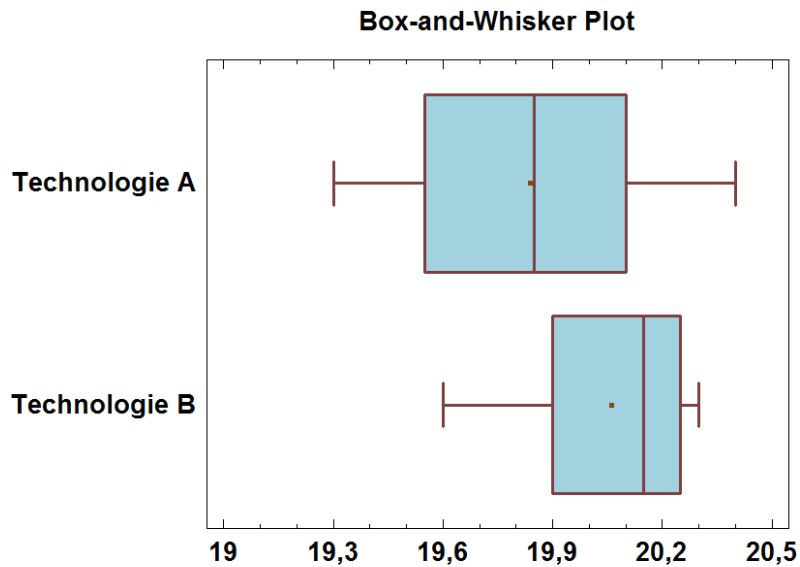


Aufgabe 1:



a) Comparison of Means

...

t test to compare means

Null hypothesis: mean1 = mean2

Alt. hypothesis: mean1 NE mean2

not assuming equal variances: $t = -1,4243$ P-value = 0,179713

Do not reject the null hypothesis for alpha = 0,05.

b) Comparison of Standard Deviations

...

F-test to Compare Standard Deviations

Null hypothesis: $\sigma_1 = \sigma_2$

Alt. hypothesis: $\sigma_1 \neq \sigma_2$

$F = 2,33731$ P-value = 0,285163

Do not reject the null hypothesis for alpha = 0,05.

c) Comparison of Means

...

t test to compare means

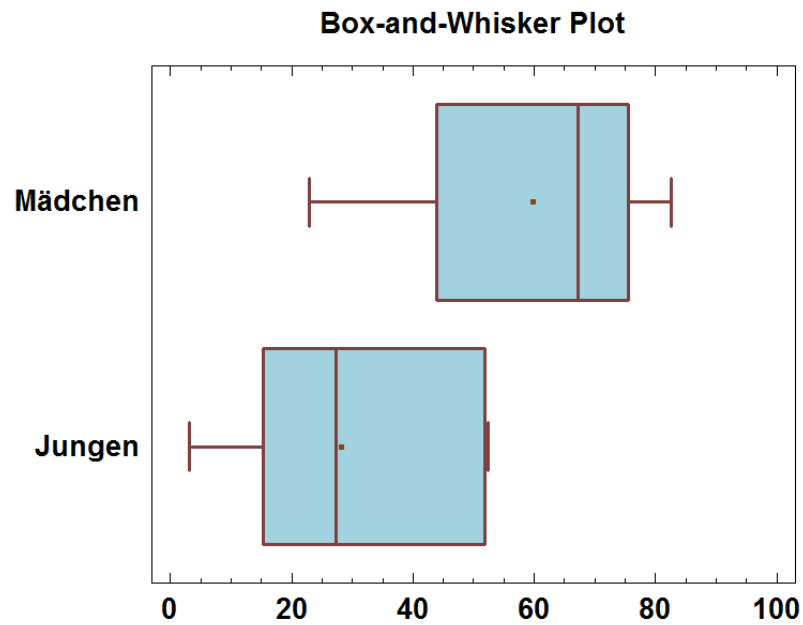
Null hypothesis: mean1 = mean2

Alt. hypothesis: mean1 NE mean2

assuming equal variances: $t = -1,4243$ P-value = 0,176268

Do not reject the null hypothesis for alpha = 0,05.

Aufgabe 2:



Comparison of Medians

Median of sample 1: 67,155

Median of sample 2: 27,31

Mann-Whitney (Wilcoxon) W-test to compare medians

Null hypothesis: median1 = median2

Alt. hypothesis: median1 > median2

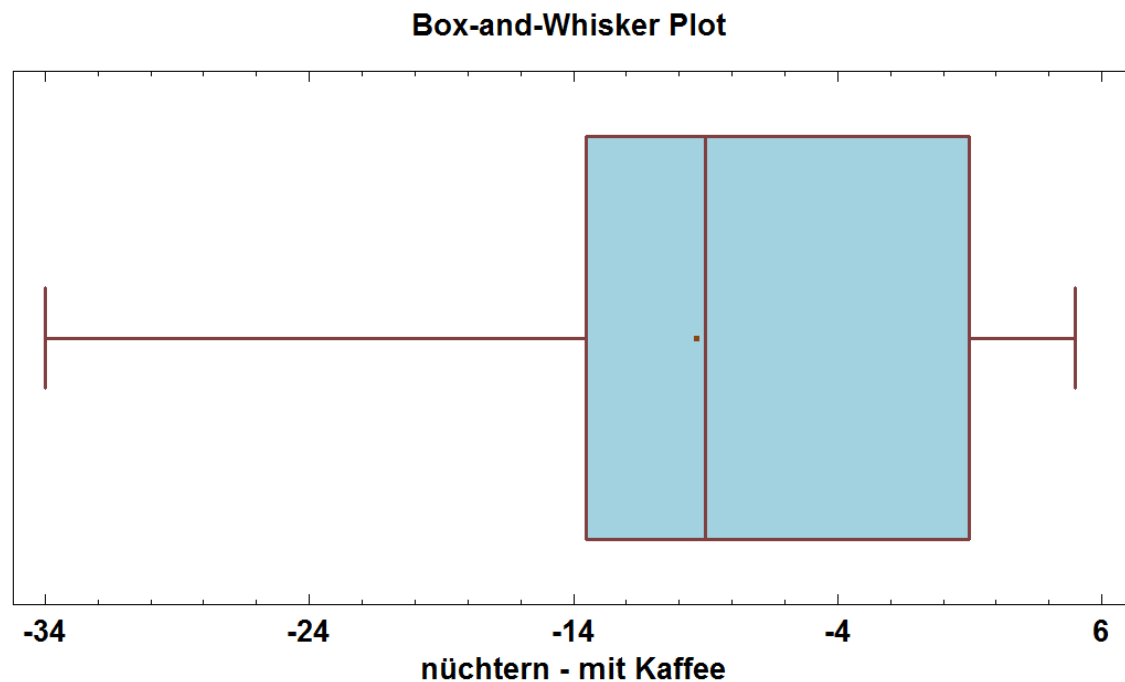
Average rank of sample 1: 10,5

Average rank of sample 2: 5,14286

W = 8,0 P-value = 0,0120138

Reject the null hypothesis for alpha = 0,05.

Aufgabe 3:



Hypothesis Tests for nüchtern - mit Kaffee

Sample mean = -9,33333

Sample median = -9,0

Sample standard deviation = 11,5549

...

signed rank test

Null hypothesis: median = 0

Alternative: less than

Average rank of values below hypothesized median: 8,5

Average rank of values above hypothesized median: 2,5

Large sample test statistic = 2,23745 (continuity correction applied)

P-Value = 0,0126285

Reject the null hypothesis for alpha = 0,05.