## Introduction to Data Science Homework 2: Due Wednesday September 5 at 2:00pm

## **Exercises:**

- 1. Read the Structured Data handout and the first few sections through  $Visualising\ distributions$  of R for  $Data\ Science$ .
- 2. Find a data set or data sets that exemplify each of the terms: rectangular or tabular data, continuous, discrete, categorical, binary, ordinal.
- 3. True or False: The diamonds data set in the ggplot2 package is a data frame. One way to answer this question is by typing the command str(diamonds) in R.
- 4. True or False: The diamonds data set in the ggplot2 package is "tidy."
- 5. How many variables are there in the diamonds data set?
- 6. Classify each of the variables in the diamonds data set. That is, state if the variable is continuous, discrete, categorical, etc.
- 7. Describe the difference between a bar plot and a histogram. Under what circumstances would you use each?