Rapport package team

Wilcoxon test

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Description

In this template Rapporter will present you Wilcoxon test.

Introduction

Wilcoxon test (or its equivalent the Mann-Whitney U test) is a non-parametric statistical test which can be an alternative of the paired Student's t-test, t-test for matched pairs, or the t-test for dependent samples. When the Wilcoxon test is used to compare two samples of values which are not paired, it makes no assumption about the shape of the distribution, only that (as null hypothesis) the distribution from which mpg was sampled is the same as the distribution from which cyl was sampled. The null hypothesis states that the variances of the variables are equal.

Test statistic	P value	Alternative hypothesis
1024	4.306e-12 * * *	two.sided

Table 1: Wilcoxon rank sum test with continuity correction mpg and cyl

As you can see in the table the p-value of the Wilcoxon test is 4.306e-12, thus we can accept the assumption of the null hypothesis, so we can say that

statistically the variances are equal.

This report was generated with R (3.0.1) and rapport (0.51) in 0.138 sec on x86_64-unknown-linux-gnu platform.

