

Package ‘simplevis’

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Type Package

Title Simple 'ggplot2' and 'leaflet' Visualisation with Less
Brainpower

Version 5.0.0

Description Wrapper functions to make 'ggplot2' and 'leaflet' visualisation easier with less brain-
power required.

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

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

Encoding UTF-8

LazyData true

Depends R (>= 3.5.0)

Imports dplyr, forcats, ggplot2, htmlwidgets, leaflet, leafem,
leafpop, lubridate, magrittr, purrr, rlang, scales, sf,
snakecase, stars, stringr, tidyr, tidyselect, viridis

Suggests DT, glue, knitr, palmerpenguins, pals, plotly, rgdal, rgeos,
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VignetteBuilder knitr

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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

example_stars	<i>Example stars object.</i>
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Description

Example stars object.

Usage

```
example_stars
```

Format

A stars object.

Examples

```
library(stars)
example_stars
```

gg_bar	<i>Vertical bar ggplot.</i>
--------	-----------------------------

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 = NULL,  
  alpha = 1,  
  size_line = 0.5,  
  title = NULL,  
  title_wrap = 80,  
  subtitle = NULL,  
  subtitle_wrap = 80,  
  x_balance = FALSE,  
  x_expand = NULL,  
  x_labels = NULL,  
  x_na_rm = FALSE,
```

```

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 = scales::comma,
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

<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>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.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 75.
<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> .

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 named vector to modify x scale labels. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep x labels untransformed.
x_na_rm	TRUE or FALSE of whether to include x_var NA values. Defaults to FALSE.
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 named vector to modify y scale labels. 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 FALSE.
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\$isMobile.

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	<i>Vertical bar ggplot that is coloured.</i>
------------	----------------------------------------------

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_na = "#7F7F7F",
```

```
pal_rev = FALSE,
width = NULL,
alpha = 1,
size_line = 0.5,
title = NULL,
title_wrap = 80,
subtitle = NULL,
subtitle_wrap = 80,
x_balance = FALSE,
x_expand = NULL,
x_labels = NULL,
x_na_rm = FALSE,
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 = scales::comma,
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_cuts = NULL,
col_label_digits = NULL,
col_labels = NULL,
col_method = NULL,
col_na_rm = FALSE,
col_pretty_n = 5,
col_rev = FALSE,
col_right_closed = 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). 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 or numeric 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_na</code>	The hex code or name of the NA colour to be used.
<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.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 75.
<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 named vector to modify x scale labels. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
<code>x_na_rm</code>	TRUE or FALSE of whether to include <code>x_var</code> NA values. Defaults to FALSE.
<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 <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 named vector to modify y scale labels. 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 y_var NA values. Defaults to FALSE.
<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 y_var. 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_label_digits</code>	If numeric colour method, the number of digits to round the labels to. Only applicable where <code>col_labels</code> equals NULL.
<code>col_labels</code>	A function or named vector to modify colour scale labels. Defaults to <code>stringr::str_to_sentence</code> for categorical colour variables and <code>scales::comma</code> for numeric colour variables. Use <code>ggplot2::waiver()</code> to keep colour labels untransformed.
<code>col_method</code>	The method of colouring features, either "bin", "quantile" or "category." If numeric, defaults to "bin".
<code>col_na_rm</code>	TRUE or FALSE of whether to include col_var NA values. Defaults to FALSE.
<code>col_pretty_n</code>	For a numeric colour variable of "bin" col_method, the desired number of intervals on the colour scale, as calculated by the pretty algorithm. Defaults to 5.
<code>col_rev</code>	TRUE or FALSE of whether the colour scale is reversed. Defaults to FALSE. Defaults to FALSE.
<code>col_right_closed</code>	For a numeric colour variable, TRUE or FALSE of whether bins or quantiles are to be cut right-closed. 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.
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, 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	<i>Vertical bar ggplot that is coloured and faceted.</i>
------------------	----------------------------------------------------------

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_na = "#7F7F7F",  
  pal_rev = FALSE,  
  width = NULL,  
  alpha = 1,  
  size_line = 0.5,  
  title = NULL,  
  title_wrap = 80,  
  subtitle = NULL,  
  subtitle_wrap = 80,  
  x_balance = FALSE,  
  x_expand = NULL,  
  x_labels = NULL,  
  x_na_rm = FALSE,  
  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 = scales::comma,  
  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_cuts = NULL,  
  col_label_digits = NULL,  
  col_labels = NULL,  
  col_method = NULL,  
  col_na_rm = FALSE,  
  col_pretty_n = 5,  
  col_rev = FALSE,  
  col_right_closed = TRUE,
```

```

col_title = NULL,
col_title_wrap = 25,
facet_labels = stringr::str_to_sentence,
facet_na_rm = FALSE,
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 or numeric 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_na</code>	The hex code or name of the NA colour to be used.
<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.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 75.
<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 named vector to modify x scale labels. 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_rm</code>	TRUE or FALSE of whether to include <code>x_var</code> NA values. Defaults to FALSE.
<code>x_pretty_n</code>	For a numeric or date <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_rev</code>	For a categorical variable, TRUE or FALSE of whether the <code>x</code> 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 <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_balance</code>	For a numeric <code>y</code> variable, add balance to the <code>y</code> scale so that zero is in the centre of the <code>y</code> scale.
<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 named vector to modify <code>y</code> scale labels. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep <code>y</code> labels untransformed.
<code>y_na</code>	TRUE or FALSE of whether to include <code>y_var</code> NA values. Defaults to FALSE.
<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_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_trans</code>	For a numeric <code>y</code> variable, a string specifying a transformation for the <code>y</code> scale, such as "log10" or "sqrt". Defaults to "identity".
<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 TRUE.
<code>y_zero_line</code>	For a numeric <code>y</code> variable, TRUE or FALSE 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_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_label_digits</code>	If numeric colour method, the number of digits to round the labels to. Only applicable where <code>col_labels</code> equals NULL.

<code>col_labels</code>	A function or named vector to modify colour scale labels. Defaults to <code>stringr::str_to_sentence</code> for categorical colour variables and <code>scales::comma</code> for numeric colour variables. Use <code>ggplot2::waiver()</code> to keep colour labels untransformed.
<code>col_method</code>	The method of colouring features, either "bin", "quantile" or "category." If numeric, defaults to "bin".
<code>col_na_rm</code>	TRUE or FALSE of whether to include <code>col_var</code> NA values. Defaults to FALSE.
<code>col_pretty_n</code>	For a numeric colour variable of "bin" <code>col_method</code> , the desired number of intervals on the colour scale, as calculated by the pretty algorithm. Defaults to 5.
<code>col_rev</code>	TRUE or FALSE of whether the colour scale is reversed. Defaults to FALSE. Defaults to FALSE.
<code>col_right_closed</code>	For a numeric colour variable, TRUE or FALSE of whether bins or quantiles are to be cut right-closed. 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>	A function or named vector to modify facet scale labels. Defaults to converting labels to sentence case. Use <code>ggplot2::waiver()</code> to keep facet labels untransformed.
<code>facet_na_rm</code>	TRUE or FALSE of whether to include <code>facet_var</code> NA values. Defaults to FALSE.
<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_rm = 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 = NULL,
  alpha = 1,
  size_line = 0.5,
  title = NULL,
  title_wrap = 80,
  subtitle = NULL,
  subtitle_wrap = 80,
  x_balance = FALSE,
  x_expand = NULL,
  x_labels = NULL,
  x_na_rm = FALSE,
  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 = scales::comma,
```



```

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 = stringr::str_to_sentence,
facet_na_rm = FALSE,
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>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.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 75.
<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 named vector to modify x scale labels. 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_rm</code>	TRUE or FALSE of whether to include <code>x_var</code> NA values. Defaults to FALSE.
<code>x_pretty_n</code>	For a numeric or date <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_rev</code>	For a categorical variable, TRUE or FALSE of whether the <code>x</code> 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 <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_balance</code>	For a numeric <code>y</code> variable, add balance to the <code>y</code> scale so that zero is in the centre of the <code>y</code> scale.
<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 named vector to modify <code>y</code> scale labels. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep <code>y</code> labels untransformed.
<code>y_na</code>	TRUE or FALSE of whether to include <code>y_var</code> NA values. Defaults to FALSE.
<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_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_trans</code>	For a numeric <code>y</code> variable, a string specifying a transformation for the <code>y</code> scale, such as "log10" or "sqrt". Defaults to "identity".
<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 TRUE.
<code>y_zero_line</code>	For a numeric <code>y</code> variable, TRUE or FALSE 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>facet_labels</code>	A function or named vector to modify facet scale labels. Defaults to converting labels to sentence case. Use <code>ggplot2::waiver()</code> to keep facet labels untransformed.
<code>facet_na_rm</code>	TRUE or FALSE of whether to include <code>facet_var</code> NA values. Defaults to FALSE.
<code>facet_ncol</code>	The number of columns of faceted plots.
<code>facet_nrow</code>	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) %>%
  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 = 80,
subtitle = NULL,
subtitle_wrap = 80,
x_balance = FALSE,
x_labels = NULL,
x_na_rm = FALSE,
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 = scales::comma,
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 min, lower, middle, upper, and max 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.

size_point	The size of the outliers. Defaults to 1.
title	Title string.
title_wrap	Number of characters to wrap the title to. Defaults to 75.
subtitle	Subtitle string.
subtitle_wrap	Number of characters to wrap the subtitle to. Defaults to 75.
x_balance	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 named vector to modify x scale labels. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
x_na_rm	TRUE or FALSE of whether to include x_var NA values. Defaults to FALSE.
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_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_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> <code>expand</code> 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 named vector to modify y scale labels. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep y labels untransformed.
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".

<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.
<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

```
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(body_mass_g, ~ list(
    rlang::set_names(
      boxplot.stats(.x)$stats,
      c('min', 'lower', 'middle', 'upper', 'max')
    )
  )))

plot_data

plot_data %>%
  tidyr::unnest_wider(body_mass_g)

gg_boxplot(plot_data,
           x_var = species,
           y_var = body_mass_g,
           stat = "identity",
           y_pretty_n = 4)
```

gg_boxplot_col	<i>Boxplot ggplot that is coloured</i>
----------------	----------------------------------------

Description

Boxplot ggplot that is coloured

Usage

```
gg_boxplot_col(  
  data,  
  x_var,  
  y_var = NULL,  
  col_var,  
  stat = "boxplot",  
  pal = NULL,  
  pal_na = "#7F7F7F",  
  pal_rev = FALSE,  
  width = 0.5,  
  alpha = 1,  
  size_line = 0.5,  
  size_point = 1,  
  title = NULL,  
  title_wrap = 80,  
  subtitle = NULL,  
  subtitle_wrap = 80,  
  x_balance = FALSE,  
  x_labels = NULL,  
  x_pretty_n = 6,  
  x_expand = NULL,  
  x_na_rm = 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 = scales::comma,  
  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 = stringr::str_to_sentence,
```

```

col_na_rm = 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). 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_na</code>	The hex code or name of the NA colour to be used.
<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.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 75.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 75.
<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 named vector to modify x scale labels. 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> <code>expand</code> argument in <code>ggplot2</code> scales functions.
<code>x_na_rm</code>	TRUE or FALSE of whether to include <code>x_var</code> NA values. 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 named vector to modify y scale labels. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep y labels untransformed.
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.
x_rev	For a categorical x variable, TRUE or FALSE of whether the x 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_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 named vector to modify colour scale labels. Defaults to stringr::str_to_sentence. Use ggplot2::waiver() to keep colour labels untransformed.
col_na_rm	TRUE or FALSE of whether to include col_var NA values. 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. Not applicable where mobile equals TRUE.
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_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_na = "#7F7F7F",
  pal_rev = FALSE,
  width = 0.5,
  alpha = 1,
  size_line = 0.5,
  size_point = 1,
  title = NULL,
  title_wrap = 80,
  subtitle = NULL,
  subtitle_wrap = 80,
  x_balance = FALSE,
  x_labels = NULL,
  x_na_rm = FALSE,
  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 = scales::comma,
  y_pretty_n = 4,
  y_title = NULL,
  y_title_wrap = 50,
  y_trans = "identity",
  y_zero = FALSE,
  y_zero_line = NULL,
  col_labels = stringr::str_to_sentence,
  col_na_rm = FALSE,
  col_title = NULL,
  col_title_wrap = 25,
  facet_labels = stringr::str_to_sentence,
  facet_na_rm = FALSE,
  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.

<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_na</code>	The hex code or name of the NA colour to be used.
<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.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 75.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 75.
<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 named vector to modify x scale labels. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
<code>x_na_rm</code>	TRUE or FALSE of whether to include <code>x_var</code> NA values. Defaults to FALSE.
<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_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_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 named vector to modify y scale labels. 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 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_labels</code>	A function or named vector to modify colour scale labels. Defaults to <code>stringr::str_to_sentence</code> . Use <code>ggplot2::waiver()</code> to keep colour labels untransformed.
<code>col_na_rm</code>	TRUE or FALSE of whether to include <code>col_var</code> NA values. 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. Not applicable where <code>mobile</code> equals TRUE.
<code>facet_labels</code>	A function or named vector to modify facet scale labels. Defaults to converting labels to sentence case. Use <code>ggplot2::waiver()</code> to keep facet labels untransformed.
<code>facet_na_rm</code>	TRUE or FALSE of whether to include <code>facet_var</code> NA values. Defaults to FALSE.
<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 %>%
  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 = 80,
subtitle = NULL,
subtitle_wrap = 80,
x_balance = FALSE,
x_expand = NULL,
x_labels = NULL,
x_na_rm = FALSE,
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 = scales::comma,
y_pretty_n = 4,
y_title = NULL,
y_title_wrap = 50,
y_trans = "identity",
y_zero = FALSE,
y_zero_line = NULL,
facet_labels = stringr::str_to_sentence,
facet_na_rm = FALSE,
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 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>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>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.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 75.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 75.
<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 named vector to modify x scale labels. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
<code>x_na_rm</code>	TRUE or FALSE of whether to include <code>x_var</code> NA values. Defaults to FALSE.
<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 named vector to modify y scale labels. 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 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>	A function or named vector to modify facet scale labels. Defaults to converting labels to sentence case. Use <code>ggplot2::waiver()</code> to keep facet labels untransformed.
<code>facet_na_rm</code>	TRUE or FALSE of whether to include <code>facet_var</code> NA values. Defaults to FALSE.
<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	<i>Smoothed density ggplot.</i>
------------	---------------------------------

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 = 80,  
  subtitle = NULL,  
  subtitle_wrap = 80,  
  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

<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>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>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.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 75.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 75.
<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 named vector to modify x scale labels. 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 6.
<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 named vector to modify y scale labels. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> 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	<i>Smoothed density ggplot that is coloured.</i>
----------------	--------------------------------------------------

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_na = "#7F7F7F",
pal_rev = FALSE,
alpha = 0.1,
size_line = 0.5,
title = NULL,
title_wrap = 80,
subtitle = NULL,
subtitle_wrap = 80,
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 = stringr::str_to_sentence,
col_na_rm = FALSE,
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>col_var</code>	Unquoted categorical variable to colour density areas. 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_na</code>	The hex code or name of the NA colour to be used.
<code>pal_rev</code>	Reverses the palette. Defaults to <code>FALSE</code> .
<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.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 75.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 75.
<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 named vector to modify x scale labels. 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 x variable, the desired number of intervals on the x scale, as calculated by the pretty algorithm. Defaults to 6.
<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_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_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 named vector to modify y scale labels. If <code>NULL</code> , 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 5.
<code>y_title</code>	y scale title string. Defaults to <code>NULL</code> , 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 named vector to modify colour scale labels. Use <code>ggplot2::waiver()</code> to keep colour labels untransformed.

col_na_rm	TRUE or FALSE of whether to include col_var NA values. Defaults to FALSE.
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_na = "#7F7F7F",  
pal_rev = FALSE,  
alpha = 0.1,  
size_line = 0.5,  
title = NULL,  
title_wrap = 80,  
subtitle = NULL,  
subtitle_wrap = 80,  
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 = stringr::str_to_sentence,  
col_na_rm = FALSE,  
col_rev = FALSE,  
col_title = NULL,  
col_title_wrap = 25,  
facet_labels = stringr::str_to_sentence,  
facet_na_rm = FALSE,  
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.

col_var	Unquoted categorical variable to colour density areas. 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.
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_na	The hex code or name of the NA colour to be used.
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.
title_wrap	Number of characters to wrap the title to. Defaults to 75.
subtitle	Subtitle string.
subtitle_wrap	Number of characters to wrap the subtitle to. Defaults to 75.
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 named vector to modify x scale labels. 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 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_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 named vector to modify y scale labels. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() 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 named vector to modify colour scale labels. Use <code>ggplot2::waiver()</code> to keep colour labels untransformed.
<code>col_na_rm</code>	TRUE or FALSE of whether to include <code>col_var</code> NA values. Defaults to FALSE.
<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>	A function or named vector to modify facet scale labels. Defaults to converting labels to sentence case. Use <code>ggplot2::waiver()</code> to keep facet labels untransformed.
<code>facet_na_rm</code>	TRUE or FALSE of whether to include <code>facet_var</code> NA values. Defaults to FALSE.
<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_rm = 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 = 80,  
  subtitle = NULL,  
  subtitle_wrap = 80,  
  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 = stringr::str_to_sentence,  
  facet_na_rm = FALSE,  
  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>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>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.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 75.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 75.
<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 named vector to modify x scale labels. 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 named vector to modify y scale labels. 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>facet_labels</code>	A function or named vector to modify facet scale labels. Defaults to converting labels to sentence case. Use <code>ggplot2::waiver()</code> to keep facet labels untransformed.
<code>facet_na_rm</code>	TRUE or FALSE of whether to include facet_var NA values. Defaults to FALSE.
<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_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 = NULL,  
  alpha = 1,  
  size_line = 0.5,  
  title = NULL,  
  title_wrap = 75,  
  subtitle = NULL,  
  subtitle_wrap = 75,  
  x_balance = FALSE,  
  x_expand = NULL,  
  x_gridlines_minor = FALSE,  
  x_labels = scales::comma,  
  x_na_rm = FALSE,  
  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_rm = FALSE,  
  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 = 75,  
  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.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 60.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 60.
<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 named vector to modify x scale labels. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
<code>x_na_rm</code>	TRUE or FALSE of whether to include <code>x_var</code> NA values. Defaults to FALSE.
<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.

<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 named vector to modify y scale labels. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep y labels untransformed.
<code>y_na_rm</code>	TRUE or FALSE of whether to include <code>y_var</code> NA values. Defaults to FALSE.
<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 6.
<code>y_reorder</code>	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.
<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>caption</code>	Caption title string.
<code>caption_wrap</code>	Number of characters to wrap the caption to. Defaults to 75.
<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

```
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_na = "#7F7F7F",
  pal_rev = FALSE,
  width = NULL,
  alpha = 1,
  size_line = 0.5,
  title = NULL,
  title_wrap = 75,
  subtitle = NULL,
  subtitle_wrap = 75,
  x_balance = FALSE,
  x_expand = NULL,
  x_gridlines_minor = FALSE,
  x_labels = scales::comma,
  x_na_rm = FALSE,
  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_rm = FALSE,
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_cuts = NULL,
col_label_digits = NULL,
col_labels = NULL,
col_method = NULL,
col_na_rm = FALSE,
col_pretty_n = 5,
col_rev = FALSE,
col_right_closed = TRUE,
col_title = NULL,
col_title_wrap = 25,
caption = NULL,
caption_wrap = 75,
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 or numeric 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 <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_na</code>	The hex code or name of the NA colour to be used.
<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.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 60.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 60.
<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 ggplot2 expand argument in ggplot2 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 named vector to modify x scale labels. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
<code>x_na_rm</code>	TRUE or FALSE of whether to include <code>x_var</code> NA values. Defaults to FALSE.
<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 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.
<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 ggplot2 expand argument in ggplot2 scales functions.
<code>y_labels</code>	A function or named vector to modify y scale labels. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep y labels untransformed.
<code>y_na_rm</code>	TRUE or FALSE of whether to include <code>y_var</code> NA values. Defaults to FALSE.
<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_reorder</code>	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.
<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>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_label_digits</code>	If numeric colour method, the number of digits to round the labels to. Only applicable where <code>col_labels</code> equals NULL.
<code>col_labels</code>	A function or named vector to modify colour scale labels. Defaults to <code>stringr::str_to_sentence</code> for categorical colour variables and <code>scales::comma</code> for numeric colour variables. Use <code>ggplot2::waiver()</code> to keep colour labels untransformed.
<code>col_method</code>	The method of colouring features, either "bin", "quantile" or "category." If numeric, defaults to "bin".
<code>col_na_rm</code>	TRUE or FALSE of whether to include <code>col_var</code> NA values. Defaults to FALSE.
<code>col_pretty_n</code>	For a numeric colour variable of "bin" <code>col_method</code> , the desired number of intervals on the colour scale, as calculated by the pretty algorithm. Defaults to 5.
<code>col_rev</code>	TRUE or FALSE of whether the colour scale is reversed. Defaults to FALSE. Defaults to FALSE.
<code>col_right_closed</code>	For a numeric colour variable, TRUE or FALSE of whether bins or quantiles are to be cut right-closed. 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>caption</code>	Caption title string.
<code>caption_wrap</code>	Number of characters to wrap the caption to. Defaults to 75.
<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

```
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 coloured and faceted.*

Description

Horizontal bar ggplot that is coloured and faceted.

Usage

```
gg_hbar_col_facet(
  data,
  x_var,
  y_var,
  col_var,
  facet_var,
  text_var = NULL,
  position = NULL,
  pal = NULL,
  pal_na = "#7F7F7F",
  pal_rev = FALSE,
  width = NULL,
  alpha = 1,
  size_line = 0.5,
```

```
title = NULL,  
title_wrap = 75,  
subtitle = NULL,  
subtitle_wrap = 75,  
x_balance = FALSE,  
x_expand = NULL,  
x_gridlines_minor = FALSE,  
x_labels = scales::comma,  
x_na_rm = FALSE,  
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_rm = FALSE,  
y_pretty_n = 4,  
y_rev = FALSE,  
y_title = NULL,  
y_title_wrap = 50,  
y_zero = FALSE,  
y_zero_line = NULL,  
col_cuts = NULL,  
col_labels = NULL,  
col_label_digits = NULL,  
col_method = NULL,  
col_na_rm = FALSE,  
col_pretty_n = 5,  
col_rev = FALSE,  
col_right_closed = TRUE,  
col_title = NULL,  
col_title_wrap = 25,  
facet_labels = stringr::str_to_sentence,  
facet_na_rm = FALSE,  
facet_ncol = NULL,  
facet_nrow = NULL,  
facet_scales = "fixed",  
caption = NULL,  
caption_wrap = 75,  
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 or numeric 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_na</code>	The hex code or name of the NA colour to be used.
<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.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 60.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 60.
<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 named vector to modify x scale labels. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
<code>x_na_rm</code>	TRUE or FALSE of whether to include <code>x_var</code> NA values. Defaults to FALSE.
<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.
<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 named vector to modify y scale labels. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep y labels untransformed.
<code>y_na_rm</code>	TRUE or FALSE of whether to include <code>y_var</code> NA values. Defaults to FALSE.
<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 6.
<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>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 named vector to modify colour scale labels. Defaults to <code>stringr::str_to_sentence</code> for categorical colour variables and <code>scales::comma</code> for numeric colour variables. Use <code>ggplot2::waiver()</code> to keep colour labels untransformed.
<code>col_label_digits</code>	If numeric colour method, the number of digits to round the labels to. Only applicable where <code>col_labels</code> equals NULL.
<code>col_method</code>	The method of colouring features, either "bin", "quantile" or "category." If numeric, defaults to "bin".
<code>col_na_rm</code>	TRUE or FALSE of whether to include <code>col_var</code> NA values. Defaults to FALSE.
<code>col_pretty_n</code>	For a numeric colour variable of "bin" <code>col_method</code> , the desired number of intervals on the colour scale, as calculated by the pretty algorithm. Defaults to 5.
<code>col_rev</code>	TRUE or FALSE of whether the colour scale is reversed. Defaults to FALSE. Defaults to FALSE.

<code>col_right_closed</code>	For a numeric colour variable, TRUE or FALSE of whether bins or quantiles are to be cut right-closed. 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>	A function or named vector to modify facet scale labels. Defaults to converting labels to sentence case. Use <code>ggplot2::waiver()</code> to keep facet labels untransformed.
<code>facet_na_rm</code>	TRUE or FALSE of whether to include <code>facet_var</code> NA values. Defaults to FALSE.
<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 75.
<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_hbar_col_facet(plot_data,
  x_var = body_mass_g,
  y_var = species,
  col_var = island,
  facet_var = sex,
  facet_na_rm = FALSE)
```

gg_hbar_facet	<i>Horizontal bar ggplot that is faceted.</i>
---------------	-----------------------------------------------

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 = NULL,  
  alpha = 1,  
  size_line = 0.5,  
  title = NULL,  
  title_wrap = 75,  
  subtitle = NULL,  
  subtitle_wrap = 75,  
  x_balance = FALSE,  
  x_expand = NULL,  
  x_gridlines_minor = FALSE,  
  x_labels = scales::comma,  
  x_na_rm = FALSE,  
  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_rm = FALSE,  
  y_pretty_n = 4,  
  y_rev = FALSE,  
  y_title = NULL,  
  y_title_wrap = 50,  
  y_zero = FALSE,  
  y_zero_line = NULL,  
  facet_labels = stringr::str_to_sentence,  
  facet_na_rm = FALSE,  
  facet_ncol = NULL,  
)
```

```

facet_nrow = NULL,
facet_scales = "fixed",
caption = NULL,
caption_wrap = 75,
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.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 60.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 60.
<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 named vector to modify x scale labels. 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_rm</code>	TRUE or FALSE of whether to include <code>x_var</code> NA values. Defaults to FALSE.
<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 named vector to modify y scale labels. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep y labels untransformed.
<code>y_na_rm</code>	TRUE or FALSE of whether to include <code>y_var</code> NA values. Defaults to FALSE.
<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>	A function or named vector to modify facet scale labels. Defaults to converting labels to sentence case. Use <code>ggplot2::waiver()</code> to keep facet labels untransformed.
<code>facet_na_rm</code>	TRUE or FALSE of whether to include <code>facet_var</code> NA values. Defaults to FALSE.
<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 75.
<code>font_family</code>	Font family to use. Defaults "".
<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 = 80,
  subtitle = NULL,
  subtitle_wrap = 80,
  x_balance = FALSE,
  x_expand = NULL,
  x_labels = NULL,
  x_na_rm = FALSE,
  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 = scales::comma,
y_na_rm = FALSE,
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>	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>pal</code>	Character vector of hex codes.
<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.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 75.
<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 named vector to modify x scale labels. 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_rm</code>	<code>TRUE</code> or <code>FALSE</code> of whether to include <code>x_var</code> NA values. Defaults to <code>FALSE</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 named vector to modify y scale labels. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep y labels untransformed.
y_na_rm	TRUE or FALSE of whether to include y_var NA values. Defaults to FALSE.
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.
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(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_na = "#7F7F7F",
  pal_rev = FALSE,
  size_point = 1,
  size_line = 0.5,
  title = NULL,
  title_wrap = 80,
  subtitle = NULL,
  subtitle_wrap = 80,
  x_balance = FALSE,
  x_expand = NULL,
  x_labels = NULL,
  x_na_rm = FALSE,
  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 = scales::comma,
y_na_rm = FALSE,
y_pretty_n = 5,
y_title = NULL,
y_title_wrap = 50,
y_trans = "identity",
y_zero = FALSE,
y_zero_line = NULL,
col_labels = stringr::str_to_sentence,
col_na_rm = 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). 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_na</code>	The hex code or name of the NA colour to be used.
<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.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 75.

<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 <code>x</code> variable, add balance to the <code>x</code> 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 <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 named vector to modify <code>x</code> scale labels. If <code>NULL</code> , categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep <code>x</code> labels untransformed.
<code>x_na_rm</code>	<code>TRUE</code> or <code>FALSE</code> of whether to include <code>x_var</code> <code>NA</code> values. Defaults to <code>FALSE</code> .
<code>x_pretty_n</code>	For a numeric or date <code>x</code> variable, the desired number of intervals on the <code>x</code> scale, as calculated by the pretty algorithm. Defaults to 6.
<code>x_rev</code>	For a categorical <code>x</code> variable, <code>TRUE</code> or <code>FALSE</code> of whether the <code>x</code> variable variable is reversed. Defaults to <code>FALSE</code> .
<code>x_title</code>	<code>X</code> 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 <code>x</code> title to. Defaults to 50.
<code>x_zero</code>	For a numeric <code>x</code> variable, <code>TRUE</code> or <code>FALSE</code> of whether the minimum of the <code>x</code> scale is zero. Defaults to <code>FALSE</code> .
<code>x_zero_line</code>	For a numeric <code>x</code> variable, <code>TRUE</code> or <code>FALSE</code> of whether to add a zero reference line to the <code>x</code> 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 <code>y</code> variable, add balance to the <code>y</code> scale so that zero is in the centre of the <code>y</code> scale.
<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>	<code>TRUE</code> or <code>FALSE</code> of whether to add minor gridlines to the <code>y</code> scale. Defaults to <code>FALSE</code> .
<code>y_labels</code>	A function or named vector to modify <code>y</code> scale labels. If <code>NULL</code> , categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep <code>y</code> labels untransformed.
<code>y_na_rm</code>	<code>TRUE</code> or <code>FALSE</code> of whether to include <code>y_var</code> <code>NA</code> values. Defaults to <code>FALSE</code> .
<code>y_pretty_n</code>	For a numeric or date <code>x</code> variable, the desired number of intervals on the <code>x</code> scale, as calculated by the pretty algorithm. Defaults to 5.
<code>y_title</code>	<code>y</code> scale title string. Defaults to <code>NULL</code> , 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_trans</code>	For a numeric <code>y</code> variable, a string specifying a transformation for the <code>y</code> scale, such as "log10" or "sqrt". Defaults to "identity".
<code>y_zero</code>	For a numeric <code>y</code> variable, <code>TRUE</code> or <code>FALSE</code> of whether the minimum of the <code>y</code> scale is zero. Defaults to <code>TRUE</code> .

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 named vector to modify colour scale labels. Use ggplot2::waiver() to keep colour labels untransformed.
col_na_rm	TRUE or FALSE of whether to include col_var NA values. 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. Not applicable where mobile equals TRUE.
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(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_na = "#7F7F7F",  
  pal_rev = FALSE,  
  size_point = 1,  
  size_line = 0.5,  
  title = NULL,  
  title_wrap = 80,  
  subtitle = NULL,  
  subtitle_wrap = 80,  
  x_balance = FALSE,  
  x_expand = NULL,  
  x_labels = NULL,  
  x_na_rm = FALSE,  
  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 = scales::comma,  
  y_na_rm = FALSE,  
  y_pretty_n = 4,  
  y_trans = "identity",  
  y_title = NULL,  
  y_title_wrap = 50,  
  y_zero = FALSE,  
  y_zero_line = NULL,  
  col_labels = stringr::str_to_sentence,
```

```

  col_na_rm = FALSE,
  col_title = NULL,
  col_title_wrap = 25,
  facet_labels = stringr::str_to_sentence,
  facet_na_rm = FALSE,
  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>	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>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>pal_na</code>	The hex code or name of the NA colour to be used.
<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.
<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 named vector to modify x scale labels. 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_rm</code>	<code>TRUE</code> or <code>FALSE</code> of whether to include <code>x_var</code> NA values. Defaults to <code>FALSE</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 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 named vector to modify y scale labels. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep y labels untransformed.
<code>y_na_rm</code>	TRUE or FALSE of whether to include <code>y_var</code> NA values. Defaults to FALSE.
<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 named vector to modify colour scale labels. Use <code>ggplot2::waiver()</code> to keep colour labels untransformed.
<code>col_na_rm</code>	TRUE or FALSE of whether to include <code>col_var</code> NA values. 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.

facet_labels	A function or named vector to modify facet scale labels. Defaults to converting labels to sentence case. Use <code>ggplot2::waiver()</code> to keep facet labels untransformed.
facet_na_rm	TRUE or FALSE of whether to include facet_var NA values. Defaults to FALSE.
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 = 80,  
  subtitle = NULL,  
  subtitle_wrap = 80,  
  x_balance = FALSE,  
  x_expand = NULL,  
  x_labels = NULL,  
  x_na_rm = FALSE,  
  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 = scales::comma,  
  y_na_rm = FALSE,  
  y_pretty_n = 4,  
  y_title = NULL,  
  y_title_wrap = 50,  
  y_trans = "identity",  
  y_zero = FALSE,  
  y_zero_line = NULL,  
  facet_labels = stringr::str_to_sentence,  
  facet_na_rm = FALSE,  
  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>	Unquoted numeric variable to be on the y scale. 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>pal</code>	Character vector of hex codes.
<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.
<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 named vector to modify x scale labels. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
<code>x_na_rm</code>	TRUE or FALSE of whether to include <code>x_var</code> NA values. Defaults to FALSE.
<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 named vector to modify y scale labels. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep y labels untransformed.
<code>y_na_rm</code>	TRUE or FALSE of whether to include <code>y_var</code> NA values. Defaults to FALSE.
<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>	A function or named vector to modify facet scale labels. Defaults to converting labels to sentence case. Use <code>ggplot2::waiver()</code> to keep facet labels untransformed.
<code>facet_na_rm</code>	TRUE or FALSE of whether to include <code>facet_var</code> NA values. Defaults to FALSE.
<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(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 = 80,
  subtitle = NULL,
  subtitle_wrap = 80,
  x_balance = FALSE,
  x_expand = NULL,
  x_gridlines_minor = FALSE,
  x_labels = NULL,
  x_pretty_n = 6,
  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 = scales::comma,
  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>	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.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 75.
<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 named vector to modify x scale labels. 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_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> .

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_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 named vector to modify y scale labels. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep y labels untransformed.
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.
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_point(penguins,
         x_var = bill_length_mm,
         y_var = body_mass_g)
```

gg_point_col

Point ggplot that is coloured.

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_na = "#7F7F7F",
  pal_rev = FALSE,
  x_balance = FALSE,
  x_expand = NULL,
  x_gridlines_minor = FALSE,
  x_labels = NULL,
  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 = scales::comma,
```

```

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_label_digits = NULL,
col_labels = NULL,
col_method = NULL,
col_na_rm = FALSE,
col_pretty_n = 5,
col_right_closed = TRUE,
font_family = "",
font_size_title = NULL,
font_size_body = NULL,
title_wrap = 80,
subtitle_wrap = 80,
x_title_wrap = 50,
y_title_wrap = 50,
col_title_wrap = 25,
caption_wrap = 80,
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>col_var</code>	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_na</code>	The hex code or name of the NA colour to be used.
<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>	TRUE or FALSE of whether to add minor gridlines to the x scale. Defaults to FALSE.
<code>x_labels</code>	A function or named vector to modify x scale labels. 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_rev</code>	For a categorical x variable, TRUE or FALSE of whether the x variable variable is reversed. Defaults to FALSE.
<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 named vector to modify y scale labels. 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_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>title</code>	Title string.
<code>subtitle</code>	Subtitle string.
<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.

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_label_digits	If numeric colour method, the number of digits to round the labels to. Only applicable where col_labels equals NULL.
col_labels	A function or named vector to modify colour scale labels. Defaults to stringr::str_to_sentence for categorical colour variables and scales::comma for numeric colour variables. Use ggplot2::waiver() to keep colour labels untransformed.
col_method	The method of colouring features, either "bin", "quantile" or "category." If numeric, defaults to "bin".
col_na_rm	TRUE or FALSE of whether to include col_var NA values. Defaults to FALSE.
col_pretty_n	For a numeric colour variable of "bin" col_method, the desired number of intervals on the colour scale, as calculated by the pretty algorithm. Defaults to 5.
col_right_closed	For a numeric colour variable, TRUE or FALSE of whether bins or quantiles are to be cut right-closed. 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 75.
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.
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_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_na = "#7F7F7F",
  pal_rev = FALSE,
  title = NULL,
  title_wrap = 80,
  subtitle = NULL,
  subtitle_wrap = 80,
  x_balance = FALSE,
  x_expand = NULL,
  x_gridlines_minor = FALSE,
  x_labels = NULL,
  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 = scales::comma,
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_label_digits = NULL,
col_labels = NULL,
col_method = NULL,
col_na_rm = FALSE,
col_pretty_n = 5,
col_right_closed = TRUE,
col_title = NULL,
col_title_wrap = 25,
facet_labels = stringr::str_to_sentence,
facet_na_rm = FALSE,
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 <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_na</code>	The hex code or name of the NA colour to be used.

<code>pal_rev</code>	Reverses the palette. Defaults to FALSE.
<code>title</code>	Title string.
<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 named vector to modify x scale labels. 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 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 named vector to modify y scale labels. 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 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_label_digits</code>	If numeric colour method, the number of digits to round the labels to. Only applicable where <code>col_labels</code> equals NULL.
<code>col_labels</code>	A function or named vector to modify colour scale labels. Defaults to <code>stringr::str_to_sentence</code> for categorical colour variables and <code>scales::comma</code> for numeric colour variables. Use <code>ggplot2::waiver()</code> to keep colour labels untransformed.
<code>col_method</code>	The method of colouring features, either "bin", "quantile" or "category." If numeric, defaults to "bin".
<code>col_na_rm</code>	TRUE or FALSE of whether to include <code>col_var</code> NA values. Defaults to FALSE.
<code>col_pretty_n</code>	For a numeric colour variable of "bin" <code>col_method</code> , the desired number of intervals on the colour scale, as calculated by the pretty algorithm. Defaults to 5.
<code>col_right_closed</code>	For a numeric colour variable, TRUE or FALSE of whether bins or quantiles are to be cut right-closed. 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.
<code>facet_labels</code>	A function or named vector to modify facet scale labels. Defaults to converting labels to sentence case. Use <code>ggplot2::waiver()</code> to keep facet labels untransformed.
<code>facet_na_rm</code>	TRUE or FALSE of whether to include <code>facet_var</code> NA values. Defaults to FALSE.
<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_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 = 80,
  subtitle = NULL,
  subtitle_wrap = 80,
  x_balance = FALSE,
  x_expand = NULL,
  x_gridlines_minor = FALSE,
  x_labels = NULL,
  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 = scales::comma,
y_pretty_n = 4,
y_title = NULL,
y_title_wrap = 50,
y_trans = "identity",
y_zero = FALSE,
y_zero_line = NULL,
facet_labels = stringr::str_to_sentence,
facet_na_rm = FALSE,
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>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 "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.
<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_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 named vector to modify x scale labels. 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 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_gridlines_minor</code>	TRUE or FALSE of whether to add minor gridlines to the y scale. 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 named vector to modify y scale labels. 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 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	A function or named vector to modify facet scale labels. Defaults to converting labels to sentence case. Use <code>ggplot2::waiver()</code> to keep facet labels untransformed.
facet_na_rm	TRUE or FALSE of whether to include facet_var NA values. Defaults to FALSE.
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_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 = NULL,
```

```

    pal = NULL,
    borders = NULL,
    borders_on_top = NULL,
    borders_pal = "#7F7F7F",
    borders_size = 0.2,
    title = NULL,
    title_wrap = 80,
    subtitle = NULL,
    subtitle_wrap = 80,
    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 opacity of features. Defaults to 1 for points/lines, or 0.5 for polygons.
<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>naturalearth</code> package is a useful source of country and state boundaries.
<code>borders_on_top</code>	TRUE or FALSE as to whether the borders are on top of the sf object supplied to the data argument. Defaults to TRUE for points and lines, but FALSE for polygons..
<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.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 75.
<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.
<code>font_family</code>	Font family to use. Defaults to "".
<code>font_size_title</code>	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(example_sf_point,  
       borders = nz)
```

<code>gg_sf_col</code>	<i>Simple feature ggplot map that is coloured.</i>
------------------------	----------------------------------------------------

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_na = "#7F7F7F",  
  pal_rev = FALSE,  
  size_point = 1,  
  size_line = 0.5,  
  alpha = NULL,  
  borders = NULL,  
  borders_on_top = NULL,  
  borders_pal = "#7F7F7F",  
  borders_size = 0.2,  
  title = NULL,  
  title_wrap = 80,  
  subtitle = NULL,  
  subtitle_wrap = 80,  
  col_cuts = NULL,  
  col_label_digits = NULL,  
  col_labels = NULL,  
  col_na_rm = FALSE,  
  col_pretty_n = 5,
```

```

col_method = NULL,
col_right_closed = 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 sf object with defined coordinate reference system. Required input.
<code>col_var</code>	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 NULL.
<code>pal</code>	Character vector of hex codes. Defaults to NULL, which selects the colorbrewer Set1 or viridis.
<code>pal_na</code>	The hex code or name of the NA colour to be used.
<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 features. Defaults to 1 for points/lines, or 0.95 for polygons.
<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_on_top</code>	TRUE or FALSE as to whether the borders are on top of the sf object supplied to the data argument. Defaults to TRUE for points and lines, but FALSE for polygons..
<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.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 75.
<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>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_label_digits</code>	If numeric colour method, the number of digits to round the labels to. Only applicable where <code>col_labels</code> equals <code>NULL</code> .
<code>col_labels</code>	A function or named vector to modify colour scale labels. Defaults to <code>stringr::str_to_sentence</code> for categorical colour variables and <code>scales::comma</code> for numeric colour variables. Use <code>ggplot2::waiver()</code> to keep colour labels untransformed.
<code>col_na_rm</code>	TRUE or FALSE of whether to include <code>col_var</code> NA values. Defaults to FALSE.
<code>col_pretty_n</code>	For a numeric colour variable of "bin" <code>col_method</code> , the desired number of intervals on the colour scale, as calculated by the pretty algorithm. Defaults to 5.
<code>col_method</code>	The method of colouring features, either "bin", "quantile" or "category." If numeric, defaults to "bin".
<code>col_right_closed</code>	For a numeric colour variable, TRUE or FALSE of whether bins or quantiles are to be cut right-closed. Defaults to TRUE.
<code>col_title</code>	Colour title string for the legend. Defaults to <code>NULL</code> , 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>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\$mobile</code> .

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`*Simple feature ggplot map that is coloured and faceted.*

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_na = "#7F7F7F",  
  pal_rev = FALSE,  
  size_point = 1,  
  size_line = 0.5,  
  alpha = NULL,  
  borders = NULL,  
  borders_on_top = NULL,  
  borders_pal = "#7F7F7F",  
  borders_size = 0.2,  
  title = NULL,  
  title_wrap = 80,  
  subtitle = NULL,  
  subtitle_wrap = 80,  
  col_cuts = NULL,  
  col_label_digits = NULL,  
  col_labels = NULL,  
  col_method = NULL,  
  col_na_rm = FALSE,  
  col_pretty_n = 5,  
  col_right_closed = TRUE,  
  col_title = NULL,  
  col_title_wrap = 25,  
  facet_labels = stringr::str_to_sentence,  
  facet_na_rm = FALSE,  
  facet_ncol = NULL,  
  facet_nrow = NULL,
```

```

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>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>pal</code>	Character vector of hex codes. Defaults to NULL, which selects the colorbrewer Set1 or viridis.
<code>pal_na</code>	The hex code or name of the NA colour to be used.
<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 features. Defaults to 1 for points/lines, or 0.95 for polygons.
<code>borders</code>	A sf object as administrative boundaries (or coastlines). Defaults to no boundaries added. The <code>rnaturalearth</code> package is a useful source of country and state boundaries.
<code>borders_on_top</code>	TRUE or FALSE as to whether the borders are on top of the sf object supplied to the data argument. Defaults to TRUE for points and lines, but FALSE for polygons..
<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.
<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 -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_label_digits</code>	If numeric colour method, the number of digits to round the labels to. Only applicable where <code>col_labels</code> equals NULL.
<code>col_labels</code>	A function or named vector to modify colour scale labels. Defaults to <code>stringr::str_to_sentence</code> for categorical colour variables and <code>scales::comma</code> for numeric colour variables. Use <code>ggplot2::waiver()</code> to keep colour labels untransformed.

<code>col_method</code>	The method of colouring features, either "bin", "quantile" or "category." If numeric, defaults to "bin".
<code>col_na_rm</code>	TRUE or FALSE of whether to include <code>col_var</code> NA values. Defaults to FALSE.
<code>col_pretty_n</code>	For a numeric colour variable of "bin" <code>col_method</code> , the desired number of intervals on the colour scale, as calculated by the pretty algorithm. Defaults to 5.
<code>col_right_closed</code>	For a numeric colour variable, TRUE or FALSE of whether bins or quantiles are to be cut right-closed. 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.
<code>facet_labels</code>	A function or named vector to modify facet scale labels. Defaults to converting labels to sentence case. Use <code>ggplot2::waiver()</code> to keep facet labels untransformed.
<code>facet_na_rm</code>	TRUE or FALSE of whether to include <code>facet_var</code> NA values. Defaults to FALSE.
<code>facet_ncol</code>	The number of columns of faceted plots.
<code>facet_nrow</code>	The number of rows of faceted plots.
<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_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 = NULL,  
  pal = NULL,  
  facet_labels = stringr::str_to_sentence,  
  facet_na_rm = FALSE,  
  facet_ncol = NULL,  
  facet_nrow = NULL,  
  borders = NULL,  
  borders_on_top = NULL,  
  borders_pal = "#7F7F7F",  
  borders_size = 0.2,  
  title = NULL,  
  title_wrap = 80,  
  subtitle = NULL,  
  subtitle_wrap = 80,  
  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 <code>NULL</code> .
<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 features. Defaults to 1 for points/lines, or 0.5 for polygons.

<code>pal</code>	Character vector of hex codes.
<code>facet_labels</code>	A function or named vector to modify facet scale labels. Defaults to converting labels to sentence case. Use <code>ggplot2::waiver()</code> to keep facet labels untransformed.
<code>facet_na_rm</code>	TRUE or FALSE of whether to include <code>facet_var</code> NA values. Defaults to FALSE.
<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 <code>sf</code> 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_on_top</code>	TRUE or FALSE as to whether the borders are on top of the <code>sf</code> object supplied to the data argument. Defaults to TRUE for points and lines, but FALSE for polygons..
<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.
<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)
```

gg_stars	<i>Stars ggplot map.</i>
----------	--------------------------

Description

Map of an array in ggplot that is not coloured and not faceted.

Usage

```
gg_stars(
  data,
  downsample = 0,
  pal = NULL,
  alpha = 0.5,
  borders = NULL,
  borders_on_top = TRUE,
  borders_pal = "#323232",
  borders_size = 0.2,
  title = NULL,
  title_wrap = 80,
  subtitle = NULL,
  subtitle_wrap = 80,
  caption = NULL,
  caption_wrap = 80,
  font_family = "",
  font_size_title = NULL,
  font_size_body = NULL,
  mobile = FALSE
)
```

Arguments

data	A stars object with defined coordinate reference system. Note, it cannot be a stars_proxy object. Required input.
downsample	downsampling rate: e.g. 3 keeps rows and cols 1, 4, 7, 10 etc. A value of 0 does not downsample. It can be specified for each dimension. E.g. c(5,5,0) to downsample the first two dimensions but not the third.
pal	Character vector of hex codes.
alpha	The opacity of the array. Defaults to 0.5.
borders	A sf object as administrative boundaries (or coastlines). Defaults to no boundaries added. The rnatualearth package is a useful source of country and state boundaries.
borders_on_top	TRUE or FALSE as to whether the borders are on top of the stars array. Defaults to TRUE.
borders_pal	Colour of the borders. Defaults to "#323232".

borders_size	Size of the borders. Defaults to 0.2.
title	Title string.
title_wrap	Number of characters to wrap the title to. Defaults to 75.
subtitle	Subtitle string.
subtitle_wrap	Number of characters to wrap the subtitle to. Defaults to 100. Not applicable where mobile equals TRUE.
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(stars)

gg_stars(example_stars,
         borders = nz)
```

gg_stars_col	<i>Stars ggplot map that is coloured.</i>
--------------	-------------------------------------------

Description

Map of an array in ggplot that is coloured, but not faceted.

Usage

```
gg_stars_col(
  data,
  col_var,
  downsample = 0,
  pal = NULL,
  pal_na = "#7F7F7F",
  pal_rev = FALSE,
```

```

alpha = 1,
borders = NULL,
borders_on_top = TRUE,
borders_pal = "#7F7F7F",
borders_size = 0.2,
title = NULL,
title_wrap = 80,
subtitle = NULL,
subtitle_wrap = 80,
col_cuts = NULL,
col_label_digits = NULL,
col_labels = NULL,
col_na_rm = FALSE,
col_pretty_n = 5,
col_method = NULL,
col_right_closed = 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 stars object with defined coordinate reference system. Note, it cannot be a stars_proxy object. Required input.
<code>col_var</code>	Unquoted variable for points to be coloured by. Required input.
<code>downsample</code>	downsampling rate: e.g. 3 keeps rows and cols 1, 4, 7, 10 etc. A value of 0 does not downsample. It can be specified for each dimension. E.g. c(5,5,0) to downsample the first two dimensions but not the third.
<code>pal</code>	Character vector of hex codes. Defaults to NULL, which selects the colorbrewer Set1 or viridis.
<code>pal_na</code>	The hex code or name of the NA colour to be used.
<code>pal_rev</code>	Reverses the palette. Defaults to FALSE.
<code>alpha</code>	The opacity of features. Defaults to 1 for points/lines, or 0.95 for polygons.
<code>borders</code>	A sf object as administrative boundaries (or coastlines). Defaults to no boundaries added. The rnatualearth package is a useful source of country and state boundaries.
<code>borders_on_top</code>	TRUE or FALSE as to whether the borders are on top of the stars array. 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.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 75.
<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>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 <code>0</code> , and the final number <code>Inf</code> . If "quantile" is selected, the first number in the vector should be <code>0</code> and the final number should be <code>1</code> . Defaults to quartiles.
<code>col_label_digits</code>	If numeric colour method, the number of digits to round the labels to. Only applicable where <code>col_labels</code> equals <code>NULL</code> .
<code>col_labels</code>	A function or named vector to modify colour scale labels. Defaults to <code>stringr::str_to_sentence</code> for categorical colour variables and <code>scales::comma</code> for numeric colour variables. Use <code>ggplot2::waiver()</code> to keep colour labels untransformed.
<code>col_na_rm</code>	<code>TRUE</code> or <code>FALSE</code> of whether to visualise <code>col_var</code> NA values. Defaults to <code>FALSE</code> .
<code>col_pretty_n</code>	For a numeric colour variable of "bin" <code>col_method</code> , the desired number of intervals on the colour scale, as calculated by the pretty algorithm. Defaults to 5.
<code>col_method</code>	The method of colouring features, either "bin", "quantile" or "category." If numeric, defaults to "bin".
<code>col_right_closed</code>	For a numeric colour variable, <code>TRUE</code> or <code>FALSE</code> of whether bins or quantiles are to be cut right-closed. Defaults to <code>TRUE</code> .
<code>col_title</code>	Colour title string for the legend. Defaults to <code>NULL</code> , 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 <code>TRUE</code> .
<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 <code>FALSE</code> . If within a shiny app with the <code>mobileDetect</code> function, then use <code>mobile = input\$mobile</code> .

Value

A `ggplot` object.

Examples

```
library(simplevis)
library(stars)

gg_stars_col(example_stars,
             col_var = nitrate,
             col_method = "quantile",
             col_cuts = c(0, 0.05, 0.25, 0.5, 0.75, 0.95, 1),
             col_na_rm = TRUE,
             borders = nz)
```

gg_tile_col

Tile ggplot that is coloured.

Description

Tile ggplot that is coloured, but not faceted.

Usage

```
gg_tile_col(
  data,
  x_var,
  y_var,
  col_var,
  label_var = NULL,
  text_var = NULL,
  pal = NULL,
  pal_label = "#323232",
  pal_na = "#7F7F7F",
  pal_rev = FALSE,
  width = NULL,
  alpha = 1,
  size_line = 0.5,
  size_label = 3.5,
  title = NULL,
  title_wrap = 75,
  subtitle = NULL,
  subtitle_wrap = 75,
  x_expand = c(0, 0),
  x_labels = stringr::str_to_sentence,
  x_na_rm = FALSE,
  x_rev = FALSE,
  x_title = NULL,
  x_title_wrap = 50,
  y_expand = c(0, 0),
```

```

y_labels = stringr::str_to_sentence,
y_na_rm = FALSE,
y_rev = FALSE,
y_title = NULL,
y_title_wrap = 50,
col_cuts = NULL,
col_label_digits = NULL,
col_labels = NULL,
col_method = NULL,
col_na_rm = FALSE,
col_pretty_n = 5,
col_right_closed = TRUE,
col_title = NULL,
col_title_wrap = 25,
caption = NULL,
caption_wrap = 75,
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 tiles Required input.
<code>label_var</code>	Unquoted variable to label the tiles.
<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>pal_label</code>	Hex code for the label font colour. Defaults to "#323232".
<code>pal_na</code>	The hex code or name of the NA colour to be used.
<code>pal_rev</code>	Reverses the palette. Defaults to FALSE.
<code>width</code>	Width of tiles. Defaults to 1.
<code>alpha</code>	The alpha of the fill. Defaults to 1.
<code>size_line</code>	The size of the outlines of tiles.
<code>size_label</code>	The size of the of labels. Defaults to 3.5.
<code>title</code>	Title string.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 60.
<code>subtitle</code>	Subtitle string.

subtitle_wrap	Number of characters to wrap the subtitle to. Defaults to 60.
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 named vector to modify x scale labels. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep x labels untransformed.
x_na_rm	TRUE or FALSE of whether to include x_var NA values. Defaults to FALSE.
x_rev	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.
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 named vector to modify y scale labels. If NULL, categorical variable labels are converted to sentence case. Use ggplot2::waiver() to keep y labels untransformed.
y_na_rm	TRUE or FALSE of whether to include y_var NA values. Defaults to FALSE.
y_rev	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.
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_label_digits	If numeric colour method, the number of digits to round the labels to. Only applicable where col_labels equals NULL.
col_labels	A function or named vector to modify colour scale labels. Defaults to stringr::str_to_sentence for categorical colour variables and scales::comma for numeric colour variables. Use ggplot2::waiver() to keep colour labels untransformed.
col_method	The method of colouring features, either "bin", "quantile" or "category." If numeric, defaults to "bin".
col_na_rm	TRUE or FALSE of whether to include col_var NA values. Defaults to FALSE.
col_pretty_n	For a numeric colour variable of "bin" col_method, the desired number of intervals on the colour scale, as calculated by the pretty algorithm. Defaults to 5.
col_right_closed	For a numeric colour variable, TRUE or FALSE of whether bins or quantiles are to be cut right-closed. 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 75.
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(dplyr)
library(palmerpenguins)

plot_data <- penguins %>%
  group_by(species, sex) %>%
  summarise(bill_length_mm = round(mean(bill_length_mm, na.rm = TRUE), 0)) %>%
  mutate(label = glue::glue("{bill_length_mm} mm"))

gg_tile_col(plot_data,
  x_var = sex,
  y_var = species,
  col_var = bill_length_mm,
  label_var = label)
```

gg_tile_col_facet *Tile ggplot that is coloured and faceted.*

Description

Tile ggplot that is coloured and faceted.

Usage

```
gg_tile_col_facet(  
  data,  
  x_var,  
  y_var,  
  col_var,  
  facet_var,  
  label_var = NULL,  
  text_var = NULL,  
  pal = NULL,  
  pal_label = "#323232",  
  pal_na = "#7F7F7F",  
  pal_rev = FALSE,  
  width = NULL,  
  alpha = 1,  
  size_line = 0.5,  
  size_label = 3.5,  
  title = NULL,  
  title_wrap = 75,  
  subtitle = NULL,  
  subtitle_wrap = 75,  
  x_expand = c(0, 0),  
  x_labels = stringr::str_to_sentence,  
  x_na_rm = FALSE,  
  x_rev = FALSE,  
  x_title = NULL,  
  x_title_wrap = 50,  
  y_expand = c(0, 0),  
  y_labels = stringr::str_to_sentence,  
  y_na_rm = FALSE,  
  y_rev = FALSE,  
  y_title = NULL,  
  y_title_wrap = 50,  
  col_cuts = NULL,  
  col_label_digits = NULL,  
  col_labels = NULL,  
  col_method = NULL,  
  col_na_rm = FALSE,  
  col_pretty_n = 5,  
  col_right_closed = TRUE,  
  col_title = NULL,  
  col_title_wrap = 25,  
  facet_labels = stringr::str_to_sentence,  
  facet_na_rm = FALSE,  
  facet_ncol = NULL,  
  facet_nrow = NULL,  
  facet_scales = "fixed",  
  caption = NULL,  
)
```

```

caption_wrap = 75,
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 tiles. Required input.
<code>facet_var</code>	Unquoted categorical variable to facet the data by. Required input.
<code>label_var</code>	Unquoted variable to label the tiles.
<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>pal_label</code>	Hex code for the label font colour. Defaults to "#323232".
<code>pal_na</code>	The hex code or name of the NA colour to be used.
<code>pal_rev</code>	Reverses the palette. Defaults to FALSE.
<code>width</code>	Width of tiles. Defaults to 1.
<code>alpha</code>	The alpha of the fill. Defaults to 1.
<code>size_line</code>	The size of the outlines of tiles.
<code>size_label</code>	The size of the of labels. Defaults to 3.5.
<code>title</code>	Title string.
<code>title_wrap</code>	Number of characters to wrap the title to. Defaults to 60.
<code>subtitle</code>	Subtitle string.
<code>subtitle_wrap</code>	Number of characters to wrap the subtitle to. Defaults to 60.
<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 named vector to modify x scale labels. If NULL, categorical variable labels are converted to sentence case. Use <code>ggplot2::waiver()</code> to keep x labels untransformed.
<code>x_na_rm</code>	TRUE or FALSE of whether to include <code>x_var</code> NA values. Defaults to FALSE.
<code>x_rev</code>	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>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 named vector to modify y scale labels. 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_rm</code>	<code>TRUE</code> or <code>FALSE</code> of whether to include <code>y_var</code> NA values. Defaults to <code>FALSE</code> .
<code>y_rev</code>	<code>TRUE</code> or <code>FALSE</code> of whether the y variable variable is reversed. Defaults to <code>FALSE</code> .
<code>y_title</code>	y scale title string. Defaults to <code>NULL</code> , 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_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_label_digits</code>	If numeric colour method, the number of digits to round the labels to. Only applicable where <code>col_labels</code> equals <code>NULL</code> .
<code>col_labels</code>	A function or named vector to modify colour scale labels. Defaults to <code>stringr::str_to_sentence</code> for categorical colour variables and <code>scales::comma</code> for numeric colour variables. Use <code>ggplot2::waiver()</code> to keep colour labels untransformed.
<code>col_method</code>	The method of colouring features, either "bin", "quantile" or "category." If numeric, defaults to "bin".
<code>col_na_rm</code>	<code>TRUE</code> or <code>FALSE</code> of whether to include <code>col_var</code> NA values. Defaults to <code>FALSE</code> .
<code>col_pretty_n</code>	For a numeric colour variable of "bin" <code>col_method</code> , the desired number of intervals on the colour scale, as calculated by the pretty algorithm. Defaults to 5.
<code>col_right_closed</code>	For a numeric colour variable, <code>TRUE</code> or <code>FALSE</code> of whether bins or quantiles are to be cut right-closed. Defaults to <code>TRUE</code> .
<code>col_title</code>	Colour title string for the legend. Defaults to <code>NULL</code> , 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>col_cuts</code> equals <code>TRUE</code> .
<code>facet_labels</code>	A function or named vector to modify facet scale labels. Defaults to converting labels to sentence case. Use <code>ggplot2::waiver()</code> to keep facet labels untransformed.
<code>facet_na_rm</code>	<code>TRUE</code> or <code>FALSE</code> of whether to include <code>facet_var</code> NA values. Defaults to <code>FALSE</code> .
<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".

caption	Caption title string.
caption_wrap	Number of characters to wrap the caption to. Defaults to 75.
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(dplyr)
library(palmerpenguins)

plot_data <- penguins %>%
  group_by(species, sex, island) %>%
  summarise(bill_length_mm = round(mean(bill_length_mm, na.rm = TRUE), 0)) %>%
  mutate(label = glue::glue("{bill_length_mm} mm"))

gg_tile_col_facet(plot_data,
  x_var = sex,
  y_var = island,
  col_var = bill_length_mm,
  facet_var = species,
  label_var = label,
  x_na_rm = FALSE,
  pal_rev = TRUE)
```

interval_labels	<i>Convert numeric or interval cuts to simple and pretty labels.</i>
-----------------	----------------------------------------------------------------------

Description

Convert numeric or interval cuts to simple and pretty labels.

Usage

```
interval_labels(cuts, digits = NULL, right_closed = TRUE)
```

Arguments

<code>cuts</code>	A vector or numeric or character interval cuts.
<code>digits</code>	If cuts are numeric, the number of decimal places to round labels to.
<code>right_closed</code>	If cuts are numeric, TRUE or FALSE of whether intervals are to be right-closed. Defaults to TRUE.

Value

A vector of character labels.

Examples

```
library(simplevis)

interval_labels(c(0, 0.1, 3, 4.1, 7, 100, Inf))

interval_labels(c("(0, 10]", "(10, 50]", "(50, 100]"))

interval_labels(c("[0, 10)", "[10, 50)", "[50, 100)"))
```

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

Description

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

Usage

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

Arguments

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

Value

A leaflet object.

Examples

```
leaflet_basemap(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 = NULL,
  basemap = "light",
  map_id = "map"
)
```

Arguments

data	An sf object of geometry type point/multipoint, linestring/multilinestring or polygon/multipolygon geometry type. Required input.
popup_vars_vctr	Vector of quoted variable names to include in the popup. If NULL, defaults to making a leafpop::popupTable of all columns.
pal	Character vector of hex codes.
size_point	Size of points (i.e. radius). Defaults to 2.
size_line	Size of lines around features (i.e. weight). Defaults to 2.
alpha	The opacity of features. Defaults to 1 for points/lines, or 0.75 for polygons.
basemap	The underlying basemap. Either "light", "dark", "satellite", "street", or "ocean". Defaults to "light". Only applicable where shiny equals FALSE.
map_id	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)
```

leaflet_sf_col	<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,
  label_var = NULL,
  popup_vars_vctr = NULL,
  pal = NULL,
  pal_na = "#7F7F7F",
  pal_rev = FALSE,
  size_point = 2,
  size_line = 2,
  alpha = NULL,
  basemap = "light",
  col_cuts = NULL,
  col_label_digits = NULL,
  col_labels = NULL,
  col_method = NULL,
  col_na_rm = FALSE,
  col_pretty_n = 4,
  col_right_closed = TRUE,
  col_title = NULL,
  map_id = "map"
)
```

Arguments

data	An sf object of geometry type point/multipoint, linestring/multilinestring or polygon/multipolygon geometry type. Required input.
col_var	Unquoted variable to colour the features by. Required input.
label_var	Unquoted variable to label the features by. If NULL, defaults to using the colour variable.
popup_vars_vctr	Vector of quoted variable names to include in the popup. If NULL, defaults to making a leafpop::popupTable of all columns.
pal	Character vector of hex codes.
pal_na	The hex code or name of the NA colour to be used.
pal_rev	Reverses the palette. Defaults to FALSE.

size_point	Size of points (i.e. radius). Defaults to 2.
size_line	Size of lines around features (i.e. weight). Defaults to 2.
alpha	The opacity of features. Defaults to 1 for points/lines, or 0.95 for polygons.
basemap	The underlying basemap. Either "light", "dark", "satellite", "street", or "ocean". Defaults to "light". Only applicable where shiny equals FALSE.
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_label_digits	If numeric colour method, the number of digits to round the labels to.
col_labels	A vector to modify colour scale labels.
col_method	The method of colouring features, either "bin", "quantile" or "category." If numeric, defaults to "bin".
col_na_rm	TRUE or FALSE of whether to include col_var NA values. Defaults to FALSE.
col_pretty_n	For a numeric colour variable of "bin" col_method, the desired number of intervals on the colour scale, as calculated by the pretty algorithm. Defaults to 4.
col_right_closed	For a numeric colour variable, TRUE or FALSE of whether bins or quantiles are to be cut right-closed. Defaults to TRUE.
col_title	A title string that will be wrapped into the legend.
map_id	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))
```

leaflet_stars	<i>Stars leaflet map.</i>
---------------	---------------------------

Description

Map of stars in leaflet that is not coloured.

Usage

```
leaflet_stars(data, pal = NULL, alpha = 0.5, basemap = "light", map_id = "map")
```

Arguments

data	A stars object. Required input.
pal	Character vector of hex codes.
alpha	The opacity of the array values.
basemap	The underlying basemap. Either "light", "dark", "satellite", "street", or "ocean". Defaults to "light". Only applicable where shiny equals FALSE.
map_id	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

```
library(simplevis)
library(stars)

leaflet_stars(example_stars)
```

leaflet_stars_col	<i>Stars leaflet map that is coloured.</i>
-------------------	--------------------------------------------

Description

Map of stars in leaflet that is coloured.

Usage

```
leaflet_stars_col(
  data,
  col_var,
  pal = NULL,
  pal_na = "#7F7F7F",
  pal_rev = FALSE,
  alpha = 1,
  basemap = "light",
  col_cuts = NULL,
  col_label_digits = NULL,
  col_labels = NULL,
  col_method = NULL,
  col_na_rm = FALSE,
  col_pretty_n = 4,
  col_right_closed = TRUE,
  col_title = NULL,
  map_id = "map"
)
```

Arguments

<code>data</code>	A stars object. Required input.
<code>col_var</code>	Unquoted attribute to colour the features by. Required input.
<code>pal</code>	Character vector of hex codes.
<code>pal_na</code>	The hex code or name of the NA colour to be used.
<code>pal_rev</code>	Reverses the palette. Defaults to FALSE.
<code>alpha</code>	The opacity of features. Defaults to 1.
<code>basemap</code>	The underlying basemap. Either "light", "dark", "satellite", "street", or "ocean". Defaults to "light". Only applicable where shiny equals 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_label_digits</code>	If numeric colour method, the number of digits to round the labels to.
<code>col_labels</code>	A vector to modify colour scale labels.
<code>col_method</code>	The method of colouring features, either "bin", "quantile" or "category." If numeric, defaults to "bin".
<code>col_na_rm</code>	TRUE or FALSE of whether to visualise col_var NA values. Defaults to FALSE.
<code>col_pretty_n</code>	For a numeric colour variable of "bin" col_method, the desired number of intervals on the colour scale, as calculated by the pretty algorithm. Defaults to 4.

col_right_closed	For a numeric colour variable, TRUE or FALSE of whether bins or quantiles are to be cut right-closed. Defaults to TRUE.
col_title	A title string that will be wrapped into the legend.
map_id	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

```
library(simplevis)
library(stars)

leaflet_stars_col(example_stars,
                  col_var = nitrate)
```

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

New Zealand coastline.

Description

Simplified New Zealand coastline boundary, excluding the Chatham Islands.

Usage

nz

Format

An sf object.

Examples

```
nz

gg_sf(nz, alpha = 0)

gg_sf(dplyr::slice(nz, 2, 4), alpha = 0)

gg_sf(dplyr::slice(nz, 1, 3, 5:7), alpha = 0)
```

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(n)
```

Arguments

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

Value

A character 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(pal = "#7F7F7FFF")
```

Arguments

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

Value

A character vector.

Examples

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

pal_viridis_reorder *Viridis palette reordered.*

Description

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

Usage

```
pal_viridis_reorder(n)
```

Arguments

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

Value

A character vector of hex codes.

Examples

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

plotly_camera *Remove plotly buttons from the mode bar, other than the camera.*

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 *Change colour legend elements order.*

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" with graph and table tabs, and "template2" also with a map tab. Defaults to "template1".
...	passed to shiny::runApp

theme_hv_gridlines	<i>Theme for graphs with horizontal and vertical gridlines.</i>
--------------------	-----------------------------------------------------------------

Description

Theme for graphs with horizontal and vertical gridlines.

Usage

```
theme_hv_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(simplevis)
library(ggplot2)

ggplot() +
  scale_x_continuous(breaks = seq(0, 10, 2), limits = c(0, 10), expand = c(0, 0)) +
  scale_y_continuous(breaks = seq(0, 10, 2), limits = c(0, 10), expand = c(0, 0)) +
  ggtitle("This is a title with a specified font family and size") +
  theme_hv_gridlines("Courier", 9, 7)
```

theme_h_gridlines *Theme for graphs with horizontal gridlines.*

Description

Theme for graphs with horizontal gridlines.

Usage

```
theme_h_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(simplevis)
library(ggplot2)

ggplot() +
  scale_x_continuous(breaks = seq(0, 10, 2), limits = c(0, 10), expand = c(0, 0)) +
  scale_y_continuous(breaks = seq(0, 10, 2), limits = c(0, 10), expand = c(0, 0)) +
  ggtitle("This is a title with a specified font family and size") +
  theme_h_gridlines("Courier", 9, 7)
```

theme_map *Theme for maps.*

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(simplevis)
library(ggplot2)

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

theme_no_gridlines *Theme for graphs with no gridlines.*

Description

Theme for graphs with no gridlines.

Usage

```
theme_no_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(simplevis)
library(ggplot2)

ggplot() +
  scale_x_continuous(breaks = seq(0, 10, 2), limits = c(0, 10), expand = c(0, 0)) +
  scale_y_continuous(breaks = seq(0, 10, 2), limits = c(0, 10), expand = c(0, 0)) +
  ggtitle("This is a title with a specified font family and size") +
  theme_no_gridlines("Courier", 9, 7)
```

theme_v_gridlines *Theme for graphs with vertical gridlines.*

Description

Theme for graphs with vertical gridlines.

Usage

```
theme_v_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(simplevis)
library(ggplot2)

ggplot() +
  scale_x_continuous(breaks = seq(0, 10, 2), limits = c(0, 10), expand = c(0, 0)) +
  scale_y_continuous(breaks = seq(0, 10, 2), limits = c(0, 10), expand = c(0, 0)) +
  ggtitle("This is a title of a font family and size") +
  theme_v_gridlines("Courier", 9, 7)
```

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