Package ‘SimplifyStats’

March 12, 2019

Type Package
Title Simplifies Pairwise Statistical Analyses
Version 2.0.2
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Description Pairwise group comparisons are often performed. While there are many packages that can perform these analyses, often it is the case that only a subset of comparisons are desired. ‘SimplifyStats’ performs pairwise comparisons and returns the results in a tidy fashion.
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Imports assertthat (>= 0.2.0), tibble (>= 1.4.2), dplyr (>= 0.7.4), broom (>= 0.4.4), moments (>= 0.14)
Suggests testthat, knitr, rmarkdown
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VignetteBuilder knitr
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Repository CRAN
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Description

A more detailed description of what the package does. A length of about one to five lines is recommended.

Details

This section should provide a more detailed overview of how to use the package, including the most important functions.

Author(s)

Your Name, email optional.
Maintainer: Your Name <your@email.com>

References

This optional section can contain literature or other references for background information.

See Also

Optional links to other man pages

Examples

```r
## not run:
## optional simple examples of the most important functions
## these can be in \dontrun{} and \donttest{} blocks.

## End(not run)
```

Description

group_summarize performs descriptive statistics for each group in a data set.
The function takes as input a data.frame or tibble, the column names of grouping variables, and the column names of variables of interest.

Usage

group_summarize(x, group_cols, var_cols, output_format = "v1", ...)

pairwise_stats

Arguments

- **x**: A data.frame or tibble.
- **group_cols**: Vector of the names of the grouping columns.
- **var_cols**: Vector of the names of the variables of interest.
- **output_format**: The version of the output format (v0 or v1).
- **...**: Extra arguments passed to fxn, i.e. na.rm = FALSE, etc.

Value

A tibble

A group_summary object with slots for the results, grouping variables, variables of interest, and any other parameters passed in.

Examples

```r
group_summarize(iris, "Species", c("Sepal.Length", "Sepal.Width"))
```

Description

pairwise_stats performs a provided function pairwise between all combinations of groups. The first two arguments of the function passed to pairwise_stats must accept vectors of values as inputs. These vectors should correspond to the values for group A and group B, respectively.

The function takes as input a data.frame or tibble, the column names of grouping variables, the column name for a variable of interest, and a function.

Usage

```r
pairwise_stats(x, group_cols, var_cols, fxn, two_way = FALSE, output_format = "v1", ...)
```

Arguments

- **x**: A data.frame or tibble.
- **group_cols**: Vector of the names of the grouping columns.
- **var_cols**: Vector of the names of the variables of interest.
- **fxn**: The function to be applied.
- **two_way**: Whether the order of data inputs to fxn matter.
- **output_format**: The version of the output format (v0 or v1).
- **...**: Extra arguments passed to fxn, i.e. alternative = "greater", etc.
pairwise_stats

Value

A tibble.

A pairwise_stats object with slots for the results, grouping variables, variable of interest, and any
other parameters passed in, excluding the input data frame.

Examples

pairwise_stats(iris, "Species", "Sepal.Length", t.test)
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