**Project 1 – Visualizing 911 Calls – Part 1**

The overall goal of the first project is to use visualizations to illustrate interesting facts about the frequency, timing, and location of 911 calls. The attached data contains information on all 911 calls made in Charleston, NC. During 2010 and 2011.

**Overview of Part 1**

Our first tasks involve cleaning up the raw data and creating new columns that we will use in out visualization. You will be working in groups of 2-3 students on the following tasks.

1. Clean up all of the textual columns using clustering and/or text facets.
2. Create a **length of call** variable using *calltime* and *timeclose*.
3. Extract various dateParts
   1. Month
   2. Day of week
   3. Time of day
   4. Etc. *be creative*
4. Compute **time\_since\_jan\_1st** (elapsed time since 1/1/2010) for various granulaties
   1. Days
   2. Hours
   3. Weeks
   4. Months
5. Make a new column based on the *nature* column, but with fewer and more broad categories. For example, you might combine all accidents (bicycle, automobile, etc.) into one category.

**Other Details**

1. Keep a detailed log of the steps/transformations along with your reasoning behind these changes. You will submit this in a separated attached word document.
2. Part of your grade will be based on an evaluation by your peers. **Make sure you do your part**!