R Exercises Session 4

Introduction to R for Data Management and Analysis

June 14, 2016

**Note**: Use Ctrl (Command) + Alt (Option) + I or go to Code > Insert Chunk (from the menu) to insert a code block "chunk".

## Exercises

1. Create a histogram of the mtcars dataset with the mpg variable. Change the *x axis* label to "Miles per Gallon (mpg)".
2. Use the mtcars dataset to draw a scatterplot of weight wt and displacement disp. Draw a fit line using the lm function and formula notation.
3. Run the "pairs.panels" function from the psych package on the mtcars dataset. What variables are highly correlated (> |.80|)? What does it tell you about the displacement variable and the number of cylinders?
4. Create any 4 plots and put them in one single output device using the par function. Can you reorder the plots so that you get 4 in one column? Show your code.
5. Use the iris dataset to draw boxplots of Petal.Length for each of the species. Show your code.

## Extra credit

1. Create correlation matrix using only **numeric** observations in the mtcars dataset. Find the correlations that are greater than the absolute value of .80. What pairs of variables are highly correlated? Show your code.