

Udacity - Build a Data Visualization project

Dataset - US Census Demographic Data

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

Visualization 1 - Mean Commute Time vs % of Workforce Who Works from Home by State in 2015

<https://public.tableau.com/app/profile/kyle.nelsen/viz/2015USCensusData-MeanCommuteTimevsofWorkforceWhoWorksfromHomebyState/MeanCommuteTimevsofWorkforceWhoWorksfromHomebyStatein2015?publish=yes>

Summary: This scatter plot shows the mean commute time versus the percentage of the state's workforce who works from home. There is a trend that the higher the percentage that works from home, the shorter the commute time. South Dakota has the shortest commute time and the most people working from home. Puerto Rico has the longest commute time and the least people working from home.

Design: I added the “Minutes” unit to the y-axis label to better understand the values. I added the state and values as tooltips. I added a filter to add or subtract certain states. I made the points a little bigger and purple to view easier.

Resources: N/A

Visualization 2 - Job Types by State in 2015

<https://public.tableau.com/app/profile/kyle.nelsen/viz/2015USCensusData-JobTypesbyState/JobTypesbyStatein2015?publish=yes>

Summary: This stacked bar chart shows the job type breakdown of each state. Indiana has the highest percentage of production jobs. Hawaii has the highest percentage of service jobs. Nevada has the highest percentage of construction jobs. Puerto Rico has the highest percentage of office jobs. The District of Columbia has the highest percentage of professional jobs.

Design: I added the state and value as tooltips. I added a chart legend. I added a filter to add or subtract certain states. I sorted the chart from most jobs to least jobs. I used a color blind palette.

Resources: N/A

Visualization 3 - Population and White Population Percentage by State in 2015

<https://public.tableau.com/app/profile/kyle.nelsen/viz/2015USCensusData-DashboardofPopulationandWhitePopulationbyStatein2015/Dashboard?publish=yes>

Summary: These maps show the population and white population percentage for each state in 2015. Most of the populous states are on the coast and the eastern states tend to have higher populations. The northern states tend to have a higher white population.

Design: For the population map I used a red and gold color pattern because it's easier to see the shading change than other palletes. I turned the opacity up so you can't see the premade state names and added the state names as a label. The premade names that come with the map were too difficult to see. I added the state name and the population value as tooltips. For the white population map, I used the same opacity and label trick as the other map. I used a blue-teal palette to make it easier to see. I also added the state and value as a tooltip.

Resources: N/A