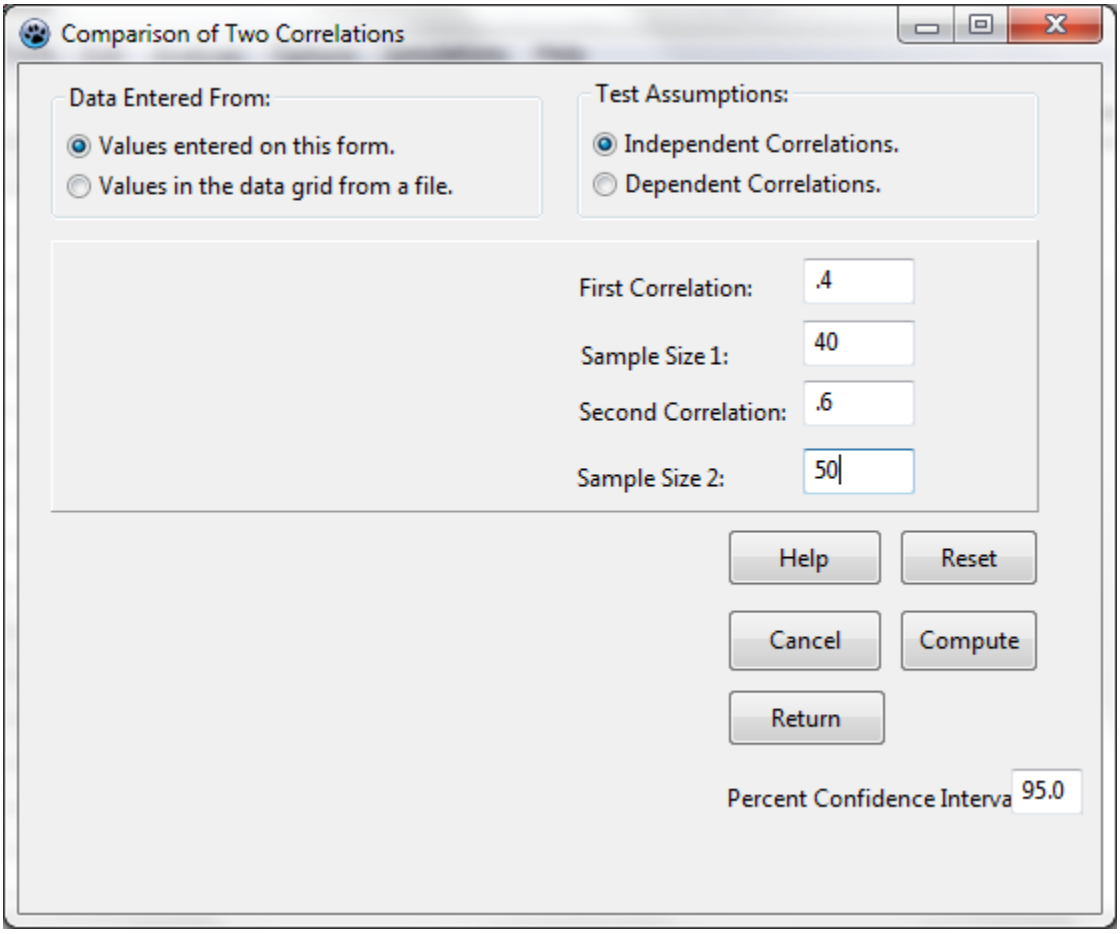
Differences between correlations:

Directions: For Dependent samples, click on the three variables representing X, Y and Z (in that order.) The test will compare the r(x,y) with the r(x,z). For Independent samples, click on the X and Y variables to be correlated and then the variable representing the group coding variable. The correlations obtained in each of two groups will be compared.

Example 1. Comparing Independent Correlations Entered on the Form.

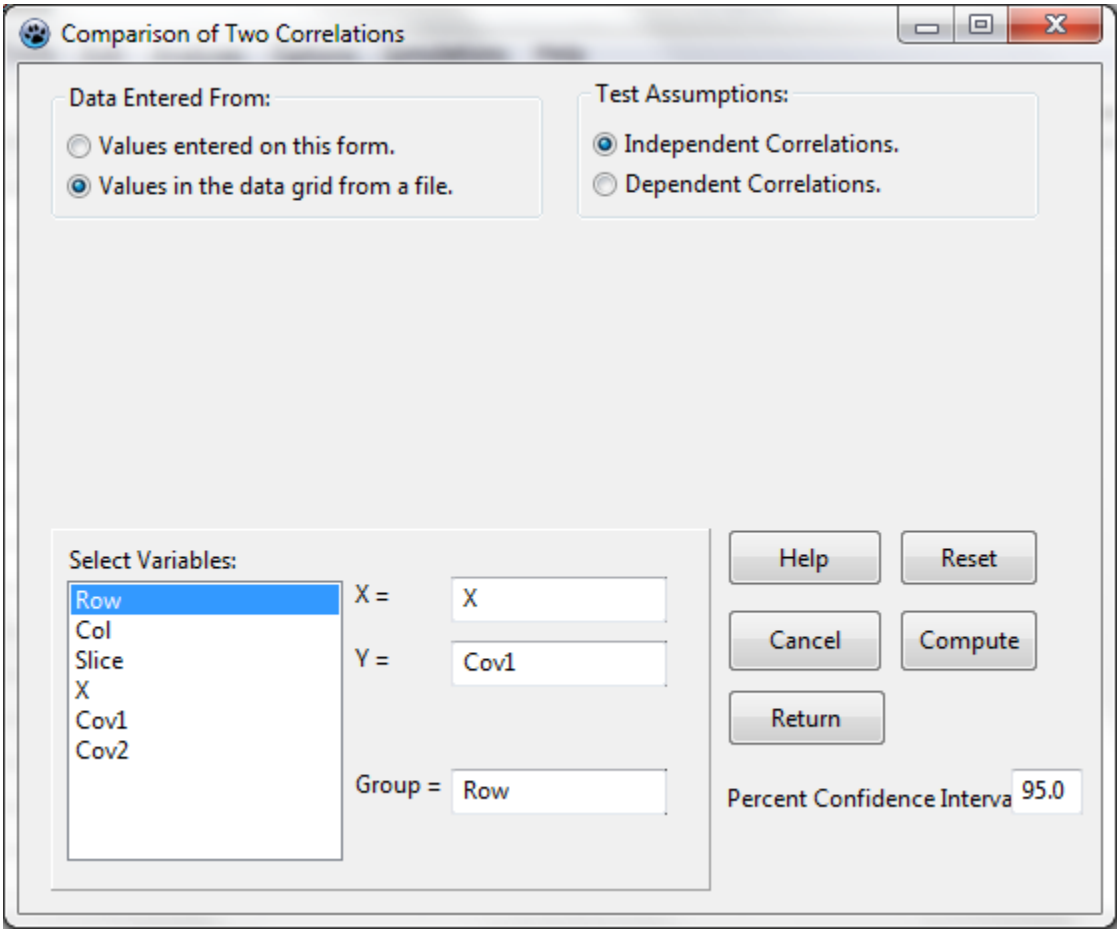


COMPARISON OF TWO CORRELATIONS

Correlation one = 0.400
Sample size one = 40
Correlation two = 0.600
Sample size two = 50
Difference between correlations = -0.200
Confidence level selected = 95.0
z for Correlation One = 0.424
z for Correlation Two = 0.693
z difference = -0.269
Standard error of difference = 0.220

z test statistic = -1.226
Probability > |z| = 0.890
z Required for significance = 1.960
Note: above is a two-tailed test.
Confidence Limits = (-0.605, 0.160)

Example 2. Comparison of Two Independent Correlations (Data on the Grid: ANCOVA3.LAZ)



COMPARISON OF TWO CORRELATIONS

Correlation one = 0.099
Sample size one = 36
Correlation two = -0.229
Sample size two = 36
Difference between correlations = 0.328
Confidence level selected = 95.0
z for Correlation One = 0.099

z for Correlation Two = -0.233
z difference = 0.332
Standard error of difference = 0.246
z test statistic = 1.350
Probability > |z| = 0.089
z Required for significance = 1.960
Note: above is a two-tailed test.
Confidence Limits = (-0.149, 0.672)
Mean X for group 1 = 3.500
Mean X for group 2 = 4.667
Std.Dev. X for group 1 = 1.276
Std.Dev. X for group 2 = 2.318
Mean y for group 1 = 3.778
Mean Y for group 2 = 4.111
Std.Dev. Y for group 1 = 1.807
Std.Dev. Y for group 2 = 1.545