**Null hypothesis significance testing**

Given the data set of self-reports of height and weight (use the Height and Weight Data.csv file), use the independent samples t-test to assess the null hypothesis that the mean weight of male respondents is equal to the mean weight of female respondents.

H0: $Mean weight of males= Mean weight of females$

If you have not yet learned to use this test (in the Analysis of Differences chapter):

in Jamovi, use the Analyses tab, then T-Tests, then Independent Samples T-Test; in JASP, use the T-Tests tab, followed by Independent T-Tests. Jamovi is shown here:







The group descriptives show that the mean weight of males is considerably higher than the mean weight of females. Since the significance value (*p* < .001) is less than the critical value 0.05, we have evidence to reject the null hypothesis that males and females have equal mean weight.