

Package ‘ggblanket’

September 2, 2022

Title Simplify 'ggplot2' Visualisation

Version 1.4.0

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

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

Encoding UTF-8

RoxygenNote 7.2.1

Imports dplyr, forcats, ggplot2, lubridate, magrittr, purrr, rlang,
scales, snakecase, tidyr, tidyselect, viridis

Suggests knitr, palmerpenguins, pals, patchwork, plotly, rmarkdown,
sf, stringr

VignetteBuilder knitr

NeedsCompilation no

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Repository CRAN

Date/Publication 2022-09-02 06:50:05 UTC

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add_tooltip_text	<i>Add a tooltip text column of united variable names and values.</i>
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Description

Add a tooltip text column of united variable names and values.

Usage

```
add_tooltip_text(data, ..., titles = NULL)
```

Arguments

data	A data frame or tibble.
...	Arguments passed to select (i.e unquoted variables, tidyselect helpers etc). If no arguments provided, uses all columns.
titles	A function to format the variable names, including in rlang lambda format.

Value

A data frame or tibble with a column of text

Examples

```
iris %>%
  add_tooltip_text() %>%
  head(1)

iris %>%
  add_tooltip_text(Species, tidyselect::contains("Sepal")) %>%
  head(1)

library(snakecase)

iris %>%
  add_tooltip_text(titles = ~ to_sentence_case(.x)) %>%
  head(1)

iris %>%
  add_tooltip_text() %>%
  gg_point(x = Sepal.Width,
           y = Sepal.Length,
           col = Species,
           text = text,
           theme = gg_theme("helvetica", grid_v = TRUE, grid_h = TRUE)) %>%
  plotly::ggplotly(tooltip = "text")
```

gg_area

Area ggplot.

Description

Create a area plot with a wrapper around the `ggplot2::geom_area` function.

Usage

```
gg_area(
  data = NULL,
  x = NULL,
  y = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  text = NULL,
  stat = "identity",
  position = "stack",
```

```
pal = NULL,  
pal_na = "#7F7F7F",  
alpha = 0.9,  
...,  
titles = NULL,  
title = NULL,  
subtitle = NULL,  
coord = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_include = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_sec_axis = ggplot2::waiver(),  
x_title = NULL,  
x_trans = "identity",  
y_breaks = NULL,  
y_expand = NULL,  
y_include = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_sec_axis = ggplot2::waiver(),  
y_title = NULL,  
y_trans = "identity",  
col_breaks = NULL,  
col_continuous = "gradient",  
col_include = NULL,  
col_labels = NULL,  
col_legend_place = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_title = NULL,  
facet_labels = NULL,  
facet_ncol = NULL,  
facet_nrow = NULL,  
facet_scales = "fixed",  
facet_space = "fixed",  
facet_layout = NULL,  
caption = NULL,  
theme = NULL  
)
```

Arguments

data	A data frame or tibble.
x	Unquoted x aesthetic variable.

<code>y</code>	Unquoted y aesthetic variable.
<code>col</code>	Unquoted col and fill aesthetic variable.
<code>facet</code>	Unquoted facet aesthetic variable.
<code>facet2</code>	Unquoted second facet variable.
<code>group</code>	Unquoted group aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(, tooltip = "text")</code> .
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
<code>titles</code>	A function to format the x, y and col titles, including in <code>rlang</code> lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>x_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>x_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
<code>x_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>x_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>x_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>y_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>y_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>y_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>y_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>y_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
<code>y_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.

<code>y_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>y_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>col_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>col_continuous</code>	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
<code>col_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.
<code>col_legend_place</code>	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
<code>col_legend_ncol</code>	The number of columns for the legend elements.
<code>col_legend_nrow</code>	The number of rows for the legend elements.
<code>col_legend_rev</code>	Reverse the elements of the legend. Defaults to FALSE.
<code>col_limits</code>	A vector to determine the limits of the axis.
<code>col_title</code>	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a named vector of labels (e.g. <code>c("value" = "label", ...)</code>).
<code>facet_ncol</code>	The number of columns of facets. Only applies to a facet layout of "wrap".
<code>facet_nrow</code>	The number of rows of facets. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>facet_space</code>	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". Only applies where the facet layout is "grid" and facet scales are not "fixed".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both facet and <code>facet2</code> arguments are provided, defaults to "grid".
<code>caption</code>	Caption title string.
<code>theme</code>	A ggplot2 theme.

Value

A ggplot object.

Examples

```
huron <- data.frame(year = 1875:1972, level = as.vector(LakeHuron))
```

```
huron %>%  
  gg_area(  
    x = year,  
    y = level,  
    x_labels = ~.x)
```

```
huron %>%  
  gg_area(  
    y = year,  
    x = level,  
    x_labels = ~.x,  
    orientation = "y")
```

gg_bar

Bar ggplot.

Description

Create a bar plot with a wrapper around the `ggplot2::geom_bar` function.

Usage

```
gg_bar(  
  data = NULL,  
  x = NULL,  
  y = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  text = NULL,  
  stat = "count",  
  position = "stack",  
  pal = NULL,  
  pal_na = "#7F7F7F",  
  alpha = 0.9,  
  ...,  
  titles = NULL,  
  title = NULL,  
  subtitle = NULL,  
  coord = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_include = NULL,
```

```

x_labels = NULL,
x_limits = NULL,
x_sec_axis = ggplot2::waiver(),
x_title = NULL,
x_trans = "identity",
y_breaks = NULL,
y_expand = NULL,
y_include = NULL,
y_labels = NULL,
y_limits = NULL,
y_sec_axis = ggplot2::waiver(),
y_title = NULL,
y_trans = "identity",
col_breaks = NULL,
col_continuous = "gradient",
col_include = NULL,
col_labels = NULL,
col_legend_place = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_title = NULL,
facet_labels = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
facet_layout = NULL,
caption = NULL,
theme = NULL
)

```

Arguments

<code>data</code>	A data frame or tibble.
<code>x</code>	Unquoted x aesthetic variable.
<code>y</code>	Unquoted y aesthetic variable.
<code>col</code>	Unquoted col and fill aesthetic variable.
<code>facet</code>	Unquoted facet aesthetic variable.
<code>facet2</code>	Unquoted second facet variable.
<code>group</code>	Unquoted group aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(., tooltip = "text")</code> .
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).

pal	Colours to use. A character vector of hex codes (or names).
pal_na	Colour to use for NA values. A character vector of a hex code (or name).
alpha	Opacity. A number between 0 and 1.
...	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
x_expand	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
x_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
x_labels	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
x_limits	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
x_sec_axis	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
x_title	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
x_trans	For a numeric variable, a transformation object (e.g. "log10").
y_breaks	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
y_expand	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
y_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
y_labels	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
y_limits	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
y_sec_axis	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
y_title	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
y_trans	For a numeric variable, a transformation object (e.g. "log10").
col_breaks	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
col_continuous	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_labels	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.

<code>col_legend_place</code>	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
<code>col_legend_ncol</code>	The number of columns for the legend elements.
<code>col_legend_nrow</code>	The number of rows for the legend elements.
<code>col_legend_rev</code>	Reverse the elements of the legend. Defaults to FALSE.
<code>col_limits</code>	A vector to determine the limits of the axis.
<code>col_title</code>	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a named vector of labels (e.g. <code>c("value" = "label", ...)</code>).
<code>facet_ncol</code>	The number of columns of facets. Only applies to a facet layout of "wrap".
<code>facet_nrow</code>	The number of rows of facets. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>facet_space</code>	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". Only applies where the facet layout is "grid" and facet scales are not "fixed".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
<code>caption</code>	Caption title string.
<code>theme</code>	A ggplot2 theme.

Value

A ggplot object.

Examples

```
library(ggplot2)
gg_bar(mpg, x = class)
gg_bar(mpg, y = class)
gg_bar(mpg, x = class, col = drv)
gg_bar(mpg, y = class, col = drv, col_legend_place = "t")
```

`gg_blank`*Blank ggplot.*

Description

Create a blank plot with a wrapper around the `ggplot2::geom_blank` function.

Usage

```
gg_blank(  
  data = NULL,  
  x = NULL,  
  y = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  label = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  xend = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  yend = NULL,  
  stat = "identity",  
  position = "identity",  
  pal = NULL,  
  pal_na = "#7F7F7F",  
  ...,  
  titles = NULL,  
  title = NULL,  
  subtitle = NULL,  
  coord = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_include = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_sec_axis = ggplot2::waiver(),  
  x_title = NULL,  
  x_trans = "identity",  
  y_breaks = NULL,  
  y_expand = NULL,  
  y_include = NULL,  
  y_labels = NULL,  
  y_limits = NULL,  
  y_sec_axis = ggplot2::waiver(),
```

```

y_title = NULL,
y_trans = "identity",
col_breaks = NULL,
col_continuous = "gradient",
col_include = NULL,
col_labels = NULL,
col_legend_place = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_title = NULL,
facet_labels = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
facet_layout = NULL,
caption = NULL,
theme = NULL
)

```

Arguments

<code>data</code>	A data frame or tibble.
<code>x</code>	Unquoted x aesthetic variable.
<code>y</code>	Unquoted y aesthetic variable.
<code>col</code>	Unquoted col and fill aesthetic variable.
<code>facet</code>	Unquoted facet aesthetic variable.
<code>facet2</code>	Unquoted second facet variable.
<code>group</code>	Unquoted group aesthetic variable.
<code>label</code>	Unquoted label aesthetic variable.
<code>xmin</code>	Unquoted xmin aesthetic variable.
<code>xmax</code>	Unquoted xmax aesthetic variable.
<code>xend</code>	Unquoted xend aesthetic variable.
<code>ymin</code>	Unquoted ymin aesthetic variable.
<code>ymax</code>	Unquoted ymax aesthetic variable.
<code>yend</code>	Unquoted yend aesthetic variable.
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).

...	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
<code>titles</code>	A function to format the x, y and col titles, including in <code>rlang</code> lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>x_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>x_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
<code>x_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>x_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>x_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>y_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>y_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>y_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>y_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>y_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
<code>y_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>y_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>y_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>col_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>col_continuous</code>	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
<code>col_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.
<code>col_legend_place</code>	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
<code>col_legend_ncol</code>	The number of columns for the legend elements.

<code>col_legend_nrow</code>	The number of rows for the legend elements.
<code>col_legend_rev</code>	Reverse the elements of the legend. Defaults to FALSE.
<code>col_limits</code>	A vector to determine the limits of the axis.
<code>col_title</code>	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a named vector of labels (e.g. <code>c("value" = "label", ...)</code>).
<code>facet_ncol</code>	The number of columns of facets. Only applies to a facet layout of "wrap".
<code>facet_nrow</code>	The number of rows of facets. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>facet_space</code>	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". Only applies where the facet layout is "grid" and facet scales are not "fixed".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
<code>caption</code>	Caption title string.
<code>theme</code>	A ggplot2 theme.

Value

A ggplot object.

Examples

```
library(ggplot2)

gg_blank(mtcars, x = wt, y = mpg)
gg_blank(mtcars, x = wt, y = mpg, col = cyl)

mtcars %>%
  dplyr::mutate(cyl = factor(cyl)) %>%
  gg_blank(x = wt, y = mpg, col = cyl, size = 1)

gg_blank(diamonds, x = carat, y = price)
```

`gg_boxplot`*Boxplot ggplot.*

Description

Create a boxplot plot with a wrapper around the `ggplot2::geom_boxplot` function.

Usage

```
gg_boxplot(  
  data = NULL,  
  x = NULL,  
  y = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  text = NULL,  
  stat = "boxplot",  
  position = "dodge2",  
  pal = NULL,  
  pal_na = "#7F7F7F",  
  alpha = 0.5,  
  ...,  
  titles = NULL,  
  title = NULL,  
  subtitle = NULL,  
  coord = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_include = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_sec_axis = ggplot2::waiver(),  
  x_title = NULL,  
  x_trans = "identity",  
  y_breaks = NULL,  
  y_expand = NULL,  
  y_include = NULL,  
  y_labels = NULL,  
  y_limits = NULL,  
  y_sec_axis = ggplot2::waiver(),  
  y_title = NULL,  
  y_trans = "identity",  
  col_breaks = NULL,  
  col_continuous = "gradient",  
  col_include = NULL,
```

```

col_labels = NULL,
col_legend_place = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_title = NULL,
facet_labels = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
facet_layout = NULL,
caption = NULL,
theme = NULL
)

```

Arguments

<code>data</code>	A data frame or tibble.
<code>x</code>	Unquoted x aesthetic variable.
<code>y</code>	Unquoted y aesthetic variable.
<code>col</code>	Unquoted col and fill aesthetic variable.
<code>facet</code>	Unquoted facet aesthetic variable.
<code>facet2</code>	Unquoted second facet variable.
<code>group</code>	Unquoted group aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(., tooltip = "text")</code> .
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
<code>titles</code>	A function to format the x, y and col titles, including in <code>rlang</code> lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).

x_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
x_labels	A function that takes the breaks as inputs (e.g. scales::label_comma()), or a vector of labels.
x_limits	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using coord = coord_cartesian(xlim = ...).
x_sec_axis	A secondary axis using the ggplot2::sec_axis or ggplot2::dup_axis function.
x_title	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
x_trans	For a numeric variable, a transformation object (e.g. "log10").
y_breaks	A function on the limits (e.g. scales::breaks_pretty()), or a vector of breaks.
y_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
y_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
y_labels	A function that takes the breaks as inputs (e.g. scales::label_comma()), or a vector of labels.
y_limits	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using coord = coord_cartesian(ylim = ...).
y_sec_axis	A secondary axis using the ggplot2::sec_axis or ggplot2::dup_axis function.
y_title	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
y_trans	For a numeric variable, a transformation object (e.g. "log10").
col_breaks	A function on the limits (e.g. scales::breaks_pretty()), or a vector of breaks.
col_continuous	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_labels	A function that takes the breaks as inputs (e.g. scales::label_comma()), or a vector of labels. Note this does not affect where col_intervals is not NULL.
col_legend_place	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_legend_rev	Reverse the elements of the legend. Defaults to FALSE.
col_limits	A vector to determine the limits of the axis.
col_title	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
facet_labels	A function that takes the breaks as inputs (e.g. scales::label_comma()), or a named vector of labels (e.g. c("value" = "label", ...)).
facet_ncol	The number of columns of facets. Only applies to a facet layout of "wrap".

facet_nrow	The number of rows of facets. 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	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". Only applies where the facet layout is "grid" and facet scales are not "fixed".
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".
caption	Caption title string.
theme	A ggplot2 theme.

Value

A ggplot object.

Examples

```
library(ggplot2)
gg_boxplot(mpg, x = class, y = hwy)
gg_boxplot(mpg, x = hwy, y = class)
gg_boxplot(mpg, x = hwy, y = class, notch = TRUE)
gg_boxplot(mpg, x = hwy, y = class, varwidth = TRUE)
gg_boxplot(mpg, x = hwy, y = class, pal = "#3366FF", alpha = 0)

gg_boxplot(mpg, x = hwy, y = class, col = drv)

gg_boxplot(diamonds, x = carat, y = price)

gg_boxplot(diamonds, carat, price, group = ggplot2::cut_width(carat, 0.25))
```

gg_col

Col ggplot.

Description

Create a col plot with a wrapper around the ggplot2::geom_col function.

Usage

```
gg_col(
  data = NULL,
  x = NULL,
  y = NULL,
  col = NULL,
```

```
facet = NULL,  
facet2 = NULL,  
group = NULL,  
text = NULL,  
stat = "identity",  
position = "stack",  
pal = NULL,  
pal_na = "#7F7F7F",  
alpha = 0.9,  
...,  
titles = NULL,  
title = NULL,  
subtitle = NULL,  
coord = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_include = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_sec_axis = ggplot2::waiver(),  
x_title = NULL,  
x_trans = "identity",  
y_breaks = NULL,  
y_expand = NULL,  
y_include = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_sec_axis = ggplot2::waiver(),  
y_title = NULL,  
y_trans = "identity",  
col_breaks = NULL,  
col_continuous = "gradient",  
col_include = NULL,  
col_labels = NULL,  
col_legend_place = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_title = NULL,  
facet_labels = NULL,  
facet_ncol = NULL,  
facet_nrow = NULL,  
facet_scales = "fixed",  
facet_space = "fixed",  
facet_layout = NULL,  
caption = NULL,  
theme = NULL
```

)

Arguments

<code>data</code>	A data frame or tibble.
<code>x</code>	Unquoted x aesthetic variable.
<code>y</code>	Unquoted y aesthetic variable.
<code>col</code>	Unquoted col and fill aesthetic variable.
<code>facet</code>	Unquoted facet aesthetic variable.
<code>facet2</code>	Unquoted second facet variable.
<code>group</code>	Unquoted group aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(, tooltip = "text")</code> .
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
<code>titles</code>	A function to format the x, y and col titles, including in rlang lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>x_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>x_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
<code>x_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>x_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>x_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>y_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>y_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).

<code>y_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>y_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>y_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
<code>y_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>y_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>y_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>col_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>col_continuous</code>	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
<code>col_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.
<code>col_legend_place</code>	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
<code>col_legend_ncol</code>	The number of columns for the legend elements.
<code>col_legend_nrow</code>	The number of rows for the legend elements.
<code>col_legend_rev</code>	Reverse the elements of the legend. Defaults to FALSE.
<code>col_limits</code>	A vector to determine the limits of the axis.
<code>col_title</code>	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a named vector of labels (e.g. <code>c("value" = "label", ...)</code>).
<code>facet_ncol</code>	The number of columns of facets. Only applies to a facet layout of "wrap".
<code>facet_nrow</code>	The number of rows of facets. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>facet_space</code>	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". Only applies where the facet layout is "grid" and facet scales are not "fixed".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
<code>caption</code>	Caption title string.
<code>theme</code>	A <code>ggplot2</code> theme.

Value

A ggplot object.

Examples

```
df <- data.frame(trt = c("a", "b", "c"), outcome = c(2.3, 1.9, 3.2))
gg_col(df, x = trt, y = outcome)
gg_col(df, x = trt, y = outcome, col = trt)
```

gg_crossbar

Crossbar ggplot.

Description

Create a crossbar plot with a wrapper around the `ggplot2::geom_crossbar` function.

Usage

```
gg_crossbar(  
  data = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  text = NULL,  
  stat = "identity",  
  position = "identity",  
  pal = NULL,  
  pal_na = "#7F7F7F",  
  alpha = 0.5,  
  titles = NULL,  
  ...,  
  title = NULL,  
  subtitle = NULL,  
  coord = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_include = NULL,  
  x_labels = NULL,  
  x_limits = NULL,
```

```

x_sec_axis = ggplot2::waiver(),
x_title = NULL,
x_trans = "identity",
y_breaks = NULL,
y_expand = NULL,
y_include = NULL,
y_labels = NULL,
y_limits = NULL,
y_sec_axis = ggplot2::waiver(),
y_title = NULL,
y_trans = "identity",
col_breaks = NULL,
col_continuous = "gradient",
col_include = NULL,
col_labels = NULL,
col_legend_place = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_title = NULL,
facet_labels = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
facet_layout = NULL,
caption = NULL,
theme = NULL
)

```

Arguments

data	A data frame or tibble.
x	Unquoted x aesthetic variable.
xmin	Unquoted xmin aesthetic variable.
xmax	Unquoted xmax aesthetic variable.
y	Unquoted y aesthetic variable.
ymin	Unquoted ymin aesthetic variable.
ymax	Unquoted ymax aesthetic variable.
col	Unquoted col and fill aesthetic variable.
facet	Unquoted facet aesthetic variable.
facet2	Unquoted second facet variable.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(., tooltip = "text")</code> .

<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>titles</code>	A function to format the x, y and col titles, including in rlang lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>x_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>x_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
<code>x_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>x_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>x_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>y_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>y_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>y_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>y_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>y_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
<code>y_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>y_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>y_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>col_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>col_continuous</code>	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
<code>col_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).

col_labels	A function that takes the breaks as inputs (e.g. scales::label_comma()), or a vector of labels. Note this does not affect where col_intervals is not NULL.
col_legend_place	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_legend_rev	Reverse the elements of the legend. Defaults to FALSE.
col_limits	A vector to determine the limits of the axis.
col_title	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
facet_labels	A function that takes the breaks as inputs (e.g. scales::label_comma()), or a named vector of labels (e.g. c("value" = "label", ...)).
facet_ncol	The number of columns of facets. Only applies to a facet layout of "wrap".
facet_nrow	The number of rows of facets. 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	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". Only applies where the facet layout is "grid" and facet scales are not "fixed".
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".
caption	Caption title string.
theme	A ggplot2 theme.

Value

A ggplot object.

Examples

```
library(ggplot2)

df <- 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(df, x = trt, y = resp, ymin = lower, ymax = upper, col = group)
```

gg_density	<i>Density ggplot.</i>
------------	------------------------

Description

Create a density plot with a wrapper around the `ggplot2::geom_density` function.

Usage

```
gg_density(  
  data = NULL,  
  x = NULL,  
  y = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  text = NULL,  
  stat = "density",  
  position = "identity",  
  pal = NULL,  
  pal_na = "#7F7F7F",  
  alpha = 0.5,  
  ...,  
  titles = NULL,  
  title = NULL,  
  subtitle = NULL,  
  coord = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_include = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_sec_axis = ggplot2::waiver(),  
  x_title = NULL,  
  x_trans = "identity",  
  y_breaks = NULL,  
  y_expand = NULL,  
  y_include = NULL,  
  y_labels = NULL,  
  y_limits = NULL,  
  y_sec_axis = ggplot2::waiver(),  
  y_title = NULL,  
  y_trans = "identity",  
  col_breaks = NULL,  
  col_continuous = "gradient",  
  col_include = NULL,
```

```

col_labels = NULL,
col_legend_place = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_title = NULL,
facet_labels = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
facet_layout = NULL,
caption = NULL,
theme = NULL
)

```

Arguments

<code>data</code>	A data frame or tibble.
<code>x</code>	Unquoted x aesthetic variable.
<code>y</code>	Unquoted y aesthetic variable.
<code>col</code>	Unquoted col and fill aesthetic variable.
<code>facet</code>	Unquoted facet aesthetic variable.
<code>facet2</code>	Unquoted second facet variable.
<code>group</code>	Unquoted group aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(., tooltip = "text")</code> .
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
<code>titles</code>	A function to format the x, y and col titles, including in <code>rlang</code> lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).

<code>x_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>x_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>x_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
<code>x_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>x_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>x_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>y_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>y_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>y_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>y_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>y_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
<code>y_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>y_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>y_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>col_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>col_continuous</code>	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
<code>col_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.
<code>col_legend_place</code>	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
<code>col_legend_ncol</code>	The number of columns for the legend elements.
<code>col_legend_nrow</code>	The number of rows for the legend elements.
<code>col_legend_rev</code>	Reverse the elements of the legend. Defaults to FALSE.
<code>col_limits</code>	A vector to determine the limits of the axis.
<code>col_title</code>	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a named vector of labels (e.g. <code>c("value" = "label", ...)</code>).
<code>facet_ncol</code>	The number of columns of facets. Only applies to a facet layout of "wrap".

facet_nrow	The number of rows of facets. 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	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". Only applies where the facet layout is "grid" and facet scales are not "fixed".
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".
caption	Caption title string.
theme	A ggplot2 theme.

Value

A ggplot object.

Examples

```
library(ggplot2)
gg_density(diamonds, x = carat)
gg_density(diamonds, y = carat)
gg_density(diamonds, x = carat, adjust = 1/5)
gg_density(diamonds, x = carat, adjust = 5)
gg_density(diamonds, x = depth, col = cut, x_limits = c(55, 70))
gg_density(diamonds, x = carat, col = cut, position = "stack", alpha = 0.9)
gg_density(diamonds, x = carat, col = cut, position = "fill", alpha = 0.9)
```

gg_errorbar

Errorbar ggplot.

Description

Create a errorbar plot with a wrapper around the ggplot2::geom_errorbar function.

Usage

```
gg_errorbar(
  data = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  col = NULL,
```

```
facet = NULL,  
facet2 = NULL,  
group = NULL,  
text = NULL,  
stat = "identity",  
position = "identity",  
pal = NULL,  
pal_na = "#7F7F7F",  
alpha = 1,  
...,  
titles = NULL,  
title = NULL,  
subtitle = NULL,  
coord = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_include = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_sec_axis = ggplot2::waiver(),  
x_title = NULL,  
x_trans = "identity",  
y_breaks = NULL,  
y_expand = NULL,  
y_include = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_sec_axis = ggplot2::waiver(),  
y_title = NULL,  
y_trans = "identity",  
col_breaks = NULL,  
col_continuous = "gradient",  
col_include = NULL,  
col_labels = NULL,  
col_legend_place = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_title = NULL,  
facet_labels = NULL,  
facet_ncol = NULL,  
facet_nrow = NULL,  
facet_scales = "fixed",  
facet_space = "fixed",  
facet_layout = NULL,  
caption = NULL,  
theme = NULL
```

)

Arguments

<code>data</code>	A data frame or tibble.
<code>x</code>	Unquoted x aesthetic variable.
<code>xmin</code>	Unquoted xmin aesthetic variable.
<code>xmax</code>	Unquoted xmax aesthetic variable.
<code>y</code>	Unquoted y aesthetic variable.
<code>ymin</code>	Unquoted ymin aesthetic variable.
<code>ymax</code>	Unquoted ymax aesthetic variable.
<code>col</code>	Unquoted col and fill aesthetic variable.
<code>facet</code>	Unquoted facet aesthetic variable.
<code>facet2</code>	Unquoted second facet variable.
<code>group</code>	Unquoted group aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(., tooltip = "text")</code> .
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
<code>titles</code>	A function to format the x, y and col titles, including in <code>rlang</code> lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>x_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>x_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
<code>x_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>x_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.

<code>x_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>y_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>y_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>y_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>y_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>y_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
<code>y_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>y_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>y_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>col_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>col_continuous</code>	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
<code>col_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.
<code>col_legend_place</code>	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
<code>col_legend_ncol</code>	The number of columns for the legend elements.
<code>col_legend_nrow</code>	The number of rows for the legend elements.
<code>col_legend_rev</code>	Reverse the elements of the legend. Defaults to FALSE.
<code>col_limits</code>	A vector to determine the limits of the axis.
<code>col_title</code>	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a named vector of labels (e.g. <code>c("value" = "label", ...)</code>).
<code>facet_ncol</code>	The number of columns of facets. Only applies to a facet layout of "wrap".
<code>facet_nrow</code>	The number of rows of facets. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>facet_space</code>	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". Only applies where the facet layout is "grid" and facet scales are not "fixed".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
<code>caption</code>	Caption title string.
<code>theme</code>	A <code>ggplot2</code> theme.

Value

A ggplot object.

Examples

```
library(ggplot2)

df <- 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(df, x = trt, ymin = lower, ymax = upper, col = group)
gg_errorbar(df, y = trt, xmin = lower, xmax = upper, col = group)

gg_errorbar(df, x = trt, y = resp, ymin = lower, ymax = upper, col = group) +
  geom_line(aes(group = group)) +
  geom_point()

dodger <- position_dodge(width = 0.75)

gg_blank(df, x = trt, y = resp, ymin = lower, ymax = upper, col = group) +
  geom_col(position = dodger, width = 0.75) +
  geom_errorbar(aes(x = trt, ymin = lower, ymax = upper, group = group),
    inherit.aes = FALSE,
    position = dodger,
    width = 0.1)
```

gg_freqpoly

Freqpoly ggplot.

Description

Create a freqpoly plot with a wrapper around the ggplot2::geom_freqpoly function.

Usage

```
gg_freqpoly(
  data = NULL,
  x = NULL,
  y = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
```

```
text = NULL,  
stat = "bin",  
position = "identity",  
pal = NULL,  
pal_na = "#7F7F7F",  
alpha = 1,  
...,  
titles = NULL,  
title = NULL,  
subtitle = NULL,  
coord = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_include = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_sec_axis = ggplot2::waiver(),  
x_title = NULL,  
x_trans = "identity",  
y_breaks = NULL,  
y_expand = NULL,  
y_include = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_sec_axis = ggplot2::waiver(),  
y_title = NULL,  
y_trans = "identity",  
col_breaks = NULL,  
col_continuous = "gradient",  
col_include = NULL,  
col_labels = NULL,  
col_legend_place = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_title = NULL,  
facet_labels = NULL,  
facet_ncol = NULL,  
facet_nrow = NULL,  
facet_scales = "fixed",  
facet_space = "fixed",  
facet_layout = NULL,  
caption = NULL,  
theme = NULL  
)
```

Arguments

<code>data</code>	A data frame or tibble.
<code>x</code>	Unquoted x aesthetic variable.
<code>y</code>	Unquoted y aesthetic variable.
<code>col</code>	Unquoted col and fill aesthetic variable.
<code>facet</code>	Unquoted facet aesthetic variable.
<code>facet2</code>	Unquoted second facet variable.
<code>group</code>	Unquoted group aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(, tooltip = "text")</code> .
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
<code>titles</code>	A function to format the x, y and col titles, including in <code>rlang</code> lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>x_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>x_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
<code>x_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>x_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>x_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>y_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>y_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>y_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).

<code>y_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>y_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
<code>y_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>y_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>y_trans</code>	For a numeric variable, a transformation object (e.g. <code>"log10"</code>).
<code>col_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>col_continuous</code>	Type of colouring for a continuous variable. Either <code>"gradient"</code> or <code>"steps"</code> . Defaults to <code>"steps"</code> .
<code>col_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.
<code>col_legend_place</code>	The place for the legend. <code>"b"</code> for bottom, <code>"r"</code> for right, <code>"t"</code> for top, or <code>"l"</code> for left. Defaults to <code>"b"</code> .
<code>col_legend_ncol</code>	The number of columns for the legend elements.
<code>col_legend_nrow</code>	The number of rows for the legend elements.
<code>col_legend_rev</code>	Reverse the elements of the legend. Defaults to <code>FALSE</code> .
<code>col_limits</code>	A vector to determine the limits of the axis.
<code>col_title</code>	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a named vector of labels (e.g. <code>c("value" = "label", ...)</code>).
<code>facet_ncol</code>	The number of columns of facets. Only applies to a facet layout of <code>"wrap"</code> .
<code>facet_nrow</code>	The number of rows of facets. Only applies to a facet layout of <code>"wrap"</code> .
<code>facet_scales</code>	Whether facet scales should be <code>"fixed"</code> across facets, <code>"free"</code> in both directions, or free in just one direction (i.e. <code>"free_x"</code> or <code>"free_y"</code>). Defaults to <code>"fixed"</code> .
<code>facet_space</code>	Whether facet space should be <code>"fixed"</code> across facets, <code>"free"</code> to be proportional in both directions, or free to be proportional in just one direction (i.e. <code>"free_x"</code> or <code>"free_y"</code>). Defaults to <code>"fixed"</code> . Only applies where the facet layout is <code>"grid"</code> and facet scales are not <code>"fixed"</code> .
<code>facet_layout</code>	Whether the layout is to be <code>"wrap"</code> or <code>"grid"</code> . If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to <code>"wrap"</code> . If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to <code>"grid"</code> .
<code>caption</code>	Caption title string.
<code>theme</code>	A <code>ggplot2</code> theme.

Value

A `ggplot` object.

Examples

```
library(ggplot2)
gg_freqpoly(diamonds, x = carat)
gg_freqpoly(diamonds, x = carat, binwidth = 0.01)
gg_freqpoly(diamonds, x = carat, bins = 200)
gg_freqpoly(diamonds, y = carat)
gg_freqpoly(diamonds, x = price, col = cut)
```

gg_function

Function ggplot.

Description

Create a function plot with a wrapper around the `ggplot2::geom_function` function.

Usage

```
gg_function(
  data = NULL,
  x = NULL,
  y = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  text = NULL,
  stat = "function",
  position = "identity",
  pal = NULL,
  pal_na = "#7F7F7F",
  alpha = 1,
  ...,
  titles = NULL,
  title = NULL,
  subtitle = NULL,
  coord = NULL,
  x_breaks = NULL,
  x_expand = NULL,
  x_include = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_sec_axis = ggplot2::waiver(),
  x_title = NULL,
  x_trans = "identity",
  y_breaks = NULL,
  y_expand = NULL,
```

```

y_include = NULL,
y_labels = NULL,
y_limits = NULL,
y_sec_axis = ggplot2::waiver(),
y_title = NULL,
y_trans = "identity",
col_breaks = NULL,
col_continuous = "gradient",
col_include = NULL,
col_labels = NULL,
col_legend_place = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_title = NULL,
facet_labels = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
facet_layout = NULL,
caption = NULL,
theme = NULL
)

```

Arguments

<code>data</code>	A data frame or tibble.
<code>x</code>	Unquoted x aesthetic variable.
<code>y</code>	Unquoted y aesthetic variable.
<code>col</code>	Unquoted col and fill aesthetic variable.
<code>facet</code>	Unquoted facet aesthetic variable.
<code>facet2</code>	Unquoted second facet variable.
<code>group</code>	Unquoted group aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(., tooltip = "text")</code> .
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.

<code>titles</code>	A function to format the x, y and col titles, including in rlang lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>x_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>x_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
<code>x_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>x_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>x_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>y_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>y_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>y_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>y_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>y_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
<code>y_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>y_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>y_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>col_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>col_continuous</code>	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
<code>col_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.
<code>col_legend_place</code>	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
<code>col_legend_ncol</code>	The number of columns for the legend elements.

col_legend_nrow	The number of rows for the legend elements.
col_legend_rev	Reverse the elements of the legend. Defaults to FALSE.
col_limits	A vector to determine the limits of the axis.
col_title	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
facet_labels	A function that takes the breaks as inputs (e.g. scales::label_comma()), or a named vector of labels (e.g. c("value" = "label", ...)).
facet_ncol	The number of columns of facets. Only applies to a facet layout of "wrap".
facet_nrow	The number of rows of facets. 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	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". Only applies where the facet layout is "grid" and facet scales are not "fixed".
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".
caption	Caption title string.
theme	A ggplot2 theme.

Value

A ggplot object.

Examples

```
library(ggplot2)
gg_function(data.frame(x = rnorm(100)), x = x, fun = ~dnorm(.x))
gg_function(data.frame(x = rnorm(100)), x = x, fun = ~0.5*exp(-abs(.x)))
```

gg_histogram

Histogram ggplot.

Description

Create a histogram plot with a wrapper around the ggplot2::geom_histogram function.

Usage

```
gg_histogram(  
  data = NULL,  
  x = NULL,  
  y = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  text = NULL,  
  stat = "bin",  
  position = "stack",  
  pal = NULL,  
  pal_na = "#7F7F7F",  
  alpha = 0.9,  
  ...,  
  titles = NULL,  
  title = NULL,  
  subtitle = NULL,  
  coord = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_include = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_sec_axis = ggplot2::waiver(),  
  x_title = NULL,  
  x_trans = "identity",  
  y_breaks = NULL,  
  y_expand = NULL,  
  y_include = NULL,  
  y_labels = NULL,  
  y_limits = NULL,  
  y_sec_axis = ggplot2::waiver(),  
  y_title = NULL,  
  y_trans = "identity",  
  col_breaks = NULL,  
  col_continuous = "gradient",  
  col_include = NULL,  
  col_labels = NULL,  
  col_legend_place = NULL,  
  col_legend_ncol = NULL,  
  col_legend_nrow = NULL,  
  col_legend_rev = FALSE,  
  col_limits = NULL,  
  col_title = NULL,  
  facet_labels = NULL,  
  facet_ncol = NULL,
```

```

facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
facet_layout = NULL,
caption = NULL,
theme = NULL
)

```

Arguments

<code>data</code>	A data frame or tibble.
<code>x</code>	Unquoted x aesthetic variable.
<code>y</code>	Unquoted y aesthetic variable.
<code>col</code>	Unquoted col and fill aesthetic variable.
<code>facet</code>	Unquoted facet aesthetic variable.
<code>facet2</code>	Unquoted second facet variable.
<code>group</code>	Unquoted group aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(., tooltip = "text")</code> .
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
<code>titles</code>	A function to format the x, y and col titles, including in rlang lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>x_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>x_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
<code>x_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>x_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.

x_trans	For a numeric variable, a transformation object (e.g. "log10").
y_breaks	A function on the limits (e.g. scales::breaks_pretty()), or a vector of breaks.
y_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
y_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
y_labels	A function that takes the breaks as inputs (e.g. scales::label_comma()), or a vector of labels.
y_limits	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using coord = coord_cartesian(ylim = ...).
y_sec_axis	A secondary axis using the ggplot2::sec_axis or ggplot2::dup_axis function.
y_title	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
y_trans	For a numeric variable, a transformation object (e.g. "log10").
col_breaks	A function on the limits (e.g. scales::breaks_pretty()), or a vector of breaks.
col_continuous	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_labels	A function that takes the breaks as inputs (e.g. scales::label_comma()), or a vector of labels. Note this does not affect where col_intervals is not NULL.
col_legend_place	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_legend_rev	Reverse the elements of the legend. Defaults to FALSE.
col_limits	A vector to determine the limits of the axis.
col_title	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
facet_labels	A function that takes the breaks as inputs (e.g. scales::label_comma()), or a named vector of labels (e.g. c("value" = "label", ...)).
facet_ncol	The number of columns of facets. Only applies to a facet layout of "wrap".
facet_nrow	The number of rows of facets. 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	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". Only applies where the facet layout is "grid" and facet scales are not "fixed".
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".
caption	Caption title string.
theme	A ggplot2 theme.

Value

A ggplot object.

Examples

```
library(ggplot2)

gg_histogram(diamonds, x = carat)
gg_histogram(diamonds, x = carat, binwidth = 0.01)
gg_histogram(diamonds, x = carat, bins = 200)
gg_histogram(diamonds, y = carat)

gg_histogram(diamonds, x = price, col = cut)
gg_histogram(diamonds, x = price, col = cut, position = "fill")

gg_histogram(economics_long, x = value, facet = variable,
             binwidth = function(x) 2 * IQR(x) / (length(x)^(1/3)),
             facet_scales = "free_x",
             x_breaks = scales::breaks_pretty(3),
             facet_ncol = 2)
```

gg_jitter

Jitter ggplot.

Description

Create a jitter plot with a wrapper around the ggplot2::geom_jitter function.

Usage

```
gg_jitter(
  data = NULL,
  x = NULL,
  y = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  text = NULL,
  stat = "identity",
  position = "jitter",
  pal = NULL,
  pal_na = "#7F7F7F",
  alpha = 1,
  ...,
  titles = NULL,
  title = NULL,
```

```

  subtitle = NULL,
  coord = NULL,
  x_breaks = NULL,
  x_expand = NULL,
  x_include = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_sec_axis = ggplot2::waiver(),
  x_title = NULL,
  x_trans = "identity",
  y_breaks = NULL,
  y_expand = NULL,
  y_include = NULL,
  y_labels = NULL,
  y_limits = NULL,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
  col_continuous = "gradient",
  col_include = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  facet_space = "fixed",
  facet_layout = NULL,
  caption = NULL,
  theme = NULL
)

```

Arguments

data	A data frame or tibble.
x	Unquoted x aesthetic variable.
y	Unquoted y aesthetic variable.
col	Unquoted col and fill aesthetic variable.
facet	Unquoted facet aesthetic variable.
facet2	Unquoted second facet variable.
group	Unquoted group aesthetic variable.

<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(, tooltip = "text")</code> .
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
<code>titles</code>	A function to format the x, y and col titles, including in <code>rlang</code> lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>x_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>x_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
<code>x_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>x_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>x_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>y_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>y_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>y_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>y_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>y_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
<code>y_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>y_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>y_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>col_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.

<code>col_continuous</code>	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
<code>col_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.
<code>col_legend_place</code>	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
<code>col_legend_ncol</code>	The number of columns for the legend elements.
<code>col_legend_nrow</code>	The number of rows for the legend elements.
<code>col_legend_rev</code>	Reverse the elements of the legend. Defaults to FALSE.
<code>col_limits</code>	A vector to determine the limits of the axis.
<code>col_title</code>	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a named vector of labels (e.g. <code>c("value" = "label", ...)</code>).
<code>facet_ncol</code>	The number of columns of facets. Only applies to a facet layout of "wrap".
<code>facet_nrow</code>	The number of rows of facets. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>facet_space</code>	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". Only applies where the facet layout is "grid" and facet scales are not "fixed".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
<code>caption</code>	Caption title string.
<code>theme</code>	A ggplot2 theme.

Value

A ggplot object.

Examples

```
library(ggplot2)
gg_jitter(mpg, x = cyl, y = hwy)
gg_jitter(mpg, x = cyl, y = hwy, col = class)
gg_jitter(mpg, x = cyl, y = hwy, col = class,
          position = position_jitter(width = 0.25))
```

`gg_label`*Label ggplot.*

Description

Create a label plot with a wrapper around the `ggplot2::geom_label` function.

Usage

```
gg_label(  
  data = NULL,  
  x = NULL,  
  y = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  text = NULL,  
  label = NULL,  
  stat = "identity",  
  position = "identity",  
  pal = NULL,  
  pal_na = "#7F7F7F",  
  alpha = 0,  
  ...,  
  titles = NULL,  
  title = NULL,  
  subtitle = NULL,  
  coord = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_include = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_sec_axis = ggplot2::waiver(),  
  x_title = NULL,  
  x_trans = "identity",  
  y_breaks = NULL,  
  y_expand = NULL,  
  y_include = NULL,  
  y_labels = NULL,  
  y_limits = NULL,  
  y_sec_axis = ggplot2::waiver(),  
  y_title = NULL,  
  y_trans = "identity",  
  col_breaks = NULL,  
  col_continuous = "gradient",
```



```

col_include = NULL,
col_labels = NULL,
col_legend_place = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_title = NULL,
facet_labels = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
facet_layout = NULL,
caption = NULL,
theme = NULL
)

```

Arguments

<code>data</code>	A data frame or tibble.
<code>x</code>	Unquoted x aesthetic variable.
<code>y</code>	Unquoted y aesthetic variable.
<code>col</code>	Unquoted col and fill aesthetic variable.
<code>facet</code>	Unquoted facet aesthetic variable.
<code>facet2</code>	Unquoted second facet variable.
<code>group</code>	Unquoted group aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(., tooltip = "text")</code> .
<code>label</code>	Unquoted label aesthetic variable.
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
<code>titles</code>	A function to format the x, y and col titles, including in <code>rlang</code> lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.

<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>x_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>x_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
<code>x_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>x_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>x_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>y_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>y_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>y_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>y_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>y_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
<code>y_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>y_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>y_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>col_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>col_continuous</code>	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
<code>col_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.
<code>col_legend_place</code>	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
<code>col_legend_ncol</code>	The number of columns for the legend elements.
<code>col_legend_nrow</code>	The number of rows for the legend elements.
<code>col_legend_rev</code>	Reverse the elements of the legend. Defaults to FALSE.
<code>col_limits</code>	A vector to determine the limits of the axis.
<code>col_title</code>	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a named vector of labels (e.g. <code>c("value" = "label", ...)</code>).

facet_ncol	The number of columns of facets. Only applies to a facet layout of "wrap".
facet_nrow	The number of rows of facets. 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	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". Only applies where the facet layout is "grid" and facet scales are not "fixed".
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".
caption	Caption title string.
theme	A ggplot2 theme.

Value

A ggplot object.

Examples

```
library(ggplot2)
gg_label(mtcars, wt, mpg, label = rownames(mtcars))
gg_label(mtcars, wt, mpg, label = rownames(mtcars), alpha = 0.1)
```

gg_line

Line ggplot.

Description

Create a line plot with a wrapper around the ggplot2::geom_line function.

Usage

```
gg_line(
  data = NULL,
  x = NULL,
  y = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  text = NULL,
  stat = "identity",
  position = "identity",
  pal = NULL,
```

```

pal_na = "#7F7F7F",
alpha = 1,
...,
titles = NULL,
title = NULL,
subtitle = NULL,
coord = NULL,
x_breaks = NULL,
x_expand = NULL,
x_include = NULL,
x_labels = NULL,
x_limits = NULL,
x_sec_axis = ggplot2::waiver(),
x_title = NULL,
x_trans = "identity",
y_breaks = NULL,
y_expand = NULL,
y_include = NULL,
y_labels = NULL,
y_limits = NULL,
y_sec_axis = ggplot2::waiver(),
y_title = NULL,
y_trans = "identity",
col_breaks = NULL,
col_continuous = "gradient",
col_include = NULL,
col_labels = NULL,
col_legend_place = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_title = NULL,
facet_labels = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
facet_layout = NULL,
caption = NULL,
theme = NULL
)

```

Arguments

<code>data</code>	A data frame or tibble.
<code>x</code>	Unquoted x aesthetic variable.
<code>y</code>	Unquoted y aesthetic variable.

col	Unquoted col and fill aesthetic variable.
facet	Unquoted facet aesthetic variable.
facet2	Unquoted second facet variable.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(, tooltip = "text")</code> .
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
pal	Colours to use. A character vector of hex codes (or names).
pal_na	Colour to use for NA values. A character vector of a hex code (or name).
alpha	Opacity. A number between 0 and 1.
...	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
titles	A function to format the x, y and col titles, including in <code>rlang</code> lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
x_expand	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
x_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
x_labels	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
x_limits	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
x_sec_axis	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
x_title	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
x_trans	For a numeric variable, a transformation object (e.g. "log10").
y_breaks	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
y_expand	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
y_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
y_labels	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
y_limits	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
y_sec_axis	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.

<code>y_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>y_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>col_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>col_continuous</code>	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
<code>col_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.
<code>col_legend_place</code>	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
<code>col_legend_ncol</code>	The number of columns for the legend elements.
<code>col_legend_nrow</code>	The number of rows for the legend elements.
<code>col_legend_rev</code>	Reverse the elements of the legend. Defaults to FALSE.
<code>col_limits</code>	A vector to determine the limits of the axis.
<code>col_title</code>	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a named vector of labels (e.g. <code>c("value" = "label", ...)</code>).
<code>facet_ncol</code>	The number of columns of facets. Only applies to a facet layout of "wrap".
<code>facet_nrow</code>	The number of rows of facets. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>facet_space</code>	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". Only applies where the facet layout is "grid" and facet scales are not "fixed".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both facet and <code>facet2</code> arguments are provided, defaults to "grid".
<code>caption</code>	Caption title string.
<code>theme</code>	A ggplot2 theme.

Value

A ggplot object.

Examples

```
library(ggplot2)
gg_line(economics, x = date, y = unemploy)
gg_line(economics, x = date, y = unemploy, linetype = 2)
gg_line(economics_long, x = date, y = value01, col = variable)
gg_line(economics, x = unemploy, y = date, orientation = "y")
```

`gg_linerange`*Linerange ggplot.*

Description

Create a linerange plot with a wrapper around the `ggplot2::geom_linerange` function.

Usage

```
gg_linerange(  
  data = NULL,  
  x = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  y = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  text = NULL,  
  stat = "identity",  
  position = "identity",  
  pal = NULL,  
  pal_na = "#7F7F7F",  
  alpha = 1,  
  ...,  
  titles = NULL,  
  title = NULL,  
  subtitle = NULL,  
  coord = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_include = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_sec_axis = ggplot2::waiver(),  
  x_title = NULL,
```

```

x_trans = "identity",
y_breaks = NULL,
y_expand = NULL,
y_include = NULL,
y_labels = NULL,
y_limits = NULL,
y_sec_axis = ggplot2::waiver(),
y_title = NULL,
y_trans = "identity",
col_breaks = NULL,
col_continuous = "gradient",
col_include = NULL,
col_labels = NULL,
col_legend_place = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_title = NULL,
facet_labels = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
facet_layout = NULL,
caption = NULL,
theme = NULL
)

```

Arguments

<code>data</code>	A data frame or tibble.
<code>x</code>	Unquoted x aesthetic variable.
<code>xmin</code>	Unquoted xmin aesthetic variable.
<code>xmax</code>	Unquoted xmax aesthetic variable.
<code>y</code>	Unquoted y aesthetic variable.
<code>ymin</code>	Unquoted ymin aesthetic variable.
<code>ymax</code>	Unquoted ymax aesthetic variable.
<code>col</code>	Unquoted col and fill aesthetic variable.
<code>facet</code>	Unquoted facet aesthetic variable.
<code>facet2</code>	Unquoted second facet variable.
<code>group</code>	Unquoted group aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(., tooltip = "text")</code> .
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").

position	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
pal	Colours to use. A character vector of hex codes (or names).
pal_na	Colour to use for NA values. A character vector of a hex code (or name).
alpha	Opacity. A number between 0 and 1.
...	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
titles	A function to format the x, y and col titles, including in <code>rlang</code> lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
x_expand	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
x_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
x_labels	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
x_limits	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
x_sec_axis	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
x_title	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
x_trans	For a numeric variable, a transformation object (e.g. "log10").
y_breaks	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
y_expand	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
y_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
y_labels	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
y_limits	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
y_sec_axis	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
y_title	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
y_trans	For a numeric variable, a transformation object (e.g. "log10").
col_breaks	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
col_continuous	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).

<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.
<code>col_legend_place</code>	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
<code>col_legend_ncol</code>	The number of columns for the legend elements.
<code>col_legend_nrow</code>	The number of rows for the legend elements.
<code>col_legend_rev</code>	Reverse the elements of the legend. Defaults to FALSE.
<code>col_limits</code>	A vector to determine the limits of the axis.
<code>col_title</code>	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a named vector of labels (e.g. <code>c("value" = "label", ...)</code>).
<code>facet_ncol</code>	The number of columns of facets. Only applies to a facet layout of "wrap".
<code>facet_nrow</code>	The number of rows of facets. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>facet_space</code>	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". Only applies where the facet layout is "grid" and facet scales are not "fixed".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or facet2) argument is provided, then defaults to "wrap". If NULL and both facet and facet2 arguments are provided, defaults to "grid".
<code>caption</code>	Caption title string.
<code>theme</code>	A ggplot2 theme.

Value

A ggplot object.

Examples

```
library(ggplot2)

df <- 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(df, x = trt, ymin = lower, ymax = upper, col = group,
             position = position_dodge(width = 0.2))
```

gg_path	<i>Path ggplot.</i>
---------	---------------------

Description

Create a path plot with a wrapper around the `ggplot2::geom_path` function.

Usage

```
gg_path(  
  data = NULL,  
  x = NULL,  
  y = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  text = NULL,  
  stat = "identity",  
  position = "identity",  
  pal = NULL,  
  pal_na = "#7F7F7F",  
  alpha = 1,  
  ...,  
  titles = NULL,  
  title = NULL,  
  subtitle = NULL,  
  coord = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_include = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_sec_axis = ggplot2::waiver(),  
  x_title = NULL,  
  x_trans = "identity",  
  y_breaks = NULL,  
  y_expand = NULL,  
  y_include = NULL,  
  y_labels = NULL,  
  y_limits = NULL,  
  y_sec_axis = ggplot2::waiver(),  
  y_title = NULL,  
  y_trans = "identity",  
  col_breaks = NULL,  
  col_continuous = "gradient",  
  col_include = NULL,  
)
```

```

col_labels = NULL,
col_legend_place = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_title = NULL,
facet_labels = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
facet_layout = NULL,
caption = NULL,
theme = NULL
)

```

Arguments

<code>data</code>	A data frame or tibble.
<code>x</code>	Unquoted x aesthetic variable.
<code>y</code>	Unquoted y aesthetic variable.
<code>col</code>	Unquoted col and fill aesthetic variable.
<code>facet</code>	Unquoted facet aesthetic variable.
<code>facet2</code>	Unquoted second facet variable.
<code>group</code>	Unquoted group aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(., tooltip = "text")</code> .
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
<code>titles</code>	A function to format the x, y and col titles, including in <code>rlang</code> lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).

x_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
x_labels	A function that takes the breaks as inputs (e.g. scales::label_comma()), or a vector of labels.
x_limits	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using coord = coord_cartesian(xlim = ...).
x_sec_axis	A secondary axis using the ggplot2::sec_axis or ggplot2::dup_axis function.
x_title	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
x_trans	For a numeric variable, a transformation object (e.g. "log10").
y_breaks	A function on the limits (e.g. scales::breaks_pretty()), or a vector of breaks.
y_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
y_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
y_labels	A function that takes the breaks as inputs (e.g. scales::label_comma()), or a vector of labels.
y_limits	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using coord = coord_cartesian(ylim = ...).
y_sec_axis	A secondary axis using the ggplot2::sec_axis or ggplot2::dup_axis function.
y_title	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
y_trans	For a numeric variable, a transformation object (e.g. "log10").
col_breaks	A function on the limits (e.g. scales::breaks_pretty()), or a vector of breaks.
col_continuous	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_labels	A function that takes the breaks as inputs (e.g. scales::label_comma()), or a vector of labels. Note this does not affect where col_intervals is not NULL.
col_legend_place	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_legend_rev	Reverse the elements of the legend. Defaults to FALSE.
col_limits	A vector to determine the limits of the axis.
col_title	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
facet_labels	A function that takes the breaks as inputs (e.g. scales::label_comma()), or a named vector of labels (e.g. c("value" = "label", ...)).
facet_ncol	The number of columns of facets. Only applies to a facet layout of "wrap".

facet_nrow	The number of rows of facets. 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	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". Only applies where the facet layout is "grid" and facet scales are not "fixed".
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".
caption	Caption title string.
theme	A ggplot2 theme.

Value

A ggplot object.

Examples

```
library(ggplot2)

economics %>%
  dplyr::mutate(unemploy_rate = unemploy / pop) %>%
  gg_path(x = unemploy_rate, y = psavert)
```

gg_point

Point ggplot.

Description

Create a point plot with a wrapper around the ggplot2::geom_point function.

Usage

```
gg_point(
  data = NULL,
  x = NULL,
  y = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  text = NULL,
  stat = "identity",
  position = "identity",
```

```
pal = NULL,  
pal_na = "#7F7F7F",  
alpha = 1,  
...,  
titles = NULL,  
title = NULL,  
subtitle = NULL,  
coord = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_include = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_sec_axis = ggplot2::waiver(),  
x_title = NULL,  
x_trans = "identity",  
y_breaks = NULL,  
y_expand = NULL,  
y_include = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_sec_axis = ggplot2::waiver(),  
y_title = NULL,  
y_trans = "identity",  
col_breaks = NULL,  
col_continuous = "gradient",  
col_include = NULL,  
col_labels = NULL,  
col_legend_place = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_title = NULL,  
facet_labels = NULL,  
facet_ncol = NULL,  
facet_nrow = NULL,  
facet_scales = "fixed",  
facet_space = "fixed",  
facet_layout = NULL,  
caption = NULL,  
theme = NULL  
)
```

Arguments

data	A data frame or tibble.
x	Unquoted x aesthetic variable.

<code>y</code>	Unquoted y aesthetic variable.
<code>col</code>	Unquoted col and fill aesthetic variable.
<code>facet</code>	Unquoted facet aesthetic variable.
<code>facet2</code>	Unquoted second facet variable.
<code>group</code>	Unquoted group aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(, tooltip = "text")</code> .
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
<code>titles</code>	A function to format the x, y and col titles, including in <code>rlang</code> lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>x_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>x_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
<code>x_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>x_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>x_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>y_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>y_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>y_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>y_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>y_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
<code>y_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.

<code>y_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>y_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>col_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>col_continuous</code>	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
<code>col_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.
<code>col_legend_place</code>	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
<code>col_legend_ncol</code>	The number of columns for the legend elements.
<code>col_legend_nrow</code>	The number of rows for the legend elements.
<code>col_legend_rev</code>	Reverse the elements of the legend. Defaults to FALSE.
<code>col_limits</code>	A vector to determine the limits of the axis.
<code>col_title</code>	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a named vector of labels (e.g. <code>c("value" = "label", ...)</code>).
<code>facet_ncol</code>	The number of columns of facets. Only applies to a facet layout of "wrap".
<code>facet_nrow</code>	The number of rows of facets. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>facet_space</code>	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". Only applies where the facet layout is "grid" and facet scales are not "fixed".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both facet and <code>facet2</code> arguments are provided, defaults to "grid".
<code>caption</code>	Caption title string.
<code>theme</code>	A ggplot2 theme.

Value

A ggplot object.

Examples

```
library(ggplot2)

gg_point(mtcars, x = wt, y = mpg)
gg_point(mtcars, x = wt, y = mpg, col = cyl)

mtcars %>%
  dplyr::mutate(cyl = factor(cyl)) %>%
  gg_point(x = wt, y = mpg, col = cyl, size = 1)

gg_point(diamonds, x = carat, y = price, alpha = 0.01)
```

gg_pointrange

Pointrange ggplot.

Description

Create a pointrange plot with a wrapper around the `ggplot2::geom_pointrange` function.

Usage

```
gg_pointrange(
  data = NULL,
  x = NULL,
  xmin = NULL,
  xmax = NULL,
  y = NULL,
  ymin = NULL,
  ymax = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  text = NULL,
  stat = "identity",
  position = "identity",
  pal = NULL,
  pal_na = "#7F7F7F",
  alpha = 1,
  ...,
  titles = NULL,
  title = NULL,
  subtitle = NULL,
  coord = NULL,
  x_breaks = NULL,
  x_expand = NULL,
```

```

x_include = NULL,
x_labels = NULL,
x_limits = NULL,
x_sec_axis = ggplot2::waiver(),
x_title = NULL,
x_trans = "identity",
y_breaks = NULL,
y_expand = NULL,
y_include = NULL,
y_labels = NULL,
y_limits = NULL,
y_sec_axis = ggplot2::waiver(),
y_title = NULL,
y_trans = "identity",
col_breaks = NULL,
col_continuous = "gradient",
col_include = NULL,
col_labels = NULL,
col_legend_place = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_title = NULL,
facet_labels = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
facet_layout = NULL,
caption = NULL,
theme = NULL
)

```

Arguments

data	A data frame or tibble.
x	Unquoted x aesthetic variable.
xmin	Unquoted xmin aesthetic variable.
xmax	Unquoted xmax aesthetic variable.
y	Unquoted y aesthetic variable.
ymin	Unquoted ymin aesthetic variable.
ymax	Unquoted ymax aesthetic variable.
col	Unquoted col and fill aesthetic variable.
facet	Unquoted facet aesthetic variable.
facet2	Unquoted second facet variable.

<code>group</code>	Unquoted group aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(., tooltip = "text")</code> .
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
<code>titles</code>	A function to format the x, y and col titles, including in <code>rlang</code> lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>x_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>x_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
<code>x_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>x_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>x_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>y_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>y_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>y_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>y_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>y_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
<code>y_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>y_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>y_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>col_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.

<code>col_continuous</code>	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
<code>col_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.
<code>col_legend_place</code>	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
<code>col_legend_ncol</code>	The number of columns for the legend elements.
<code>col_legend_nrow</code>	The number of rows for the legend elements.
<code>col_legend_rev</code>	Reverse the elements of the legend. Defaults to FALSE.
<code>col_limits</code>	A vector to determine the limits of the axis.
<code>col_title</code>	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a named vector of labels (e.g. <code>c("value" = "label", ...)</code>).
<code>facet_ncol</code>	The number of columns of facets. Only applies to a facet layout of "wrap".
<code>facet_nrow</code>	The number of rows of facets. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>facet_space</code>	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". Only applies where the facet layout is "grid" and facet scales are not "fixed".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
<code>caption</code>	Caption title string.
<code>theme</code>	A ggplot2 theme.

Value

A ggplot object.

Examples

```
library(ggplot2)

df <- 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(df, x = trt, y = resp, col = group, ymin = lower, ymax = upper,
              position = position_dodge(width = 0.2))
```

gg_polygon

polygon ggplot.

Description

Create a polygon plot with a wrapper around the ggplot2::geom_polygon function.

Usage

```
gg_polygon(
  data = NULL,
  x = NULL,
  y = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  subgroup = NULL,
  text = NULL,
  stat = "identity",
  position = "identity",
  pal = NULL,
  pal_na = "#7F7F7F",
  alpha = 0.9,
  ...,
  titles = NULL,
  title = NULL,
  subtitle = NULL,
  coord = NULL,
  x_breaks = NULL,
  x_expand = NULL,
  x_include = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_sec_axis = ggplot2::waiver(),
  x_title = NULL,
  x_trans = "identity",
  y_breaks = NULL,
  y_expand = NULL,
  y_include = NULL,
```

```

  y_labels = NULL,
  y_limits = NULL,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
  col_continuous = "gradient",
  col_include = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_legend_rev = FALSE,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  facet_space = "fixed",
  facet_layout = NULL,
  caption = NULL,
  theme = NULL
)

```

Arguments

<code>data</code>	A data frame or tibble.
<code>x</code>	Unquoted x aesthetic variable.
<code>y</code>	Unquoted y aesthetic variable.
<code>col</code>	Unquoted col and fill aesthetic variable.
<code>facet</code>	Unquoted facet aesthetic variable.
<code>facet2</code>	Unquoted second facet variable.
<code>group</code>	Unquoted group aesthetic variable.
<code>subgroup</code>	Unquoted subgroup aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(., tooltip = "text")</code> .
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.

<code>titles</code>	A function to format the x, y and col titles, including in rlang lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>x_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>x_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
<code>x_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>x_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>x_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>y_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>y_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>y_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>y_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>y_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
<code>y_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>y_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>y_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>col_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>col_continuous</code>	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
<code>col_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.
<code>col_legend_place</code>	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
<code>col_legend_ncol</code>	The number of columns for the legend elements.

col_legend_nrow	The number of rows for the legend elements.
col_legend_rev	Reverse the elements of the legend. Defaults to FALSE.
col_limits	A vector to determine the limits of the axis.
col_title	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
facet_labels	A function that takes the breaks as inputs (e.g. scales::label_comma()), or a named vector of labels (e.g. c("value" = "label", ...)).
facet_ncol	The number of columns of facets. Only applies to a facet layout of "wrap".
facet_nrow	The number of rows of facets. 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	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". Only applies where the facet layout is "grid" and facet scales are not "fixed".
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".
caption	Caption title string.
theme	A ggplot2 theme.

Value

A ggplot object.

Examples

```
library(ggplot2)

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

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

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

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

```

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

holes <-
  do.call(rbind, lapply(split(datapoly, datapoly$id), function(df) {
    df$x <- df$x + 0.5 * (mean(df$x) - df$x)
    df$y <- df$y + 0.5 * (mean(df$y) - df$y)
    df
  })))

datapoly$subid <- 1L
holes$subid <- 2L
datapoly <- rbind(datapoly, holes)

datapoly %>%
  gg_polygon(
    x = x,
    y = y,
    col = value,
    group = id,
    subgroup = subid
  )

```

gg_qq

Qq ggplot.

Description

Create a qq plot with a wrapper around the `ggplot2::geom_qq` function.

Usage

```

gg_qq(
  data = NULL,
  sample = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  text = NULL,
  x = NULL,
  y = NULL,
  stat = "qq",
  position = "identity",
  pal = NULL,
  pal_na = "#7F7F7F",

```

```
alpha = 1,  
  ...,  
  titles = NULL,  
  title = NULL,  
  subtitle = NULL,  
  coord = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_include = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_sec_axis = ggplot2::waiver(),  
  x_title = NULL,  
  x_trans = "identity",  
  y_breaks = NULL,  
  y_expand = NULL,  
  y_include = NULL,  
  y_labels = NULL,  
  y_limits = NULL,  
  y_sec_axis = ggplot2::waiver(),  
  y_title = NULL,  
  y_trans = "identity",  
  col_breaks = NULL,  
  col_continuous = "gradient",  
  col_include = NULL,  
  col_labels = NULL,  
  col_legend_place = NULL,  
  col_legend_ncol = NULL,  
  col_legend_nrow = NULL,  
  col_legend_rev = FALSE,  
  col_limits = NULL,  
  col_title = NULL,  
  facet_labels = NULL,  
  facet_ncol = NULL,  
  facet_nrow = NULL,  
  facet_scales = "fixed",  
  facet_space = "fixed",  
  facet_layout = NULL,  
  caption = NULL,  
  theme = NULL  
)
```

Arguments

data	A data frame or tibble.
sample	Unquoted sample aesthetic variable.
col	Unquoted col and fill aesthetic variable.
facet	Unquoted facet aesthetic variable.

<code>facet2</code>	Unquoted second facet variable.
<code>group</code>	Unquoted group aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(., tooltip = "text")</code> .
<code>x</code>	Unquoted x aesthetic variable.
<code>y</code>	Unquoted y aesthetic variable.
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
<code>titles</code>	A function to format the x, y and col titles, including in <code>rlang</code> lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>x_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>x_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
<code>x_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>x_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>x_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>y_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>y_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>y_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>y_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>y_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
<code>y_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.

<code>y_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>y_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>col_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>col_continuous</code>	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
<code>col_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.
<code>col_legend_place</code>	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
<code>col_legend_ncol</code>	The number of columns for the legend elements.
<code>col_legend_nrow</code>	The number of rows for the legend elements.
<code>col_legend_rev</code>	Reverse the elements of the legend. Defaults to FALSE.
<code>col_limits</code>	A vector to determine the limits of the axis.
<code>col_title</code>	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a named vector of labels (e.g. <code>c("value" = "label", ...)</code>).
<code>facet_ncol</code>	The number of columns of facets. Only applies to a facet layout of "wrap".
<code>facet_nrow</code>	The number of rows of facets. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>facet_space</code>	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". Only applies where the facet layout is "grid" and facet scales are not "fixed".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both facet and <code>facet2</code> arguments are provided, defaults to "grid".
<code>caption</code>	Caption title string.
<code>theme</code>	A <code>ggplot2</code> theme.

Value

A `ggplot` object.

Examples

```
library(ggplot2)
df <- data.frame(y = rt(200, df = 5))

gg_qq(df, sample = y, distribution = stats::qnorm) +
  geom_qq_line(distribution = stats::qnorm)
```

gg_raster

Raster ggplot.

Description

Create a raster plot with a wrapper around the `ggplot2::geom_raster` function.

Usage

```
gg_raster(
  data = NULL,
  x = NULL,
  y = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  text = NULL,
  stat = "identity",
  position = "identity",
  pal = NULL,
  pal_na = "#7F7F7F",
  alpha = 0.9,
  ...,
  titles = NULL,
  title = NULL,
  subtitle = NULL,
  coord = NULL,
  x_breaks = NULL,
  x_expand = NULL,
  x_include = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_sec_axis = ggplot2::waiver(),
  x_title = NULL,
  x_trans = "identity",
  y_breaks = NULL,
  y_expand = NULL,
  y_include = NULL,
```

```

y_labels = NULL,
y_limits = NULL,
y_sec_axis = ggplot2::waiver(),
y_title = NULL,
y_trans = "identity",
col_breaks = NULL,
col_continuous = "gradient",
col_include = NULL,
col_labels = NULL,
col_legend_place = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_title = NULL,
facet_labels = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
facet_layout = NULL,
caption = NULL,
theme = NULL
)

```

Arguments

<code>data</code>	A data frame or tibble.
<code>x</code>	Unquoted x aesthetic variable.
<code>y</code>	Unquoted y aesthetic variable.
<code>col</code>	Unquoted col and fill aesthetic variable.
<code>facet</code>	Unquoted facet aesthetic variable.
<code>facet2</code>	Unquoted second facet variable.
<code>group</code>	Unquoted group aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(., tooltip = "text")</code> .
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
<code>titles</code>	A function to format the x, y and col titles, including in <code>rlang</code> lambda format. Defaults to <code>snakecase::to_sentence_case</code> .

<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>x_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>x_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
<code>x_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>x_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>x_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>y_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>y_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>y_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>y_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>y_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
<code>y_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>y_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>y_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>col_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>col_continuous</code>	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
<code>col_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.
<code>col_legend_place</code>	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
<code>col_legend_ncol</code>	The number of columns for the legend elements.
<code>col_legend_nrow</code>	The number of rows for the legend elements.
<code>col_legend_rev</code>	Reverse the elements of the legend. Defaults to FALSE.

col_limits	A vector to determine the limits of the axis.
col_title	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
facet_labels	A function that takes the breaks as inputs (e.g. scales::label_comma()), or a named vector of labels (e.g. c("value" = "label", ...)).
facet_ncol	The number of columns of facets. Only applies to a facet layout of "wrap".
facet_nrow	The number of rows of facets. 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	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". Only applies where the facet layout is "grid" and facet scales are not "fixed".
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".
caption	Caption title string.
theme	A ggplot2 theme.

Value

A ggplot object.

Examples

```
library(ggplot2)

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

gg_raster(faithfuld, x = waiting, y = eruptions, col = density,
          x_limits = c(NA, NA), y_limits = c(NA, NA))
```

gg_rect

Rect ggplot.

Description

Create a rect plot with a wrapper around the ggplot2::geom_rect function.

Usage

```
gg_rect(  
  data = NULL,  
  xmin = NULL,  
  xmax = NULL,  
  ymin = NULL,  
  ymax = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  text = NULL,  
  x = NULL,  
  y = NULL,  
  stat = "identity",  
  position = "identity",  
  pal = NULL,  
  pal_na = "#7F7F7F",  
  alpha = 0.9,  
  ...,  
  titles = NULL,  
  title = NULL,  
  subtitle = NULL,  
  coord = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_include = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_sec_axis = ggplot2::waiver(),  
  x_title = NULL,  
  x_trans = "identity",  
  y_breaks = NULL,  
  y_expand = NULL,  
  y_include = NULL,  
  y_labels = NULL,  
  y_limits = NULL,  
  y_sec_axis = ggplot2::waiver(),  
  y_title = NULL,  
  y_trans = "identity",  
  col_breaks = NULL,  
  col_continuous = "gradient",  
  col_include = NULL,  
  col_labels = NULL,  
  col_legend_place = NULL,  
  col_legend_ncol = NULL,  
  col_legend_nrow = NULL,  
  col_legend_rev = FALSE,
```

```

  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  facet_space = "fixed",
  facet_layout = NULL,
  caption = NULL,
  theme = NULL
)

```

Arguments

<code>data</code>	A data frame or tibble.
<code>xmin</code>	Unquoted <code>xmin</code> aesthetic variable.
<code>xmax</code>	Unquoted <code>xmax</code> aesthetic variable.
<code>ymin</code>	Unquoted <code>ymin</code> aesthetic variable.
<code>ymax</code>	Unquoted <code>ymax</code> aesthetic variable.
<code>col</code>	Unquoted <code>col</code> and <code>fill</code> aesthetic variable.
<code>facet</code>	Unquoted <code>facet</code> aesthetic variable.
<code>facet2</code>	Unquoted second <code>facet</code> variable.
<code>group</code>	Unquoted <code>group</code> aesthetic variable.
<code>text</code>	Unquoted <code>text</code> aesthetic variable, which can be used in combination with <code>plotly::ggplotly(., tooltip = "text")</code> .
<code>x</code>	Unquoted <code>x</code> aesthetic variable.
<code>y</code>	Unquoted <code>y</code> aesthetic variable.
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
<code>titles</code>	A function to format the <code>x</code> , <code>y</code> and <code>col</code> titles, including in <code>rlang</code> lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).

<code>x_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>x_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>x_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
<code>x_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>x_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>x_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>y_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>y_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>y_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>y_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>y_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
<code>y_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>y_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>y_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>col_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>col_continuous</code>	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
<code>col_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.
<code>col_legend_place</code>	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
<code>col_legend_ncol</code>	The number of columns for the legend elements.
<code>col_legend_nrow</code>	The number of rows for the legend elements.
<code>col_legend_rev</code>	Reverse the elements of the legend. Defaults to FALSE.
<code>col_limits</code>	A vector to determine the limits of the axis.
<code>col_title</code>	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a named vector of labels (e.g. <code>c("value" = "label", ...)</code>).
<code>facet_ncol</code>	The number of columns of facets. Only applies to a facet layout of "wrap".

facet_nrow	The number of rows of facets. 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	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". Only applies where the facet layout is "grid" and facet scales are not "fixed".
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".
caption	Caption title string.
theme	A ggplot2 theme.

Value

A ggplot object.

Examples

```
library(ggplot2)

df <- data.frame(
  x = rep(c(2, 5, 7, 9, 12), 2),
  y = rep(c(1, 2), each = 5),
  z = factor(rep(1:5, each = 2)),
  w = rep(diff(c(0, 4, 6, 8, 10, 14)), 2)
)

df %>%
  dplyr::mutate(xmin = x - w / 2, xmax = x + w / 2, ymin = y, ymax = y + 1) %>%
  gg_rect(xmin = xmin, xmax = xmax, ymin = ymin, ymax = ymax, col = z)
```

gg_ribbon

Ribbon ggplot.

Description

Create a ribbon plot with a wrapper around the ggplot2::geom_ribbon function.

Usage

```
gg_ribbon(
  data = NULL,
  x = NULL,
  y = NULL,
  col = NULL,
```

```
facet = NULL,  
facet2 = NULL,  
group = NULL,  
text = NULL,  
xmin = NULL,  
xmax = NULL,  
ymin = NULL,  
ymax = NULL,  
stat = "identity",  
position = "identity",  
pal = NULL,  
pal_na = "#7F7F7F",  
alpha = 0.5,  
...,  
titles = NULL,  
title = NULL,  
subtitle = NULL,  
coord = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_include = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_sec_axis = ggplot2::waiver(),  
x_title = NULL,  
x_trans = "identity",  
y_breaks = NULL,  
y_expand = NULL,  
y_include = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_sec_axis = ggplot2::waiver(),  
y_title = NULL,  
y_trans = "identity",  
col_breaks = NULL,  
col_continuous = "gradient",  
col_include = NULL,  
col_labels = NULL,  
col_legend_place = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_title = NULL,  
facet_labels = NULL,  
facet_ncol = NULL,  
facet_nrow = NULL,  
facet_scales = "fixed",
```

```

  facet_space = "fixed",
  facet_layout = NULL,
  caption = NULL,
  theme = NULL
)

```

Arguments

<code>data</code>	A data frame or tibble.
<code>x</code>	Unquoted x aesthetic variable.
<code>y</code>	Unquoted y aesthetic variable.
<code>col</code>	Unquoted col and fill aesthetic variable.
<code>facet</code>	Unquoted facet aesthetic variable.
<code>facet2</code>	Unquoted second facet variable.
<code>group</code>	Unquoted group aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(., tooltip = "text")</code> .
<code>xmin</code>	Unquoted xmin aesthetic variable.
<code>xmax</code>	Unquoted xmax aesthetic variable.
<code>ymin</code>	Unquoted ymin aesthetic variable.
<code>ymax</code>	Unquoted ymax aesthetic variable.
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
<code>titles</code>	A function to format the x, y and col titles, including in <code>rlang</code> lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>x_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>x_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .

<code>x_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>x_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>x_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>y_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>y_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>y_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>y_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>y_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
<code>y_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>y_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>y_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>col_breaks</code>	A function on the limits (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>col_continuous</code>	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
<code>col_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.
<code>col_legend_place</code>	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
<code>col_legend_ncol</code>	The number of columns for the legend elements.
<code>col_legend_nrow</code>	The number of rows for the legend elements.
<code>col_legend_rev</code>	Reverse the elements of the legend. Defaults to FALSE.
<code>col_limits</code>	A vector to determine the limits of the axis.
<code>col_title</code>	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a named vector of labels (e.g. <code>c("value" = "label", ...)</code>).
<code>facet_ncol</code>	The number of columns of facets. Only applies to a facet layout of "wrap".
<code>facet_nrow</code>	The number of rows of facets. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>facet_space</code>	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". Only applies where the facet layout is "grid" and facet scales are not "fixed".

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".
caption	Caption title string.
theme	A ggplot2 theme.

Value

A ggplot object.

Examples

```
library(ggplot2)
huron <- data.frame(year = 1875:1972, level = as.vector(LakeHuron))

huron %>%
  gg_ribbon(
    x = year,
    ymin = 0,
    ymax = level,
    x_labels = ~.x,
    alpha = 0.9)

huron %>%
  gg_ribbon(
    x = year,
    ymin = level - 1,
    ymax = level + 1,
    pal = scales::alpha(pal_viridis_mix(1), 0)) +
  geom_line(aes(x = year, y = level), col = pal_viridis_mix(1))
```

gg_segment

Segment ggplot.

Description

Create a segment plot with a wrapper around the ggplot2::geom_segment function.

Usage

```
gg_segment(
  data = NULL,
  x = NULL,
  xend = NULL,
  y = NULL,
  yend = NULL,
  col = NULL,
```

```
facet = NULL,  
facet2 = NULL,  
group = NULL,  
text = NULL,  
stat = "identity",  
position = "identity",  
pal = NULL,  
pal_na = "#7F7F7F",  
alpha = 1,  
...,  
titles = NULL,  
title = NULL,  
subtitle = NULL,  
coord = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_include = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_sec_axis = ggplot2::waiver(),  
x_title = NULL,  
x_trans = "identity",  
y_breaks = NULL,  
y_expand = NULL,  
y_include = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_sec_axis = ggplot2::waiver(),  
y_title = NULL,  
y_trans = "identity",  
col_breaks = NULL,  
col_continuous = "gradient",  
col_include = NULL,  
col_labels = NULL,  
col_legend_place = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_title = NULL,  
facet_labels = NULL,  
facet_ncol = NULL,  
facet_nrow = NULL,  
facet_scales = "fixed",  
facet_space = "fixed",  
facet_layout = NULL,  
caption = NULL,  
theme = NULL
```

)

Arguments

<code>data</code>	A data frame or tibble.
<code>x</code>	Unquoted x aesthetic variable.
<code>xend</code>	Unquoted xend aesthetic variable.
<code>y</code>	Unquoted y aesthetic variable.
<code>yend</code>	Unquoted yend aesthetic variable.
<code>col</code>	Unquoted col and fill aesthetic variable.
<code>facet</code>	Unquoted facet aesthetic variable.
<code>facet2</code>	Unquoted second facet variable.
<code>group</code>	Unquoted group aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(., tooltip = "text")</code> .
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
<code>titles</code>	A function to format the x, y and col titles, including in rlang lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function that takes the limits as input (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>x_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>x_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
<code>x_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>x_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>x_trans</code>	For a numeric variable, a transformation object (e.g. "log10").

<code>y_breaks</code>	A function that takes the limits as input (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>y_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>y_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>y_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>y_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
<code>y_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>y_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>y_trans</code>	For a numeric variable, a transformation object (e.g. <code>"log10"</code>).
<code>col_breaks</code>	A function that takes the limits as input (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>col_continuous</code>	Type of colouring for a continuous variable. Either <code>"gradient"</code> or <code>"steps"</code> . Defaults to <code>"steps"</code> .
<code>col_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.
<code>col_legend_place</code>	The place for the legend. <code>"b"</code> for bottom, <code>"r"</code> for right, <code>"t"</code> for top, or <code>"l"</code> for left. Defaults to <code>"b"</code> .
<code>col_legend_ncol</code>	The number of columns for the legend elements.
<code>col_legend_nrow</code>	The number of rows for the legend elements.
<code>col_legend_rev</code>	Reverse the elements of the legend. Defaults to <code>FALSE</code> .
<code>col_limits</code>	A vector to determine the limits of the axis.
<code>col_title</code>	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a named vector of labels (e.g. <code>c("value" = "label", ...)</code>).
<code>facet_ncol</code>	The number of columns of facets. Only applies to a facet layout of <code>"wrap"</code> .
<code>facet_nrow</code>	The number of rows of facets. Only applies to a facet layout of <code>"wrap"</code> .
<code>facet_scales</code>	Whether facet scales should be <code>"fixed"</code> across facets, <code>"free"</code> in both directions, or free in just one direction (i.e. <code>"free_x"</code> or <code>"free_y"</code>). Defaults to <code>"fixed"</code> .
<code>facet_space</code>	Whether facet space should be <code>"fixed"</code> across facets, <code>"free"</code> to be proportional in both directions, or free to be proportional in just one direction (i.e. <code>"free_x"</code> or <code>"free_y"</code>). Only applies where the facet layout is a <code>'grid'</code> and <code>facet_scales</code> are not fixed. Defaults to <code>"fixed"</code> .

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".
caption	Caption title string.
theme	A ggplot2 theme.

Value

A ggplot object.

Examples

```
library(ggplot2)
df <- data.frame(x1 = 2.62, x2 = 3.57, y1 = 21.0, y2 = 15.0)

gg_segment(df, x = x1, y = y1, xend = x2, yend = y2)
```

gg_sf

Sf ggplot.

Description

Create a sf plot with a wrapper around the ggplot2:: %>% function.

Usage

```
gg_sf(
  data = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  text = NULL,
  stat = "sf",
  position = "identity",
  pal = NULL,
  pal_na = "#7F7F7F",
  alpha = 0.9,
  ...,
  titles = NULL,
  title = NULL,
  subtitle = NULL,
  coord = ggplot2::coord_sf(),
  col_breaks = NULL,
  col_continuous = "gradient",
  col_include = NULL,
```

```

col_labels = NULL,
col_legend_place = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_title = NULL,
facet_labels = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_layout = NULL,
caption = NULL,
theme = NULL
)

```

Arguments

<code>data</code>	A sf object.
<code>col</code>	Unquoted col and fill aesthetic variable.
<code>facet</code>	Unquoted facet aesthetic variable.
<code>facet2</code>	Unquoted second facet variable.
<code>group</code>	Unquoted group aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(., tooltip = "text")</code> .
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
<code>titles</code>	A function to format the x, y and col titles, including in rlang lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>col_breaks</code>	A function that takes the limits as input (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>col_continuous</code>	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
<code>col_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.

col_legend_place	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_legend_rev	Reverse the elements of the legend. Defaults to FALSE.
col_limits	A vector to determine the limits of the axis.
col_title	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
facet_labels	A function that takes the breaks as inputs (e.g. scales::label_comma()), or a named vector of labels (e.g. c("value" = "label", ...)).
facet_ncol	The number of columns of facets. Only applies to a facet layout of "wrap".
facet_nrow	The number of rows of facets. Only applies to a facet layout of "wrap".
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".
caption	Caption title string.
theme	A ggplot2 theme.

Value

A ggplot object.

Examples

```
if (requireNamespace("sf", quietly = TRUE)) {
  library(ggplot2)
  nc <- sf::st_read(system.file("shape/nc.shp", package = "sf"), quiet = TRUE)

  gg_sf(nc, col = AREA, col_legend_place = "b")
}
```

gg_smooth

Smooth ggplot.

Description

Create a smooth plot with a wrapper around the ggplot2::geom_smooth function.

Usage

```
gg_smooth(  
  data = NULL,  
  x = NULL,  
  y = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  text = NULL,  
  stat = "smooth",  
  position = "identity",  
  pal = NULL,  
  pal_na = "#7F7F7F",  
  alpha = 0.5,  
  ...,  
  titles = NULL,  
  title = NULL,  
  subtitle = NULL,  
  coord = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_include = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_sec_axis = ggplot2::waiver(),  
  x_title = NULL,  
  x_trans = "identity",  
  y_breaks = NULL,  
  y_expand = NULL,  
  y_include = NULL,  
  y_labels = NULL,  
  y_limits = NULL,  
  y_sec_axis = ggplot2::waiver(),  
  y_title = NULL,  
  y_trans = "identity",  
  col_breaks = NULL,  
  col_continuous = "gradient",  
  col_include = NULL,  
  col_labels = NULL,  
  col_legend_place = NULL,  
  col_legend_ncol = NULL,  
  col_legend_nrow = NULL,  
  col_legend_rev = FALSE,  
  col_limits = NULL,  
  col_title = NULL,  
  facet_labels = NULL,  
  facet_ncol = NULL,
```



```

facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
facet_layout = NULL,
caption = NULL,
theme = NULL
)

```

Arguments

<code>data</code>	A data frame or tibble.
<code>x</code>	Unquoted x aesthetic variable.
<code>y</code>	Unquoted y aesthetic variable.
<code>col</code>	Unquoted col and fill aesthetic variable.
<code>facet</code>	Unquoted facet aesthetic variable.
<code>facet2</code>	Unquoted second facet variable.
<code>group</code>	Unquoted group aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(., tooltip = "text")</code> .
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
<code>titles</code>	A function to format the x, y and col titles, including in <code>rlang</code> lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function that takes the limits as input (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>x_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>x_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
<code>x_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.

<code>x_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>x_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>y_breaks</code>	A function that takes the limits as input (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>y_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>y_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>y_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>y_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
<code>y_sec_axis</code>	A secondary axis using the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>y_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>y_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>col_breaks</code>	A function that takes the limits as input (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>col_continuous</code>	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
<code>col_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.
<code>col_legend_place</code>	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
<code>col_legend_ncol</code>	The number of columns for the legend elements.
<code>col_legend_nrow</code>	The number of rows for the legend elements.
<code>col_legend_rev</code>	Reverse the elements of the legend. Defaults to FALSE.
<code>col_limits</code>	A vector to determine the limits of the axis.
<code>col_title</code>	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a named vector of labels (e.g. <code>c("value" = "label", ...)</code>).
<code>facet_ncol</code>	The number of columns of facets. Only applies to a facet layout of "wrap".
<code>facet_nrow</code>	The number of rows of facets. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

facet_space	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"). Only applies where the facet layout is a 'grid' and facet_scales are not fixed. Defaults to "fixed".
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".
caption	Caption title string.
theme	A ggplot2 theme.

Value

A ggplot object.

Examples

```
library(ggplot2)

gg_smooth(mpg, x = displ, y = hwy)

gg_smooth(mpg, x = displ, y = hwy) +
  geom_point()

gg_smooth(mpg, x = hwy, y = displ) +
  geom_point()

gg_smooth(mpg, x = hwy, y = displ, orientation = "y") +
  geom_point()

gg_smooth(mpg, x = displ, y = hwy, method = "lm") +
  geom_point()
```

 gg_step

Step ggplot.

Description

Create a step plot with a wrapper around the ggplot2::geom_step function.

Usage

```
gg_step(
  data = NULL,
  x = NULL,
  y = NULL,
  col = NULL,
  facet = NULL,
```

```
facet2 = NULL,  
group = NULL,  
text = NULL,  
stat = "identity",  
position = "identity",  
pal = NULL,  
pal_na = "#7F7F7F",  
alpha = 1,  
...,  
titles = NULL,  
title = NULL,  
subtitle = NULL,  
coord = NULL,  
x_breaks = NULL,  
x_expand = NULL,  
x_include = NULL,  
x_labels = NULL,  
x_limits = NULL,  
x_sec_axis = ggplot2::waiver(),  
x_title = NULL,  
x_trans = "identity",  
y_breaks = NULL,  
y_expand = NULL,  
y_include = NULL,  
y_labels = NULL,  
y_limits = NULL,  
y_sec_axis = ggplot2::waiver(),  
y_title = NULL,  
y_trans = "identity",  
col_breaks = NULL,  
col_continuous = "gradient",  
col_include = NULL,  
col_labels = NULL,  
col_legend_place = NULL,  
col_legend_ncol = NULL,  
col_legend_nrow = NULL,  
col_legend_rev = FALSE,  
col_limits = NULL,  
col_title = NULL,  
facet_labels = NULL,  
facet_ncol = NULL,  
facet_nrow = NULL,  
facet_scales = "fixed",  
facet_space = "fixed",  
facet_layout = NULL,  
caption = NULL,  
theme = NULL  
)
```

Arguments

<code>data</code>	A data frame or tibble.
<code>x</code>	Unquoted x aesthetic variable.
<code>y</code>	Unquoted y aesthetic variable.
<code>col</code>	Unquoted col and fill aesthetic variable.
<code>facet</code>	Unquoted facet aesthetic variable.
<code>facet2</code>	Unquoted second facet variable for a facet grid of facet by facet2 variables.
<code>group</code>	Unquoted group aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(., tooltip = "text")</code> .
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
<code>titles</code>	A function to format the x, y and col titles, including in rlang lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function that takes the limits as input (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>x_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>x_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
<code>x_sec_axis</code>	A secondary axis specified by the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>x_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>x_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>y_breaks</code>	A function that takes the limits as input (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>y_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).

<code>y_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>y_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>y_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
<code>y_sec_axis</code>	A secondary axis specified by the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>y_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>y_trans</code>	For a numeric variable, a transformation object (e.g. <code>"log10"</code>).
<code>col_breaks</code>	A function that takes the limits as input (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>col_continuous</code>	Type of colouring for a continuous variable. Either <code>"gradient"</code> or <code>"steps"</code> . Defaults to <code>"steps"</code> .
<code>col_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.
<code>col_legend_place</code>	The place for the legend. <code>"b"</code> for bottom, <code>"r"</code> for right, <code>"t"</code> for top, or <code>"l"</code> for left. Defaults to <code>"b"</code> .
<code>col_legend_ncol</code>	The number of columns for the legend elements.
<code>col_legend_nrow</code>	The number of rows for the legend elements.
<code>col_legend_rev</code>	Reverse the elements of the legend. Defaults to <code>FALSE</code> .
<code>col_limits</code>	A vector to determine the limits of the axis.
<code>col_title</code>	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a named vector of labels (e.g. <code>c("value" = "label", ...)</code>).
<code>facet_ncol</code>	The number of columns of facets. Only applies to a facet layout of <code>"wrap"</code> .
<code>facet_nrow</code>	The number of rows of facets. Only applies to a facet layout of <code>"wrap"</code> .
<code>facet_scales</code>	Whether facet scales should be <code>"fixed"</code> across facets, <code>"free"</code> in both directions, or free in just one direction (i.e. <code>"free_x"</code> or <code>"free_y"</code>). Defaults to <code>"fixed"</code> .
<code>facet_space</code>	Whether <code>facet_space</code> should be <code>"fixed"</code> across facets, <code>"free"</code> to be proportional in both directions, or free to be proportional in just one direction (i.e. <code>"free_x"</code> or <code>"free_y"</code>). Only applies where the facet layout is a <code>'grid'</code> and <code>facet_scales</code> are not fixed. Defaults to <code>"fixed"</code> .
<code>facet_layout</code>	Whether the layout is to be <code>"wrap"</code> or <code>"grid"</code> . If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to <code>"wrap"</code> . If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to <code>"grid"</code> .
<code>caption</code>	Caption title string.
<code>theme</code>	A <code>ggplot2</code> theme.

Value

A ggplot object.

Examples

```
library(ggplot2)
recent <- economics[economics$date > as.Date("2013-01-01"), ]
gg_step(recent, x = date, y = unemploy)
```

gg_text

Text ggplot.

Description

Create a text plot with a wrapper around the ggplot2::geom_text function.

Usage

```
gg_text(
  data = NULL,
  x = NULL,
  y = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  text = NULL,
  label = NULL,
  stat = "identity",
  position = "identity",
  pal = NULL,
  pal_na = "#7F7F7F",
  alpha = 1,
  ...,
  titles = NULL,
  title = NULL,
  subtitle = NULL,
  coord = NULL,
  x_breaks = NULL,
  x_expand = NULL,
  x_include = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_sec_axis = ggplot2::waiver(),
  x_title = NULL,
  x_trans = "identity",
```

```

y_breaks = NULL,
y_expand = NULL,
y_include = NULL,
y_labels = NULL,
y_limits = NULL,
y_sec_axis = ggplot2::waiver(),
y_title = NULL,
y_trans = "identity",
col_breaks = NULL,
col_continuous = "gradient",
col_include = NULL,
col_labels = NULL,
col_legend_place = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_title = NULL,
facet_labels = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
facet_layout = NULL,
caption = NULL,
theme = NULL
)

```

Arguments

<code>data</code>	A data frame or tibble.
<code>x</code>	Unquoted x aesthetic variable.
<code>y</code>	Unquoted y aesthetic variable.
<code>col</code>	Unquoted col and fill aesthetic variable.
<code>facet</code>	Unquoted facet aesthetic variable.
<code>facet2</code>	Unquoted second facet variable for a facet grid of facet by facet2 variables.
<code>group</code>	Unquoted group aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(., tooltip = "text")</code> .
<code>label</code>	Unquoted label aesthetic variable.
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).

alpha	Opacity. A number between 0 and 1.
...	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
x_expand	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
x_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
x_labels	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
x_limits	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
x_sec_axis	A secondary axis specified by the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
x_title	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
x_trans	For a numeric variable, a transformation object (e.g. "log10").
y_breaks	A function that takes the limits as input (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
y_expand	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
y_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
y_labels	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
y_limits	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
y_sec_axis	A secondary axis specified by the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
y_title	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
y_trans	For a numeric variable, a transformation object (e.g. "log10").
col_breaks	A function that takes the limits as input (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
col_continuous	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).

<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.
<code>col_legend_place</code>	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
<code>col_legend_ncol</code>	The number of columns for the legend elements.
<code>col_legend_nrow</code>	The number of rows for the legend elements.
<code>col_legend_rev</code>	Reverse the elements of the legend. Defaults to FALSE.
<code>col_limits</code>	A vector to determine the limits of the axis.
<code>col_title</code>	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a named vector of labels (e.g. <code>c("value" = "label", ...)</code>).
<code>facet_ncol</code>	The number of columns of facets. Only applies to a facet layout of "wrap".
<code>facet_nrow</code>	The number of rows of facets. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>facet_space</code>	Whether <code>facet_space</code> 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"). Only applies where the facet layout is a 'grid' and <code>facet_scales</code> are not fixed. Defaults to "fixed".
<code>facet_layout</code>	Whether the layout is to be "wrap" or "grid". If NULL and a single facet (or <code>facet2</code>) argument is provided, then defaults to "wrap". If NULL and both <code>facet</code> and <code>facet2</code> arguments are provided, defaults to "grid".
<code>caption</code>	Caption title string.
<code>theme</code>	A ggplot2 theme.

Value

A ggplot object.

Examples

```
library(ggplot2)
gg_text(mtcars, wt, mpg, label = rownames(mtcars), size = 2.5)
```

`gg_theme`*Quick theme for a ggplot.*

Description

Quick theme for a ggplot visualisation.

Usage

```
gg_theme(  
  family = "",  
  title_pal = "#000000",  
  title_family = NULL,  
  title_size = 11,  
  title_face = "bold",  
  subtitle_family = NULL,  
  subtitle_pal = "#323232",  
  subtitle_size = 10,  
  subtitle_face = "plain",  
  body_family = NULL,  
  body_pal = "#323232",  
  body_size = 10,  
  body_face = "plain",  
  caption_family = NULL,  
  caption_pal = "#7F7F7F",  
  caption_size = 9,  
  caption_face = "plain",  
  axis_size = 0.3,  
  axis_pal = "#323232",  
  ticks_size = 0.3,  
  ticks_pal = "#323232",  
  bg_plot_pal = "#F1F3F5",  
  bg_panel_pal = "#FEFEFE",  
  bg_legend_key_pal = "plot",  
  grid_h = FALSE,  
  grid_v = FALSE,  
  grid_pal = "#D3D3D3",  
  grid_size = 0.2,  
  facet_gap_size = 1.5,  
  void = FALSE  
)
```

Arguments

<code>family</code>	The font family for all text to use. Defaults to "".
<code>title_pal</code>	The colour palette for the title family. Defaults to "#000000".

title_family	The font family for the title. If NULL, inherits from family argument.
title_size	The size of the title family. Defaults to 11.
title_face	The font style of the title family. Defaults to "bold".
subtitle_family	The font family for the subtitle. If NULL, inherits from family argument.
subtitle_pal	The colour palette for the subtitle family. Defaults to "#323232".
subtitle_size	The size of the subtitle family. Defaults to 10.
subtitle_face	The font style of the subtitle family. Defaults to "plain".
body_family	The font family for all text other than the title, subtitle and caption. If NULL, inherits from family argument.
body_pal	The colour palette for all text other than the title, subtitle or caption. Defaults to "#323232".
body_size	The size of all text other than the title, subtitle and caption. Defaults to 10.
body_face	The font style of all text other than the title, subtitle or caption. Defaults to "plain".
caption_family	The font family for the caption. If NULL, inherits from family argument.
caption_pal	The colour palette for the caption. Defaults to "#7F7F7F".
caption_size	The size of the caption. Defaults to 9.
caption_face	The font style of the caption. Defaults to "plain".
axis_size	The size of the axis. Defaults to 0.3.
axis_pal	The colour palette for the axis. Defaults to "#323232".
ticks_size	The size of the ticks. Defaults to 0.3.
ticks_pal	The colour palette for the ticks. Defaults to "#323232".
bg_plot_pal	The colour palette for the plot background colour.
bg_panel_pal	The colour palette for the panel background colour.
bg_legend_key_pal	The colour palette for the legend key. Can also use special values of "plot" and "panel".
grid_h	TRUE or FALSE of whether to show horizontal gridlines. Defaults to FALSE.
grid_v	TRUE or FALSE of whether to show vertical gridlines. Defaults to FALSE.
grid_pal	The colour palette for the vertical major gridlines. Defaults to "#D3D3D3".
grid_size	The size of the vertical major gridlines. Defaults to 0.2.
facet_gap_size	The size of the spacing between facet panels in units of "lines". Defaults to 1.5.
void	TRUE or FALSE of whether to remove axis lines, ticks and x and y titles and labels.

Value

A ggplot theme.

`gg_tile`*Tile ggplot.*

Description

Create a tile plot with a wrapper around the `ggplot2::geom_tile` function.

Usage

```
gg_tile(  
  data = NULL,  
  x = NULL,  
  y = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  text = NULL,  
  stat = "identity",  
  position = "identity",  
  pal = NULL,  
  pal_na = "#7F7F7F",  
  alpha = 0.9,  
  ...,  
  titles = NULL,  
  title = NULL,  
  subtitle = NULL,  
  coord = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_include = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_sec_axis = ggplot2::waiver(),  
  x_title = NULL,  
  x_trans = "identity",  
  y_breaks = NULL,  
  y_expand = NULL,  
  y_include = NULL,  
  y_labels = NULL,  
  y_limits = NULL,  
  y_sec_axis = ggplot2::waiver(),  
  y_title = NULL,  
  y_trans = "identity",  
  col_breaks = NULL,  
  col_continuous = "gradient",  
  col_include = NULL,
```

```

col_labels = NULL,
col_legend_place = NULL,
col_legend_ncol = NULL,
col_legend_nrow = NULL,
col_legend_rev = FALSE,
col_limits = NULL,
col_title = NULL,
facet_labels = NULL,
facet_ncol = NULL,
facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
facet_layout = NULL,
caption = NULL,
theme = NULL
)

```

Arguments

<code>data</code>	A data frame or tibble.
<code>x</code>	Unquoted x aesthetic variable.
<code>y</code>	Unquoted y aesthetic variable.
<code>col</code>	Unquoted col and fill aesthetic variable.
<code>facet</code>	Unquoted facet aesthetic variable.
<code>facet2</code>	Unquoted second facet variable for a facet grid of facet by facet2 variables.
<code>group</code>	Unquoted group aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(., tooltip = "text")</code> .
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
<code>titles</code>	A function to format the x, y and col titles, including in <code>rlang</code> lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function that takes the limits as input (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.

<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>x_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>x_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
<code>x_sec_axis</code>	A secondary axis specified by the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>x_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>x_trans</code>	For a numeric variable, a transformation object (e.g. <code>"log10"</code>).
<code>y_breaks</code>	A function that takes the limits as input (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>y_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>y_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>y_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>y_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
<code>y_sec_axis</code>	A secondary axis specified by the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>y_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>y_trans</code>	For a numeric variable, a transformation object (e.g. <code>"log10"</code>).
<code>col_breaks</code>	A function that takes the limits as input (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>col_continuous</code>	Type of colouring for a continuous variable. Either <code>"gradient"</code> or <code>"steps"</code> . Defaults to <code>"steps"</code> .
<code>col_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.
<code>col_legend_place</code>	The place for the legend. <code>"b"</code> for bottom, <code>"r"</code> for right, <code>"t"</code> for top, or <code>"l"</code> for left. Defaults to <code>"b"</code> .
<code>col_legend_ncol</code>	The number of columns for the legend elements.
<code>col_legend_nrow</code>	The number of rows for the legend elements.
<code>col_legend_rev</code>	Reverse the elements of the legend. Defaults to <code>FALSE</code> .
<code>col_limits</code>	A vector to determine the limits of the axis.

col_title	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
facet_labels	A function that takes the breaks as inputs (e.g. scales::label_comma()), or a named vector of labels (e.g. c("value" = "label", ...)).
facet_ncol	The number of columns of facets. Only applies to a facet layout of "wrap".
facet_nrow	The number of rows of facets. 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	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"). Only applies where the facet layout is a 'grid' and facet_scales are not fixed. Defaults to "fixed".
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".
caption	Caption title string.
theme	A ggplot2 theme.

Value

A ggplot object.

Examples

```
library(ggplot2)

df <- data.frame(
  x = rep(c(2, 5, 7, 9, 12), 2),
  y = rep(c(1, 2), each = 5),
  z = factor(rep(1:5, each = 2)),
  w = rep(diff(c(0, 4, 6, 8, 10, 14)), 2)
)

df %>%
  gg_tile(x = x, y = y, col = z,
          height = 0.9, width = 0.9)
```

gg_violin

Violin ggplot.

Description

Create a violin plot with a wrapper around the ggplot2::geom_violin function.

Usage

```
gg_violin(  
  data = NULL,  
  x = NULL,  
  y = NULL,  
  col = NULL,  
  facet = NULL,  
  facet2 = NULL,  
  group = NULL,  
  text = NULL,  
  stat = "ydensity",  
  position = "dodge",  
  pal = NULL,  
  pal_na = "#7F7F7F",  
  alpha = 0.9,  
  ...,  
  titles = NULL,  
  title = NULL,  
  subtitle = NULL,  
  coord = NULL,  
  x_breaks = NULL,  
  x_expand = NULL,  
  x_include = NULL,  
  x_labels = NULL,  
  x_limits = NULL,  
  x_sec_axis = ggplot2::waiver(),  
  x_title = NULL,  
  x_trans = "identity",  
  y_breaks = NULL,  
  y_expand = NULL,  
  y_include = NULL,  
  y_labels = NULL,  
  y_limits = NULL,  
  y_sec_axis = ggplot2::waiver(),  
  y_title = NULL,  
  y_trans = "identity",  
  col_breaks = NULL,  
  col_continuous = "gradient",  
  col_include = NULL,  
  col_labels = NULL,  
  col_legend_place = NULL,  
  col_legend_ncol = NULL,  
  col_legend_nrow = NULL,  
  col_legend_rev = FALSE,  
  col_limits = NULL,  
  col_title = NULL,  
  facet_labels = NULL,  
  facet_ncol = NULL,
```

```

facet_nrow = NULL,
facet_scales = "fixed",
facet_space = "fixed",
facet_layout = NULL,
caption = NULL,
theme = NULL
)

```

Arguments

<code>data</code>	A data frame or tibble.
<code>x</code>	Unquoted x aesthetic variable.
<code>y</code>	Unquoted y aesthetic variable.
<code>col</code>	Unquoted col and fill aesthetic variable.
<code>facet</code>	Unquoted facet aesthetic variable.
<code>facet2</code>	Unquoted second facet variable for a facet grid of facet by facet2 variables.
<code>group</code>	Unquoted group aesthetic variable.
<code>text</code>	Unquoted text aesthetic variable, which can be used in combination with <code>plotly::ggplotly(., tooltip = "text")</code> .
<code>stat</code>	Statistical transformation. A character string (e.g. "identity").
<code>position</code>	Position adjustment. Either a character string (e.g. "identity"), or a function (e.g. <code>ggplot2::position_identity()</code>).
<code>pal</code>	Colours to use. A character vector of hex codes (or names).
<code>pal_na</code>	Colour to use for NA values. A character vector of a hex code (or name).
<code>alpha</code>	Opacity. A number between 0 and 1.
<code>...</code>	Other arguments passed to the relevant <code>ggplot2::geom_*</code> function.
<code>titles</code>	A function to format the x, y and col titles, including in rlang lambda format. Defaults to <code>snakecase::to_sentence_case</code> .
<code>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<code>coord</code>	Coordinate system.
<code>x_breaks</code>	A function that takes the limits as input (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>x_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>x_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>x_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>x_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(xlim = ...)</code> .
<code>x_sec_axis</code>	A secondary axis specified by the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.

<code>x_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>x_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>y_breaks</code>	A function that takes the limits as input (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>y_expand</code>	Padding to the limits with the <code>ggplot2::expansion</code> function, or a vector of length 2 (e.g. <code>c(0, 0)</code>).
<code>y_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>y_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels.
<code>y_limits</code>	A vector of length 2 to determine the limits of the axis. Alternatively, zoom in using <code>coord = coord_cartesian(ylim = ...)</code> .
<code>y_sec_axis</code>	A secondary axis specified by the <code>ggplot2::sec_axis</code> or <code>ggplot2::dup_axis</code> function.
<code>y_title</code>	Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>y_trans</code>	For a numeric variable, a transformation object (e.g. "log10").
<code>col_breaks</code>	A function that takes the limits as input (e.g. <code>scales::breaks_pretty()</code>), or a vector of breaks.
<code>col_continuous</code>	Type of colouring for a continuous variable. Either "gradient" or "steps". Defaults to "steps".
<code>col_include</code>	For a numeric or date variable, any values that the scale should include (e.g. 0).
<code>col_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a vector of labels. Note this does not affect where <code>col_intervals</code> is not NULL.
<code>col_legend_place</code>	The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left. Defaults to "b".
<code>col_legend_ncol</code>	The number of columns for the legend elements.
<code>col_legend_nrow</code>	The number of rows for the legend elements.
<code>col_legend_rev</code>	Reverse the elements of the legend. Defaults to FALSE.
<code>col_limits</code>	A vector to determine the limits of the axis.
<code>col_title</code>	Legend title string. Defaults to converting to sentence case with spaces. Use "" for no title.
<code>facet_labels</code>	A function that takes the breaks as inputs (e.g. <code>scales::label_comma()</code>), or a named vector of labels (e.g. <code>c("value" = "label", ...)</code>).
<code>facet_ncol</code>	The number of columns of facets. Only applies to a facet layout of "wrap".
<code>facet_nrow</code>	The number of rows of facets. Only applies to a facet layout of "wrap".
<code>facet_scales</code>	Whether facet scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".

facet_space	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"). Only applies where the facet layout is a 'grid' and facet_scales are not fixed. Defaults to "fixed".
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"..
caption	Caption title string.
theme	A ggplot2 theme.

Value

A ggplot object.

Examples

```
library(ggplot2)
mtcars %>%
  dplyr::mutate(cyl = as.factor(cyl)) %>%
  gg_violin(x = cyl, y = mpg)
```

pal_d3_mix

D3 palette reordered.

Description

A function to retrieve a vector of hex codes for a non-numeric (or non-ordered) variable.

Usage

```
pal_d3_mix(n)
```

Arguments

n The number of colours (excluding an NA colour).

Value

A character vector of hex codes.

Examples

```
scales::show_col(pal_d3_mix(9))
```

pal_na	<i>NA palette.</i>
--------	--------------------

Description

A function to retrieve a hex code for a colour to use for NA values.

Usage

```
pal_na(pal = "#7F7F7F")
```

Arguments

pal The hex code or name of the NA colour. Defaults to "#7F7F7FFF".

Value

A character vector.

Examples

```
scales::show_col(pal_na())
```

pal_viridis_mix	<i>Viridis palette reordered.</i>
-----------------	-----------------------------------

Description

A function to retrieve a vector of hex codes for a numeric (or ordered) variable.

Usage

```
pal_viridis_mix(n)
```

Arguments

n The number of colours (excluding an NA colour).

Value

A character vector of hex codes.

Examples

```
scales::show_col(pal_viridis_mix(9))
```

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