Correlations

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 sample sizes, means, and standard deviations for the variables.

```
lapply(CorrelationData, function(x) c(length(x), mean(x), sd(x)))
```

Get the covariance and correlation matrices for the variables.

```
cov(Outcome1,Outcome2)
cor(Outcome1,Outcome2)
```

Get the correlation matrix for the variables.

```
(CorrelationData) |> describeCorrelations()
```

Obtaining Inferential Statistics

Get the correlation, its test for statistical significance, and its confidence interval.

```
cor.test(Outcome1,Outcome2)
```

You can change the width of the confidence interval if desired.

```
cor.test(Outcome1,Outcome2,conf.level=.99)
```