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

LastnameFirstInitial\_Fig2.jpg

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

Upload your supportive paragraphs in this file.

**Fig1 Caption:**

This graph shows the average attack stat of each Pokémon type. The color denotes relatively which percentile the stat is in. Red is top 33%, gray is mid 33%, and blue is bottom 33%. I chose this color scheme because red is usually used to denote an attack and blue is a calmer color. I use a bar graph to clearly show which Pokémon types have the highest attack. I organize the columns alphabetically so the order between graphs stays the same.

**Fig2 Caption:**

This graph shows the average defense stat of each Pokémon type. The color denotes relatively which percentile the stat is in. Dark gray is top 33%, light gray is mid 33%, and red is bottom 33%. I chose this color scheme because dark gray is similar to hard objects like steel or rock. I use a bar graph to clearly show which Pokémon types have the highest defense. I organize the columns alphabetically so the order between graphs stays the same.