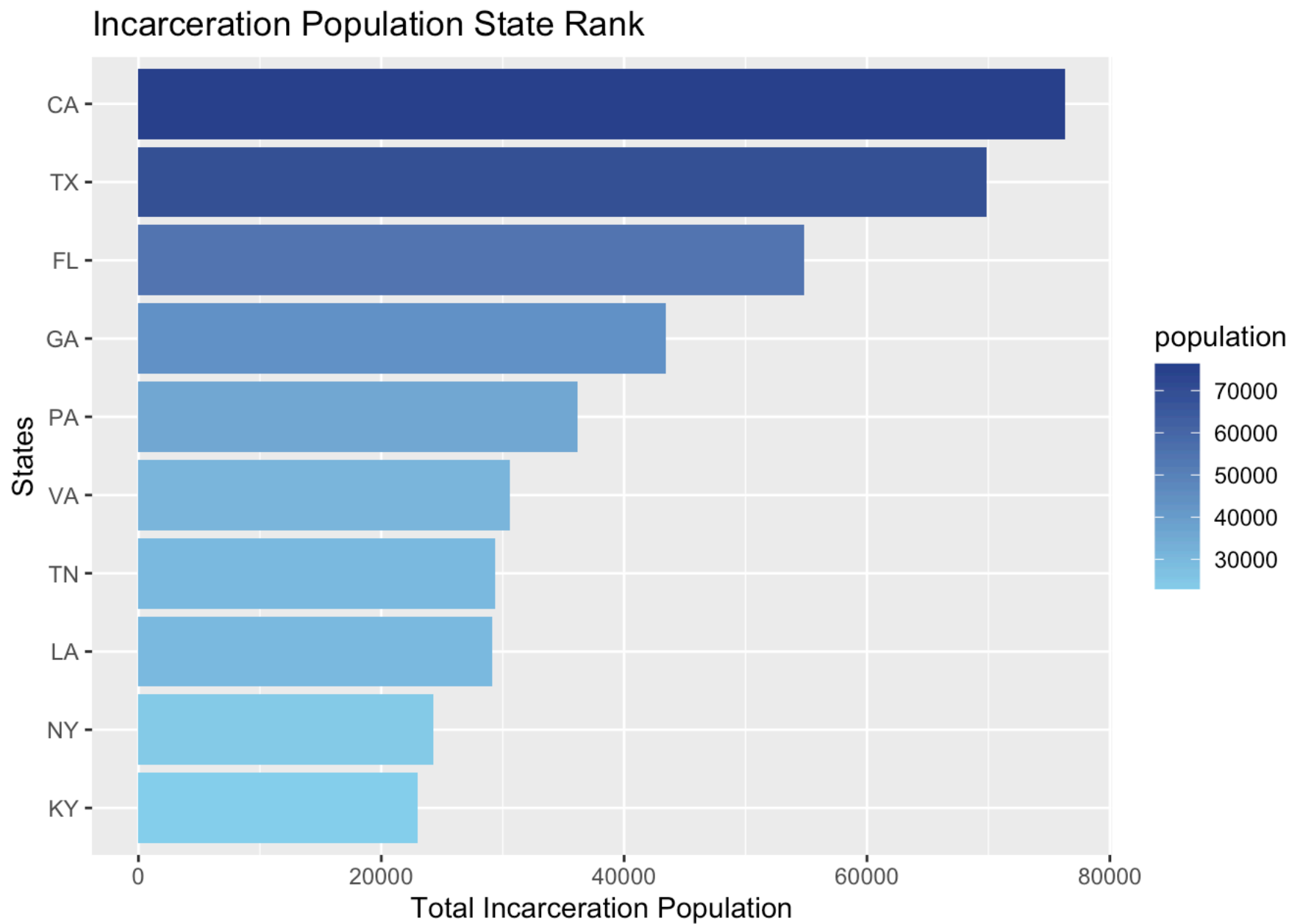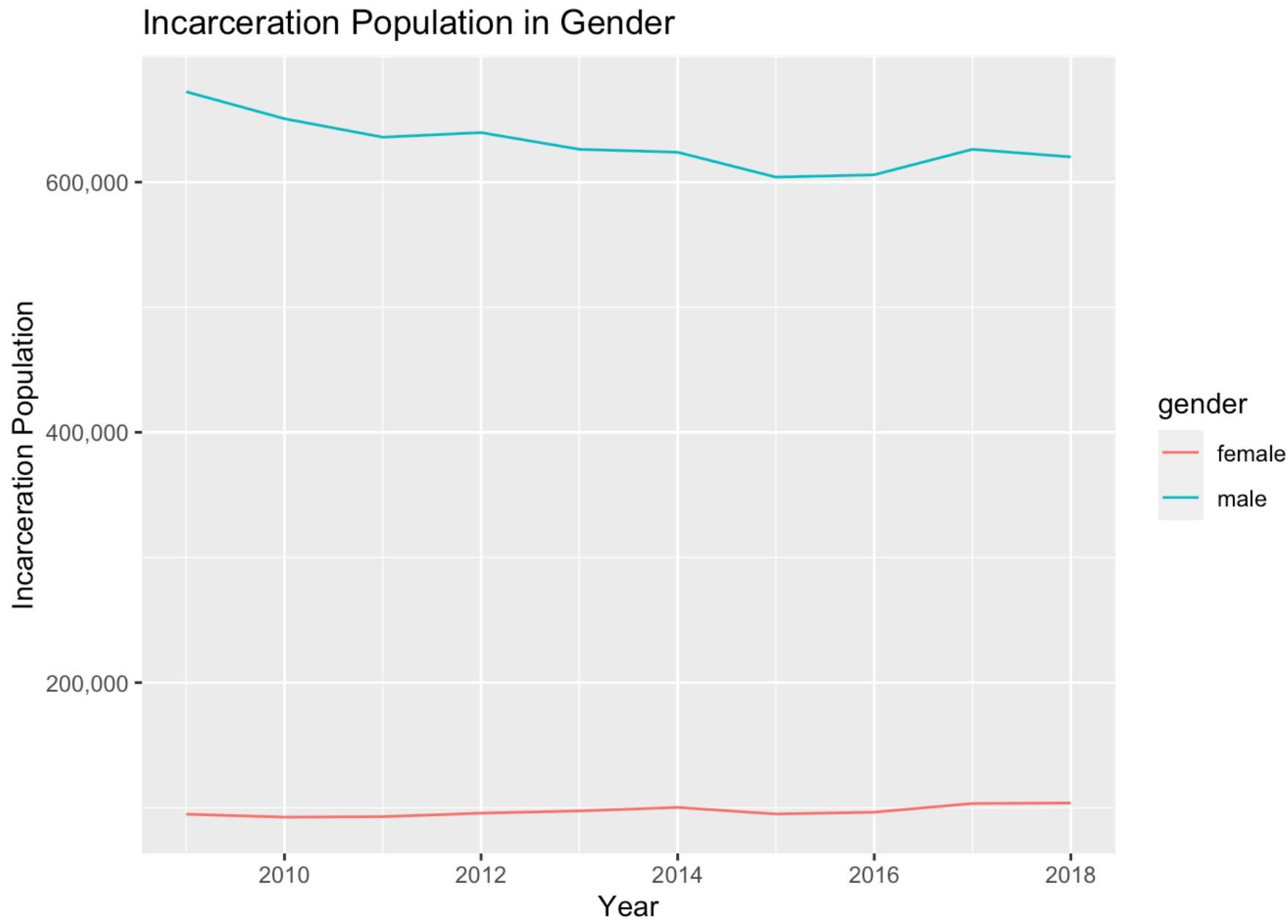# Data Visualization On U.S. Incareration

As a foreigner, I am not very familiar with prison system in the US. However, as people stated, there might be many inequalities in the incarceration data sets. Therefore, I analyzed the data set and chose several variables that seems to be interesting. First, I decided to discover the relationship between states on jail population. Then, I chose gender as my second topic to depict the difference in jail population for different gender. Finally, I chose the jail population for each state as a whole to generate a US map.
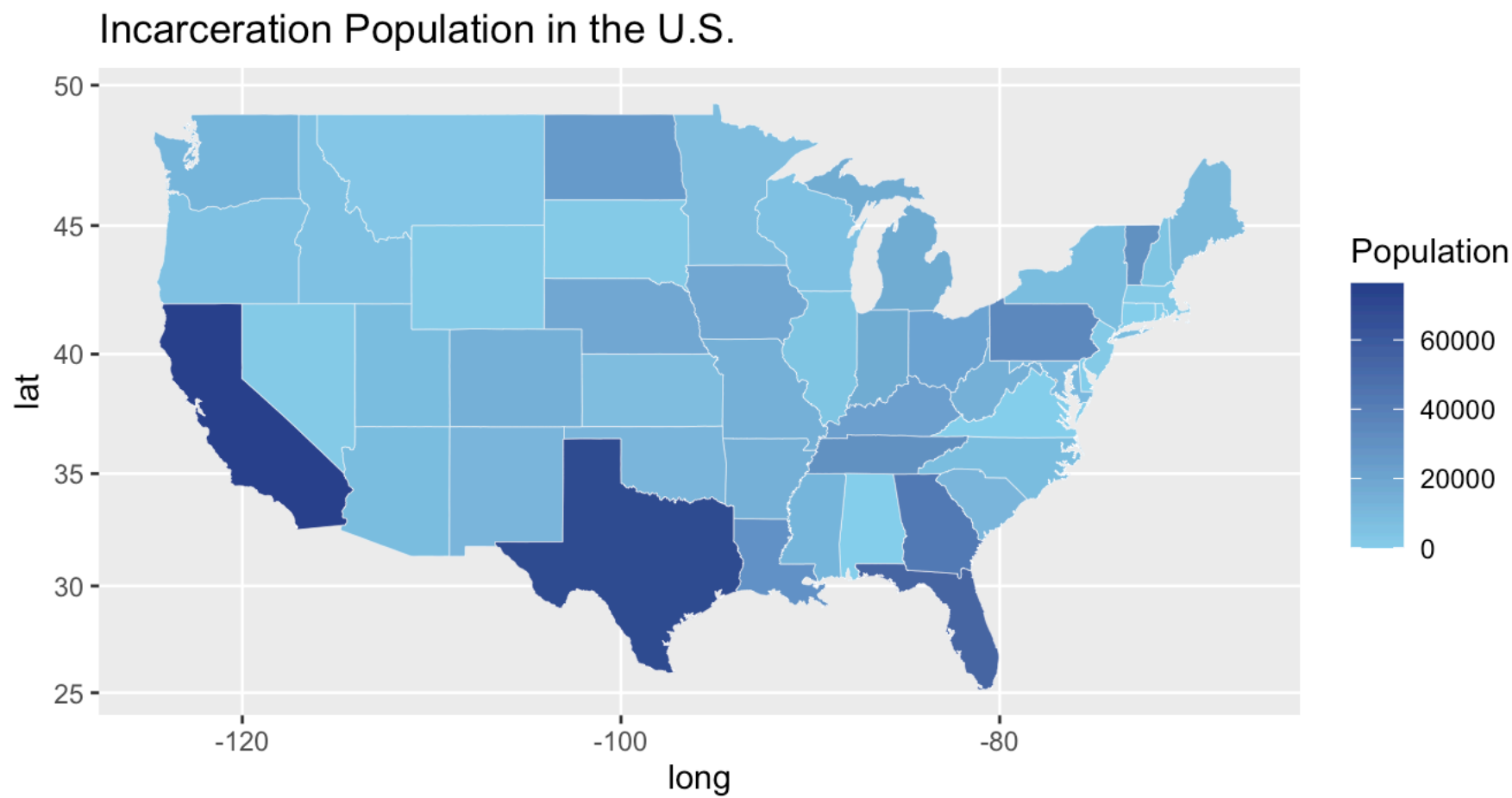
In this dataset, the most recent total jail population in the US for male is 620148. The most recent total jail population for female is 103838. As we can see, the population for male is much larger than female. I wonder what factors have caused this discrepancy between the jail population of theses two genders. Racial-wise, the most recent total jail population for black people is 247547. The most recent total jail population for native Americans is 10313. The most recent total jail population for latinos is 113387. And the most recent total jail population for white people is 346062. From the numbers we can see the jail population for white people is larger than other races, however, white people also have a large proportion in the overall civil population of U.S. Therefore, we need more information to generate more accurate conclusions.

Incarceration Population State Rank

- In this graph, I selected the ten states with most incarceration population in the US. As we can see, the population of the first three states larger exceeds the rest of the seven states. California, Texas and Florida are all states with large population and urban size, it is reasonable for states with larger civil population to have larger incarceration population. I choose this variable because I wanted to know which states has a higher incarcertion population, and what factors might be the cause of it.

Incarceration Population in Gender

- In this graph, I have selected gender as my variables to represent incarceration population. As we can see, female population is much less than male population. However, we can also observe a decreasing trend for male population in the last ten years, whereas a increasing trend for female population. I choose gender as my two variables because I want to visually show the proportion of male and female population in jail system, and know more about the cause of this discrepancy.

Incarceration Population in the U.S.

- In this figure, Incarceration population is presented using different shades of blue. In this graph, we can get similar results from my first graph which presented the states with highest incarceration population. As we can see, California and Texas are in dark blue, which means they have a larger incarceration population than any other states. This map illustrates the differences between each states and we can get a full view of estimated population of every state.