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:

Which neighborhood in New York is the most expensive to rent an Airbnb in?

![Chart, bar chart

Description automatically generated]()

To best answer this question, I chose to represent my data with a bar graph with the 2 variables: neighborhood and average price. This was because you could clearly tell which neighborhoods had higher or lower average Airbnb prices based on the height of the bar. This would let the viewer know immediately which area would best fit their price range. I also chose to leave the bars as one color because they were all representing the variable of average price.

Fig2 Caption:

Which Airbnb property type and room type has the most or least beds?

![Chart, bar chart

Description automatically generated]()

For this visualization, I included 3 variables: room type, property type, and average beds. I wanted to let the viewers know which types of Airbnb properties and rooms had their most preferred number of beds. I chose to visualize this in a chart with color because there were only a small range of beds which could easily be represented with different colors. I also chose contrasting colors so that it would be easier to tell the different amounts of beds.