Lab1: RMarkdown

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# Lab 1

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>.

## Knitting & Embedding Code Chunks

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. By default ‘echo’ is set to TRUE to show the code that generates plots. There is another parameter ‘eval’ that by default is set to TRUE to show the code that creates results.

## Your Assignment

In this lab, you will work with either the data you have brought to lab from your own research/collaborative research group or you may use the penguins.csv dataset that is posted under Lab 1 data on our course [Google drive](https://drive.google.com/drive/folders/1DLR86n3vuSmx2j-bv5D3PRa7b339GaPd). you will use the R CheatSheet available on our course Brightspace page under the assignments tab and any online resources to:

1. create an RMarkdown file that will be knitted as a word document you turn in;
2. read in your multivariate data set;
3. use the **head** function to show the columns and first several rows of your dataset;
4. create a bulleted list describing the columns in your dataset and the type of variable that each column represents (e.g., ordinal, categorical, continuous, etc. per the lab lecture slides);
5. and create a plot of some of your data.

Please be sure to show all code and results in your knitted word document. Also, create sub-headings for tasks 2-5 above. If you use the penguins data, then additional metadata on that data are available [here](https://allisonhorst.github.io/palmerpenguins/).