

Package ‘summariser’

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Type Package

Title Easy Calculation and Visualisation of Confidence Intervals

Version 0.1.0

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Description Functions to speed up the exploratory analysis of simple datasets using 'dplyr' and 'ggplot2'. Functions are provided to do the common tasks of calculating confidence intervals and visualising the results.

License GPL-3

Encoding UTF-8

LazyData true

Depends dplyr, ggplot2, lazyeval, plotrix

Suggests testthat

RoxygenNote 6.0.1

URL <https://github.com/condwanaland/summariser>

NeedsCompilation no

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Repository CRAN

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summariser	<i>summariser: an R package for easily calculating basic summary statistics</i>
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Description

The summariser package provides two important functions: `summary_stats` and `summary_plot`

summary_plot	<i>summary_plot</i>
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Description

the output of a `summary_stats` call is input into a `summary_plot` call to produce a graph of the calculated means and confidence intervals.

Usage

```
summary_plot(data, x, colour = NULL)
```

Arguments

data	a data frame produced by <code>summary_stats</code>
x	a factor variable to plot on the x axis
colour	a factor variable to colour points by

Examples

```
data(iris)
sum1 <- summary_stats(iris, measure = "Sepal.Length", Species)
summary_plot(sum1, x="Species", colour="Species")
```

summary_stats	<i>Calculate summary statistics on a data frame</i>
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Description

Functions from dplyr are used to automate the process of calculating basic summary statistics on a data frame. Returned statistics include mean, standard deviation, standard error, count, and 95 confidence intervals from a normal distribution (summary_stats) and from a t-distribution (summary_stats.t)

Usage

```
summary_stats(data, measure, ...)
```

Arguments

data	a data frame
measure	a numeric variable. Response variable - summary statistics will be returned for this variable
...	a factor variable, or group of factor variables. Data frame will be grouped by this variable, and summary statistics will be produced for each group

Examples

```
data(iris)
summary_stats(iris, measure = "Sepal.Length")
summary_stats(iris, measure = "Sepal.Length", Species)
```

summary_stats.t	<i>Calculate summary statistics on a data frame</i>
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Description

Functions from dplyr are used to automate the process of calculating basic summary statistics on a data frame. Returned statistics include mean, standard deviation, standard error, count, and 95 confidence intervals from a normal distribution (summary_stats) and from a t-distribution (summary_stats.t)

Usage

```
summary_stats.t(data, measure, ...)
```

Arguments

<code>data</code>	a data frame
<code>measure</code>	a numeric variable. Response variable - summary statistics will be returned for this variable
<code>...</code>	a factor variable, or group of factor variables. Data frame will be grouped by this variable, and summary statistics will be produced for each group

Examples

```
data(iris)
summary_stats(iris, measure = "Sepal.Length")
summary_stats(iris, measure = "Sepal.Length", Species)
```

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