Homework 2

CSC9005 : Data Visualization
March 29, 2020

1 Question 1

- In this assignment, you are provided with a **Census.csv** data set that has the population of different U.S. states by age group.

- Submit your HTML/D3 code via Moodle.

- Here is just a reminder how to set up your D3. This allows you to read local data from a folder.

    - Type in this command (I assume you already have python installed) : **python -m SimpleHTTPServer 8888** in python 2.7 or **python -m http.server 8888** in Python 3

    - Run your browser and type in the address: **http://localhost:8888** and you should see the local files and folders where you start your browser.

- Here are two tasks to do:

    - Task 1 :Stacked bar chart. (20 pts)

        * Create a stacked bar chart visualization using HTML5 and D3.js. A bar chart or bar graph is a chart with rectangular bars with lengths proportional to the values that they represent. A stacked bar chart presents the bars divided into subparts to show cumulative effect.

        * Below is a snapshot of a possible solution:
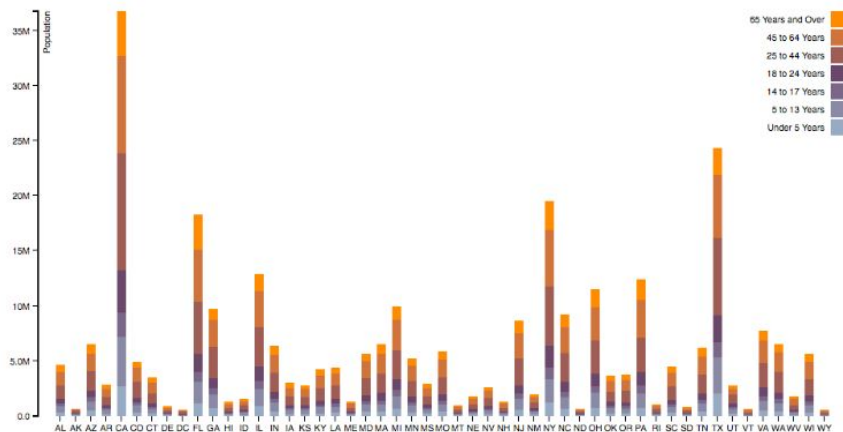

Figure 1: Possible solution of first task.

    - Task 2 : Bar chart sorting. (20 pts)

        * In the first task, the bars are sorted by the name of the states. In this task, you will modify the sort the bars by the population of the states in decreasing order, which means the state that has the largest population will appear in the leftmost. Only show the states of the top 20 largest population.
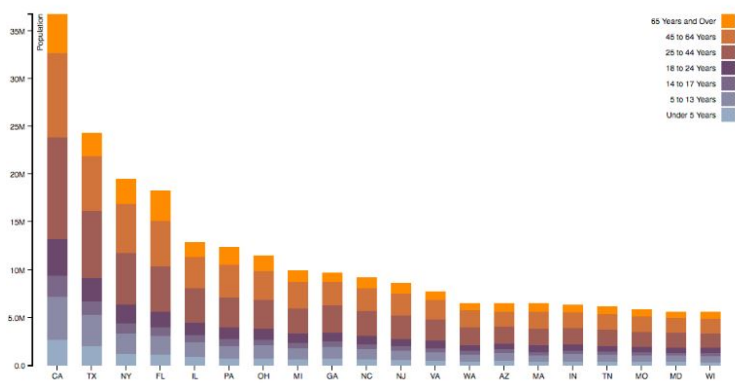
        * Below is a snapshot of a possible solution:

Figure 2: Possible solution of second task.