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:

This visualization answers the question that “How is the HIV influencing TB incidences in different regions from 2008 to 2013?” I employed an alternative form of bar graph, which is called horizontal bar in Tableau, and presented the general TB case detection for all regions in blue bars. I used red lines to show the detection of HIV in TB cases for each region, then labeled every element to show specific values.

Fig2 Caption:

This visualization is created to answer the question “How is TB mortality distributed in the world? Where does it have the most mortality and where the least? And how does HIV influence the mortality of TB incidence?” I used symbol map graph to show the answer. By using circle size to show the mortality of TB in general and circle color to show the influence of HIV on TB mortality, I generated the map that presented a rather clear view of the situation with obvious concentrations.