

Percentage of Transit Use Across the United States

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Dataset:

The data examined for this project will be the US Census Demographic Data Set found on Kaggle. The data contains census data for states in 2015.

Objective:

This presentation seeks to answer which state has the best public transportation? This project defines the best public transportation as lower commute times while operating in a state with high public transportation use.

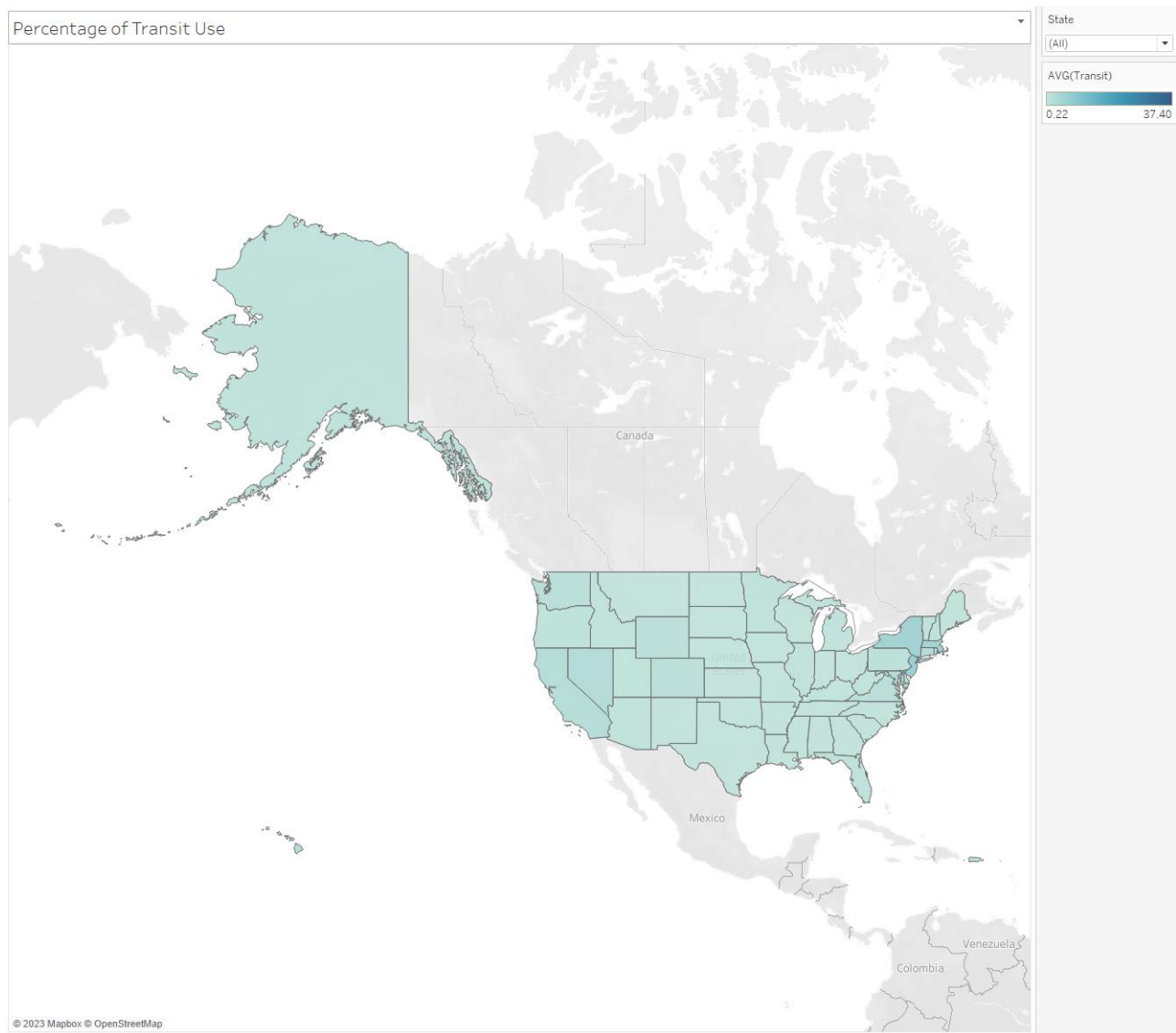


Figure 1.

Figure 1 shows which states use the most public transit. The darker shades represent heavier use while the lighter shades represent less use. A map was selected to bring geographic perspective to the question and the colors chosen were to help differentiate values to viewer. According to the data, New York has by far the highest percentage of public transit use and Delaware has the lowest.

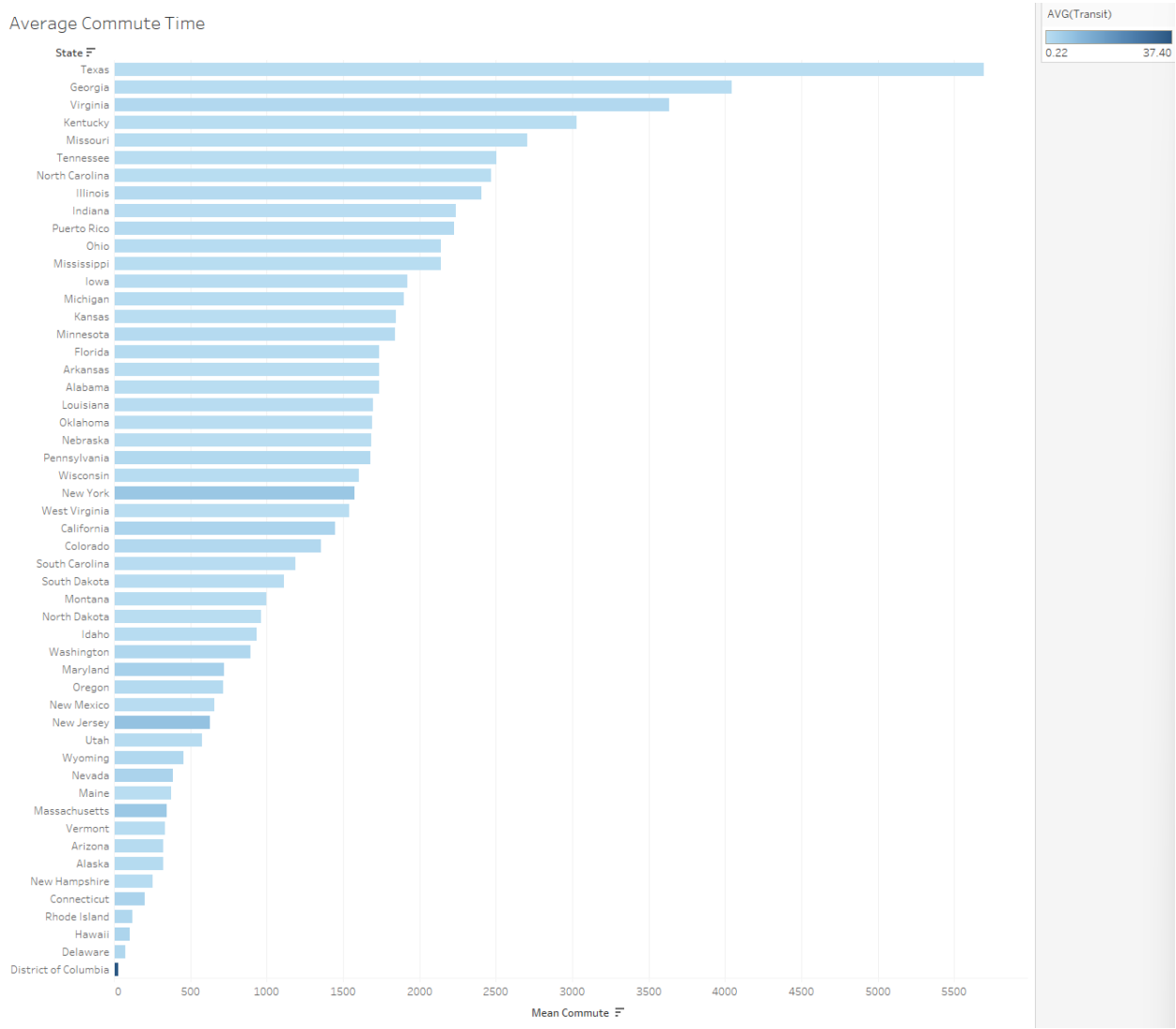


Figure 2

The chart above examines states with longer commute times, which are defined by the length of the bars, and with their percentage of transit use, defined by the shade. A bar chart was used to help visualize the difference in times. An additional color mark using the transit data was chosen to compare transit use with commute. Texas is shown to have the longest commute time while ranking thirteenth in the nation for use. Commute times for New York are less than half that of Texas and show a much higher use as indicated by the dark shade.

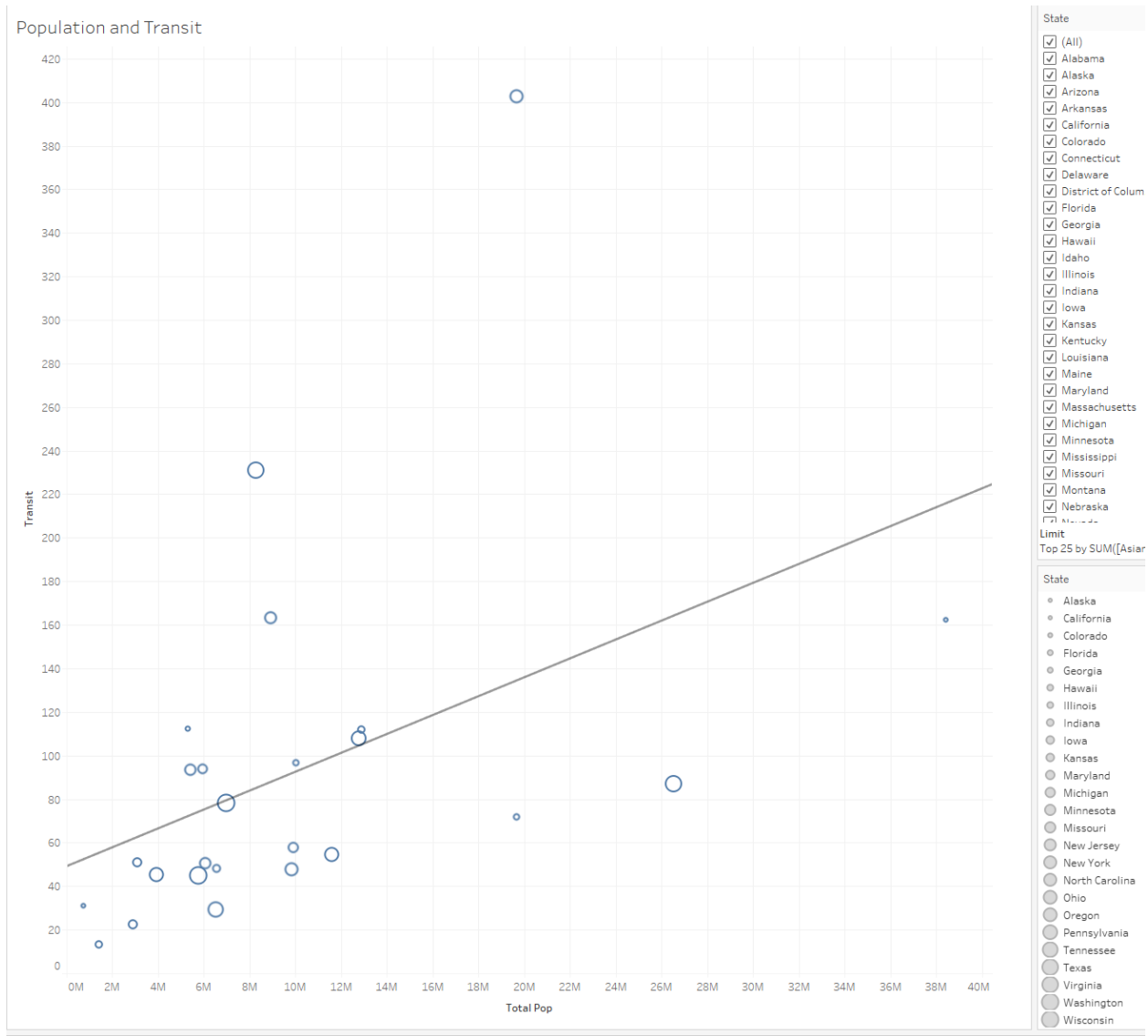


Figure 3.

The Population and Transit Chart examines how population may affect transit use. With an r value of 0.2, the data shows a weak but positive correlation between population size and transit use. A scatterplot was used here to help determine the trends between population size and transit use. New York is shown to have the third largest population and an incredibly large transit use.

Insights

The data shows that New York is the state with the best public transit system in the country. The state has relatively low commute times despite having a large population and heavy use.

Links:

Dashboard:

[Performance Assessment Transportation USA 06-06-2023 | Tableau Public](#)

Map:

[Performance Assessment Percentage of Transit Use 06-06-2023 | Tableau Public](#)

Bar Chart:

[Performance Assessment Average Commute Time 06-06-2023 | Tableau Public](#)

Scatter Chart:

https://public.tableau.com/app/profile/cameron7895/viz/PerformanceAssessment_TransportationUSA_PopulationandTransit_06-06-2023/PopulationandTransit?publish=yes

Bar Chart Insight:

https://public.tableau.com/app/profile/cameron7895/viz/PerformanceAssessment_Story2_06-06-2023/Story2?publish=yes

Population By State Insight:

https://public.tableau.com/app/profile/cameron7895/viz/PerformanceAssessment_PopulationByState_06-06-2023/PopulationbyState?publish=yes

Population and Transportation Insight:

https://public.tableau.com/app/profile/cameron7895/viz/PerformanceAssessment_PopulationandTransportation_06-06-2023/PopulationandTransitInsight?publish=yes

US Census Data:

<https://www.kaggle.com/muonneutrino/us-census-demographic-data/data>