**Documentation Page**

Background:

I am from Indiana and was married at the young at of 19. I thought it would be interesting to see what the median age was for marriage in my state as compared to other states. The dataset also provided population density information. I thought that was be interesting to see if more people in an area may have an effect on when you marry.

Design Process:

At first, I wanted to do a bar chart. I drew this up and it seemed like the chart might get messy with 50 states. I thought I could use age for the horizontal axis, but what about population density? I was already using the vertical axis for the states. Then I thought maybe a line that could represent the density. Yes! Messy is what it became. So I scrapped that idea and went with a map. But not just any map, a chloropleth.

Diagram

Description automatically generated

Rationale of your design choices:

I chose to implement a map because of the state data point. I chose the color from color brewer. I chose color a range of colors with variation from light to dark colorbrewer.com. At first, I used a small set of 5 color, but that didn’t show much variation. I then chose a color range with 10 colors to give the map some visual variations. I decide to add the interactivity with the hover tooltip to make it easier to map the median age to the density of color and state. I had aspirations to add a color scale mapped to population density but was overwhelmed by so much these past few weeks it did not happen.

Describe how you used your visualizations to discover facts or answer questions you had. Include evidence to support your findings as screenshots from the visualization.

From the map I can tell the northeast coast has the higher population density. As I was not able to map the age to the map, I could not see how median age corresponded to the density for the map. Looking at the dataset where the areas were most populated the median age was the highest. So I could conclude that the more people you are around, perhaps the more choices, the longer a person may take to get married.

Map

Description automatically generated

**Link to video:** [**https://youtu.be/JFR6vFyS5kY**](https://youtu.be/JFR6vFyS5kY)