MyFirstRMD

D. ODay

7/14/2021

R Markdown (This is a level two header. Compare it to what it looks like in 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:
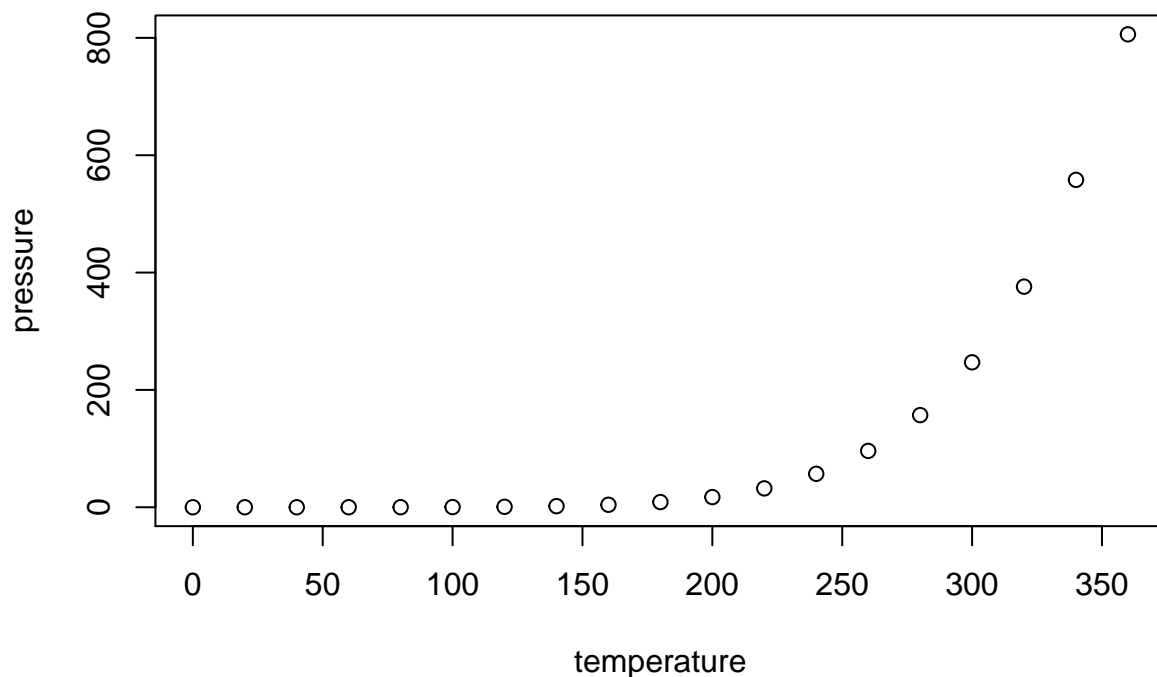
```
summary(cars)
```

```
##      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:

```
plot(pressure)
```

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

Things to always do in R Markdown

- Use relative and not absolute paths
  - "../filename" goes up one level
  - "/Data/filename.csv" would access the *filename* in the Data folder of your current directory
- Put any data you are using in a data folder
  - if(!file.exists("Data")){dir.create("Data")}
- Show the code for any assignment you are turning in unless instructed otherwise
  - make sure 'echo=True' is always on
- Comment out lines that you use for debugging you code
- Include your test cases and their output when needed
- At the very end put an R chunk that has sessioninfo()
  - This will document in document the levels and editions of packages used

Things to never do in R Markdown

- setwd

– don't want to set the directory on someone elses computer
- install packages

Helpful tips

- name code chunks (each name must be unique)
  – When document knits it tells where problem occurs
- knit frequently
  – any substantial change or code. Check to make sure it works
- Try out commans in the console first, the put in code chunks
  – can help prevent knitting issues
  – can try in console, got to history tab and 'put in source' once you get it to work
- If you can't get it to knit, set eval=FALSE in the problem chunk until you can debug it
  – allows us to work on other things until we deubg it

Shorcuts that may help on mac

- cmd + option + I will insert a new chunk
- cmd + shift + enter will run that code chunk