scales::oob_keep,  
col_pal = NULL,  
col_pal_na = "darkgrey",  
col_rescale = scales::rescale(),  
col_steps = FALSE,  
col_title = NULL,  
col_transform = NULL,  
facet_axes = NULL,  
facet_axis_labels = "margins",  
facet_labels = NULL,  
facet_labels_position = "top",  
facet_labels_switch = NULL,  
facet_layout = NULL,  
facet_ncol = NULL,  
facet_nrow = NULL,
```

```

facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
<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_pretty()</code>), or a vector of breaks.
<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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits</code> , <code>y_limits</code> , <code>col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .

<code>x_oob, y_oob, col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title</code>	Axis title string. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<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_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title Title string.
subtitle Subtitle string.
caption Caption title string.
titles_to_case A function to format unspecified titles_to_case. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```

library(ggplot2)
library(dplyr)

set_blanket()

economics |>
  gg_step(
    x = date,
    y = unemploy,
    coord = ggplot2::coord_cartesian(clip = "on"),
    x_limits = c(lubridate::ymd("2010-01-01"), lubridate::NA_Date_),
    y_expand_limits = 0,
    y_title = "Unemployment",
  )

```

gg_text

Text ggplot

Description

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

Usage

```

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

```



```
ymin = NULL,  
ymax = NULL,  
yend = NULL,  
z = NULL,  
col = NULL,  
facet = NULL,  
facet2 = NULL,  
group = NULL,  
subgroup = NULL,  
label = NULL,  
text = NULL,  
sample = NULL,  
mapping = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_expand_limits = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_oob = scales::oob_keep,  
x_position = "bottom",  
x_title = NULL,  
x_transform = NULL,  
y_breaks = NULL,  
y_expand = NULL,  
y_expand_limits = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_oob = scales::oob_keep,  
y_position = "left",  
y_title = NULL,  
y_transform = NULL,  
col_breaks = NULL,  
col_expand_limits = NULL,  
col_labels = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_oob = scales::oob_keep,  
col_pal = NULL,  
col_pal_na = "darkgrey",  
col_rescale = scales::rescale(),  
col_steps = FALSE,  
col_title = NULL,  
col_transform = NULL,  
facet_axes = NULL,  
facet_axis_labels = "margins",  
facet_labels = NULL,
```

```

facet_labels_position = "top",
facet_labels_switch = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will removes selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
<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_pretty()</code>), or a vector of breaks.
<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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).

<code>x_limits, y_limits, col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob, y_oob, col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title</code>	Axis title string. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<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_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
titles_to_case	A function to format unspecified titles_to_case. 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_title = "Miles per gallon",
    col_pal = c(orange, "white", teal),
  )
)
```

gg_tile

Tile ggplot

Description

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

Usage

```
gg_tile(
  data = NULL,
  ...,
  stat = "identity",
```

```
position = "identity",
coord = ggplot2::coord_cartesian(clip = "off"),
mode = NULL,
x = NULL,
xmin = NULL,
xmax = NULL,
xend = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_expand = NULL,
x_expand_limits = NULL,
x_labels = NULL,
x_limits = NULL,
x_oob = scales::oob_keep,
x_position = "bottom",
x_title = NULL,
x_transform = NULL,
y_breaks = NULL,
y_expand = NULL,
y_expand_limits = NULL,
y_labels = NULL,
y_limits = NULL,
y_oob = scales::oob_keep,
y_position = "left",
y_title = NULL,
y_transform = NULL,
col_breaks = NULL,
col_expand_limits = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_oob = scales::oob_keep,
col_pal = NULL,
```

```

col_pal_na = "darkgrey",
col_rescale = scales::rescale(),
col_steps = FALSE,
col_title = NULL,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_labels = NULL,
facet_labels_position = "top",
facet_labels_switch = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
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_pretty()</code>), or a vector of breaks.
x_expand, y_expand	Padding to the limits with the <code>ggplot2::expansion()</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).

<code>x_expand_limits, y_expand_limits, col_expand_limits</code>	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with <code>forcats::fct_expand</code> .
<code>x_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits, y_limits, col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob, y_oob, col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title</code>	Axis title string. Use <code>+ ggplot2::labs(... = NULL)</code> for no title.
<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_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".
<code>facet_labels_switch</code>	When the facet layout is "grid", whether to switch the facet labels to the opposite side of the plot. Either "x", "y" or "both".
<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 layout is "grid" and facet scales are not "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
titles_to_case	A function to format unspecified titles_to_case. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

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

set_blanket()

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

 gg_violin

Violin ggplot

Description

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

Usage

```
gg_violin(  
  data = NULL,  
  ...,  
  stat = "ydensity",  
  position = "dodge",  
  coord = ggplot2::coord_cartesian(clip = "off"),  
  mode = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  z = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  subgroup = NULL,  
  label = NULL,  
  text = NULL,  
  sample = NULL,  
  mapping = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_expand_limits = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_oob = scales::oob_keep,  
  x_position = "bottom",  
  x_title = NULL,  
  x_transform = NULL,  
  y_breaks = NULL,  
  y_expand = NULL,  
  y_expand_limits = NULL,  
  y_labels = NULL,  
  y_limits = NULL,  
  y_oob = scales::oob_keep,  
  y_position = "left",  
  y_title = NULL,  
  y_transform = NULL,  
  col_breaks = NULL,  
  col_expand_limits = NULL,  
  col_labels = NULL,  
  col_legend_ncol = NULL,  
)
```

```

col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_oob = scales::oob_keep,
col_pal = NULL,
col_pal_na = "darkgrey",
col_rescale = scales::rescale(),
col_steps = FALSE,
col_title = NULL,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_labels = NULL,
facet_labels_position = "top",
facet_labels_switch = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
titles_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>*_mode_*</code> theme (e.g. <code>light_mode_t()</code> , <code>grey_mode_r()</code> , or <code>dark_mode_r()</code>). This argument adds the theme with side-effects, as the <code>gg_*</code> function will remove selected gridlines/axis-line/ticks. To avoid these side-effects, + the theme on to the output of <code>gg_*</code> .
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.

<code>x_breaks, y_breaks, col_breaks</code>	A <code>scales::breaks_*</code> function (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<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_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_comma()</code>), or a vector of labels (Note this must be named for <code>facet_labels</code>).
<code>x_limits, y_limits, col_limits</code>	For a continuous scale, a vector of length 2 to determine the limits of the scale. For a discrete scale, manipulate the data instead with <code>factor</code> , <code>forcats::fct_expand</code> or <code>forcats::fct_drop</code> .
<code>x_oob, y_oob, col_oob</code>	For a continuous scale, a <code>scales::oob_*</code> function of how to handle values outside of limits. Defaults to <code>scales::oob_keep</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_title, y_title, col_title</code>	Axis title string. Use + <code>ggplot2::labs(... = NULL)</code> for no title.
<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_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_pal</code>	Colours to use. A character vector of hex codes (or names).
<code>col_pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<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".
<code>facet_axis_labels</code>	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
<code>facet_labels_position</code>	When the facet layout is "wrap", the position of the facet labels. Either "top", "right", "bottom" or "left".

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

Value

A ggplot object.

Examples

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

set_blanket()

penguins |>
  tidyr::drop_na(sex) |>
  mutate(across(sex, \(x) stringr::str_to_sentence(x))) |>
  gg_violin(
    x = sex,
    y = body_mass_g,
    col = sex,
    facet = species,
    mode = light_mode_b(),
  )
```

greyness	<i>The grey_mode_* theme colours</i>
----------	--------------------------------------

Description

A vector of colours used in the grey_mode_* themes.

Usage

```
greyness
```

Format

An object of class character of length 3.

Value

A character vector.

Examples

```
scales::show_col(greyness)
```

grey_mode_b	<i>Grey mode theme with bottom legend</i>
-------------	-------------------------------------------

Description

Grey mode theme for a ggplot visualisation with bottom legend. It uses the colours from greyness.

Usage

```
grey_mode_b(base_size = 11, base_family = "")
```

Arguments

`base_size` The base size of the text. Defaults to 11.

`base_family` The base family of the text. Defaults to "".

Value

A ggplot theme.

Examples

```
library(palmerpenguins)
library(ggplot2)

set_blanket()

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

grey_mode_n

Grey mode theme with no legend

Description

Grey mode theme for a ggplot visualisation with no legend. It uses the colours from greyness.

Usage

```
grey_mode_n(base_size = 11, base_family = "")
```

Arguments

`base_size` The base size of the text. Defaults to 11.
`base_family` The base family of the text. Defaults to "".

Value

A ggplot theme.

Examples

```
library(palmerpenguins)
library(ggplot2)

set_blanket()

penguins |>
  gg_jitter(
    x = species,
    y = body_mass_g,
    col = species,
    mode = grey_mode_n()
  )
```

`grey_mode_r`*Grey mode theme with right legend*

Description

Grey mode theme for a ggplot visualisation with legend at right. It uses the colours from greyness.

Usage

```
grey_mode_r(base_size = 11, base_family = "")
```

Arguments

`base_size` The base size of the text. Defaults to 11.
`base_family` The base family of the text. Defaults to "".

Value

A ggplot theme.

Examples

```
library(palmerpenguins)
library(ggplot2)

set_blanket()

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

`grey_mode_t`*Grey mode theme with top legend*

Description

Grey mode theme for a ggplot visualisation with top legend. It uses the colours from greyness.

Usage

```
grey_mode_t(base_size = 11, base_family = "")
```

Arguments

`base_size` The base size of the text. Defaults to 11.
`base_family` The base family of the text. Defaults to "".

Value

A ggplot theme.

Examples

```
library(palmerpenguins)
library(ggplot2)

set_blanket()

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

lightness

The light_mode_ theme colours*

Description

A vector of colours used in the `light_mode_*` themes.

Usage

```
lightness
```

Format

An object of class character of length 3.

Value

A character vector.

Examples

```
scales::show_col(lightness)
```

light_mode_b	<i>Light mode theme with bottom legend</i>
--------------	--------------------------------------------

Description

Light mode theme for a ggplot visualisation with bottom legend. It uses the colours from `lightness`.

Usage

```
light_mode_b(base_size = 11, base_family = "")
```

Arguments

<code>base_size</code>	The base size of the text. Defaults to 11.
<code>base_family</code>	The base family of the text. Defaults to "".

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_b()
  )
```

light_mode_n	<i>Light mode theme with no legend</i>
--------------	----------------------------------------

Description

Light mode theme for a ggplot visualisation with no legend. It uses the colours from `lightness`.

Usage

```
light_mode_n(base_size = 11, base_family = "")
```

Arguments

base_size The base size of the text. Defaults to 11.
base_family The base family of the text. Defaults to "".

Value

A ggplot theme.

Examples

```
library(palmerpenguins)
library(ggplot2)

set_blanket()

penguins |>
  gg_jitter(
    x = species,
    y = body_mass_g,
    col = species,
    mode = light_mode_n()
  )
```

light_mode_r

Light mode theme with right legend

Description

Light mode theme for a ggplot visualisation with legend at right. It uses the colours from `lightness`.

Usage

```
light_mode_r(base_size = 11, base_family = "")
```

Arguments

base_size The base size of the text. Defaults to 11.
base_family The base family of the text. Defaults to "".

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()
  )
```

light_mode_t	<i>Light mode theme with top legend</i>
--------------	-----------------------------------------

Description

Light mode theme for a ggplot visualisation with top legend. It uses the colours from `lightness`.

Usage

```
light_mode_t(base_size = 11, base_family = "")
```

Arguments

<code>base_size</code>	The base size of the text. Defaults to 11.
<code>base_family</code>	The base family of the text. Defaults to "".

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_t()
  )
```

navy	<i>A navy colour</i>
------	----------------------

Description

A navy colour.

Usage

navy

Format

An object of class character of length 1.

Value

A character vector.

Examples

```
scales::show_col(navy)
```

orange	<i>A orange colour</i>
--------	------------------------

Description

A orange colour.

Usage

orange

Format

An object of class character of length 1.

Value

A character vector.

Examples

```
scales::show_col(orange)
```

replace_seq	<i>Replace a sequence of elements in a vector</i>
-------------	---------------------------------------------------

Description

Keep every nth element in a vector, and replace the rest with a value such as "".

Usage

```
replace_seq(x, ..., keep_nth = 2, offset = 0, replacement = "")
```

Arguments

x	A vector.
...	If numeric, other arguments passed to the <code>scales::comma</code> function.
keep_nth	The increment of elements to keep as is. Defaults to 2.
offset	An offset to start at the intended offset. Defaults to 0. Possible replaces are -1 to (keep_nth - 2)
replacement	The replacement value to replace non-kept elements with. Defaults to "".

Value

A vector.

Examples

```
replace_seq(seq(1000, 7000, 1000))
replace_seq(seq(1000, 7000, 1000), offset = -1)
replace_seq(seq(1000, 7000, 1000), keep_nth = 3)
replace_seq(LETTERS[1:12])
```

set_blanket	<i>Set the default style</i>
-------------	------------------------------

Description

Set the default style by setting the default mode and updating a series of geom and annotate defaults.

Usage

```
set_blanket(
  mode = light_mode_r(),
  geom_default_colour = blue,
  annotate_default_colour = lightness[2],
  ...
)
```

Arguments

mode A `*_mode_*` theme set globally for when mode = NULL. E.g. `light_mode_t()`, `grey_mode_r()`, or `dark_mode_r()`.

geom_default_colour A default geom colour used within `weave_geom_defaults()`.

annotate_default_colour A default annotate colour used within `weave_annotate_defaults()`.

... Provided only to support trailing commas.

Value

A globally set mode and updated geom defaults.

Examples

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

set_blanket(dark_mode_r(), orange, darkness[2])

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")

set_blanket()
```

 teal

A teal colour

Description

A teal colour.

Usage

```
teal
```

Format

An object of class character of length 1.

Value

A character vector.

Examples

```
scales::show_col(teal)
```

```
weave_annotate_defaults
```

Update a series of annotate defaults

Description

Update a series of geom defaults commonly used for annotation (i.e. *_vline, *_hline, *_abline, *_curve, *_text and *_label).

Usage

```
weave_annotate_defaults(colour = lightness[2])
```

Arguments

colour A hex colour. Defaults to lightness[2].

Value

Updated annotation geom defaults

Examples

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

set_blanket()
weave_annotate_defaults("#bc5090")

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")
```

weave_geom_defaults *Update a series of geom defaults*

Description

Update a series of geom defaults.

Usage

```
weave_geom_defaults(colour = blue)
```

Arguments

colour A hex colour. Defaults to blue.

Value

Updated geom defaults

Examples

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

set_blanket()
weave_geom_defaults("#bc5090")

penguins |>
  gg_point(
    x = flipper_length_mm,
    y = body_mass_g,
    x_breaks = scales::breaks_pretty(3),
  )
```

weave_mode	<i>Set the default mode</i>
------------	-----------------------------

Description

Set the default mode for gg_* functions.

Usage

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

Arguments

mode A new *_mode_* theme (e.g. [dark_mode_r\(\)](#)).

Value

A globally set mode

Examples

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

set_blanket()
weave_mode(dark_mode_r())

penguins |>
  gg_point(
    x = flipper_length_mm,
    y = body_mass_g,
    x_breaks = scales::breaks_pretty(3),
  )

weave_mode(dark_mode_r())
```

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