Measure of Effect Size

- Effect size measures tell us how much variance can be explained by our experimental factors.
- partial η2 is a correlation between the dependent variable and different levels of a factor.
- For designs with more than one factor it can be a useful indicator of how much variance in the dependent variable can be explained by each factor (plus any interactions between factors).

So, to make sense of our output

• We found a significant effect of Beverage type (F (2,42) = 297.05, p < .001, partial $\eta 2$ = .93). Bonferroni comparisons revealed that the Water group differed significantly worse than the Single Espresso Group (p < .001), that the Water group differed significantly worse the Double Espresso Group (p < .001), and that the Single Espresso Group permed significantly worse than the Double Espresso Group (p < .001).

 In other words, drinking a some coffee improves motor performance relative to drinking water, and drinking a lot of coffee improves motor performance even more.