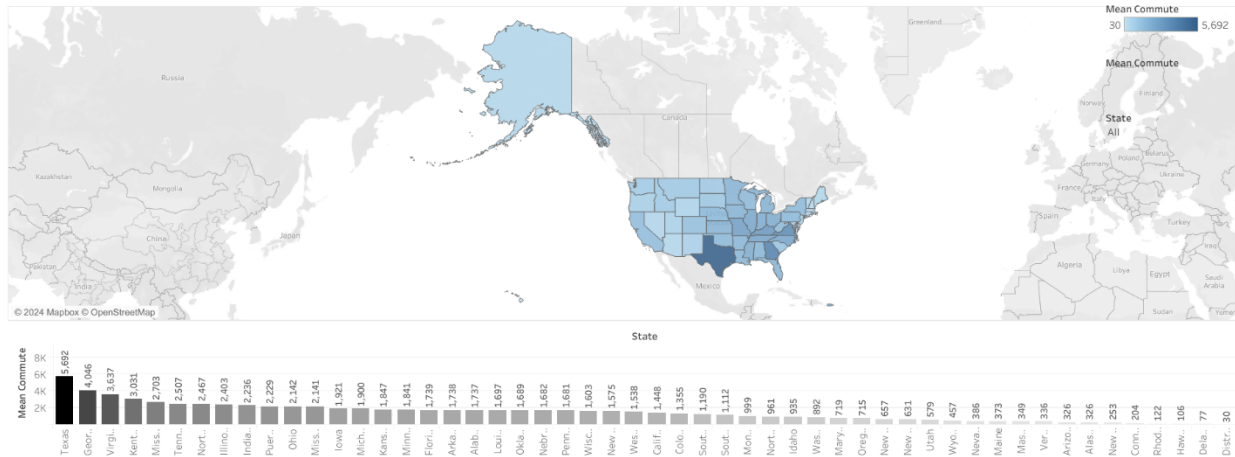


## 1. Which states have the best transportation?

Which states have the best transportation?



### Link:

Explore the dashboard for more details using the following link: [Dashboard 1](#)

### Summary:

The visualization highlights the states with the longest average commute times. For instance, **Texas** State has the highest mean commute time of **5,692** minutes, while **Georgia** State follows with **4,046** minutes. Conversely, states with shorter commute times, such as the **District of Columbia** State with an average commute time of **29.70** minutes, may indicate better transportation systems.

### Design:

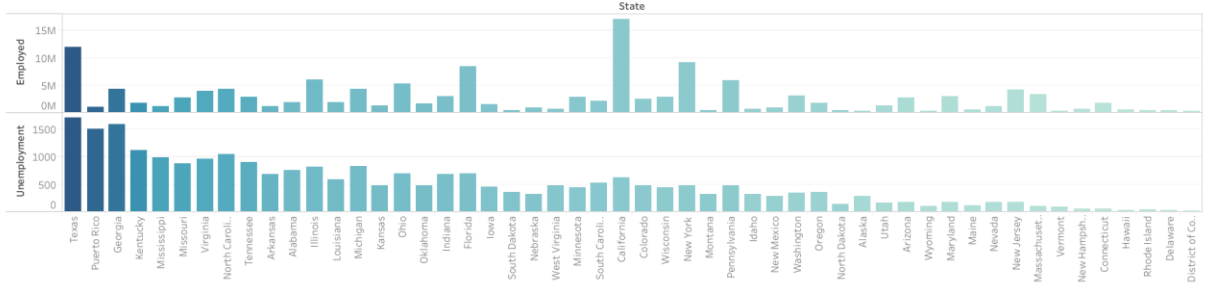
The dashboard integrates two charts with Interactive tooltips and filters for States and Commute Times:

- A **Bar Chart** was used to rank the states, based on their mean commute times.
- A **Heat Map** was included to show the geographic distribution of states with higher commute times, using a gradient color scale where darker shades represent longer commutes.
- **Interactive Tooltips** show exact values for mean commute times and a horizontal Bar Chart for Transportation Modes, enhancing user engagement and understanding.

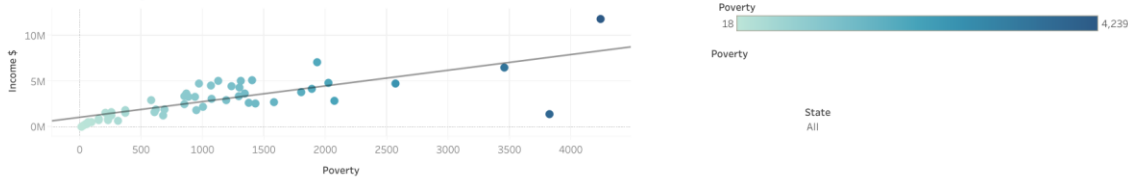
**Resources:** [US Census Demographic Data 2015](#)

## 2. How does income and poverty look across America?

Employed vs Unemployed with Poverty Level Across States



Income vs. Poverty Across US States



### Link:

Explore the dashboard for more details using the following link: [Dashboard 2](#)

### Summary:

The **Scatter Plot** reveals a positive relationship between poverty rates and median household incomes across states. For instance, **Texas** stands out as the state with both the highest median income **11,826,682 \$** and the highest poverty rate **4239**. Another state, **Georgia**, shows a high poverty rate **3,455** and a median income of **6,472,081 \$**. This trend suggests complex economic disparities where some states exhibit high incomes yet struggle with poverty.

A **Bar Chart** shows **California** State as first in the number of employees, with more than **17 million**, and a poverty rate in the middle range of **938**. **Texas** State follows with more than **12 million** employees, but it also has the highest poverty rate of **4239**. **Texas** State ranks first in the number of unemployed with **1712**.

### Design:

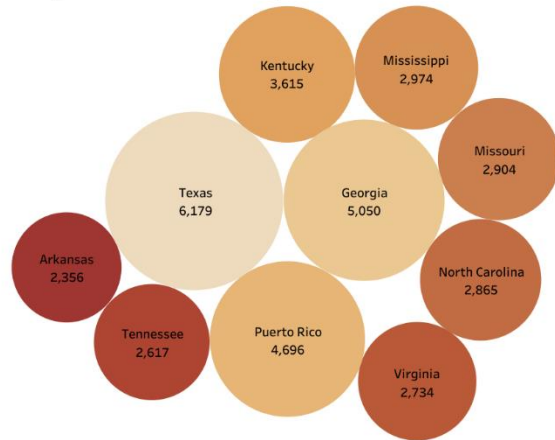
The dashboard uses two charts to present the data effectively:

- A **Scatter Plot** visualizes the relationship between income and poverty, highlighting how poverty correlates with income levels. A positive trend line was added to emphasize the relationship between the variables.
- A **Bar Chart** compare the number of Employed vs. Unemployed individuals across states, using color gradients to indicate poverty levels.
- **Color Coding**: Color-coded by Poverty rates, with darker colors signifying higher poverty levels.
- **Tooltips**: Detailed information for each state, including poverty rate, median income, and the number of employed and unemployed is available for further exploration.

**Resources:** [US Census Demographic Data 2015](#)

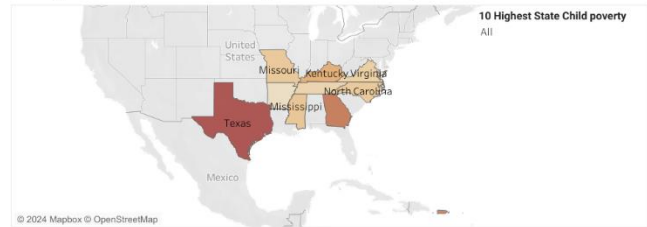
### 3. Which 10 states have the highest percentage of children living below the poverty line?

10 Highest States of Child Poverty

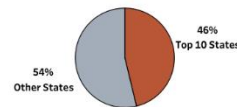


States  
Top 10 States

Map of U.S. States with the Highest Child Poverty



Child Poverty: Top 10 States vs. All Other States



#### Link:

Explore the dashboard for more details using the following link: [Dashboard 3](#)

#### Summary:

The analysis identifies the top 10 states with the highest numbers of children in poverty. **Texas** State ranks highest with **6,179** children, followed by **Georgia** State with **5,050**. The **Heat Map** shows a clear concentration of these states in the southeastern region of the U.S. The **Pie Chart** reveals that these 10 states account for **46%** of children in poverty nationwide, while the remaining **54%** is distributed across other states. Nearly half of the total number of children living in poverty is represented by these 10 states.

#### Design:

The dashboard integrates three charts with Interactive tooltips and filters:

- **A Bubble Chart** compares and display the top 10 states, with bubble sizes corresponding to the number of children in poverty. The chart includes clear labeling and tooltips for interactivity.
- **A Heat Map** illustrates the geographic distribution of these 10 states, showing their concentration in the southeastern U.S. using a gradient color scale where darker shades represent higher child poverty levels.
- **A Pie Chart** provides a proportional view, comparing the number of children in the top 10 states to the rest of the U.S.

Resources: [US Census Demographic Data 2015](#)