CGT 270 Data Visualization   Fall 2021
Module 1
Week 4
Lab 4: Filter & Represent

The goal of this lab is to filter and visually represent your **Tableau Training Data**. In this lab you will list two questions you want to answer with your Tableau Training data, filter the data to extract only the data needed to answer the two questions and generate visualizations of the filtered data.

By the end of this lab you should be able to:

Remember	***Describe*** what happens in the **represent** stage.
Understand	***Describe*** what stages are impacted by the **represent** stage and how.
Apply	***Demonstrate*** the ability to use the appropriate visualization tool/chart/layout for the task.
Evaluate	***Determine*** if the data is sufficient or if additional data is needed.
Analysis	***Determine*** if sufficient data is available to visually represent the data.
Create	***Plan, generate, and produce*** insightful visualizations.

You should create two visualizations. For each visualization provide a paragraph to support the visualization. You may use any visualization tool of your choosing. Make sure you use data visualization best practices (See Data Visualization Check list).

Take a screen capture of your visualizations and save each visualization as a separate .jpg file:
LastnameFirstInitial_Fig1.jpg
LastnameFirstInitial_Fig2.jpg

(PNG files WILL NOT be graded)

Upload your supportive paragraphs in this file.

Fig1 Caption:
My first question is that what is the most popular name in this dataset? My answer is James. From the graph, we can easily see that James is at the very top, and the count of James is 4,957,166. My visualization shows a clear ranking for the occurrences of the names. Each circle represents one name. Once people click on each circle, they can see the information of that name and occurrences. In this graph, I added counts to the rows. I did not added names to the row is because it is too much information for a graph and that graph will be huge if I did.

Fig2 Caption:

My second question is that what is the most popular name in each year? If people want to see that, they just need to click on the top circle each year. It is hard to write the whole answer down here since there are too many different years. However, we can see that Linda has appeared 99836 times in 1947; This is the one that has the most count if you only compare the number by years. In this graph, I added the year to columns and count to rows. People can see each name's information each year.