

Writing Basic R code

First: download the file **Survey Responses** from D2L

Second: Right click on the file, point to 'Open with' and select RStudio

Third: In the window labelled Console, type: `attach(responses)` and hit enter

You now have access to the raw data from (most of) the responses to the student survey. To make graphical displays and summarize the responses, just copy the code below, paste it into the console window, and replace `variable` with the Q# you are interested in.

Categorical

Frequency Table:	<code>table(variable)</code>
Relative Frequency Table:	<code>table(variable)/length(variable)</code>
Bar Chart:	<code>barplot(table(variable))</code>
Pie Chart:	<code>pie(table(variable))</code>
Contingency Tables (2 Variables):	<code>table(variable1, variable2)</code>
Segmented Bar Chart (2 Variables):	<code>barplot(table(variable1, variable2))</code>

Quantitative

Histogram:	<code>hist(variable)</code>
Stem and Leaf Plot:	<code>stem(variable)</code>
Mean:	<code>mean(variable)</code>
Median:	<code>median(variable)</code>
Range:	<code>range(variable)</code> *gives min and max value
Interquartile Range:	<code>summary(variable)</code> *gives 5 number summary
Variance:	<code>var(variable)</code>
Standard Deviation:	<code>sd(variable)</code>
Boxplot:	<code>boxplot(variable)</code>

If you get NA as an answer for any of the Quantitative functions that means there are missing responses for that question. No worries, just use `na.omit(variable)` instead of just the variable name. Example: `mean(na.omit(variable))`

The list of survey questions is available on D2L for reference.