Comparing recent Dreamworks and 20th Century Fox movie ratings. (#41138)

Created: 05/16/2020 03:09 AM (PT)
Public: 05/16/2020 03:11 AM (PT)

Author(s)
Ezra Herman (University of York) - elh605@york.ac.uk

1) Have any data been collected for this study already?
No, no data have been collected for this study yet.

2) What's the main question being asked or hypothesis being tested in this study?
Recent movies by Dreamworks are as good as recent movies by 20th Century Fox.

3) Describe the key dependent variable(s) specifying how they will be measured.
IMDB score. Via the advanced title search, search for feature films with a release date to set to max 2019. Search once for Dreamworks and once for 20th Century Fox. For each, sort the titles starting with the most recent release date.

4) How many and which conditions will participants be assigned to?
Two conditions: a movie either belongs to Dreamworks or to 20th Century Fox.

5) Specify exactly which analyses you will conduct to examine the main question/hypothesis.
I will calculate a 90% CI around the effect size. If the 90% CI falls below and excludes a Cohen's d of 0.8, recent movies from the two companies will be considered equally good.

6) Describe exactly how outliers will be defined and handled, and your precise rule(s) for excluding observations.
No observations will be excluded.

7) How many observations will be collected or what will determine sample size? No need to justify decision, but be precise about exactly how the number will be determined.
I will use an alpha of 0.05. I will perform a two-sided test. I will not be performing a sequential analysis. I am aiming for 90% power. I aim to exclude an effect of a Cohen's d of 0.8, assuming the true effect is 0. Using the `powerTOSTtwo` function from the `TOSTER` R package, I find that I need a sample size of 34 in each group.

8) Anything else you would like to pre-register? (e.g., secondary analyses, variables collected for exploratory purposes, unusual analyses planned?)
Nothing else to pre-register.