

Package ‘see’

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Type Package

Title Visualisation Toolbox for 'easystats' and Extra Geoms, Themes and Color Palettes for 'ggplot2'

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URL <https://easystats.github.io/see/>

BugReports <https://github.com/easystats/see/issues>

Description Provides plotting utilities supporting easystats-packages (<<https://github.com/easystats/easystats>>) and some extra themes, geoms, and scales for 'ggplot2'. Color scales are based on <<https://www.materialui.co/colors>>.

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`add_plot_attributes` *Complete figure with its attributes*

Description

The `data_plot` function usually stores information (such as title, axes labels etc.) as attributes. This function adds those information to the plot.

Usage

```
add_plot_attributes(x)
```

Arguments

x An object.

Examples

```
## Not run:
library(rstanarm)
library(bayestestR)
library(see)
library(ggplot2)

model <- stan_glm(
  Sepal.Length ~ Petal.Width + Species + Sepal.Width,
  data = iris,
  chains = 2, iter = 200
)

result <- hdi(model, ci = c(0.5, 0.75, 0.9, 0.95))
data <- data_plot(result, data = model)

p <- data %>%
  ggplot(aes(x = x, y = y, height = height, group = y, fill = fill)) +
  ggridges::geom_ridgeline_gradient()

p
p + add_plot_attributes(data)
## End(Not run)
```

bluebrown_colors

Extract blue-brown colors as hex codes

Description

Can be used to get the hex code of specific colors from the blue-brown color palette. Use `bluebrown_colors()` to see all available color.

Usage

```
bluebrown_colors(...)
```

Arguments

... Character names of colors.

Value

A character vector with color-codes.

Examples

```
bluebrown_colors()

bluebrown_colors("blue", "brown")
```

coord_radar	<i>Radar coordinate system</i>
-------------	--------------------------------

Description

Add a radar coordinate system useful for radar charts.

Usage

```
coord_radar(theta = "x", start = 0, direction = 1, ...)
```

Arguments

theta	Can be 'x' or 'y'.
start	Starting position. Best expressed in terms of pi (e.g., $-\pi/4$).
direction	The direction of plotting. Can be 1 or -1.
...	Other arguments to be passed to ggproto.

Examples

```
# Create a radar/spider chart with ggplot:
if (require("dplyr") && require("tidyr") && require("ggplot2")) {
  data <- iris %>%
    group_by(Species) %>%
    summarise_all(mean) %>%
    pivot_longer(-Species)

  data %>%
    ggplot(aes(x = name, y = value, color = Species, group = Species)) +
    geom_polygon(fill = NA, size = 2) +
    coord_radar(start =  $-\pi/4$ )
}
```

data_plot	<i>Prepare objects for plotting or plot objects</i>
-----------	---

Description

`data_plot()` attempts to extract and transform an object to be further plotted, while `plot()` tries to visualize results of functions from different packages of the [easystats-project](#). See the documentation for your object's class:

- `bayestestR::bayesfactor_models()`
- `bayestestR::bayesfactor_parameters()`
- `bayestestR::equivalence_test()`

- bayestestR::estimate_density()
- bayestestR::hdi()
- bayestestR::p_direction()
- bayestestR::p_significance()
- bayestestR::si()
- correlation::correlation()
- correlation::correlation() (Gaussian Graphical Models)
- effectsize::effectsize()
- modelbased::estimate_contrasts()
- parameters::cluster_analysis()
- parameters::describe_distribution()
- parameters::model_parameters()
- parameters::principal_components()
- parameters::n_clusters()
- parameters::n_factors()
- parameters::simulate_parameters()
- performance::check_collinearity()
- performance::check_heteroscedasticity()
- performance::check_homogeneity()
- performance::check_normality()
- performance::check_outliers()
- performance::compare_performance()
- performance::performance_roc()

Usage

```
data_plot(x, data = NULL, ...)
```

Arguments

x	An object.
data	The original data used to create this object. Can be a statistical model or such.
...	Arguments passed to or from other methods.

Details

data_plot() is in most situation not needed when the purpose is plotting, since most plot()-functions in **see** internally call data_plot() to prepare the data for plotting.

Many plot()-functions have a data-argument that is needed when the data or model for plotting can't be retrieved via data_plot(). In such cases, plot() gives an error and asks for providing data or models.

Most `plot()`-functions work out-of-the-box, i.e. you don't need to do much more than calling `plot(<object>)` (see 'Examples'). Some plot-functions allow to specify arguments to modify the transparency or color of geoms, these are shown in the 'Usage' section.

See Also

[Package-Vignettes](#)

Examples

```
## Not run:
library(bayestestR)
if (require("rstanarm")) {
  model <- stan_glm(
    Sepal.Length ~ Petal.Width * Species,
    data = iris,
    chains = 2, iter = 200, refresh = 0
  )

  x <- rope(model)
  plot(x)

  x <- hdi(model)
  plot(x) + theme_modern()

  data <- rnorm(1000, 1)
  x <- p_direction(data)
  plot(x)

  x <- p_direction(model)
  plot(x)

  model <- stan_glm(
    mpg ~ wt + gear + cyl + disp,
    chains = 2,
    iter = 200,
    refresh = 0,
    data = mtcars
  )
  x <- equivalence_test(model)
  plot(x)
}

## End(Not run)
```

Description

Can be used to get the hex code of specific colors from the Flat UI color palette. Use `flat_colors()` to see all available color.

Usage

```
flat_colors(...)
```

Arguments

... Character names of colors.

Value

A character vector with color-codes.

Examples

```
flat_colors()
```

```
flat_colors("dark red", "teal")
```

geom_point2

Better looking points

Description

Somewhat nicer points (especially in case of transparency) without outline strokes (borders, contours) by default.

Usage

```
geom_point2(..., stroke = 0, shape = 16)
```

```
geom_point_borderless(..., stroke = 0, shape = 16)
```

```
geom_jitter2(..., size = 2, stroke = 0, shape = 16)
```

```
geom_jitter_borderless(..., size = 2, stroke = 0, shape = 16)
```

```
geom_pointrange2(..., stroke = 0)
```

```
geom_pointrange_borderless(..., stroke = 0)
```

```
geom_count2(..., stroke = 0)
```

```
geom_count_borderless(..., stroke = 0)
```


Arguments

... Other arguments to be passed to `geom_point`, `geom_jitter`, `geom_pointrange`, or `ggplot2::geom_count`.

stroke Stroke thickness.

shape Shape of points.

size Size of points.

Examples

```
library(ggplot2)
library(see)

normal <- ggplot(iris, aes(x = Petal.Width, y = Sepal.Length)) +
  geom_point(size = 8, alpha = 0.3) +
  theme_modern()

new <- ggplot(iris, aes(x = Petal.Width, y = Sepal.Length)) +
  geom_point2(size = 8, alpha = 0.3) +
  theme_modern()

plots(normal, new, n_columns = 2)
```

geom_poolpoint	<i>Pool ball points</i>
----------------	-------------------------

Description

Points labelled with the observation name.

Usage

```
geom_poolpoint(
  label,
  size_text = 3.88,
  size_background = size_text * 2,
  size_point = size_text * 3.5,
  ...
)

geom_pooljitter(
  label,
  size_text = 3.88,
  size_background = size_text * 2,
  size_point = size_text * 3.5,
  jitter = 0.1,
  ...
)
```

Arguments

label	Label to add inside the points.
size_text	Size of text.
size_background	Size of the white background circle.
size_point	Size of the ball.
...	Other arguments to be passed to geom_point.
jitter	Width and height of position jitter.

Examples

```
library(ggplot2)
library(see)

ggplot(iris, aes(x = Petal.Width, y = Sepal.Length, color = Species )) +
  geom_poolpoint(label = rownames(iris)) +
  scale_color_flat_d() +
  theme_modern()
```

```
ggplot(iris, aes(x = Petal.Width, y = Sepal.Length, color = Species )) +
  geom_pooljitter(label = rownames(iris)) +
  scale_color_flat_d() +
  theme_modern()
```

geom_violindot

Half-violin Half-dot plot

Description

Create a half-violin half-dot plot, useful for visualising the distribution and the sample size at the same time.

Usage

```
geom_violindot(
  mapping = NULL,
  data = NULL,
  trim = TRUE,
  scale = "area",
  show.legend = NA,
  inherit.aes = TRUE,
  dots_size = 0.7,
  dots_color = NULL,
  dots_fill = NULL,
```

```

  binwidth = 0.05,
  position_dots = ggplot2::position_nudge(x = -0.025, y = 0),
  ...,
  size_dots = dots_size,
  color_dots = dots_color,
  fill_dots = dots_fill
)

```

Arguments

mapping	Set of aesthetic mappings created by <code>aes()</code> or <code>aes_()</code> . If specified and <code>inherit.aes = TRUE</code> (the default), it is combined with the default mapping at the top level of the plot. You must supply mapping if there is no plot mapping.
data	The data to be displayed in this layer. There are three options: If <code>NULL</code> , the default, the data is inherited from the plot data as specified in the call to <code>ggplot()</code> . A <code>data.frame</code> , or other object, will override the plot data. All objects will be fortified to produce a data frame. See <code>fortify()</code> for which variables will be created. A function will be called with a single argument, the plot data. The return value must be a <code>data.frame</code> , and will be used as the layer data. A function can be created from a formula (e.g. <code>~ head(.x, 10)</code>).
trim	If <code>TRUE</code> (default), trim the tails of the violins to the range of the data. If <code>FALSE</code> , don't trim the tails.
scale	if "area" (default), all violins have the same area (before trimming the tails). If "count", areas are scaled proportionally to the number of observations. If "width", all violins have the same maximum width.
show.legend	logical. Should this layer be included in the legends? <code>NA</code> , the default, includes if any aesthetics are mapped. <code>FALSE</code> never includes, and <code>TRUE</code> always includes. It can also be a named logical vector to finely select the aesthetics to display.
inherit.aes	If <code>FALSE</code> , overrides the default aesthetics, rather than combining with them. This is most useful for helper functions that define both data and aesthetics and shouldn't inherit behaviour from the default plot specification, e.g. <code>borders()</code> .
binwidth	When method is "dotdensity", this specifies maximum bin width. When method is "histodot", this specifies bin width. Defaults to 1/30 of the range of the data
position_dots	Position adjustment for dots, either as a string, or the result of a call to a position adjustment function.
...	Other arguments passed on to <code>layer()</code> . These are often aesthetics, used to set an aesthetic to a fixed value, like <code>colour = "red"</code> or <code>size = 3</code> . They may also be parameters to the paired <code>geom/stat</code> .
size_dots, dots_size	Size adjustment for dots.
color_dots, dots_color	Color adjustment for dots.
fill_dots, dots_fill	Fill adjustment for dots.

Examples

```
library(ggplot2)
library(see)

ggplot(iris, aes(x = Species, y = Sepal.Length, fill = Species)) +
  geom_violindot() +
  theme_modern()
```

geom_violinhalf *Half-violin plot*

Description

Create a half-violin plot.

Usage

```
geom_violinhalf(
  mapping = NULL,
  data = NULL,
  stat = "ydensity",
  position = "dodge",
  trim = TRUE,
  scale = "area",
  show.legend = NA,
  inherit.aes = TRUE,
  ...
)
```

Arguments

mapping	Set of aesthetic mappings created by aes() or aes_() . If specified and <code>inherit.aes = TRUE</code> (the default), it is combined with the default mapping at the top level of the plot. You must supply mapping if there is no plot mapping.
data	The data to be displayed in this layer. There are three options: If <code>NULL</code> , the default, the data is inherited from the plot data as specified in the call to ggplot() . A <code>data.frame</code> , or other object, will override the plot data. All objects will be fortified to produce a data frame. See fortify() for which variables will be created. A function will be called with a single argument, the plot data. The return value must be a <code>data.frame</code> , and will be used as the layer data. A function can be created from a formula (e.g. <code>~ head(.x, 10)</code>).
stat	The statistical transformation to use on the data for this layer, as a string.

position	Position adjustment, either as a string, or the result of a call to a position adjustment function.
trim	If TRUE (default), trim the tails of the violins to the range of the data. If FALSE, don't trim the tails.
scale	if "area" (default), all violins have the same area (before trimming the tails). If "count", areas are scaled proportionally to the number of observations. If "width", all violins have the same maximum width.
show.legend	logical. Should this layer be included in the legends? NA, the default, includes if any aesthetics are mapped. FALSE never includes, and TRUE always includes. It can also be a named logical vector to finely select the aesthetics to display.
inherit.aes	If FALSE, overrides the default aesthetics, rather than combining with them. This is most useful for helper functions that define both data and aesthetics and shouldn't inherit behaviour from the default plot specification, e.g. <code>borders()</code> .
...	Other arguments passed on to <code>layer()</code> . These are often aesthetics, used to set an aesthetic to a fixed value, like <code>colour = "red"</code> or <code>size = 3</code> . They may also be parameters to the paired geom/stat.

See Also

<https://stackoverflow.com/questions/52034747/plot-only-one-side-half-of-the-violin-plot>

Examples

```
library(ggplot2)
library(see)

ggplot(iris, aes(x = Species, y = Sepal.Length, fill = Species)) +
  geom_violinhalf() +
  theme_modern() +
  scale_fill_material_d()
```

golden_ratio

Golden Ratio

Description

Returns the golden ratio (1.618034...). Useful to easily obtain golden proportions, for instance for a horizontal figure, if you want its height to be 8, you can set its width to be `golden_ratio(8)`.

Usage

```
golden_ratio(x = 1)
```

Arguments

x A number to be multiplied by the golden ratio. The default (`x=1`) returns the value of the golden ratio.

Examples

```
golden_ratio()
golden_ratio(10)
```

material_colors	<i>Extract material design colors as hex codes</i>
-----------------	--

Description

Can be used to get the hex code of specific colors from the material design color palette. Use `material_colors()` to see all available color.

Usage

```
material_colors(...)
```

Arguments

... Character names of colors.

Value

A character vector with color-codes.

Examples

```
material_colors()
material_colors("indigo", "lime")
```

metro_colors	<i>Extract Metro colors as hex codes</i>
--------------	--

Description

Can be used to get the hex code of specific colors from the Metro color palette. Use `metro_colors()` to see all available color.

Usage

```
metro_colors(...)
```

Arguments

... Character names of colors.

Value

A character vector with color-codes.

Examples

```
metro_colors()
```

```
metro_colors("dark red", "teal")
```

palette_bluebrown	<i>Blue-brown design color palette</i>
-------------------	--

Description

The palette based on blue-brown colors.

Usage

```
palette_bluebrown(palette = "contrast", reverse = FALSE, ...)
```

Arguments

palette	Character name of palette. Depending on the color scale, can be "full", "ice", "rainbow", "complement", "contrast" or "light" (for dark themes).
reverse	Boolean indicating whether the palette should be reversed.
...	Additional arguments to pass to <code>colorRampPalette()</code> .

Details

This function is usually not called directly, but from within `scale_color_bluebrown()`.

palette_flat	<i>Flat UI color palette</i>
--------------	------------------------------

Description

The palette based on Flat UI colors (<https://www.materialui.co/flatuicolors>).

Usage

```
palette_flat(palette = "contrast", reverse = FALSE, ...)
```

Arguments

palette	Character name of palette. Depending on the color scale, can be "full", "ice", "rainbow", "complement", "contrast" or "light" (for dark themes).
reverse	Boolean indicating whether the palette should be reversed.
...	Additional arguments to pass to <code>colorRampPalette()</code> .

Details

This function is usually not called directly, but from within `scale_color_flat()`.

palette_material	<i>Material design color palette</i>
------------------	--------------------------------------

Description

The palette based on material design colors (<https://www.materialui.co/colors>).

Usage

```
palette_material(palette = "contrast", reverse = FALSE, ...)
```

Arguments

palette	Character name of palette. Depending on the color scale, can be "full", "ice", "rainbow", "complement", "contrast" or "light" (for dark themes).
reverse	Boolean indicating whether the palette should be reversed.
...	Additional arguments to pass to <code>colorRampPalette()</code> .

Details

This function is usually not called directly, but from within `scale_color_material()`.

palette_metro	<i>Metro color palette</i>
---------------	----------------------------

Description

The palette based on Metro colors (<https://www.materialui.co/metrocolors>).

Usage

```
palette_metro(palette = "complement", reverse = FALSE, ...)
```


Arguments

palette	Character name of palette. Depending on the color scale, can be "full", "ice", "rainbow", "complement", "contrast" or "light" (for dark themes).
reverse	Boolean indicating whether the palette should be reversed.
...	Additional arguments to pass to <code>colorRampPalette()</code> .

Details

This function is usually not called directly, but from within `scale_color_metro()`.

palette_pizza	<i>Pizza color palette</i>
---------------	----------------------------

Description

The palette based on authentic neapolitan pizzas.

Usage

```
palette_pizza(palette = "margherita", reverse = FALSE, ...)
```

Arguments

palette	Pizza type. Can be "margherita" (default), "margherita_crust", "diavola" or "diavola_crust".
reverse	Boolean indicating whether the palette should be reversed.
...	Additional arguments to pass to <code>colorRampPalette()</code> .

Details

This function is usually not called directly, but from within `scale_color_pizza()`.

palette_see	<i>See design color palette</i>
-------------	---------------------------------

Description

See design color palette.

Usage

```
palette_see(palette = "contrast", reverse = FALSE, ...)
```

Arguments

palette	Character name of palette. Depending on the color scale, can be "full", "ice", "rainbow", "complement", "contrast" or "light" (for dark themes).
reverse	Boolean indicating whether the palette should be reversed.
...	Additional arguments to pass to <code>colorRampPalette()</code> .

Details

This function is usually not called directly, but from within `scale_color_see()`.

palette_social	<i>Social color palette</i>
----------------	-----------------------------

Description

The palette based on Social colors (<https://www.materialui.co/socialcolors>).

Usage

```
palette_social(palette = "complement", reverse = FALSE, ...)
```

Arguments

palette	Character name of palette. Depending on the color scale, can be "full", "ice", "rainbow", "complement", "contrast" or "light" (for dark themes).
reverse	Boolean indicating whether the palette should be reversed.
...	Additional arguments to pass to <code>colorRampPalette()</code> .

Details

This function is usually not called directly, but from within `scale_color_social()`.

pizza_colors	<i>Extract pizza colors as hex codes</i>
--------------	--

Description

Extract pizza colors as hex codes

Usage

```
pizza_colors(...)
```

Arguments

... Character names of pizza ingredients.

Value

A character vector with color-codes.

plot.see_bayesfactor_models

Plot method for Bayes Factors for model comparison

Description

The plot() method for the bayestestR::bayesfactor_models() function. These plots visualize the **posterior probabilities** of the compared models.

Usage

```
## S3 method for class 'see_bayesfactor_models'
plot(
  x,
  n_pies = c("one", "many"),
  value = c("none", "BF", "probability"),
  sort = FALSE,
  log = FALSE,
  prior_odds = NULL,
  ...
)
```

Arguments

x An object.

n_pies Number of pies.

value What value to display.

sort **Plotting model parameters** If NULL, coefficients are plotted in the order as they appear in the summary. Use sort = "ascending" (or sort = TRUE) resp. sort = "descending" to sort coefficients in ascending or descending order.
Plotting Bayes factors Sort pie-slices by posterior probability (descending)?

log Show log-transformed Bayes factors.

prior_odds optional vector of prior odds for the models. See BayesFactor::priorOdds. As the size of the pizza slices corresponds to posterior probability (which is a function of prior probability and the BF), custom prior_odds will change the slices' size.

... Arguments passed to or from other methods.

Value

A ggplot2-object.

Examples

```
library(bayestestR)
library(see)

lm0 <- lm(qsec ~ 1, data = mtcars)
lm1 <- lm(qsec ~ drat, data = mtcars)
lm2 <- lm(qsec ~ wt, data = mtcars)
lm3 <- lm(qsec ~ drat + wt, data = mtcars)

result <- bayesfactor_models(lm1, lm2, lm3, denominator = lm0)

plot(result, n_pies = "one", value = "probability", sort = TRUE) +
  scale_fill_pizza(reverse = TRUE)

plot(result, n_pies = "many", value = "BF", log = TRUE) +
  scale_fill_pizza(reverse = FALSE)
```

plot.see_bayesfactor_parameters

Plot method for Bayes Factors for a single parameter

Description

The plot() method for the bayestestR::bayesfactor_parameters() function.

Usage

```
## S3 method for class 'see_bayesfactor_parameters'
plot(
  x,
  size_point = 2,
  rope_color = "#0171D3",
  rope_alpha = 0.2,
  show_intercept = FALSE,
  ...
)
```

Arguments

x	An object.
size_point	Size of point-geoms.
rope_color	Color of ROPE ribbon.
rope_alpha	Transparency level of ROPE ribbon.

`show_intercept` Logical, if TRUE, the intercept-parameter is included in the plot. By default, it is hidden because in many cases the intercept-parameter has a posterior distribution on a very different location, so density curves of posterior distributions for other parameters are hardly visible.

... Arguments passed to or from other methods.

Value

A ggplot2-object.

plot.see_check_collinearity
Plot method for multicollinearity checks

Description

The `plot()` method for the `performance::check_collinearity()` function.

Usage

```
## S3 method for class 'see_check_collinearity'
plot(x, data = NULL, ...)
```

Arguments

`x` An object.

`data` The original data used to create this object. Can be a statistical model or such.

... Arguments passed to or from other methods.

Value

A ggplot2-object.

Examples

```
library(performance)
m <- lm(mpg ~ wt + cyl + gear + disp, data = mtcars)
result <- check_collinearity(m)
result
plot(result)
```

plot.see_check_distribution

Plot method for classifying the distribution of a model-family

Description

The plot() method for the performance::check_distribution() function.

Usage

```
## S3 method for class 'see_check_distribution'  
plot(x, size_point = 2, panel = TRUE, ...)
```

Arguments

x	An object.
size_point	Size of point-geoms.
panel	Logical, if TRUE, plots are arranged as panels; else, single plots are returned.
...	Arguments passed to or from other methods.

Value

A ggplot2-object.

Examples

```
library(performance)  
m <- lm(mpg ~ wt + cyl + gear + disp, data = mtcars)  
result <- check_distribution(m)  
result  
plot(result)
```

plot.see_check_heteroscedasticity

Plot method for (non-)constant error variance checks

Description

The plot() method for the performance::check_heteroscedasticity() function.

Usage

```
## S3 method for class 'see_check_heteroscedasticity'  
plot(x, data = NULL, ...)
```

Arguments

x An object.
data The original data used to create this object. Can be a statistical model or such.
... Arguments passed to or from other methods.

Value

A ggplot2-object.

Examples

```
library(performance)
m <- lm(mpg ~ wt + cyl + gear + disp, data = mtcars)
result <- check_heteroscedasticity(m)
result
plot(result, data = m) # data required for pkgdown
```

plot.see_check_homogeneity

Plot method for homogeneity of variances checks

Description

The plot() method for the performance::check_homogeneity() function.

Usage

```
## S3 method for class 'see_check_homogeneity'
plot(x, data = NULL, ...)
```

Arguments

x An object.
data The original data used to create this object. Can be a statistical model or such.
... Arguments passed to or from other methods.

Value

A ggplot2-object.

Examples

```
library(performance)
model <- lm(len ~ supp + dose, data = ToothGrowth)
result <- check_homogeneity(model)
result
plot(result)
```

`plot.see_check_normality`*Plot method for check model for (non-)normality of residuals*

Description

The `plot()` method for the `performance::check_normality()` function.

Usage

```
## S3 method for class 'see_check_normality'
plot(
  x,
  type = c("density", "qq", "pp"),
  data = NULL,
  size_line = 0.8,
  size_point = 2,
  alpha = 0.2,
  ...
)
```

Arguments

<code>x</code>	An object.
<code>type</code>	Character vector, indicating the type of plot.
<code>data</code>	The original data used to create this object. Can be a statistical model or such.
<code>size_line</code>	Size of line geoms.
<code>size_point</code>	Size of point-geoms.
<code>alpha</code>	ALpha level of the confidence bands.
<code>...</code>	Arguments passed to or from other methods.

Value

A `ggplot2`-object.

Examples

```
library(performance)
m <- lm(mpg ~ wt + cyl + gear + disp, data = mtcars)
result <- check_normality(m)
plot(result)
```

```
plot.see_check_outliers
```

Plot method for checking outliers

Description

The plot() method for the performance::check_outliers() function.

Usage

```
## S3 method for class 'see_check_outliers'  
plot(x, size_text = 3.5, ...)
```

Arguments

x	An object.
size_text	Size of text labels.
...	Arguments passed to or from other methods.

Value

A ggplot2-object.

Examples

```
library(performance)  
data(mtcars)  
mt1 <- mtcars[, c(1, 3, 4)]  
mt2 <- rbind(  
  mt1,  
  data.frame(mpg = c(37, 40), disp = c(300, 400), hp = c(110, 120))  
)  
model <- lm(disp ~ mpg + hp, data = mt2)  
plot(check_outliers(model))
```

```
plot.see_cluster_analysis
```

Plot method for computing cluster analysis

Description

The plot() method for the parameters::cluster_analysis() function.

Usage

```
## S3 method for class 'see_cluster_analysis'  
plot(x, data = NULL, n_columns = NULL, size_bar = 0.6, ...)
```

Arguments

x	An object.
data	The original data used to create this object. Can be a statistical model or such.
n_columns	For models with multiple components (like fixed and random, count and zero-inflated), defines the number of columns for the panel-layout. If NULL, a single, integrated plot is shown.
size_bar	Size of bar geoms.
...	Arguments passed to or from other methods.

Value

A ggplot2-object.

Examples

```
library(parameters)
groups <- cluster_analysis(iris[, 1:4], 3)
plot(groups)
```

plot.see_compare_performance

Plot method for comparing model performances

Description

The plot() method for the performance::compare_performance() function.

Usage

```
## S3 method for class 'see_compare_performance'
plot(x, size_line = 1, ...)
```

Arguments

x	An object.
size_line	Size of line geoms.
...	Arguments passed to or from other methods.

Value

A ggplot2-object.

Examples

```
library(performance)
data(iris)
lm1 <- lm(Sepal.Length ~ Species, data = iris)
lm2 <- lm(Sepal.Length ~ Species + Petal.Length, data = iris)
lm3 <- lm(Sepal.Length ~ Species * Petal.Length, data = iris)
result <- compare_performance(lm1, lm2, lm3)
result
plot(result)
```

```
plot.see_easycormatrix
```

Plot method for correlation matrices

Description

The plot() method for the correlation::correlation() function.

Usage

```
## S3 method for class 'see_easycormatrix'
plot(
  x,
  show_values = FALSE,
  show_p = FALSE,
  show_legend = TRUE,
  size_point = 1,
  size_text = 3.5,
  digits = 3,
  type = c("circle", "tile"),
  ...
)
```

Arguments

x	An object.
show_values	Logical, if TRUE, values are displayed.
show_p	Logical, if TRUE, p-values or significant level is displayed.
show_legend	Logical, show or hide legend.
size_point	Size of point-geoms.
size_text	Size of text labels.
digits	Number of decimals used for values.
type	Character vector, indicating the type of plot.
...	Arguments passed to or from other methods.

Value

A ggplot2-object.

Examples

```
library(correlation)
data(mtcars)
result <- correlation(mtcars[, -c(8:9)])
s <- summary(result)
plot(s)
```

plot.see_easycorrelation

Plot method for Gaussian Graphical Models

Description

The plot() method for the correlation::correlation() function.

Usage

```
## S3 method for class 'see_easycorrelation'
plot(x, size_point = 22, text_color = "white", node_color = "#647687", ...)
```

Arguments

x	An object.
size_point	Size of point-geoms.
text_color	Color of text labels.
node_color	Color of node- or circle-geoms.
...	Arguments passed to or from other methods.

Value

A ggplot2-object.

Examples

```
## Not run:
library(correlation)
library(ggraph)
result <- correlation(mtcars, partial = TRUE)
plot(result)

## End(Not run)
```

```
plot.see_effectsize_table
```

Plot method for effect size tables

Description

The plot() method for the effectsize::effectsize() function.

Usage

```
## S3 method for class 'see_effectsize_table'  
plot(x, ...)
```

Arguments

x	An object.
...	Arguments passed to or from other methods.

Value

A ggplot2-object.

Examples

```
library(effectsize)  
m <- aov(mpg ~ factor(am) * factor(cyl), data = mtcars)  
result <- eta_squared(m)  
plot(result)
```

```
plot.see_equivalence_test_effectsize
```

Plot method for (conditional) equivalence testing

Description

The plot() method for the bayestestR::equivalence_test() function.

Usage

```
## S3 method for class 'see_equivalence_test_effectsize'  
plot(x, ...)  
  
## S3 method for class 'see_equivalence_test'  
plot(  
  x,  
  rope_color = "#0171D3",
```

```

    rope_alpha = 0.2,
    show_intercept = FALSE,
    n_columns = 1,
    ...
  )

## S3 method for class 'see_equivalence_test_lm'
plot(
  x,
  size_point = 0.7,
  rope_color = "#0171D3",
  rope_alpha = 0.2,
  show_intercept = FALSE,
  n_columns = 1,
  ...
)

```

Arguments

<code>x</code>	An object.
<code>...</code>	Arguments passed to or from other methods.
<code>rope_color</code>	Color of ROPE ribbon.
<code>rope_alpha</code>	Transparency level of ROPE ribbon.
<code>show_intercept</code>	Logical, if TRUE, the intercept-parameter is included in the plot. By default, it is hidden because in many cases the intercept-parameter has a posterior distribution on a very different location, so density curves of posterior distributions for other parameters are hardly visible.
<code>n_columns</code>	For models with multiple components (like fixed and random, count and zero-inflated), defines the number of columns for the panel-layout. If NULL, a single, integrated plot is shown.
<code>size_point</code>	Size of point-geoms.

Value

A ggplot2-object.

Examples

```

library(effects)
m <- aov(mpg ~ factor(am) * factor(cyl), data = mtcars)
result <- eta_squared(m)
plot(result)

```

 plot.see_estimate_contrasts

Plot method for estimating contrasts

Description

The plot() method for the modelbased::estimate_contrasts() function.

Usage

```
## S3 method for class 'see_estimate_contrasts'
plot(x, data = NULL, ...)
```

Arguments

x	An object.
data	The original data used to create this object. Can be a statistical model or such.
...	Arguments passed to or from other methods.

Value

A ggplot2-object.

Examples

```
if (require("modelbased") && require("rstanarm")) {
  model <- stan_glm(Sepal.Width ~ Species, data = iris, refresh = 0)
  contrasts <- estimate_contrasts(model)
  means <- estimate_means(model)
  plot(contrasts, means)
}
```

 plot.see_estimate_density

Plot method for density estimation of posterior samples

Description

The plot() method for the bayestestR::estimate_density() function.

Usage

```
## S3 method for class 'see_estimate_density'
plot(
  x,
  stack = TRUE,
  show_intercept = FALSE,
  n_columns = 1,
  priors = FALSE,
  priors_alpha = 0.4,
  posteriors_alpha = 0.7,
  size_line = 0.9,
  size_point = 2,
  centrality = "median",
  ci = 0.95,
  ...
)
```

Arguments

x	An object.
stack	Logical, if TRUE, densities are plotted as stacked lines. Else, densities are plotted for each parameter among each other.
show_intercept	Logical, if TRUE, the intercept-parameter is included in the plot. By default, it is hidden because in many cases the intercept-parameter has a posterior distribution on a very different location, so density curves of posterior distributions for other parameters are hardly visible.
n_columns	For models with multiple components (like fixed and random, count and zero-inflated), defines the number of columns for the panel-layout. If NULL, a single, integrated plot is shown.
priors	Logical, if TRUE, prior distributions are simulated (using simulate_prior()) and added to the plot.
priors_alpha	Alpha value of the prior distributions.
posteriors_alpha	Alpha value of the posterior distributions.
size_line	Size of line geoms.
size_point	Size of point-geoms.
centrality	The point-estimate (centrality index) to compute. May be "median", "mean" or "MAP".
ci	Value of probability of the CI (between 0 and 1) to be estimated. Default to .95.
...	Arguments passed to or from other methods.

Value

A ggplot2-object.

Examples

```

if (require("bayestestR") && require("rstanarm")) {
  set.seed(123)
  m <- stan_glm(Sepal.Length ~ Petal.Width * Species, data = iris, refresh = 0)
  result <- estimate_density(m)
  plot(result)
}

```

plot.see_hdi

Plot method for uncertainty or credible intervals

Description

The `plot()` method for the `bayestestR::hdi()` and related function.

Usage

```

## S3 method for class 'see_hdi'
plot(
  x,
  data = NULL,
  show_intercept = FALSE,
  show_zero = TRUE,
  show_title = TRUE,
  n_columns = 1,
  ...
)

```

Arguments

<code>x</code>	An object.
<code>data</code>	The original data used to create this object. Can be a statistical model or such.
<code>show_intercept</code>	Logical, if TRUE, the intercept-parameter is included in the plot. By default, it is hidden because in many cases the intercept-parameter has a posterior distribution on a very different location, so density curves of posterior distributions for other parameters are hardly visible.
<code>show_zero</code>	Logical, if TRUE, will add a vertical (dotted) line at 0.
<code>show_title</code>	Logical, if TRUE, will show the title of the plot.
<code>n_columns</code>	For models with multiple components (like fixed and random, count and zero-inflated), defines the number of columns for the panel-layout. If NULL, a single, integrated plot is shown.
<code>...</code>	Arguments passed to or from other methods.

Value

A ggplot2-object.

Examples

```
if (require("bayestestR") && require("rstanarm")) {
  set.seed(123)
  m <- stan_glm(Sepal.Length ~ Petal.Width * Species, data = iris, refresh = 0)
  result <- hdi(m)
  result
  plot(result)
}
```

plot.see_n_factors *Plot method for numbers of clusters to extract or factors to retain*

Description

The plot() method for the parameters::n_factors() and parameters::n_clusters()

Usage

```
## S3 method for class 'see_n_factors'
plot(x, data = NULL, type = c("bar", "line", "area"), size = 1, ...)
```

Arguments

x	An object.
data	The original data used to create this object. Can be a statistical model or such.
type	Character vector, indicating the type of plot.
size	Depending on type, size of bars, lines or segments.
...	Arguments passed to or from other methods.

Value

A ggplot2-object.

Examples

```
if (require("parameters") && require("nFactors")) {
  data(mtcars)
  result <- n_factors(mtcars, type = "PCA")
  result
  plot(result, type = "line")
}
```

 plot.see_parameters_brms_meta

Plot method for Model Parameters from Bayesian Meta-Analysis

Description

The `plot()` method for the `parameters::model_parameters()` function when used with `brms-meta-analysis` models.

Usage

```
## S3 method for class 'see_parameters_brms_meta'
plot(
  x,
  size_point = 2,
  size_line = 0.8,
  size_text = 3.5,
  posteriors_alpha = 0.7,
  rope_alpha = 0.15,
  rope_color = "cadetblue",
  normalize_height = TRUE,
  ...
)
```

Arguments

<code>x</code>	An object.
<code>size_point</code>	Size of point-geoms.
<code>size_line</code>	Size of line geoms.
<code>size_text</code>	Size of text labels.
<code>posteriors_alpha</code>	Alpha value of the posterior distributions.
<code>rope_alpha</code>	Transparency level of ROPE ribbon.
<code>rope_color</code>	Color of ROPE ribbon.
<code>normalize_height</code>	Logical, if TRUE, height of mcmc-areas is "normalized", to avoid overlap. In certain cases when the range of a posterior distribution is narrow for some parameters, this may result in very flat mcmc-areas. In such cases, set <code>normalize_height = FALSE</code> .
<code>...</code>	Arguments passed to or from other methods.

Details

Colors of density areas and errorbars: To change the colors of the density areas, use `scale_fill_manual()` with named color-values, e.g. `scale_fill_manual(values = c("Study" = "blue", "Overall" = "green"))`. To change the color of the error bars, use `scale_color_manual(values = c("Errorbar" = "red"))`.

Show or hide estimates and CI: Use `size_text = NULL` or `size_text = NA` to hide the textual output of estimates and credible intervals.

Value

A `ggplot2`-object.

Examples

```
## Not run:
if (require("bayestestR") && require("brms") && require("metafor")) {+
  # data
  data(dat.bcg)
  dat <- escalc(
    measure = "RR",
    ai = tpos,
    bi = tneg,
    ci = cpos,
    di = cneg,
    data = dat.bcg
  )
  dat$author <- make.unique(dat$author)

  # model
  set.seed(123)
  priors <- c(prior(normal(0,1), class = Intercept),
    prior(cauchy(0,0.5), class = sd))
  model <- brm(yi | se(vi) ~ 1 + (1 | author), data = dat)

  # result
  mp <- model_parameters(model)
  plot(mp)
}

## End(Not run)
```

plot.see_parameters_distribution

Plot method for describing distributions of vectors

Description

The `plot()` method for the `parameters::describe_distribution()` function.

Usage

```
## S3 method for class 'see_parameters_distribution'
plot(
  x,
  dispersion = FALSE,
  dispersion_alpha = 0.3,
  dispersion_color = "#3498db",
  dispersion_style = c("ribbon", "curve"),
  size_bar = 0.7,
  highlight = NULL,
  highlight_color = NULL,
  ...
)
```

Arguments

<code>x</code>	An object.
<code>dispersion</code>	Logical, if TRUE, will add range of dispersion for each variable to the plot.
<code>dispersion_alpha</code>	Transparency level of dispersion ribbon.
<code>dispersion_color</code>	Color of dispersion ribbon.
<code>dispersion_style</code>	Character, style of dispersion area. "ribbon" for a ribbon, "curve" for a normal-curve.
<code>size_bar</code>	Size of bar geoms.
<code>highlight</code>	Vector with names of categories in <code>x</code> that should be highlighted.
<code>highlight_color</code>	Vector of color values for highlighted categories. The remaining (non-highlighted) categories will be filled with a lighter grey.
<code>...</code>	Arguments passed to or from other methods.

Value

A ggplot2-object.

Examples

```
library(parameters)
set.seed(333)
x <- sample(1:100, 1000, replace = TRUE)
result <- describe_distribution(x)
result
plot(result)
```

```
plot.see_parameters_model
```

Plot method for model parameters

Description

The `plot()` method for the `parameters::model_parameters()` function.

Usage

```
## S3 method for class 'see_parameters_model'
plot(
  x,
  show_intercept = FALSE,
  size_point = 0.8,
  size_text = NULL,
  sort = NULL,
  n_columns = NULL,
  type = c("forest", "funnel"),
  weight_points = TRUE,
  ...
)

## S3 method for class 'see_parameters_sem'
plot(
  x,
  data = NULL,
  type = c("regression", "correlation", "loading"),
  threshold_coefficient = NULL,
  threshold_p = NULL,
  ci = TRUE,
  size_point = 22,
  ...
)
```

Arguments

<code>x</code>	An object.
<code>show_intercept</code>	Logical, if TRUE, the intercept-parameter is included in the plot. By default, it is hidden because in many cases the intercept-parameter has a posterior distribution on a very different location, so density curves of posterior distributions for other parameters are hardly visible.
<code>size_point</code>	Size of point-geoms.
<code>size_text</code>	Size of text labels.

sort	Plotting model parameters If NULL, coefficients are plotted in the order as they appear in the summary. Use sort = "ascending" (or sort = TRUE)) resp. sort = "descending" to sort coefficients in ascending or descending order. Plotting Bayes factors Sort pie-slices by posterior probability (descending)?
n_columns	For models with multiple components (like fixed and random, count and zero-inflated), defines the number of columns for the panel-layout. If NULL, a single, integrated plot is shown.
type	Indicating the type of plot. Only applies for model parameters from meta-analysis objects (e.g. metafor).
weight_points	Logical, if TRUE, for meta-analysis objects, point size will be adjusted according to the study-weights.
...	Arguments passed to or from other methods.
data	The original data used to create this object. Can be a statistical model or such.
threshold_coefficient	Numeric, threshold at which value coefficients will be displayed.
threshold_p	Numeric, threshold at which value p-values will be displayed.
ci	Logical, whether confidence intervals should be added to the plot.#'

Value

A ggplot2-object.

Examples

```
library(parameters)
m <- lm(mpg ~ wt + cyl + gear + disp, data = mtcars)
result <- model_parameters(m)
result
plot(result)
```

plot.see_parameters_pca

Plot method for principal component analysis

Description

The plot() method for the parameters::principal_components() function.

Usage

```
## S3 method for class 'see_parameters_pca'
plot(
  x,
  type = c("bar", "line"),
  size_text = 3.5,
```

```

    text_color = "black",
    size = 1,
    ...
  )

```

Arguments

x	An object.
type	Character vector, indicating the type of plot.
size_text	Size of text labels.
text_color	Color of text labels.
size	Depending on type, size of bars, lines or segments.
...	Arguments passed to or from other methods.

Value

A ggplot2-object.

Examples

```

library(parameters)
data(mtcars)
result <- principal_components(mtcars[, 1:7], n = "all", threshold = 0.2)
result
plot(result)

```

plot.see_parameters_simulate

Plot method for simulated model parameters

Description

The plot() method for the parameters::simulate_parameters() function.

Usage

```

## S3 method for class 'see_parameters_simulate'
plot(
  x,
  data = NULL,
  stack = TRUE,
  show_intercept = FALSE,
  n_columns = NULL,
  normalize_height = FALSE,
  size_line = 0.9,
  posteriors_alpha = 0.7,

```



```

    centrality = "median",
    ci = 0.95,
    ...
  )

```

Arguments

x	An object.
data	The original data used to create this object. Can be a statistical model or such.
stack	Logical, if TRUE, densities are plotted as stacked lines. Else, densities are plotted for each parameter among each other.
show_intercept	Logical, if TRUE, the intercept-parameter is included in the plot. By default, it is hidden because in many cases the intercept-parameter has a posterior distribution on a very different location, so density curves of posterior distributions for other parameters are hardly visible.
n_columns	For models with multiple components (like fixed and random, count and zero-inflated), defines the number of columns for the panel-layout. If NULL, a single, integrated plot is shown.
normalize_height	Logical, if TRUE, height of density-areas is "normalized", to avoid overlap. In certain cases when the range of a distribution of simulated draws is narrow for some parameters, this may result in very flat density-areas. In such cases, set <code>normalize_height = FALSE</code> .
size_line	Size of line geoms.
posteriors_alpha	Alpha value of the posterior distributions.
centrality	The point-estimate (centrality index) to compute. May be "median", "mean" or "MAP".
ci	Value of probability of the CI (between 0 and 1) to be estimated. Default to .95.
...	Arguments passed to or from other methods.

Value

A ggplot2-object.

Examples

```

library(parameters)
m <- lm(mpg ~ wt + cyl + gear, data = mtcars)
result <- simulate_parameters(m)
result
plot(result)

```

`plot.see_performance_roc`*Plot method for ROC curves*

Description

The `plot()` method for the `performance::performance_roc()` function.

Usage

```
## S3 method for class 'see_performance_roc'  
plot(x, ...)
```

Arguments

`x` An object.
`...` Arguments passed to or from other methods.

Value

A `ggplot2`-object.

Examples

```
library(performance)  
data(iris)  
set.seed(123)  
iris$y <- rbinom(nrow(iris), size = 1, .3)  
  
folds <- sample(nrow(iris), size = nrow(iris) / 8, replace = FALSE)  
test_data <- iris[folds, ]  
train_data <- iris[-folds, ]  
  
model <- glm(y ~ Sepal.Length + Sepal.Width, data = train_data, family = "binomial")  
result <- performance_roc(model, new_data = test_data)  
result  
plot(result)
```

`plot.see_point_estimate`*Plot method for point estimates of posterior samples*

Description

The `plot()` method for the `bayestestR::point_estimate()`.

Usage

```
## S3 method for class 'see_point_estimate'
plot(
  x,
  data = NULL,
  size_point = 2,
  size_text = 3.5,
  panel = TRUE,
  show_labels = TRUE,
  show_intercept = FALSE,
  priors = FALSE,
  priors_alpha = 0.4,
  ...
)
```

Arguments

x	An object.
data	The original data used to create this object. Can be a statistical model or such.
size_point	Size of point-geoms.
size_text	Size of text labels.
panel	Logical, if TRUE, plots are arranged as panels; else, single plots are returned.
show_labels	Logical, if TRUE, the text labels for the point estimates (i.e. <i>"Mean"</i> , <i>"Median"</i> and/or <i>"MAP"</i>) are shown. You may set <code>show_labels = FALSE</code> in case of overlapping labels, and add your own legend or footnote to the plot.
show_intercept	Logical, if TRUE, the intercept-parameter is included in the plot. By default, it is hidden because in many cases the intercept-parameter has a posterior distribution on a very different location, so density curves of posterior distributions for other parameters are hardly visible.
priors	Logical, if TRUE, prior distributions are simulated (using <code>simulate_prior()</code>) and added to the plot.
priors_alpha	Alpha value of the prior distributions.
...	Arguments passed to or from other methods.

Value

A ggplot2-object.

Examples

```
if (require("bayestestR") && require("rstanarm")) {
  set.seed(123)
  m <- stan_glm(Sepal.Length ~ Petal.Width * Species, data = iris, refresh = 0)
  result <- point_estimate(m, centrality = "median")
  result
}
```

```

  plot(result)
}

```

plot.see_p_direction *Plot method for probability of direction*

Description

The `plot()` method for the `bayestestR::p_direction()` function.

Usage

```

## S3 method for class 'see_p_direction'
plot(
  x,
  data = NULL,
  show_intercept = FALSE,
  priors = FALSE,
  priors_alpha = 0.4,
  n_columns = 1,
  ...
)

```

Arguments

<code>x</code>	An object.
<code>data</code>	The original data used to create this object. Can be a statistical model or such.
<code>show_intercept</code>	Logical, if TRUE, the intercept-parameter is included in the plot. By default, it is hidden because in many cases the intercept-parameter has a posterior distribution on a very different location, so density curves of posterior distributions for other parameters are hardly visible.
<code>priors</code>	Logical, if TRUE, prior distributions are simulated (using <code>simulate_prior()</code>) and added to the plot.
<code>priors_alpha</code>	Alpha value of the prior distributions.
<code>n_columns</code>	For models with multiple components (like fixed and random, count and zero-inflated), defines the number of columns for the panel-layout. If NULL, a single, integrated plot is shown.
<code>...</code>	Arguments passed to or from other methods.

Value

A `ggplot2`-object.

Examples

```

if (require("bayestestR") && require("rstanarm")) {
  set.seed(123)
  m <- stan_glm(Sepal.Length ~ Petal.Width * Species, data = iris, refresh = 0)
  result <- p_direction(m)
  plot(result)
}

```

plot.see_p_significance

Plot method for practical significance

Description

The `plot()` method for the `bayestestR::p_significance()` function.

Usage

```

## S3 method for class 'see_p_significance'
plot(
  x,
  data = NULL,
  show_intercept = FALSE,
  priors = FALSE,
  priors_alpha = 0.4,
  n_columns = 1,
  ...
)

```

Arguments

<code>x</code>	An object.
<code>data</code>	The original data used to create this object. Can be a statistical model or such.
<code>show_intercept</code>	Logical, if TRUE, the intercept-parameter is included in the plot. By default, it is hidden because in many cases the intercept-parameter has a posterior distribution on a very different location, so density curves of posterior distributions for other parameters are hardly visible.
<code>priors</code>	Logical, if TRUE, prior distributions are simulated (using <code>simulate_prior()</code>) and added to the plot.
<code>priors_alpha</code>	Alpha value of the prior distributions.
<code>n_columns</code>	For models with multiple components (like fixed and random, count and zero-inflated), defines the number of columns for the panel-layout. If NULL, a single, integrated plot is shown.
<code>...</code>	Arguments passed to or from other methods.

Value

A ggplot2-object.

Examples

```
if (require("bayestestR") && require("rstanarm")) {
  set.seed(123)
  m <- stan_glm(Sepal.Length ~ Petal.Width * Species, data = iris, refresh = 0)
  result <- p_significance(m)
  plot(result)
}
```

plot.see_rope

Plot method for Region of Practical Equivalence

Description

The plot() method for the bayestestR::rope().

Usage

```
## S3 method for class 'see_rope'
plot(
  x,
  data = NULL,
  rope_alpha = 0.5,
  rope_color = "cadetblue",
  show_intercept = FALSE,
  n_columns = 1,
  ...
)
```

Arguments

x	An object.
data	The original data used to create this object. Can be a statistical model or such.
rope_alpha	Transparency level of ROPE ribbon.
rope_color	Color of ROPE ribbon.
show_intercept	Logical, if TRUE, the intercept-parameter is included in the plot. By default, it is hidden because in many cases the intercept-parameter has a posterior distribution on a very different location, so density curves of posterior distributions for other parameters are hardly visible.
n_columns	For models with multiple components (like fixed and random, count and zero-inflated), defines the number of columns for the panel-layout. If NULL, a single, integrated plot is shown.
...	Arguments passed to or from other methods.

Value

A ggplot2-object.

Examples

```
if (require("bayestestR") && require("rstanarm")) {
  set.seed(123)
  m <- stan_glm(Sepal.Length ~ Petal.Width * Species, data = iris, refresh = 0)
  result <- rope(m)
  result
  plot(result)
}
```

plot.see_si

Plot method for support intervals

Description

The plot() method for the bayestestR::si().

Usage

```
## S3 method for class 'see_si'
plot(
  x,
  si_color = "#0171D3",
  si_alpha = 0.2,
  show_intercept = FALSE,
  support_only = FALSE,
  ...
)
```

Arguments

x	An object.
si_color	Color of SI ribbon.
si_alpha	Transparency level of SI ribbon.
show_intercept	Logical, if TRUE, the intercept-parameter is included in the plot. By default, it is hidden because in many cases the intercept-parameter has a posterior distribution on a very different location, so density curves of posterior distributions for other parameters are hardly visible.
support_only	Plot only the support data, or show the "raw" prior and posterior distributions? Only applies when plotting si .
...	Arguments passed to or from other methods.

Value

A ggplot2-object.

Examples

```
if (require("bayestestR") && require("rstanarm")) {
  set.seed(123)
  m <- stan_glm(Sepal.Length ~ Petal.Width * Species, data = iris, refresh = 0)
  result <- si(m)
  result
  plot(result)
}
```

plots

Multiple plots side by side

Description

A wrapper around `gridExtra::grid.arrange` to plot multiple figures side by side on the same page.

Usage

```
plots(..., n_rows = NULL, n_columns = NULL, tags = FALSE)
```

Arguments

<code>...</code>	grobs, gtables, ggplot or trellis objects
<code>n_rows</code>	Number of rows to align plots.
<code>n_columns</code>	Number of columns to align plots.
<code>tags</code>	Add tags to your subfigures. Can be FALSE (no tags), TRUE (letter tags) or character vector containing tags labels.

Examples

```
library(ggplot2)
library(see)

p1 <- ggplot(iris, aes(x = Petal.Length, y = Sepal.Width)) + geom_point()
p2 <- ggplot(iris, aes(x = Petal.Length)) + geom_density()

plots(p1, p2)
plots(p1, p2, n_columns = 2, tags = TRUE)
plots(p1, p2, n_columns = 2, tags = c("Fig. 1", "Fig. 2"))
```

```
print.see_performance_pp_check
  Plot method for posterior predictive checks
```

Description

The plot() method for the performance::pp_check() function.

Usage

```
## S3 method for class 'see_performance_pp_check'
print(x, size_line = 0.7, line_alpha = 0.25, size_bar = 0.7, ...)

## S3 method for class 'see_performance_pp_check'
plot(x, size_line = 0.7, line_alpha = 0.25, size_bar = 0.7, ...)
```

Arguments

x	An object.
size_line	Size of line geoms.
line_alpha	Alpha value of lines indicating yrep.
size_bar	Size of bar geoms.
...	Arguments passed to or from other methods.

Value

A ggplot2-object.

Examples

```
if (require("performance")) {
  model <- lm(Sepal.Length ~ Species * Petal.Width + Petal.Length, data = iris)
  pp_check(model)
}
```

```
scale_color_bluebrown Blue-brown color palette
```

Description

A blue-brown color palette. Use scale_color_bluebrown_d() for *discrete* categories and scale_color_bluebrown_c() for a *continuous* scale.

Usage

```
scale_color_bluebrown(  
  palette = "contrast",  
  discrete = TRUE,  
  reverse = FALSE,  
  ...  
)
```

```
scale_color_bluebrown_d(  
  palette = "contrast",  
  discrete = TRUE,  
  reverse = FALSE,  
  ...  
)
```

```
scale_color_bluebrown_c(  
  palette = "contrast",  
  discrete = FALSE,  
  reverse = FALSE,  
  ...  
)
```

```
scale_colour_bluebrown(  
  palette = "contrast",  
  discrete = TRUE,  
  reverse = FALSE,  
  ...  
)
```

```
scale_colour_bluebrown_c(  
  palette = "contrast",  
  discrete = FALSE,  
  reverse = FALSE,  
  ...  
)
```

```
scale_colour_bluebrown_d(  
  palette = "contrast",  
  discrete = TRUE,  
  reverse = FALSE,  
  ...  
)
```

```
scale_fill_bluebrown(  
  palette = "contrast",  
  discrete = TRUE,  
  reverse = FALSE,  
  ...  
)
```

```

)

scale_fill_bluebrown_d(
  palette = "contrast",
  discrete = TRUE,
  reverse = FALSE,
  ...
)

scale_fill_bluebrown_c(
  palette = "contrast",
  discrete = FALSE,
  reverse = FALSE,
  ...
)

```

Arguments

palette	Character name of palette. Depending on the color scale, can be "full", "ice", "rainbow", "complement", "contrast" or "light" (for dark themes).
discrete	Boolean indicating whether color aesthetic is discrete or not.
reverse	Boolean indicating whether the palette should be reversed.
...	Additional arguments to pass to <code>colorRampPalette()</code> .

Examples

```

library(ggplot2)
library(see)

ggplot(iris, aes(x = Species, y = Sepal.Length, fill = Species)) +
  geom_boxplot() +
  theme_modern() +
  scale_fill_bluebrown_d()

```

scale_color_flat *Flat UI color palette*

Description

The palette based on Flat UI (<https://www.materialui.co/flatuicolors>). Use `scale_color_flat_d` for *discrete* categories and `scale_color_flat_c` for a *continuous* scale.

Usage

```

scale_color_flat(palette = "contrast", discrete = TRUE, reverse = FALSE, ...)

scale_color_flat_d(palette = "contrast", discrete = TRUE, reverse = FALSE, ...)

```

```

scale_color_flat_c(
  palette = "contrast",
  discrete = FALSE,
  reverse = FALSE,
  ...
)

scale_colour_flat(palette = "contrast", discrete = TRUE, reverse = FALSE, ...)

scale_colour_flat_c(
  palette = "contrast",
  discrete = FALSE,
  reverse = FALSE,
  ...
)

scale_colour_flat_d(
  palette = "contrast",
  discrete = TRUE,
  reverse = FALSE,
  ...
)

scale_fill_flat(palette = "contrast", discrete = TRUE, reverse = FALSE, ...)

scale_fill_flat_d(palette = "contrast", discrete = TRUE, reverse = FALSE, ...)

scale_fill_flat_c(palette = "contrast", discrete = FALSE, reverse = FALSE, ...)

```

Arguments

palette	Character name of palette. Depending on the color scale, can be "full", "ice", "rainbow", "complement", "contrast" or "light" (for dark themes).
discrete	Boolean indicating whether color aesthetic is discrete or not.
reverse	Boolean indicating whether the palette should be reversed.
...	Additional arguments passed to <code>discrete_scale()</code> or <code>scale_color_gradientn()</code> , used respectively when <code>discrete</code> is <code>TRUE</code> or <code>FALSE</code> .

Examples

```

library(ggplot2)
library(see)

ggplot(iris, aes(x = Species, y = Sepal.Length, fill = Species)) +
  geom_boxplot() +
  theme_modern() +
  scale_fill_flat_d()

```

```
ggplot(iris, aes(x = Species, y = Sepal.Length, fill = Species)) +  
  geom_violin() +  
  theme_modern() +  
  scale_fill_flat_d(palette = "ice")  
  
ggplot(iris, aes(x = Petal.Length, y = Petal.Width, color = Sepal.Length)) +  
  geom_point() +  
  theme_modern() +  
  scale_color_flat_c(palette = "rainbow")
```

scale_color_material *Material design color palette*

Description

The palette based on material design colors (<https://www.materialui.co/color>). Use `scale_color_material_d()` for *discrete* categories and `scale_color_material_c()` for a *continuous* scale.

Usage

```
scale_color_material(  
  palette = "contrast",  
  discrete = TRUE,  
  reverse = FALSE,  
  ...  
)  
  
scale_color_material_d(  
  palette = "contrast",  
  discrete = TRUE,  
  reverse = FALSE,  
  ...  
)  
  
scale_color_material_c(  
  palette = "contrast",  
  discrete = FALSE,  
  reverse = FALSE,  
  ...  
)  
  
scale_colour_material(  
  palette = "contrast",  
  discrete = TRUE,  
  reverse = FALSE,  
  ...  
)
```

```
scale_colour_material_c(  
  palette = "contrast",  
  discrete = FALSE,  
  reverse = FALSE,  
  ...  
)  
  
scale_colour_material_d(  
  palette = "contrast",  
  discrete = TRUE,  
  reverse = FALSE,  
  ...  
)  
  
scale_fill_material(  
  palette = "contrast",  
  discrete = TRUE,  
  reverse = FALSE,  
  ...  
)  
  
scale_fill_material_d(  
  palette = "contrast",  
  discrete = TRUE,  
  reverse = FALSE,  
  ...  
)  
  
scale_fill_material_c(  
  palette = "contrast",  
  discrete = FALSE,  
  reverse = FALSE,  
  ...  
)
```

Arguments

palette	Character name of palette. Depending on the color scale, can be "full", "ice", "rainbow", "complement", "contrast" or "light" (for dark themes).
discrete	Boolean indicating whether color aesthetic is discrete or not.
reverse	Boolean indicating whether the palette should be reversed.
...	Additional arguments to pass to <code>colorRampPalette()</code> .

Examples

```
library(ggplot2)  
library(see)
```

```
ggplot(iris, aes(x = Species, y = Sepal.Length, fill = Species)) +
  geom_boxplot() +
  theme_modern() +
  scale_fill_material_d()

ggplot(iris, aes(x = Species, y = Sepal.Length, fill = Species)) +
  geom_violin() +
  theme_modern() +
  scale_fill_material_d(palette = "ice")

ggplot(iris, aes(x = Petal.Length, y = Petal.Width, color = Sepal.Length)) +
  geom_point() +
  theme_modern() +
  scale_color_material_c(palette = "rainbow")
```

scale_color_metro *Metro color palette*

Description

The palette based on Metro (<https://www.materialui.co/metrocolors>). Use `scale_color_metro_d` for *discrete* categories and `scale_color_metro_c` for a *continuous* scale.

Usage

```
scale_color_metro(
  palette = "complement",
  discrete = TRUE,
  reverse = FALSE,
  ...
)
```

```
scale_color_metro_d(
  palette = "complement",
  discrete = TRUE,
  reverse = FALSE,
  ...
)
```

```
scale_color_metro_c(
  palette = "complement",
  discrete = FALSE,
  reverse = FALSE,
  ...
)
```

```
scale_colour_metro(  
  palette = "complement",  
  discrete = TRUE,  
  reverse = FALSE,  
  ...  
)  
  
scale_colour_metro_c(  
  palette = "complement",  
  discrete = FALSE,  
  reverse = FALSE,  
  ...  
)  
  
scale_colour_metro_d(  
  palette = "complement",  
  discrete = TRUE,  
  reverse = FALSE,  
  ...  
)  
  
scale_fill_metro(palette = "complement", discrete = TRUE, reverse = FALSE, ...)  
  
scale_fill_metro_d(  
  palette = "complement",  
  discrete = TRUE,  
  reverse = FALSE,  
  ...  
)  
  
scale_fill_metro_c(  
  palette = "complement",  
  discrete = FALSE,  
  reverse = FALSE,  
  ...  
)
```

Arguments

palette	Character name of palette. Depending on the color scale, can be "full", "ice", "rainbow", "complement", "contrast" or "light" (for dark themes).
discrete	Boolean indicating whether color aesthetic is discrete or not.
reverse	Boolean indicating whether the palette should be reversed.
...	Additional arguments to pass to colorRampPalette() .

Examples

```
library(ggplot2)
```



```
library(see)

ggplot(iris, aes(x = Species, y = Sepal.Length, fill = Species)) +
  geom_boxplot() +
  theme_modern() +
  scale_fill_metro_d()

ggplot(iris, aes(x = Species, y = Sepal.Length, fill = Species)) +
  geom_violin() +
  theme_modern() +
  scale_fill_metro_d(palette = "ice")

ggplot(iris, aes(x = Petal.Length, y = Petal.Width, color = Sepal.Length)) +
  geom_point() +
  theme_modern() +
  scale_color_metro_c(palette = "rainbow")
```

scale_color_pizza *Pizza color palette*

Description

The palette based on authentic neapolitan pizzas. Use `scale_color_pizza_d()` for *discrete* categories and `scale_color_pizza_c()` for a *continuous* scale.

Usage

```
scale_color_pizza(
  palette = "margherita",
  discrete = TRUE,
  reverse = FALSE,
  ...
)
```

```
scale_color_pizza_d(
  palette = "margherita",
  discrete = TRUE,
  reverse = FALSE,
  ...
)
```

```
scale_color_pizza_c(
  palette = "margherita",
  discrete = FALSE,
  reverse = FALSE,
  ...
)
```

```
scale_colour_pizza(  
  palette = "margherita",  
  discrete = TRUE,  
  reverse = FALSE,  
  ...  
)  
  
scale_colour_pizza_c(  
  palette = "margherita",  
  discrete = FALSE,  
  reverse = FALSE,  
  ...  
)  
  
scale_colour_pizza_d(  
  palette = "margherita",  
  discrete = TRUE,  
  reverse = FALSE,  
  ...  
)  
  
scale_fill_pizza(palette = "margherita", discrete = TRUE, reverse = FALSE, ...)  
  
scale_fill_pizza_d(  
  palette = "margherita",  
  discrete = TRUE,  
  reverse = FALSE,  
  ...  
)  
  
scale_fill_pizza_c(  
  palette = "margherita",  
  discrete = FALSE,  
  reverse = FALSE,  
  ...  
)
```

Arguments

palette	Pizza type. Can be "margherita" (default), "margherita_crust", "diavola" or "diavola_crust".
discrete	Boolean indicating whether color aesthetic is discrete or not.
reverse	Boolean indicating whether the palette should be reversed.
...	Additional arguments to pass to colorRampPalette() .

Examples

```
library(ggplot2)
```

```

library(see)

ggplot(iris, aes(x = Species, y = Sepal.Length, fill = Species)) +
  geom_boxplot() +
  theme_modern() +
  scale_fill_pizza_d()

ggplot(iris, aes(x = Petal.Length, y = Petal.Width, color = Sepal.Length)) +
  geom_point() +
  theme_modern() +
  scale_color_pizza_c()

```

scale_color_see *See color palette*

Description

The See color palette. Use `scale_color_see_d()` for *discrete* categories and `scale_color_see_c()` for a *continuous* scale.

Usage

```

scale_color_see(palette = "contrast", discrete = TRUE, reverse = FALSE, ...)

scale_color_see_d(palette = "contrast", discrete = TRUE, reverse = FALSE, ...)

scale_color_see_c(palette = "contrast", discrete = FALSE, reverse = FALSE, ...)

scale_colour_see(palette = "contrast", discrete = TRUE, reverse = FALSE, ...)

scale_colour_see_c(
  palette = "contrast",
  discrete = FALSE,
  reverse = FALSE,
  ...
)

scale_colour_see_d(palette = "contrast", discrete = TRUE, reverse = FALSE, ...)

scale_fill_see(palette = "contrast", discrete = TRUE, reverse = FALSE, ...)

scale_fill_see_d(palette = "contrast", discrete = TRUE, reverse = FALSE, ...)

scale_fill_see_c(palette = "contrast", discrete = FALSE, reverse = FALSE, ...)

```

Arguments

palette	Character name of palette. Depending on the color scale, can be "full", "ice", "rainbow", "complement", "contrast" or "light" (for dark themes).
discrete	Boolean indicating whether color aesthetic is discrete or not.
reverse	Boolean indicating whether the palette should be reversed.
...	Additional arguments to pass to <code>colorRampPalette()</code> .

Examples

```
library(ggplot2)
library(see)

ggplot(iris, aes(x = Species, y = Sepal.Length, fill = Species)) +
  geom_boxplot() +
  theme_modern() +
  scale_fill_see_d()

ggplot(iris, aes(x = Sepal.Length, y = Sepal.Width, colour = Species)) +
  geom_point() +
  theme_abys() +
  scale_colour_see(palette = "light")

ggplot(iris, aes(x = Petal.Length, y = Petal.Width, color = Sepal.Length)) +
  geom_point() +
  theme_modern() +
  scale_color_see_c(palette = "rainbow")
```

scale_color_social *Social color palette*

Description

The palette based on Social (<https://www.materialui.co/socialcolors>). Use `scale_color_social_d` for *discrete* categories and `scale_color_social_c` for a *continuous* scale.

Usage

```
scale_color_social(
  palette = "complement",
  discrete = TRUE,
  reverse = FALSE,
  ...
)

scale_color_social_d(
  palette = "complement",
  discrete = TRUE,
```

```
    reverse = FALSE,  
    ...  
  )  
  
scale_color_social_c(  
  palette = "complement",  
  discrete = FALSE,  
  reverse = FALSE,  
  ...  
)  
  
scale_colour_social(  
  palette = "complement",  
  discrete = TRUE,  
  reverse = FALSE,  
  ...  
)  
  
scale_colour_social_c(  
  palette = "complement",  
  discrete = FALSE,  
  reverse = FALSE,  
  ...  
)  
  
scale_colour_social_d(  
  palette = "complement",  
  discrete = TRUE,  
  reverse = FALSE,  
  ...  
)  
  
scale_fill_social(  
  palette = "complement",  
  discrete = TRUE,  
  reverse = FALSE,  
  ...  
)  
  
scale_fill_social_d(  
  palette = "complement",  
  discrete = TRUE,  
  reverse = FALSE,  
  ...  
)  
  
scale_fill_social_c(  
  palette = "complement",
```

```

    discrete = FALSE,
    reverse = FALSE,
    ...
  )

```

Arguments

palette	Character name of palette. Depending on the color scale, can be "full", "ice", "rainbow", "complement", "contrast" or "light" (for dark themes).
discrete	Boolean indicating whether color aesthetic is discrete or not.
reverse	Boolean indicating whether the palette should be reversed.
...	Additional arguments to pass to <code>colorRampPalette()</code> .

Examples

```

library(ggplot2)
library(see)

ggplot(iris, aes(x = Species, y = Sepal.Length, fill = Species)) +
  geom_boxplot() +
  theme_modern() +
  scale_fill_social_d()

ggplot(iris, aes(x = Species, y = Sepal.Length, fill = Species)) +
  geom_violin() +
  theme_modern() +
  scale_fill_social_d(palette = "ice")

ggplot(iris, aes(x = Petal.Length, y = Petal.Width, color = Sepal.Length)) +
  geom_point() +
  theme_modern() +
  scale_color_social_c(palette = "rainbow")

```

see_colors

Extract See colors as hex codes

Description

Can be used to get the hex code of specific colors from the See color palette. Use `see_colors()` to see all available color.

Usage

```
see_colors(...)
```

Arguments

...	Character names of colors.
-----	----------------------------

Value

A character vector with color-codes.

Examples

```
see_colors()
```

```
see_colors("indigo", "lime")
```

social_colors

Extract Social colors as hex codes

Description

Can be used to get the hex code of specific colors from the Social color palette. Use `social_colors()` to see all available color.

Usage

```
social_colors(...)
```

Arguments

... Character names of colors.

Value

A character vector with color-codes.

Examples

```
social_colors()
```

```
social_colors("dark red", "teal")
```

theme_abyss	<i>Abyss theme</i>
-------------	--------------------

Description

A deep dark blue theme for ggplot.

Usage

```
theme_abyss(  
  base_size = 11,  
  base_family = "",  
  plot.title.size = 15,  
  plot.title.face = "plain",  
  plot.title.space = 20,  
  legend.position = "right",  
  axis.title.space = 20,  
  legend.title.size = 13,  
  legend.text.size = 12,  
  axis.title.size = 13,  
  axis.title.face = "plain",  
  axis.text.size = 12,  
  axis.text.angle = NULL,  
  tags.size = 15,  
  tags.face = "bold"  
)
```

Arguments

base_size	base font size, given in pts.
base_family	base font family
plot.title.size	Title size in pts. Can be "none".
plot.title.face	Title font face ("plain", "italic", "bold", "bold.italic").
plot.title.space	Title spacing.
legend.position	the position of legends ("none", "left", "right", "bottom", "top", or two-element numeric vector)
axis.title.space	Axis title spacing.
legend.title.size	Legend elements text size in pts.
legend.text.size	Legend elements text size in pts. Can be "none".

axis.title.size Axis title text size in pts.
axis.title.face Axis font face ("plain", "italic", "bold", "bold.italic").
axis.text.size Axis text size in pts.
axis.text.angle Rotate the x axis labels.
tags.size Tags text size in pts.
tags.face Tags font face ("plain", "italic", "bold", "bold.italic").

Examples

```
library(ggplot2)
library(see)

ggplot(iris, aes(x = Sepal.Width, y = Sepal.Length)) +
  geom_point(color = "white") +
  theme_abbyss()
```

theme_blackboard *Blackboard dark theme*

Description

A modern, sleek and dark theme for ggplot.

Usage

```
theme_blackboard(
  base_size = 11,
  base_family = "",
  plot.title.size = 15,
  plot.title.face = "plain",
  plot.title.space = 20,
  legend.position = "right",
  axis.title.space = 20,
  legend.title.size = 13,
  legend.text.size = 12,
  axis.title.size = 13,
  axis.title.face = "plain",
  axis.text.size = 12,
  axis.text.angle = NULL,
  tags.size = 15,
  tags.face = "bold"
)
```

Arguments

<code>base_size</code>	base font size, given in pts.
<code>base_family</code>	base font family
<code>plot.title.size</code>	Title size in pts. Can be "none".
<code>plot.title.face</code>	Title font face ("plain", "italic", "bold", "bold.italic").
<code>plot.title.space</code>	Title spacing.
<code>legend.position</code>	the position of legends ("none", "left", "right", "bottom", "top", or two-element numeric vector)
<code>axis.title.space</code>	Axis title spacing.
<code>legend.title.size</code>	Legend elements text size in pts.
<code>legend.text.size</code>	Legend elements text size in pts. Can be "none".
<code>axis.title.size</code>	Axis title text size in pts.
<code>axis.title.face</code>	Axis font face ("plain", "italic", "bold", "bold.italic").
<code>axis.text.size</code>	Axis text size in pts.
<code>axis.text.angle</code>	Rotate the x axis labels.
<code>tags.size</code>	Tags text size in pts.
<code>tags.face</code>	Tags font face ("plain", "italic", "bold", "bold.italic").

Examples

```
library(ggplot2)
library(see)

ggplot(iris, aes(x = Sepal.Width, y = Sepal.Length)) +
  geom_point(color="white") +
  theme_blackboard()
```

 theme_lucid

Lucid theme

Description

A light, clear theme for ggplot.

Usage

```

theme_lucid(
  base_size = 11,
  base_family = "",
  plot.title.size = 12,
  plot.title.face = "plain",
  plot.title.space = 15,
  legend.position = "right",
  axis.title.space = 10,
  legend.title.size = 11,
  legend.text.size = 10,
  axis.title.size = 11,
  axis.title.face = "plain",
  axis.text.size = 10,
  axis.text.angle = NULL,
  tags.size = 11,
  tags.face = "plain"
)

```

Arguments

base_size	base font size, given in pts.
base_family	base font family
plot.title.size	Title size in pts. Can be "none".
plot.title.face	Title font face ("plain", "italic", "bold", "bold.italic").
plot.title.space	Title spacing.
legend.position	the position of legends ("none", "left", "right", "bottom", "top", or two-element numeric vector)
axis.title.space	Axis title spacing.
legend.title.size	Legend elements text size in pts.
legend.text.size	Legend elements text size in pts. Can be "none".
axis.title.size	Axis title text size in pts.
axis.title.face	Axis font face ("plain", "italic", "bold", "bold.italic").
axis.text.size	Axis text size in pts.
axis.text.angle	Rotate the x axis labels.
tags.size	Tags text size in pts.
tags.face	Tags font face ("plain", "italic", "bold", "bold.italic").

Examples

```
library(ggplot2)
library(see)

ggplot(iris, aes(x = Sepal.Width, y = Sepal.Length)) +
  geom_point(color = "white") +
  theme_lucid()
```

theme_modern

The easystats' minimal theme

Description

A modern, sleek and elegant theme for ggplot.

Usage

```
theme_modern(
  base_size = 11,
  base_family = "",
  plot.title.size = 15,
  plot.title.face = "plain",
  plot.title.space = 20,
  legend.position = "right",
  axis.title.space = 20,
  legend.title.size = 13,
  legend.text.size = 12,
  axis.title.size = 13,
  axis.title.face = "plain",
  axis.text.size = 12,
  axis.text.angle = NULL,
  tags.size = 15,
  tags.face = "bold"
)
```

Arguments

base_size	base font size, given in pts.
base_family	base font family
plot.title.size	Title size in pts. Can be "none".
plot.title.face	Title font face ("plain", "italic", "bold", "bold.italic").
plot.title.space	Title spacing.

legend.position	the position of legends ("none", "left", "right", "bottom", "top", or two-element numeric vector)
axis.title.space	Axis title spacing.
legend.title.size	Legend elements text size in pts.
legend.text.size	Legend elements text size in pts. Can be "none".
axis.title.size	Axis title text size in pts.
axis.title.face	Axis font face ("plain", "italic", "bold", "bold.italic").
axis.text.size	Axis text size in pts.
axis.text.angle	Rotate the x axis labels.
tags.size	Tags text size in pts.
tags.face	Tags font face ("plain", "italic", "bold", "bold.italic").

Examples

```
library(ggplot2)
library(see)

ggplot(iris, aes(x = Sepal.Width, y = Sepal.Length, color = Species)) +
  geom_point() +
  theme_modern()
```

theme_radar

Themes for radar plots

Description

theme_radar() is a light, clear theme for ggplot radar-plots, while theme_radar_dark() is a dark variant of theme_radar().

Usage

```
theme_radar(
  base_size = 11,
  base_family = "",
  plot.title.size = 12,
  plot.title.face = "plain",
  plot.title.space = 15,
  legend.position = "right",
  axis.title.space = 15,
```

```

    legend.title.size = 11,
    legend.text.size = 10,
    axis.title.size = 11,
    axis.title.face = "plain",
    axis.text.size = 10,
    axis.text.angle = NULL,
    tags.size = 11,
    tags.face = "plain"
)

theme_radar_dark(
  base_size = 11,
  base_family = "",
  plot.title.size = 12,
  plot.title.face = "plain",
  plot.title.space = 15,
  legend.position = "right",
  axis.title.space = 15,
  legend.title.size = 11,
  legend.text.size = 10,
  axis.title.size = 11,
  axis.title.face = "plain",
  axis.text.size = 10,
  axis.text.angle = NULL,
  tags.size = 11,
  tags.face = "plain"
)

```

Arguments

<code>base_size</code>	base font size, given in pts.
<code>base_family</code>	base font family
<code>plot.title.size</code>	Title size in pts. Can be "none".
<code>plot.title.face</code>	Title font face ("plain", "italic", "bold", "bold.italic").
<code>plot.title.space</code>	Title spacing.
<code>legend.position</code>	the position of legends ("none", "left", "right", "bottom", "top", or two-element numeric vector)
<code>axis.title.space</code>	Axis title spacing.
<code>legend.title.size</code>	Legend elements text size in pts.
<code>legend.text.size</code>	Legend elements text size in pts. Can be "none".

`axis.title.size` Axis title text size in pts.
`axis.title.face` Axis font face ("plain", "italic", "bold", "bold.italic").
`axis.text.size` Axis text size in pts.
`axis.text.angle` Rotate the x axis labels.
`tags.size` Tags text size in pts.
`tags.face` Tags font face ("plain", "italic", "bold", "bold.italic").

See Also

[coord_radar](#)

Examples

```
if (require("ggplot2") && require("dplyr") && require("tidyr")) {  
  data <- iris %>%  
    group_by(Species) %>%  
    summarise_all(mean) %>%  
    pivot_longer(-Species)  
  
  data %>%  
    ggplot(aes(  
      x = name,  
      y = value,  
      color = Species,  
      group = Species,  
      fill = Species  
    )) +  
    geom_polygon(size = 1, alpha = .1) +  
    coord_radar() +  
    theme_radar()  
}
```

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