

**Insight 1:**

**Link:** <https://public.tableau.com/authoring/TransitvsState/Sheet1#1>

**Summary:** This bar chart shows the percentage of each county population that uses public transportation. The three counties with the largest percentage of the population using public transportation are Bronx (59.70), New York (59.20), and Queens (52.30).

**Design:** I used a bar chart to compare a quantitative variable and a categorical variable. It allowed me to identify the percentage of a county that uses public transportation, and to sort transportation in descending order by county. The Tooltip allows for a county view of the five modes of transportation for that county. Grey was used on the bar chart to match the color of public transportation on the Tooltip.

**Resources:** N/A

**Insight 2:**

**Link:** <https://public.tableau.com/authoring/TransitvsState/Dashboard1#1>

**Summary:** The most interesting insight from this dashboard are the outliers. Puerto Rico has the smallest percentage of the population in unpaid family work (.153), and it has the highest percentage living in poverty (49.37). Montana has the highest percentage in unpaid family work (1.402), and it has a moderate percentage living in poverty (15.72), compared with other states.

**Design:** I used a scatterplot in order to compare 2 quantitative variables and a categorical variable. It allows for a clear view of where each state compares to other states in terms of Unpaid Family Work and Percentage Under Poverty Level. The map shows the 2 quantitative variables in terms of geography. The larger the circle is in a state, the higher the percentage of unpaid family work. The circle is darker when there is a higher percentage living in poverty.

**Resources:** N/A

**Insight 3:**

**Link:** <https://public.tableau.com/authoring/TransitvsState/Sheet3#1>

**Summary:** In this side-by-side bar chart, all states have the largest percentage of the population that commutes by driving, but visually there are some states that stand out as having an unusually large percentage of the population commuting in other ways.

Alaska has 23.88% walking, 46.82% driving, and 12.13% carpooling. District of Columbia has 33.70% driving, 37.40% taking public transit, and 12.90% walking. Hawaii also has a slightly different distribution than most states, with 64.36% driving, 11.70% carpooling, and 10.86% walking.

**Design:** The side-by-side bar chart allows me to compare 3 categorical variables and a quantitative variable. I am able to compare the percentage of the population using each method of transportation, while lining up each state side-by-side.

**Resources:** N/A