

## Research Report

My theoretical hypothesis was that There are no significant changes in the quality of war films before and after 2010 as measured by their rating on the IMDB site.

I compared the IMDB ratings of 542 war movies released before 2010, with the IMDB ratings of 542 movies released in or after 2010. Movies released before 2010 received a similar rating ( $M = 6.48$ ,  $SD = 1.05$ ) as movies equal or after 2010 ( $M = 6.54$ ,  $SD = 1.43$ ),  $Md = 0.05$ , 95% CI  $[-0.25; 0.025]$ ,  $t(992) = 2.60$ ,  $p = 0.0048$ .

As expected, the 90% CI around the mean difference fell completely within the equivalent boundary (see Figure 1), which supports our hypothesis that movie evaluations before and after 2010 do not differ, even in a small effect ( $d = 0.2$ ).

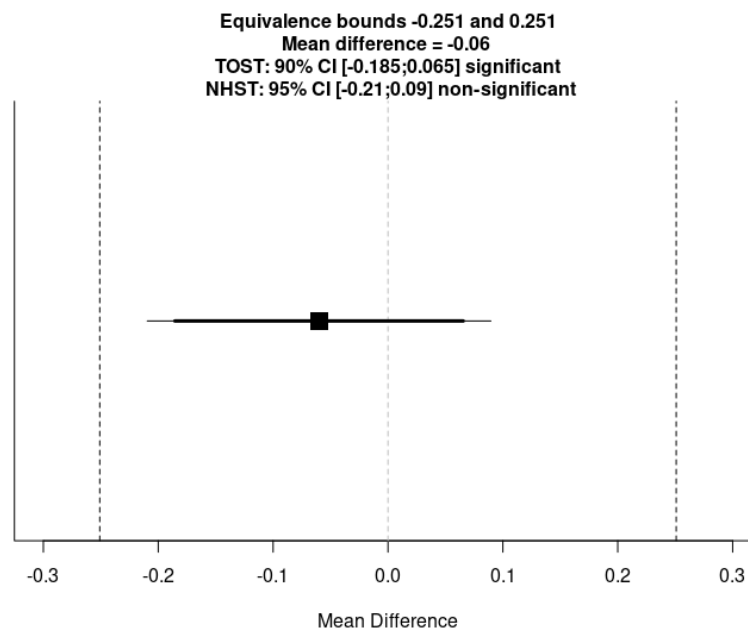


Figure 1 . Plot equivalence test. Result: we can conclude that the two sets are statistically equivalent because it is not different from 0, and it is too small to be meaningful.