R Project Outline

Basic Outline for the Project

Title

- Something interesting and descriptive.

Summary

- Something Grandma and Grandpa can understand.

Methods

- Start by briefly describing the data.
- Next explain the approach (e.g., model, hypothesis test) you choose and why.
- Make sure to give proof that you understand why the specific approach was appropriate.

As you work toward writing up the project, consider the audience is not a course instructor, but someone with minimal knowledge of statistics

Results

- Give what program and functions/packages were used in the analysis.
- Provide a statistical description of the results, more detailed than provided by the summary.
- Give an indication of what we can infer from the analysis.
- Include any relevant figures and plots.

R Code

Option #1 - Using a script file

- Anything following a hashtag, #, in a script is read as a comment in R and will not be implemented. This means you only need have one set of code, since R will not take action on a comment. You can include comments at each step explaining what the code is meant to do. -Don't leave me guessing why you did something, or where a piece of information may have come from.

Option #2 - Rmarkdown file

- This is preferred but not required. It means learning to use Rmarkdown and creates I much nicer output file. See below for intro to Rmarkdown.

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

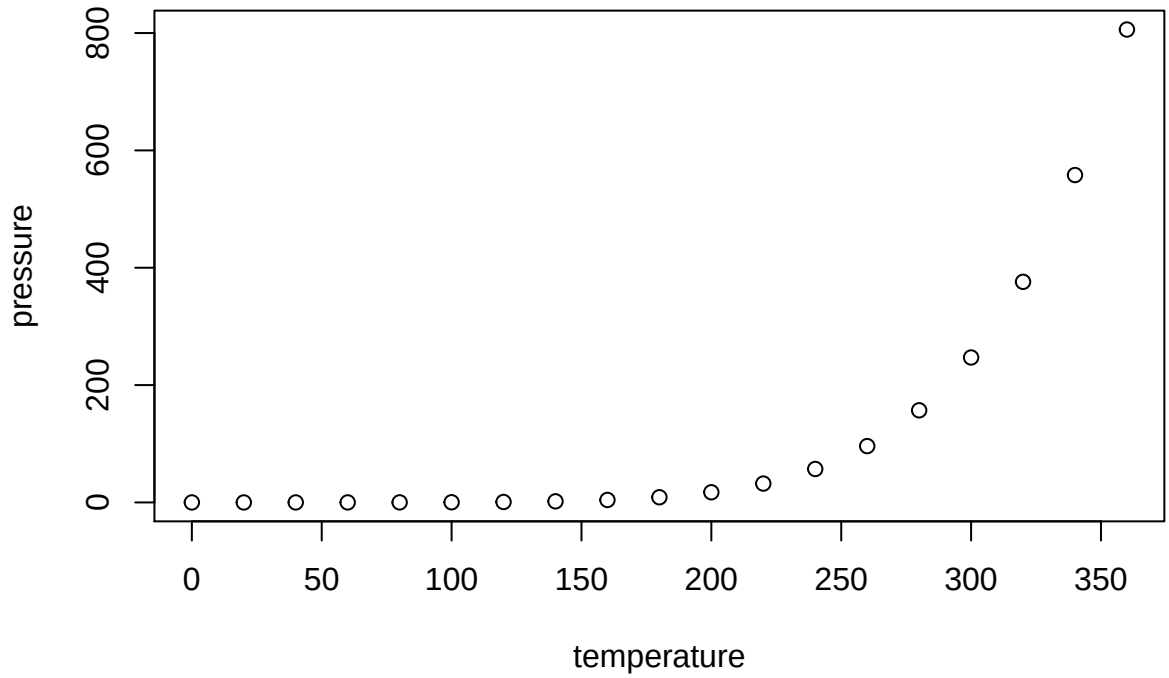
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
summary(cars)
```

```
##      speed           dist
##  Min.   : 4.0   Min.   :  2.00
##  1st Qu.:12.0   1st Qu.: 26.00
##  Median :15.0   Median : 36.00
##  Mean   :15.4   Mean   : 42.98
##  3rd Qu.:19.0   3rd Qu.: 56.00
##  Max.   :25.0   Max.   :120.00
```

Including Plots

You can also embed plots, for example:



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.