R Graphics Assignment Due: Tuesday, September 30th, 2014

Purpose: Becoming familiar with R Graphics and visually exploring data to see and discover relationships.

Recall the work we did with the ISwR package. It contains both the diamonds and the mpg datasets.

Create three different plots that reveal something interesting about either the diamonds or mpg datasets. For each graph, include the R code that you used to create the plot, and a one paragraph description of what you found interesting from that visualization of the data.

In most cases the first plot you try will not be the most informative and you will need to make multiple improvements to get a polished plot. To show this typical process of making improvements, for one of your plots, please show 3 to 5 iterations that lead you to this plot (these can be printed at a much smaller size).

In total, your homework should be 3 to 5 pages long.

You can talk about questions with your fellow students in the class, and it’s often useful to get feedback from others on your plots, but everything that you hand in should be yours and be unique.

You may use ggplot2 package if you wish, but you can use the standard plot features of R instead or use both of them for the entire assignment. (As in use ggplot2 package for 1 or 2 of the plots and use standard R plots for the other 1 or 2).