Films released < 2010:

N = 1555

Average rating = 6,492733119

StdDev = 0,88388498

Films released >= 2010

N = 762

Average rating = 6,448293963

StdDev = 1,431852215

Result:

t-value lower bound: 5.00 p-value lower bound: 0.0000003

t-value upper bound: -3.42 p-value upper bound: 0.0003

degrees of freedom : 1053.75

Equivalence bounds (Cohen's d):

low eqbound: -0.2

high eqbound: 0.2

Equivalence bounds (raw scores):

low eqbound: -0.238

high eqbound: 0.238

TOST confidence interval:

lower bound 90% CI: -0.049

upper bound 90% CI: 0.137

NHST confidence interval:

lower bound 95% CI: -0.066

upper bound 95% CI: 0.155

Equivalence Test Result:

The equivalence test was significant, t(1053.75) = -3.425, p = 0.000319, given equivalence bounds of -0.238 and 0.238 (on a raw scale) and an alpha of 0.05.

Null Hypothesis Test Result:

The null hypothesis test was non-significant, t(1053.75) = 0.786, p = 0.432, given an alpha of 0.05.

**Conclusion: Based on the equivalence test and the null-hypothesis test combined, we can conclude that the observed effect is statistically not different from zero and statistically equivalent to zero.**

