Package 'ggblanket'

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Title Simplify 'ggplot2' Visualisation

Version 12.4.0

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

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

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aes_contrast A colour aesthetic for contrast

Description

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

Usage

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

Arguments

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

Value

A ggplot2 aesthetic

Examples

```
library(ggplot2)
library(dplyr)
library(stringr)
library(palmerpenguins)
set_blanket()
penguins |>
  count(species, sex) |>
  gg_col(
    x = sex,
    y = n,
    col = species,
```

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

annotate_axis_line Annotated axis line segment

Description

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

Usage

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

Arguments

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

Value

A list of a annotate layer and theme elements.

Examples

```
library(dplyr)
library(ggplot2)
library(ggblanket)
library(palmerpenguins)
set_blanket()
d <- penguins |>
  add_row(
   flipper_length_mm = 175,
   body_mass_g = 2500,
   species = "Adelie",
  )
# axis line goes through geom
d |>
  gg_point(
   x = flipper_length_mm,
   y = body_mass_g,
   col = species,
  )
# axis line does not go through geom
d |>
  gg_blanket(
   x = flipper_length_mm,
   y = body_mass_g,
   col = species,
  ) +
  annotate_axis_line() +
  geom_point()
```

bind_each_all Bind each all.

Description

Binds data to support plotting each category and all combined data.

Usage

```
bind_each_all(
   data,
    ...,
   name = "each_all",
   each = "Each",
   all = "All",
   all_after = Inf
)
```

Arguments

data	A data frame or tibble.
	An unquoted variable.
name	A variable name. Defaults to each_all.
each	A string for the each value. Defaults to "Each".
all	A string for the all value. Defaults to "All".
all_after	A number for where the all value should be placed after. Use 0 for first or Inf for last. Defaults to Inf.

Value

A data frame or tibble

Examples

```
library(dplyr)
library(ggplot2)
library(palmerpenguins)
set_blanket()
penguins |>
    distinct(species)
penguins |>
    bind_each_all(species) |>
    distinct(species, each_all)
```

```
blue
```

```
penguins |>
  bind_each_all(species) |>
  gg_jitter(
   x = species,
   y = body_mass_g,
  )
penguins |>
  bind_each_all(species) |>
  gg_jitter(
   x = species,
   y = body_mass_g,
   col = each_all,
   col_palette = c(blue, grey),
  ) +
  theme(legend.position = "none")
penguins |>
  bind_each_all(species) |>
  group_by(species, each_all) |>
  summarise(across(body_mass_g, \(x) mean(x, na.rm = TRUE))) |>
  gg_col(
   x = species,
   y = body_mass_g,
   col = each_all,
   col_palette = c(blue, grey),
   width = 0.5,
   y_label = "Average body mass g",
  ) +
  theme(legend.position = "none")
penguins |>
  bind_each_all(species, all = "All\nspecies") |>
  gg_jitter(
   x = species,
   y = body_mass_g,
   col = each_all,
    col_palette = c(blue, grey),
    facet = each_all,
    facet_layout = "grid",
    facet_scales = "free_x",
    facet_space = "free_x",
  ) +
  theme(legend.position = "none") +
  theme(strip.text.x = element_blank()) +
  labs(x = NULL)
```

Description

A blue colour.

Usage

blue

Value

A character vector.

Examples

scales::show_col(blue)

dark_mode_r Dark mode theme family

Description

A dark mode family of functions:

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

```
dark_mode_r(
  ...,
 base_size = 11,
 base_family = "",
 base_colour = "#C8D7DFFF",
  axis_line_colour = "#C8D7DFFF",
  axis_line_linewidth = 0.25,
  axis_ticks_colour = axis_line_colour,
  axis_ticks_linewidth = axis_line_linewidth,
  axis_ticks_length = grid::unit(11/3, "pt"),
  panel_grid_colour = "#00040AFF",
  panel_grid_linewidth = 1.33,
  panel_background_fill = "#050D1BFF",
  plot_background_fill = "#00040AFF",
  legend_axis_line_colour = plot_background_fill,
  legend_axis_line_linewidth = axis_line_linewidth,
  legend_background_fill = plot_background_fill,
  legend_key_fill = plot_background_fill,
  legend_ticks_colour = legend_axis_line_colour,
```

```
legend_ticks_linewidth = legend_axis_line_linewidth,
  legend_ticks_length = ggplot2::rel(c(0.175, 0))
)
dark_mode_t(
  . . . ,
  base_size = 11,
  base_family = ""
  base_colour = "#C8D7DFFF",
  axis_line_colour = "#C8D7DFFF",
  axis_line_linewidth = 0.25,
  axis_ticks_colour = axis_line_colour,
  axis_ticks_linewidth = axis_line_linewidth,
  axis_ticks_length = grid::unit(11/3, "pt"),
  panel_grid_colour = "#00040AFF",
  panel_grid_linewidth = 1.33,
  panel_background_fill = "#050D1BFF",
  plot_background_fill = "#00040AFF",
  legend_axis_line_colour = plot_background_fill,
  legend_axis_line_linewidth = axis_line_linewidth,
  legend_background_fill = plot_background_fill,
  legend_key_fill = plot_background_fill,
  legend_ticks_colour = legend_axis_line_colour,
  legend_ticks_linewidth = legend_axis_line_linewidth,
  legend_ticks_length = ggplot2::rel(c(0.175, 0))
)
dark_mode_b(
  . . . ,
  base_size = 11,
  base_family = "",
  base_colour = "#C8D7DFFF",
  axis_line_colour = "#C8D7DFFF",
  axis_line_linewidth = 0.25,
  axis_ticks_colour = axis_line_colour,
  axis_ticks_linewidth = axis_line_linewidth,
  axis_ticks_length = grid::unit(11/3, "pt"),
  panel_grid_colour = "#00040AFF",
  panel_grid_linewidth = 1.33,
  panel_background_fill = "#050D1BFF",
  plot_background_fill = "#00040AFF",
  legend_axis_line_colour = plot_background_fill,
  legend_axis_line_linewidth = axis_line_linewidth,
  legend_background_fill = plot_background_fill,
  legend_key_fill = plot_background_fill,
  legend_ticks_colour = legend_axis_line_colour,
  legend_ticks_linewidth = legend_axis_line_linewidth,
  legend_ticks_length = ggplot2::rel(c(0.175, 0))
```

Arguments

)

	Provided to require argument naming, support trailing commas etc.
base_size	The base size of the text theme element. Defaults to 11.
base_family	The base family of the text theme element. Defaults to "".
<pre>base_colour axis_line_colou</pre>	The base colour of the text theme element.
axis_iiie_coiou	The colour of the axis.line theme element.
axis_line_linew	
	The linewidth of the axis.line theme element.
axis_ticks_cold	
axis_ticks_line	The colour of the axis.ticks theme element.
axis_ticks_line	The linewidth of the axis.ticks theme element.
axis_ticks_leng	
	The length of the axis.ticks.length theme element.
panel_grid_colo	ur
	The colour of the panel.grid theme element.
panel_grid_line	width
	The linewidth of the panel.grid theme element.
panel_backgroun	d_fill
	The fill (and colour) of the panel.background theme element.
plot_background	L_fill
	The fill (and colour) of the plot.background theme element.
<pre>legend_axis_lin</pre>	ne_colour
	The colour of the legend.axis.line theme element.
<pre>legend_axis_lin</pre>	e_linewidth
	The linewidth of the legend.axis.line theme element.
legend_backgrou	
	The fill (and colour) of the legend.background theme element.
<pre>legend_key_fill</pre>	
	The fill (and colour) of the legend.key theme element.
<pre>legend_ticks_co</pre>	
	The colour of the legend.ticks theme element.
legend_ticks_li	
.	The linewidth of the legend.ticks theme element.
legend_ticks_le	-
	The theme element.

Value

A ggplot theme.legend.ticks.length

Examples

```
library(palmerpenguins)
library(ggplot2)
set_blanket()
penguins |>
  gg_point(
   x = flipper_length_mm,
   y = body_mass_g,
   col = species,
   mode = dark_mode_r()
  )
 penguins |>
  gg_point(
   x = flipper_length_mm,
   y = body_mass_g,
   col = species,
   mode = dark_mode_t()
  )
 penguins |>
  gg_point(
   x = flipper_length_mm,
   y = body_mass_g,
   col = species,
   mode = dark_mode_b()
  )
```

gg_area

Area ggplot

Description

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

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

theme_axis_ticks_rm = NULL, theme_panel_grid_rm = NULL, blend = NULL, x = NULL, xmin = NULL, xmax = NULL, xend = NULL, y = NULL, ymin = NULL, ymax = NULL, yend = NULL, z = NULL, col = NULL, facet = NULL, facet2 = NULL, group = NULL, subgroup = NULL, label = NULL, text = NULL, sample = NULL, mapping = NULL, x_breaks = NULL, x_breaks_n = NULL, $x_expand = NULL$, x_limits_include = NULL, x_label = NULL, x_labels = NULL, x_position = "bottom", x_sec_axis = ggplot2::waiver(), x_symmetric = NULL, x_transform = NULL, y_breaks = NULL, y_breaks_n = NULL, y_expand = NULL, y_limits_include = NULL, $y_label = NULL$, $y_{labels} = NULL,$ y_position = "left", y_sec_axis = ggplot2::waiver(), y_symmetric = NULL, y_transform = NULL, col_breaks = NULL, $col_breaks_n = 5$, col_drop = FALSE, col_limits_include = NULL, col_label = NULL, col_labels = NULL, col_legend_ncol = NULL,

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

Arguments

)

data	A data frame or tibble.
	Other arguments passed to within a params list in 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orienta	tion
	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_li	ne_rm
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ti	cks_rm
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_g	rid_rm
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.

blend	The blending mode per ggblend::blend() (e.g. "multiply").
x, xmin, xmax, x subgroup, label,	end, y, ymin, ymax, yend, z, col, facet, facet2, group, 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_brea	
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y_br	reaks_n, col_breaks_n
x_expand, y_expa	A number of desired breaks for when $*_breaks = NULL$.
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. $c(0, 0)$).
x_limits_includ	<pre>le, y_limits_include, col_limits_include</pre>
	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.
<pre>x_label, y_label</pre>	
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.
x_labels, y_labe	els, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. (x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position, y_po	osition
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".
x_sec_axis, y_se	ec_axis
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric,y_s	
	TRUE or FALSE of whether a symmetric scale.
x_transform, y_t	ransform, 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").
<pre>col_drop, facet_</pre>	
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol	., col_legend_nrow The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
col_palette	A character vector of hex codes (or names) or a scales::pal_*() function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a scales::rescale() function.

col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_theme_*() may be needed.
facet_axis_lab	els
	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
facet_ncol, face	et_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 direc-
	tions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
facet_space	When the facet scales are not "fixed", whether facet space should be "fixed"
	across facets, "free" to be proportional in both directions, or free to be propor-
	tional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
label_case	A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
set_blanket()
economics |>
  gg_area(
    x = date,
    y = unemploy,
    y_label = "Unemployment",
   )
```

gg_bar

Description

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

```
gg_bar(
  data = NULL,
  ...,
  stat = "count",
  position = "stack",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
 yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_limits_include = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
```

gg_bar

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

)

Arguments

data	A data frame or tibble.
	Other arguments passed to within a params list in 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orien	
	The orientation of plot, which affects the theme components that are removed. Either " x " or " y ".
theme_axis_	
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_	
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel	-
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
	x, xend, y, ymin, ymax, yend, z, col, facet, facet2, group,
subgroup, la	bel, 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_l	breaks, col_breaks
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of
x_breaks_n,	breaks. y_breaks_n, col_breaks_n
x_expand, y_e	A number of desired breaks for when *_breaks = NULL. expand
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).
x_limits_in	clude,y_limits_include,col_limits_include
	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_la	abel, col_label
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.
x_labels, y_	labels, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for
x_position,	facet_labels).
~_postcion,	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using
	y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".

gg_bar

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
library(palmerpenguins)
set_blanket()
penguins |>
  gg_bar(
    y = species,
    width = 0.75,
)
```

gg_bin_2d

Bin_2d ggplot

Description

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

Usage

```
gg_bin_2d(
  data = NULL,
  ...,
  stat = "bin2d",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
 yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
```

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

```
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_case = NULL
)
```

Arguments

data	A data frame or tibble.
	Other arguments passed to within a params list in 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orientat:	ion
	The orientation of plot, which affects the theme components that are removed. Either " x " or " y ".
theme_axis_line	e_rm
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_tic	<s_rm< td=""></s_rm<>
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_gr:	id_rm
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
x, xmin, xmax, x subgroup, label,	kend, y, ymin, ymax, yend, z, col, facet, facet2, group, , text, sample An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.
x_breaks, y_breaks, col_breaks	
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y_breaks_n, col_breaks_n	
	A number of desired breaks for when *_breaks = NULL.

x_expand, y_expa	nd
	Padding to the limits with the ggplot2::expansion() function, or a vector of
	length 2 (e.g. c(0, 0)).
x_limits_includ	<pre>le, y_limits_include, col_limits_include</pre>
	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_label	., col_label
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.
x_labels, y_labe	els, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position,y_po	osition
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".
x_sec_axis,y_se	ec_axis
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric,y_s	symmetric
	TRUE or FALSE of whether a symmetric scale.
x_transform,y_t	ransform, 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_drop, facet_	_drop
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol	., col_legend_nrow
	The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
col_palette	A character vector of hex codes (or names) or a scales::pal_*() function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a scales::rescale() function.
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_theme_*() may be needed.
facet_axis_labe	els
	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
facet_ncol, face	et_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 direc- tions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
facet_space	When the facet scales are <i>not</i> "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
label_case	A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
set_blanket()
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.

```
gg_blanket(
   data = NULL,
    ...,
   geom = "blank",
   stat = "identity",
   position = "identity",
   coord = NULL,
```

gg_blanket

```
theme = NULL,
theme_orientation = NULL,
theme_axis_line_rm = NULL,
theme_axis_ticks_rm = NULL,
theme_panel_grid_rm = NULL,
blend = NULL,
x = NULL,
xmin = NULL,
xmax = NULL,
xend = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_limits_include = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_limits_include = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_limits_include = NULL,
```

gg_blanket

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

Arguments

)

data	A data frame or tibble.
	Other arguments passed to within a params list in layer().
geom	A geometric object to display the data. A snakecase character string of a ggproto Geom subclass object minus the Geom prefix (e.g. "point").
stat	A statistical transformation to use on the data. A snakecase character string of a ggproto Stat subclass object minus the Stat prefix (e.g. "identity").
position	A position adjustment. A snakecase character string of a ggproto Position sub- class object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
coord	A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orientation	
	The orientation of plot, which affects the theme components that are removed. Either " x " or " y ".
theme_axis_line_rm	
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.

gg_blanket

theme_axis_tick	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_gri	•
eneme_panei_pri	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
x, xmin, xmax, x subgroup,label,	end, y, ymin, ymax, yend, z, col, facet, facet2, group, 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_brea	iks, col_breaks
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y_br	reaks_n, col_breaks_n
	A number of desired breaks for when *_breaks = NULL.
x_expand, y_expa	
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. $c(0, 0)$).
x_limits_includ	<pre>le, y_limits_include, col_limits_include</pre>
	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_label	., col_label
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.
x_labels, y_labe	els, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position,y_pc	osition
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".
x_sec_axis,y_se	ec_axis
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric,y_s	symmetric
	TRUE or FALSE of whether a symmetric scale.
x_transform,y_t	ransform, 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_drop, facet_	drop
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol	., col_legend_nrow
	The number of columns and more in a locan denside

The number of columns and rows in a legend guide.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
library(palmerpenguins)
set_blanket()
penguins |>
gg_blanket(
   geom = "violin",
   stat = "ydensity",
   position = "dodge",
   x = species,
```

```
y = body_mass_g,
col = sex,
)
```

gg_boxplot

Boxplot ggplot

Description

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

```
gg_boxplot(
  data = NULL,
  . . . ,
  stat = "boxplot",
  position = "dodge2",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
 ymin = NULL,
 ymax = NULL,
 yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
 mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
```

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

)

Arguments

data

A data frame or tibble.

	Other arguments passed to within a params list in 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that includes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orientati	on
	The orientation of plot, which affects the theme components that are removed. Either " x " or " y ".
theme_axis_line	e_rm TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_tick	<pre>cs_rm TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.</pre>
theme_panel_gri	d_rm TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
x, xmin, xmax, x subgroup,label,	end, y, ymin, ymax, yend, z, col, facet, facet2, group, 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_brea	aks, col_breaks
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y_br	<pre>reaks_n, col_breaks_n A number of desired breaks for when *_breaks = NULL.</pre>
x_expand, y_expa	and
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. $c(0, 0)$).
x_limits_incluc	<pre>de, y_limits_include, col_limits_include</pre>
	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_label	
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.

x_labels, y_labe	ls, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x)
	or scales::label_*()), or a vector of labels. (Note this must be named for
	facet_labels).
x_position, y_po	
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using
	y_position = "top" with a *_theme_* theme, add caption = "" or caption = $" \n"$.
x_sec_axis, y_se	
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric,y_s	
v thoughout t	TRUE or FALSE of whether a symmetric scale.
x_transform, y_t	ransform, 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_drop, facet_	
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col legend ncol	, col_legend_nrow
cor_regend_neor	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
_ 0 _	FALSE.
col_palette	A character vector of hex codes (or names) or a scales::pal_*() function.
<pre>col_palette_na</pre>	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a scales::rescale() function.
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or
	"all_y". Sometimes + *_theme_*() may be needed.
<pre>facet_axis_labe</pre>	ls
	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or
	facet2) argument is provided, then defaults to "wrap". If NULL and both facet
	and facet2 arguments are provided, defaults to "grid".
facet_ncol, face	
	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 direc-
	tions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
facet_space	When the facet scales are <i>not</i> "fixed", whether facet space should be "fixed"
	across facets, "free" to be proportional in both directions, or free to be propor-
	tional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
label_case	A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

gg_col

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
library(palmerpenguins)
set_blanket()
penguins |>
  gg_boxplot(
    x = flipper_length_mm,
    y = species,
    col = sex,
    blend = "multiply",
)
```

gg_col

Col ggplot

Description

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

```
gg_col(
  data = NULL,
  ...,
  stat = "identity",
  position = "stack",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
 y = NULL,
  ymin = NULL,
 ymax = NULL,
```

gg_col

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

gg_col

```
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_case = NULL
```

Arguments

data	A data frame or tibble.
	Other arguments passed to within a params list in layer().
	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").
	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()).
	A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).
	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orientation	on
	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line	_rm
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_tick	s_rm
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_gri	d_rm
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
subgroup, label,	end, y, ymin, ymax, yend, z, col, facet, facet2, group, text, sample An unquoted aesthetic variable.
	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_brea	<pre>iks, col_breaks A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.</pre>
v breaks n v br	reaks_n, col_breaks_n
	A number of desired breaks for when *_breaks = NULL.
x_expand, y_expa	and
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. $c(0, 0)$).
x_limits_incluc	<pre>le, y_limits_include, col_limits_include</pre>
	For a continuous variable, any values that the limits should encompass (e.g. \emptyset). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_label	., col_label
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.
x_labels, y_labe	els, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. (x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position,y_po	osition
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".
x_sec_axis,y_se	ec_axis
/ 0 _	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric,y_s	-
,	TRUE or FALSE of whether a symmetric scale.
x transform.v t	ransform, 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_drop, facet_	drop
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol	., col_legend_nrow
-	The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
col_palette	A character vector of hex codes (or names) or a scales::pal_*() function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a scales::rescale() function.
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_theme_*() may be needed.
facet_axis_labels	
	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
gg_col

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
library(palmerpenguins)
set_blanket()
penguins |>
  tidyr::drop_na(sex) |>
  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

Description

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

Usage

```
gg_contour(
  data = NULL,
  ...,
  stat = "contour",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
 yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_limits_include = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
```

gg_contour

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

Arguments

)

data	A data frame or tibble.
	Other arguments passed to within a params list in 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orient	ation
	The orientation of plot, which affects the theme components that are removed. Either " x " or " y ".
theme_axis_]	
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_t	
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_	
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
	x, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, pel,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_b	preaks, col_breaks
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y	/_breaks_n, col_breaks_n
	A number of desired breaks for when *_breaks = NULL.
x_expand, y_e	
.	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).
x_limits_ind	clude, y_limits_include, col_limits_include
	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_la	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no
v lobels v l	title. Labels, col_labels, facet_labels
∧_100€13, y_1	A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for
x_position, y	facet_labels).
~_posicion, j	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using
	y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".

gg_contour

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

Value

A ggplot object.

Examples

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

gg_contour_filled Contour_filled ggplot

Description

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

Usage

```
gg_contour_filled(
  data = NULL,
  ...,
  stat = "contour_filled",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
 yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
```

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

```
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_case = NULL
)
```

Arguments

data	A data frame or tibble.	
	Other arguments passed to within a params list in 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()).	
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU	
theme_orientati	on	
	The orientation of plot, which affects the theme components that are removed. Either " x " or " y ".	
theme_axis_line	e_rm	
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.	
theme_axis_tick	ks_rm	
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.	
theme_panel_gri	.d_rm	
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.	
blend	The blending mode per ggblend::blend() (e.g. "multiply").	
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample		
	An unquoted aesthetic variable.	
mapping	A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.	
x_breaks, y_breaks, col_breaks		
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.	
x_breaks_n, y_br	reaks_n, col_breaks_n A number of desired breaks for when *_breaks = NULL.	

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

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

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
set_blanket()
faithfuld |>
  gg_contour_filled(
    x = waiting,
    y = eruptions,
    z = density,
    bins = 8,
)
```

gg_crossbar

Description

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

Usage

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

Crossbar ggplot

```
theme_orientation = NULL,
theme_axis_line_rm = NULL,
theme_axis_ticks_rm = NULL,
theme_panel_grid_rm = NULL,
blend = NULL,
x = NULL,
xmin = NULL,
xmax = NULL,
xend = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_limits_include = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_limits_include = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_limits_include = NULL,
col_label = NULL,
```

gg_crossbar

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

Arguments

)

data	A data frame or tibble.	
	Other arguments passed to within a params list in 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()).	
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that includes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU	
theme_orientation		
	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".	
theme_axis_line	e_rm	
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.	
theme_axis_ticks_rm		
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.	

gg_crossbar

theme_panel_gri	d_rm
	\ensuremath{TRUE} or \ensuremath{FALSE} of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
x, xmin, xmax, x	end, y, ymin, ymax, yend, z, col, facet, facet2, group,
<pre>subgroup, label,</pre>	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_brea	ks, col_breaks
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y_br	eaks_n, col_breaks_n
	A number of desired breaks for when \star _breaks = NULL.
x_expand, y_expa	
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. $c(0, 0)$).
x_limits_includ	e,y_limits_include,col_limits_include
	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.
<pre>x_label, y_label</pre>	, col_label
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.
<pre>x_labels, y_labe</pre>	ls, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position, y_po	sition
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".
<pre>x_sec_axis, y_se</pre>	c_axis
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
<pre>x_symmetric, y_s</pre>	ymmetric
	TRUE or FALSE of whether a symmetric scale.
x_transform, y_t	ransform, 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").
<pre>col_drop, facet_</pre>	drop
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<pre>col_legend_ncol</pre>	,col_legend_nrow
	The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

col_palette	A character vector of hex codes (or names) or a scales::pal_*() function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a scales::rescale() function.
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_theme_*() may be needed.
facet_axis_labe	
	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
facet_ncol, face	
	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 direc- tions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
facet_space	When the facet scales are <i>not</i> "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
label_case	A function to format the label of unlabelled variables. Defaults to $\texttt{snakecase::to_sentence_case}$.

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,
```

gg_density

```
y = resp,
ymin = lower,
ymax = upper,
col = group,
width = 0.5,
x_label = "Treatment",
y_label = "Response",
blend = "multiply",
```

gg_density

Density ggplot

Description

)

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

Usage

```
gg_density(
  data = NULL,
  . . . ,
  stat = "density",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
 yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
```

gg_density

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

gg_density

label_case = NULL
)

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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orient	ation
	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_l	
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_t	
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_	-
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
	k, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, wel, 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_b	reaks, col_breaks
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n,y	_breaks_n, col_breaks_n
	A number of desired breaks for when *_breaks = NULL.
x_expand, y_e	Padding to the limits with the ggplot2::expansion() function, or a vector of
	length 2 (e.g. $c(0, 0)$).
x_limits_inc	lude, y_limits_include, col_limits_include
	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.

x_label, y_label	l, col_label
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no
x labels v labe	title. els, col_labels, facet_labels
x_100010, y_1000	A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position, y_po	
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".
x_sec_axis,y_se	
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric,y_s	-
y transform y t	TRUE or FALSE of whether a symmetric scale.
x_transform, y_t	For a continuous scale, a transformation object (e.g. scales::transform_log10()) or character string of this minus the transform_ prefix (e.g. "log10").
<pre>col_drop, facet_</pre>	
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol	l, 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
col_legend_lev	FALSE.
col_palette	A character vector of hex codes (or names) or a scales::pal_*() function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a scales::rescale() function.
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_theme_*() may be needed.
<pre>facet_axis_labe</pre>	els
	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
facet_ncol, face	et_nrow
	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
facet_scales	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
facet_space	When the facet scales are <i>not</i> "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
label_case	A function to format the label of unlabelled variables. Defaults to $\texttt{snakecase}::\texttt{to}_\texttt{sentence}_\texttt{case}.$

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
library(palmerpenguins)
set_blanket()
penguins |>
  gg_density(
    x = flipper_length_mm,
    col = species,
    blend = "multiply",
  )
```

gg_density_2d Density_2d ggplot

Description

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

Usage

```
gg_density_2d(
  data = NULL,
   ...,
  stat = "density_2d",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
```

gg_density_2d

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

gg_density_2d

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

Arguments

)

data	A data frame or tibble.	
	Other arguments passed to within a params list in layer().	
stat	A statistical transformation to use on the data. A snakecase character string of a gpproto Stat subclass object minus the Stat prefix (e.g. "identity").	
position	A position adjustment. A snakecase character string of a ggproto Position sub- class object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).	
coord	A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).	
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU	
theme_orientati	on	
	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".	
theme_axis_line_rm		
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.	
theme_axis_ticks_rm		
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.	
theme_panel_grid_rm		
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.	
blend	The blending mode per ggblend::blend() (e.g. "multiply").	
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample		
	An unquoted aesthetic variable.	

mapping	A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.
x_breaks, y_brea	
x_DI eaks, y_DI ea	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of
	breaks.
x_breaks_n, y_br	reaks_n, col_breaks_n
	A number of desired breaks for when *_breaks = NULL.
x_expand, y_expa	ind
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. $c(0, 0)$).
x_limits_includ	<pre>le, y_limits_include, col_limits_include</pre>
	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_label	., col_label
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.
x_labels, y_labe	els, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position,y_pc	osition
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".
x_sec_axis,y_se	c_axis
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric,y_s	
	TRUE or FALSE of whether a symmetric scale.
x_transform, y_t	ransform, 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_drop, facet_	
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol	., col_legend_nrow The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
col_palette	A character vector of hex codes (or names) or a scales::pal_*() function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a scales::rescale() function.
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_theme_*() may be needed.

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

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
library(palmerpenguins)
set_blanket()
faithful |>
  gg_density_2d(
    x = waiting,
    y = eruptions,
    bins = 8,
    contour = TRUE,
  )
```

gg_density_2d_filled Density_2d_filled ggplot

Description

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

Usage

```
gg_density_2d_filled(
  data = NULL,
  ...,
  stat = "density_2d_filled",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_limits_include = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
  x_symmetric = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_breaks_n = NULL,
  y_expand = NULL,
  y_limits_include = NULL,
  y_label = NULL,
  y_labels = NULL,
 y_position = "left",
```

```
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_limits_include = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_case = NULL
```

```
)
```

Arguments

data	A data frame or tibble.	
	Other arguments passed to within a params list in 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()).	
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = N	
theme_orientation		
	The orientation of plot, which affects the theme components that are removed. Either " x " or " y ".	

theme_axis_line	e_rm TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.	
theme_axis_tic	<s_rm< td=""></s_rm<>	
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.	
theme_panel_gri	id_rm	
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.	
blend	The blending mode per ggblend::blend() (e.g. "multiply").	
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample An unquoted aesthetic variable.		
	-	
mapping	A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.	
x_breaks, y_brea	aks, col_breaks	
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.	
x_breaks_n, y_br	reaks_n, col_breaks_n	
	A number of desired breaks for when *_breaks = NULL.	
x_expand, y_expa		
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).	
x_limits_includ	de,y_limits_include,col_limits_include	
	For a continuous variable, any values that the limits should encompass (e.g. \emptyset). For a discrete scale, manipulate the data instead with forcats::fct_expand.	
x_label, y_label	l, col_label	
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.	
x_labels, y_labe	els, col_labels, facet_labels	
	A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).	
x_position, y_po	osition	
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".	
x_sec_axis, y_se	ec_axis	
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().	
x_symmetric,y_s	symmetric	
	TRUE or FALSE of whether a symmetric scale.	
x_transform, y_transform, col_transform		
	For a continuous scale, a transformation object (e.g. scales::transform_log10()) or character string of this minus the transform_ prefix (e.g. "log10").	

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

A ggplot object.

Examples

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

set_blanket()

faithful |>

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

gg_errorbar

Errorbar ggplot

Description

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

Usage

```
gg_errorbar(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
 xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
 yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
 mapping = NULL,
```

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

Arguments

data	A data frame or tibble.
	Other arguments passed to within a params list in layer().
stat	A statistical transformation to use on the data. A snakecase character string of a gpproto Stat subclass object minus the Stat prefix (e.g. "identity").
position	A position adjustment. A snakecase character string of a ggproto Position sub- class object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
coord	A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orientati	on
	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line	_rm
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_tick	
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_gri	
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
x, xmin, xmax, x subgroup, label,	end, y, ymin, ymax, yend, z, col, facet, facet2, group, 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_brea	
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
-	eaks_n, col_breaks_n
	A number of desired breaks for when *_breaks = NULL.
x_expand, y_expa	Padding to the limits with the ggplot2::expansion() function, or a vector of
	length 2 (e.g. $c(0, 0)$).
	e, y_limits_include, col_limits_include
	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_label	
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.

<pre>x_labels, y_labe</pre>	els, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. (x) stringr::str_to_sentence(x)
	or scales::label_*()), or a vector of labels. (Note this must be named for
	facet_labels).
x_position, y_pc	
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using
	y_position = "top" with a *_theme_* theme, add caption = "" or caption = " \n ".
<pre>x_sec_axis, y_se</pre>	ec_axis
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric,y_s	
	TRUE or FALSE of whether a symmetric scale.
x_transform, y_t	ransform, 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_drop, facet_	drop
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol	.,col_legend_nrow
	The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
col_palette	A character vector of hex codes (or names) or a scales::pal_*() function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a scales::rescale() function.
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults
	to FALSE.
facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or
	"all_y". Sometimes + *_theme_*() may be needed.
<pre>facet_axis_labe</pre>	els
	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or
-	facet2) argument is provided, then defaults to "wrap". If NULL and both facet
	and facet2 arguments are provided, defaults to "grid".
facet_ncol, face	et_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 direc-
	tions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
facet_space	When the facet scales are <i>not</i> "fixed", whether facet space should be "fixed"
	across facets, "free" to be proportional in both directions, or free to be propor-
	tional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
label_case	A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
library(palmerpenguins)
set_blanket()
data.frame(
  trt = factor(c(1, 1, 2, 2)),
  resp = c(1, 5, 3, 4),
  group = factor(c(1, 2, 1, 2)),
  upper = c(1.1, 5.3, 3.3, 4.2),
  lower = c(0.8, 4.6, 2.4, 3.6)
) |>
  gg_errorbar(
   x = trt,
   ymin = lower,
   ymax = upper,
   col = group,
   width = 0.1,
   x_label = "Treatment",
   y_label = "Response",
  )
```

gg_freqpoly

Freqpoly ggplot

Description

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

Usage

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

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

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

Arguments

data	A data frame or tibble.
	Other arguments passed to within a params list in 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orientati	on
	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line	e_rm
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_tick	ks_rm
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_gri	d_rm TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").

x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group,		
subgroup, label, text, sample		
	An unquoted aesthetic variable.	
mapping	A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.	
x_breaks, y_brea	aks, col_breaks	
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.	
x_breaks_n, y_br	reaks_n, col_breaks_n	
	A number of desired breaks for when *_breaks = NULL.	
x_expand, y_expa	and	
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. $c(0, 0)$).	
x_limits_includ	de,y_limits_include,col_limits_include	
	For a continuous variable, any values that the limits should encompass (e.g. \emptyset). For a discrete scale, manipulate the data instead with forcats::fct_expand.	
x_label, y_label		
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no	
v labels v labe	title. els, col_labels, facet_labels	
x_tabets, y_tabe		
	A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).	
x_position,y_po	,	
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".	
x_sec_axis, y_se		
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().	
x_symmetric,y_s		
	TRUE or FALSE of whether a symmetric scale.	
x_transform, y_1	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_drop, facet_	_drop	
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.	
col_legend_ncol	l, col_legend_nrow The number of columns and rows in a legend guide.	
col logond row		
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.	
col_palette	A character vector of hex codes (or names) or a scales::pal_*() function.	
col_palette_na	A hex code (or name) for the colour of NA values.	
col_rescale	For a continuous variable, a scales::rescale() function.	
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.	

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

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
library(palmerpenguins)
set_blanket()
penguins |>
  gg_freqpoly(
    x = flipper_length_mm,
    col = sex,
    )
```
gg_function

Description

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

```
gg_function(
  data = NULL,
  ...,
  stat = "function",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
 yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_limits_include = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
```

gg_function

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

```
)
```

Arguments

data	A data frame or tibble.
•••	Other arguments passed to within a params list in 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orientat:	ion
	The orientation of plot, which affects the theme components that are removed. Either " x " or " y ".
theme_axis_line	e_rm
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_tic	ks_rm
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_gr:	id_rm
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
x, xmin, xmax, x subgroup, label,	kend, y, ymin, ymax, yend, z, col, facet, facet2, group, 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_brea	aks, col_breaks
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y_b	reaks_n, col_breaks_n
	A number of desired breaks for when *_breaks = NULL.
x_expand, y_expa	
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).
x_limits_inclue	de,y_limits_include,col_limits_include
	For a continuous variable, any values that the limits should encompass (e.g. 0).
	For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_label	
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no
v labole v lab	title. els, col_labels, facet_labels
X_IADEIS, Y_IADO	A function that takes the breaks as inputs (e.g. (x) stringr::str_to_sentence(x)
	or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position, y_po	
, , _	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using
	y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".

x_sec_axis, y_se	ec_axis
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric,y_s	
	TRUE or FALSE of whether a symmetric scale.
x_transform, y_1	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_drop, facet_	_drop
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol	l, col_legend_nrow
	The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
col_palette	A character vector of hex codes (or names) or a scales::pal_*() function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a scales::rescale() function.
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_theme_*() may be needed.
<pre>facet_axis_labe</pre>	els
	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
facet_ncol, face	et_nrow
	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
facet_scales	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
facet_space	When the facet scales are <i>not</i> "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
label_case	A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

gg_hex

Examples

```
library(ggplot2)
library(dplyr)
set_blanket()
gg_function(
  fun = \(x) dnorm(x, mean = 0, sd = 5),
    x_limits_include = qnorm(p = c(0.005, 0.995), mean = 0, sd = 5),
    y_limits_include = 0,
)
```

gg_hex

```
Hex ggplot
```

Description

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

```
gg_hex(
 data = NULL,
  ...,
  stat = "binhex",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
```

gg_hex

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

gg_hex

```
title = NULL,
subtitle = NULL,
caption = NULL,
label_case = NULL
)
```

Arguments

data	A data frame or tibble.
	Other arguments passed to within a params list in 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orienta	ition
	The orientation of plot, which affects the theme components that are removed. Either " x " or " y ".
theme_axis_li	ne_rm
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ti	.cks_rm
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_g	;rid_rm
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
	xend, y, ymin, ymax, yend, z, col, facet, facet2, group, l,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_br	reaks, col_breaks
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y_	breaks_n, col_breaks_n
x_expand, y_ex	A number of desired breaks for when *_breaks = NULL.
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. $c(0, 0)$).

x_limits_includ	le, y_limits_include, col_limits_include
	For a continuous variable, any values that the limits should encompass (e.g. 0).
	For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_label	
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.
x_labels, y_labe	ls, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. (x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position, y_po	sition
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".
x_sec_axis, y_se	
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric,y_s	-
	TRUE or FALSE of whether a symmetric scale.
x_transform, y_t	ransform, 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_drop, facet_	
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol	., col_legend_nrow The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
col_palette	A character vector of hex codes (or names) or a scales::pal_*() function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a scales::rescale() function.
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_theme_*() may be needed.
facet_axis_labe	
	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
facet_ncol, face	
	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 direc- tions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
library(palmerpenguins)
set_blanket()
diamonds |>
  gg_hex(
    x = carat,
    y = price,
    )
```

gg_histogram

Histogram ggplot

Description

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

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

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

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

Arguments

data	A data frame or tibble.
	Other arguments passed to within a params list in 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orientati	ion
	The orientation of plot, which affects the theme components that are removed. Either " x " or " y ".
theme_axis_line	e_rm
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_tic	ks_rm
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_gri	id_rm
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").

	xend, y, ymin, ymax, yend, z, col, facet, facet2, group,
subgroup, label,	•
	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_brea	aks, col_breaks
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y_br	reaks_n, col_breaks_n
	A number of desired breaks for when *_breaks = NULL.
x_expand, y_expa	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).
x_limits_includ	<pre>de, y_limits_include, col_limits_include</pre>
	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_label	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.
x_labels, y_labe	els, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position, y_po	osition
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".
x_sec_axis, y_se	ec_axis
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric, y_s	symmetric
	TRUE or FALSE of whether a symmetric scale.
x_transform, y_t	ransform, 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_drop, facet_	
col_legend_ncol	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
	The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
col_palette	A character vector of hex codes (or names) or a scales::pal_*() function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a scales::rescale() function.
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.

facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_theme_*() may be needed.
facet_axis_labe	els
	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
facet_ncol, face	et_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 direc- tions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
facet_space	When the facet scales are <i>not</i> "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
label_case	A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
library(palmerpenguins)
set_blanket()
penguins |>
  gg_histogram(
    x = flipper_length_mm,
    col = sex,
    bins = 50,
)
```

gg_jitter

Description

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

```
gg_jitter(
  data = NULL,
  ...,
  stat = "identity",
  position = "jitter",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
 yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_limits_include = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
```

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

)

Arguments

data	A data frame or tibble.
	Other arguments passed to within a params list in 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orientat	tion
	The orientation of plot, which affects the theme components that are removed. Either " x " or " y ".
theme_axis_lir	ne_rm
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_tic	
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_gr	rid_rm
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
x, xmin, xmax, subgroup,label	
	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_bre	eaks, col_breaks
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y_b	preaks_n, col_breaks_n
	A number of desired breaks for when *_breaks = NULL.
x_expand, y_exp	
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. $c(0, 0)$).
x_limits_inclu	ude, y_limits_include, col_limits_include
	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_labe	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no
v labels v lab	title. bels, col_labels, facet_labels
∧_1abe13, y_1a	A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position, y_p	
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".

gg_jitter

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
library(palmerpenguins)
set_blanket()
set.seed(123)
penguins |>
  gg_jitter(
    x = species,
    y = body_mass_g,
    col = flipper_length_mm,
    position = position_jitter(height = 0),
    y_limits_include = 0,
    col_steps = TRUE,
    )
```

gg_label

Label ggplot

Description

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

Usage

```
gg_label(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
```

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

```
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_case = NULL
```

Arguments

data	A data frame or tibble.
	Other arguments passed to within a params list in 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orientati	on
	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line	?_rm
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_tick	(s_rm
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_gri	.d_rm
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
x, xmin, xmax, x subgroup,label,	
	An unquoted aesthetic variable.
mapping	A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.

x_breaks, y_breaks, col_breaks A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks. x_breaks_n, y_breaks_n, col_breaks_n A number of desired breaks for when *_breaks = NULL. x_expand, y_expand Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)). x_limits_include, y_limits_include, col_limits_include For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand. x_label, y_label, col_label Label for the axis or legend title. Use + ggplot2::labs(... = NULL) for no title. x_labels, y_labels, col_labels, facet_labels A function that takes the breaks as inputs (e.g. (x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels). x_position, y_position The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "∖n". x_sec_axis, y_sec_axis A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis(). x_symmetric, y_symmetric TRUE or FALSE of whether a symmetric scale. x_transform, y_transform, col_transform For a continuous scale, a transformation object (e.g. scales::transform_log10()) or character string of this minus the transform_ prefix (e.g. "log10").

col_drop, facet_drop

For a discrete variable, FALSE or TRUE of whether to drop unused levels.

col_legend_ncol, col_legend_nrow

The number of columns and rows in a legend guide.

- col_legend_rev TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
- col_palette A character vector of hex codes (or names) or a scales::pal_*() function.
- col_palette_na A hex code (or name) for the colour of NA values.

col_rescale For a continuous variable, a scales::rescale() function.

- col_steps For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
- facet_axes Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_theme_*() may be needed.

facet_axis_labels

Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
set_blanket()
bind_rows(
  mtcars |> slice_min(order_by = mpg),
  mtcars |> slice_max(order_by = mpg)
) |>
  tibble::rownames_to_column("themel") |>
  gg_label(
   x = themel,
   y = mpg,
   label = themel,
   y_limits_include = 0,
   y_label = "Miles per gallon",
   col_palette = c(orange, "white", teal),
  )
```

gg_line

Description

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

```
gg_line(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_limits_include = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
```

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

)

Arguments

data	A data frame or tibble.
•••	Other arguments passed to within a params list in 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orientat	ion
	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_lin	e_rm
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_tic	
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_gr	
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
x, xmin, xmax, subgroup,label	
	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_bre	aks, col_breaks
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y_b	reaks_n, col_breaks_n
x_expand, y_exp	
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. $c(0, 0)$).
x_limits_inclu	de,y_limits_include,col_limits_include
	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_labe	
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.
x_labels, y_lab	els, col_labels, facet_labels A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position,y_p	
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".

x_sec_axis, y_se	ec_axis
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric,y_s	
	TRUE or FALSE of whether a symmetric scale.
x_transform, y_t	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_drop, facet_	_drop
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol	l, col_legend_nrow
	The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
col_palette	A character vector of hex codes (or names) or a scales::pal_*() function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a scales::rescale() function.
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_theme_*() may be needed.
<pre>facet_axis_labe</pre>	els
	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
facet_ncol, face	et_nrow
	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".
facet_scales	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
facet_space	When the facet scales are <i>not</i> "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
label_case	A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

gg_linerange

Examples

```
library(ggplot2)
library(dplyr)
set_blanket()
economics |>
  gg_line(
    x = date,
    y = unemploy,
    y_limits_include = 0,
    y_label = "Unemployment",
  )
```

gg_linerange Linerange ggplot

Description

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

```
gg_linerange(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
 ymax = NULL,
 yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
```

gg_linerange

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

gg_linerange

```
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_case = NULL
)
```

Arguments

data	A data frame or tibble.
	Other arguments passed to within a params list in 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orienta	ation
	The orientation of plot, which affects the theme components that are removed. Either " x " or " y ".
theme_axis_li	ine_rm
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ti	cks_rm
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_g	grid_rm
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
	, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, el, 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_br	reaks, col_breaks
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y_	_breaks_n, col_breaks_n
	A number of desired breaks for when \star _breaks = NULL.

x_expand, y_expa	and
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. $c(0, 0)$).
x_limits_incluc	 de, y_limits_include, col_limits_include For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_label	<pre>., col_label Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.</pre>
x_labels, y_labe	els, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position, y_po	
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".
x_sec_axis, y_se	ec_axis
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric, y_s	-
	TRUE or FALSE of whether a symmetric scale.
x_transform, y_t	cransform, 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").
<pre>col_drop, facet_</pre>	
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol	., col_legend_nrow The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
col_palette	A character vector of hex codes (or names) or a scales::pal_*() function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a scales::rescale() function.
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_theme_*() may be needed.
<pre>facet_axis_labe</pre>	bls
	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
facet_ncol, face	
	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

gg_path

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
set_blanket()
data.frame(
  trt = factor(c(1, 1, 2, 2)),
  resp = c(1, 5, 3, 4),
  group = factor(c(1, 2, 1, 2)),
  upper = c(1.1, 5.3, 3.3, 4.2),
  lower = c(0.8, 4.6, 2.4, 3.6)
) |>
  gg_linerange(
   x = trt,
   ymin = lower,
   ymax = upper,
   col = group,
   position = position_dodge(width = 0.2),
   x_label = "Treatment",
   y_label = "Response",
  )
```

gg_path

Path ggplot

Description

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

Usage

```
gg_path(
  data = NULL,
  . . . ,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_limits_include = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
  x_symmetric = NULL,
  x_transform = NULL,
  y_breaks = NULL,
  y_breaks_n = NULL,
  y_expand = NULL,
  y_limits_include = NULL,
  y_label = NULL,
  y_labels = NULL,
 y_position = "left",
```

gg_path

```
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_limits_include = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_case = NULL
```

Arguments

)

data	A data frame or tibble.	
	Other arguments passed to within a params list in 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()).	
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU	
theme_orientation		
	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".	

theme_axis_line	e_rm TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_tick	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_gri	d_rm TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
x, xmin, xmax, x subgroup, label,	end, y, ymin, ymax, yend, z, col, facet, facet2, group, 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_brea	<pre>ks, col_breaks A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.</pre>
x_breaks_n, y_br	eaks_n, col_breaks_n
	A number of desired breaks for when *_breaks = NULL.
x_expand, y_expa	nd
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. $c(0, 0)$).
x_limits_includ	le,y_limits_include,col_limits_include
	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_label	., col_label
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.
x_labels, y_labe	els, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position,y_po	
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".
<pre>x_sec_axis, y_se</pre>	
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric,y_s	ymmetric TRUE or FALSE of whether a symmetric scale.
x_transform, y_transform, col_transform	
	For a continuous scale, a transformation object (e.g. scales::transform_log10()) or character string of this minus the transform_ prefix (e.g. "log10").

gg_path

col_drop, facet_drop	
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol	., col_legend_nrow
	The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
col_palette	A character vector of hex codes (or names) or a scales::pal_*() function.
<pre>col_palette_na</pre>	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a scales::rescale() function.
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_theme_*() may be needed.
<pre>facet_axis_labe</pre>	ls
	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
facet_ncol, face	t_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 direc-
	tions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
facet_space	When the facet scales are not "fixed", whether facet space should be "fixed"
	across facets, "free" to be proportional in both directions, or free to be propor-
	tional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
label_case	A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

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

set_blanket()

```
economics |>
  mutate(unemploy_rate = unemploy / pop) |>
```

```
gg_path(
  x = unemploy_rate,
  y = psavert,
  x_label = "Unemployment rate",
  y_limits_include = 0,
  y_label = "Personal savings rate",
)
```

gg_point

Point ggplot

Description

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

Usage

```
gg_point(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
 yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
```
gg_point

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

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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orientat	
	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_lin	
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_tic	
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_gr	id_rm
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
x, xmin, xmax, x subgroup,label	xend, y, ymin, ymax, yend, z, col, facet, facet2, group, ,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_bre	
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of
x_breaks_n, y_b	breaks. reaks_n, col_breaks_n
y avpand y avp	A number of desired breaks for when *_breaks = NULL.
x_expand, y_exp	Padding to the limits with the ggplot2::expansion() function, or a vector of
	length 2 (e.g. $c(0, 0)$).
x_limits_inclu	de,y_limits_include,col_limits_include
	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_labe	
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.

x_labels, y_labe	ls, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. (x) stringr::str_to_sentence(x)
	or scales::label_*()), or a vector of labels. (Note this must be named for
	facet_labels).
x_position, y_po	
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using
	<pre>y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".</pre>
x_sec_axis, y_se	
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric,y_s	
	TRUE or FALSE of whether a symmetric scale.
x_transform, y_t	ransform, col_transform
	For a continuous scale, a transformation object (e.g. scales::transform_log10())
col_drop, facet_	or character string of this minus the transform_ prefix (e.g. "log10").
cor_urop, racet_	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col legend ncol	, col_legend_nrow
cor_regend_neor	The number of columns and rows in a legend guide.
col legend rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to
-	FALSE.
col_palette	A character vector of hex codes (or names) or a scales::pal_*() function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a scales::rescale() function.
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_theme_*() may be needed.
<pre>facet_axis_labe</pre>	ls
	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or
	facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
facet_ncol, face	t_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 direc-
	tions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
facet_space	When the facet scales are not "fixed", whether facet space should be "fixed"
	across facets, "free" to be proportional in both directions, or free to be propor- tional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
label_case	A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
library(palmerpenguins)
set_blanket()
penguins |>
  gg_point(
    x = flipper_length_mm,
    y = body_mass_g,
    col = species,
    )
```

gg_pointrange

Pointrange ggplot

Description

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

Usage

```
gg_pointrange(
  data = NULL,
  . . . ,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
```

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

```
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_case = NULL
```

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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orientati	lon
	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line	
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_tick	<s_rm< td=""></s_rm<>
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_gri	id_rm
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
x, xmin, xmax, x subgroup, label,	xend, y, ymin, ymax, yend, z, col, facet, facet2, group, 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_brea	
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.

x_breaks_n, y_br	eaks_n, col_breaks_n
	A number of desired breaks for when \star _breaks = NULL.
x_expand, y_expa	
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).
x_limits_includ	e,y_limits_include,col_limits_include
	For a continuous variable, any values that the limits should encompass (e.g. \emptyset). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_label	, col_label
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.
x_labels, y_labe	ls, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. (x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position, y_po	
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".
x_sec_axis, y_se	c_axis
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric,y_s	
	TRUE or FALSE of whether a symmetric scale.
x_transform, y_t	ransform, 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_drop, facet_	
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol	, col_legend_nrow The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
col_palette	A character vector of hex codes (or names) or a scales::pal_*() function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a scales::rescale() function.
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_theme_*() may be needed.
<pre>facet_axis_labe</pre>	ls
	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".

facet_ncol, face	et_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 direc- tions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
facet_space	When the facet scales are <i>not</i> "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
label_case	A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
set_blanket()
data.frame(
  trt = factor(c(1, 1, 2, 2)),
  resp = c(1, 5, 3, 4),
  group = factor(c(1, 2, 1, 2)),
  upper = c(1.1, 5.3, 3.3, 4.2),
  lower = c(0.8, 4.6, 2.4, 3.6)
) |>
  gg_pointrange(
   x = trt,
   y = resp,
   col = group,
   ymin = lower,
   ymax = upper,
   position = position_dodge(width = 0.2),
   x_label = "Treatment",
   y_label = "Response",
  )
```

gg_polygon

Description

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

```
gg_polygon(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
 yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_limits_include = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
```

gg_polygon

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

)

Arguments

data	A data frame or tibble.
•••	Other arguments passed to within a params list in 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orientati	ion
	The orientation of plot, which affects the theme components that are removed. Either " x " or " y ".
theme_axis_line	e_rm
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_tick	<s_rm< td=""></s_rm<>
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_gri	id_rm
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
x, xmin, xmax, x	kend, 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_brea	
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of
x_breaks_n, y_br	breaks. reaks_n, col_breaks_n
	A number of desired breaks for when *_breaks = NULL.
x_expand, y_expa	and
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. $c(0, 0)$).
x_limits_incluc	de,y_limits_include,col_limits_include
	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_label	
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.
x_labels, y_labe	els, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position,y_po	
~_postcion, y_po	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using
	y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".

x_sec_axis, y_sec_axis		
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().	
x_symmetric,y_s		
_	TRUE or FALSE of whether a symmetric scale.	
x_transform, y_1	<pre>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").</pre>	
col_drop, facet_		
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.	
col_legend_ncol	l, col_legend_nrow	
	The number of columns and rows in a legend guide.	
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.	
col_palette	A character vector of hex codes (or names) or a scales::pal_*() function.	
col_palette_na	A hex code (or name) for the colour of NA values.	
col_rescale	For a continuous variable, a scales::rescale() function.	
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.	
facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_theme_*() may be needed.	
<pre>facet_axis_labe</pre>	els	
	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".	
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".	
facet_ncol, face		
	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".	
facet_scales	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".	
facet_space	When the facet scales are <i>not</i> "fixed", whether facet space should be "fixed" across facets, "free" to be proportional in both directions, or free to be proportional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".	
title	Title string.	
subtitle	Subtitle string.	
caption	Caption title string.	
label_case	A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.	

A ggplot object.

gg_qq

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(</pre>
  id = ids,
  value = c(3, 3.1, 3.1, 3.2, 3.15, 3.5)
)
positions <- data.frame(</pre>
  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"))</pre>
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().

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

```
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```

```
position = "identity",
coord = ggplot2::coord_cartesian(clip = "off"),
theme = NULL,
theme_orientation = NULL,
theme_axis_line_rm = NULL,
theme_axis_ticks_rm = NULL,
theme_panel_grid_rm = NULL,
blend = NULL,
x = NULL,
xmin = NULL,
xmax = NULL,
xend = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_limits_include = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_limits_include = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
```

```
col_drop = FALSE,
col_limits_include = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_case = NULL
```

)

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 gpproto Stat subclass object minus the Stat prefix (e.g. "identity").	
position	A position adjustment. A snakecase character string of a ggproto Position sub- class object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).	
coord	A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).	
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU	
theme_orientation		
	The orientation of plot, which affects the theme components that are removed. Either " x " or " y ".	
theme_axis_line	e_rm TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.	

theme_axis_tick	s_rm
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_gri	d_rm
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
x, xmin, xmax, x	end, 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_brea	ks, col_breaks
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y_br	eaks_n, col_breaks_n
	A number of desired breaks for when *_breaks = NULL.
x_expand, y_expa	
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. $c(0, 0)$).
x_limits_includ	e,y_limits_include,col_limits_include
	For a continuous variable, any values that the limits should encompass (e.g. ϑ). For a discrete scale, manipulate the data instead with forcats::fct_expand.
<pre>x_label, y_label</pre>	,col_label
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.
<pre>x_labels, y_labe</pre>	ls, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
<pre>x_position, y_po</pre>	
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using
	y_position = "top" with a \pm theme_ \pm theme, add caption = "" or caption = "\n".
<pre>x_sec_axis, y_se</pre>	
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric,y_s	•
	TRUE or FALSE of whether a symmetric scale.
x_transform, y_t	ransform, 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").
<pre>col_drop, facet_</pre>	drop
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
<pre>col_legend_ncol</pre>	, col_legend_nrow
	The number of columns and rows in a legend guide.

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

A ggplot object.

geom_qq_line()

Examples

```
library(ggplot2)
library(dplyr)
library(palmerpenguins)
set_blanket()
penguins |>
  gg_qq(
    sample = body_mass_g,
    facet = species,
    coord = coord_cartesian(clip = "on"),
    ) +
```

gg_quantile

Description

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

```
gg_quantile(
  data = NULL,
  ...,
  stat = "quantile",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
 yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_limits_include = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
```

gg_quantile

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

Arguments

)

data	A data frame or tibble.
	Other arguments passed to within a params list in 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orientati	-
	The orientation of plot, which affects the theme components that are removed. Either " x " or " y ".
theme_axis_line	
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_tick	
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_gri	
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
x, xmin, xmax, x subgroup,label,	
	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_brea	aks, col_breaks
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y_br	reaks_n, col_breaks_n
v aveand v avea	A number of desired breaks for when *_breaks = NULL.
x_expand, y_expa	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. $c(0, 0)$).
x_limits_includ	<pre>de, y_limits_include, col_limits_include</pre>
	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_label	
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.
x_labels, y_labe	els, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position, y_pc	osition
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".

gg_quantile

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

Value

A ggplot object.

Examples

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

gg_raster Raster ggplot

Description

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

Usage

```
gg_raster(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
 ymax = NULL,
 yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
```

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

```
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_case = NULL
)
```

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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orien	tation
	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_	
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_	
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel	_grid_rm
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
	x, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, pel,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_l	preaks, col_breaks
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n,	y_breaks_n, col_breaks_n
	A number of desired breaks for when *_breaks = NULL.

gg_raster

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

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

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().

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

gg_rect

```
theme_axis_line_rm = NULL,
theme_axis_ticks_rm = NULL,
theme_panel_grid_rm = NULL,
blend = NULL,
x = NULL,
xmin = NULL,
xmax = NULL,
xend = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_limits_include = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_limits_include = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_limits_include = NULL,
col_label = NULL,
col_labels = NULL,
```

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

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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that includes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orientati	on
	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line	e_rm
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_tick	ks_rm
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.

gg_rect

theme_panel_gri	
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
x, xmin, xmax, x	end, 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_brea	ks, col_breaks
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y_br	eaks_n, col_breaks_n
	A number of desired breaks for when *_breaks = NULL.
x_expand, y_expa	
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. $c(0, 0)$).
x_limits_includ	e,y_limits_include,col_limits_include
	For a continuous variable, any values that the limits should encompass (e.g. \emptyset). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label,y_label	
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.
x_labels,y_labe	ls, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position,y_po	sition
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".
x_sec_axis, y_se	c_axis
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric,y_s	ymmetric
	TRUE or FALSE of whether a symmetric scale.
x_transform,y_t	ransform, 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_drop, facet_	drop
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol	,col_legend_nrow
	The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

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

A ggplot object.

Examples

```
library(gplot2)
library(dplyr)
set_blanket()
data.frame(
    x = rep(c(2, 5, 7, 9, 12), 2),
    y = rep(c(1, 2), each = 5),
    z = factor(c(rep(1:4, each = 2), 5, NA)),
    w = rep(diff(c(0, 4, 6, 8, 10, 14)), 2)
) |>
    mutate(
        xmin = x - w / 2,
        xmax = x + w / 2,
```

gg_ribbon

```
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()

```
gg_ribbon(
  data = NULL,
  . . . ,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
 blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
 y = NULL,
  ymin = NULL,
 ymax = NULL,
 yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
```

gg_ribbon

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

```
caption = NULL,
label_case = NULL
)
```

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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orientat	ion
	The orientation of plot, which affects the theme components that are removed. Either " x " or " y ".
theme_axis_lin	e_rm
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_tic	ks_rm
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_gr	id_rm
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
x, xmin, xmax, subgroup,label	xend, y, ymin, ymax, yend, z, col, facet, facet2, group, ,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_bre	aks, col_breaks
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y_b	reaks_n, col_breaks_n
	A number of desired breaks for when *_breaks = NULL.
x_expand, y_exp	
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. $c(0, 0)$).

x_limits_includ	le, y_limits_include, col_limits_include
	For a continuous variable, any values that the limits should encompass (e.g. 0).
	For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_label	
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.
x_labels, y_labe	els, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. (x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position, y_pc	osition
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".
x_sec_axis, y_se	
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric,y_s	
	TRUE or FALSE of whether a symmetric scale.
x_transform, y_t	ransform, 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_drop, facet_	
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol	, col_legend_nrow
	The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
col_palette	A character vector of hex codes (or names) or a scales::pal_*() function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a scales::rescale() function.
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_theme_*() may be needed.
facet_axis_labe	els
	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
facet_ncol, face	
	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 direc- tions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

gg_rug

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
set_blanket()
data.frame(year = 1875:1972, level = as.vector(LakeHuron)) |>
  mutate(level_min = level - 1, level_max = level + 1) |>
  gg_ribbon(
    x = year,
    ymin = level_min,
    ymax = level_max,
    x_labels = \(x) x,
  )
```

gg_rug

Rug ggplot

Description

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

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

theme_axis_ticks_rm = NULL, theme_panel_grid_rm = NULL, blend = NULL, x = NULL, xmin = NULL, xmax = NULL, xend = NULL, y = NULL, ymin = NULL, ymax = NULL, yend = NULL, z = NULL, col = NULL, facet = NULL, facet2 = NULL, group = NULL, subgroup = NULL, label = NULL, text = NULL, sample = NULL, mapping = NULL, x_breaks = NULL, x_breaks_n = NULL, $x_expand = NULL$, x_limits_include = NULL, $x_label = NULL$, x_labels = NULL, x_position = "bottom", x_sec_axis = ggplot2::waiver(), x_symmetric = NULL, x_transform = NULL, y_breaks = NULL, y_breaks_n = NULL, y_expand = NULL, y_limits_include = NULL, $y_label = NULL$, $y_{labels} = NULL,$ y_position = "left", y_sec_axis = ggplot2::waiver(), y_symmetric = NULL, y_transform = NULL, col_breaks = NULL, $col_breaks_n = 5$, col_drop = FALSE, col_limits_include = NULL, col_label = NULL, col_labels = NULL, col_legend_ncol = NULL,
gg_rug

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

Arguments

)

data	A data frame or tibble.
	Other arguments passed to within a params list in layer().
stat	A statistical transformation to use on the data. A snakecase character string of a gpproto Stat subclass object minus the Stat prefix (e.g. "identity").
position	A position adjustment. A snakecase character string of a ggproto Position sub- class object minus the Position prefix (e.g. "identity"), or a position_*() function that outputs a ggproto Position subclass object (e.g. ggplot2::position_identity()).
coord	A coordinate system. A coord_*() function that outputs a constructed ggproto Coord subclass object (e.g. ggplot2::coord_cartesian()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orientat	ion
	The orientation of plot, which affects the theme components that are removed. Either " x " or " y ".
theme_axis_lir	ie_rm
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_tic	ks_rm
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_gr	id_rm
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.

blend	The blending mode per ggblend::blend() (e.g. "multiply").
x, xmin, xmax, x subgroup, label,	end, y, ymin, ymax, yend, z, col, facet, facet2, group, text.sample
50551 005, 10501,	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_brea	
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y_br	reaks_n, col_breaks_n
	A number of desired breaks for when *_breaks = NULL.
x_expand, y_expa	
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. $c(0, 0)$).
x_limits_incluc	<pre>le, y_limits_include, col_limits_include</pre>
	For a continuous variable, any values that the limits should encompass (e.g. \emptyset). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_label	., col_label
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.
x_labels, y_labe	els, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position, y_po	osition
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".
x_sec_axis, y_se	ec_axis
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric, y_s	-
	TRUE or FALSE of whether a symmetric scale.
x_transform, y_t	ransform, 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_drop, facet_	
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol	., col_legend_nrow
	The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
col_palette	A character vector of hex codes (or names) or a scales::pal_*() function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a scales::rescale() function.

gg_rug

col_steps

facet_axes

For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_theme_*() may be needed.
ls Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet 2) argument is provided then defaults to "wrap". If NULL and both facet

facet_layout Whether the layout 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

facet_axis_labels

The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

- Whether facet scales should be "fixed" across facets, "free" in both direcfacet_scales tions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
- facet_space When the 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.

A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case. label_case

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
library(palmerpenguins)
set_blanket()
penguins |>
  gg_rug(
   x = flipper_length_mm,
   y = body_mass_g,
   col = species,
  )
```

gg_segment

Description

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

Usage

```
gg_segment(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
 yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
  mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
  x_expand = NULL,
  x_limits_include = NULL,
  x_label = NULL,
  x_labels = NULL,
  x_position = "bottom",
  x_sec_axis = ggplot2::waiver(),
```

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

```
)
```

Arguments

data	A data frame or tibble.
	Other arguments passed to within a params list in 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orientati	ion
	The orientation of plot, which affects the theme components that are removed. Either " x " or " y ".
theme_axis_line	e_rm
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_tick	
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_gri	
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
x, xmin, xmax, x subgroup,label,	
	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_brea	aks, col_breaks
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y_br	reaks_n, col_breaks_n
v aveand v ave	A number of desired breaks for when *_breaks = NULL.
x_expand, y_expa	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).
x limits includ	de, y_limits_include, col_limits_include
	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_label	l, col_label Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no
	title.
x_labels, y_labe	els, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position, y_po	
. ,	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".

gg_segment

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
library(palmerpenguins)
set_blanket()
data.frame(x1 = 2.62, x2 = 3.57, y1 = 21.0, y2 = 15.0) |>
  gg_segment(
    x = x1,
    xend = x2,
    y = y1,
    yend = y2,
    )
```

gg_sf

Sf ggplot

Description

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

Usage

```
gg_sf(
  data = NULL,
  . . . ,
  stat = "sf",
  position = "identity",
  coord = ggplot2::coord_sf(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
```

gg_sf

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

```
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_case = NULL
)
```

Arguments

data	A data frame or tibble.
	Other arguments passed to within a params list in 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orient	cation
	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_]	ine_rm
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_t	cicks_rm
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_	grid_rm
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
	x, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, pel,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_b	preaks, col_breaks
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y	/_breaks_n, col_breaks_n
	A number of desired breaks for when *_breaks = NULL.

gg_sf

x_expand, y_expa	nd	
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. $c(0, 0)$).	
x limits includ	e, y_limits_include, col_limits_include	
	For a continuous variable, any values that the limits should encompass (e.g. 0).	
	For a discrete scale, manipulate the data instead with forcats::fct_expand.	
x_label, y_label		
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.	
x labels.v labe	ls, col_labels, facet_labels	
_ /3_	A function that takes the breaks as inputs (e.g. (x) stringr::str_to_sentence(x)	
	or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).	
x_position,y_po	sition	
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".	
x_sec_axis,y_se	c_axis	
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().	
x_symmetric,y_s	ymmetric	
	TRUE or FALSE of whether a symmetric scale.	
x_transform,y_t	ransform, 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_drop,facet_	drop	
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.	
col_legend_ncol	,col_legend_nrow	
	The number of columns and rows in a legend guide.	
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.	
col_palette	A character vector of hex codes (or names) or a scales::pal_*() function.	
col_palette_na	A hex code (or name) for the colour of NA values.	
col_rescale	For a continuous variable, a scales::rescale() function.	
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.	
facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_theme_*() may be needed.	
facet_axis_labe	ls	
	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".	
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".	
facet_ncol, facet_nrow		
	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".	

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
set_blanket()
if (requireNamespace("sf", quietly = TRUE)) {
  sf::st_read(system.file("shape/nc.shp", package = "sf")) |>
   gg_sf(
     col = AREA,
   )
}
```

gg_smooth

Smooth ggplot

Description

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

Usage

```
gg_smooth(
  data = NULL,
  . . . ,
  stat = "smooth",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
```

```
theme_axis_line_rm = NULL,
theme_axis_ticks_rm = NULL,
theme_panel_grid_rm = NULL,
blend = NULL,
x = NULL,
xmin = NULL,
xmax = NULL,
xend = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_limits_include = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_limits_include = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_limits_include = NULL,
col_label = NULL,
col_labels = NULL,
```

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

Arguments

data	A data frame or tibble.
	Other arguments passed to within a params list in 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orientati	lon
	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".
theme_axis_line	e_rm
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_tic	<pre>cs_rm TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.</pre>

gg_smooth

theme_panel_gri	d_rm
	\ensuremath{TRUE} or \ensuremath{FALSE} of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
x, xmin, xmax, x	end, y, ymin, ymax, yend, z, col, facet, facet2, group,
<pre>subgroup, label,</pre>	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_brea	ks, col_breaks
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y_br	eaks_n, col_breaks_n
	A number of desired breaks for when *_breaks = NULL.
x_expand, y_expa	
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. $c(0, 0)$).
x_limits_includ	e,y_limits_include,col_limits_include
	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_label	, col_label
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.
<pre>x_labels, y_labe</pre>	ls, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position, y_po	sition
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".
<pre>x_sec_axis, y_se</pre>	c_axis
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric, y_s	
	TRUE or FALSE of whether a symmetric scale.
x_transform, y_t	ransform, 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_drop, facet_	
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol	, col_legend_nrow
	The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
library(palmerpenguins)
set_blanket()
penguins |>
  gg_smooth(
    x = flipper_length_mm,
    y = body_mass_g,
    col = species,
    se = TRUE,
    blend = "multiply",
    )
```

gg_step

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

gg_step

Step ggplot

Description

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

Usage

```
gg_step(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
 yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
```

gg_step

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

gg_step

```
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_case = NULL
)
```

Arguments

data	A data frame or tibble.
	Other arguments passed to within a params list in 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orient	ation
	The orientation of plot, which affects the theme components that are removed. Either " x " or " y ".
theme_axis_l	
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_t	
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.
theme_panel_	-
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
	, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, el,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_b	reaks, col_breaks
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y	_breaks_n, col_breaks_n A number of desired breaks for when *_breaks = NULL.

x_expand, y_expa	nd
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. $c(0, 0)$).
x_limits_incluc	 le, y_limits_include, col_limits_include For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.
x_label, y_label	<pre>., col_label Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.</pre>
	els, col_labels, facet_labels A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position,y_po	<pre>sition The position of the axis (i.e. "left", "right", "bottom" or "top").If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".</pre>
x_sec_axis, y_se	c_axis A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric,y_s	ymmetric TRUE or FALSE of whether a symmetric scale.
x_transform, y_t	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_drop, facet_	
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol	., col_legend_nrow
	The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
col_palette	A character vector of hex codes (or names) or a scales::pal_*() function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a scales::rescale() function.
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults to FALSE.
facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or "all_y". Sometimes + *_theme_*() may be needed.
facet_axis_labe	ls
	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
facet_ncol, face	
	The number of columns and rows of facet panels. Only applies to a facet layout of "wrap".

gg_text

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
set_blanket()
economics |>
  filter(date > lubridate::ymd("2010-01-01")) |>
  gg_step(
    x = date,
    y = unemploy,
    y_limits_include = 0,
    y_label = "Unemployment",
  )
```

gg_text

Text ggplot

Description

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

Usage

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

```
theme = NULL,
theme_orientation = NULL,
theme_axis_line_rm = NULL,
theme_axis_ticks_rm = NULL,
theme_panel_grid_rm = NULL,
blend = NULL,
x = NULL,
xmin = NULL,
xmax = NULL,
xend = NULL,
y = NULL,
ymin = NULL,
ymax = NULL,
yend = NULL,
z = NULL,
col = NULL,
facet = NULL,
facet2 = NULL,
group = NULL,
subgroup = NULL,
label = NULL,
text = NULL,
sample = NULL,
mapping = NULL,
x_breaks = NULL,
x_breaks_n = NULL,
x_expand = NULL,
x_limits_include = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_limits_include = NULL,
y_label = NULL,
y_labels = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_limits_include = NULL,
```

gg_text

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

Arguments

)

data	A data frame or tibble.
	Other arguments passed to within a params list in 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()).
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU
theme_orientat:	ion
	The orientation of plot, which affects the theme components that are removed. Either " x " or " y ".
theme_axis_line	e_rm
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.
theme_axis_tic	<s_rm< td=""></s_rm<>
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.

theme_panel_gri	d_rm
	\ensuremath{TRUE} or \ensuremath{FALSE} of whether to remove the relevant panel grid per the theme_orientation of the plot.
blend	The blending mode per ggblend::blend() (e.g. "multiply").
x, xmin, xmax, x	end, y, ymin, ymax, yend, z, col, facet, facet2, group,
subgroup, label,	
	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_brea	ks, col_breaks
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
x_breaks_n, y_br	eaks_n, col_breaks_n
	A number of desired breaks for when *_breaks = NULL.
x_expand, y_expa	
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. $c(0, 0)$).
x_limits_includ	<pre>le, y_limits_include, col_limits_include</pre>
	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.
<pre>x_label, y_label</pre>	, col_label
	Label for the axis or legend title. Use + ggplot2::labs(= NULL) for no title.
x_labels, y_labe	ls, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position, y_po	sition
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".
x_sec_axis, y_se	
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric, y_s	ymmetric
	TRUE or FALSE of whether a symmetric scale.
x_transform, y_t	ransform, 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_drop, facet_	drop
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol	,col_legend_nrow
	The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.

gg_text

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

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("themel") |>
   gg_text(
        x = themel,
        y = mpg,
        label = themel,
```

```
y_limits_include = 0,
y_label = "Miles per gallon",
col_palette = c(orange, "white", teal),
)
```

gg_tile

Tile ggplot

Description

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

Usage

```
gg_tile(
  data = NULL,
  ...,
  stat = "identity",
  position = "identity",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
 yend = NULL,
  z = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  label = NULL,
  text = NULL,
  sample = NULL,
 mapping = NULL,
  x_breaks = NULL,
  x_breaks_n = NULL,
```

gg_tile

```
x_expand = NULL,
x_limits_include = NULL,
x_label = NULL,
x_labels = NULL,
x_position = "bottom",
x_sec_axis = ggplot2::waiver(),
x_symmetric = NULL,
x_transform = NULL,
y_breaks = NULL,
y_breaks_n = NULL,
y_expand = NULL,
y_limits_include = NULL,
y_label = NULL,
y_{labels} = NULL,
y_position = "left",
y_sec_axis = ggplot2::waiver(),
y_symmetric = NULL,
y_transform = NULL,
col_breaks = NULL,
col_breaks_n = 5,
col_drop = FALSE,
col_limits_include = NULL,
col_label = NULL,
col_labels = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_palette = NULL,
col_palette_na = NULL,
col_rescale = scales::rescale(),
col_steps = FALSE,
col_transform = NULL,
facet_axes = NULL,
facet_axis_labels = "margins",
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_case = NULL
```

```
)
```

Arguments

data	A data frame or tibble.	
	Other arguments passed to within a params list in 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()).	
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU	
theme_orientat		
	The orientation of plot, which affects the theme components that are removed. Either " x " or " y ".	
theme_axis_lin		
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.	
theme_axis_tic		
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.	
theme_panel_gr	id_rm	
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.	
blend	The blending mode per ggblend::blend() (e.g. "multiply").	
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample		
	An unquoted aesthetic variable.	
mapping	A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily	
	for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.	
x_breaks, y_bre	aks, col_breaks	
	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of	
x_breaks_n, y_b	breaks. reaks_n, col_breaks_n	
	A number of desired breaks for when *_breaks = NULL.	
x_expand, y_exp		
	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).	
x_limits_inclu	<pre>de, y_limits_include, col_limits_include</pre>	
	For a continuous variable, any values that the limits should encompass (e.g. 0). For a discrete scale, manipulate the data instead with forcats::fct_expand.	
x_label, y_labe		
	Label for the axis or legend title. Use $+$ ggplot2::labs(= NULL) for no	
	title.	

x_labels,y_labe	els, col_labels, facet_labels
	A function that takes the breaks as inputs (e.g. (x) stringr::str_to_sentence(x)
	or scales::label_*()), or a vector of labels. (Note this must be named for facet_labels).
x_position,y_pc	
	The position of the axis (i.e. "left", "right", "bottom" or "top"). If using
	<pre>y_position = "top" with a *_theme_* theme, add caption = "" or caption = "\n".</pre>
x_sec_axis,y_se	
	A secondary axis with ggplot2::dup_axis() or ggplot2::sec_axis().
x_symmetric,y_s	symmetric
	TRUE or FALSE of whether a symmetric scale.
x_transform,y_t	ransform, 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").
<pre>col_drop, facet_</pre>	
	For a discrete variable, FALSE or TRUE of whether to drop unused levels.
col_legend_ncol	., col_legend_nrow
	The number of columns and rows in a legend guide.
col_legend_rev	TRUE or FALSE of whether to reverse the elements of a legend guide. Defaults to FALSE.
col_palette	A character vector of hex codes (or names) or a scales::pal_*() function.
col_palette_na	A hex code (or name) for the colour of NA values.
col_rescale	For a continuous variable, a scales::rescale() function.
col_steps	For a continuous variable, TRUE or FALSE of whether to colour in steps. Defaults
	to FALSE.
facet_axes	Whether to add interior axes and ticks with "margins", "all", "all_x", or
	"all_y". Sometimes + *_theme_*() may be needed.
facet_axis_labe	
	Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".
facet_layout	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or
	facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
facet_ncol, face	
	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 direc-
	tions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
facet_space	When the facet scales are <i>not</i> "fixed", whether facet space should be "fixed"
	across facets, "free" to be proportional in both directions, or free to be propor-
	tional in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
title	Title string.
subtitle	Subtitle string.
caption	Caption title string.
label_case	A function to format the label of unlabelled variables. Defaults to snakecase::to_sentence_case.

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
library(palmerpenguins)
set_blanket()
penguins |>
 group_by(species, sex) |>
 summarise(across(flipper_length_mm, \(x) mean(x, na.rm = TRUE))) |>
 gg_tile(
    x = sex,
    y = species,
    col = flipper_length_mm,
    )
```

gg_violin

Violin ggplot

Description

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

Usage

```
gg_violin(
 data = NULL,
  . . . ,
  stat = "ydensity",
  position = "dodge",
  coord = ggplot2::coord_cartesian(clip = "off"),
  theme = NULL,
  theme_orientation = NULL,
  theme_axis_line_rm = NULL,
  theme_axis_ticks_rm = NULL,
  theme_panel_grid_rm = NULL,
  blend = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  xend = NULL,
  y = NULL,
  ymin = NULL,
```

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

```
facet_drop = FALSE,
facet_labels = NULL,
facet_layout = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
title = NULL,
subtitle = NULL,
caption = NULL,
label_case = NULL
```

Arguments

data	A data frame or tibble.	
	Other arguments passed to within a params list in 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()).	
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()). (Or a list that in- cludes 1. a theme and 2. a ggplot2::labs() function. E.g. list(light_mode_r(), labs(colour = NU	
theme_orientat		
	The orientation of plot, which affects the theme components that are removed. Either "x" or "y".	
theme_axis_lin	e_rm	
	TRUE or FALSE of whether to remove the relevant axis line per the theme_orientation of the plot.	
theme_axis_ticks_rm		
	TRUE or FALSE of whether to remove the relevant axis ticks per the theme_orientation of the plot.	
theme_panel_gr		
	TRUE or FALSE of whether to remove the relevant panel grid per the theme_orientation of the plot.	
blend	The blending mode per ggblend::blend() (e.g. "multiply").	
x, xmin, xmax, xend, y, ymin, ymax, yend, z, col, facet, facet2, group, subgroup, label, text, sample		
	An unquoted aesthetic variable.	
mapping	A set of additional aesthetic mappings in ggplot2::aes(). Intended primarily for non-supported aesthetics (e.g. shape, linetype, linewidth, or size), but can also be used for delayed evaluation etc.	

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

Whether to add interior axis labels with "margins", "all", "all_x", or "all_y".

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

Value

A ggplot object.

Examples

```
library(ggplot2)
library(dplyr)
library(palmerpenguins)
set_blanket()
penguins |>
tidyr::drop_na(sex) |>
```

```
gg_violin(
    x = species,
    y = body_mass_g,
    col = sex,
)
```

grey

A grey colour

Description

A grey colour.

guides_shape_grey

Usage

grey

Value

A character vector.

Examples

scales::show_col(grey)

guides_shape_grey Guides for legend element colour

Description

Guides to over-ride legend elements with a grey colour

- guides_shape_grey() for shape
- guides_linewidth_grey() for linewidth
- guides_size_grey() for size.

Usage

```
guides_shape_grey(colour = grey, ...)
```

```
guides_linewidth_grey(colour = grey, ...)
```

```
guides_size_grey(colour = grey, ...)
```

Arguments

colour	A default hex code to override the colour of the legend elements. Note, the "fill" inherits from this argument. Defaults to grey.
	Other arguments passed to ggplot2::guide_legend().

Value

A ggplot guides.

jumble

Examples

```
library(dplyr)
library(tidyr)
library(ggplot2)
library(palmerpenguins)
set_blanket()
penguins |>
    drop_na() |>
    gg_jitter(
        x = species,
        y = flipper_length_mm,
        col = island,
        mapping = aes(shape = sex),
    ) +
    guides_shape_grey()
```

jumble

The jumble palette

Description

A discrete palette that is relatively colour-blind safe.

Usage

jumble

teal

orange

navy

red

pink

purple

Value

A character vector.

Examples

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

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

Usage

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

Arguments

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

Value

A labelling function

Examples

```
label_every_nth()(scales::comma(seq(1000, 5000, 1000)))
label_every_nth()(lubridate::ymd(c("2021-01-01", "2022-01-01", "2023-01-01", "2024-01-01")))
label_every_nth()(LETTERS[1:12])
library(dplyr)
library(palmerpenguins)
set_blanket()
penguins |>
mutate(across(sex, \(x) stringr::str_to_sentence(x))) |>
gg_point(
    x = flipper_length_mm,
    y = body_mass_g,
    col = sex,
    x_labels = label_every_nth(),
    y_labels = label_every_nth(),
    )
```

lightness

Description

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

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

Usage

lightness

darkness

Value

A character vector.

Examples

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

light_mode_r Light mode theme family

Description

A dark mode family of functions:

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

Usage

```
light_mode_r(
...,
base_size = 11,
base_family = "",
base_colour = "#121B24FF",
axis_line_colour = "#121B24FF",
axis_line_linewidth = 0.25,
axis_ticks_colour = axis_line_colour,
```

```
axis_ticks_linewidth = axis_line_linewidth,
  axis_ticks_length = grid::unit(11/3, "pt"),
  panel_grid_colour = "#F6F8FAFF",
  panel_grid_linewidth = 1.33,
  panel_background_fill = "#FFFFFFFF",
  plot_background_fill = "#FFFFFFFF",
  legend_axis_line_colour = plot_background_fill,
  legend_axis_line_linewidth = axis_line_linewidth,
  legend_background_fill = plot_background_fill,
  legend_key_fill = plot_background_fill,
  legend_ticks_colour = legend_axis_line_colour,
  legend_ticks_linewidth = legend_axis_line_linewidth,
  legend_ticks_length = ggplot2::rel(c(0.175, 0))
)
light_mode_t(
  . . . ,
  base_size = 11,
  base_family = "",
  base_colour = "#121B24FF",
  axis_line_colour = "#121B24FF",
  axis_line_linewidth = 0.25,
  axis_ticks_colour = axis_line_colour,
  axis_ticks_linewidth = axis_line_linewidth,
  axis_ticks_length = grid::unit(11/3, "pt"),
  panel_grid_colour = "#F6F8FAFF",
  panel_grid_linewidth = 1.33,
  panel_background_fill = "#FFFFFFFF",
  plot_background_fill = "#FFFFFFFF",
  legend_axis_line_colour = plot_background_fill,
  legend_axis_line_linewidth = axis_line_linewidth,
  legend_background_fill = plot_background_fill,
  legend_key_fill = plot_background_fill,
  legend_ticks_colour = legend_axis_line_colour,
  legend_ticks_linewidth = legend_axis_line_linewidth,
  legend_ticks_length = ggplot2::rel(c(0.175, 0))
)
light_mode_b(
  . . . ,
  base_size = 11,
  base_family = "",
  base_colour = "#121B24FF",
  axis_line_colour = "#121B24FF",
  axis_line_linewidth = 0.25,
  axis_ticks_colour = axis_line_colour,
  axis_ticks_linewidth = axis_line_linewidth,
```

```
axis_ticks_length = grid::unit(11/3, "pt"),
```

```
panel_grid_colour = "#F6F8FAFF",
panel_grid_linewidth = 1.33,
panel_background_fill = "#FFFFFFF",
plot_background_fill = "#FFFFFFF",
legend_axis_line_colour = plot_background_fill,
legend_axis_line_linewidth = axis_line_linewidth,
legend_background_fill = plot_background_fill,
legend_key_fill = plot_background_fill,
legend_ticks_colour = legend_axis_line_colour,
legend_ticks_linewidth = legend_axis_line_linewidth,
legend_ticks_length = ggplot2::rel(c(0.175, 0))
```

Arguments

)

	Provided to require argument naming, support trailing commas etc.
base_size	The base size of the text theme element. Defaults to 11.
base_family	The base family of the text theme element. Defaults to "".
base_colour	The base colour of the text theme element.
axis_line_colo	ur
	The colour of the axis.line theme element.
axis_line_line	width
	The linewidth of the axis.line theme element.
axis_ticks_cold	bur
	The colour of the axis.ticks theme element.
axis_ticks_line	
	The linewidth of the axis.ticks theme element.
axis_ticks_len	-
	The length of the axis.ticks.length theme element.
panel_grid_col	bur
	The colour of the panel.grid theme element.
panel_grid_line	ewidth
	The linewidth of the panel.grid theme element.
panel_backgrou	nd_fill
	The fill (and colour) of the panel.background theme element.
plot_background	d_fill
	The fill (and colour) of the plot.background theme element.
legend_axis_li	ne_colour
	The colour of the legend.axis.line theme element.
legend_axis_line_linewidth	
	The linewidth of the legend.axis.line theme element.
legend_background_fill	
	The fill (and colour) of the legend.background theme element.
legend_key_fill	
	The fill (and colour) of the legend.key theme element.

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scale_x_symmetric

Value

A ggplot theme.

Examples

```
library(palmerpenguins)
library(ggplot2)
set_blanket()
penguins |>
 gg_point(
   x = flipper_length_mm,
   y = body_mass_g,
   col = species,
   mode = light_mode_r()
 )
penguins |>
 gg_point(
   x = flipper_length_mm,
   y = body_mass_g,
   col = species,
   mode = light_mode_t()
 )
penguins |>
 gg_point(
   x = flipper_length_mm,
   y = body_mass_g,
   col = species,
   mode = light_mode_b()
 )
```

scale_x_symmetric Symmetric x continuous scale

Description

Create a symmetric continuous x scale for ggplot2 plots. The scale ensures that limits set to the range of breaks with zero expand (where symmetric = TRUE). Note this scale should only be used in plots with geoms with stat = "identity".

Usage

```
scale_x_symmetric(
   data = NULL,
    x = NULL,
    ...,
   breaks = NULL,
   breaks_n = 6,
   expand = NULL,
   expand_limits = NULL,
   labels = NULL,
   position = "bottom",
   sec_axis = ggplot2::waiver(),
   transform = "identity",
   symmetric = TRUE
)
```

Arguments

data	A data frame or tibble.
х	An unquoted variable.
	Provided to force user argument naming etc.
breaks	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
breaks_n	If breaks = NULL, the desired number of breaks.
expand	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. $c(0, 0)$).
expand_limits	Any values that the limits should encompass (e.g. 0).
labels	A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels.
labels position	
	or scales::label_*()), or a vector of labels.
position	or scales::label_*()), or a vector of labels. The position of the axis (i.e. "left", "right", "bottom" or "top").

Value

A ggplot2 continuous x scale.

Examples

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

set_blanket()

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```
penguins |>
 ggplot() +
 geom_jitter(aes(x = body_mass_g, y = species, colour = species)) +
 scale_x_symmetric(penguins, body_mass_g) +
 theme(axis.line.x = element_blank()) +
 theme(axis.ticks.x = element_blank()) +
 theme(panel.grid.major.y = element_blank()) +
 theme(axis.ticks.y = element_blank()) +
 coord_cartesian(clip = "off") +
 labs(x = "Body mass g", y = "Species", colour = "Species")
```

scale_y_symmetric Symmetric y continuous scale

Description

Create a symmetric continuous y scale for ggplot2 plots. The scale ensures that limits set to the range of breaks with zero expand (where symmetric = TRUE). Note this scale should only be used in plots with geoms with stat = "identity". Symmetric y continuous scale

Usage

```
scale_y_symmetric(
   data = NULL,
   y = NULL,
   ...,
   breaks = NULL,
   breaks_n = 6,
   expand = NULL,
   expand_limits = NULL,
   labels = NULL,
   position = "left",
   sec_axis = ggplot2::waiver(),
   transform = "identity",
   symmetric = TRUE
}
```

```
)
```

Arguments

data	A data frame or tibble.
У	An unquoted variable.
	Provided to force user argument naming etc.
breaks	A scales::breaks_* function (e.g. scales::breaks_*()), or a vector of breaks.
breaks_n	If breaks = NULL, the desired number of breaks.

expand	Padding to the limits with the ggplot2::expansion() function, or a vector of length 2 (e.g. c(0, 0)).
expand_limits	Any values that the limits should encompass (e.g. 0).
labels	A function that takes the breaks as inputs (e.g. \(x) stringr::str_to_sentence(x) or scales::label_*()), or a vector of labels.
position	The position of the axis (i.e. "left", "right", "bottom" or "top").
sec_axis	A secondary axis created with ggplot2::sec_axis() or ggplot2::dup_axis().
transform	A transformation object (e.g. scales::transform_log10()) or character string of this minus the transform_ prefix (e.g. "log10").
symmetric	TRUE or FALSE of whether a symmetric scale.

Value

A ggplot2 continuous y scale.

Examples

```
library(ggplot2)
library(dplyr)
library(palmerpenguins)
set_blanket()
penguins |>
  ggplot() +
  geom_point(aes(x = flipper_length_mm, y = body_mass_g, colour = species)) +
  scale_y_symmetric(penguins, body_mass_g) +
  theme(axis.line.y = element_blank()) +
  theme(axis.ticks.y = element_blank()) +
  theme(panel.grid.major.x = element_blank()) +
  coord_cartesian(clip = "off") +
  labs(x = "Flipper length mm", y = "Body mass g", colour = "Species")
```

set_blanket Set the style

Description

Set the style by setting:

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

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

set_blanket

Usage

```
set_blanket(
  . . . ,
 colour = "#357BA2FF",
 col_palette_d = jumble,
 col_palette_c = viridisLite::mako(n = 9, direction = -1),
  col_palette_o = scales::pal_viridis(option = "G", direction = -1),
  col_palette_na_d = "#CDC5BFFF",
  col_palette_na_c = "#988F88FF",
  col_palette_na_o = "#988F88FF",
  theme = light_mode_r(),
  theme_orientation = NULL,
  theme_axis_line_rm = TRUE,
  theme_axis_ticks_rm = TRUE,
  theme_panel_grid_rm = TRUE,
 label_case = snakecase::to_sentence_case
)
```

Arguments

	Provided to require argument naming, support trailing commas etc.
colour	For most geoms, a default hex code for the colour of geoms (i.e. geoms other than "text", "label", "hline", and "vline"). Note, the "fill" inherits from this argument.
col_palette_d	For a discrete scale, a character vector of hex codes.
col_palette_c	For a continuous scale, a character vector of hex codes.
col_palette_o	For an ordinal scale, a scales::pal_*() function.
col_palette_na_d	
	For a discrete scale, a hex code.
col_palette_na_c	
	For a continuous scale, a hex code.
<pre>col_palette_na_</pre>	0
	For an ordinal scale, a hex code.
theme	A ggplot2 theme (e.g. light_mode_t() or dark_mode_r()).
theme_orientation	
	The orientation of plot, which affects the theme components that can be removed by the gg_* function. Either "x" or "y". Defaults to NULL, which lets the gg_* function guess it based on the data.
theme_axis_line	_rm
	TRUE or FALSE of whether the gg_* function should remove the relevant axis line per the theme_orientation of the plot.
theme_axis_ticks_rm	
	TRUE or FALSE of whether the gg_ \star function should remove the relevant axis ticks per the theme_orientation of the plot.

theme_panel_gri	d_rm
	TRUE or FALSE of whether the gg_* function should remove the relevant panel grid per the theme_orientation of the plot.
label_case	A function to apply to a unspecified/unlabelled x_label, y_label, col_label etc. Defaults to snakecase::to_sentence_case.

Value

A globally set style.

Examples

```
library(ggplot2)
library(ggblanket)
library(palmerpenguins)
set_blanket(
 theme = dark_mode_r(),
 colour = "#E7298AFF",
 )
penguins |>
 gg_point(
  x = flipper_length_mm,
   y = body_mass_g,
 )
penguins |>
 gg_histogram(
  x = flipper_length_mm,
   col = species,
 )
```

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