```r
dataset = rio::import("ExamAnxiety.sav")
data = dataset
```

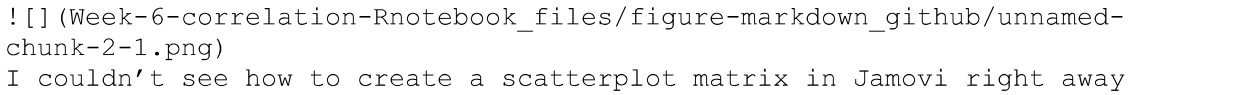
Correlation
==========

Create a scatterplot matrix

```r
jmv::corrMatrix(
    data = dataset,
    vars = vars(Code, Revise, Anxiety, Exam),
    flag = TRUE,
    n = TRUE,
    ci = TRUE,
    plots = TRUE,
    plotDens = TRUE,
    plotStats = TRUE)
```

```
    ##
    ##  CORRELATION MATRIX
    ##
    ##  Correlation Matrix
    ##
-------------------------------------------------------------------------------
    ##                                 Code          Revise        Anxiety
Exam
    ##
-------------------------------------------------------------------------------
    ##    Code       Pearson's r
    ##               p-value
    ##               95% CI Upper
    ##               95% CI Lower
    ##               N
    ##
    ##    Revise     Pearson's r     -0.2218286
    ##               p-value          0.0243239
    ##               95% CI Upper    -0.0295735
    ##               95% CI Lower    -0.3982564
    ##               N                      103
    ##
    ##    Anxiety    Pearson's r      0.1135652    -0.7092493
    ##               p-value          0.2533730    < .0000001
    ##               95% CI Upper     0.3004859    -0.5977733
    ##               95% CI Lower    -0.0817562    -0.7938168
    ##               N                      103           103
    ##
    ##    Exam       Pearson's r     -0.0977938     0.3967207    -0.4409934
_
    ##               p-value          0.3257336     0.0000334     0.0000031
_
```

```
    ##                95% CI Upper     0.0975776     0.5481602    -0.2705591
_
    ##                95% CI Lower    -0.2859075     0.2200938    -0.5846244
_
    ##                N                       103           103           103
_
    ##
-------------------------------------------------------------------------------
    ##    Note. * p < .05, ** p < .01, *** p < .001
```


chunk-2-1.png)

I couldn't see how to create a scatterplot matrix in Jamovi right away so I found some R functions. The code is below.

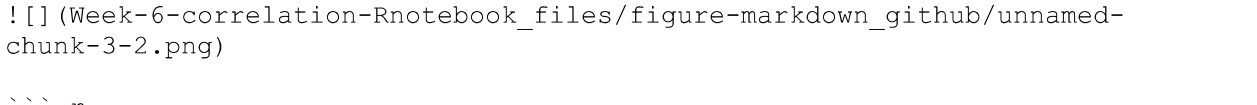
```r
# The pairs and plots functions are part of baseR

# pairs using column numbers
pairs(data[,2:4], pch = 19)

# pairs using formula format
pairs(~Revise + Exam + Anxiety, data=data, pch = 19)
```


chunk-3-1.png)

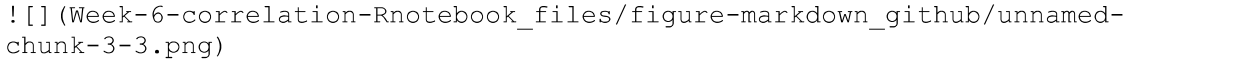
```r
# Plot
plot(data[ , 2:4] , pch=20 , cex=1.5 , col="#69b3a2")
```


chunk-3-2.png)

```r
# the ggpairs function is part of GGally package which expands ggplot2 package

library(ggplot2)
library(GGally)

# ggpairs using column numbers
GGally::ggpairs(data,columns=2:4)
```


chunk-3-3.png)

```r
# ggpairs using column names
GGally::ggpairs(data,columns=c('Revise','Exam','Anxiety'),lower =
list(continuous = "smooth"))
```