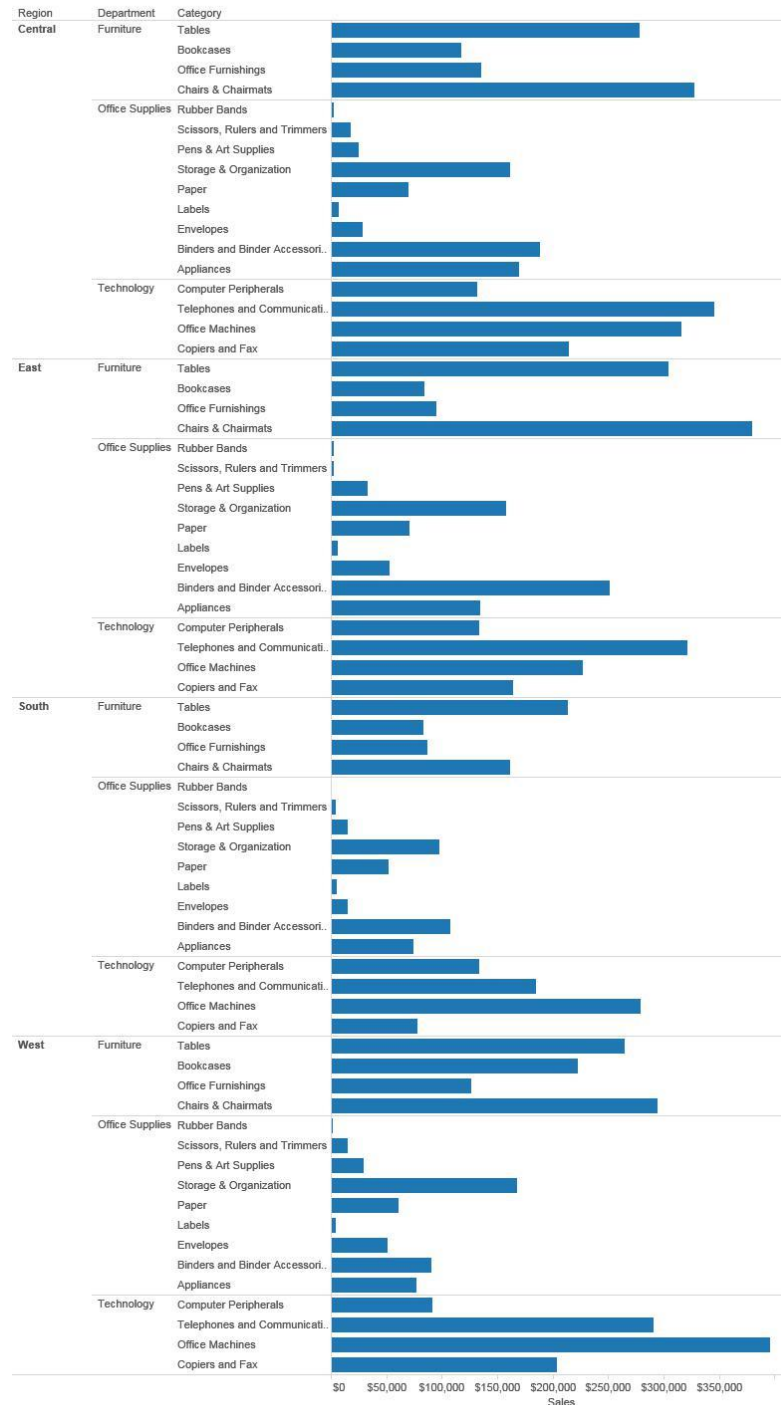


## Data Visualization Lab 6 – Steven Lin

(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 barchart graph (the order of regions does not matter):Customize the sorting options for Product Sub-Category so that the different items appear inascending order based on the average profit they generated.

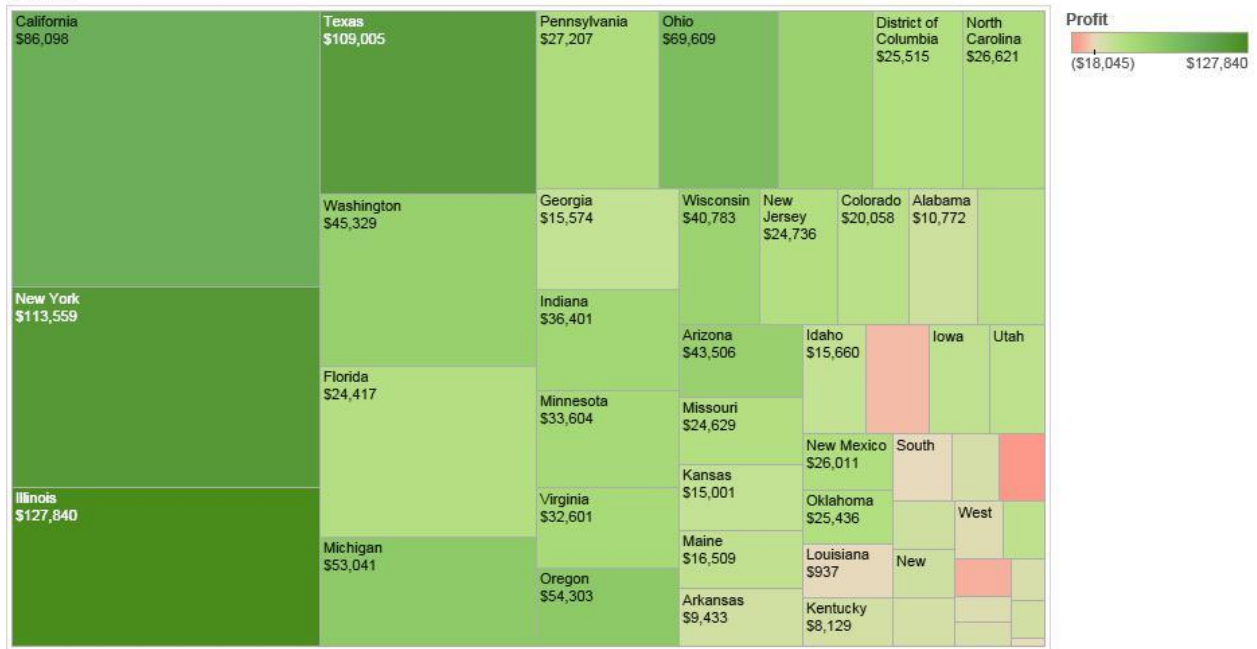
Part (a)



Sum of Sales for each Category broken down by Region and Department.

(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".

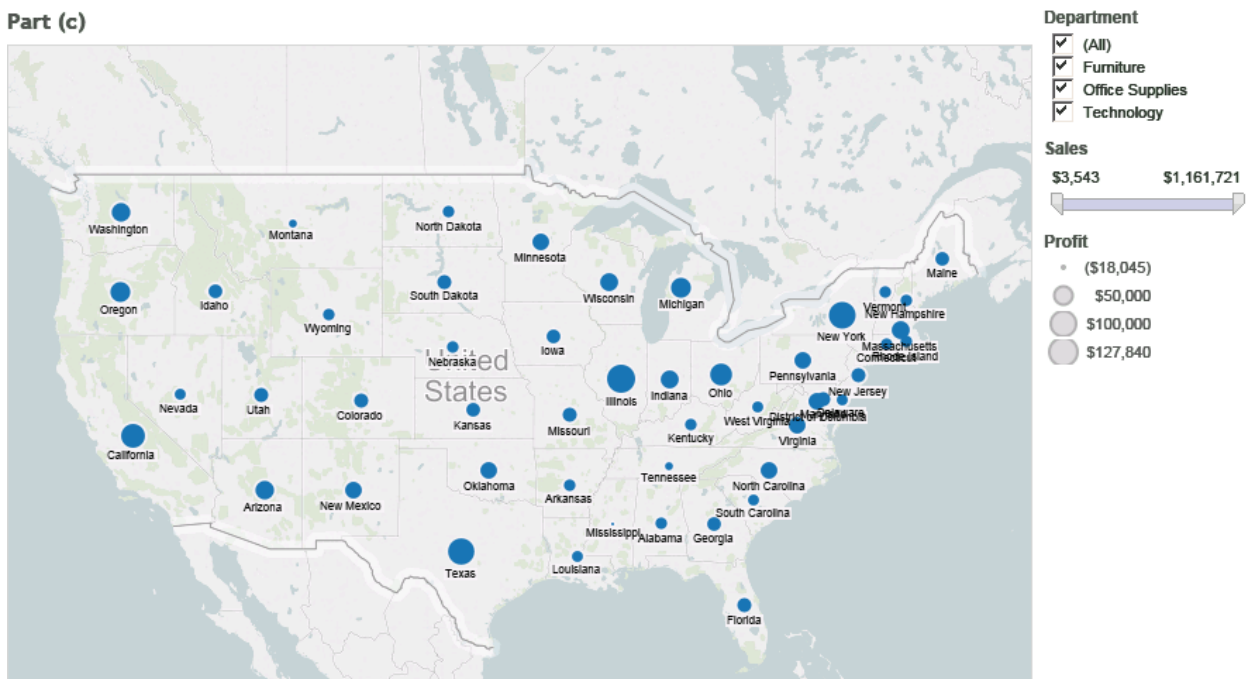
**Part (b)**



State and sum of Profit. Color shows sum of Profit. Size shows sum of Sales. The marks are labeled by State and sum of 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."

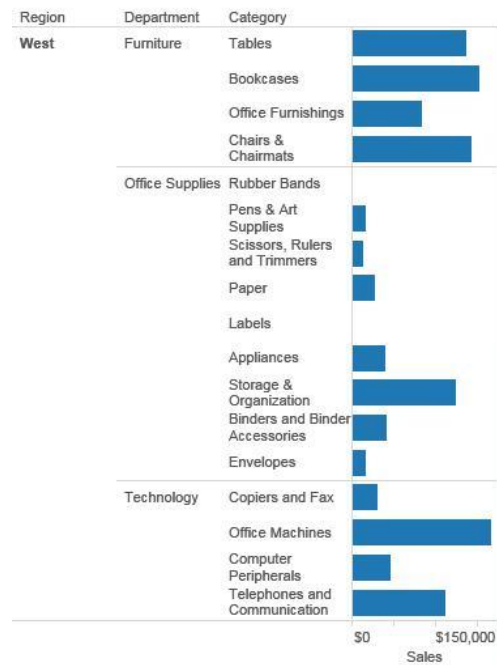
**Part (c)**



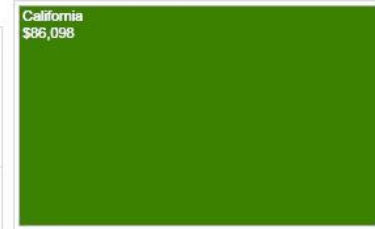
Map based on Longitude (generated) and Latitude (generated). Size shows sum of Profit. The marks are labeled by State. Details are shown for State. The data is filtered on Department and sum of Sales. The Department filter has multiple members selected. The sum of Sales filter ranges from \$3,543 to \$1,161,721.

(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.

Part (a)



Part (b)



Profit



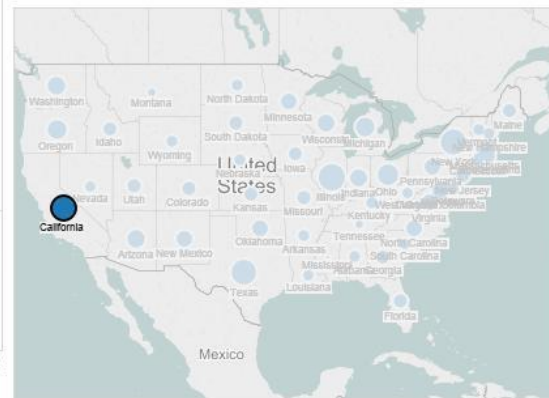
Department

- ☒ Furniture
- ☒ Office Supplies
- ☒ Technology

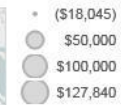
Sales

\$3,543 to \$1,161,721

Part (c)

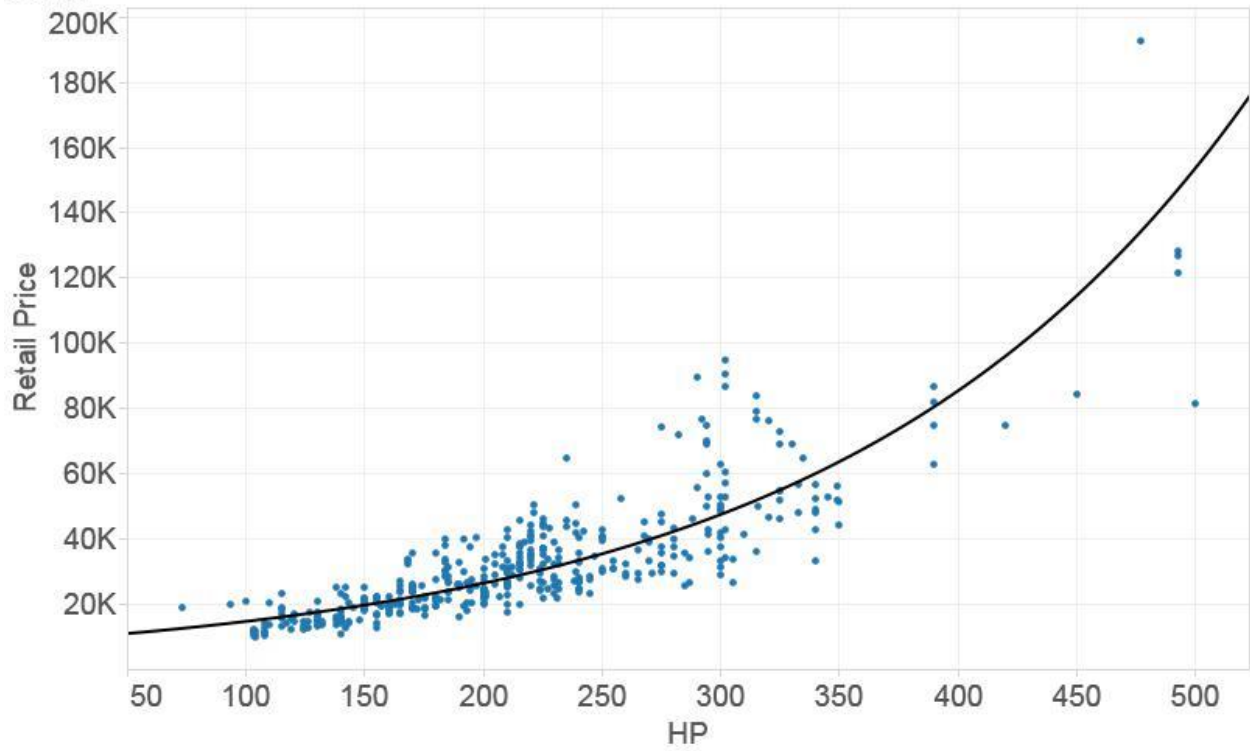


Profit



(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.

Part (e)



HP vs. Retail Price.