R Exercises Session 3

Introduction to R for Data Management and Analysis

June 9, 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. Load the iris dataset. Take only the observations that have a Petal.Width greater than 2.0. Show your code.
2. Save the previous operation to an R object and use it to count the number of each Species with the table function.
3. Load the mtcars dataset. arrange or order the dataset by decreasing order in mpg.
4. Apply aggregate or summarize\_each to the mtcars dataset with a mean for each of the categories in the cyl or cylinder column. What cylinder category gets the most miles per gallon? What cylinder category has the highest mean weight (wt)? Show your code.
5. Consider a systematic error for the weight scale used in the ChickWeight dataset. The reading on each of the weights was consistently 5 grams lower than the actual weight. Create a new column in the ChickWeight dataset to adjust for the measurement error. Show your work.
6. Read in the babies.txt dataset in the Example data folder using the read.table function with headers enabled. For those observations that are 9 in the smoke variable, replace them with NA. To do that, first use the == operator to find observations equal to 9 in the smoke variable and then subset the smoke vector restricted to those observations and at the same time assign NA values to it. Show your work. If your assignment fails, re-import the data to get a clean dataset.