# Independent Samples t Test

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 and standard deviation of the dependent variable for each of the levels.

```
(Outcome~Factor) |> describeMoments()
```

**Obtaining Inferential Statistics**

Get the mean difference and its confidence interval.  Though the confidence interval defaults to 95%, it can be changed if desired.

```
(Outcome~Factor) |> estimateDifference()
(Outcome~Factor) |> estimateDifference(conf.level = .99)
```

Test the mean difference for statistical significance.

```
(Outcome~Factor) |> testDifference()
```

Get the standardized effect size for the mean difference.

```
(Outcome~Factor) |> standardizeDifference()
```