

# Package: GroupComparisons (via r-universe)

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**Type** Package

**Title** Paired/Unpaired Parametric/Non-Parametric Group Comparisons

**Version** 0.1.0

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**Description** Receives two vectors, computes appropriate function for group comparison (i.e., t-test, Mann-Whitney; equality of variances), and reports the findings (mean/median, standard deviation, test statistic, p-value, effect size) in APA format (Fay, M.P., & Proschan, M.A. (2010)<[DOI:10.1214/09-SS051](https://doi.org/10.1214/09-SS051)>).

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**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 6.1.0

**Depends** car

**NeedsCompilation** no

**Repository** CRAN

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Group\_Comparison\_Paired

*Paired Parametric/Non-Parametric Group Comparisons*

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### **Description**

Receives two vectors, computes appropriate function for paired group comparison (t-test, Mann-Whitney), and reports the findings (mean/median, standard deviation, test statistic, p-value, effect size) in APA format (Field, A. (2013). *Discovering statistics using IBM SPSS statistics*. New York, NY: SAGE.).

### **Usage**

```
Group_Comparison_Paired(vec1, vec2)
```

### **Arguments**

vec1	A vector of numbers
vec2	A vector of numbers

### **Value**

This function returns a sentence summarizing the findings and reporting them in APA format (effect size included)

### **Examples**

```
dt <- mtcars
vector1 <- dt$mpg
vector2 <- dt$hp
Group_Test <- Group_Comparison_Paired(vector1, vector2)
Group_Test
```

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Group\_Comparison\_Unpaired

*Unpaired Parametric/Non-Parametric Group Comparisons*

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### **Description**

Receives two vectors, computes best function for unpaired group comparison (t-test, Mann-Whitney), and reports the findings (mean/median, standard deviation, test statistic, p-value, effect size) in APA format (Field, A. (2013). *Discovering statistics using IBM SPSS statistics*. New York, NY: SAGE.).

### **Usage**

```
Group_Comparison_Unpaired(vec1, vec2)
```

**Arguments**

vec1            A vector of numbers  
vec2            A vector of numbers

**Value**

This function returns a sentence summarizing the findings and reporting them in APA format (effect size included)

**Examples**

```
dt <- mtcars  
vector1 <- dt$mpg  
vector2 <- dt$hp  
Group_Test <- Group_Comparison_Unpaired(vector1, vector2)  
Group_Test
```

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