

Package ‘simplevis’

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Type Package

Title Simple 'ggplot2' Visualisation with Less Brainpower

Version 4.3.0

Description Wrapper functions to make 'ggplot2' visualisation easier with less brainpower required.

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URL <https://statisticsnz.github.io/simplevis/>,
<https://github.com/statisticsnz/simplevis/>

BugReports <https://github.com/statisticsNZ/simplevis/issues/>

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scales, sf, shiny, shinycssloaders, snakecase, stringr, tibble,
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`example_sf_point` *Example sf point object.*

Description

Example sf point object.

Usage

`example_sf_point`

Format

An sf object.

Examples

`example_sf_point`

`example_sf_polygon` *Example sf polygon object.*

Description

Example sf polygon object.

Usage

`example_sf_polygon`

Format

An sf object.

Examples

`example_sf_polygon`

gg_bar

*Vertical bar ggplot.***Description**

Vertical bar ggplot that is not coloured and not faceted.

Usage

```
gg_bar(data, x_var, y_var, text_var = NULL, pal = NULL, width = 0.75,
  alpha = 1, size_line = 0.5, title = NULL, title_wrap = 100,
  subtitle = NULL, subtitle_wrap = 100, x_balance = FALSE,
  x_expand = NULL, x_labels = NULL, x_na = TRUE, x_pretty_n = 6,
  x_reorder = FALSE, x_rev = FALSE, x_title = NULL,
  x_title_wrap = 50, x_zero = FALSE, x_zero_line = NULL,
  y_balance = FALSE, y_expand = NULL, y_gridlines_minor = FALSE,
  y_labels = waiver(), y_na = TRUE, y_pretty_n = 5, y_title = NULL,
  y_title_wrap = 50, y_trans = "identity", y_zero = TRUE,
  y_zero_line = NULL, caption = NULL, caption_wrap = 80,
  font_family = "", font_size_title = NULL, font_size_body = NULL,
  mobile = FALSE)
```

Arguments

data	A tibble or dataframe. Required input.
x_var	Unquoted variable to be on the x scale (i.e. character, factor, logical, numeric, date or datetime). If numeric, date or datetime, variable values are bins that are mutually exclusive and equidistant. Required input.
y_var	Unquoted numeric variable to be on the y scale. Required input.
text_var	Unquoted variable to be used as a customised tooltip in combination with <code>plotly::ggplotly(plot, tooltip = "text")</code> . Defaults to NULL.
pal	Character vector of hex codes.
width	Width of bars. Defaults to 0.75.
alpha	The alpha of the fill. Defaults to 1.
size_line	The size of the outlines of bars.
title	Title string. Defaults to NULL.
title_wrap	Number of characters to wrap the title to. Defaults to 100.
subtitle	Subtitle string.
subtitle_wrap	Number of characters to wrap the subtitle to. Defaults to 100.
x_balance	For a numeric x variable, add balance to the x scale so that zero is in the centre. Defaults to FALSE.
x_expand	A vector of range expansion constants used to add padding to the x scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.

x_labels	A function or vector to modify x scale labels, as per the ggplot2 labels argument in ggplot2 scales functions. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep x labels untransformed.
x_na	TRUE or FALSE of whether to include x_var NA values. Defaults to TRUE.
x_pretty_n	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 6.
x_reorder	For a categorical x variable, TRUE or FALSE of whether the x variable variable is to be reordered by the x variable. Defaults to FALSE.
x_rev	For a categorical variable, TRUE or FALSE of whether the x variable variable is reversed. Defaults to FALSE.
x_title	X scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
x_title_wrap	Number of characters to wrap the x title to. Defaults to 50.
x_zero	For a numeric x variable, TRUE or FALSE of whether the minimum of the x scale is zero. Defaults to FALSE.
x_zero_line	For a numeric x variable, TRUE or FALSE of whether to add a zero reference line to the x scale. Defaults to TRUE if there are positive and negative values in x_var. Otherwise defaults to FALSE.
y_balance	For a numeric y variable, add balance to the y scale so that zero is in the centre of the y scale.
y_expand	A vector of range expansion constants used to add padding to the y scale, as per the ggplot2 expand argument in ggplot2 scales functions.
y_gridlines_minor	TRUE or FALSE of whether to add minor gridlines to the y scale. Defaults to FALSE.
y_labels	A function or vector to modify y scale labels, as per the ggplot2 labels argument in ggplot2 scales functions. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep y labels untransformed.
y_na	TRUE or FALSE of whether to include y_var NA values. Defaults to TRUE.
y_pretty_n	For a numeric or date y variable, the desired number of intervals on the y scale, as calculated by the pretty algorithm. Defaults to 5.
y_title	y scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
y_title_wrap	Number of characters to wrap the y title to. Defaults to 50.
y_trans	For a numeric y variable, a string specifying a transformation for the y scale, such as "log10" or "sqrt". Defaults to "identity".
y_zero	For a numeric y variable, TRUE or FALSE of whether the minimum of the y scale is zero. Defaults to TRUE.
y_zero_line	For a numeric y variable, TRUE or FALSE whether to add a zero reference line to the y scale. Defaults to TRUE if there are positive and negative values in y_var. Otherwise defaults to FALSE.
caption	Caption title string.

caption_wrap Number of characters to wrap the caption to. Defaults to 80.
font_family Font family to use. Defaults to "".
font_size_title
 Font size for the title text. Defaults to 11.
font_size_body Font size for all text other than the title. Defaults to 10.
mobile Whether the plot is to be displayed on a mobile device. Defaults to FALSE.
 If within a shiny app with the mobileDetect function, then use mobile = input\$mobile.

Value

A ggplot object.

Examples

```
library(dplyr)
library(simplevis)
library(palmerpenguins)

plot_data <- penguins %>%
  group_by(species) %>%
  summarise(body_mass_g = mean(body_mass_g, na.rm = TRUE))

gg_bar(plot_data,
        x_var = species,
        y_var = body_mass_g)
```

gg_bar_col

Vertical bar ggplot that is coloured.

Description

Vertical bar ggplot that is coloured, but not faceted.

Usage

```
gg_bar_col(data, x_var, y_var, col_var, text_var = NULL,
           position = NULL, pal = NULL, pal_rev = FALSE, width = 0.75,
           alpha = 1, size_line = 0.5, title = NULL, title_wrap = 100,
           subtitle = NULL, subtitle_wrap = 100, x_balance = FALSE,
           x_expand = NULL, x_labels = NULL, x_na = TRUE, x_pretty_n = 6,
           x_rev = FALSE, x_title = NULL, x_title_wrap = 50, x_zero = FALSE,
           x_zero_line = NULL, y_balance = FALSE, y_expand = NULL,
           y_gridlines_minor = FALSE, y_labels = waiver(), y_na = TRUE,
           y_pretty_n = 5, y_title = NULL, y_title_wrap = 50,
           y_trans = "identity", y_zero = TRUE, y_zero_line = NULL,
```

```
col_labels = NULL, col_legend_ncol = NULL, col_legend_nrow = NULL,
col_na = TRUE, col_rev = FALSE, col_title = NULL,
col_title_wrap = 25, caption = NULL, caption_wrap = 80,
font_family = "", font_size_title = NULL, font_size_body = NULL,
mobile = FALSE)
```

Arguments

<code>data</code>	A tibble or dataframe. Required input.
<code>x_var</code>	Unquoted variable to be on the x scale (i.e. character, factor, logical, numeric, date or datetime). If numeric, date or datetime, variable values are bins that are mutually exclusive and equidistant. Required input.
<code>y_var</code>	Unquoted numeric variable to be on the y scale. Required input.
<code>col_var</code>	Unquoted categorical variable to colour the bars. Required input.
<code>text_var</code>	Unquoted variable to be used as a customised tooltip in combination with <code>plotly::ggplotly(plot, tooltip = "text")</code> . Defaults to NULL.
<code>position</code>	Whether bars are positioned by "dodge" or "stack". Defaults to "dodge".
<code>pal</code>	Character vector of hex codes.
<code>pal_rev</code>	Reverses the palette. Defaults to FALSE.
<code>width</code>	Width of bars. Defaults to 0.75.
<code>alpha</code>	The alpha of the fill. Defaults to 1.
<code>size_line</code>	The size of the outlines of bars.
<code>title</code>	Title string. Defaults to NULL.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 100.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 100.
<code>x_balance</code>	For a numeric x variable, add balance to the x scale so that zero is in the centre. Defaults to FALSE.
<code>x_expand</code>	A vector of range expansion constants used to add padding to the x scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>x_labels</code>	A function or vector to modify x scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
<code>x_na</code>	TRUE or FALSE of whether to include <code>x_var</code> NA values. Defaults to TRUE.
<code>x_pretty_n</code>	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 6.
<code>x_rev</code>	For a categorical variable, TRUE or FALSE of whether the x variable variable is reversed. Defaults to FALSE.
<code>x_title</code>	X scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>x_title_wrap</code>	Number of characters to wrap the x title to. Defaults to 50.

<code>x_zero</code>	For a numeric x variable, TRUE or FALSE of whether the minimum of the x scale is zero. Defaults to FALSE.
<code>x_zero_line</code>	For a numeric x variable, TRUE or FALSE of whether to add a zero reference line to the x scale. Defaults to TRUE if there are positive and negative values in <code>x_var</code> . Otherwise defaults to FALSE.
<code>y_balance</code>	For a numeric y variable, add balance to the y scale so that zero is in the centre of the y scale.
<code>y_expand</code>	A vector of range expansion constants used to add padding to the y scale, as per the ggplot2 <code>expand</code> argument in ggplot2 scales functions.
<code>y_gridlines_minor</code>	TRUE or FALSE of whether to add minor gridlines to the y scale. Defaults to FALSE.
<code>y_labels</code>	A function or vector to modify y scale labels, as per the ggplot2 <code>labels</code> argument in ggplot2 scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep y labels untransformed.
<code>y_na</code>	TRUE or FALSE of whether to include <code>y_var</code> NA values. Defaults to TRUE.
<code>y_pretty_n</code>	For a numeric or date y variable, the desired number of intervals on the y scale, as calculated by the pretty algorithm. Defaults to 5.
<code>y_title</code>	y scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>y_title_wrap</code>	Number of characters to wrap the y title to. Defaults to 50.
<code>y_trans</code>	For a numeric y variable, a string specifying a transformation for the y scale, such as "log10" or "sqrt". Defaults to "identity".
<code>y_zero</code>	For a numeric y variable, TRUE or FALSE of whether the minimum of the y scale is zero. Defaults to TRUE.
<code>y_zero_line</code>	For a numeric y variable, TRUE or FALSE whether to add a zero reference line to the y scale. Defaults to TRUE if there are positive and negative values in <code>y_var</code> . Otherwise defaults to FALSE.
<code>col_labels</code>	A function or vector to modify colour scale labels, as per the ggplot2 <code>labels</code> argument in ggplot2 scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep y labels untransformed.
<code>col_legend_ncol</code>	The number of columns in the legend.
<code>col_legend_nrow</code>	The number of rows in the legend.
<code>col_na</code>	TRUE or FALSE of whether to include <code>col_var</code> NA values. Defaults to TRUE.
<code>col_rev</code>	TRUE or FALSE of whether the colour scale is reversed. Defaults to FALSE. Defaults to FALSE.
<code>col_title</code>	Colour title string for the legend. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>col_title_wrap</code>	Number of characters to wrap the colour title to. Defaults to 25.
<code>caption</code>	Caption title string.

caption_wrap Number of characters to wrap the caption to. Defaults to 80.
font_family Font family to use. Defaults to "".
font_size_title
Font size for the title text. Defaults to 11.
font_size_body Font size for all text other than the title. Defaults to 10.
mobile Whether the plot is to be displayed on a mobile device. Defaults to FALSE.
If within a shiny app with the mobileDetect function, then use mobile = input\$isMobile.

Value

A ggplot object.

Examples

```
library(dplyr)
library(simplevis)
library(palmerpenguins)

plot_data <- penguins %>%
  group_by(species, sex) %>%
  summarise(body_mass_g = mean(body_mass_g, na.rm = TRUE))

gg_bar_col(plot_data,
           x_var = species,
           y_var = body_mass_g,
           col_var = sex)

gg_bar_col(plot_data,
           x_var = species,
           y_var = body_mass_g,
           col_var = sex,
           position = "stack")
```

gg_bar_col_facet *Vertical bar ggplot that is coloured and faceted.*

Description

Vertical bar ggplot that is coloured and faceted.

Usage

```
gg_bar_col_facet(data, x_var, y_var, col_var, facet_var, text_var = NULL,
                 position = NULL, pal = NULL, pal_rev = FALSE, width = 0.75,
                 alpha = 1, size_line = 0.5, title = NULL, title_wrap = 100,
                 subtitle = NULL, subtitle_wrap = 100, x_balance = FALSE,
```

```
x_expand = NULL, x_labels = NULL, x_na = TRUE, x_pretty_n = 3,
x_rev = FALSE, x_title = NULL, x_title_wrap = 50, x_zero = FALSE,
x_zero_line = NULL, y_balance = FALSE, y_expand = NULL,
y_gridlines_minor = FALSE, y_labels = waiver(), y_na = TRUE,
y_pretty_n = 4, y_title = NULL, y_title_wrap = 50,
y_trans = "identity", y_zero = TRUE, y_zero_line = NULL,
col_labels = NULL, col_legend_ncol = NULL, col_legend_nrow = NULL,
col_na = TRUE, col_rev = FALSE, col_title = NULL,
col_title_wrap = 25, facet_labels = NULL, facet_na = TRUE,
facet_ncol = NULL, facet_nrow = NULL, facet_scales = "fixed",
caption = NULL, caption_wrap = 80, font_family = "",
font_size_title = NULL, font_size_body = NULL)
```

Arguments

<code>data</code>	A tibble or dataframe. Required input.
<code>x_var</code>	Unquoted variable to be on the x scale (i.e. character, factor, logical, numeric, date or datetime). If numeric, date or datetime, variable values are bins that are mutually exclusive and equidistant. Required input.
<code>y_var</code>	Unquoted numeric variable to be on the y scale. Required input.
<code>col_var</code>	Unquoted categorical variable to colour the bars. Required input.
<code>facet_var</code>	Unquoted categorical variable to facet the data by. Required input.
<code>text_var</code>	Unquoted variable to be used as a customised tooltip in combination with <code>plotly::ggplotly(plot, tooltip = "text")</code> . Defaults to <code>NULL</code> .
<code>position</code>	Whether bars are positioned by "dodge" or "stack". Defaults to "dodge".
<code>pal</code>	Character vector of hex codes.
<code>pal_rev</code>	Reverses the palette. Defaults to <code>FALSE</code> .
<code>width</code>	Width of bars. Defaults to 0.75.
<code>alpha</code>	The alpha of the fill. Defaults to 1.
<code>size_line</code>	The size of the outlines of bars.
<code>title</code>	Title string. Defaults to <code>NULL</code> .
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 100.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 100.
<code>x_balance</code>	For a numeric x variable, add balance to the x scale so that zero is in the centre. Defaults to <code>FALSE</code> .
<code>x_expand</code>	A vector of range expansion constants used to add padding to the x scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>x_labels</code>	A function or vector to modify x scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If <code>NULL</code> , categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
<code>x_na</code>	<code>TRUE</code> or <code>FALSE</code> of whether to include <code>x_var</code> NA values. Defaults to <code>TRUE</code> .

x_pretty_n	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 3.
x_rev	For a categorical variable, TRUE or FALSE of whether the x variable variable is reversed. Defaults to FALSE.
x_title	X scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
x_title_wrap	Number of characters to wrap the x title to. Defaults to 50.
x_zero	For a numeric x variable, TRUE or FALSE of whether the minimum of the x scale is zero. Defaults to FALSE.
x_zero_line	For a numeric x variable, TRUE or FALSE of whether to add a zero reference line to the x scale. Defaults to TRUE if there are positive and negative values in x_var. Otherwise defaults to FALSE.
y_balance	For a numeric y variable, add balance to the y scale so that zero is in the centre of the y scale.
y_expand	A vector of range expansion constants used to add padding to the y scale, as per the ggplot2 expand argument in ggplot2 scales functions.
y_gridlines_minor	TRUE or FALSE of whether to add minor gridlines to the y scale. Defaults to FALSE.
y_labels	A function or vector to modify y scale labels, as per the ggplot2 labels argument in ggplot2 scales functions. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep y labels untransformed.
y_na	TRUE or FALSE of whether to include y_var NA values. Defaults to TRUE.
y_pretty_n	For a numeric or date y variable, the desired number of intervals on the y scale, as calculated by the pretty algorithm. Defaults to 4.
y_title	y scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
y_title_wrap	Number of characters to wrap the y title to. Defaults to 50.
y_trans	For a numeric y variable, a string specifying a transformation for the y scale, such as "log10" or "sqrt". Defaults to "identity".
y_zero	For a numeric y variable, TRUE or FALSE of whether the minimum of the y scale is zero. Defaults to TRUE.
y_zero_line	For a numeric y variable, TRUE or FALSE whether to add a zero reference line to the y scale. Defaults to TRUE if there are positive and negative values in y_var. Otherwise defaults to FALSE.
col_labels	A function or vector to modify colour scale labels, as per the ggplot2 labels argument in ggplot2 scales functions. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep y labels untransformed.
col_legend_ncol	The number of columns in the legend.
col_legend_nrow	The number of rows in the legend.
col_na	TRUE or FALSE of whether to include col_var NA values. Defaults to TRUE.

<code>col_rev</code>	TRUE or FALSE of whether the colour scale is reversed. Defaults to FALSE. Defaults to FALSE.
<code>col_title</code>	Colour title string for the legend. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>col_title_wrap</code>	Number of characters to wrap the colour title to. Defaults to 25.
<code>facet_labels</code>	As per the <code>ggplot2</code> labeller argument within the <code>ggplot</code> <code>facet_wrap</code> function. If NULL, defaults to <code>ggplot2::as_labeller(stringr::str_to_sentence)</code> . Use <code>facet_labels = ggplot2::label_value</code> to turn off default sentence case transformation.
<code>facet_na</code>	TRUE or FALSE of whether to include <code>facet_var</code> NA values. Defaults to TRUE.
<code>facet_ncol</code>	The number of columns of faceted plots.
<code>facet_nrow</code>	The number of rows of faceted plots.
<code>facet_scales</code>	Whether <code>facet_scales</code> should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>caption</code>	Caption title string.
<code>caption_wrap</code>	Number of characters to wrap the caption to. Defaults to 80.
<code>font_family</code>	Font family to use. Defaults to "".
<code>font_size_title</code>	Font size for the title text. Defaults to 11.
<code>font_size_body</code>	Font size for all text other than the title. Defaults to 10.

Value

A `ggplot` object.

Examples

```
library(dplyr)
library(simplevis)
library(palmerpenguins)

plot_data <- penguins %>%
  group_by(species, sex, island) %>%
  summarise(body_mass_g = mean(body_mass_g, na.rm = TRUE))

gg_bar_col_facet(plot_data,
  x_var = species,
  y_var = body_mass_g,
  col_var = island,
  facet_var = sex,
  facet_na = FALSE)
```

gg_bar_facet	<i>Vertical bar ggplot that is faceted.</i>
--------------	---

Description

Vertical bar ggplot that is faceted, but not coloured.

Usage

```
gg_bar_facet(data, x_var, y_var, facet_var, text_var = NULL,
  pal = NULL, width = 0.75, alpha = 1, size_line = 0.5,
  title = NULL, title_wrap = 100, subtitle = NULL,
  subtitle_wrap = 100, x_balance = FALSE, x_expand = NULL,
  x_labels = NULL, x_na = TRUE, x_pretty_n = 3, x_rev = FALSE,
  x_title = NULL, x_title_wrap = 50, x_zero = FALSE,
  x_zero_line = NULL, y_balance = FALSE, y_expand = NULL,
  y_gridlines_minor = FALSE, y_labels = waiver(), y_na = TRUE,
  y_pretty_n = 4, y_title = NULL, y_title_wrap = 50,
  y_trans = "identity", y_zero = TRUE, y_zero_line = NULL,
  facet_labels = NULL, facet_na = TRUE, facet_ncol = NULL,
  facet_nrow = NULL, facet_scales = "fixed", caption = NULL,
  caption_wrap = 80, font_family = "", font_size_title = NULL,
  font_size_body = NULL)
```

Arguments

data	A tibble or dataframe. Required input.
x_var	Unquoted variable to be on the x scale (i.e. character, factor, logical, numeric, date or datetime). If numeric, date or datetime, variable values are bins that are mutually exclusive and equidistant. Required input.
y_var	Unquoted numeric variable to be on the y scale. Required input.
facet_var	Unquoted categorical variable to facet the data by. Required input.
text_var	Unquoted variable to be used as a customised tooltip in combination with <code>plotly::ggplotly(plot, tooltip = "text")</code> . Defaults to NULL.
pal	Character vector of hex codes.
width	Width of bars. Defaults to 0.75.
alpha	The alpha of the fill. Defaults to 1.
size_line	The size of the outlines of bars.
title	Title string. Defaults to NULL.
title_wrap	Number of characters to wrap the title to. Defaults to 100.
subtitle	Subtitle string.
subtitle_wrap	Number of characters to wrap the subtitle to. Defaults to 100.

<code>x_balance</code>	For a numeric x variable, add balance to the x scale so that zero is in the centre. Defaults to FALSE.
<code>x_expand</code>	A vector of range expansion constants used to add padding to the x scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>x_labels</code>	A function or vector to modify x scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
<code>x_na</code>	TRUE or FALSE of whether to include <code>x_var</code> NA values. Defaults to TRUE.
<code>x_pretty_n</code>	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 3.
<code>x_rev</code>	For a categorical variable, TRUE or FALSE of whether the x variable variable is reversed. Defaults to FALSE.
<code>x_title</code>	X scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>x_title_wrap</code>	Number of characters to wrap the x title to. Defaults to 50.
<code>x_zero</code>	For a numeric x variable, TRUE or FALSE of whether the minimum of the x scale is zero. Defaults to FALSE.
<code>x_zero_line</code>	For a numeric x variable, TRUE or FALSE of whether to add a zero reference line to the x scale. Defaults to TRUE if there are positive and negative values in <code>x_var</code> . Otherwise defaults to FALSE.
<code>y_balance</code>	For a numeric y variable, add balance to the y scale so that zero is in the centre of the y scale.
<code>y_expand</code>	A vector of range expansion constants used to add padding to the y scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>y_gridlines_minor</code>	TRUE or FALSE of whether to add minor gridlines to the y scale. Defaults to FALSE.
<code>y_labels</code>	A function or vector to modify y scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep y labels untransformed.
<code>y_na</code>	TRUE or FALSE of whether to include <code>y_var</code> NA values. Defaults to TRUE.
<code>y_pretty_n</code>	For a numeric or date y variable, the desired number of intervals on the y scale, as calculated by the pretty algorithm. Defaults to 4.
<code>y_title</code>	y scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>y_title_wrap</code>	Number of characters to wrap the y title to. Defaults to 50.
<code>y_trans</code>	For a numeric y variable, a string specifying a transformation for the y scale, such as "log10" or "sqrt". Defaults to "identity".
<code>y_zero</code>	For a numeric y variable, TRUE or FALSE of whether the minimum of the y scale is zero. Defaults to TRUE.
<code>y_zero_line</code>	For a numeric y variable, TRUE or FALSE whether to add a zero reference line to the y scale. Defaults to TRUE if there are positive and negative values in <code>y_var</code> . Otherwise defaults to FALSE.

facet_labels	As per the ggplot2 labeller argument within the ggplot facet_wrap function. If NULL, defaults to ggplot2::as_labeller(stringr::str_to_sentence). Use facet_labels = ggplot2::label_value to turn off default sentence case transformation.
facet_na	TRUE or FALSE of whether to include facet_var NA values. Defaults to TRUE.
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.
caption_wrap	Number of characters to wrap the caption to. Defaults to 80.
font_family	Font family to use. Defaults "".
font_size_title	Font size for the title text. Defaults to 11.
font_size_body	Font size for all text other than the title. Defaults to 10.

Value

A ggplot object.

Examples

```
library(dplyr)
library(simplevis)
library(palmerpenguins)

plot_data <- penguins %>%
  group_by(species, sex) %>%
  summarise(body_mass_g = mean(body_mass_g, na.rm = TRUE))

gg_bar_facet(plot_data,
             x_var = sex,
             y_var = body_mass_g,
             facet_var = species)
```

gg_boxplot

Boxplot ggplot.

Description

Boxplot ggplot that is not coloured and not faceted.

Usage

```
gg_boxplot(data, x_var, y_var = NULL, stat = "boxplot", pal = NULL,
  width = 0.5, alpha = 1, size_line = 0.5, size_point = 1,
  title = NULL, title_wrap = 100, subtitle = NULL,
  subtitle_wrap = 100, x_balance = FALSE, x_labels = NULL,
  x_na = TRUE, x_pretty_n = 6, x_expand = NULL, x_rev = FALSE,
  x_title = NULL, x_title_wrap = 50, x_zero = FALSE,
  x_zero_line = NULL, y_balance = FALSE, y_expand = NULL,
  y_gridlines_minor = FALSE, y_labels = waiver(), y_na = TRUE,
  y_pretty_n = 5, y_title = NULL, y_title_wrap = 50,
  y_trans = "identity", y_zero = FALSE, y_zero_line = NULL,
  caption = NULL, caption_wrap = 80, font_family = "",
  font_size_title = NULL, font_size_body = NULL, mobile = FALSE)
```

Arguments

<code>data</code>	A tibble or dataframe. Required input.
<code>x_var</code>	Unquoted variable to be on the x scale (i.e. character, factor, logical, numeric, date or datetime). Required input.
<code>y_var</code>	Generally an unquoted numeric variable to be on the y scale. However if <code>stat = "identity"</code> is selected, a list-column with <code>min</code> , <code>lower</code> , <code>middle</code> , <code>upper</code> , and <code>max</code> variable names.
<code>stat</code>	String of "boxplot" or "identity". Defaults to "boxplot".
<code>pal</code>	Character vector of hex codes.
<code>width</code>	Width of the box. Defaults to 0.5.
<code>alpha</code>	The alpha of the fill. Defaults to 1.
<code>size_line</code>	The size of the outlines of boxplots. Defaults to 0.5.
<code>size_point</code>	The size of the outliers. Defaults to 1.
<code>title</code>	Title string. Defaults to NULL.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 100. Not applicable where <code>mobile</code> equals TRUE.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 100. Not applicable where <code>mobile</code> equals TRUE.
<code>x_balance</code>	For a numeric x variable, add balance to the x scale so that zero is in the centre. Defaults to FALSE.
<code>x_labels</code>	A function or vector to modify x scale labels, as per the <code>ggplot2</code> labels argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
<code>x_na</code>	TRUE or FALSE of whether to include <code>x_var</code> NA values. Defaults to TRUE.
<code>x_pretty_n</code>	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 6.

x_expand	A vector of range expansion constants used to add padding to the x scale, as per the ggplot2 expand argument in ggplot2 scales functions.
x_rev	For a categorical x variable, TRUE or FALSE of whether the x variable variable is reversed. Defaults to FALSE.
x_title	X scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
x_title_wrap	Number of characters to wrap the x title to. Defaults to 50.
x_zero	For a numeric x variable, TRUE or FALSE of whether the minimum of the x scale is zero. Defaults to FALSE.
x_zero_line	For a numeric x variable, TRUE or FALSE of whether to add a zero reference line to the x scale. Defaults to TRUE if there are positive and negative values in x_var. Otherwise defaults to FALSE.
y_balance	For a numeric y variable, add balance to the y scale so that zero is in the centre of the y scale.
y_expand	A vector of range expansion constants used to add padding to the y scale, as per the ggplot2 expand argument in ggplot2 scales functions.
y_gridlines_minor	TRUE or FALSE of whether to add minor gridlines to the y scale. Defaults to FALSE.
y_labels	A function or vector to modify y scale labels, as per the ggplot2 labels argument in ggplot2 scales functions. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep y labels untransformed.
y_na	TRUE or FALSE of whether to include y_var NA values. Defaults to TRUE.
y_pretty_n	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 5.
y_title	y scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
y_title_wrap	Number of characters to wrap the y title to. Defaults to 50.
y_trans	For a numeric y variable, a string specifying a transformation for the y scale, such as "log10" or "sqrt". Defaults to "identity".
y_zero	For a numeric y variable, TRUE or FALSE of whether the minimum of the y scale is zero. Defaults to TRUE.
y_zero_line	For a numeric y variable, TRUE or FALSE whether to add a zero reference line to the y scale. Defaults to TRUE if there are positive and negative values in y_var. Otherwise defaults to FALSE.
caption	Caption title string.
caption_wrap	Number of characters to wrap the caption to. Defaults to 80. Not applicable where mobile equals TRUE.
font_family	Font family to use. Defaults to "".
font_size_title	Font size for the title text. Defaults to 11.
font_size_body	Font size for all text other than the title. Defaults to 10.
mobile	Whether the plot is to be displayed on a mobile device. Defaults to FALSE. If within a shiny app with the mobileDetect function, then use mobile = input\$isMobile.

Value

A ggplot object.

Examples

```
library(dplyr)
library(simplevis)
library(palmerpenguins)

gg_boxplot(penguins,
           x_var = species,
           y_var = body_mass_g)

plot_data <- penguins %>%
  group_by(species) %>%
  summarise(across(bill_length_mm, ~ list(
    rlang::set_names(
      boxplot.stats(.x)$stats,
      c('min', 'lower', 'middle', 'upper', 'max')
    )
  )))

plot_data

plot_data %>%
  tidyr::unnest_wider(bill_length_mm)

gg_boxplot(plot_data,
           x_var = species,
           y_var = bill_length_mm,
           stat = "identity")
```

gg_boxplot_col

Boxplot ggplot that is coloured

Description

Boxplot ggplot that is coloured

Usage

```
gg_boxplot_col(data, x_var, y_var = NULL, col_var, stat = "boxplot",
              pal = NULL, pal_rev = FALSE, width = 0.5, alpha = 1,
              size_line = 0.5, size_point = 1, title = NULL, title_wrap = 100,
              subtitle = NULL, subtitle_wrap = 100, x_balance = FALSE,
              x_labels = NULL, x_pretty_n = 6, x_expand = NULL, x_na = TRUE,
              x_title = NULL, x_title_wrap = 50, x_zero = FALSE,
              x_zero_line = NULL, y_balance = FALSE, y_expand = NULL,
```

```

y_gridlines_minor = FALSE, y_labels = waiver(), y_na = TRUE,
y_pretty_n = 5, x_rev = FALSE, y_title = NULL, y_title_wrap = 50,
y_trans = "identity", y_zero = FALSE, y_zero_line = NULL,
col_labels = NULL, col_legend_ncol = NULL, col_legend_nrow = NULL,
col_na = TRUE, col_title = NULL, col_title_wrap = 25,
caption = NULL, caption_wrap = 80, font_family = "",
font_size_title = NULL, font_size_body = NULL, mobile = FALSE)

```

Arguments

<code>data</code>	A tibble or dataframe. Required input.
<code>x_var</code>	Unquoted variable to be on the x scale (i.e. character, factor, logical, numeric, date or datetime). Required input.
<code>y_var</code>	Generally an unquoted numeric variable to be on the y scale. However if <code>stat = "identity"</code> is selected, a list-column with min, lower, middle, upper, and max variable names.
<code>col_var</code>	Unquoted categorical variable to colour the fill of the boxes. Required input.
<code>stat</code>	String of "boxplot" or "identity". Defaults to "boxplot".
<code>pal</code>	Character vector of hex codes.
<code>pal_rev</code>	Reverses the palette. Defaults to FALSE.
<code>width</code>	Width of the box. Defaults to 0.5.
<code>alpha</code>	The alpha of the fill. Defaults to 1.
<code>size_line</code>	The size of the outlines of boxplots. Defaults to 0.5.
<code>size_point</code>	The size of the outliers. Defaults to 1.
<code>title</code>	Title string. Defaults to NULL.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 100. Not applicable where <code>mobile</code> equals TRUE.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 100. Not applicable where <code>mobile</code> equals TRUE.
<code>x_balance</code>	For a numeric x variable, add balance to the x scale so that zero is in the centre. Defaults to FALSE.
<code>x_labels</code>	A function or vector to modify x scale labels, as per the <code>ggplot2</code> labels argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
<code>x_pretty_n</code>	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 6.
<code>x_expand</code>	A vector of range expansion constants used to add padding to the x scale, as per the <code>ggplot2</code> expand argument in <code>ggplot2</code> scales functions.
<code>x_na</code>	TRUE or FALSE of whether to include <code>x_var</code> NA values. Defaults to TRUE.
<code>x_title</code>	X scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.

<code>x_title_wrap</code>	Number of characters to wrap the x title to. Defaults to 50.
<code>x_zero</code>	For a numeric x variable, TRUE or FALSE of whether the minimum of the x scale is zero. Defaults to FALSE.
<code>x_zero_line</code>	For a numeric x variable, TRUE or FALSE of whether to add a zero reference line to the x scale. Defaults to TRUE if there are positive and negative values in <code>x_var</code> . Otherwise defaults to FALSE.
<code>y_balance</code>	For a numeric y variable, add balance to the y scale so that zero is in the centre of the y scale.
<code>y_expand</code>	A vector of range expansion constants used to add padding to the y scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>y_gridlines_minor</code>	TRUE or FALSE of whether to add minor gridlines to the y scale. Defaults to FALSE.
<code>y_labels</code>	A function or vector to modify y scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep y labels untransformed.
<code>y_na</code>	TRUE or FALSE of whether to include <code>y_var</code> NA values. Defaults to TRUE.
<code>y_pretty_n</code>	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 5.
<code>x_rev</code>	For a categorical x variable, TRUE or FALSE of whether the x variable variable is reversed. Defaults to FALSE.
<code>y_title</code>	y scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>y_title_wrap</code>	Number of characters to wrap the y title to. Defaults to 50.
<code>y_trans</code>	For a numeric y variable, a string specifying a transformation for the y scale, such as "log10" or "sqrt". Defaults to "identity".
<code>y_zero</code>	For a numeric y variable, TRUE or FALSE of whether the minimum of the y scale is zero. Defaults to TRUE.
<code>y_zero_line</code>	For a numeric y variable, TRUE or FALSE whether to add a zero reference line to the y scale. Defaults to TRUE if there are positive and negative values in <code>y_var</code> . Otherwise defaults to FALSE.
<code>col_labels</code>	A function or vector to modify colour scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep y labels untransformed.
<code>col_legend_ncol</code>	The number of columns in the legend. Defaults to 1.
<code>col_legend_nrow</code>	The number of rows in the legend.
<code>col_na</code>	TRUE or FALSE of whether to include <code>col_var</code> NA values. Defaults to TRUE.
<code>col_title</code>	Colour title string for the legend. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>col_title_wrap</code>	Number of characters to wrap the colour title to. Defaults to 25. Not applicable where <code>mobile</code> equals TRUE.

caption	Caption title string.
caption_wrap	Number of characters to wrap the caption to. Defaults to 80. Not applicable where mobile equals TRUE.
font_family	Font family to use. Defaults to "".
font_size_title	Font size for the title text. Defaults to 11.
font_size_body	Font size for all text other than the title. Defaults to 10.
mobile	Whether the plot is to be displayed on a mobile device. Defaults to FALSE. If within a shiny app with the mobileDetect function, then use mobile = input\$mobile.

Value

A ggplot object.

Examples

```
library(simplevis)
library(palmerpenguins)

gg_boxplot_col(penguins,
               x_var = species,
               y_var = body_mass_g,
               col_var = sex)

plot <- gg_boxplot_col(penguins,
                      x_var = species,
                      y_var = body_mass_g,
                      col_var = sex)

plotly::ggplotly(plot) %>%
  plotly::layout(boxmode = "group") %>%
  plotly_camera()
```

gg_boxplot_col_facet *Boxplot ggplot that is coloured*

Description

Boxplot ggplot that is coloured

Usage

```
gg_boxplot_col_facet(data, x_var, y_var = NULL, col_var, facet_var,
  stat = "boxplot", pal = NULL, pal_rev = FALSE, width = 0.5,
  alpha = 1, size_line = 0.5, size_point = 1, title = NULL,
  title_wrap = 100, subtitle = NULL, subtitle_wrap = 100,
  x_balance = FALSE, x_labels = NULL, x_na = TRUE, x_pretty_n = 3,
  x_expand = NULL, x_rev = FALSE, x_title = NULL,
  x_title_wrap = 50, x_zero = FALSE, x_zero_line = NULL,
  y_balance = FALSE, y_expand = NULL, y_gridlines_minor = FALSE,
  y_labels = waiver(), y_na = TRUE, y_pretty_n = 4, y_title = NULL,
  y_title_wrap = 50, y_trans = "identity", y_zero = FALSE,
  y_zero_line = NULL, col_labels = NULL, col_legend_ncol = NULL,
  col_legend_nrow = NULL, col_na = TRUE, col_title = NULL,
  col_title_wrap = 25, facet_labels = NULL, facet_na = TRUE,
  facet_ncol = NULL, facet_nrow = NULL, facet_scales = "fixed",
  caption = NULL, caption_wrap = 80, font_family = "",
  font_size_title = NULL, font_size_body = NULL)
```

Arguments

<code>data</code>	A tibble or dataframe. Required input.
<code>x_var</code>	Unquoted variable to be on the x scale (i.e. character, factor, logical, numeric, date or datetime). Required input.
<code>y_var</code>	Generally an unquoted numeric variable to be on the y scale. However if <code>stat = "identity"</code> is selected, a list-column with min, lower, middle, upper, and max variable names.
<code>col_var</code>	Unquoted categorical variable to colour the fill of the boxes. Required input.
<code>facet_var</code>	Unquoted categorical variable to facet the data by. Required input.
<code>stat</code>	String of "boxplot" or "identity". Defaults to "boxplot".
<code>pal</code>	Character vector of hex codes.
<code>pal_rev</code>	Reverses the palette. Defaults to FALSE.
<code>width</code>	Width of the box. Defaults to 0.5.
<code>alpha</code>	The alpha of the fill. Defaults to 1.
<code>size_line</code>	The size of the outlines of boxplots. Defaults to 0.5.
<code>size_point</code>	The size of the outliers. Defaults to 1.
<code>title</code>	Title string. Defaults to NULL.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 100. Not applicable where <code>mobile</code> equals TRUE.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 100. Not applicable where <code>mobile</code> equals TRUE.
<code>x_balance</code>	For a numeric x variable, add balance to the x scale so that zero is in the centre. Defaults to FALSE.

x_labels	A function or vector to modify x scale labels, as per the ggplot2 labels argument in ggplot2 scales functions. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep x labels untransformed.
x_na	TRUE or FALSE of whether to include x_var NA values. Defaults to TRUE.
x_pretty_n	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 3.
x_expand	A vector of range expansion constants used to add padding to the x scale, as per the ggplot2 expand argument in ggplot2 scales functions.
x_rev	For a categorical x variable, TRUE or FALSE of whether the x variable variable is reversed. Defaults to FALSE.
x_title	X scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
x_title_wrap	Number of characters to wrap the x title to. Defaults to 50.
x_zero	For a numeric x variable, TRUE or FALSE of whether the minimum of the x scale is zero. Defaults to FALSE.
x_zero_line	For a numeric x variable, TRUE or FALSE of whether to add a zero reference line to the x scale. Defaults to TRUE if there are positive and negative values in x_var. Otherwise defaults to FALSE.
y_balance	For a numeric y variable, add balance to the y scale so that zero is in the centre of the y scale.
y_expand	A vector of range expansion constants used to add padding to the y scale, as per the ggplot2 expand argument in ggplot2 scales functions.
y_gridlines_minor	TRUE or FALSE of whether to add minor gridlines to the y scale. Defaults to FALSE.
y_labels	A function or vector to modify y scale labels, as per the ggplot2 labels argument in ggplot2 scales functions. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep y labels untransformed.
y_na	TRUE or FALSE of whether to include y_var NA values. Defaults to TRUE.
y_pretty_n	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 4.
y_title	y scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
y_title_wrap	Number of characters to wrap the y title to. Defaults to 50.
y_trans	For a numeric y variable, a string specifying a transformation for the y scale, such as "log10" or "sqrt". Defaults to "identity".
y_zero	For a numeric y variable, TRUE or FALSE of whether the minimum of the y scale is zero. Defaults to TRUE.
y_zero_line	For a numeric y variable, TRUE or FALSE whether to add a zero reference line to the y scale. Defaults to TRUE if there are positive and negative values in y_var. Otherwise defaults to FALSE.
col_labels	A function or vector to modify colour scale labels, as per the ggplot2 labels argument in ggplot2 scales functions. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep y labels untransformed.

<code>col_legend_ncol</code>	The number of columns in the legend. Defaults to 1.
<code>col_legend_nrow</code>	The number of rows in the legend.
<code>col_na</code>	TRUE or FALSE of whether to include <code>col_var</code> NA values. Defaults to TRUE.
<code>col_title</code>	Colour title string for the legend. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>col_title_wrap</code>	Number of characters to wrap the colour title to. Defaults to 25. Not applicable where <code>mobile</code> equals TRUE.
<code>facet_labels</code>	As per the <code>ggplot2</code> <code>labeller</code> argument within the <code>ggplot</code> <code>facet_wrap</code> function. If NULL, defaults to <code>ggplot2::as_labeller(stringr::str_to_sentence)</code> . Use <code>facet_labels = ggplot2::label_value</code> to turn off default sentence case transformation.
<code>facet_na</code>	TRUE or FALSE of whether to include <code>facet_var</code> NA values. Defaults to TRUE.
<code>facet_ncol</code>	The number of columns of faceted plots.
<code>facet_nrow</code>	The number of rows of faceted plots.
<code>facet_scales</code>	Whether <code>facet_scales</code> should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>caption</code>	Caption title string.
<code>caption_wrap</code>	Number of characters to wrap the caption to. Defaults to 80. Not applicable where <code>mobile</code> equals TRUE.
<code>font_family</code>	Font family to use. Defaults to "".
<code>font_size_title</code>	Font size for the title text. Defaults to 11.
<code>font_size_body</code>	Font size for all text other than the title. Defaults to 10.

Value

A `ggplot` object.

Examples

```
library(dplyr)
library(simplevis)
library(palmerpenguins)

plot_data <- penguins %>%
  mutate(year = as.character(year))

gg_boxplot_col_facet(plot_data,
  x_var = year,
  y_var = body_mass_g,
  col_var = sex,
  facet_var = species)

plot <- gg_boxplot_col_facet(plot_data,
  x_var = year,
```



```

      y_var = body_mass_g,
      col_var = sex,
      facet_var = species)

plotly::ggplotly(plot) %>%
  plotly::layout(boxmode = "group") %>%
  plotly_camera()

```

gg_boxplot_facet *Boxplot ggplot that is faceted.*

Description

Boxplot ggplot that is faceted, but not coloured.

Usage

```

gg_boxplot_facet(data, x_var, y_var = NULL, facet_var,
  stat = "boxplot", pal = NULL, width = 0.5, alpha = 1,
  size_line = 0.5, size_point = 1, title = NULL, title_wrap = 100,
  subtitle = NULL, subtitle_wrap = 100, x_balance = FALSE,
  x_expand = NULL, x_labels = NULL, x_na = TRUE, x_pretty_n = 3,
  x_rev = FALSE, x_title = NULL, x_title_wrap = 50, x_zero = FALSE,
  x_zero_line = NULL, y_balance = FALSE, y_expand = NULL,
  y_gridlines_minor = FALSE, y_labels = waiver(), y_na = TRUE,
  y_pretty_n = 4, y_title = NULL, y_title_wrap = 50,
  y_trans = "identity", y_zero = FALSE, y_zero_line = NULL,
  facet_labels = NULL, facet_na = TRUE, facet_ncol = NULL,
  facet_nrow = NULL, facet_scales = "fixed", caption = NULL,
  caption_wrap = 80, font_family = "", font_size_title = NULL,
  font_size_body = NULL)

```

Arguments

data	An tibble or dataframe. Required input.
x_var	Unquoted variable to be on the x scale (i.e. character, factor, logical, numeric, date or datetime). Required input.
y_var	Generally an unquoted numeric variable to be on the y scale. However if stat = "identity" is selected, a list-column with min, lower, middle, upper, and max variable names.
facet_var	Unquoted categorical variable to facet the data by. Required input.
stat	String of "boxplot" or "identity". Defaults to "boxplot".
pal	Character vector of hex codes.
width	Width of the box. Defaults to 0.5.
alpha	The alpha of the fill. Defaults to 1.

<code>size_line</code>	The size of the outlines of boxplots. Defaults to 0.5.
<code>size_point</code>	The size of the outliers. Defaults to 1.
<code>title</code>	Title string. Defaults to NULL.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 100.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 100.
<code>x_balance</code>	For a numeric x variable, add balance to the x scale so that zero is in the centre. Defaults to FALSE.
<code>x_expand</code>	A vector of range expansion constants used to add padding to the x scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>x_labels</code>	A function or vector to modify x scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
<code>x_na</code>	TRUE or FALSE of whether to include <code>x_var</code> NA values. Defaults to TRUE.
<code>x_pretty_n</code>	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 3.
<code>x_rev</code>	For a categorical x variable, TRUE or FALSE of whether the x variable variable is reversed. Defaults to FALSE.
<code>x_title</code>	X scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>x_title_wrap</code>	Number of characters to wrap the x title to. Defaults to 50.
<code>x_zero</code>	For a numeric x variable, TRUE or FALSE of whether the minimum of the x scale is zero. Defaults to FALSE.
<code>x_zero_line</code>	For a numeric x variable, TRUE or FALSE of whether to add a zero reference line to the x scale. Defaults to TRUE if there are positive and negative values in <code>x_var</code> . Otherwise defaults to FALSE.
<code>y_balance</code>	For a numeric y variable, add balance to the y scale so that zero is in the centre of the y scale.
<code>y_expand</code>	A vector of range expansion constants used to add padding to the y scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>y_gridlines_minor</code>	TRUE or FALSE of whether to add minor gridlines to the y scale. Defaults to FALSE.
<code>y_labels</code>	A function or vector to modify y scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep y labels untransformed.
<code>y_na</code>	TRUE or FALSE of whether to include <code>y_var</code> NA values. Defaults to TRUE.
<code>y_pretty_n</code>	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 4.
<code>y_title</code>	y scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.

<code>y_title_wrap</code>	Number of characters to wrap the y title to. Defaults to 50.
<code>y_trans</code>	For a numeric y variable, a string specifying a transformation for the y scale, such as "log10" or "sqrt". Defaults to "identity".
<code>y_zero</code>	For a numeric y variable, TRUE or FALSE of whether the minimum of the y scale is zero. Defaults to TRUE.
<code>y_zero_line</code>	For a numeric y variable, TRUE or FALSE whether to add a zero reference line to the y scale. Defaults to TRUE if there are positive and negative values in <code>y_var</code> . Otherwise defaults to FALSE.
<code>facet_labels</code>	As per the <code>ggplot2</code> <code>labeller</code> argument within the <code>ggplot</code> <code>facet_wrap</code> function. If NULL, defaults to <code>ggplot2::as_labeller(stringr::str_to_sentence)</code> . Use <code>facet_labels = ggplot2::label_value</code> to turn off default sentence case transformation.
<code>facet_na</code>	TRUE or FALSE of whether to include <code>facet_var</code> NA values. Defaults to TRUE.
<code>facet_ncol</code>	The number of columns of faceted plots.
<code>facet_nrow</code>	The number of rows of faceted plots.
<code>facet_scales</code>	Whether <code>facet_scales</code> should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>caption</code>	Caption title string.
<code>caption_wrap</code>	Number of characters to wrap the caption to. Defaults to 80.
<code>font_family</code>	Font family to use. Defaults to "".
<code>font_size_title</code>	Font size for the title text. Defaults to 11.
<code>font_size_body</code>	Font size for all text other than the title. Defaults to 10.

Value

A `ggplot` object.

Examples

```
library(dplyr)
library(simplevis)
library(palmerpenguins)

gg_boxplot_facet(penguins,
                 x_var = sex,
                 y_var = body_mass_g,
                 facet_var = species)
```

gg_density

*Smoothed density ggplot.***Description**

Smoothed density ggplot that is not coloured and not faceted.

Usage

```
gg_density(data, x_var, density_bw = "nrd0", density_adjust = 1,
  density_kernel = "gaussian", density_n = 512, density_trim = FALSE,
  pal = NULL, alpha = 0.1, size_line = 0.5, title = NULL,
  title_wrap = 100, subtitle = NULL, subtitle_wrap = 100,
  x_balance = FALSE, x_expand = NULL, x_labels = NULL,
  x_pretty_n = 6, x_title = NULL, x_title_wrap = 50,
  x_zero = FALSE, x_zero_line = NULL, y_expand = NULL,
  y_gridlines_minor = FALSE, y_labels = scales::number,
  y_pretty_n = 5, y_title = NULL, y_title_wrap = 50,
  caption = NULL, caption_wrap = 80, font_family = "",
  font_size_title = NULL, font_size_body = NULL, mobile = FALSE)
```

Arguments

data	A tibble or dataframe. Required input.
x_var	Unquoted numeric variable to be on the x scale. Required input.
density_bw	The bw argument of the stats::density function. Defaults to "nrd0".
density_adjust	The adjust argument of the stats::density function. Defaults to 1.
density_kernel	The kernel argument of the stats::density function. Defaults to "gaussian".
density_n	The n argument of the stats::density function. Defaults to 512.
density_trim	The trim argument of the stats::density function. Defaults to FALSE.
pal	Character vector of hex codes.
alpha	The alpha of the fill. Defaults to 1.
size_line	The size of the outlines of density areas.
title	Title string. Defaults to NULL.
title_wrap	Number of characters to wrap the title to. Defaults to 100.
subtitle	Subtitle string.
subtitle_wrap	Number of characters to wrap the subtitle to. Defaults to 100.
x_balance	For a numeric x variable, add balance to the x scale so that zero is in the centre. Defaults to FALSE.
x_expand	A vector of range expansion constants used to add padding to the x scale, as per the ggplot2 expand argument in ggplot2 scales functions.

x_labels	A function or vector to modify x scale labels, as per the ggplot2 labels argument in ggplot2 scales functions. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep x labels untransformed.
x_pretty_n	For a numeric x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 6.
x_title	X scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
x_title_wrap	Number of characters to wrap the x title to. Defaults to 50.
x_zero	For a numeric x variable, TRUE or FALSE of whether the minimum of the x scale is zero. Defaults to FALSE.
x_zero_line	For a numeric x variable, TRUE or FALSE of whether to add a zero reference line to the x scale. Defaults to TRUE if there are positive and negative values in x_var. Otherwise defaults to FALSE.
y_expand	A vector of range expansion constants used to add padding to the y scale, as per the ggplot2 expand argument in ggplot2 scales functions.
y_gridlines_minor	TRUE or FALSE of whether to add minor gridlines to the y scale. Defaults to FALSE.
y_labels	A function or vector to modify y scale labels, as per the ggplot2 labels argument in ggplot2 scales functions. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep y labels untransformed.
y_pretty_n	For a numeric y variable, the desired number of intervals on the y scale, as calculated by the pretty algorithm. Defaults to 5.
y_title	y scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
y_title_wrap	Number of characters to wrap the y title to. Defaults to 50.
caption	Caption title string.
caption_wrap	Number of characters to wrap the caption to. Defaults to 80.
font_family	Font family to use. Defaults to "".
font_size_title	Font size for the title text. Defaults to 11.
font_size_body	Font size for all text other than the title. Defaults to 10.
mobile	Whether the plot is to be displayed on a mobile device. Defaults to FALSE. If within a shiny app with the mobileDetect function, then use mobile = input\$isMobile.

Value

A ggplot object.

Examples

```
library(simplevis)
library(palmerpenguins)

gg_density(penguins,
           x_var = body_mass_g)
```

gg_density_col *Smoothed density ggplot that is coloured.*

Description

Smoothed density ggplot that is coloured but not faceted.

Usage

```
gg_density_col(data, x_var, col_var, density_bw = "nrd0",
               density_adjust = 1, density_kernel = "gaussian", density_n = 512,
               density_trim = FALSE, pal = NULL, pal_rev = FALSE, alpha = 0.1,
               size_line = 0.5, title = NULL, title_wrap = 100, subtitle = NULL,
               subtitle_wrap = 100, x_balance = FALSE, x_expand = NULL,
               x_labels = NULL, x_pretty_n = 6, x_title = NULL,
               x_title_wrap = 50, x_zero = FALSE, x_zero_line = NULL,
               y_expand = NULL, y_gridlines_minor = FALSE,
               y_labels = scales::number, y_pretty_n = 5, y_title = NULL,
               y_title_wrap = 50, col_labels = NULL, col_legend_ncol = NULL,
               col_legend_nrow = NULL, col_na = TRUE, col_rev = FALSE,
               col_title = NULL, col_title_wrap = 25, caption = NULL,
               caption_wrap = 80, font_family = "", font_size_title = NULL,
               font_size_body = NULL, mobile = FALSE)
```

Arguments

data	A tibble or dataframe. Required input.
x_var	Unquoted numeric variable to be on the x scale. Required input.
col_var	Unquoted categorical variable to colour density areas. Required input.
density_bw	The bw argument of the stats::density function. Defaults to "nrd0".
density_adjust	The adjust argument of the stats::density function. Defaults to 1.
density_kernel	The kernel argument of the stats::density function. Defaults to "gaussian".
density_n	The n argument of the stats::density function. Defaults to 512.
density_trim	The trim argument of the stats::density function. Defaults to FALSE.
pal	Character vector of hex codes.
pal_rev	Reverses the palette. Defaults to FALSE.

alpha	The alpha of the fill. Defaults to 0.1.
size_line	The size of the outlines of density areas.
title	Title string. Defaults to NULL.
title_wrap	Number of characters to wrap the title to. Defaults to 100.
subtitle	Subtitle string.
subtitle_wrap	Number of characters to wrap the subtitle to. Defaults to 100.
x_balance	For a numeric x variable, add balance to the x scale so that zero is in the centre. Defaults to FALSE.
x_expand	A vector of range expansion constants used to add padding to the x scale, as per the ggplot2 expand argument in ggplot2 scales functions.
x_labels	A function or vector to modify x scale labels, as per the ggplot2 labels argument in ggplot2 scales functions. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep x labels untransformed.
x_pretty_n	For a numeric x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 6.
x_title	X scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
x_title_wrap	Number of characters to wrap the x title to. Defaults to 50.
x_zero	For a numeric x variable, TRUE or FALSE of whether the minimum of the x scale is zero. Defaults to FALSE.
x_zero_line	For a numeric x variable, TRUE or FALSE of whether to add a zero reference line to the x scale. Defaults to TRUE if there are positive and negative values in x_var. Otherwise defaults to FALSE.
y_expand	A vector of range expansion constants used to add padding to the y scale, as per the ggplot2 expand argument in ggplot2 scales functions.
y_gridlines_minor	TRUE or FALSE of whether to add minor gridlines to the y scale. Defaults to FALSE.
y_labels	A function or vector to modify y scale labels, as per the ggplot2 labels argument in ggplot2 scales functions. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep y labels untransformed.
y_pretty_n	For a numeric y variable, the desired number of intervals on the y scale, as calculated by the pretty algorithm. Defaults to 5.
y_title	y scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
y_title_wrap	Number of characters to wrap the y title to. Defaults to 50.
col_labels	A function or vector to modify colour scale labels, as per the ggplot2 labels argument in ggplot2 scales functions. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep y labels untransformed.
col_legend_ncol	The number of columns in the legend.
col_legend_nrow	The number of rows in the legend.

col_na	TRUE or FALSE of whether to include col_var NA values. Defaults to TRUE.
col_rev	TRUE or FALSE of whether the colour scale is reversed. Defaults to FALSE. Defaults to FALSE.
col_title	Colour title string for the legend. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
col_title_wrap	Number of characters to wrap the colour title to. Defaults to 25.
caption	Caption title string.
caption_wrap	Number of characters to wrap the caption to. Defaults to 80.
font_family	Font family to use. Defaults to "".
font_size_title	Font size for the title text. Defaults to 11.
font_size_body	Font size for all text other than the title. Defaults to 10.
mobile	Whether the plot is to be displayed on a mobile device. Defaults to FALSE. If within a shiny app with the mobileDetect function, then use mobile = input\$mobile.

Value

A ggplot object.

Examples

```
library(simplevis)
library(palmerpenguins)

gg_density_col(penguins,
               x_var = body_mass_g,
               col_var = species)
```

gg_density_col_facet *Smoothed density ggplot that is coloured and faceted.*

Description

Smoothed density ggplot that is coloured and faceted.

Usage

```
gg_density_col_facet(data, x_var, col_var, facet_var,
                    density_bw = "nrd0", density_adjust = 1,
                    density_kernel = "gaussian", density_n = 512, density_trim = FALSE,
                    pal = NULL, pal_rev = FALSE, alpha = 0.1, size_line = 0.5,
                    title = NULL, title_wrap = 100, subtitle = NULL,
                    subtitle_wrap = 100, x_balance = FALSE, x_expand = NULL,
```



```
x_labels = NULL, x_pretty_n = 3, x_title = NULL,
x_title_wrap = 50, x_zero = FALSE, x_zero_line = NULL,
y_expand = NULL, y_gridlines_minor = FALSE,
y_labels = scales::number, y_pretty_n = 4, y_title = NULL,
y_title_wrap = 50, col_labels = NULL, col_legend_ncol = NULL,
col_legend_nrow = NULL, col_na = TRUE, col_rev = FALSE,
col_title = NULL, col_title_wrap = 25, facet_labels = NULL,
facet_na = TRUE, facet_ncol = NULL, facet_nrow = NULL,
facet_scales = "fixed", caption = NULL, caption_wrap = 80,
font_family = "", font_size_title = NULL, font_size_body = NULL)
```

Arguments

<code>data</code>	A tibble or dataframe. Required input.
<code>x_var</code>	Unquoted numeric variable to be on the x scale. Required input.
<code>col_var</code>	Unquoted categorical variable to colour density areas. Required input.
<code>facet_var</code>	Unquoted categorical variable to facet the data by. Required input.
<code>density_bw</code>	The <code>bw</code> argument of the <code>stats::density</code> function. Defaults to "nrd0".
<code>density_adjust</code>	The <code>adjust</code> argument of the <code>stats::density</code> function. Defaults to 1.
<code>density_kernel</code>	The <code>kernel</code> argument of the <code>stats::density</code> function. Defaults to "gaussian".
<code>density_n</code>	The <code>n</code> argument of the <code>stats::density</code> function. Defaults to 512.
<code>density_trim</code>	The <code>trim</code> argument of the <code>stats::density</code> function. Defaults to FALSE.
<code>pal</code>	Character vector of hex codes.
<code>pal_rev</code>	Reverses the palette. Defaults to FALSE.
<code>alpha</code>	The alpha of the fill. Defaults to 0.1.
<code>size_line</code>	The size of the outlines of density areas.
<code>title</code>	Title string. Defaults to NULL.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 100.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 100.
<code>x_balance</code>	For a numeric x variable, add balance to the x scale so that zero is in the centre. Defaults to FALSE.
<code>x_expand</code>	A vector of range expansion constants used to add padding to the x scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>x_labels</code>	A function or vector to modify x scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
<code>x_pretty_n</code>	For a numeric x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 3.
<code>x_title</code>	X scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>x_title_wrap</code>	Number of characters to wrap the x title to. Defaults to 50.

<code>x_zero</code>	For a numeric x variable, TRUE or FALSE of whether the minimum of the x scale is zero. Defaults to FALSE.
<code>x_zero_line</code>	For a numeric x variable, TRUE or FALSE of whether to add a zero reference line to the x scale. Defaults to TRUE if there are positive and negative values in <code>x_var</code> . Otherwise defaults to FALSE.
<code>y_expand</code>	A vector of range expansion constants used to add padding to the y scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>y_gridlines_minor</code>	TRUE or FALSE of whether to add minor gridlines to the y scale. Defaults to FALSE.
<code>y_labels</code>	A function or vector to modify y scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep y labels untransformed.
<code>y_pretty_n</code>	For a numeric y variable, the desired number of intervals on the y scale, as calculated by the pretty algorithm. Defaults to 4.
<code>y_title</code>	y scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>y_title_wrap</code>	Number of characters to wrap the y title to. Defaults to 50.
<code>col_labels</code>	A function or vector to modify colour scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep y labels untransformed.
<code>col_legend_ncol</code>	The number of columns in the legend.
<code>col_legend_nrow</code>	The number of rows in the legend.
<code>col_na</code>	TRUE or FALSE of whether to include <code>col_var</code> NA values. Defaults to TRUE.
<code>col_rev</code>	TRUE or FALSE of whether the colour scale is reversed. Defaults to FALSE. Defaults to FALSE.
<code>col_title</code>	Colour title string for the legend. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>col_title_wrap</code>	Number of characters to wrap the colour title to. Defaults to 25.
<code>facet_labels</code>	As per the <code>ggplot2</code> <code>labeller</code> argument within the <code>ggplot</code> <code>facet_wrap</code> function. If NULL, defaults to <code>ggplot2::as_labeller(stringr::str_to_sentence)</code> . Use <code>facet_labels = ggplot2::label_value</code> to turn off default sentence case transformation.
<code>facet_na</code>	TRUE or FALSE of whether to include <code>facet_var</code> NA values. Defaults to TRUE.
<code>facet_ncol</code>	The number of columns of faceted plots.
<code>facet_nrow</code>	The number of rows of faceted plots.
<code>facet_scales</code>	Whether <code>facet_scales</code> should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>caption</code>	Caption title string.
<code>caption_wrap</code>	Number of characters to wrap the caption to. Defaults to 80.
<code>font_family</code>	Font family to use. Defaults to "".
<code>font_size_title</code>	Font size for the title text. Defaults to 11.
<code>font_size_body</code>	Font size for all text other than the title. Defaults to 10.

Value

A ggplot object.

Examples

```
library(simplevis)
library(palmerpenguins)

gg_density_col_facet(penguins,
                    x_var = body_mass_g,
                    col_var = sex,
                    facet_var = species,
                    x_pretty_n = 2,
                    col_na = FALSE)
```

gg_density_facet	<i>Smoothed density ggplot that is faceted.</i>
------------------	---

Description

Smoothed density ggplot that is faceted, but not coloured.

Usage

```
gg_density_facet(data, x_var, facet_var, density_bw = "nrd0",
                 density_adjust = 1, density_kernel = "gaussian", density_n = 512,
                 density_trim = FALSE, pal = NULL, alpha = 0.1, size_line = 0.5,
                 title = NULL, title_wrap = 100, subtitle = NULL,
                 subtitle_wrap = 100, x_balance = FALSE, x_expand = NULL,
                 x_labels = NULL, x_pretty_n = 3, x_title = NULL,
                 x_title_wrap = 50, x_zero = FALSE, x_zero_line = NULL,
                 y_expand = NULL, y_gridlines_minor = FALSE,
                 y_labels = scales::number, y_pretty_n = 4, y_title = NULL,
                 y_title_wrap = 50, facet_labels = NULL, facet_na = TRUE,
                 facet_ncol = NULL, facet_nrow = NULL, facet_scales = "fixed",
                 caption = NULL, caption_wrap = 80, font_family = "",
                 font_size_title = NULL, font_size_body = NULL)
```

Arguments

data	A tibble or dataframe. Required input.
x_var	Unquoted numeric variable to be on the x scale. Required input.
facet_var	Unquoted categorical variable to facet the data by. Required input.
density_bw	The bw argument of the stats::density function. Defaults to "nrd0".
density_adjust	The adjust argument of the stats::density function. Defaults to 1.

<code>density_kernel</code>	The kernel argument of the <code>stats::density</code> function. Defaults to "gaussian".
<code>density_n</code>	The <code>n</code> argument of the <code>stats::density</code> function. Defaults to 512.
<code>density_trim</code>	The trim argument of the <code>stats::density</code> function. Defaults to FALSE.
<code>pal</code>	Character vector of hex codes.
<code>alpha</code>	The alpha of the fill. Defaults to 1.
<code>size_line</code>	The size of the outlines of density areas.
<code>title</code>	Title string. Defaults to NULL.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 100.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 100.
<code>x_balance</code>	For a numeric <code>x</code> variable, add balance to the <code>x</code> scale so that zero is in the centre. Defaults to FALSE.
<code>x_expand</code>	A vector of range expansion constants used to add padding to the <code>x</code> scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>x_labels</code>	A function or vector to modify <code>x</code> scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep <code>x</code> labels untransformed.
<code>x_pretty_n</code>	For a numeric <code>x</code> variable, the desired number of intervals on the <code>x</code> scale, as calculated by the pretty algorithm. Defaults to 3.
<code>x_title</code>	<code>X</code> scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>x_title_wrap</code>	Number of characters to wrap the <code>x</code> title to. Defaults to 50.
<code>x_zero</code>	For a numeric <code>x</code> variable, TRUE or FALSE of whether the minimum of the <code>x</code> scale is zero. Defaults to FALSE.
<code>x_zero_line</code>	For a numeric <code>x</code> variable, TRUE or FALSE of whether to add a zero reference line to the <code>x</code> scale. Defaults to TRUE if there are positive and negative values in <code>x_var</code> . Otherwise defaults to FALSE.
<code>y_expand</code>	A vector of range expansion constants used to add padding to the <code>y</code> scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>y_gridlines_minor</code>	TRUE or FALSE of whether to add minor gridlines to the <code>y</code> scale. Defaults to FALSE.
<code>y_labels</code>	A function or vector to modify <code>y</code> scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep <code>y</code> labels untransformed.
<code>y_pretty_n</code>	For a numeric <code>y</code> variable, the desired number of intervals on the <code>y</code> scale, as calculated by the pretty algorithm. Defaults to 4.
<code>y_title</code>	<code>y</code> scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>y_title_wrap</code>	Number of characters to wrap the <code>y</code> title to. Defaults to 50.

facet_labels	As per the ggplot2 labeller argument within the ggplot facet_wrap function. If NULL, defaults to ggplot2::as_labeller(stringr::str_to_sentence). Use facet_labels = ggplot2::label_value to turn off default sentence case transformation.
facet_na	TRUE or FALSE of whether to include facet_var NA values. Defaults to TRUE.
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.
caption_wrap	Number of characters to wrap the caption to. Defaults to 80.
font_family	Font family to use. Defaults to "".
font_size_title	Font size for the title text. Defaults to 11.
font_size_body	Font size for all text other than the title. Defaults to 10.

Value

A ggplot object.

Examples

```
library(simplevis)
library(palmerpenguins)

gg_density_facet(penguins,
                 x_var = body_mass_g,
                 facet_var = species,
                 x_pretty_n = 2)
```

gg_hbar

Horizontal bar ggplot.

Description

Horizontal bar ggplot that is not coloured and not faceted.

Usage

```
gg_hbar(data, x_var, y_var, text_var = NULL, pal = NULL,
        width = 0.75, alpha = 1, size_line = 0.5, title = NULL,
        title_wrap = 80, subtitle = NULL, subtitle_wrap = 80,
        x_balance = FALSE, x_expand = NULL, x_gridlines_minor = FALSE,
        x_labels = waiver(), x_na = TRUE, x_pretty_n = 5, x_title = NULL,
        x_title_wrap = 50, x_trans = "identity", x_zero = TRUE,
```

```
x_zero_line = NULL, y_balance = FALSE, y_expand = NULL,
y_labels = NULL, y_na = TRUE, y_pretty_n = 6, y_reorder = FALSE,
y_rev = FALSE, y_title = NULL, y_title_wrap = 50, y_zero = FALSE,
y_zero_line = NULL, caption = NULL, caption_wrap = 80,
font_family = "", font_size_title = NULL, font_size_body = NULL,
mobile = FALSE)
```

Arguments

<code>data</code>	A tibble or dataframe. Required input.
<code>x_var</code>	Unquoted numeric variable to be on the x scale. Required input.
<code>y_var</code>	Unquoted variable to be on the y scale (i.e. character, factor, logical, numeric, date or datetime). If numeric, date or datetime, variable values are bins that are mutually exclusive and equidistant. Required input.
<code>text_var</code>	Unquoted variable to be used as a customised tooltip in combination with <code>plotly::ggplotly(plot, tooltip = "text")</code> . Defaults to NULL.
<code>pal</code>	Character vector of hex codes.
<code>width</code>	Width of bars. Defaults to 0.75.
<code>alpha</code>	The alpha of the fill. Defaults to 1.
<code>size_line</code>	The size of the outlines of bars.
<code>title</code>	Title string. Defaults to NULL.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 80.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 80.
<code>x_balance</code>	For a numeric x variable, add balance to the x scale so that zero is in the centre of the x scale.
<code>x_expand</code>	A vector of range expansion constants used to add padding to the x scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>x_gridlines_minor</code>	TRUE or FALSE of whether to add minor gridlines to the x scale. Defaults to FALSE.
<code>x_labels</code>	A function or vector to modify x scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
<code>x_na</code>	TRUE or FALSE of whether to include <code>x_var</code> NA values. Defaults to TRUE.
<code>x_pretty_n</code>	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 5.
<code>x_title</code>	X scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>x_title_wrap</code>	Number of characters to wrap the x title to. Defaults to 50.
<code>x_trans</code>	For a numeric x variable, a string specifying a transformation for the x scale, such as "log10" or "sqrt". Defaults to "identity".

x_zero	For a numeric x variable, TRUE or FALSE of whether the minimum of the x scale is zero. Defaults to TRUE.
x_zero_line	For a numeric x variable, TRUE or FALSE whether to add a zero reference line to the x scale. Defaults to TRUE if there are positive and negative values in x_var. Otherwise defaults to FALSE.
y_balance	For a numeric y variable, add balance to the y scale so that zero is in the centre. Defaults to FALSE.
y_expand	A vector of range expansion constants used to add padding to the y scale, as per the ggplot2 expand argument in ggplot2 scales functions.
y_labels	A function or vector to modify y scale labels, as per the ggplot2 labels argument in ggplot2 scales functions. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep y labels untransformed.
y_na	TRUE or FALSE of whether to include y_var NA values. Defaults to TRUE.
y_pretty_n	For a numeric or date y variable, the desired number of intervals on the y scale, as calculated by the pretty algorithm. Defaults to 6.
y_reorder	For a categorical y variable, TRUE or FALSE of whether the y variable variable is to be reordered by the y variable. Defaults to FALSE.
y_rev	For a categorical variable, TRUE or FALSE of whether the y variable variable is reversed. Defaults to FALSE.
y_title	y scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
y_title_wrap	Number of characters to wrap the y title to. Defaults to 50.
y_zero	For a numeric y variable, TRUE or FALSE of whether the minimum of the y scale is zero. Defaults to FALSE.
y_zero_line	For a numeric y variable, TRUE or FALSE of whether to add a zero reference line to the y scale. Defaults to TRUE if there are positive and negative values in y_var. Otherwise defaults to FALSE.
caption	Caption title string.
caption_wrap	Number of characters to wrap the caption to. Defaults to 80.
font_family	Font family to use. Defaults to "".
font_size_title	Font size for the title text. Defaults to 11.
font_size_body	Font size for all text other than the title. Defaults to 10.
mobile	Whether the plot is to be displayed on a mobile device. Defaults to FALSE. If within a shiny app with the mobileDetect function, then use mobile = input\$sisMobile.

Value

A ggplot object.

Examples

```
library(dplyr)
library(simplevis)
library(palmerpenguins)

plot_data <- penguins %>%
  group_by(species) %>%
  summarise(body_mass_g = mean(body_mass_g, na.rm = TRUE))

gg_hbar(plot_data,
        x_var = body_mass_g,
        y_var = species)
```

`gg_hbar_col`*Horizontal bar ggplot that is coloured.*

Description

Horizontal bar ggplot that is coloured, but not faceted.

Usage

```
gg_hbar_col(data, x_var, y_var, col_var, text_var = NULL,
            position = NULL, pal = NULL, pal_rev = FALSE, width = 0.75,
            alpha = 1, size_line = 0.5, title = NULL, title_wrap = 80,
            subtitle = NULL, subtitle_wrap = 80, x_balance = FALSE,
            x_expand = NULL, x_gridlines_minor = FALSE, x_labels = waiver(),
            x_na = TRUE, x_pretty_n = 5, x_title = NULL, x_title_wrap = 50,
            x_trans = "identity", x_zero = TRUE, x_zero_line = NULL,
            y_balance = FALSE, y_expand = NULL, y_labels = NULL, y_na = TRUE,
            y_pretty_n = 6, y_reorder = FALSE, y_rev = FALSE, y_title = NULL,
            y_title_wrap = 50, y_zero = FALSE, y_zero_line = NULL,
            col_labels = NULL, col_legend_ncol = NULL, col_legend_nrow = NULL,
            col_na = TRUE, col_rev = FALSE, col_title = NULL,
            col_title_wrap = 25, caption = NULL, caption_wrap = 80,
            font_family = "", font_size_title = NULL, font_size_body = NULL,
            mobile = FALSE)
```

Arguments

<code>data</code>	A tibble or dataframe. Required input.
<code>x_var</code>	Unquoted numeric variable to be on the x scale. Required input.
<code>y_var</code>	Unquoted variable to be on the y scale (i.e. character, factor, logical, numeric, date or datetime). If numeric, date or datetime, variable values are bins that are mutually exclusive and equidistant. Required input.
<code>col_var</code>	Unquoted categorical variable to colour the bars. Required input.

text_var	Unquoted variable to be used as a customised tooltip in combination with <code>plotly::ggplotly(plot, tooltip = "text")</code> . Defaults to NULL.
position	Whether bars are positioned by "dodge" or "stack". Defaults to "dodge".
pal	Character vector of hex codes.
pal_rev	Reverses the palette. Defaults to FALSE.
width	Width of bars. Defaults to 0.75.
alpha	The alpha of the fill. Defaults to 1.
size_line	The size of the outlines of bars.
title	Title string. Defaults to NULL.
title_wrap	Number of characters to wrap the title to. Defaults to 80.
subtitle	Subtitle string.
subtitle_wrap	Number of characters to wrap the subtitle to. Defaults to 80.
x_balance	For a numeric x variable, add balance to the x scale so that zero is in the centre of the x scale.
x_expand	A vector of range expansion constants used to add padding to the x scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
x_gridlines_minor	TRUE or FALSE of whether to add minor gridlines to the x scale. Defaults to FALSE.
x_labels	A function or vector to modify x scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
x_na	TRUE or FALSE of whether to include x_var NA values. Defaults to TRUE.
x_pretty_n	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 3.
x_title	X scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
x_title_wrap	Number of characters to wrap the x title to. Defaults to 50.
x_trans	For a numeric x variable, a string specifying a transformation for the x scale, such as "log10" or "sqrt". Defaults to "identity".
x_zero	For a numeric x variable, TRUE or FALSE of whether the minimum of the x scale is zero. Defaults to TRUE.
x_zero_line	For a numeric x variable, TRUE or FALSE whether to add a zero reference line to the x scale. Defaults to TRUE if there are positive and negative values in x_var. Otherwise defaults to FALSE.
y_balance	For a numeric y variable, add balance to the y scale so that zero is in the centre. Defaults to FALSE.
y_expand	A vector of range expansion constants used to add padding to the y scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
y_labels	A function or vector to modify y scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep y labels untransformed.

<code>y_na</code>	TRUE or FALSE of whether to include <code>y_var</code> NA values. Defaults to TRUE.
<code>y_pretty_n</code>	For a numeric or date <code>y</code> variable, the desired number of intervals on the <code>y</code> scale, as calculated by the pretty algorithm. Defaults to 4.
<code>y_reorder</code>	For a categorical <code>y</code> variable, TRUE or FALSE of whether the <code>y</code> variable variable is to be reordered by the <code>y</code> variable. Defaults to FALSE.
<code>y_rev</code>	For a categorical variable, TRUE or FALSE of whether the <code>y</code> variable variable is reversed. Defaults to FALSE.
<code>y_title</code>	<code>y</code> scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>y_title_wrap</code>	Number of characters to wrap the <code>y</code> title to. Defaults to 50.
<code>y_zero</code>	For a numeric <code>y</code> variable, TRUE or FALSE of whether the minimum of the <code>y</code> scale is zero. Defaults to FALSE.
<code>y_zero_line</code>	For a numeric <code>y</code> variable, TRUE or FALSE of whether to add a zero reference line to the <code>y</code> scale. Defaults to TRUE if there are positive and negative values in <code>y_var</code> . Otherwise defaults to FALSE.
<code>col_labels</code>	A function or vector to modify colour scale labels, as per the <code>ggplot2</code> labels argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep <code>y</code> labels untransformed.
<code>col_legend_ncol</code>	The number of columns in the legend.
<code>col_legend_nrow</code>	The number of rows in the legend.
<code>col_na</code>	TRUE or FALSE of whether to include <code>col_var</code> NA values. Defaults to TRUE.
<code>col_rev</code>	TRUE or FALSE of whether the colour scale is reversed. Defaults to FALSE. Defaults to FALSE.
<code>col_title</code>	Colour title string for the legend. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>col_title_wrap</code>	Number of characters to wrap the colour title to. Defaults to 25.
<code>caption</code>	Caption title string.
<code>caption_wrap</code>	Number of characters to wrap the caption to. Defaults to 80.
<code>font_family</code>	Font family to use. Defaults to "".
<code>font_size_title</code>	Font size for the title text. Defaults to 11.
<code>font_size_body</code>	Font size for all text other than the title. Defaults to 10.
<code>mobile</code>	Whether the plot is to be displayed on a mobile device. Defaults to FALSE. If within a shiny app with the <code>mobileDetect</code> function, then use <code>mobile = input\$isMobile</code> .

Value

A `ggplot` object.

Examples

```

library(dplyr)
library(simplevis)
library(palmerpenguins)

plot_data <- penguins %>%
  group_by(species, sex) %>%
  summarise(body_mass_g = mean(body_mass_g, na.rm = TRUE))

gg_hbar_col(plot_data,
            x_var = body_mass_g,
            y_var = species,
            col_var = sex)

gg_hbar_col(plot_data,
            x_var = body_mass_g,
            y_var = species,
            col_var = sex,
            position = "stack")

```

`gg_hbar_col_facet` *Horizontal bar ggplot that is faceted.*

Description

Horizontal bar ggplot that is faceted, but not coloured.

Usage

```

gg_hbar_col_facet(data, x_var, y_var, col_var, facet_var,
  text_var = NULL, position = NULL, pal = NULL, pal_rev = FALSE,
  width = 0.75, alpha = 1, size_line = 0.5, title = NULL,
  title_wrap = 80, subtitle = NULL, subtitle_wrap = 80,
  x_balance = FALSE, x_expand = NULL, x_gridlines_minor = FALSE,
  x_labels = waiver(), x_na = TRUE, x_pretty_n = 3, x_title = NULL,
  x_title_wrap = 50, x_trans = "identity", x_zero = TRUE,
  x_zero_line = NULL, y_balance = FALSE, y_expand = NULL,
  y_labels = NULL, y_na = TRUE, y_pretty_n = 4, y_rev = FALSE,
  y_title = NULL, y_title_wrap = 50, y_zero = FALSE,
  y_zero_line = NULL, col_labels = NULL, col_legend_ncol = NULL,
  col_legend_nrow = NULL, col_na = TRUE, col_rev = FALSE,
  col_title = NULL, col_title_wrap = 25, facet_labels = NULL,
  facet_na = TRUE, facet_ncol = NULL, facet_nrow = NULL,
  facet_scales = "fixed", caption = NULL, caption_wrap = 80,
  font_family = "", font_size_title = NULL, font_size_body = NULL)

```

Arguments

<code>data</code>	A tibble or dataframe. Required input.
<code>x_var</code>	Unquoted numeric variable to be on the x scale. Required input.
<code>y_var</code>	Unquoted variable to be on the y scale (i.e. character, factor, logical, numeric, date or datetime). If numeric, date or datetime, variable values are bins that are mutually exclusive and equidistant. Required input.
<code>col_var</code>	Unquoted categorical variable to colour the bars. Required input.
<code>facet_var</code>	Unquoted categorical variable to facet the data by. Required input.
<code>text_var</code>	Unquoted variable to be used as a customised tooltip in combination with <code>plotly::ggplotly(plot, tooltip = "text")</code> . Defaults to NULL.
<code>position</code>	Whether bars are positioned by "dodge" or "stack". Defaults to "dodge".
<code>pal</code>	Character vector of hex codes.
<code>pal_rev</code>	TRUE or FALSE of whether to reverse the pal.
<code>width</code>	Width of bars. Defaults to 0.75.
<code>alpha</code>	The alpha of the fill. Defaults to 1.
<code>size_line</code>	The size of the outlines of bars.
<code>title</code>	Title string. Defaults to NULL.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 80.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 80.
<code>x_balance</code>	For a numeric x variable, add balance to the x scale so that zero is in the centre of the x scale.
<code>x_expand</code>	A vector of range expansion constants used to add padding to the x scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>x_gridlines_minor</code>	TRUE or FALSE of whether to add minor gridlines to the x scale. Defaults to FALSE.
<code>x_labels</code>	A function or vector to modify x scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
<code>x_na</code>	TRUE or FALSE of whether to include <code>x_var</code> NA values. Defaults to TRUE.
<code>x_pretty_n</code>	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 5.
<code>x_title</code>	X scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>x_title_wrap</code>	Number of characters to wrap the x title to. Defaults to 50.
<code>x_trans</code>	For a numeric x variable, a string specifying a transformation for the x scale, such as "log10" or "sqrt". Defaults to "identity".
<code>x_zero</code>	For a numeric x variable, TRUE or FALSE of whether the minimum of the x scale is zero. Defaults to TRUE.

x_zero_line	For a numeric x variable, TRUE or FALSE whether to add a zero reference line to the x scale. Defaults to TRUE if there are positive and negative values in x_var. Otherwise defaults to FALSE.
y_balance	For a numeric y variable, add balance to the y scale so that zero is in the centre. Defaults to FALSE.
y_expand	A vector of range expansion constants used to add padding to the y scale, as per the ggplot2 expand argument in ggplot2 scales functions.
y_labels	A function or vector to modify y scale labels, as per the ggplot2 labels argument in ggplot2 scales functions. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep y labels untransformed.
y_na	TRUE or FALSE of whether to include y_var NA values. Defaults to TRUE.
y_pretty_n	For a numeric or date y variable, the desired number of intervals on the y scale, as calculated by the pretty algorithm. Defaults to 6.
y_rev	For a categorical variable, TRUE or FALSE of whether the y variable variable is reversed. Defaults to FALSE.
y_title	y scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
y_title_wrap	Number of characters to wrap the y title to. Defaults to 50.
y_zero	For a numeric y variable, TRUE or FALSE of whether the minimum of the y scale is zero. Defaults to FALSE.
y_zero_line	For a numeric y variable, TRUE or FALSE of whether to add a zero reference line to the y scale. Defaults to TRUE if there are positive and negative values in y_var. Otherwise defaults to FALSE.
col_labels	A function or vector to modify colour scale labels, as per the ggplot2 labels argument in ggplot2 scales functions. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep y labels untransformed.
col_legend_ncol	The number of columns in the legend.
col_legend_nrow	The number of rows in the legend.
col_na	TRUE or FALSE of whether to include col_var NA values. Defaults to TRUE.
col_rev	TRUE or FALSE of whether the colour scale is reversed. Defaults to FALSE. Defaults to FALSE.
col_title	Colour title string for the legend. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
col_title_wrap	Number of characters to wrap the colour title to. Defaults to 25.
facet_labels	As per the ggplot2 labeller argument within the ggplot facet_wrap function. If NULL, defaults to ggplot2::as_labeller(stringr::str_to_sentence). Use facet_labels = ggplot2::label_value to turn off default sentence case transformation.
facet_na	TRUE or FALSE of whether to include facet_var NA values. Defaults to TRUE.
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.
caption_wrap	Number of characters to wrap the caption to. Defaults to 80.
font_family	Font family to use. Defaults to "".
font_size_title	Font size for the title text. Defaults to 11.
font_size_body	Font size for all text other than the title. Defaults to 10.

Value

A ggplot object.

Examples

```
library(dplyr)
library(simplevis)
library(palmerpenguins)

plot_data <- penguins %>%
  group_by(species, sex, island) %>%
  summarise(body_mass_g = mean(body_mass_g, na.rm = TRUE))

gg_hbar_col_facet(plot_data,
  x_var = body_mass_g,
  y_var = species,
  col_var = island,
  facet_var = sex,
  facet_na = FALSE)
```

gg_hbar_facet

Horizontal bar ggplot that is faceted.

Description

Horizontal bar ggplot that is faceted, but not coloured.

Usage

```
gg_hbar_facet(data, x_var, y_var, facet_var, text_var = NULL,
  pal = NULL, width = 0.75, alpha = 1, size_line = 0.5,
  title = NULL, title_wrap = 80, subtitle = NULL,
  subtitle_wrap = 80, x_balance = FALSE, x_expand = NULL,
  x_gridlines_minor = FALSE, x_labels = waiver(), x_na = TRUE,
  x_pretty_n = 3, x_title = NULL, x_title_wrap = 50,
  x_trans = "identity", x_zero = TRUE, x_zero_line = NULL,
```

```

y_balance = FALSE, y_expand = NULL, y_labels = NULL, y_na = TRUE,
y_pretty_n = 4, y_rev = FALSE, y_title = NULL, y_title_wrap = 50,
y_zero = FALSE, y_zero_line = NULL, facet_labels = NULL,
facet_na = TRUE, facet_ncol = NULL, facet_nrow = NULL,
facet_scales = "fixed", caption = NULL, caption_wrap = 80,
font_family = "", font_size_title = NULL, font_size_body = NULL)

```

Arguments

<code>data</code>	A tibble or dataframe. Required input.
<code>x_var</code>	Unquoted numeric variable to be on the x scale. Required input.
<code>y_var</code>	Unquoted variable to be on the y scale (i.e. character, factor, logical, numeric, date or datetime). If numeric, date or datetime, variable values are bins that are mutually exclusive and equidistant. Required input.
<code>facet_var</code>	Unquoted categorical variable to facet the data by. Required input.
<code>text_var</code>	Unquoted variable to be used as a customised tooltip in combination with <code>plotly::ggplotly(plot, tooltip = "text")</code> . Defaults to <code>NULL</code> .
<code>pal</code>	Character vector of hex codes.
<code>width</code>	Width of bars. Defaults to 0.75.
<code>alpha</code>	The alpha of the fill. Defaults to 1.
<code>size_line</code>	The size of the outlines of bars.
<code>title</code>	Title string. Defaults to <code>NULL</code> .
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 80.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 80.
<code>x_balance</code>	For a numeric x variable, add balance to the x scale so that zero is in the centre of the x scale.
<code>x_expand</code>	A vector of range expansion constants used to add padding to the x scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>x_gridlines_minor</code>	TRUE or FALSE of whether to add minor gridlines to the x scale. Defaults to FALSE.
<code>x_labels</code>	A function or vector to modify x scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If <code>NULL</code> , categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
<code>x_na</code>	TRUE or FALSE of whether to include <code>x_var</code> NA values. Defaults to TRUE.
<code>x_pretty_n</code>	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 3.
<code>x_title</code>	X scale title string. Defaults to <code>NULL</code> , which converts to sentence case with spaces. Use "" if you would like no title.
<code>x_title_wrap</code>	Number of characters to wrap the x title to. Defaults to 50.
<code>x_trans</code>	For a numeric x variable, a string specifying a transformation for the x scale, such as "log10" or "sqrt". Defaults to "identity".

<code>x_zero</code>	For a numeric x variable, TRUE or FALSE of whether the minimum of the x scale is zero. Defaults to TRUE.
<code>x_zero_line</code>	For a numeric x variable, TRUE or FALSE whether to add a zero reference line to the x scale. Defaults to TRUE if there are positive and negative values in <code>x_var</code> . Otherwise defaults to FALSE.
<code>y_balance</code>	For a numeric y variable, add balance to the y scale so that zero is in the centre. Defaults to FALSE.
<code>y_expand</code>	A vector of range expansion constants used to add padding to the y scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>y_labels</code>	A function or vector to modify y scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep y labels untransformed.
<code>y_na</code>	TRUE or FALSE of whether to include <code>y_var</code> NA values. Defaults to TRUE.
<code>y_pretty_n</code>	For a numeric or date y variable, the desired number of intervals on the y scale, as calculated by the pretty algorithm. Defaults to 4.
<code>y_rev</code>	For a categorical variable, TRUE or FALSE of whether the y variable variable is reversed. Defaults to FALSE.
<code>y_title</code>	y scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>y_title_wrap</code>	Number of characters to wrap the y title to. Defaults to 50.
<code>y_zero</code>	For a numeric y variable, TRUE or FALSE of whether the minimum of the y scale is zero. Defaults to FALSE.
<code>y_zero_line</code>	For a numeric y variable, TRUE or FALSE of whether to add a zero reference line to the y scale. Defaults to TRUE if there are positive and negative values in <code>y_var</code> . Otherwise defaults to FALSE.
<code>facet_labels</code>	As per the <code>ggplot2</code> <code>labeller</code> argument within the <code>ggplot</code> <code>facet_wrap</code> function. If NULL, defaults to <code>ggplot2::as_labeller(stringr::str_to_sentence)</code> . Use <code>facet_labels = ggplot2::label_value</code> to turn off default sentence case transformation.
<code>facet_na</code>	TRUE or FALSE of whether to include <code>facet_var</code> NA values. Defaults to TRUE.
<code>facet_ncol</code>	The number of columns of faceted plots.
<code>facet_nrow</code>	The number of rows of faceted plots.
<code>facet_scales</code>	Whether <code>facet_scales</code> should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>caption</code>	Caption title string.
<code>caption_wrap</code>	Number of characters to wrap the caption to. Defaults to 80.
<code>font_family</code>	Font family to use. Defaults to "".
<code>font_size_title</code>	Font size for the title text. Defaults to 11.
<code>font_size_body</code>	Font size for all text other than the title. Defaults to 10.

Value

A `ggplot` object.

Examples

```

library(dplyr)
library(simplevis)
library(palmerpenguins)

plot_data <- penguins %>%
  group_by(species, sex) %>%
  summarise(body_mass_g = mean(body_mass_g, na.rm = TRUE))

gg_hbar_facet(plot_data,
              x_var = body_mass_g,
              y_var = sex,
              facet_var = species)

```

gg_line

*Line ggplot.***Description**

Line ggplot that is not coloured and not faceted.

Usage

```

gg_line(data, x_var, y_var, text_var = NULL, pal = NULL,
        size_point = 1, size_line = 0.5, title = NULL, title_wrap = 100,
        subtitle = NULL, subtitle_wrap = 100, x_balance = FALSE,
        x_expand = NULL, x_labels = NULL, x_na = TRUE, x_pretty_n = 6,
        x_rev = FALSE, x_title = NULL, x_title_wrap = 50, x_zero = FALSE,
        x_zero_line = NULL, y_balance = FALSE, y_expand = NULL,
        y_gridlines_minor = FALSE, y_labels = waiver(), y_na = TRUE,
        y_pretty_n = 5, y_title = NULL, y_title_wrap = 50,
        y_trans = "identity", y_zero = FALSE, y_zero_line = NULL,
        caption = NULL, caption_wrap = 80, font_family = "",
        font_size_title = NULL, font_size_body = NULL, mobile = FALSE)

```

Arguments

data	A tibble or dataframe. Required input.
x_var	Unquoted variable to be on the x scale (i.e. character, factor, logical, numeric, date or datetime). Required input.
y_var	Unquoted numeric variable to be on the y scale. Required input.
text_var	Unquoted variable to be used as a customised tooltip in combination with <code>plotly::ggplotly(plot, tooltip = "text")</code> . Defaults to NULL.
pal	Character vector of hex codes.
size_point	Size of points. Defaults to 1.

<code>size_line</code>	Size of lines. Defaults to 0.5.
<code>title</code>	Title string. Defaults to NULL.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 100. Not applicable where <code>mobile</code> equals TRUE.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 100. Not applicable where <code>mobile</code> equals TRUE.
<code>x_balance</code>	For a numeric x variable, add balance to the x scale so that zero is in the centre. Defaults to FALSE.
<code>x_expand</code>	A vector of range expansion constants used to add padding to the x scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>x_labels</code>	A function or vector to modify x scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
<code>x_na</code>	TRUE or FALSE of whether to include <code>x_var</code> NA values. Defaults to TRUE.
<code>x_pretty_n</code>	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 6.
<code>x_rev</code>	For a categorical x variable, TRUE or FALSE of whether the x variable variable is reversed. Defaults to FALSE.
<code>x_title</code>	X scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>x_title_wrap</code>	Number of characters to wrap the x title to. Defaults to 50.
<code>x_zero</code>	For a numeric x variable, TRUE or FALSE of whether the minimum of the x scale is zero. Defaults to FALSE.
<code>x_zero_line</code>	For a numeric x variable, TRUE or FALSE of whether to add a zero reference line to the x scale. Defaults to TRUE if there are positive and negative values in <code>x_var</code> . Otherwise defaults to FALSE.
<code>y_balance</code>	For a numeric y variable, add balance to the y scale so that zero is in the centre of the y scale.
<code>y_expand</code>	A vector of range expansion constants used to add padding to the y scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>y_gridlines_minor</code>	TRUE or FALSE of whether to add minor gridlines to the y scale. Defaults to FALSE.
<code>y_labels</code>	A function or vector to modify y scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep y labels untransformed.
<code>y_na</code>	TRUE or FALSE of whether to include <code>y_var</code> NA values. Defaults to TRUE.
<code>y_pretty_n</code>	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 5.
<code>y_title</code>	y scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.

y_title_wrap	Number of characters to wrap the y title to. Defaults to 50.
y_trans	For a numeric y variable, a string specifying a transformation for the y scale, such as "log10" or "sqrt". Defaults to "identity".
y_zero	For a numeric y variable, TRUE or FALSE of whether the minimum of the y scale is zero. Defaults to TRUE.
y_zero_line	For a numeric y variable, TRUE or FALSE whether to add a zero reference line to the y scale. Defaults to TRUE if there are positive and negative values in y_var. Otherwise defaults to FALSE.
caption	Caption title string.
caption_wrap	Number of characters to wrap the caption to. Defaults to 80. Not applicable where mobile equals TRUE.
font_family	Font family to use. Defaults to "".
font_size_title	Font size for the title text. Defaults to 11.
font_size_body	Font size for all text other than the title. Defaults to 10.
mobile	Whether the plot is to be displayed on a mobile device. Defaults to FALSE. If within a shiny app with the mobileDetect function, then use mobile = input\$mobile.

Value

A ggplot object.

Examples

```
library(dplyr)
library(simplevis)
library(palmerpenguins)

plot_data <- penguins %>%
  group_by(year) %>%
  summarise(body_mass_g = mean(body_mass_g, na.rm = TRUE)) %>%
  mutate(year = as.character(year))

gg_line(plot_data,
        x_var = year,
        y_var = body_mass_g)
```

gg_line_col

Line ggplot that is coloured.

Description

Line ggplot that is coloured, but not faceted.

Usage

```
gg_line_col(data, x_var, y_var, col_var, text_var = NULL, pal = NULL,
  pal_rev = FALSE, size_point = 1, size_line = 0.5, title = NULL,
  title_wrap = 100, subtitle = NULL, subtitle_wrap = 100,
  x_balance = FALSE, x_expand = NULL, x_labels = NULL, x_na = TRUE,
  x_pretty_n = 6, x_rev = FALSE, x_title = NULL, x_title_wrap = 50,
  x_zero = FALSE, x_zero_line = NULL, y_balance = FALSE,
  y_expand = NULL, y_gridlines_minor = FALSE, y_labels = waiver(),
  y_na = TRUE, y_pretty_n = 5, y_title = NULL, y_title_wrap = 50,
  y_trans = "identity", y_zero = FALSE, y_zero_line = NULL,
  col_labels = NULL, col_legend_ncol = NULL, col_legend_nrow = NULL,
  col_na = TRUE, col_title = NULL, col_title_wrap = 25,
  caption = NULL, caption_wrap = 80, font_family = "",
  font_size_title = NULL, font_size_body = NULL, mobile = FALSE)
```

Arguments

<code>data</code>	A tibble or dataframe. Required input.
<code>x_var</code>	Unquoted variable to be on the x scale (i.e. character, factor, logical, numeric, date or datetime). Required input.
<code>y_var</code>	Unquoted numeric variable to be on the y scale. Required input.
<code>col_var</code>	Unquoted categorical variable for lines and points to be coloured by. Required input.
<code>text_var</code>	Unquoted variable to be used as a customised tooltip in combination with <code>plotly::ggplotly(plot, tooltip = "text")</code> . Defaults to <code>NULL</code> .
<code>pal</code>	Character vector of hex codes.
<code>pal_rev</code>	Reverses the palette. Defaults to <code>FALSE</code> .
<code>size_point</code>	Size of points. Defaults to 1.
<code>size_line</code>	Size of lines. Defaults to 0.5.
<code>title</code>	Title string. Defaults to <code>NULL</code> .
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 100. Not applicable where <code>mobile</code> equals <code>TRUE</code> .
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 100. Not applicable where <code>mobile</code> equals <code>TRUE</code> .
<code>x_balance</code>	For a numeric x variable, add balance to the x scale so that zero is in the centre. Defaults to <code>FALSE</code> .
<code>x_expand</code>	A vector of range expansion constants used to add padding to the x scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>x_labels</code>	A function or vector to modify x scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If <code>NULL</code> , categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
<code>x_na</code>	<code>TRUE</code> or <code>FALSE</code> of whether to include <code>x_var</code> NA values. Defaults to <code>TRUE</code> .

x_pretty_n	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 6.
x_rev	For a categorical x variable, TRUE or FALSE of whether the x variable variable is reversed. Defaults to FALSE.
x_title	X scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
x_title_wrap	Number of characters to wrap the x title to. Defaults to 50.
x_zero	For a numeric x variable, TRUE or FALSE of whether the minimum of the x scale is zero. Defaults to FALSE.
x_zero_line	For a numeric x variable, TRUE or FALSE of whether to add a zero reference line to the x scale. Defaults to TRUE if there are positive and negative values in x_var. Otherwise defaults to FALSE.
y_balance	For a numeric y variable, add balance to the y scale so that zero is in the centre of the y scale.
y_expand	A vector of range expansion constants used to add padding to the y scale, as per the ggplot2 expand argument in ggplot2 scales functions.
y_gridlines_minor	TRUE or FALSE of whether to add minor gridlines to the y scale. Defaults to FALSE.
y_labels	A function or vector to modify y scale labels, as per the ggplot2 labels argument in ggplot2 scales functions. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep y labels untransformed.
y_na	TRUE or FALSE of whether to include y_var NA values. Defaults to TRUE.
y_pretty_n	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 5.
y_title	y scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
y_title_wrap	Number of characters to wrap the y title to. Defaults to 50.
y_trans	For a numeric y variable, a string specifying a transformation for the y scale, such as "log10" or "sqrt". Defaults to "identity".
y_zero	For a numeric y variable, TRUE or FALSE of whether the minimum of the y scale is zero. Defaults to TRUE.
y_zero_line	For a numeric y variable, TRUE or FALSE whether to add a zero reference line to the y scale. Defaults to TRUE if there are positive and negative values in y_var. Otherwise defaults to FALSE.
col_labels	A function or vector to modify colour scale labels, as per the ggplot2 labels argument in ggplot2 scales functions. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep y labels untransformed.
col_legend_ncol	The number of columns in the legend.
col_legend_nrow	The number of rows in the legend.
col_na	TRUE or FALSE of whether to include col_var NA values. Defaults to TRUE.

col_title	Colour title string for the legend. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
col_title_wrap	Number of characters to wrap the colour title to. Defaults to 25. Not applicable where mobile equals TRUE.
caption	Caption title string.
caption_wrap	Number of characters to wrap the caption to. Defaults to 80. Not applicable where mobile equals TRUE.
font_family	Font family to use. Defaults to "".
font_size_title	Font size for the title text. Defaults to 11.
font_size_body	Font size for all text other than the title. Defaults to 10.
mobile	Whether the plot is to be displayed on a mobile device. Defaults to FALSE. If within a shiny app with the mobileDetect function, then use mobile = input\$mobile.

Value

A ggplot object.

Examples

```
library(dplyr)
library(simplevis)
library(palmerpenguins)

plot_data <- penguins %>%
  group_by(year, species) %>%
  summarise(body_mass_g = mean(body_mass_g, na.rm = TRUE)) %>%
  mutate(year = as.character(year))

gg_line_col(plot_data,
            x_var = year,
            y_var = body_mass_g,
            col_var = species)
```

gg_line_col_facet *Line ggplot that is coloured and faceted.*

Description

Line ggplot that is coloured and faceted.

Usage

```
gg_line_col_facet(data, x_var, y_var, col_var, facet_var,
  text_var = NULL, pal = NULL, pal_rev = FALSE, size_point = 1,
  size_line = 0.5, title = NULL, title_wrap = 100, subtitle = NULL,
  subtitle_wrap = 100, x_balance = FALSE, x_expand = NULL,
  x_labels = NULL, x_na = TRUE, x_pretty_n = 3, x_rev = FALSE,
  x_title = NULL, x_title_wrap = 50, x_zero = FALSE,
  x_zero_line = NULL, y_balance = FALSE, y_expand = NULL,
  y_gridlines_minor = FALSE, y_labels = waiver(), y_na = TRUE,
  y_pretty_n = 4, y_trans = "identity", y_title = NULL,
  y_title_wrap = 50, y_zero = FALSE, y_zero_line = NULL,
  col_labels = NULL, col_legend_ncol = NULL, col_legend_nrow = NULL,
  col_na = TRUE, col_title = NULL, col_title_wrap = 25,
  facet_labels = NULL, facet_na = TRUE, facet_ncol = NULL,
  facet_nrow = NULL, facet_scales = "fixed", caption = NULL,
  caption_wrap = 80, font_family = "", font_size_title = NULL,
  font_size_body = NULL)
```

Arguments

data	A tibble or dataframe. Required input.
x_var	Unquoted variable to be on the x scale (i.e. character, factor, logical, numeric, date or datetime). Required input.
y_var	Unquoted numeric variable to be on the y scale. Required input.
col_var	Unquoted categorical variable for lines and points to be coloured by. Required input.
facet_var	Unquoted categorical variable to facet the data by. Required input.
text_var	Unquoted variable to be used as a customised tooltip in combination with <code>plotly::ggplotly(plot, tooltip = "text")</code> . Defaults to NULL.
pal	Character vector of hex codes.
pal_rev	Reverses the palette. Defaults to FALSE.
size_point	Size of points. Defaults to 1.
size_line	Size of lines. Defaults to 0.5.
title	Title string. Defaults to NULL.
title_wrap	Number of characters to wrap the title to. Defaults to 100.
subtitle	Subtitle string.
subtitle_wrap	Number of characters to wrap the subtitle to. Defaults to 100.
x_balance	For a numeric x variable, add balance to the x scale so that zero is in the centre. Defaults to FALSE.
x_expand	A vector of range expansion constants used to add padding to the x scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
x_labels	A function or vector to modify x scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.

<code>x_na</code>	TRUE or FALSE of whether to include <code>x_var</code> NA values. Defaults to TRUE.
<code>x_pretty_n</code>	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 3.
<code>x_rev</code>	For a categorical x variable, TRUE or FALSE of whether the x variable variable is reversed. Defaults to FALSE.
<code>x_title</code>	X scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>x_title_wrap</code>	Number of characters to wrap the x title to. Defaults to 50.
<code>x_zero</code>	For a numeric x variable, TRUE or FALSE of whether the minimum of the x scale is zero. Defaults to FALSE.
<code>x_zero_line</code>	For a numeric x variable, TRUE or FALSE of whether to add a zero reference line to the x scale. Defaults to TRUE if there are positive and negative values in <code>x_var</code> . Otherwise defaults to FALSE.
<code>y_balance</code>	For a numeric y variable, add balance to the y scale so that zero is in the centre of the y scale.
<code>y_expand</code>	A vector of range expansion constants used to add padding to the y scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>y_gridlines_minor</code>	TRUE or FALSE of whether to add minor gridlines to the y scale. Defaults to FALSE.
<code>y_labels</code>	A function or vector to modify y scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep y labels untransformed.
<code>y_na</code>	TRUE or FALSE of whether to include <code>y_var</code> NA values. Defaults to TRUE.
<code>y_pretty_n</code>	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 4.
<code>y_trans</code>	For a numeric y variable, a string specifying a transformation for the y scale, such as "log10" or "sqrt". Defaults to "identity".
<code>y_title</code>	y scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>y_title_wrap</code>	Number of characters to wrap the y title to. Defaults to 50.
<code>y_zero</code>	For a numeric y variable, TRUE or FALSE of whether the minimum of the y scale is zero. Defaults to TRUE.
<code>y_zero_line</code>	For a numeric y variable, TRUE or FALSE whether to add a zero reference line to the y scale. Defaults to TRUE if there are positive and negative values in <code>y_var</code> . Otherwise defaults to FALSE.
<code>col_labels</code>	A function or vector to modify colour scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep y labels untransformed.
<code>col_legend_ncol</code>	The number of columns in the legend.
<code>col_legend_nrow</code>	The number of rows in the legend.

col_na	TRUE or FALSE of whether to include col_var NA values. Defaults to TRUE.
col_title	Colour title string for the legend. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
col_title_wrap	Number of characters to wrap the colour title to. Defaults to 25.
facet_labels	As per the ggplot2 labeller argument within the ggplot facet_wrap function. If NULL, defaults to ggplot2::as_labeller(stringr::str_to_sentence). Use facet_labels = ggplot2::label_value to turn off default sentence case transformation.
facet_na	TRUE or FALSE of whether to include facet_var NA values. Defaults to TRUE.
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.
caption_wrap	Number of characters to wrap the caption to. Defaults to 80.
font_family	Font family to use. Defaults to "".
font_size_title	Font size for the title text. Defaults to 11.
font_size_body	Font size for all text other than the title. Defaults to 10.

Value

A ggplot object.

Examples

```
library(dplyr)
library(simplevis)
library(palmerpenguins)

plot_data <- penguins %>%
  group_by(year, species, sex) %>%
  summarise(body_mass_g = mean(body_mass_g, na.rm = TRUE)) %>%
  mutate(year = as.character(year))

gg_line_col_facet(plot_data,
  x_var = year,
  y_var = body_mass_g,
  col_var = sex,
  facet_var = species)
```

gg_line_facet

*Line ggplot that is faceted.***Description**

Line ggplot that is faceted, but not coloured.

Usage

```
gg_line_facet(data, x_var, y_var, facet_var, text_var = NULL,
  pal = NULL, size_point = 1, size_line = 0.5, title = NULL,
  title_wrap = 100, subtitle = NULL, subtitle_wrap = 100,
  x_balance = FALSE, x_expand = NULL, x_labels = NULL, x_na = TRUE,
  x_pretty_n = 3, x_rev = FALSE, x_title = NULL, x_title_wrap = 50,
  x_zero = FALSE, x_zero_line = NULL, y_balance = FALSE,
  y_expand = NULL, y_gridlines_minor = FALSE, y_labels = waiver(),
  y_na = TRUE, y_pretty_n = 4, y_title = NULL, y_title_wrap = 50,
  y_trans = "identity", y_zero = FALSE, y_zero_line = NULL,
  facet_labels = NULL, facet_na = TRUE, facet_ncol = NULL,
  facet_nrow = NULL, facet_scales = "fixed", caption = NULL,
  caption_wrap = 80, font_family = "", font_size_title = NULL,
  font_size_body = NULL)
```

Arguments

data	A tibble or dataframe. Required input.
x_var	Unquoted variable to be on the x scale (i.e. character, factor, logical, numeric, date or datetime). Required input.
y_var	Unquoted numeric variable to be on the y scale. Required input.
facet_var	Unquoted categorical variable to facet the data by. Required input.
text_var	Unquoted variable to be used as a customised tooltip in combination with <code>plotly::ggplotly(plot, tooltip = "text")</code> . Defaults to NULL.
pal	Character vector of hex codes.
size_point	Size of points. Defaults to 1.
size_line	Size of lines. Defaults to 0.5.
title	Title string. Defaults to NULL.
title_wrap	Number of characters to wrap the title to. Defaults to 100.
subtitle	Subtitle string.
subtitle_wrap	Number of characters to wrap the subtitle to. Defaults to 100.
x_balance	For a numeric x variable, add balance to the x scale so that zero is in the centre. Defaults to FALSE.
x_expand	A vector of range expansion constants used to add padding to the x scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.

x_labels	A function or vector to modify x scale labels, as per the <code>ggplot2</code> labels argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
x_na	TRUE or FALSE of whether to include x_var NA values. Defaults to TRUE.
x_pretty_n	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 3.
x_rev	For a categorical x variable, TRUE or FALSE of whether the x variable variable is reversed. Defaults to FALSE.
x_title	X scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
x_title_wrap	Number of characters to wrap the x title to. Defaults to 50.
x_zero	For a numeric x variable, TRUE or FALSE of whether the minimum of the x scale is zero. Defaults to FALSE.
x_zero_line	For a numeric x variable, TRUE or FALSE of whether to add a zero reference line to the x scale. Defaults to TRUE if there are positive and negative values in x_var. Otherwise defaults to FALSE.
y_balance	For a numeric y variable, add balance to the y scale so that zero is in the centre of the y scale.
y_expand	A vector of range expansion constants used to add padding to the y scale, as per the <code>ggplot2</code> expand argument in <code>ggplot2</code> scales functions.
y_gridlines_minor	TRUE or FALSE of whether to add minor gridlines to the y scale. Defaults to FALSE.
y_labels	A function or vector to modify y scale labels, as per the <code>ggplot2</code> labels argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep y labels untransformed.
y_na	TRUE or FALSE of whether to include y_var NA values. Defaults to TRUE.
y_pretty_n	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 4.
y_title	y scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
y_title_wrap	Number of characters to wrap the y title to. Defaults to 50.
y_trans	For a numeric y variable, a string specifying a transformation for the y scale, such as "log10" or "sqrt". Defaults to "identity".
y_zero	For a numeric y variable, TRUE or FALSE of whether the minimum of the y scale is zero. Defaults to TRUE.
y_zero_line	For a numeric y variable, TRUE or FALSE whether to add a zero reference line to the y scale. Defaults to TRUE if there are positive and negative values in y_var. Otherwise defaults to FALSE.
facet_labels	As per the <code>ggplot2</code> labeller argument within the <code>ggplot</code> <code>facet_wrap</code> function. If NULL, defaults to <code>ggplot2::as_labeller(stringr::str_to_sentence)</code> . Use <code>facet_labels = ggplot2::label_value</code> to turn off default sentence case transformation.
facet_na	TRUE or FALSE of whether to include facet_var NA values. Defaults to TRUE.

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.
caption_wrap	Number of characters to wrap the caption to. Defaults to 80.
font_family	Font family to use. Defaults to "".
font_size_title	Font size for the title text. Defaults to 11.
font_size_body	Font size for all text other than the title. Defaults to 10.

Value

A ggplot object.

Examples

```
library(dplyr)
library(simplevis)
library(palmerpenguins)

plot_data <- penguins %>%
  group_by(year, species) %>%
  summarise(body_mass_g = mean(body_mass_g, na.rm = TRUE)) %>%
  mutate(year = as.character(year))

gg_line_facet(plot_data,
              x_var = year,
              y_var = body_mass_g,
              facet_var = species)
```

gg_point

Point ggplot.

Description

Point ggplot that is not coloured and not faceted.

Usage

```
gg_point(data, x_var, y_var, text_var = NULL, position = "identity",
         alpha = 1, size_point = 1, pal = NULL, title = NULL,
         title_wrap = 100, subtitle = NULL, subtitle_wrap = 100,
         x_balance = FALSE, x_expand = NULL, x_gridlines_minor = FALSE,
         x_labels = NULL, x_pretty_n = 6, x_na = TRUE, x_rev = FALSE,
```

```
x_title = NULL, x_title_wrap = 50, x_trans = "identity",
x_zero = FALSE, x_zero_line = NULL, y_balance = FALSE,
y_expand = NULL, y_gridlines_minor = FALSE, y_labels = waiver(),
y_pretty_n = 5, y_na = TRUE, y_title = NULL, y_title_wrap = 50,
y_trans = "identity", y_zero = FALSE, y_zero_line = NULL,
caption = NULL, caption_wrap = 80, font_family = "",
font_size_title = NULL, font_size_body = NULL, mobile = FALSE)
```

Arguments

<code>data</code>	An ungrouped summarised tibble or dataframe. Required input.
<code>x_var</code>	Unquoted variable to be on the x scale (i.e. character, factor, logical, numeric, date or datetime). Required input.
<code>y_var</code>	Unquoted numeric variable to be on the y scale. Required input.
<code>text_var</code>	Unquoted variable to be used as a customised tooltip in combination with <code>plotly::ggplotly(plot, tooltip = "text")</code> . Defaults to <code>NULL</code> .
<code>position</code>	Whether bars are positioned by "identity" or "jitter". Defaults to "identity".
<code>alpha</code>	The opacity of points. Defaults to 1.
<code>size_point</code>	Size of points. Defaults to 1.
<code>pal</code>	Character vector of hex codes.
<code>title</code>	Title string. Defaults to <code>NULL</code> .
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 100. Not applicable where <code>mobile</code> equals <code>TRUE</code> .
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 100. Not applicable where <code>mobile</code> equals <code>TRUE</code> .
<code>x_balance</code>	For a numeric x variable, add balance to the x scale so that zero is in the centre. Defaults to <code>FALSE</code> .
<code>x_expand</code>	A vector of range expansion constants used to add padding to the x scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>x_gridlines_minor</code>	<code>TRUE</code> or <code>FALSE</code> of whether to add minor gridlines to the x scale. Defaults to <code>FALSE</code> .
<code>x_labels</code>	A function or vector to modify x scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If <code>NULL</code> , categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
<code>x_pretty_n</code>	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 6.
<code>x_na</code>	<code>TRUE</code> or <code>FALSE</code> of whether to include <code>x_var</code> <code>NA</code> values. Defaults to <code>TRUE</code> .
<code>x_rev</code>	For a categorical x variable, <code>TRUE</code> or <code>FALSE</code> of whether the x variable variable is reversed. Defaults to <code>FALSE</code> .
<code>x_title</code>	X scale title string. Defaults to <code>NULL</code> , which converts to sentence case with spaces. Use "" if you would like no title.

<code>x_title_wrap</code>	Number of characters to wrap the x title to. Defaults to 50.
<code>x_trans</code>	For a numeric x variable, a string specifying a transformation for the x scale, such as "log10" or "sqrt". Defaults to "identity".
<code>x_zero</code>	For a numeric x variable, TRUE or FALSE of whether the minimum of the x scale is zero. Defaults to FALSE.
<code>x_zero_line</code>	For a numeric x variable, TRUE or FALSE of whether to add a zero reference line to the x scale. Defaults to TRUE if there are positive and negative values in <code>x_var</code> . Otherwise defaults to FALSE.
<code>y_balance</code>	For a numeric y variable, add balance to the y scale so that zero is in the centre of the y scale.
<code>y_expand</code>	A vector of range expansion constants used to add padding to the y scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>y_gridlines_minor</code>	TRUE or FALSE of whether to add minor gridlines to the y scale. Defaults to FALSE.
<code>y_labels</code>	A function or vector to modify y scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep y labels untransformed.
<code>y_pretty_n</code>	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 5.
<code>y_na</code>	TRUE or FALSE of whether to include <code>y_var</code> NA values. Defaults to TRUE.
<code>y_title</code>	y scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>y_title_wrap</code>	Number of characters to wrap the y title to. Defaults to 50.
<code>y_trans</code>	For a numeric y variable, a string specifying a transformation for the y scale, such as "log10" or "sqrt". Defaults to "identity".
<code>y_zero</code>	For a numeric y variable, TRUE or FALSE of whether the minimum of the y scale is zero. Defaults to TRUE.
<code>y_zero_line</code>	For a numeric y variable, TRUE or FALSE whether to add a zero reference line to the y scale. Defaults to TRUE if there are positive and negative values in <code>y_var</code> . Otherwise defaults to FALSE.
<code>caption</code>	Caption title string.
<code>caption_wrap</code>	Number of characters to wrap the caption to. Defaults to 80. Not applicable where <code>mobile</code> equals TRUE.
<code>font_family</code>	Font family to use. Defaults to "".
<code>font_size_title</code>	Font size for the title text. Defaults to 11.
<code>font_size_body</code>	Font size for all text other than the title. Defaults to 10.
<code>mobile</code>	Whether the plot is to be displayed on a mobile device. Defaults to FALSE. If within a shiny app with the <code>mobileDetect</code> function, then use <code>mobile = input\$isMobile</code> .

Value

A ggplot object.

Examples

```
library(simplevis)
library(palmerpenguins)

gg_point(penguins,
         x_var = bill_length_mm,
         y_var = body_mass_g)
```

gg_point_col	<i>Point ggplot that is coloured.</i>
--------------	---------------------------------------

Description

Point ggplot that is coloured, but not faceted.

Usage

```
gg_point_col(data, x_var, y_var, col_var, text_var = NULL,
             position = "identity", alpha = 1, size_point = 1, pal = NULL,
             pal_rev = FALSE, x_balance = FALSE, x_expand = NULL,
             x_gridlines_minor = FALSE, x_labels = NULL, x_na = TRUE,
             x_pretty_n = 6, x_rev = FALSE, x_trans = "identity",
             x_zero = FALSE, x_zero_line = NULL, y_balance = FALSE,
             y_expand = NULL, y_gridlines_minor = FALSE, y_labels = waiver(),
             y_na = TRUE, y_pretty_n = 5, y_trans = "identity",
             y_zero = FALSE, y_zero_line = NULL, title = NULL,
             subtitle = NULL, x_title = NULL, y_title = NULL,
             col_title = NULL, caption = NULL, col_cuts = NULL,
             col_labels = NULL, col_labels_dp = NULL, col_legend_ncol = NULL,
             col_legend_nrow = NULL, col_method = NULL, col_na = TRUE,
             font_family = "", font_size_title = NULL, font_size_body = NULL,
             title_wrap = 100, subtitle_wrap = 100, x_title_wrap = 50,
             y_title_wrap = 50, col_title_wrap = 25, caption_wrap = 80,
             mobile = FALSE)
```

Arguments

data	An ungrouped summarised tibble or dataframe. Required input.
x_var	Unquoted variable to be on the x scale (i.e. character, factor, logical, numeric, date or datetime). Required input.
y_var	Unquoted numeric variable to be on the y scale. Required input.
col_var	Unquoted variable for points to be coloured by. Required input.

<code>text_var</code>	Unquoted variable to be used as a customised tooltip in combination with <code>plotly::ggplotly(plot, tooltip = "text")</code> . Defaults to <code>NULL</code> .
<code>position</code>	Whether bars are positioned by "identity" or "jitter". Defaults to "identity".
<code>alpha</code>	The opacity of points. Defaults to 1.
<code>size_point</code>	Size of points. Defaults to 1.
<code>pal</code>	Character vector of hex codes.
<code>pal_rev</code>	Reverses the palette. Defaults to <code>FALSE</code> .
<code>x_balance</code>	For a numeric x variable, add balance to the x scale so that zero is in the centre. Defaults to <code>FALSE</code> .
<code>x_expand</code>	A vector of range expansion constants used to add padding to the x scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>x_gridlines_minor</code>	<code>TRUE</code> or <code>FALSE</code> of whether to add minor gridlines to the x scale. Defaults to <code>FALSE</code> .
<code>x_labels</code>	A function or vector to modify x scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If <code>NULL</code> , categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
<code>x_na</code>	<code>TRUE</code> or <code>FALSE</code> of whether to include <code>x_var</code> NA values. Defaults to <code>TRUE</code> .
<code>x_pretty_n</code>	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 6.
<code>x_rev</code>	For a categorical x variable, <code>TRUE</code> or <code>FALSE</code> of whether the x variable variable is reversed. Defaults to <code>FALSE</code> .
<code>x_trans</code>	For a numeric x variable, a string specifying a transformation for the x scale, such as "log10" or "sqrt". Defaults to "identity".
<code>x_zero</code>	For a numeric x variable, <code>TRUE</code> or <code>FALSE</code> of whether the minimum of the x scale is zero. Defaults to <code>FALSE</code> .
<code>x_zero_line</code>	For a numeric x variable, <code>TRUE</code> or <code>FALSE</code> of whether to add a zero reference line to the x scale. Defaults to <code>TRUE</code> if there are positive and negative values in <code>x_var</code> . Otherwise defaults to <code>FALSE</code> .
<code>y_balance</code>	For a numeric y variable, add balance to the y scale so that zero is in the centre of the y scale.
<code>y_expand</code>	A vector of range expansion constants used to add padding to the y scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>y_gridlines_minor</code>	<code>TRUE</code> or <code>FALSE</code> of whether to add minor gridlines to the y scale. Defaults to <code>FALSE</code> .
<code>y_labels</code>	A function or vector to modify y scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If <code>NULL</code> , categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep y labels untransformed.
<code>y_na</code>	<code>TRUE</code> or <code>FALSE</code> of whether to include <code>y_var</code> NA values. Defaults to <code>TRUE</code> .
<code>y_pretty_n</code>	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 5.

y_trans	For a numeric y variable, a string specifying a transformation for the y scale, such as "log10" or "sqrt". Defaults to "identity".
y_zero	For a numeric y variable, TRUE or FALSE of whether the minimum of the y scale is zero. Defaults to TRUE.
y_zero_line	For a numeric y variable, TRUE or FALSE whether to add a zero reference line to the y scale. Defaults to TRUE if there are positive and negative values in y_var. Otherwise defaults to FALSE.
title	Title string. Defaults to NULL.
subtitle	Subtitle string.
x_title	X scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
y_title	y scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
col_title	Colour title string for the legend. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
caption	Caption title string.
col_cuts	A vector of cuts to colour a numeric variable. If "bin" is selected, the first number in the vector should be either -Inf or 0, and the final number Inf. If "quantile" is selected, the first number in the vector should be 0 and the final number should be 1. Defaults to quartiles.
col_labels	A function or vector to modify colour scale labels, as per the ggplot2 labels argument in ggplot2 scales functions. If NULL, categorical variable labels are converted to sentence case, and numeric variable labels to pretty labels with an internal function. Use ggplot2::waiver() to keep colour labels untransformed.
col_labels_dp	For numeric colour variables and where col_labels equals NULL, the number of decimal places. Defaults to 1 for "quantile" col_method, and the lowest dp within the col_cuts vector for "bin".
col_legend_ncol	The number of columns in the legend.
col_legend_nrow	The number of rows in the legend.
col_method	The method of colouring features, either "bin", "quantile" or "category." If numeric, defaults to "quantile".
col_na	TRUE or FALSE of whether to include col_var NA values. Defaults to TRUE.
font_family	Font family to use. Defaults to "".
font_size_title	Font size for the title text. Defaults to 11.
font_size_body	Font size for all text other than the title. Defaults to 10.
title_wrap	Number of characters to wrap the title to. Defaults to 100. Not applicable where mobile equals TRUE.
subtitle_wrap	Number of characters to wrap the subtitle to. Defaults to 100. Not applicable where mobile equals TRUE.

x_title_wrap	Number of characters to wrap the x title to. Defaults to 50.
y_title_wrap	Number of characters to wrap the y title to. Defaults to 50.
col_title_wrap	Number of characters to wrap the colour title to. Defaults to 25. Not applicable where mobile equals TRUE.
caption_wrap	Number of characters to wrap the caption to. Defaults to 80. Not applicable where mobile equals TRUE.
mobile	Whether the plot is to be displayed on a mobile device. Defaults to FALSE. If within a shiny app with the mobileDetect function, then use mobile = input\$isMobile.

Value

A ggplot object.

Examples

```
library(simplevis)
library(palmerpenguins)

gg_point_col(penguins,
             x_var = bill_length_mm,
             y_var = body_mass_g,
             col_var = species)
```

gg_point_col_facet *Point ggplot that is coloured and faceted.*

Description

Point ggplot that is coloured and faceted.

Usage

```
gg_point_col_facet(data, x_var, y_var, col_var, facet_var,
                  text_var = NULL, position = "identity", alpha = 1,
                  size_point = 1, pal = NULL, pal_rev = FALSE, title = NULL,
                  title_wrap = 100, subtitle = NULL, subtitle_wrap = 100,
                  x_balance = FALSE, x_expand = NULL, x_gridlines_minor = FALSE,
                  x_labels = NULL, x_na = TRUE, x_pretty_n = 3, x_rev = FALSE,
                  x_title = NULL, x_title_wrap = 50, x_trans = "identity",
                  x_zero = FALSE, x_zero_line = NULL, y_balance = FALSE,
                  y_expand = NULL, y_gridlines_minor = FALSE, y_labels = waiver(),
                  y_na = TRUE, y_pretty_n = 4, y_title = NULL, y_title_wrap = 50,
                  y_trans = "identity", y_zero = FALSE, y_zero_line = NULL,
                  col_cuts = NULL, col_labels = NULL, col_labels_dp = NULL,
                  col_legend_ncol = NULL, col_legend_nrow = NULL, col_method = NULL,
```

```
col_na = TRUE, col_title = NULL, col_title_wrap = 25,
facet_labels = NULL, facet_na = TRUE, facet_ncol = NULL,
facet_nrow = NULL, facet_scales = "fixed", caption = NULL,
caption_wrap = 80, font_family = "", font_size_title = NULL,
font_size_body = NULL)
```

Arguments

<code>data</code>	An ungrouped summarised tibble or dataframe. Required input.
<code>x_var</code>	Unquoted variable to be on the x scale (i.e. character, factor, logical, numeric, date or datetime). Required input.
<code>y_var</code>	Unquoted numeric variable to be on the y scale. Required input.
<code>col_var</code>	Unquoted variable for points to be coloured by. Required input.
<code>facet_var</code>	Unquoted categorical variable to facet the data by. Required input.
<code>text_var</code>	Unquoted variable to be used as a customised tooltip in combination with <code>plotly::ggplotly(plot, tooltip = "text")</code> . Defaults to NULL.
<code>position</code>	Whether bars are positioned by "identity" or "jitter". Defaults to "identity".
<code>alpha</code>	The opacity of points. Defaults to 1.
<code>size_point</code>	Size of points. Defaults to 1.
<code>pal</code>	Character vector of hex codes.
<code>pal_rev</code>	Reverses the palette. Defaults to FALSE.
<code>title</code>	Title string. Defaults to NULL.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 100.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 100.
<code>x_balance</code>	For a numeric x variable, add balance to the x scale so that zero is in the centre. Defaults to FALSE.
<code>x_expand</code>	A vector of range expansion constants used to add padding to the x scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>x_gridlines_minor</code>	TRUE or FALSE of whether to add minor gridlines to the x scale. Defaults to FALSE.
<code>x_labels</code>	A function or vector to modify x scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
<code>x_na</code>	TRUE or FALSE of whether to include <code>x_var</code> NA values. Defaults to TRUE.
<code>x_pretty_n</code>	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 3.
<code>x_rev</code>	For a categorical x variable, TRUE or FALSE of whether the x variable variable is reversed. Defaults to FALSE.
<code>x_title</code>	X scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.

<code>x_title_wrap</code>	Number of characters to wrap the x title to. Defaults to 50.
<code>x_trans</code>	For a numeric x variable, a string specifying a transformation for the x scale, such as "log10" or "sqrt". Defaults to "identity".
<code>x_zero</code>	For a numeric x variable, TRUE or FALSE of whether the minimum of the x scale is zero. Defaults to FALSE.
<code>x_zero_line</code>	For a numeric x variable, TRUE or FALSE of whether to add a zero reference line to the x scale. Defaults to TRUE if there are positive and negative values in <code>x_var</code> . Otherwise defaults to FALSE.
<code>y_balance</code>	For a numeric y variable, add balance to the y scale so that zero is in the centre of the y scale.
<code>y_expand</code>	A vector of range expansion constants used to add padding to the y scale, as per the <code>ggplot2</code> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>y_gridlines_minor</code>	TRUE or FALSE of whether to add minor gridlines to the y scale. Defaults to FALSE.
<code>y_labels</code>	A function or vector to modify y scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep y labels untransformed.
<code>y_na</code>	TRUE or FALSE of whether to include <code>y_var</code> NA values. Defaults to TRUE.
<code>y_pretty_n</code>	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 4.
<code>y_title</code>	y scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>y_title_wrap</code>	Number of characters to wrap the y title to. Defaults to 50.
<code>y_trans</code>	For a numeric y variable, a string specifying a transformation for the y scale, such as "log10" or "sqrt". Defaults to "identity".
<code>y_zero</code>	For a numeric y variable, TRUE or FALSE of whether the minimum of the y scale is zero. Defaults to TRUE.
<code>y_zero_line</code>	For a numeric y variable, TRUE or FALSE whether to add a zero reference line to the y scale. Defaults to TRUE if there are positive and negative values in <code>y_var</code> . Otherwise defaults to FALSE.
<code>col_cuts</code>	A vector of cuts to colour a numeric variable. If "bin" is selected, the first number in the vector should be either -Inf or 0, and the final number Inf. If "quantile" is selected, the first number in the vector should be 0 and the final number should be 1. Defaults to quartiles.
<code>col_labels</code>	A function or vector to modify colour scale labels, as per the <code>ggplot2</code> <code>labels</code> argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case, and numeric variable labels to pretty labels with an internal function. Use <code>ggplot2::waiver()</code> to keep colour labels untransformed.
<code>col_labels_dp</code>	For numeric colour variables and where <code>col_labels</code> equals NULL, the number of decimal places. Defaults to 1 for "quantile" <code>col_method</code> , and the lowest dp within the <code>col_cuts</code> vector for "bin".
<code>col_legend_ncol</code>	The number of columns in the legend.

col_legend_nrow	The number of rows in the legend.
col_method	The method of colouring features, either "bin", "quantile" or "category." If numeric, defaults to "quantile".
col_na	TRUE or FALSE of whether to include col_var NA values. Defaults to TRUE.
col_title	Colour title string for the legend. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
col_title_wrap	Number of characters to wrap the colour title to. Defaults to 25.
facet_labels	As per the ggplot2 labeller argument within the ggplot facet_wrap function. If NULL, defaults to ggplot2::as_labeller(stringr::str_to_sentence). Use facet_labels = ggplot2::label_value to turn off default sentence case transformation.
facet_na	TRUE or FALSE of whether to include facet_var NA values. Defaults to TRUE.
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.
caption_wrap	Number of characters to wrap the caption to. Defaults to 80.
font_family	Font family to use. Defaults to "".
font_size_title	Font size for the title text. Defaults to 11.
font_size_body	Font size for all text other than the title. Defaults to 10.

Value

A ggplot object.

Examples

```
library(simplevis)
library(palmerpenguins)

gg_point_col_facet(penguins,
  x_var = bill_length_mm,
  y_var = body_mass_g,
  col_var = sex,
  facet_var = species)
```

gg_point_facet	<i>Point ggplot that is faceted.</i>
----------------	--------------------------------------

Description

Point ggplot that is faceted, but not coloured.

Usage

```
gg_point_facet(data, x_var, y_var, facet_var, text_var = NULL,
  position = "identity", alpha = 1, size_point = 1, pal = NULL,
  title = NULL, title_wrap = 100, subtitle = NULL,
  subtitle_wrap = 100, x_balance = FALSE, x_expand = NULL,
  x_gridlines_minor = FALSE, x_labels = NULL, x_na = TRUE,
  x_pretty_n = 3, x_rev = FALSE, x_title = NULL, x_title_wrap = 50,
  x_trans = "identity", x_zero = FALSE, x_zero_line = NULL,
  y_balance = FALSE, y_gridlines_minor = FALSE, y_expand = NULL,
  y_labels = waiver(), y_na = TRUE, y_pretty_n = 4, y_title = NULL,
  y_title_wrap = 50, y_trans = "identity", y_zero = FALSE,
  y_zero_line = NULL, facet_labels = NULL, facet_na = TRUE,
  facet_ncol = NULL, facet_nrow = NULL, facet_scales = "fixed",
  caption = NULL, caption_wrap = 80, font_family = "",
  font_size_title = NULL, font_size_body = NULL)
```

Arguments

data	An ungrouped summarised tibble or dataframe. Required input.
x_var	Unquoted variable to be on the x scale (i.e. character, factor, logical, numeric, date or datetime). Required input.
y_var	Unquoted numeric variable to be on the y scale. Required input.
facet_var	Unquoted categorical variable to facet the data by. Required input.
text_var	Unquoted variable to be used as a customised tooltip in combination with <code>plotly::ggplotly(plot, tooltip = "text")</code> . Defaults to NULL.
position	Whether bars are positioned by "identity" or "jitter". Defaults to "identity".
alpha	The opacity of points. Defaults to 1.
size_point	Size of points. Defaults to 1.
pal	Character vector of hex codes.
title	Title string. Defaults to NULL.
title_wrap	Number of characters to wrap the title to. Defaults to 100.
subtitle	Subtitle string.
subtitle_wrap	Number of characters to wrap the subtitle to. Defaults to 100.
x_balance	For a numeric x variable, add balance to the x scale so that zero is in the centre. Defaults to FALSE.

x_expand	A vector of range expansion constants used to add padding to the x scale, as per the ggplot2 expand argument in ggplot2 scales functions.
x_gridlines_minor	TRUE or FALSE of whether to add minor gridlines to the x scale. Defaults to FALSE.
x_labels	A function or vector to modify x scale labels, as per the ggplot2 labels argument in ggplot2 scales functions. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep x labels untransformed.
x_na	TRUE or FALSE of whether to include x_var NA values. Defaults to TRUE.
x_pretty_n	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 3.
x_rev	For a categorical x variable, TRUE or FALSE of whether the x variable variable is reversed. Defaults to FALSE.
x_title	X scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
x_title_wrap	Number of characters to wrap the x title to. Defaults to 50.
x_trans	For a numeric x variable, a string specifying a transformation for the x scale, such as "log10" or "sqrt". Defaults to "identity".
x_zero	For a numeric x variable, TRUE or FALSE of whether the minimum of the x scale is zero. Defaults to FALSE.
x_zero_line	For a numeric x variable, TRUE or FALSE of whether to add a zero reference line to the x scale. Defaults to TRUE if there are positive and negative values in x_var. Otherwise defaults to FALSE.
y_balance	For a numeric y variable, add balance to the y scale so that zero is in the centre of the y scale.
y_gridlines_minor	TRUE or FALSE of whether to add minor gridlines to the y scale. Defaults to FALSE.
y_expand	A vector of range expansion constants used to add padding to the y scale, as per the ggplot2 expand argument in ggplot2 scales functions.
y_labels	A function or vector to modify y scale labels, as per the ggplot2 labels argument in ggplot2 scales functions. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep y labels untransformed.
y_na	TRUE or FALSE of whether to include y_var NA values. Defaults to TRUE.
y_pretty_n	For a numeric or date x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 4.
y_title	y scale title string. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
y_title_wrap	Number of characters to wrap the y title to. Defaults to 50.
y_trans	For a numeric y variable, a string specifying a transformation for the y scale, such as "log10" or "sqrt". Defaults to "identity".
y_zero	For a numeric y variable, TRUE or FALSE of whether the minimum of the y scale is zero. Defaults to TRUE.

<code>y_zero_line</code>	For a numeric y variable, TRUE or FALSE whether to add a zero reference line to the y scale. Defaults to TRUE if there are positive and negative values in <code>y_var</code> . Otherwise defaults to FALSE.
<code>facet_labels</code>	As per the ggplot2 labeller argument within the ggplot facet_wrap function. If NULL, defaults to ggplot2::as_labeller(stringr::str_to_sentence). Use <code>facet_labels = ggplot2::label_value</code> to turn off default sentence case transformation.
<code>facet_na</code>	TRUE or FALSE of whether to include facet_var NA values. Defaults to TRUE.
<code>facet_ncol</code>	The number of columns of faceted plots.
<code>facet_nrow</code>	The number of rows of faceted plots.
<code>facet_scales</code>	Whether facet_scales should be "fixed" across facets, "free" in both directions, or free in just one direction (i.e. "free_x" or "free_y"). Defaults to "fixed".
<code>caption</code>	Caption title string.
<code>caption_wrap</code>	Number of characters to wrap the caption to. Defaults to 80.
<code>font_family</code>	Font family to use. Defaults to "".
<code>font_size_title</code>	Font size for the title text. Defaults to 11.
<code>font_size_body</code>	Font size for all text other than the title. Defaults to 10.

Value

A ggplot object.

Examples

```
library(simplevis)
library(palmerpenguins)

gg_point_facet(penguins,
               x_var = bill_length_mm,
               y_var = body_mass_g,
               facet_var = species)
```

`gg_sf`

Simple feature ggplot map.

Description

Map of simple features in ggplot that is not coloured and not faceted.

Usage

```
gg_sf(data, text_var = NULL, size_point = 1, size_line = 0.5,
      alpha = 0.9, pal = NULL, borders = NULL, borders_behind = TRUE,
      borders_pal = "#7f7f7f", borders_size = 0.2, title = NULL,
      title_wrap = 100, subtitle = NULL, subtitle_wrap = 100,
      caption = NULL, caption_wrap = 80, font_family = "",
      font_size_title = NULL, font_size_body = NULL, mobile = FALSE)
```


Arguments

<code>data</code>	A sf object with defined coordinate reference system. Required input.
<code>text_var</code>	Unquoted variable to be used as a customised tooltip in combination with <code>plotly::ggplotly(plot, tooltip = "text")</code> . Defaults to NULL.
<code>size_point</code>	Size of points. Defaults to 0.5.
<code>size_line</code>	Size of lines. Defaults to 0.5.
<code>alpha</code>	The alpha of the fill. Defaults to 0.9.
<code>pal</code>	Character vector of hex codes.
<code>borders</code>	A sf object as administrative boundaries (or coastlines). Defaults to no boundaries added. The <code>rnatualearth</code> package is a useful source of country and state boundaries.
<code>borders_behind</code>	TRUE or FALSE as to whether the borders is to be behind the sf object defined in the data argument. Defaults to TRUE.
<code>borders_pal</code>	Colour of the borders. Defaults to "#7F7F7F".
<code>borders_size</code>	Size of the borders. Defaults to 0.2.
<code>title</code>	Title string. Defaults to NULL.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 100. Not applicable where <code>mobile</code> equals TRUE.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 100. Not applicable where <code>mobile</code> equals TRUE.
<code>caption</code>	Caption title string.
<code>caption_wrap</code>	Number of characters to wrap the caption to. Defaults to 80. Not applicable where <code>mobile</code> equals TRUE.
<code>font_family</code>	Font family to use. Defaults to "".
<code>font_size_title</code>	Font size for the title text. Defaults to 11.
<code>font_size_body</code>	Font size for all text other than the title. Defaults to 10.
<code>mobile</code>	Whether the plot is to be displayed on a mobile device. Defaults to FALSE. If within a shiny app with the <code>mobileDetect</code> function, then use <code>mobile = input\$mobile</code> .

Value

A ggplot object.

Examples

```
gg_sf(example_sf_point,
      borders = nz)
```

gg_sf_col

*Simple feature ggplot map that is coloured.***Description**

Map of simple features in ggplot that is coloured, but not faceted.

Usage

```
gg_sf_col(data, col_var, text_var = NULL, pal = NULL,
  pal_rev = FALSE, size_point = 1, size_line = 0.5, alpha = 0.9,
  borders = NULL, borders_behind = TRUE, borders_pal = "#7f7f7f",
  borders_size = 0.2, title = NULL, title_wrap = 100,
  subtitle = NULL, subtitle_wrap = 100, col_cuts = NULL,
  col_labels = NULL, col_labels_dp = NULL, col_legend_ncol = NULL,
  col_legend_nrow = NULL, col_na = TRUE, col_method = NULL,
  col_title = NULL, col_title_wrap = 25, caption = NULL,
  caption_wrap = 80, font_family = "", font_size_title = NULL,
  font_size_body = NULL, mobile = FALSE)
```

Arguments

data	A sf object with defined coordinate reference system. Required input.
col_var	Unquoted variable for points to be coloured by. Required input.
text_var	Unquoted variable to be used as a customised tooltip in combination with <code>plotly::ggplotly(plot, tooltip = "text")</code> . Defaults to NULL.
pal	Character vector of hex codes. Defaults to NULL, which selects the colorbrewer Set1 or viridis.
pal_rev	Reverses the palette. Defaults to FALSE.
size_point	Size of points. Defaults to 0.5.
size_line	Size of lines. Defaults to 0.5.
alpha	The opacity of polygons. Defaults to 0.9.
borders	A sf object as administrative boundaries (or coastlines). Defaults to no boundaries added. The <code>rnatualearth</code> package is a useful source of country and state boundaries.
borders_behind	TRUE or FALSE as to whether the borders is to be behind the sf object defined in the data argument. Defaults to TRUE.
borders_pal	Colour of the borders. Defaults to "#7F7F7F".
borders_size	Size of the borders. Defaults to 0.2.
title	Title string. Defaults to NULL.
title_wrap	Number of characters to wrap the title to. Defaults to 100. Not applicable where <code>mobile</code> equals TRUE.
subtitle	Subtitle string.

subtitle_wrap	Number of characters to wrap the subtitle to. Defaults to 100. Not applicable where mobile equals TRUE.
col_cuts	A vector of cuts to colour a numeric variable. If "bin" is selected, the first number in the vector should be either -Inf or 0, and the final number Inf. If "quantile" is selected, the first number in the vector should be 0 and the final number should be 1. Defaults to quartiles.
col_labels	A function or vector to modify colour scale labels, as per the ggplot2 labels argument in ggplot2 scales functions. If NULL, categorical variable labels are converted to sentence case, and numeric variable labels to pretty labels with an internal function. Use ggplot2::waiver() to keep colour labels untransformed.
col_labels_dp	For numeric colour variables and where col_labels equals NULL, the number of decimal places. Defaults to 1 for "quantile" col_method, and the lowest dp within the col_cuts vector for "bin".
col_legend_ncol	The number of columns in the legend.
col_legend_nrow	The number of rows in the legend.
col_na	TRUE or FALSE of whether to include col_var NA values. Defaults to TRUE.
col_method	The method of colouring features, either "bin", "quantile" or "category." NULL results in "category", if categorical or "quantile" if numeric col_var. Note all numeric variables are cut to be inclusive of the min in the range, and exclusive of the max in the range (except for the final bucket which includes the highest value).
col_title	Colour title string for the legend. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
col_title_wrap	Number of characters to wrap the colour title to. Defaults to 25. Not applicable where mobile equals TRUE.
caption	Caption title string.
caption_wrap	Number of characters to wrap the caption to. Defaults to 80. Not applicable where mobile equals TRUE.
font_family	Font family to use. Defaults to "".
font_size_title	Font size for the title text. Defaults to 11.
font_size_body	Font size for all text other than the title. Defaults to 10.
mobile	Whether the plot is to be displayed on a mobile device. Defaults to FALSE. If within a shiny app with the mobileDetect function, then use mobile = input\$isMobile.

Value

A ggplot object.

Examples

```
gg_sf_col(example_sf_point,
          col_var = trend_category,
          borders = nz)

gg_sf_col(example_sf_polygon,
          col_var = density,
          borders = nz,
          col_method = "bin",
          col_cuts = c(0, 10, 50, 100, 150, 200, Inf))

gg_sf_col(example_sf_polygon,
          col_var = density,
          borders = nz,
          col_method = "quantile",
          col_cuts = c(0, 0.25, 0.5, 0.75, 0.95, 1))
```

gg_sf_col_facet	<i>Simple feature ggplot map that is coloured and faceted.</i>
-----------------	--

Description

Map of simple features in ggplot that is coloured and faceted.

Usage

```
gg_sf_col_facet(data, col_var, facet_var, text_var = NULL, pal = NULL,
               pal_rev = FALSE, size_point = 1, size_line = 0.5, alpha = 0.9,
               borders = NULL, borders_behind = TRUE, borders_pal = "#7f7f7f",
               borders_size = 0.2, title = NULL, title_wrap = 100,
               subtitle = NULL, subtitle_wrap = 100, col_cuts = NULL,
               col_labels = NULL, col_labels_dp = NULL, col_method = NULL,
               col_legend_ncol = NULL, col_legend_nrow = NULL, col_na = TRUE,
               col_title = NULL, col_title_wrap = 25, facet_labels = NULL,
               facet_na = TRUE, facet_ncol = NULL, facet_nrow = NULL,
               caption = NULL, caption_wrap = 80, font_family = "",
               font_size_title = NULL, font_size_body = NULL)
```

Arguments

data	A sf object with defined coordinate reference system. Required input.
col_var	Unquoted variable for points to be coloured by. Required input.
facet_var	Unquoted categorical variable to facet the data by. Required input.
text_var	Unquoted variable to be used as a customised tooltip in combination with plotly::ggplotly(plot, tooltip = "text"). Defaults to NULL.

<code>pal</code>	Character vector of hex codes. Defaults to NULL, which selects the colorbrewer Set1 or viridis.
<code>pal_rev</code>	Reverses the palette. Defaults to FALSE.
<code>size_point</code>	Size of points. Defaults to 0.5.
<code>size_line</code>	Size of lines. Defaults to 0.5.
<code>alpha</code>	The opacity of polygons. Defaults to 0.9.
<code>borders</code>	A sf object as administrative boundaries (or coastlines). Defaults to no boundaries added. The <code>naturalearth</code> package is a useful source of country and state boundaries.
<code>borders_behind</code>	TRUE or FALSE as to whether the borders is to be behind the sf object defined in the data argument. Defaults to TRUE.
<code>borders_pal</code>	Colour of the borders. Defaults to "#7F7F7F".
<code>borders_size</code>	Size of the borders. Defaults to 0.2.
<code>title</code>	Title string. Defaults to NULL.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 100.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 100.
<code>col_cuts</code>	A vector of cuts to colour a numeric variable. If "bin" is selected, the first number in the vector should be either <code>-Inf</code> or 0, and the final number <code>Inf</code> . If "quantile" is selected, the first number in the vector should be 0 and the final number should be 1. Defaults to quartiles.
<code>col_labels</code>	A function or vector to modify colour scale labels, as per the <code>ggplot2</code> labels argument in <code>ggplot2</code> scales functions. If NULL, categorical variable labels are converted to sentence case, and numeric variable labels to pretty labels with an internal function. Use <code>ggplot2::waiver()</code> to keep colour labels untransformed.
<code>col_labels_dp</code>	For numeric colour variables and where <code>col_labels</code> equals NULL, the number of decimal places. Defaults to 1 for "quantile" <code>col_method</code> , and the lowest dp within the <code>col_cuts</code> vector for "bin".
<code>col_method</code>	The method of colouring features, either "bin", "quantile" or "category." NULL results in "category", if categorical or "quantile" if numeric <code>col_var</code> . Note all numeric variables are cut to be inclusive of the min in the range, and exclusive of the max in the range (except for the final bucket which includes the highest value).
<code>col_legend_ncol</code>	The number of columns in the legend.
<code>col_legend_nrow</code>	The number of rows in the legend.
<code>col_na</code>	TRUE or FALSE of whether to include <code>col_var</code> NA values. Defaults to TRUE.
<code>col_title</code>	Colour title string for the legend. Defaults to NULL, which converts to sentence case with spaces. Use "" if you would like no title.
<code>col_title_wrap</code>	Number of characters to wrap the colour title to. Defaults to 25.

facet_labels	As per the ggplot2 labeller argument within the ggplot facet_wrap function. If NULL, defaults to ggplot2::as_labeller(stringr::str_to_sentence). Use facet_labels = ggplot2::label_value to turn off default sentence case transformation.
facet_na	TRUE or FALSE of whether to include facet_var NA values. Defaults to TRUE.
facet_ncol	The number of columns of faceted plots.
facet_nrow	The number of rows of faceted plots.
caption	Caption title string.
caption_wrap	Number of characters to wrap the caption to. Defaults to 80.
font_family	Font family to use. Defaults to "".
font_size_title	Font size for the title text. Defaults to 11.
font_size_body	Font size for all text other than the title. Defaults to 10.

Value

A ggplot object.

Examples

```
gg_sf_col_facet(example_sf_point,
               col_var = trend_category,
               facet_var = trend_category,
               borders = nz)
```

gg_sf_facet

Simple feature ggplot map that is faceted.

Description

Map of simple features in ggplot that is faceted, but not coloured.

Usage

```
gg_sf_facet(data, facet_var, text_var = NULL, size_point = 1,
            size_line = 0.5, alpha = 0.9, pal = NULL, facet_labels = NULL,
            facet_na = TRUE, facet_ncol = NULL, facet_nrow = NULL,
            borders = NULL, borders_behind = TRUE, borders_pal = "#7f7f7f",
            borders_size = 0.2, title = NULL, title_wrap = 100,
            subtitle = NULL, subtitle_wrap = 100, caption = NULL,
            caption_wrap = 80, font_family = "", font_size_title = NULL,
            font_size_body = NULL)
```

Arguments

<code>data</code>	A sf object with defined coordinate reference system. Required input.
<code>facet_var</code>	Unquoted categorical variable to facet the data by. Required input.
<code>text_var</code>	Unquoted variable to be used as a customised tooltip in combination with <code>plotly::ggplotly(plot, tooltip = "text")</code> . Defaults to NULL.
<code>size_point</code>	Size of points. Defaults to 0.5.
<code>size_line</code>	Size of lines. Defaults to 0.5.
<code>alpha</code>	The alpha of the fill. Defaults to 0.9.
<code>pal</code>	Character vector of hex codes.
<code>facet_labels</code>	As per the <code>ggplot2</code> labeller argument within the <code>ggplot</code> <code>facet_wrap</code> function. If NULL, defaults to <code>ggplot2::as_labeller(stringr::str_to_sentence)</code> . Use <code>facet_labels = ggplot2::label_value</code> to turn off default sentence case transformation.
<code>facet_na</code>	TRUE or FALSE of whether to include <code>facet_var</code> NA values. Defaults to TRUE.
<code>facet_ncol</code>	The number of columns of faceted plots.
<code>facet_nrow</code>	The number of rows of faceted plots.
<code>borders</code>	A sf object as administrative boundaries (or coastlines). Defaults to no boundaries added. The <code>naturalearth</code> package is a useful source of country and state boundaries.
<code>borders_behind</code>	TRUE or FALSE as to whether the borders is to be behind the sf object defined in the data argument. Defaults to TRUE.
<code>borders_pal</code>	Colour of the borders. Defaults to "#7F7F7F".
<code>borders_size</code>	Size of the borders. Defaults to 0.2.
<code>title</code>	Title string. Defaults to NULL.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 100.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 100.
<code>caption</code>	Caption title string.
<code>caption_wrap</code>	Number of characters to wrap the caption to. Defaults to 80.
<code>font_family</code>	Font family to use. Defaults to "".
<code>font_size_title</code>	Font size for the title text. Defaults to 11.
<code>font_size_body</code>	Font size for all text other than the title. Defaults to 10.

Value

A ggplot object.

Examples

```
gg_sf_facet(example_sf_point,
            facet_var = trend_category,
            borders = nz)
```

leaflet_basemap	<i>Basemap stack in leaflet.</i>
-----------------	----------------------------------

Description

Make a stack of leaflet baselayers for use in shiny apps.

Usage

```
leaflet_basemap(top_layer = "light", bounds = NULL)
```

Arguments

top_layer	The first layer to start in the basemap stack. Either "light", "dark", "street", "satellite", or "ocean". Defaults to "light".
bounds	A bbox object or numeric vector of length four, with xmin, ymin, xmax and ymax values in WGS84 (epsg 4326).

Value

A leaflet object.

Examples

```
leaflet_basemap("dark")
```

```
leaflet_basemap(bounds = c(166.70047, -34.45676, 178.52966, -47.06345))
```

leaflet_sf	<i>Simple feature leaflet map.</i>
------------	------------------------------------

Description

Map of simple features in leaflet that is not coloured.

Usage

```
leaflet_sf(data, popup_vars_vctr = NULL, pal = NULL, size_point = 2,  
           size_line = 2, alpha = 0.9, basemap = "light", title = NULL,  
           col_labels_dp = 1, map_id = "map")
```


Arguments

<code>data</code>	An sf object of geometry type point/multipoint, linestring/multilinestring or polygon/multipolygon geometry type. Required input.
<code>popup_vars_vctr</code>	Vector of quoted variable names to include in the popup. If NULL, defaults to making a leafpop::popupTable of all columns.
<code>pal</code>	Character vector of hex codes.
<code>size_point</code>	Size of points (i.e. radius). Defaults to 2.
<code>size_line</code>	Size of lines around features (i.e. weight). Defaults to 2.
<code>alpha</code>	The opacity of the fill within features (i.e. fillOpacity). Defaults to 0.9.
<code>basemap</code>	The underlying basemap. Either "light", "dark", "satellite", "street", or "ocean". Defaults to "light". Only applicable where shiny equals FALSE.
<code>title</code>	A title string that will be wrapped into the legend.
<code>col_labels_dp</code>	Select the appropriate number of decimal places for numeric variable auto legend labels. Defaults to 1.
<code>map_id</code>	The shiny map id for a leaflet map within a shiny app. For standard single-map apps, id "map" should be used. For dual-map apps, "map1" and "map2" should be used. Defaults to "map".

Value

A leaflet object.

Examples

```
leaflet_sf(example_sf_point)
leaflet_sf(example_sf_polygon)
```

<code>leaflet_sf_col</code>	<i>Simple feature leaflet map that is coloured.</i>
-----------------------------	---

Description

Map of simple features in leaflet that is coloured.

Usage

```
leaflet_sf_col(data, col_var, text_var = NULL, popup_vars_vctr = NULL,
  pal = NULL, pal_rev = FALSE, size_point = 2, size_line = 2,
  alpha = 0.9, basemap = "light", title = NULL, col_cuts = NULL,
  col_labels_dp = NULL, col_method = NULL, col_na = TRUE,
  map_id = "map")
```

Arguments

<code>data</code>	An sf object of geometry type point/multipoint, linestring/multilinestring or polygon/multipolygon geometry type. Required input.
<code>col_var</code>	Unquoted variable to colour the features by. Required input.
<code>text_var</code>	Unquoted variable to label the features by. If NULL, defaults to using the colour variable.
<code>popup_vars_vctr</code>	Vector of quoted variable names to include in the popup. If NULL, defaults to making a leafpop::popupTable of all columns.
<code>pal</code>	Character vector of hex codes.
<code>pal_rev</code>	Reverses the palette. Defaults to FALSE.
<code>size_point</code>	Size of points (i.e. radius). Defaults to 2.
<code>size_line</code>	Size of lines around features (i.e. weight). Defaults to 2.
<code>alpha</code>	The opacity of the fill within features (i.e. fillOpacity). Defaults to 0.1.
<code>basemap</code>	The underlying basemap. Either "light", "dark", "satellite", "street", or "ocean". Defaults to "light". Only applicable where shiny equals FALSE.
<code>title</code>	A title string that will be wrapped into the legend.
<code>col_cuts</code>	A vector of cuts to colour a numeric variable. If "bin" is selected, the first number in the vector should be either -Inf or 0, and the final number Inf. If "quantile" is selected, the first number in the vector should be 0 and the final number should be 1. Defaults to quartiles.
<code>col_labels_dp</code>	For numeric colour variables, the number of decimal places. Defaults to 1 for "quantile" col_method, and the lowest dp within the col_cuts vector for "bin".
<code>col_method</code>	The method of colouring features, either "bin", "quantile" or "category." if categorical colour variable, NULL results in "category". If numeric variable, defaults to "quantile". Note all numeric variables are cut to be inclusive of the min in the range, and exclusive of the max in the range (except for the final bucket which includes the highest value).
<code>col_na</code>	TRUE or FALSE of whether to include col_var NA values. Defaults to TRUE.
<code>map_id</code>	The shiny map id for a leaflet map within a shiny app. For standard single-map apps, id "map" should be used. For dual-map apps, "map1" and "map2" should be used. Defaults to "map".

Value

A leaflet object.

Examples

```
leaflet_sf_col(example_sf_point,
               col_var = trend_category)
```

```
leaflet_sf_col(example_sf_polygon,
               col_var = density,
               col_method = "quantile",
```

```

col_cuts = c(0, 0.25, 0.5, 0.75, 0.95, 1))

leaflet_sf_col(example_sf_polygon,
  col_var = density,
  col_method = "bin",
  col_cuts = c(0, 10, 50, 100, 150, 200, Inf))

```

mutate_text	<i>Add a quick tooltip text column to data.</i>
-------------	---

Description

Add a column of tooltip text which is automatically created based on column names and values.

Usage

```
mutate_text(data, text_vars_vctr = NULL, comma = FALSE)
```

Arguments

data	A tibble or dataframe. Required input.
text_vars_vctr	A vector of quoted variables to include in the tooltip. Defaults to NULL, which adds all variables in.
comma	TRUE or FALSE of whether to convert numeric values to character values with comma separators.

Value

A vector of labels.

Examples

```

library(dplyr)

plot_data <- slice_sample(ggplot2::diamonds, prop = 0.05) %>%
  mutate_text(c("carat", "price"), comma = TRUE)

plot <- gg_point(data = plot_data,
  x_var = carat,
  y_var = price,
  text_var = text,
  title = "Diamond price by carat",
  x_title = "Carat",
  y_title = "Price ($US thousands)")

plotly::ggplotly(plot, tooltip = "text")

```

nz	<i>New Zealand coastline.</i>
----	-------------------------------

Description

Simplified New Zealand coastline boundary, excluding the Chatham Islands.

Usage

```
nz
```

Format

An sf object.

Examples

```
nz  
gg_sf(nz)  
gg_sf(dplyr::slice(nz, 2, 4))  
gg_sf(dplyr::slice(nz, 1, 3, 5:7))
```

pal_d3_reorder	<i>D3 palette reordered.</i>
----------------	------------------------------

Description

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

Usage

```
pal_d3_reorder(col_n)
```

Arguments

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

Value

A vector of hex codes.

Examples

```
scales::show_col(pal_d3_reorder(9))
```

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

Description

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

Usage

```
pal_na(col_n = 1)
```

Arguments

col_n The number of NA colours. Doesn't do anything, but provided for consistency.

Value

A vector of one hex code.

Examples

```
scales::show_col(pal_na(9))
```

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

Description

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

Usage

```
pal_viridis_reorder(col_n)
```

Arguments

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

Value

A vector of hex codes.

Examples

```
scales::show_col(pal_viridis_reorder(9))
```

plotly_camera	<i>Remove plotly buttons from the mode bar, other than the camera.</i>
---------------	--

Description

Remove plotly buttons from the mode bar, other than the camera and plotly logo.

Usage

```
plotly_camera(plotly, logo = FALSE)
```

Arguments

plotly	A plotly object. Required input.
logo	TRUE or FALSE of whether to display the plotly logo. Defaults to FALSE.

Examples

```
plot_data <- dplyr::sample_frac(ggplot2::diamonds, 0.05)

plot <- gg_point(data = plot_data,
                x_var = carat,
                y_var = price)

plotly::ggplotly(plot) %>%
  plotly_camera()
```

plotly_col_legend	<i>Change colour legend elements order.</i>
-------------------	---

Description

Change colour legend elements order.

Usage

```
plotly_col_legend(plotly, rev = FALSE, order = NULL)
```

Arguments

plotly	A plotly object. Required input.
rev	TRUE or FALSE of whether to reverse the order of elements.
order	A numeric vector specifying the order of elements.

Examples

```

library(dplyr)
plot_data <- dplyr::sample_frac(ggplot2::diamonds, 0.05)

plot <- gg_point_col(data = plot_data,
                    x_var = carat,
                    y_var = price,
                    col_var = color)

plotly::ggplotly(plot)

plotly::ggplotly(plot) %>%
  plotly_col_legend(rev = TRUE)

plotly::ggplotly(plot) %>%
  plotly_col_legend(order = c(2, 1, 3:7))

```

run_template	<i>Run shiny template with option to download.</i>
--------------	--

Description

Run shiny template with option to download.

Usage

```
run_template(template = "template1", ...)
```

Arguments

template	template name. Available templates are "template1" for a graph and table, and "template2" and "template3" also providing maps. Defaults to "template1".
...	passed to shiny::runApp

theme_map	<i>Theme for maps.</i>
-----------	------------------------

Description

Theme for maps.

Usage

```
theme_map(font_family = "", font_size_title = 11,
          font_size_body = 10)
```

Arguments

font_family Font family to use. Defaults to "".
font_size_title Font size for the title text. Defaults to 11.
font_size_body Font size for all text other than the title. Defaults to 10.

Value

A ggplot theme.

Examples

```
library(ggplot2)

ggplot() +
  theme_map("Courier", 9, 7) +
  ggtitle("This is a title of a font family and size")
```

theme_xy_gridlines *Theme for graphs with x and y gridlines.*

Description

Theme for graphs with x and y gridlines.

Usage

```
theme_xy_gridlines(font_family = "", font_size_title = 11,
  font_size_body = 10)
```

Arguments

font_family Font family to use. Defaults to "".
font_size_title Font size for the title text. Defaults to 11.
font_size_body Font size for all text other than the title. Defaults to 10.

Value

A ggplot theme.

Examples

```
library(ggplot2)

ggplot() +
  theme_xy_gridlines("Courier", 9, 7) +
  ggtitle("This is a title of a font family and size")
```

theme_x_gridlines *Theme for graphs with vertical x gridlines.*

Description

Theme for graphs with vertical x gridlines.

Usage

```
theme_x_gridlines(font_family = "", font_size_title = 11,  
  font_size_body = 10)
```

Arguments

font_family Font family to use. Defaults to "".

font_size_title Font size for the title text. Defaults to 11.

font_size_body Font size for all text other than the title. Defaults to 10.

Value

A ggplot theme.

Examples

```
library(ggplot2)  
  
ggplot() +  
  theme_x_gridlines("Courier", 9, 7) +  
  ggtitle("This is a title of a font family and size")
```

theme_y_gridlines *Theme for graphs with horizontal y gridlines.*

Description

Theme for graphs with horizontal y gridlines.

Usage

```
theme_y_gridlines(font_family = "", font_size_title = 11,  
  font_size_body = 10)
```

Arguments

`font_family` Font family to use. Defaults to "".

`font_size_title` Font size for the title text. Defaults to 11.

`font_size_body` Font size for all text other than the title. Defaults to 10.

Value

A ggplot theme.

Examples

```
library(ggplot2)

ggplot() +
  theme_y_gridlines("Courier", 9, 7) +
  ggtitle("This is a title of a font family and size")
```

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