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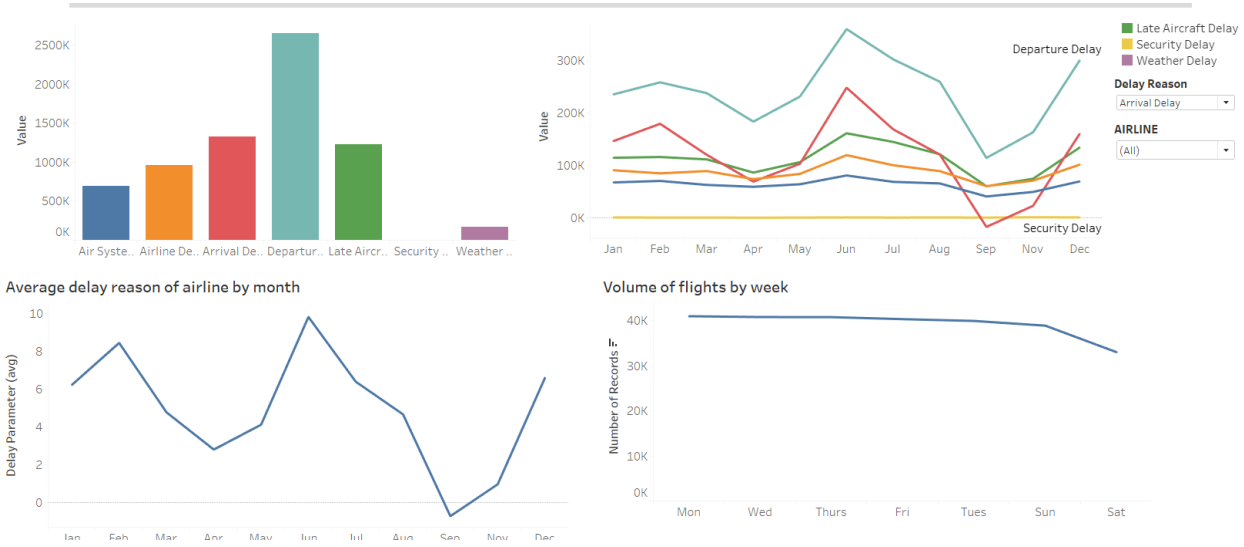
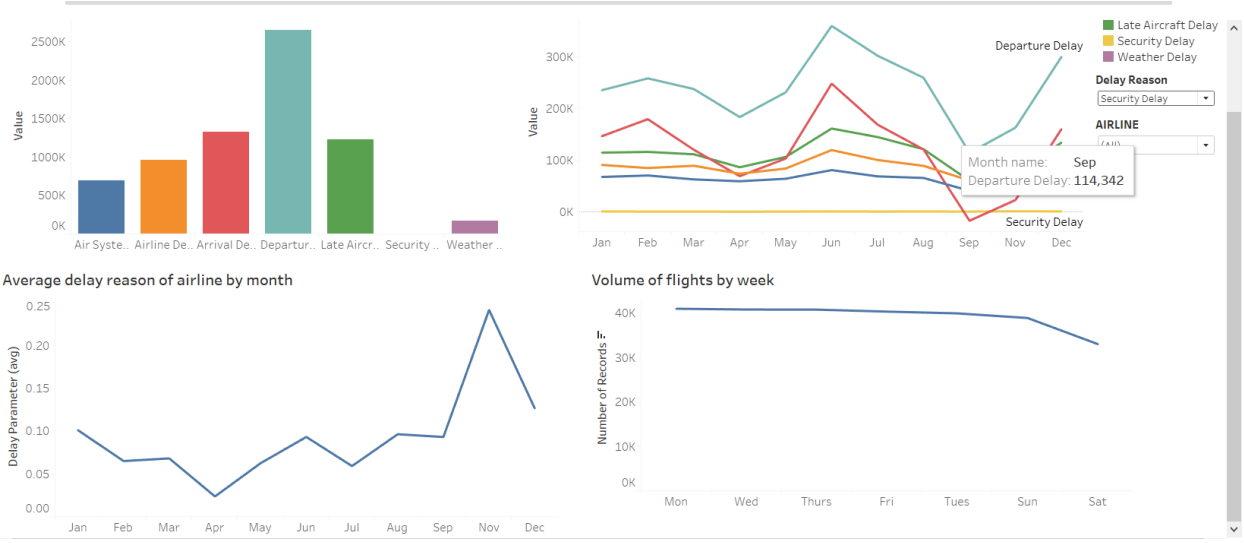
Project: Build Data Dashboards

Flight Delays and Cancellations:

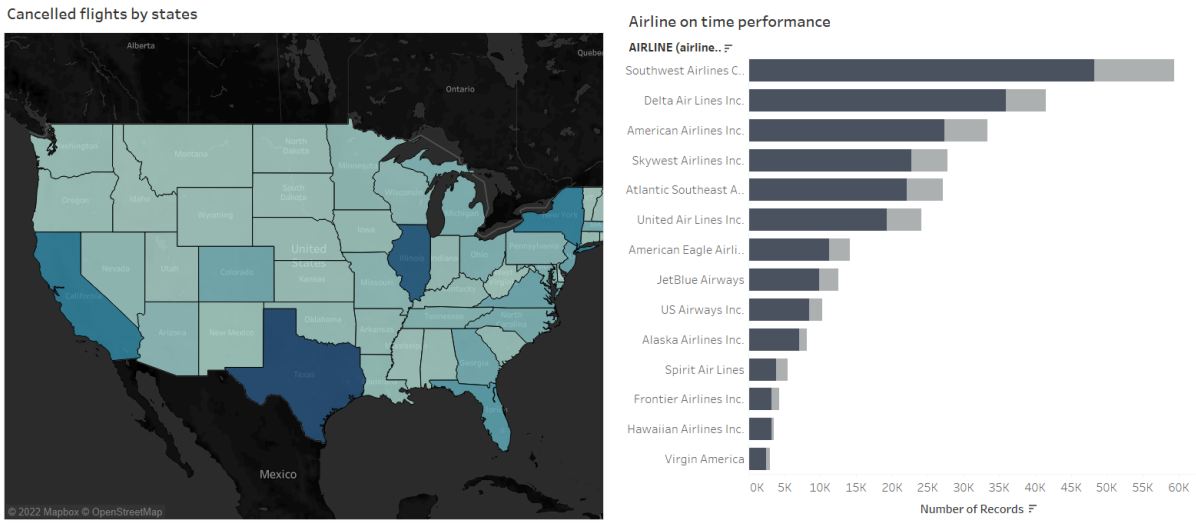
The first graph depicts the many reasons of flight delays. Departure delay is the most common cause, occurring over two million times. The second graph shows volume by flight; all of this is subject to change by the airlines. The third graph illustrates the average airline delay cause by month; we can analyze the pattern of the delay reason over time to determine where it peaks and lowers. The fourth graph depicts the overall number of flights taken during that particular week.



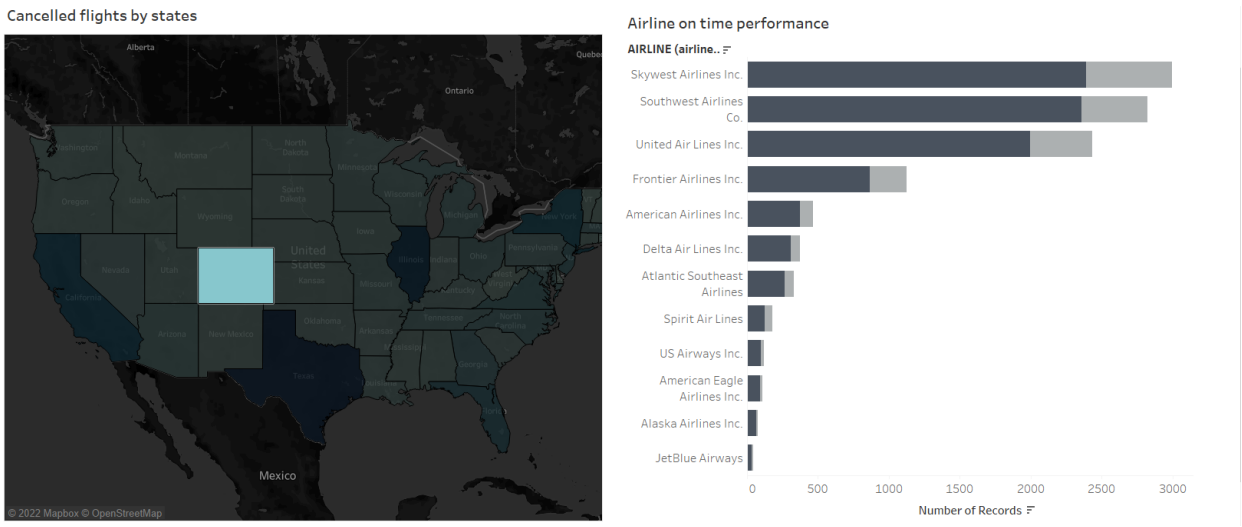
We can observe the average delay cause of airline by month change if we filter by delay reason to see where it peaked and where it was the lowest.



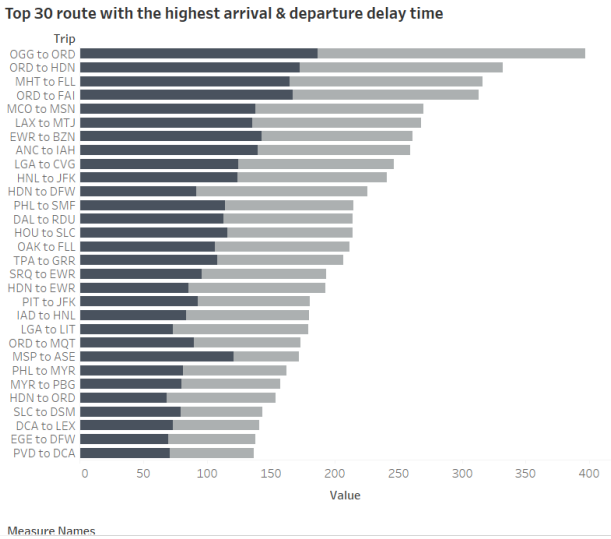
The map depicts the number of cancelled flights per state, with Texas having the highest number. This map can be used to filter airlines based on their on-time performance to see which ones are the best in each state. An airline arrival that is deemed on time is one that happens within 15 minutes of the planned arrival time. The schedule is the basis of the airline's consumer proposition.

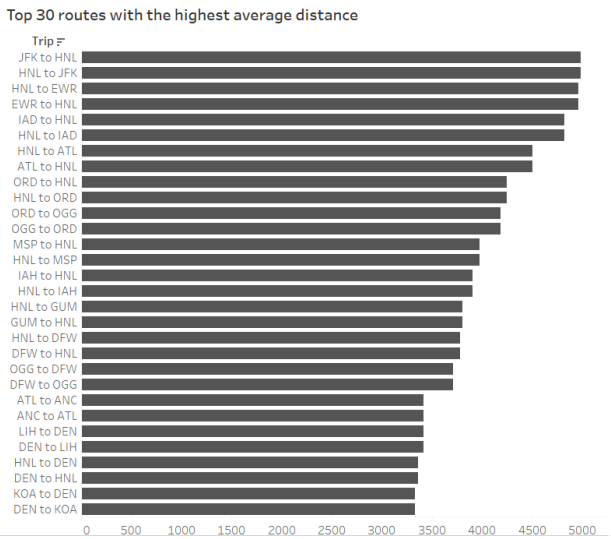


Clicking on **"Colorado"** to reveal the airline on time performance, we can see that Skywest airline inc has the best on time record in that state.

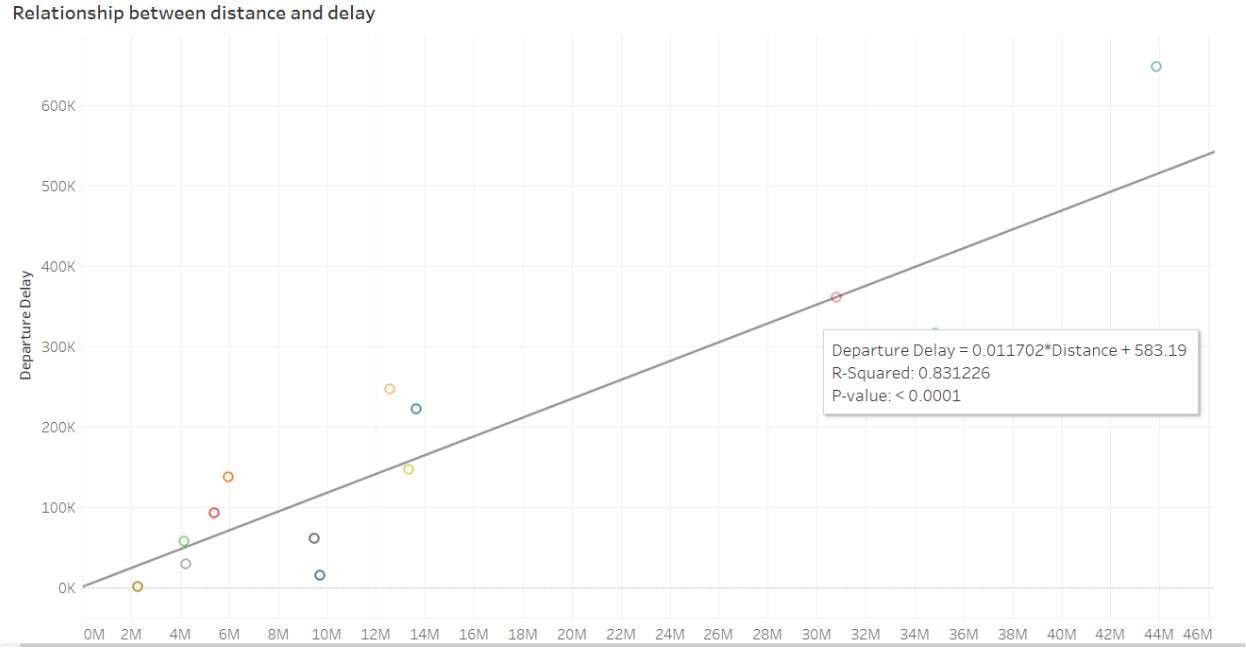


The first graph shows the top 30 routes with the highest arrival and delay periods, while the second graph shows the average distance traveled by each route. The route is created by combining the origin to the destination airports.



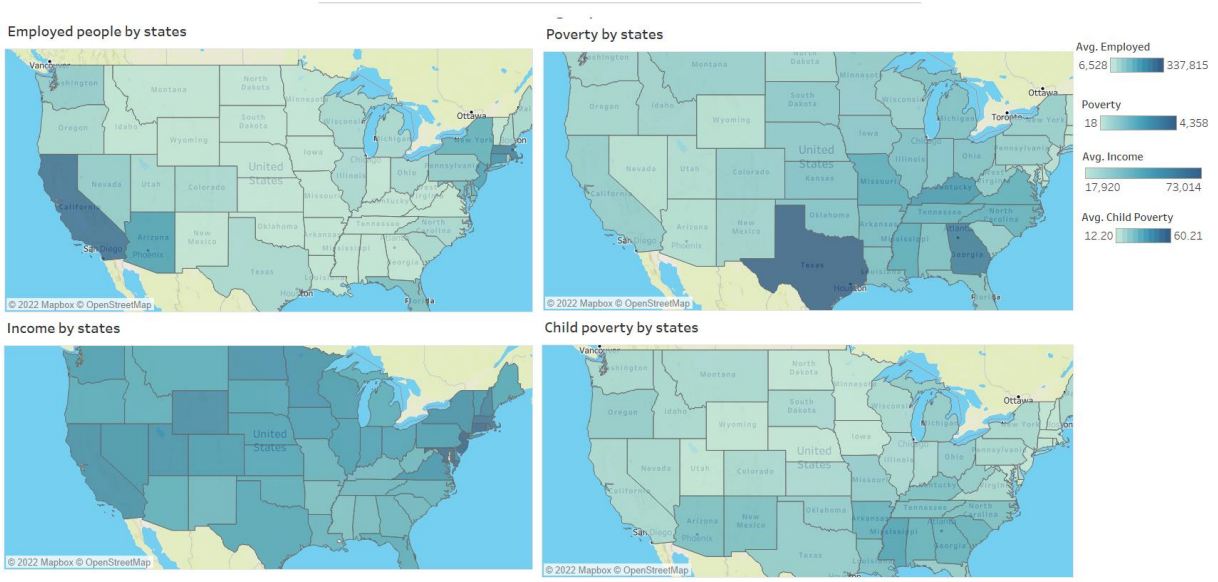


A p-value of 0.05 indicates that there is only a 5% probability that the data from your sample occurred by chance, indicating that there is a significant correlation between x and y. If the P-value is less than the level of significance (0.05). The correlation is statistically significant, we conclude. or, to put it another way, "we infer that there is a linear relationship between x and y at the level." The relationship between cancelled flights and airline delays is strong and linear, as evidenced by r-squared and p-value values less than 0.0001.

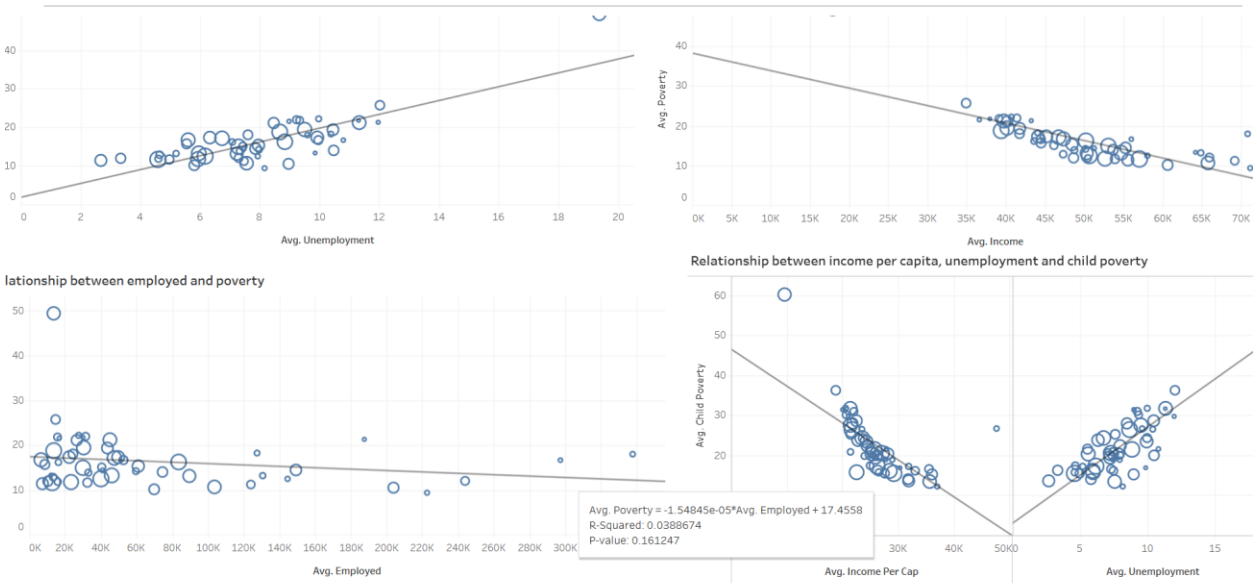


US Census Demographic Data:

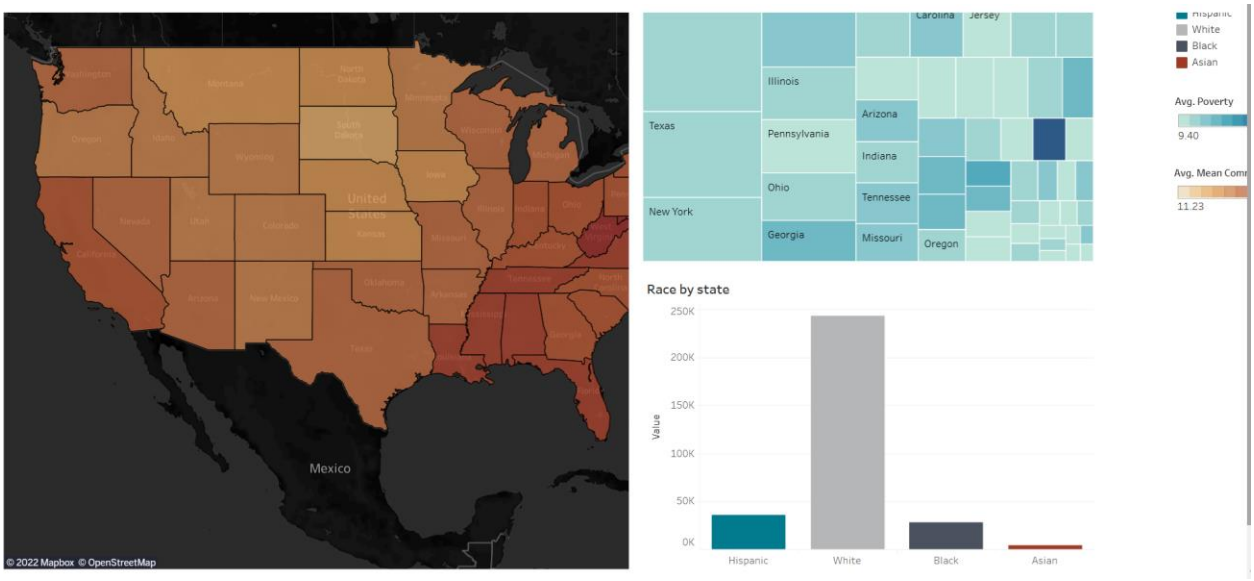
California has the most employed individuals per state, whereas Texas has the greatest average number of poverty per state, New Jersey has the most income per state, and Mississippi has the worst child poverty per state.



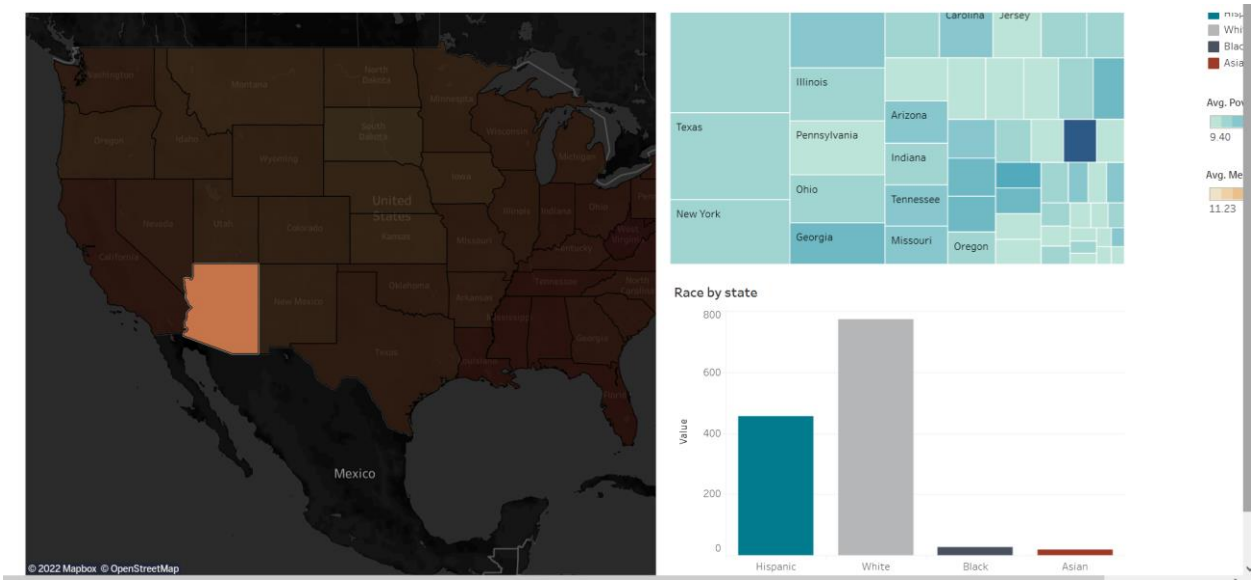
The relationship between unemployment and poverty is strong because the p-value is less than 0.05; the same is true for the relationship between income and poverty and income per capita, unemployment and child poverty; the exception is the relationship between employed and poverty, which is weak because the p-value is greater than 0.05.



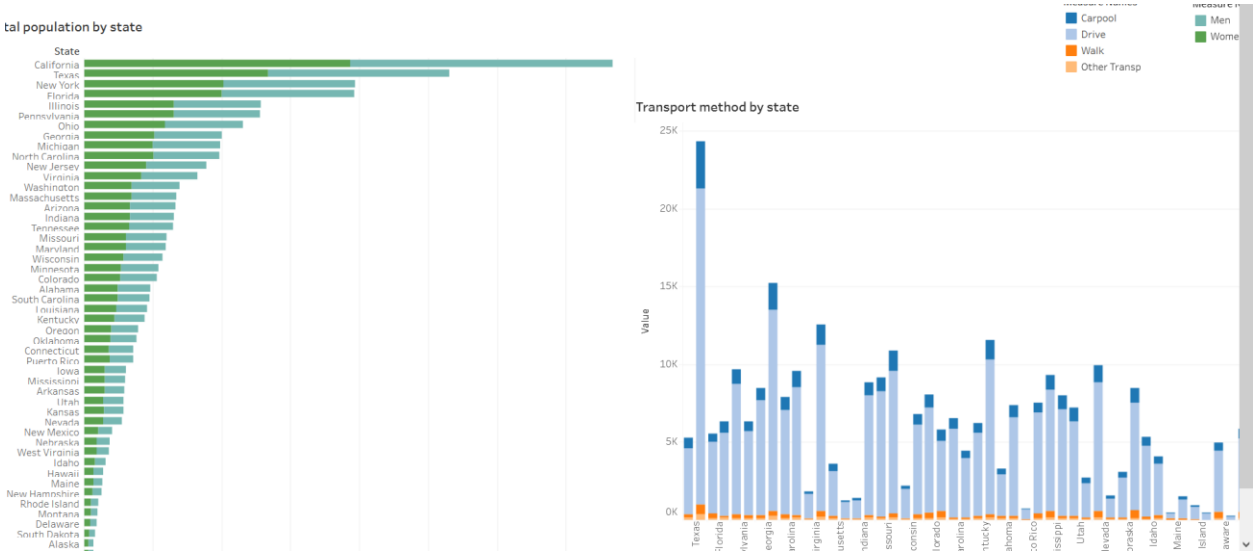
West Virginia has the greatest average mean commute, while Puerto Rico has the highest average poverty. California has the most population, and it is a white denominated country, as seen in graph 3. Clicking on the map will indicate the degree of each possible race in the state.



Clicking on "Arizona" will display the interactivity of the state's different races.



The first graph depicts the number of men and women in each state, with California having the highest number, while the second graph depicts various modes of transportation, with driving being the most common in most states.



YouTube Data US:

Florida has the most views per state; you can check the total likes, category views, and total dislikes for each state by clicking on the map