

Project 4 – Visual Description Tableau

Dashboard link: <https://public.tableau.com/app/profile/hunter3950/viz/UdacityProject4-IncomePerGenderByStates/USCensusData?publish=yes>

Questions1: Which states have the highest population across America?

Link: <https://public.tableau.com/app/profile/hunter3950/viz/UdacityProject4-CitizensPerState/CitizensPerState>

Type of visual: Symbol maps

Reason for: A Symbol map was chosen because the USA has fifty states and to visual all the data a symbol map easily displays with states have the largest populations. The larger the population the bigger the image for that state. The data shows California, New York, Florida, and Texas are among the highest.

With this data I can compare states with similar population sizes and normalize the demographics for each state better.

Questions 2: Which states have the highest unemployment?

Link: <https://public.tableau.com/app/profile/hunter3950/viz/UdacityProject4-UnemploymentPerState/UnemploymentinEachState>

Type of visual: Symbol maps

Reason for: A Symbol map was chosen because the USA has fifty states and to visual all the data through a bar graph etc. would be difficult for the viewer to understand. The Symbol map shows which states have the highest unemployment by density. Texas and Puerto Rico are easily identified. Also, the data shows the difference between west coast and east coast states. The west coast has lower unemployment than the east. A lot of the highest unemployment rates are in the south part of America.

Question 3: Ethnicity population for the top 4 highest population states

Link: <https://public.tableau.com/app/profile/hunter3950/viz/UdacityProject4-IncomePerGenderByStates/EthnicityPerState?publish=yes>

Visual type: Text Table

Reason for: Viewers can see the different in population amounts per state for each ethnicity. The text table show the top 4 states with the highest population and how their demographics compare for ethnicity.

The data shows many comparisons for each state like how Texas has over 8,500 Hispanic residents whereas New York has less than 500 Hispanic residents. We can use this data to establish a correlation to further demographic question surrounding employment and education and put it into context for each state's population ethnicity.

Question 4: What is the unemployment by Ethnicity in Texas?

Link: https://public.tableau.com/app/profile/hunter3950/viz/UdacityProject4_16779859031920/TexasUnemploymentByEthnicity

Type of Visual: Horizontal bar graph

Reason for: Comparing categories a bar graph visualizes the data for the viewer to easily understand. The data shows within Texas Caucasians have the highest and Hispanic are second with unemployment whereas pacific, native, and asian ethnicities have the lowest.

The data could be correlated with the total population amounts for each ethnicity within Texas to understand the unemployment rate more accurately.

Question 5: How does income compare by gender for each state?

Link: <https://public.tableau.com/app/profile/hunter3950/viz/UdacityProject4-IncomePerGenderByStates/IncomeMenVsWomenPerStates?publish=yes>

Type of Visual: Horizontal bar graph

Reason for: Comparing income per states by genders can be done with a bar graph as there are only two genders to compare. Easily identifying which gender makes more average income per state. California and District of Columbia are the two highest incomes for both genders around 300K+. According to the data almost all states females make more average income than males. South and North Dakota are the only states where males earn more on average.

Question 6: States with the highest income

Link: <https://public.tableau.com/app/profile/hunter3950/viz/UdacityProject4-IncomePerState/HighestIncomeperStates>

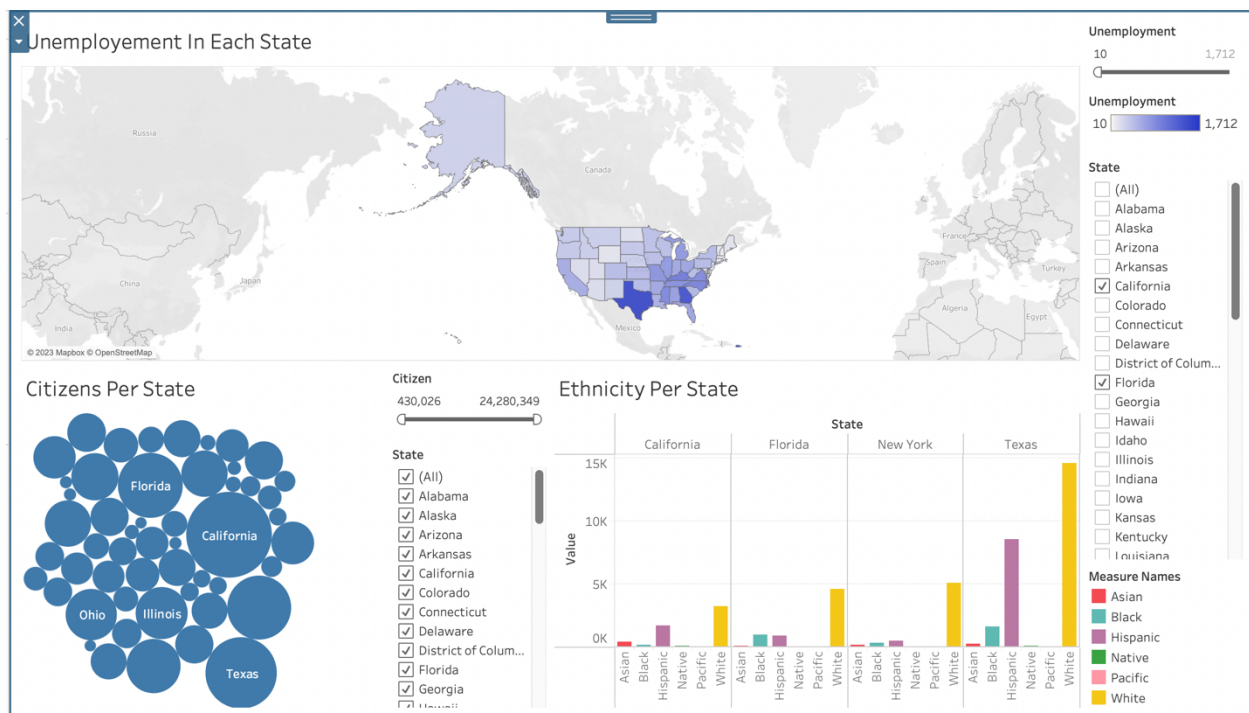
Types of Visual: Treemaps

Reason for: The Treemap shows the highest earning states by density and size and ranks them in order from highest to lowest. Texas is easily identified as the states with the highest income. The district of Columbia has the lowest income.

This gives the viewer context of which states are generating the highest income across America. This data can be further used to show correlation between employment rates, job types, poverty etc.

Visuals

Dashboard



Question 1

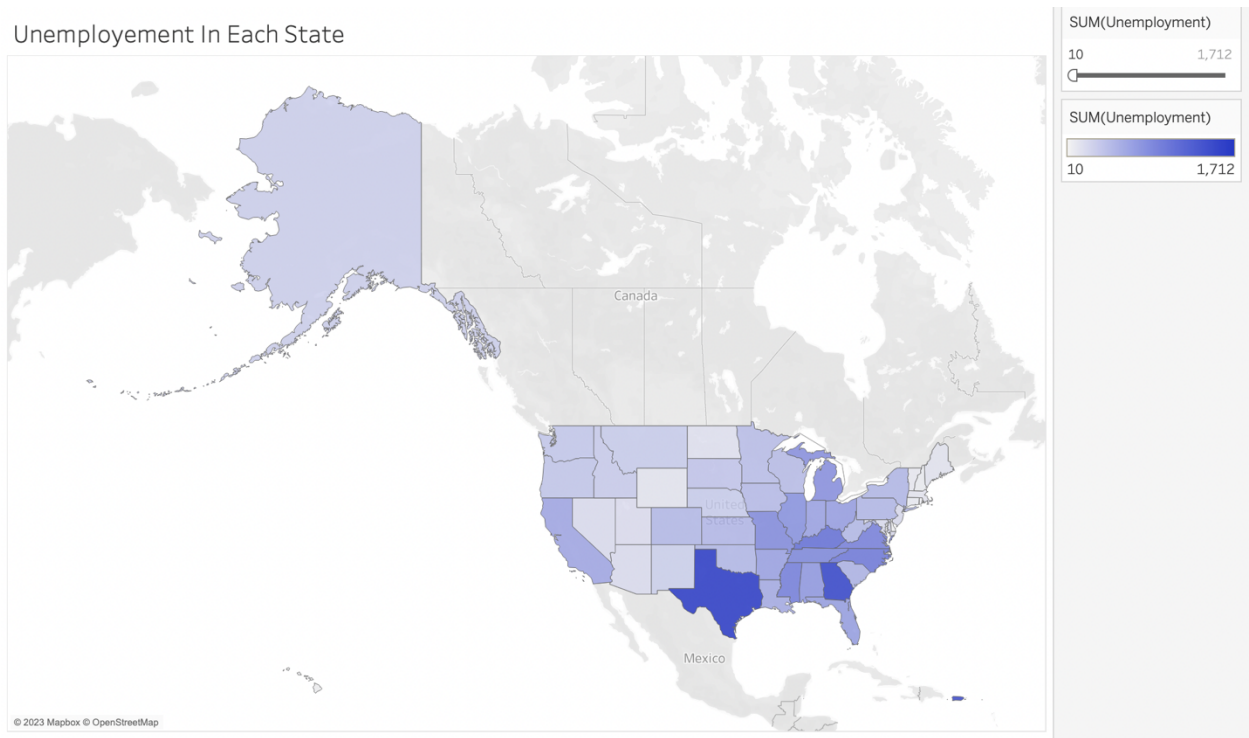
Which States in the USA have the largest Population?

Population Per State



Question 2 Which states have the highest unemployment?

Unemployment In Each State



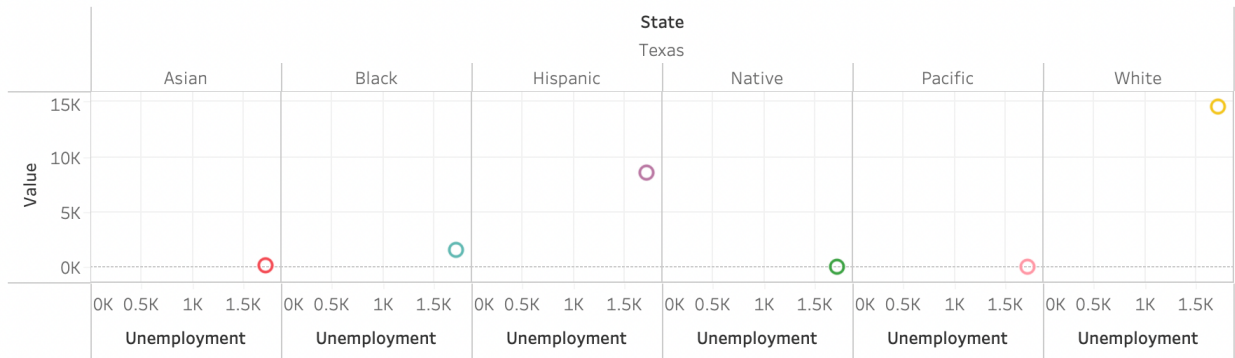
Question 3: Ethnicity population for the top 4 highest population states

Ethnicity Per Top 4 Highest State PopulationsEthnicity Per State

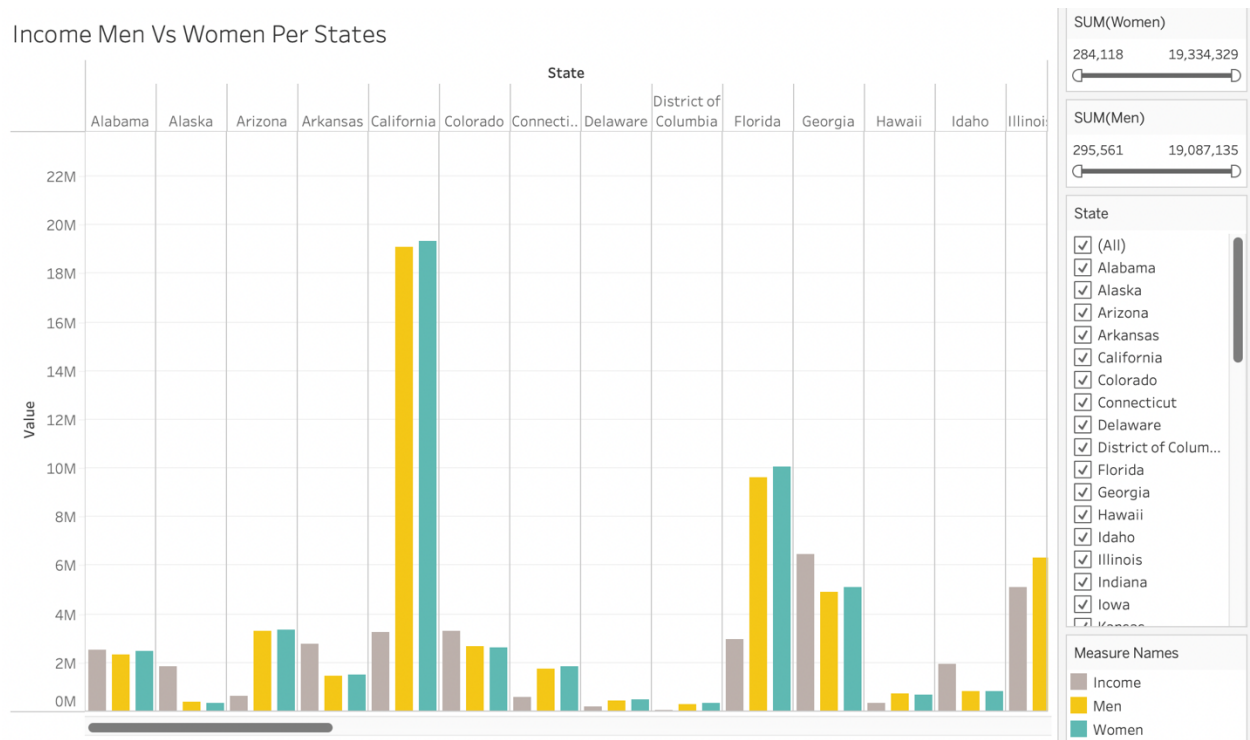
State	Asian	Black	Hispanic	Native	Pacific	White
California	400	173	1,712	92	20	3,222
Florida	101	956	888	25	3	4,601
New York	168	358	458	24	1	5,071
Texas	236	1,589	8,574	97	14	14,574

Question 4: What is the unemployment by Ethnicity in Texas?

Texas Unemployment By Ethnicity

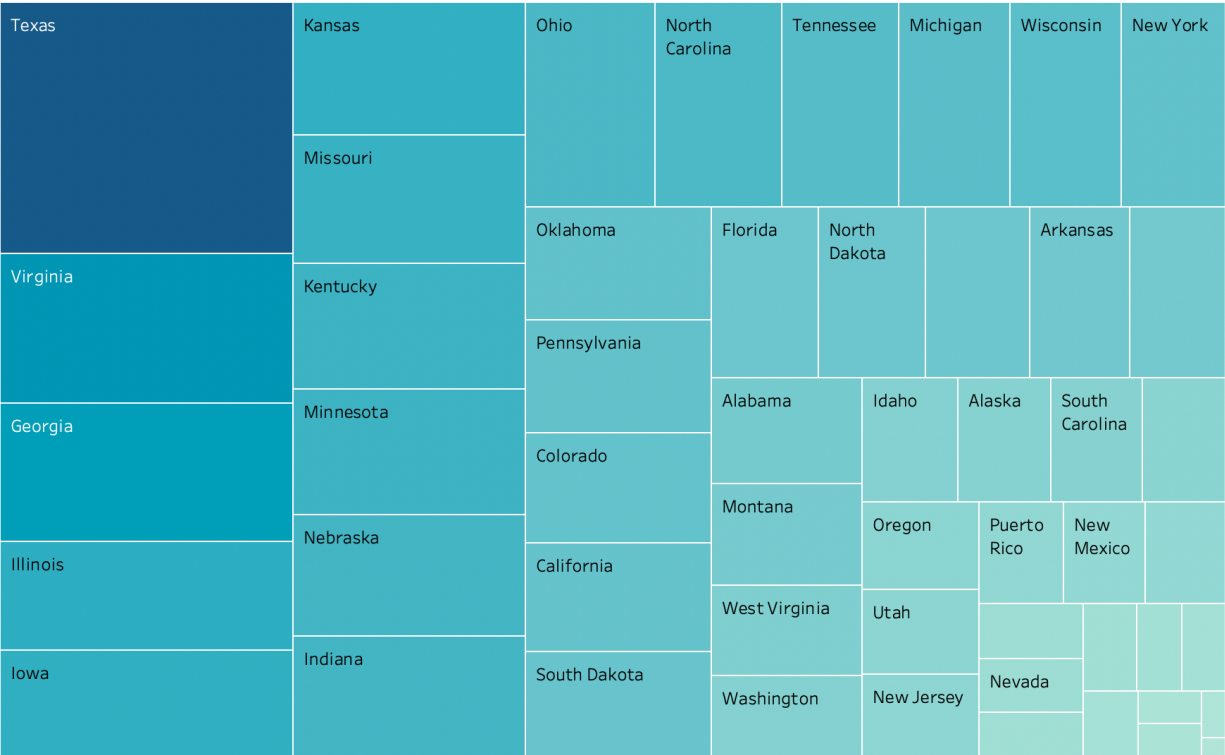


Question 5: How does income compare by gender for each state?



Question 6: States with the highest incomes

Highest Income per States



References:

US Census Data Kaggle dataset: <https://www.kaggle.com/muonneutrino/us-census-demographic-data/data>