Package ‘scatr’

Type Package
Title Create Scatter Plots with Marginal Density or Box Plots
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Description Allows you to make clean, good-looking scatter plots with the option to easily add marginal density or box plots on the axes. It is also available as a module for ‘jamovi’ (see <https://www.jamovi.org> for more information). ‘Scatr’ is based on the ‘cowplot’ package by Claus O. Wilke and the ‘ggplot2’ package by Hadley Wickham.
License GPL (>= 2)
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Imports jmvcore (>= 0.8.0), R6, ggplot2, cowplot, ggstance, ggridges
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BugReports https://github.com/raviselker/scatr/issues
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Description

Function for making clean, good looking scatter plots with the option to add marginal density or box plots.

Usage

`scat(data, x, y, group = NULL, marg = "none", line = "none", se = FALSE)`

Arguments

- `data` the data as a data frame
- `x` a string naming the variable from `data` that contains the x coordinates of the points in the plot, variable must be numeric
- `y` a string naming the variable from `data` that contains the y coordinates of the points in the plot, variable must be numeric
- `group` a string naming the variable from `data` that represents the grouping variable
- `marg` none (default), dens, or box, provide respectively no plots, density plots, or box plots on the axes
- `line` none (default), linear, or smooth, provide respectively no regression line, a linear regression line, or a smoothed regression line
- `se` TRUE or FALSE (default), show the standard error for the regression line

Value

A results object containing:

```
results$scat a scatter plot
```

Examples

```r
set.seed(1337)

X <- rnorm(100)
Y <- 0.5*X + rnorm(100)

data <- data.frame(X = X, Y = Y)

scat(data, x = 'X', y = 'Y', line = 'linear', se = TRUE, marg = 'dens')
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