Homework 8

This assignment should be turned in as an RMardown script and knitted html file, as usual. You must also provide the data used to generate the plots.

Question 1. Use your own data to generate two publication-quality plots based on the data visualization principles discussed in class. If you don't have your own data, use a data csv that seems interesting to you from this website: https://vincentarelbundock.github.io/Rdatasets/articles/data.html. Be sure the data you're feeding in has been converted into a tidy format. **Generate plots of two different styles.** Here's _some_ of the criteria your plots should meet:

1) Legible font styles and sizes
2) No lines throughout the background of the plot
3) Properly labelled axes (e.g., informative names, proper subscripting, no underscores, etc.)
4) Properly scaled axes
5) Easily distinguishable colors
6) Include a legend as appropriate
7) Include a complete caption that thoroughly explains all aspects of each plot needed to understand its message.

Question 2. Use the same data used in question 1 to generate an ugly plot. Here's some examples from a different course: https://gzahn.github.io/data-course/uglyplotcontest.html. Reach beyond the ggplot operations discussed in class. You'll be graded the inverse of the above guidelines. Depending on your experience with ggplot, you should spend ~1 hour on this question exploring the arguments of functions we discussed and finding your own.