- 1. Using the Big-5 dataset from the video, consider the degree of association between calculate the correlation between Extraversion and Agreeableness.
 - Write formal definitions of the two models to be compared in a hypothesis test (\mathcal{H}_0 and \mathcal{H}_1).
 - Calculate the Pearson correlation coefficient, and report the *p*-value.
 - ullet What does this p-value tell you about your two models? Which model do we prefer after observing the data?
 - Report a 95% confidence interval for ρ .
 - What can you conclude from these analyses?
 - What happens to the *p*-value when you select "Correlated positively" from the "Alt. Hypothesis" menu? Try to explain why the *p*-value changes the way it does.
- 2. Open the "College Success" dataset in the JASP Data Library (you'll find it in the same collection as the Big-5 data). Use the correlation test to answer the following question: Which is the better predictor of college success (as measured by GPA): the math SAT score, or the verbal SAT score? Be sure to report the models being compared, the test statistic(s) of the observed data (i.e., the Pearson correlation(s)), and the p-value(s). What do you conclude?