

Brunner-Munzel's test

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Results for Brunner-Munzel's test

This document highlights the conducted Brunner-Munzel's test, as reported in the footnote of the master thesis (p. 13). It is strongly recommended to read the article that inspired this analysis (*Psychologists Should Use Brunner-Munzel's Instead of Mann-Whitney's U Test as the Default Nonparametric Procedure*; Karch, 2021). Here it is just briefly shown that the results are in line with the reported findings in the thesis manuscript.

```
##
## Brunner-Munzel Test
##
## data: score by rankings
## Brunner-Munzel Test Statistic = 8.5548, df = 15.419, p-value = 1.52e-07
## 95 percent confidence interval:
## 0.8297966 1.0479812
## sample estimates:
## P(X<Y)+.5*P(X=Y)
## 0.9388889
```

```
##
## Brunner-Munzel Test
##
## data: key_resp_rt_minutes by rankings
## Brunner-Munzel Test Statistic = -4.5621, df = 8.4448, p-value =
## 0.0008025
## 95 percent confidence interval:
## -0.1170267 0.2948045
## sample estimates:
## P(X<Y)+.5*P(X=Y)
## 0.08888889
```

```
##
## permuted Brunner-Munzel Test
##
## data: score by rankings
## p-value = 0.0001299
## sample estimates:
## P(X<Y)+.5*P(X=Y)
## 0.9388889
```

```
##
##  permuted Brunner-Munzel Test
##
## data:  key_resp_rt_minutes by rankings
## p-value = 0.001591
## sample estimates:
## P(X<Y)+.5*P(X=Y)
##      0.08888889
```