Package 'ggblanket'

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Title Wrappers to Simplify 'ggplot2' Visualisation

Version 1.3.0

Description Simplify visualisation with 'ggplot2' wrapper functions.

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

Suggests palmerpenguins, pals, patchwork, plotly, santoku, sf

NeedsCompilation no

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R topics documented:

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

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_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.

group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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 ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_limits	A vector to determine the limits of the axis.
col_title	Axis 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 facetted plots.
facet_nrow	The number of rows of facetted plots.
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".
caption	Caption title string.
theme	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,
  width = NULL,
  ...,
  titles = NULL,
  title = NULL,
  subtitle = NULL,
  coord = NULL,
  x_breaks = NULL,
  x_expand = NULL,
  x_include = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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.
width	Width. A number 0 upwards.
...	Other arguments passed to the relevant ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.

subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.
col_legend_ncol	The number of columns for the legend elements.

col_legend_nrow
: The number of rows for the legend elements.

col_limits
: A vector to determine the limits of the axis.

col_title
: Axis 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 facetted plots.

facet_nrow
: The number of rows of facetted plots.

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".

caption
: Caption title string.

theme
: 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 *Point ggplot.*

Description

Create a point 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_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
label	Unquoted label aesthetic variable.
xmin	Unquoted xmin aesthetic variable.
xmax	Unquoted xmax aesthetic variable.
xend	Unquoted xend aesthetic variable.
ymin	Unquoted ymin aesthetic variable.
ymax	Unquoted ymax aesthetic variable.
yend	Unquoted xend aesthetic variable.
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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).
...	Other arguments passed to the relevant ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_limits	A vector to determine the limits of the axis.
col_title	Axis 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 facetted plots.
facet_nrow	The number of rows of facetted plots.
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".
caption	Caption title string.
theme	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,
  width = NULL,
  ...,
  titles = NULL,
  title = NULL,
  subtitle = NULL,
  coord = NULL,
  x_breaks = NULL,
  x_expand = NULL,
  x_include = NULL,
  x_labels = NULL,
  x_limits = NULL,
```

```
  x_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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.
width	Width. A number 0 upwards.
...	Other arguments passed to the relevant ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).

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.

col_legend_ncol
The number of columns for the legend elements.

col_legend_nrow
The number of rows for the legend elements.

col_limits A vector to determine the limits of the axis.

col_title Axis 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 facetted plots.

facet_nrow The number of rows of facetted plots.

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".

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,
  width = NULL,
  ...,
  titles = NULL,
  title = NULL,
  subtitle = NULL,
  coord = NULL,
  x_breaks = NULL,
  x_expand = NULL,
  x_include = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
```

```
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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.
width	Width. A number 0 upwards.
...	Other arguments passed to the relevant ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.

x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_limits	A vector to determine the limits of the axis.
col_title	Axis 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 facetted plots.
facet_nrow	The number of rows of facetted plots.
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".
caption	Caption title string.
theme	A ggplot2 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,
  width = NULL,
  titles = NULL,
  ...,
  title = NULL,
  subtitle = NULL,
  coord = NULL,
  x_breaks = NULL,
  x_expand = NULL,
  x_include = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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.
width	Width. A number 0 upwards.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
...	Other arguments passed to the relevant ggplot2::geom_* function.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_limits	A vector to determine the limits of the axis.
col_title	Axis 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 facetted plots.
facet_nrow	The number of rows of facetted plots.
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".
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 *Density ggplot.*

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_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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 ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).

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.

col_legend_ncol
The number of columns for the legend elements.

col_legend_nrow
The number of rows for the legend elements.

col_limits A vector to determine the limits of the axis.

col_title Axis 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 facetted plots.

facet_nrow The number of rows of facetted plots.

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".

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,
  width = 0.1,
  ...,
  titles = NULL,
  title = NULL,
  subtitle = NULL,
  coord = NULL,
  x_breaks = NULL,
  x_expand = NULL,
  x_include = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
```

```
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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.
width	Width. A number 0 upwards.
...	Other arguments passed to the relevant ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.

x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_limits	A vector to determine the limits of the axis.
col_title	Axis 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 facetted plots.
facet_nrow	The number of rows of facetted plots.
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".
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_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,
  bins = 30,
  ...,
  titles = NULL,
  title = NULL,
  subtitle = NULL,
  coord = NULL,
  x_breaks = NULL,
  x_expand = NULL,
  x_include = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
```

```
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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.
bins	Number of bins. An integer 0 upwards.
...	Other arguments passed to the relevant ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.

x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_limits	A vector to determine the limits of the axis.
col_title	Axis 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 facetted plots.
facet_nrow	The number of rows of facetted plots.
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".
caption	Caption title string.
theme	A ggplot2 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_oob = scales::oob_keep,
```

```
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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 ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).

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.

col_legend_ncol
The number of columns for the legend elements.

col_legend_nrow
The number of rows for the legend elements.

col_limits A vector to determine the limits of the axis.

col_title Axis 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 facetted plots.

facet_nrow The number of rows of facetted plots.

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".

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,
  bins = 30,
  ...,
  titles = NULL,
  title = NULL,
  subtitle = NULL,
  coord = NULL,
  x_breaks = NULL,
  x_expand = NULL,
  x_include = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
```

```
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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.
bins	Number of bins. An integer 0 upwards.
...	Other arguments passed to the relevant ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.

x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_limits	A vector to determine the limits of the axis.
col_title	Axis 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 facetted plots.
facet_nrow	The number of rows of facetted plots.
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".
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_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.

text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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 ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_limits	A vector to determine the limits of the axis.
col_title	Axis 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 facetted plots.
facet_nrow	The number of rows of facetted plots.
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".
caption	Caption title string.
theme	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_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
```

```
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
label	Unquoted label aesthetic variable.
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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 ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.

x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_limits	A vector to determine the limits of the axis.
col_title	Axis 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 facetted plots.
facet_nrow	The number of rows of facetted plots.
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".
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_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.

text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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 ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_limits	A vector to determine the limits of the axis.
col_title	Axis 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 facetted plots.
facet_nrow	The number of rows of facetted plots.
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".
caption	Caption title string.
theme	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_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
```

```
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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 ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.

title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.

col_legend_ncol
: The number of columns for the legend elements.

col_legend_nrow
: The number of rows for the legend elements.

col_limits
: A vector to determine the limits of the axis.

col_title
: Axis 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 facetted plots.

facet_nrow
: The number of rows of facetted plots.

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".

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

---

gg_path *Path ggplot.*

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_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
```

```
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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 ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_limits	A vector to determine the limits of the axis.
col_title	Axis 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 facetted plots.
facet_nrow	The number of rows of facetted plots.
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".
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_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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 ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.

col_legend_ncol
: The number of columns for the legend elements.

col_legend_nrow
: The number of rows for the legend elements.

col_limits
: A vector to determine the limits of the axis.

col_title
: Axis 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 facetted plots.

facet_nrow
: The number of rows of facetted plots.

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".

caption
: Caption title string.

theme
: 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_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
```

```
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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 ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).

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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.#'
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_limits	A vector to determine the limits of the axis.
col_title	Axis 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 facetted plots.
facet_nrow	The number of rows of facetted plots.
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".
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_pointrange(df, x = trt, y = resp, col = group, ymin = lower, ymax = upper,
              position = position_dodge(width = 0.2))
```

---

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_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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.
facet2	Unquoted second facet variable for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
x	Unquoted x aesthetic variable.
y	Unquoted y aesthetic variable.
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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 ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.#'
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_limits	A vector to determine the limits of the axis.
col_title	Axis 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 facetted plots.
facet_nrow	The number of rows of facetted plots.
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".
caption	Caption title string.
theme	A ggplot2 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_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
```

```
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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 ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).

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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_limits	A vector to determine the limits of the axis.
col_title	Axis 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 facetted plots.
facet_nrow	The number of rows of facetted plots.
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".
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_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  caption = NULL,
  theme = NULL
)
```

Arguments

data	A data frame or tibble.
xmin	Unquoted xmin aesthetic variable.
xmax	Unquoted xmax 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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
x	Unquoted x aesthetic variable.
y	Unquoted y aesthetic variable.
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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 ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_limits	A vector to determine the limits of the axis.
col_title	Axis 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 facetted plots.
facet_nrow	The number of rows of facetted plots.
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".
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_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
xmin	Unquoted xmin aesthetic variable.
xmax	Unquoted xmax aesthetic variable.
ymin	Unquoted ymin aesthetic variable.
ymax	Unquoted ymax aesthetic variable.

stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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 ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_limits	A vector to determine the limits of the axis.
col_title	Axis 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 facetted plots.
facet_nrow	The number of rows of facetted plots.
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".
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_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  caption = NULL,
  theme = NULL
)
```

Arguments

data	A data frame or tibble.
x	Unquoted x aesthetic variable.
xend	Unquoted xend aesthetic variable.
y	Unquoted y aesthetic variable.
yend	Unquoted xend aesthetic variable.
col	Unquoted col and fill aesthetic variable.
facet	Unquoted facet aesthetic variable.
facet2	Unquoted second facet variable for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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 ggplot2::geom_* function.

titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.

col_legend_ncol
: The number of columns for the legend elements.

col_legend_nrow
: The number of rows for the legend elements.

col_limits
: A vector to determine the limits of the axis.

col_title
: Axis 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 facetted plots.

facet_nrow
: The number of rows of facetted plots.

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".

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_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  caption = NULL,
  theme = NULL
)
```

Arguments

data	A sf object.
col	Unquoted col and fill aesthetic variable.
facet	Unquoted facet aesthetic variable.
facet2	Unquoted second facet variable for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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 ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.

title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
col_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_limits	A vector to determine the limits of the axis.
col_title	Axis 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 facetted plots.
facet_nrow	The number of rows of facetted plots.
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_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
```

```
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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 ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).

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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.#'
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_limits	A vector to determine the limits of the axis.
col_title	Axis 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 facetted plots.
facet_nrow	The number of rows of facetted plots.
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".
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_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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 ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_limits	A vector to determine the limits of the axis.
col_title	Axis 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 facetted plots.
facet_nrow	The number of rows of facetted plots.
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".
caption	Caption title string.
theme	A ggplot2 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_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
```

```
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
label	Unquoted label aesthetic variable.
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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 ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.

x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.#'
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_limits	A vector to determine the limits of the axis.
col_title	Axis 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 facetted plots.
facet_nrow	The number of rows of facetted plots.
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".
caption	Caption title string.
theme	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(
  font = "",
  title_pal = "#000000",
  title_font = NULL,
  title_size = 11,
  title_style = "bold",
  subtitle_font = NULL,
  subtitle_pal = "#323232",
  subtitle_size = 10,
  subtitle_style = "plain",
  body_font = NULL,
  body_pal = "#323232",
  body_size = 10,
  body_style = "plain",
  caption_font = NULL,
  caption_pal = "#7F7F7F",
  caption_size = 9,
  caption_style = "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

font	The font for all text to use. Defaults to "".
title_pal	The colour palette for the title font. Defaults to "#000000".
title_font	The font for the title. If NULL, inherits from font argument.
title_size	The size of the title font. Defaults to 11.
title_style	The style of the title font. Defaults to "bold".
subtitle_font	The font for the subtitle. If NULL, inherits from font argument.
subtitle_pal	The colour palette for the subtitle font. Defaults to "#323232".
subtitle_size	The size of the subtitle font. Defaults to 10.
subtitle_style	The style of the subtitle font. Defaults to "plain".
body_font	The font for all text other than the title, subtitle and caption. If NULL, inherits from font 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_style	The style of all text other than the title, subtitle or caption. Defaults to "plain".
caption_font	The font for the caption. If NULL, inherits from font argument.
caption_pal	The colour palette for the caption. Defaults to "#7F7F7F".
caption_size	The size of the caption. Defaults to 9.
caption_style	The 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 hotizontal 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,
  height = 1,
  width = 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_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").

stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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.
height	Height. A number 0 upwards.
width	Width. A number 0 upwards.
...	Other arguments passed to the relevant ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_limits	A vector to determine the limits of the axis.
col_title	Axis 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 facetted plots.
facet_nrow	The number of rows of facetted plots.
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".
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)
)

gg_tile(df, x = x, y = y, col = z)
```

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,
  width = NULL,
  ...,
  titles = NULL,
  title = NULL,
  subtitle = NULL,
  coord = NULL,
  x_breaks = NULL,
  x_expand = NULL,
  x_include = NULL,
  x_labels = NULL,
  x_limits = NULL,
  x_oob = scales::oob_keep,
  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_oob = scales::oob_keep,
  y_sec_axis = ggplot2::waiver(),
  y_title = NULL,
  y_trans = "identity",
```

```
  col_breaks = NULL,
  col_include = NULL,
  col_intervals = NULL,
  col_labels = NULL,
  col_legend_place = NULL,
  col_legend_ncol = NULL,
  col_legend_nrow = NULL,
  col_limits = NULL,
  col_title = NULL,
  facet_labels = NULL,
  facet_ncol = NULL,
  facet_nrow = NULL,
  facet_scales = "fixed",
  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 for a facet grid of facet by facet2 variables.
group	Unquoted group aesthetic variable.
text	Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(., tooltip = "text").
stat	Statistical transformation. A character string (e.g. "identity").
position	Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
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.
width	Width. A number 0 upwards.
...	Other arguments passed to the relevant ggplot2::geom_* function.
titles	A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.
title	Title string.
subtitle	Subtitle string.
coord	Coordinate system.
x_breaks	A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.

x_expand	Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
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.
x_oob	A scales::oob_* function for how to deal with out-of-bounds values.#'
x_sec_axis	A secondary axis specified by 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 that takes the limits as input (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.
y_oob	A scales::oob_* function for how to deal with out-of-bounds values.
y_sec_axis	A secondary axis specified by 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 that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
col_include	For a numeric or date variable, any values that the scale should include (e.g. 0).
col_intervals	A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.
col_legend_ncol	The number of columns for the legend elements.
col_legend_nrow	The number of rows for the legend elements.
col_limits	A vector to determine the limits of the axis.
col_title	Axis 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 facetted plots.
facet_nrow	The number of rows of facetted plots.
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".
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 retreive a vector of hex codes for a non-numeric (or non-ordererd) 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 *NA palette.*

Description

A function to retreive 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 *Viridis palette reordered.*

Description

A function to retreive a vector of hex codes for a numeric (or ordererd) 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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