CS 171/CSCI E-64: Visualization
Homework 3, Group Reflections

James Goodspeed – jgoodsp@fas.harvard.edu

I had the assistance of Devin Shackle with reviewing my submission for Homework #3.

1. **Many Eyes, Part C:** Devin had a stacked line chart showing the apple production for each state and I had a grouped bar chart in my original submission. I think that both charts accurately and easily display the data and answer the question being asked. I like his implementation and I think it does a better job of showing change over time, but I've left my implementation as a grouped bar chart. I found it hard to answer the question of which state had the least production of apples with the stacked line graph. The grouped bar chart didn't do as good of a job showing the change over time, but the ability to order the states clearly showed the highest to lowest production states.

2. **Tableau, Which Primary Programming Language do students feel most comfortable with:** Devin and I answered this question different ways. I took the average of the coding skills, which gave me a range of 1 to 5 and showed Ruby, as the language students feel most comfortable since people who chose Ruby rated their coding skills very high even though the total number of people who chose Ruby was very small. Devin took a count of the most popular programming languages, which is C even though the students who chose C rated their skill with it lower. I left my implementation as is as I think it just depends on how you look at this question. Is comfort level the highest level of coding skill or is it a count of the most popular language?

3. **Project:** Devin pointed out that changing the x axis from linear to logarithmic might get the plot line to straighten out which might be useful in predictive analytics. The screen shot below shows the scatter plot with a logarithmic scale on the Per Capita expenditure axis. I think that as long as the user is clearly made aware that the scale is not linear and is logarithmic that this form of the visualization also has benefits.

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