Answer 2.3
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Influenza Vaccination and Population Analysis by State

Evaluation of the Pie Chart

The pie chart does a good job of showing all the states and their influenza deaths, but it's not the best choice for this data. There are too many slices, which makes the chart look crowded and harder to read. Some slices are so small that they're barely visible, and several states share the same or very similar colors, like Louisiana and Pennsylvania. These issues make it difficult to quickly understand the data or compare between states.

A better option might be a bar chart or treemap. Both can handle a larger number of categories and display the data more clearly without the clutter. While the pie chart technically works, it's not the best way to present this data.
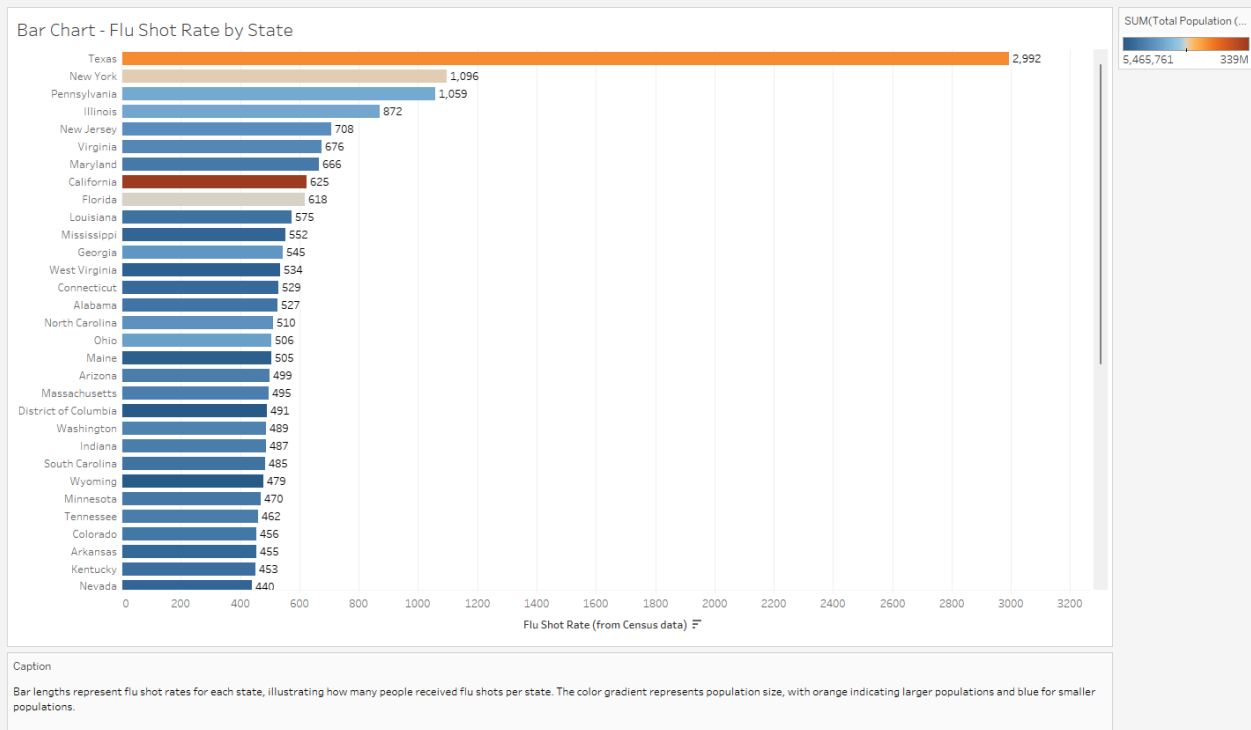

Total Influenza Deaths by State
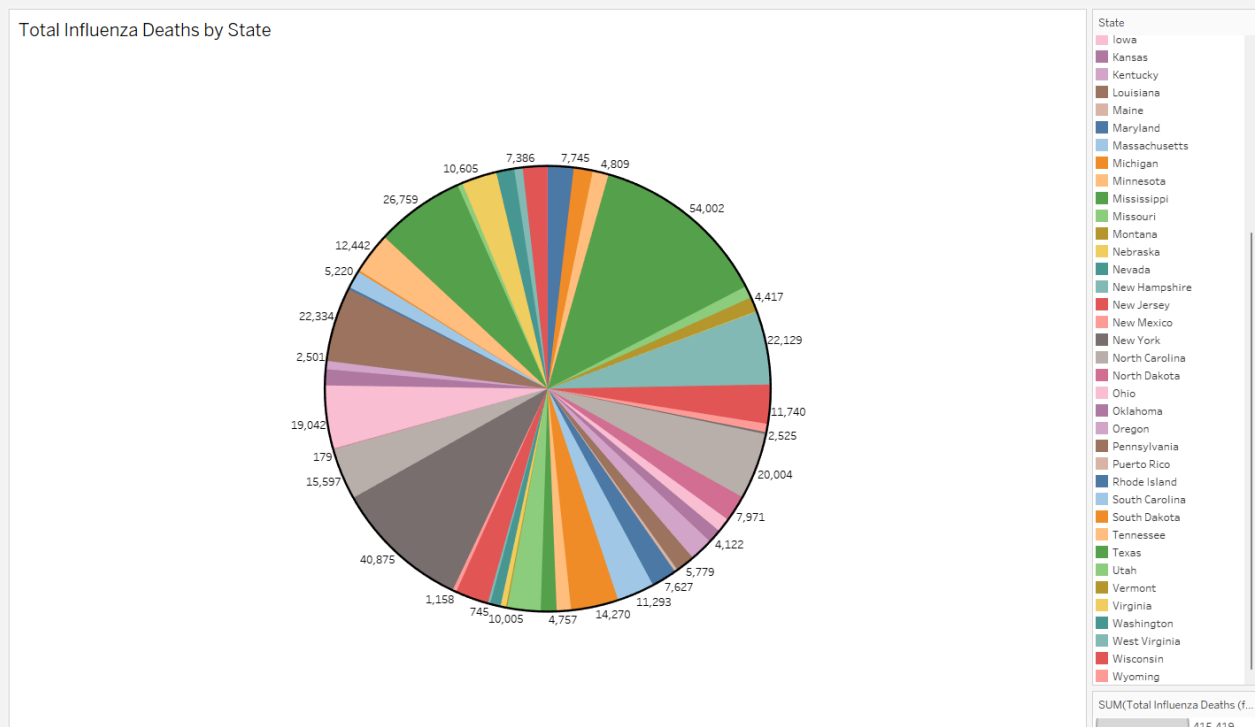
Bar Chart Reflection

For this task, I created a bar chart to represent Flu Shot Rates by State since the dataset did not have an age variable. The chart displays bar lengths to show the total flu shot rate for each state, and I added a color gradient to represent population size as the second variable. I used an orange-blue diverging color palette to differentiate states with larger populations (orange) from those with smaller populations (blue).
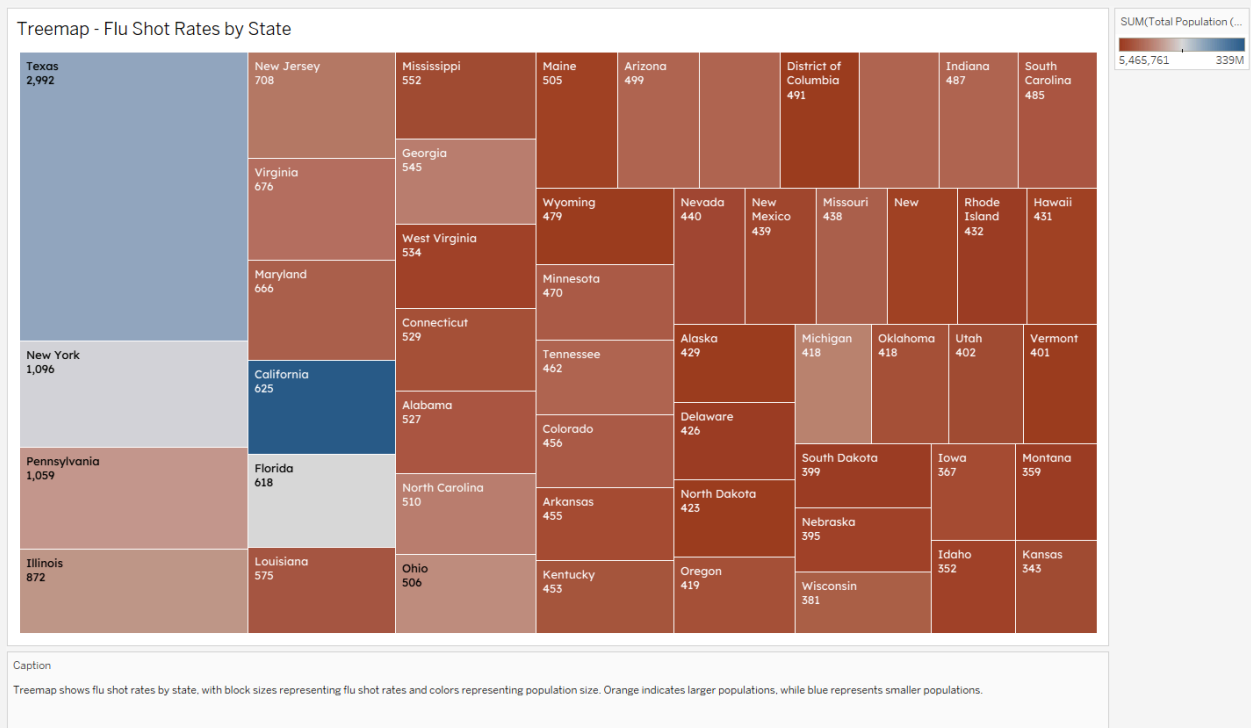
To improve clarity, I included a caption explaining the relationship between the two variables, ensuring that viewers can interpret the visualization easily. While the chart effectively shows the flu shot rate and population size, it highlights differences between states, such as Texas having significantly higher flu shot

rates than others. Overall, this bar chart is easy to read and aligns with my visualization style guide.

Caption

Bar lengths represent flu shot rates for each state, illustrating how many people received flu shots per state. The color gradient represents population size, with orange indicating larger populations and blue for smaller populations.

Treemap Summary

The treemap visualization effectively represents flu shot rates by state through block sizes, making it easy to compare rates at a glance. The color gradient highlights population differences, with larger populations indicated by orange and smaller populations by blue. While the visualization is clear, the initial color scheme was adjusted for better readability due to light sensitivity.

Caption

Treemap shows flu shot rates by state, with block sizes representing flu shot rates and colors representing population size. Orange indicates larger populations, while blue represents smaller populations.
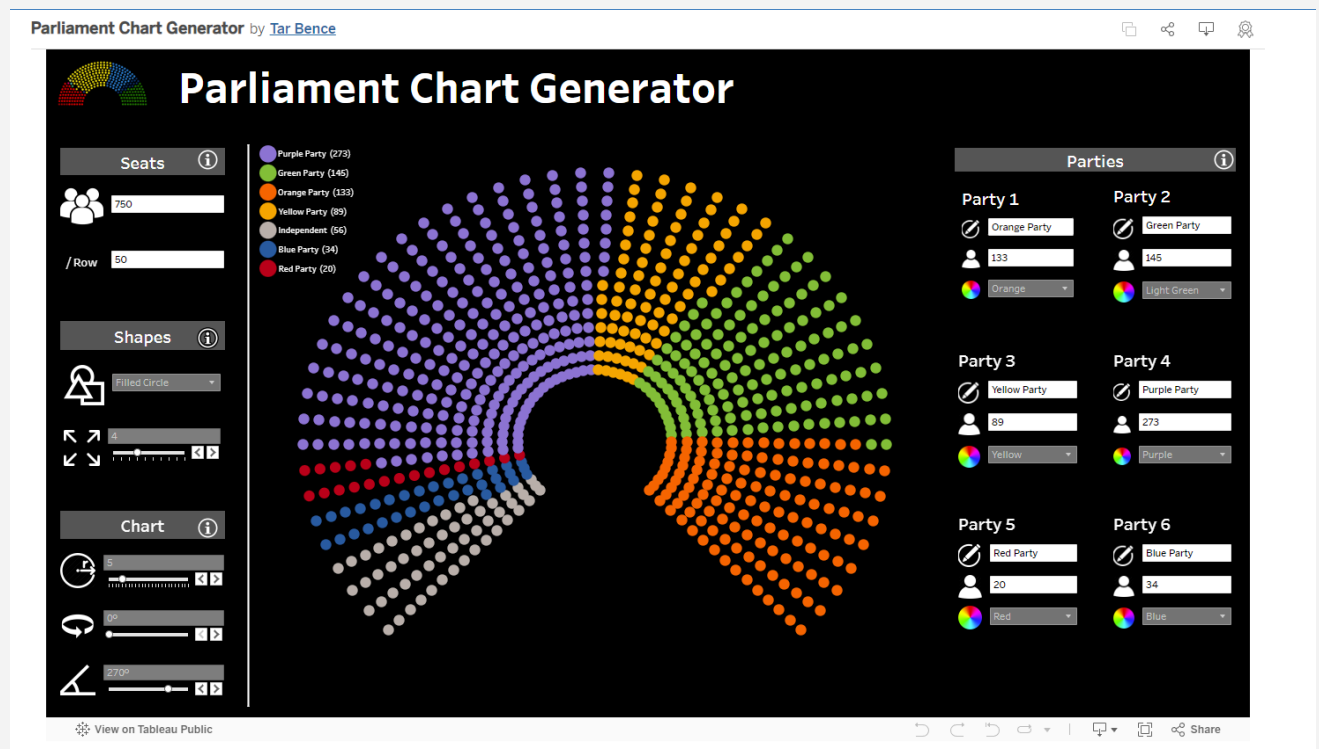
Critique of the Parliament Chart Generator from Tableau Public

I chose a composition chart from the Tableau Public Gallery called the **Parliament Chart Generator** by Tar Bence. This chart uses a parliament-style layout to represent categorical data, which makes it visually unique and engaging. Each segment is clearly defined, making it easy to compare the different categories at a glance.

However, the design could be challenging for some viewers. The layout is unconventional and might require extra explanation to fully understand. Additionally, the color scheme used—purple, yellow, and green—can be difficult for individuals with colorblindness or light sensitivity to distinguish. For example, I found that these colors started to blend together, and I had to focus more to see the separation clearly.

Overall, it's a creative and innovative way to display data, but small adjustments could enhance its accessibility and make it easier for everyone to interpret.

[Parliament Chart Generator by Tar Bence](#)