Package ‘ggblanket’

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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
gg_area

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")
```

---

**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.
**gg_area**

- **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,
**gg_bar**

```r
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**

```r
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,
```
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")

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,
gg_blank

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 yend 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.
<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>x_trans</td>
<td>For a numeric variable, a transformation object (e.g. &quot;log10&quot;).</td>
</tr>
<tr>
<td>y_breaks</td>
<td>A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.</td>
</tr>
<tr>
<td>y_expand</td>
<td>Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).</td>
</tr>
<tr>
<td>y_include</td>
<td>For a numeric or date variable, any values that the scale should include (e.g. 0).</td>
</tr>
<tr>
<td>y_labels</td>
<td>A function that takes the breaks as inputs (e.g. scales::label_comma()), or a vector of labels.</td>
</tr>
<tr>
<td>y_limits</td>
<td>A vector of length 2 to determine the limits of the axis.</td>
</tr>
<tr>
<td>y_oob</td>
<td>A scales::oob_* function for how to deal with out-of-bounds values.</td>
</tr>
<tr>
<td>y_sec_axis</td>
<td>A secondary axis specified by the ggplot2::sec_axis or ggplot2::dup_axis function.</td>
</tr>
<tr>
<td>y_title</td>
<td>Axis title string. Defaults to converting to sentence case with spaces. Use &quot;&quot; for no title.</td>
</tr>
<tr>
<td>y_trans</td>
<td>For a numeric variable, a transformation object (e.g. &quot;log10&quot;).</td>
</tr>
<tr>
<td>col_breaks</td>
<td>A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.</td>
</tr>
<tr>
<td>col_include</td>
<td>For a numeric or date variable, any values that the scale should include (e.g. 0).</td>
</tr>
<tr>
<td>col_intervals</td>
<td>A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).</td>
</tr>
<tr>
<td>col_labels</td>
<td>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.</td>
</tr>
<tr>
<td>col_legend_place</td>
<td>The place for the legend. &quot;b&quot; for bottom, &quot;r&quot; for right, &quot;t&quot; for top, or &quot;l&quot; for left.</td>
</tr>
<tr>
<td>col_legend_ncol</td>
<td>The number of columns for the legend elements.</td>
</tr>
<tr>
<td>col_legend_nrow</td>
<td>The number of rows for the legend elements.</td>
</tr>
<tr>
<td>col_limits</td>
<td>A vector to determine the limits of the axis.</td>
</tr>
<tr>
<td>col_title</td>
<td>Axis title string. Defaults to converting to sentence case with spaces. Use &quot;&quot; for no title.</td>
</tr>
<tr>
<td>facet_labels</td>
<td>A function that takes the breaks as inputs (e.g. scales::label_comma()), or a named vector of labels (e.g. c(value = &quot;label&quot;, ...)).</td>
</tr>
<tr>
<td>facet_ncol</td>
<td>The number of columns of facetted plots.</td>
</tr>
<tr>
<td>facet_nrow</td>
<td>The number of rows of facetted plots.</td>
</tr>
<tr>
<td>facet_scales</td>
<td>Whether facet_scales should be &quot;fixed&quot; across facets, &quot;free&quot; in both directions, or free in just one direction (i.e. &quot;free_x&quot; or &quot;free_y&quot;). Defaults to &quot;fixed&quot;.</td>
</tr>
<tr>
<td>caption</td>
<td>Caption title string.</td>
</tr>
<tr>
<td>theme</td>
<td>A ggplot2 theme.</td>
</tr>
</tbody>
</table>

**Value**

A ggplot object.
Examples

```r
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

```r
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,
)```
gg_boxplot

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.

title  
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)).
<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>col_labels</td>
<td>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.</td>
</tr>
<tr>
<td>col_legend_place</td>
<td>The place for the legend. &quot;b&quot; for bottom, &quot;r&quot; for right, &quot;t&quot; for top, or &quot;l&quot; for left.</td>
</tr>
<tr>
<td>col_legend_ncol</td>
<td>The number of columns for the legend elements.</td>
</tr>
<tr>
<td>col_legend_nrow</td>
<td>The number of rows for the legend elements.</td>
</tr>
<tr>
<td>col_limits</td>
<td>A vector to determine the limits of the axis.</td>
</tr>
<tr>
<td>col_title</td>
<td>Axis title string. Defaults to converting to sentence case with spaces. Use &quot;&quot; for no title.</td>
</tr>
<tr>
<td>facet_labels</td>
<td>A function that takes the breaks as inputs (e.g. scales::label_comma()), or a named vector of labels (e.g. c(value = &quot;label&quot;, ...)).</td>
</tr>
<tr>
<td>facet_ncol</td>
<td>The number of columns of facetted plots.</td>
</tr>
<tr>
<td>facet_nrow</td>
<td>The number of rows of facetted plots.</td>
</tr>
<tr>
<td>facet_scales</td>
<td>Whether facet_scales should be &quot;fixed&quot; across facets, &quot;free&quot; in both directions, or free in just one direction (i.e. &quot;free_x&quot; or &quot;free_y&quot;). Defaults to &quot;fixed&quot;.</td>
</tr>
<tr>
<td>caption</td>
<td>Caption title string.</td>
</tr>
<tr>
<td>theme</td>
<td>A ggplot2 theme.</td>
</tr>
</tbody>
</table>

**Value**

A ggplot object.

**Examples**

```r
code
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))
```

Description

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

Usage

```r
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",
)```
gg_col

```r
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.

- **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.
**gg_crossbar**

```r
gg_crossbar
```

**Description**

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

**Usage**

```r
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.

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)).
For a numeric or date variable, any values that the scale should include (e.g. 0).

A function that takes the breaks as inputs (e.g. scales::label_comma()), or a vector of labels.

A vector of length 2 to determine the limits of the axis.

A scales::oob_* function for how to deal with out-of-bounds values.

A secondary axis specified by the ggplot2::sec_axis or ggplot2::dup_axis function.

Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.

For a numeric variable, a transformation object (e.g. "log10").

A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.

For a numeric or date variable, any values that the scale should include (e.g. 0).

A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).

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.

The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left.

The number of columns for the legend elements.

The number of rows for the legend elements.

A vector to determine the limits of the axis.

Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.

A function that takes the breaks as inputs (e.g. scales::label_comma()), or a named vector of labels (e.g. c(value = "label", ...)).

The number of columns of facetted plots.

The number of rows of facetted plots.

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 title string.

A ggplot2 theme.

A ggplot object.
gg_density

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)

---

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,
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)).
`gg_errorbar`  

**Description**

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

### Parameters

- **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 faceted plots.

- **facet_nrow**: The number of rows of faceted 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.

### Examples

```r
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)
```
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,
Arguments

data
x
xmin
xmax
y
ymin
ymax
col
facet
facet2
group
text
stat
position
pal
pal_na
alpha
width
titles
title
subtitle
coord
x_breaks

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

A data frame or tibble.
Unquoted x aesthetic variable.
Unquoted xmin aesthetic variable.
Unquoted xmax aesthetic variable.
Unquoted y aesthetic variable.
Unquoted ymin aesthetic variable.
Unquoted ymax aesthetic variable.
Unquoted col and fill aesthetic variable.
Unquoted facet aesthetic variable.
Unquoted second facet variable for a facet grid of facet by facet2 variables.
Unquoted group aesthetic variable.
Unquoted text aesthetic variable, which can be used in combination with plotly::ggplotly(,
tooltip = "text").
Statistical transformation. A character string (e.g. "identity").
Position adjustment. Either a character string (e.g."identity"), or a function (e.g. ggplot2::position_identity()).
Colours to use. A character vector of hex codes (or names).
Colour to use for NA values. A character vector of a hex code (or name).
Opacity. A number between 0 and 1.
Width. A number 0 upwards.
A function to format the x, y and col titles, including in rlang lambda format.
Defaults to snakecase::to_sentence_case.
Title string.
Subtitle string.
Coordinate system.
A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).

For a numeric or date variable, any values that the scale should include (e.g. 0).

A function that takes the breaks as inputs (e.g. scales::label_comma()), or a vector of labels.

A vector of length 2 to determine the limits of the axis.

A scales::oob_* function for how to deal with out-of-bounds values.

A secondary axis specified by the ggplot2::sec_axis or ggplot2::dup_axis function.

Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.

For a numeric variable, a transformation object (e.g. "log10").

A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.

Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).

For a numeric or date variable, any values that the scale should include (e.g. 0).

A function that takes the breaks as inputs (e.g. scales::label_comma()), or a vector of labels.

A vector of length 2 to determine the limits of the axis.

A scales::oob_* function for how to deal with out-of-bounds values.

A secondary axis specified by the ggplot2::sec_axis or ggplot2::dup_axis function.

Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.

For a numeric variable, a transformation object (e.g. "log10").

A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.

For a numeric or date variable, any values that the scale should include (e.g. 0).

A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).

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.

The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left.

The number of columns for the legend elements.

The number of rows for the legend elements.

A vector to determine the limits of the axis.

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,


```r

arguments = NULL,
facet_nlabel = NULL,
facet_nrow = NULL,
facet_ncol = 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.
```

---

**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.
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>x_sec_axis</td>
<td>A secondary axis specified by the ggplot2::sec_axis or ggplot2::dup_axis function.</td>
</tr>
<tr>
<td>x_title</td>
<td>Axis title string. Defaults to converting to sentence case with spaces. Use &quot;&quot; for no title.</td>
</tr>
<tr>
<td>x_trans</td>
<td>For a numeric variable, a transformation object (e.g. &quot;log10&quot;).</td>
</tr>
<tr>
<td>y_breaks</td>
<td>A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.</td>
</tr>
<tr>
<td>y_expand</td>
<td>Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).</td>
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<tr>
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<td>For a numeric variable, a transformation object (e.g. &quot;log10&quot;).</td>
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<tr>
<td>col_breaks</td>
<td>A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.</td>
</tr>
<tr>
<td>col_include</td>
<td>For a numeric or date variable, any values that the scale should include (e.g. 0).</td>
</tr>
<tr>
<td>col_intervals</td>
<td>A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).</td>
</tr>
<tr>
<td>col_labels</td>
<td>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.</td>
</tr>
<tr>
<td>col_legend_place</td>
<td>The place for the legend. &quot;b&quot; for bottom, &quot;r&quot; for right, &quot;t&quot; for top, or &quot;l&quot; for left.</td>
</tr>
<tr>
<td>col_legend_ncol</td>
<td>The number of columns for the legend elements.</td>
</tr>
<tr>
<td>col_legend_nrow</td>
<td>The number of rows for the legend elements.</td>
</tr>
<tr>
<td>col_limits</td>
<td>A vector to determine the limits of the axis.</td>
</tr>
<tr>
<td>col_title</td>
<td>Axis title string. Defaults to converting to sentence case with spaces. Use &quot;&quot; for no title.</td>
</tr>
<tr>
<td>facet_labels</td>
<td>A function that takes the breaks as inputs (e.g. scales::label_comma()), or a named vector of labels (e.g. c(value = &quot;label&quot;, ...)).</td>
</tr>
<tr>
<td>facet_ncol</td>
<td>The number of columns of facetted plots.</td>
</tr>
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<td>facet_nrow</td>
<td>The number of rows of facetted plots.</td>
</tr>
<tr>
<td>facet_scales</td>
<td>Whether facet_scales should be &quot;fixed&quot; across facets, &quot;free&quot; in both directions, or free in just one direction (i.e. &quot;free_x&quot; or &quot;free_y&quot;). Defaults to &quot;fixed&quot;.</td>
</tr>
<tr>
<td>caption</td>
<td>Caption title string.</td>
</tr>
<tr>
<td>theme</td>
<td>A ggplot2 theme.</td>
</tr>
</tbody>
</table>
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)
sg_freqpoly(diamonds, y = carat)
sg_freqpoly(diamonds, x = price, col = cut)

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,
**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)))
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_limits = NULL,
col_title = 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.
<table>
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<th>Description</th>
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<td>x_sec_axis</td>
<td>A secondary axis specified by the ggplot2::sec_axis or ggplot2::dup_axis function.</td>
</tr>
<tr>
<td>x_title</td>
<td>Axis title string. Defaults to converting to sentence case with spaces. Use &quot;&quot; for no title.</td>
</tr>
<tr>
<td>x_trans</td>
<td>For a numeric variable, a transformation object (e.g. &quot;log10&quot;).</td>
</tr>
<tr>
<td>y_breaks</td>
<td>A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.</td>
</tr>
<tr>
<td>y_expand</td>
<td>Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).</td>
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<td>y_include</td>
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<td>A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.</td>
</tr>
<tr>
<td>col_include</td>
<td>For a numeric or date variable, any values that the scale should include (e.g. 0).</td>
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<tr>
<td>col_intervals</td>
<td>A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).</td>
</tr>
<tr>
<td>col_labels</td>
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<tr>
<td>col_legend_place</td>
<td>The place for the legend. &quot;b&quot; for bottom, &quot;r&quot; for right, &quot;t&quot; for top, or &quot;l&quot; for left.</td>
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<td>col_legend_nrow</td>
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<td>facet_ncol</td>
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<tr>
<td>theme</td>
<td>A ggplot2 theme.</td>
</tr>
</tbody>
</table>
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)^0.333),
            facet_scales = "free_x",
            x_breaks = scales::breaks_pretty(3),
            facet_ncol = 2)

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 = "#F7F7F7",
  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.
<table>
<thead>
<tr>
<th>gg_jitter</th>
</tr>
</thead>
<tbody>
<tr>
<td>text Unquoted text aesthetic variable, which can be used in combination</td>
</tr>
<tr>
<td>with plotly::ggplotly(., tooltip = &quot;text&quot;).</td>
</tr>
<tr>
<td>stat Statistical transformation. A character string (e.g. &quot;identity&quot;).</td>
</tr>
<tr>
<td>position Position adjustment. Either a character string (e.g.&quot;identity&quot;),</td>
</tr>
<tr>
<td>or a function (e.g. ggplot2::position_identity()).</td>
</tr>
<tr>
<td>pal Colours to use. A character vector of hex codes (or names).</td>
</tr>
<tr>
<td>pal_na Colour to use for NA values. A character vector of a hex code (or</td>
</tr>
<tr>
<td>name).</td>
</tr>
<tr>
<td>alpha Opacity. A number between 0 and 1.</td>
</tr>
<tr>
<td>... Other arguments passed to the relevant ggplot2::geom_* function.</td>
</tr>
<tr>
<td>titles A function to format the x, y and col titles, including in</td>
</tr>
<tr>
<td>rlang lambda format. Defaults to snakecase::to_sentence_case.</td>
</tr>
<tr>
<td>title Title string.</td>
</tr>
<tr>
<td>subtitle Subtitle string.</td>
</tr>
<tr>
<td>coord Coordinate system.</td>
</tr>
<tr>
<td>x_breaks A function that takes the limits as input (e.g. scales::</td>
</tr>
<tr>
<td>breaks_pretty()), or a vector of breaks.</td>
</tr>
<tr>
<td>x_expand Padding to the limits with the ggplot2::expansion function,</td>
</tr>
<tr>
<td>or a vector of length 2 (e.g. c(0, 0)).</td>
</tr>
<tr>
<td>x_include For a numeric or date variable, any values that the scale</td>
</tr>
<tr>
<td>should include (e.g. 0).</td>
</tr>
<tr>
<td>x_labels A function that takes the breaks as inputs (e.g. scales::</td>
</tr>
<tr>
<td>label_comma()), or a vector of labels.</td>
</tr>
<tr>
<td>x_limits A vector of length 2 to determine the limits of the axis.</td>
</tr>
<tr>
<td>x_oob A scales::oob_* function for how to deal with out-of-bounds</td>
</tr>
<tr>
<td>values.</td>
</tr>
<tr>
<td>x_sec_axis A secondary axis specified by the ggplot2::sec_axis or</td>
</tr>
<tr>
<td>ggplot2::dup_axis function.</td>
</tr>
<tr>
<td>x_title Axis title string. Defaults to converting to sentence case</td>
</tr>
<tr>
<td>with spaces. Use &quot;&quot; for no title.</td>
</tr>
<tr>
<td>x_trans For a numeric variable, a transformation object (e.g. &quot;log10&quot;).</td>
</tr>
<tr>
<td>y_breaks A function that takes the limits as input (e.g. scales::</td>
</tr>
<tr>
<td>breaks_pretty()), or a vector of breaks.</td>
</tr>
<tr>
<td>y_expand Padding to the limits with the ggplot2::expansion function,</td>
</tr>
<tr>
<td>or a vector of length 2 (e.g. c(0, 0)).</td>
</tr>
<tr>
<td>y_include For a numeric or date variable, any values that the scale</td>
</tr>
<tr>
<td>should include (e.g. 0).</td>
</tr>
<tr>
<td>y_labels A function that takes the breaks as inputs (e.g. scales::</td>
</tr>
<tr>
<td>label_comma()), or a vector of labels.</td>
</tr>
<tr>
<td>y_limits A vector of length 2 to determine the limits of the axis.</td>
</tr>
<tr>
<td>y_oob A scales::oob_* function for how to deal with out-of-bounds</td>
</tr>
<tr>
<td>values.</td>
</tr>
<tr>
<td>y_sec_axis A secondary axis specified by the ggplot2::sec_axis or</td>
</tr>
<tr>
<td>ggplot2::dup_axis function.</td>
</tr>
<tr>
<td>y_title Axis title string. Defaults to converting to sentence case</td>
</tr>
<tr>
<td>with spaces. Use &quot;&quot; for no title.</td>
</tr>
</tbody>
</table>
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

```r
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",
)```

```
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.
Padding to the limits with the `ggplot2::expansion` function, or a vector of length 2 (e.g. `c(0, 0)`).

For a numeric or date variable, any values that the scale should include (e.g. `0`).

A function that takes the breaks as inputs (e.g. `scales::label_comma()`), or a vector of labels.

A vector of length 2 to determine the limits of the axis.

A scales::`oob_` function for how to deal with out-of-bounds values.

A secondary axis specified by the `ggplot2::sec_axis` or `ggplot2::dup_axis` function.

Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.

For a numeric variable, a transformation object (e.g. "log10").

A function that takes the limits as input (e.g. `scales::breaks_pretty()`), or a vector of breaks.

Padding to the limits with the `ggplot2::expansion` function, or a vector of length 2 (e.g. `c(0, 0)`).

For a numeric or date variable, any values that the scale should include (e.g. `0`).

A function that takes the breaks as inputs (e.g. `scales::label_comma()`), or a vector of labels.

A vector of length 2 to determine the limits of the axis.

A scales::`oob_` function for how to deal with out-of-bounds values.

A secondary axis specified by the `ggplot2::sec_axis` or `ggplot2::dup_axis` function.

Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.

For a numeric variable, a transformation object (e.g. "log10").

A function that takes the limits as input (e.g. `scales::breaks_pretty()`), or a vector of breaks.

For a numeric or date variable, any values that the scale should include (e.g. `0`).

A function to cut or chop the numeric variable into intervals (e.g. ~ `santoku::chop_mean_sd(.x, drop = FALSE)`).

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.

The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left.

The number of columns for the legend elements.

The number of rows for the legend elements.

A vector to determine the limits of the axis.

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)

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,
  ...
)
gg_line

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.
**gg_line**

- **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**

```r
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

Linerage ggplot.

Description

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

Usage

```r
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,
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.
<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>title</td>
<td>Title string.</td>
</tr>
<tr>
<td>subtitle</td>
<td>Subtitle string.</td>
</tr>
<tr>
<td>coord</td>
<td>Coordinate system.</td>
</tr>
<tr>
<td>x_breaks</td>
<td>A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.</td>
</tr>
<tr>
<td>x_expand</td>
<td>Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).</td>
</tr>
<tr>
<td>x_include</td>
<td>For a numeric or date variable, any values that the scale should include (e.g. 0).</td>
</tr>
<tr>
<td>x_labels</td>
<td>A function that takes the breaks as inputs (e.g. scales::label_comma()), or a vector of labels.</td>
</tr>
<tr>
<td>x_limits</td>
<td>A vector of length 2 to determine the limits of the axis.</td>
</tr>
<tr>
<td>x_oob</td>
<td>A scales::oob_* function for how to deal with out-of-bounds values.</td>
</tr>
<tr>
<td>x_sec_axis</td>
<td>A secondary axis specified by the ggplot2::sec_axis or ggplot2::dup_axis function.</td>
</tr>
<tr>
<td>x_title</td>
<td>Axis title string. Defaults to converting to sentence case with spaces. Use &quot;&quot; for no title.</td>
</tr>
<tr>
<td>x_trans</td>
<td>For a numeric variable, a transformation object (e.g. &quot;log10&quot;).</td>
</tr>
<tr>
<td>y_breaks</td>
<td>A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.</td>
</tr>
<tr>
<td>y_expand</td>
<td>Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).</td>
</tr>
<tr>
<td>y_include</td>
<td>For a numeric or date variable, any values that the scale should include (e.g. 0).</td>
</tr>
<tr>
<td>y_labels</td>
<td>A function that takes the breaks as inputs (e.g. scales::label_comma()), or a vector of labels.</td>
</tr>
<tr>
<td>y_limits</td>
<td>A vector of length 2 to determine the limits of the axis.</td>
</tr>
<tr>
<td>y_oob</td>
<td>A scales::oob_* function for how to deal with out-of-bounds values.</td>
</tr>
<tr>
<td>y_sec_axis</td>
<td>A secondary axis specified by the ggplot2::sec_axis or ggplot2::dup_axis function.</td>
</tr>
<tr>
<td>y_title</td>
<td>Axis title string. Defaults to converting to sentence case with spaces. Use &quot;&quot; for no title.</td>
</tr>
<tr>
<td>y_trans</td>
<td>For a numeric variable, a transformation object (e.g. &quot;log10&quot;).</td>
</tr>
<tr>
<td>col_breaks</td>
<td>A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.</td>
</tr>
<tr>
<td>col_include</td>
<td>For a numeric or date variable, any values that the scale should include (e.g. 0).</td>
</tr>
<tr>
<td>col_intervals</td>
<td>A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).</td>
</tr>
<tr>
<td>col_labels</td>
<td>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.</td>
</tr>
<tr>
<td>col_legend_place</td>
<td>The place for the legend. &quot;b&quot; for bottom, &quot;r&quot; for right, &quot;t&quot; for top, or &quot;l&quot; for left.</td>
</tr>
</tbody>
</table>
gg_path

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))

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,
  xexpand = NULL,
  xinclude = NULL,
  xlabels = NULL,
  xlims = NULL,
  x_oob = scales::oob_keep,
  xsec_axis = ggplot2::waiver(),
  xtitle = NULL,
  xtrans = "identity",
  y_breaks = NULL,
  yexpand = NULL,
  yinclude = NULL,
  ylabels = NULL,
  ylims = NULL,
  y_oob = scales::oob_keep,
  ysec_axis = ggplot2::waiver(),
  ytitle = NULL,
  ytrans = "identity",
  col_breaks = NULL,
  colinclude = NULL,
  colintervals = NULL,
  collabels = NULL,
  collegend_place = NULL,
  collegend_ncol = NULL,
  collegend_nrow = NULL,
  collimits = NULL,
  coltitle = NULL,
  facet_labels = 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 func-
tion.
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.
gg_point

Value

A ggplot object.

Examples

```r
library(ggplot2)

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

Description

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

Usage

```r
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

```r
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,
  colLegend_place = NULL,
  colLegend_ncol = 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", ...)).
### gg_qq

**Usage**

```r
gg_qq(
  data = NULL,
  sample = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  text = NULL,
  x = NULL,
  y = NULL,
  stat = "qq",

```

**Description**

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

**Examples**

```r
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))
```

---

**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.
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 ggrepplot2::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 ggrepplot2::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 ggrepplot2::sec_axis or ggrepplot2::dup_axis func-
tion.
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 ggrepplot2::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).
gg_qq

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**

```r
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,
  ...
)
```

```r
...,
  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,
```

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 ggrepplot2::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 ggrepplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
For a numeric or date variable, any values that the scale should include (e.g. 0).
A function that takes the breaks as inputs (e.g. scales::label_comma()), or a vector of labels.
A vector of length 2 to determine the limits of the axis.
A scales::oob_* function for how to deal with out-of-bounds values.
A secondary axis specified by the ggplot2::sec_axis or ggplot2::dup_axis function.
Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
For a numeric variable, a transformation object (e.g. "log10").
A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).
For a numeric or date variable, any values that the scale should include (e.g. 0).
A function that takes the breaks as inputs (e.g. scales::label_comma()), or a vector of labels.
A vector of length 2 to determine the limits of the axis.
A scales::oob_* function for how to deal with out-of-bounds values.
A secondary axis specified by the ggplot2::sec_axis or ggplot2::dup_axis function.
Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
For a numeric variable, a transformation object (e.g. "log10").
A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.
For a numeric or date variable, any values that the scale should include (e.g. 0).
A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).
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.
The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left.
The number of columns for the legend elements.
The number of rows for the legend elements.
A vector to determine the limits of the axis.
Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.
A function that takes the breaks as inputs (e.g. scales::label_comma()), or a named vector of labels (e.g. c(value = "label", ...)).
**gg_rect**

- **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**

```r
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))
```

**Description**

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

**Usage**

```r
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",
)```

```r
```
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 func-
tion.
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(
gg_ribbon

```r
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, y = 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**

```r
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,
)```
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.
gg_ribbon

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,
gg_segment

```r
ymax = level + 1,
pal = scales::alpha(pal_viridis_mix(1), 0) +
gem_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**

```r
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,
```

Arguments

data A data frame or tibble.
x Unquoted x aesthetic variable.
xend Unquoted xend aesthetic variable.
y Unquoted y aesthetic variable.
yend Unquoted yend 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.
gg_sf

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)

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_legendsplace = NULL,
col_legendsncol = NULL,
col_legendsnrow = 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

```r
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,
)```
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::breakspretty()), 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", ...)).
gg_step

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()

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,
)
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).
### gg_step

**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

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

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

**Usage**

```r
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.
Padding to the limits with the `ggplot2::expansion` function, or a vector of length 2 (e.g. `c(0, 0)`).

For a numeric or date variable, any values that the scale should include (e.g. 0).

A function that takes the breaks as inputs (e.g. `scales::label_comma()`), or a vector of labels.

A vector of length 2 to determine the limits of the axis.

A `scales::oob_*` function for how to deal with out-of-bounds values.

A secondary axis specified by the `ggplot2::sec_axis` or `ggplot2::dup_axis` function.

Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.

For a numeric variable, a transformation object (e.g. "log10").

A function that takes the limits as input (e.g. `scales::breaks_pretty()`), or a vector of breaks.

Padding to the limits with the `ggplot2::expansion` function, or a vector of length 2 (e.g. `c(0, 0)`).

For a numeric or date variable, any values that the scale should include (e.g. 0).

A function that takes the breaks as inputs (e.g. `scales::label_comma()`), or a vector of labels.

A vector of length 2 to determine the limits of the axis.

A `scales::oob_*` function for how to deal with out-of-bounds values.

A secondary axis specified by the `ggplot2::sec_axis` or `ggplot2::dup_axis` function.

Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.

For a numeric variable, a transformation object (e.g. "log10").

A function that takes the limits as input (e.g. `scales::breaks_pretty()`), or a vector of breaks.

For a numeric or date variable, any values that the scale should include (e.g. 0).

A function to cut or chop the numeric variable into intervals (e.g. `~ santoku::chop_mean_sd(.x, drop = FALSE)`).

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.

The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left.

The number of columns for the legend elements.

The number of rows for the legend elements.

A vector to determine the limits of the axis.

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**

```r
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**

```r
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.
gg_tile

bg_legend_key_pal
The colour palette for the legend key. Can also use special values of "plot" and "panel".

grid_h
TRUE or FALSE of whether to show horizontal gridlines. Defaults to FALSE.

grid_v
TRUE or FALSE of whether to show vertical gridlines. Defaults to FALSE.

grid_pal
The colour palette for the vertical major gridlines. Defaults to "#D3D3D3".

grid_size
The size of the vertical major gridlines. Defaults to 0.2.

facet_gap_size
The size of the spacing between facet panels in units of "lines". Defaults to 1.5.

void
TRUE or FALSE of whether to remove axis lines, ticks and x and y titles and labels.

Value
A ggplot theme.

gg_tile

Tile ggplot.

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

Usage
gg_tile(
  data = NULL,
  x = NULL,
  y = NULL,
  col = NULL,
  facet = NULL,
  facet2 = NULL,
  group = NULL,
  text = NULL,
  stat = "identity",
  position = "identity",
  pal = NULL,
  pal_na = "#7F7F7F",
  alpha = 0.9,
  height = 1,
  width = 1,
  ...
  titles = NULL,
  title = NULL,
  subtitle = NULL,
  coord = 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").
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>stat</strong></td>
<td>Statistical transformation. A character string (e.g. &quot;identity&quot;).</td>
</tr>
<tr>
<td><strong>position</strong></td>
<td>Position adjustment. Either a character string (e.g.&quot;identity&quot;), or a function (e.g. ggplot2::position_identity()).</td>
</tr>
<tr>
<td><strong>pal</strong></td>
<td>Colours to use. A character vector of hex codes (or names).</td>
</tr>
<tr>
<td><strong>pal_na</strong></td>
<td>Colour to use for NA values. A character vector of a hex code (or name).</td>
</tr>
<tr>
<td><strong>alpha</strong></td>
<td>Opacity. A number between 0 and 1.</td>
</tr>
<tr>
<td><strong>height</strong></td>
<td>Height. A number 0 upwards.</td>
</tr>
<tr>
<td><strong>width</strong></td>
<td>Width. A number 0 upwards.</td>
</tr>
<tr>
<td><strong>...</strong></td>
<td>Other arguments passed to the relevant ggplot2::geom_* function.</td>
</tr>
<tr>
<td><strong>titles</strong></td>
<td>A function to format the x, y and col titles, including in rlang lambda format. Defaults to snakecase::to_sentence_case.</td>
</tr>
<tr>
<td><strong>title</strong></td>
<td>Title string.</td>
</tr>
<tr>
<td><strong>subtitle</strong></td>
<td>Subtitle string.</td>
</tr>
<tr>
<td><strong>coord</strong></td>
<td>Coordinate system.</td>
</tr>
<tr>
<td><strong>x_breaks</strong></td>
<td>A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.</td>
</tr>
<tr>
<td><strong>x_expand</strong></td>
<td>Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).</td>
</tr>
<tr>
<td><strong>x_include</strong></td>
<td>For a numeric or date variable, any values that the scale should include (e.g. 0).</td>
</tr>
<tr>
<td><strong>x_labels</strong></td>
<td>A function that takes the breaks as inputs (e.g. scales::label_comma()), or a vector of labels.</td>
</tr>
<tr>
<td><strong>x_limits</strong></td>
<td>A vector of length 2 to determine the limits of the axis.</td>
</tr>
<tr>
<td><strong>x_oob</strong></td>
<td>A scales::oob_* function for how to deal with out-of-bounds values.</td>
</tr>
<tr>
<td><strong>x_sec_axis</strong></td>
<td>A secondary axis specified by the ggplot2::sec_axis or ggplot2::dup_axis function.</td>
</tr>
<tr>
<td><strong>x_title</strong></td>
<td>Axis title string. Defaults to converting to sentence case with spaces. Use &quot;&quot; for no title.</td>
</tr>
<tr>
<td><strong>x_trans</strong></td>
<td>For a numeric variable, a transformation object (e.g. &quot;log10&quot;).</td>
</tr>
<tr>
<td><strong>y_breaks</strong></td>
<td>A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.</td>
</tr>
<tr>
<td><strong>y_expand</strong></td>
<td>Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).</td>
</tr>
<tr>
<td><strong>y_include</strong></td>
<td>For a numeric or date variable, any values that the scale should include (e.g. 0).</td>
</tr>
<tr>
<td><strong>y_labels</strong></td>
<td>A function that takes the breaks as inputs (e.g. scales::label_comma()), or a vector of labels.</td>
</tr>
<tr>
<td><strong>y_limits</strong></td>
<td>A vector of length 2 to determine the limits of the axis.</td>
</tr>
<tr>
<td><strong>y_oob</strong></td>
<td>A scales::oob_* function for how to deal with out-of-bounds values.</td>
</tr>
<tr>
<td><strong>y_sec_axis</strong></td>
<td>A secondary axis specified by the ggplot2::sec_axis or ggplot2::dup_axis function.</td>
</tr>
</tbody>
</table>
**gg_tile**

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**

```r
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)
```

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,
col_labels = NULL,
col_nrow = NULL,
col_scale = NULL,
col_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.
Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).

For a numeric or date variable, any values that the scale should include (e.g. 0).

A function that takes the breaks as inputs (e.g. scales::label_comma()), or a vector of labels.

A vector of length 2 to determine the limits of the axis.

A scales::oob_* function for how to deal with out-of-bounds values. #'

A secondary axis specified by the ggplot2::sec_axis or ggplot2::dup_axis function.

Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.

For a numeric variable, a transformation object (e.g. "log10").

A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.

Padding to the limits with the ggplot2::expansion function, or a vector of length 2 (e.g. c(0, 0)).

For a numeric or date variable, any values that the scale should include (e.g. 0).

A function that takes the breaks as inputs (e.g. scales::label_comma()), or a vector of labels.

A vector of length 2 to determine the limits of the axis.

A scales::oob_* function for how to deal with out-of-bounds values.

A secondary axis specified by the ggplot2::sec_axis or ggplot2::dup_axis function.

Axis title string. Defaults to converting to sentence case with spaces. Use "" for no title.

For a numeric variable, a transformation object (e.g. "log10").

A function that takes the limits as input (e.g. scales::breaks_pretty()), or a vector of breaks.

For a numeric or date variable, any values that the scale should include (e.g. 0).

A function to cut or chop the numeric variable into intervals (e.g. ~ santoku::chop_mean_sd(.x, drop = FALSE)).

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.

The place for the legend. "b" for bottom, "r" for right, "t" for top, or "l" for left.

The number of columns for the legend elements.

The number of rows for the legend elements.

A vector to determine the limits of the axis.

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)

---

d3_pal

D3 palette reordered.

Description

A function to retrieve a vector of hex codes for a non-numeric (or non-orderer) 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 retrieve a hex code for a colour to use for NA values.

**Usage**
```r
pal_na(pal = "#7F7F7F")
```

**Arguments**
- **pal**
  The hex code or name of the NA colour. Defaults to "#7F7F7F".

**Value**
A character vector.

**Examples**
```r
scales::show_col(pal_na())
```

---

**pal_viridis_mix**  
*Viridis palette reordered.*

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

**Usage**
```r
pal_viridis_mix(n)
```

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

**Value**
A character vector of hex codes.

**Examples**
```r
scales::show_col(pal_viridis_mix(9))
```
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