

Package: boxTest (via r-universe)

June 1, 2026

Type Package

Title Boxplot and Significance Test for Two Groups

Version 0.1.0

Description Creates a side-by-side boxplot for a continuous variable grouped by a two-level categorical variable, checks normality assumptions, and runs the appropriate statistical test (t-test or Wilcoxon rank-sum test). Returns a publication-ready plot and test statistics including test statistic, degrees of freedom, and p-value.

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Encoding UTF-8

LazyData true

Depends R (>= 3.6)

Imports ggplot2, dplyr, stats, rlang

Suggests testthat (>= 3.0.0), knitr, rmarkdown

VignetteBuilder knitr

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Repository <https://arka1985.r-universe.dev>

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compare_two_groups *Compare Two Groups with Boxplot and Significance Test*

Description

Generates side-by-side boxplots and runs Shapiro-Wilk by group, then t-test (if both normal) or Wilcoxon rank-sum test. Returns a structured list with plots and a clear test summary.

Usage

```
compare_two_groups(data, continuous, group)
```

Arguments

data	A data.frame
continuous	Name of continuous variable (string)
group	Name of categorical variable with exactly 2 levels (string)

Value

A list containing:

plot A ggplot object of the boxplot.

normality A data.frame showing Shapiro-Wilk p-values for each group.

test_summary A data.frame summarizing the statistical test used, statistic, df, and p-value.

Examples

```
res <- compare_two_groups(mtcars, "mpg", "am")
res$plot
res$normality
res$test_summary
```

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