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. |

Part I: Filter & Represent Activity Worksheet

Use the following link to complete the Filter & Represent Activity Worksheet

<https://tinyurl.com/Filter-and-Represent-Worksheet>

Your responses will be emailed to you. Save your responses as a PDF file.

You should create a minimum of two visualizations from the same data set (the Tableau data set)

For each visualization provide a paragraph to support the visualization (in a separate file). 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

**(PNG files WILL NOT be graded)**

Upload your supportive paragraphs in this file.

**Fig1 Caption:**

There are two variables in my first data visualization, Film and Profitability. The graph is two-dimension and has a title. It is a bar chart to show each film with its profitability. We can easily understand which film has the most profitability by knowing the length of each row. Also, I labeled each bar which represent the exact amount of profitability.

**Chart, bar chart

Description automatically generated**

**Fig2 Caption:**

There are three variables in my second data visualization, Film, Genre, and Audience Score. The graph is two-dimension and has a title. It is a bar chart and to show the different genres of film and their profitability. We can distinguish different genres by color. Also, we can know which film has the most profitability by knowing the length of each row

**Chart

Description automatically generated**