# Package: scatr (via r-universe)

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**Type** Package

**Title** Create Scatter Plots with Marginal Density or Box Plots

**Version** 1.3.0

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**Author** Ravi Selker

**Maintainer** Ravi Selker <selker.ravi@gmail.com>

**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)

**Encoding** UTF-8

**Depends** R (>= 3.2)

**Imports** jmvcore (>= 2.3.19), R6, ggplot2, cowplot, ggridges

**RoxygenNote** 7.1.1

**URL** https://github.com/raviselker/scatr

**BugReports** https://github.com/raviselker/scatr/issues

**Repository** https://raviselker.r-universe.dev

**RemoteUrl** https://github.com/raviselker/scatr

**RemoteRef** HEAD

**RemoteSha** 72fe08efc8e98f28e2224d0a4a60aba117cbd806

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pareto                          *Pareto Chart*

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### Description

Function for making pareto charts.

### Usage

```
pareto(data, x, counts = NULL, angle = 0)
```

### Arguments

| | |
|---|---|
| data | the data as a data frame |
| x | a string naming the variable from data that contains the values used for the chart |
| counts | a string naming the variable from data that contains the counts for the values (optional) |
| angle | a number from 0 to 45 defining the angle of the x-axis labels, where 0 degrees represents completely horizontal labels. |

### Value

A results object containing:

| | |
|---|---|
| results$pareto | a Pareto chart |

### Examples

```
set.seed(1337)

X <- sample(c('A','B','C','D','E','F'), 100, replace=TRUE)
dat <- data.frame(X = X)

scatr::pareto(dat, x = 'X')
```

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scat *Scatterplot*

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### Description

Function for making clean, good looking scatter plots with the option to add marginal denisty 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

```
set.seed(1337)

X <- rnorm(100)
Y <- 0.5*X + rnorm(100)
dat <- data.frame(X = X, Y = Y)

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