The purpose of this week's data dive is for you to think critically about the importance of documenting your model, but also the importance of referencing the documentation for the data you're using.

**Your RMarkdown notebook for this data dive should contain the following:**

* Build at least **three** pairs of variables
  + For each pair of variables, include at least one column that *you* created (i.e., calculated based on others)
  + All variables for this data dive should be either continuous (i.e., numeric) or ordered (e.g., ['small', 'medium', 'large'] is okay, but ["apples", "oranges", "bananas"] is not)
  + At least **one** pair should be a response variable and an explanatory variable
* Plot a visualization for each relationship, and draw some conclusions based on the plot
  + Use what we've covered so far in class to scrutinize the plot (e.g., are there any outliers?)
* Calculate the appropriate correlation coefficient for each of these combinations
  + Explain why the value makes sense (or doesn't) based on the visualization(s)
* Build a confidence interval for each of the **response** variable(s). Provide a detailed conclusion of the response variable (i.e., the population) based on your confidence interval.

For each of the above tasks, you must explain to the reader what insight was gathered, its significance, and any further questions you have which might need to be further investigated.