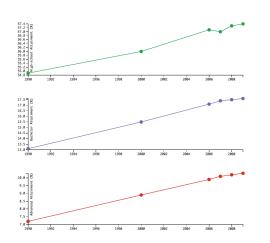
# Information Visualization(D3.js)

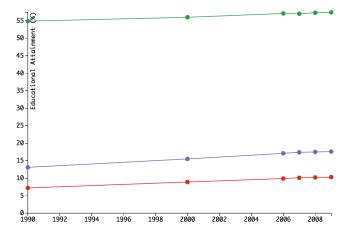
# The first task:

Generate visualizations to compare the Educational Attainment data by states, by categories, and by time. And there are three types of graphs.

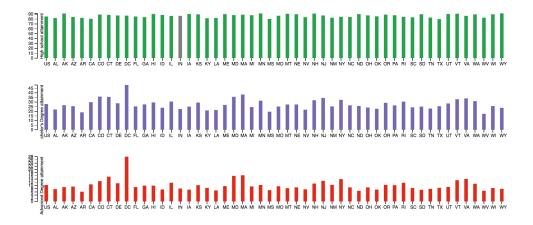
I listed several examples.

## LineChart:

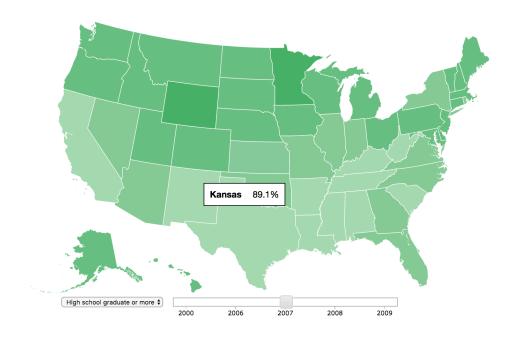




# **BarChart:**



# Geo-Map:



# Future work:

- 1. As for the bar chart, it would be better to sort them, then present it.
- 2. When users mouse over the item in the bar chart, highlight the corresponding item in other graphs.
- 3. There is a bug in geo-map caused by Callback Hell, users must mouse over the map after moving the slider or select the category to display corresponding map. I will fix it later.

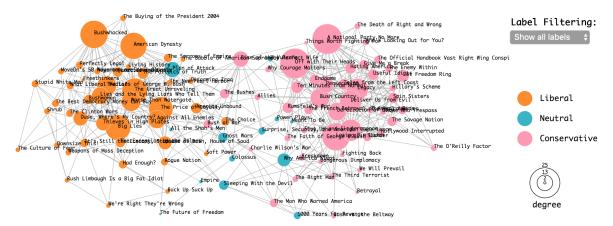
# The second task:

Generate network visualizations using D3.

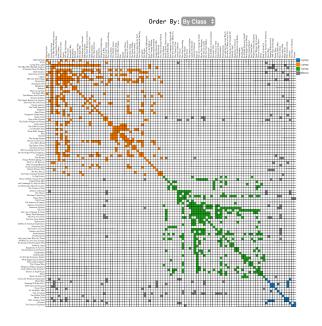
### Node-Link:

### **BOOKS ABOUT US POLITICS**

#### Network with Force Directed Graph Layout

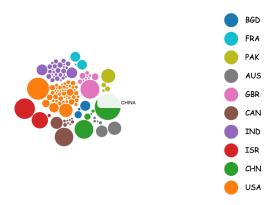


# Matrix:



#### The Third task:

Using d3.js to visualize the aids provided by international organizations after the 2015 Nepal Earthquake



# **Next project:**

Now I just started my next project, present Pittsburgh biking sharing data to show users' demand by stations over time.

#### Data:

Bike ID	From_Station	To_Station	Start_Time	End_Time

I plan to plot a line chart.

- 1. X: time; Y: number of bikes in this station.
- 2. This could be a very long line chart, so I decided to add user interaction functions. Zoom in or zoom out to change the time span. The time span could be a day, or a month....
- 3. Drag to the left or right to check the data in another day.
- 4. This graph can be used to check the number of bikes within a day, or reveal a cyclic pattern.

Then a geo-map.

- 1. Showing the connections within those stations.
- 2. Each station can be presented as a circle. And the amount of bikes can be the size of the circle.

3. This can be used to check whether there is any unbalance in allocating bikes.

#### Note:

Itype python -m SimpleHTTPServer in the command line
And use localhost:8000 to open it

Ziyi Lan ziyi.lan814@gmail.com 11/12/2016