**AsPredicted registration: “prereg\_assignment7” Arnie Vs Sly**

1. Have any data been collected for this study already?

No, no data have been collected for this study yet.

1. What's the main question being asked or hypothesis being tested in this study?

We will test if the user ratings of the imdb website between the movies that Arnold Schwarzenegger and Sylvester Stallone differ significantly, which means that if we don’t find an *effect size* larger that 0.8 or smaller than -0.8 we are happy that our favorite actors have an equivalent acceptance rate. (this will only serve the purposes of the assignment)

1. Describe the key dependent variable(s) specifying how they will be measured.

We will use the imdb ratings only for “feature films” in which both actors played regardless of them being the protagonist or not and we will exclude the movies “Expendables 1-2-3” in which both actors played.

1. How many and which conditions will participants be assigned to?

Rating on the scale of stars filled that imbd offers as a measure of rating and we will exclude the movies in which they both played, we will also not take into account the “protagonist-non protagonist” factor.

1. Specify exactly which analyses you will conduct to examine the main question/hypothesis.

I will conduct a TOST equivalence test (two one sided tests) using R’s package TOSTER (D. Lakens :)) for two independent groups with 90% power (each one corresponding to the set of the movies of each actor) for an equivalence range from -0. 8 to 0.8 for an alpha = 0.05.

1. Any secondary analyses?

Actually it is not needed for this simple presentation, since the purpose of the assignment is to learn how preregister a study and nonetheless the some metacritic scores are missing which will make findings obscure!

1. How many observations will be collected or what will determine the sample size? No need to justify decision, but be precise about exactly how the number will be determined. (optional)

We will use the TOST “powerTOSTtwo” command with the specifications given above, the sample size for each group is 34 movies.

1. Anything else you would like to preregister? (e.g., data exclusions, variables collected for exploratory purposes, unusual analyses planned?)

Actually no this is only for educational purposes in order to learn how to preregister a study.