MSiA-411 Data Visualization
Lab Exercise #6

Due Date: Wednesday, May 13

May 6, 2015

EXERCISE INSTRUCTIONS: Please submit your JPEG files on blackboard.

1. **Tableau.** For this exercise you will use the "04cars data" set and the "Superstore Subset" data set (comes with Tableau) we used in class last week..

   (a) ("Superstore Subset" data set) Come up with the right combination of SUM("Sales"), "Region", "Product Category (Department)" and "Product Sub-Category (Category)" to produce the a bar-chart graph (the order of regions does not matter):

   Customize the sorting options for Product Sub-Category so that the different items appear in ascending order based on the average profit they generated.

   (b) ("Superstore Subset" data set) Create a tree map from scratch (i.e. don't use the tree map from "Show Me"), where the size of the boxes depends on "Sales", the color depends on "Profit", and labels show State or Province" and "Profit".

   (c) ("Superstore Subset" data set) Create a symbol map for "Profit" in every "State or Province." Add labels to all states, and create two quickfilters: (1) "Sales" and (2) "Product Category."

   (d) ("Superstore Subset" data set) Create a Dashboard for the the graphs you constructed in (a), (b) and (c). In the dashboard set your map as a filter. This means that whenever you click on one state, the other two graphs will show information regarding that state/region. Click on California and save the dashboard as a JPEG file.

   (e) ("04cars data" set) Create a scatterplot for "HP" versus "Retail Price". Fit an exponential trend line through the data. Save your resulting graph as a JPEG file.