Factorial ANOVA

Prior to the steps below, enter the data as appropriate for the analyses (described elsewhere). As always, the following commands should be typed directly in the R console window.

Obtaining Descriptive Statistics

Get the mean, sample size, and standard deviation for the dependent variable for each of the levels. Also, get the means for the main effects.

```
Results <- aov(Outcome~FactorA*FactorB)
model.tables(Results,"means")
tapply(Outcome, list(FactorA,FactorB), length)
tapply(Outcome, list(FactorA,FactorB), sd)
```

Obtaining Inferential Statistics

Get the analysis of variance source table and a test of statistical significance.

```
summary(Results)
```