ANA 515 Assignment 1 R Markdown

Follow these steps to create word document using R markdown.

1. Create a new R markdown file

YAML:

* 1. Include your full name as the author
  2. Include “ANA 515 Assignment 1” in the title
  3. For the output, use a theme:

output:

word\_document:

theme:

bootswatch: \* \*

\*\*Google ‘bootswatch themes’ and pick one that you like. Put the name of the theme in place of the \* \* above. (You may need to install the bslib package)

1. For every code chunk, decide if you want the code and/or the results to show in your output document. (You probably don’t want the code to show in your output document, but you would want the inline code and graphs). Then, use the appropriate function that tells it to run the code but doesn’t show the code and/or results in the final document.

The function goes in the brackets at the top of your code chunk, like:

```{r function = ?}

Your code here

```

*Not sure how?* Go to <https://r4ds.had.co.nz/r-markdown.html>

and check out the section: 27.4.2 Chunk options

1. Install the following packages (you can use the tools menu to install or put the install functions in a code chunk)
   1. tidyverse
   2. knitr
   3. bslib
2. code chunk to get the dataset from GitHub/fivethirtyeight

Here is the url to the data: 'https://raw.githubusercontent.com/fivethirtyeight/guns-data/master/full\_data.csv'

You will use that url to get the data from GitHub to your R Studio wd

*Not sure how?* Go to <https://beanumber.github.io/sds192/lab-import.html> and check out the section: Data from a CSV

1. code chunk to create a subset of gun\_deaths
   1. Call the installed packages
   2. create a new dataset with the name of ‘youth’ from the dataset ‘gun\_deaths’ that filters gun\_deaths by

age <= 65

*Not Sure how?* Go to <https://datasharkie.com/how-to-filter-by-value-in-r/> and check out the section: Part 4 Filter by single value in R

1. Get a summary of the youth dataset to better understand the data (you don’t need this to show in the output document)
2. Write inline code that says:

We have data about [insert the inline code for the number of rows in the original dataset] individuals killed by guns. Only [insert the inline code for the number of rows in the original dataset minus the number of rows in the filtered set, youth] are older than 65. The distribution of the remainder is shown below:

*Not sure how?* Go to <https://rmarkdown.rstudio.com/lesson-4.html>

1. Code chunk to graph the distribution of the age variable from the youth dataset:

Use the ggplot function:

*# Gun deaths by age*

```{r youth-dist, echo = FALSE}

youth %>%

ggplot(aes(age)) +

geom\_freqpoly(binwidth = 1) ```

1. Code chunk to graph the distribution of youth by race

Use the ggplot function:

*# Gun deaths by race*

```{r race-dist, echo = FALSE}

youth %>%

ggplot(aes(fct\_infreq(race) %>% fct\_rev())) +

geom\_bar() + coord\_flip() +

labs(x = "Victim race") ```

Add any styling/formatting you would like.

Knit your document.

Follow the instructions in the assignment to upload your code and output to GitHub.