COMPSCIX 415.2 Homework 2

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DUE DATE: Feb 13, 2018 @ 6:15PM

In this assignment. . .

. . . we will work on visualization in R using the ggplot2 package. You will learn the grammar of graphics, ggplot2 syntax, and will create and analyze graphics.

Remember to make your document look good, which means you may need to change some settings on the figure sizes and locations, use markdown syntax to create headings or to format your text (use the cheatsheet), and you may want to play with the different themes.

Remember to save and knit often. Commit when you've completed a big chunk of work or when you are done for the day and will be resuming later.

What to Turn In

Do not send a link to your file on Github. This was only an option for the first assignment. For this assignment you have two choices:

You can upload a pdf document (you will have to install latex)
You can upload a standalone html file. If your html file has dependencies, for example, if you notice that when you knit your document your figures are being saved as png files in an automatically created sub-folder, and you see that your html file is sourcing those figures in that folder, then you need to set the `self_contained` setting in your YAML:

```
---
title: "your title"
output:
  html_document:
    self_contained: true
---
```

Prerequisite

Basic R Markdown knowledge
R and RStudio
ggplot2 or tidyverse package installed
Access to internet
git and Github

Exercises

Here are the exercises for you to complete.

Go to R for Data Science at http://r4ds.had.co.nz/index.html.

Complete these Exercises:

Section 3.2.4: all exercises
Section 3.3.1: all exercises
Section 3.5.1: #4 and #5 only
Section 3.6.1: #1-5. Extra Credit: Do #6
Section 3.7.1: #2 only

Answer these questions:

1. Look at the data graphics at the following link: What is a Data Scientist. Please briefly critique the designer's choices. What works? What doesn't work? What would you have done differently?

Turn in your completed assignment

Commit your changes with the comment "finished assignment 2" and push your R Markdown file and your html file to Github.

This week you should turn in your assignment by uploading it to Canvas.