Image 1: This image shows the first attempt at hardcoding the piechart, I realized that the dimensions though are not aligning

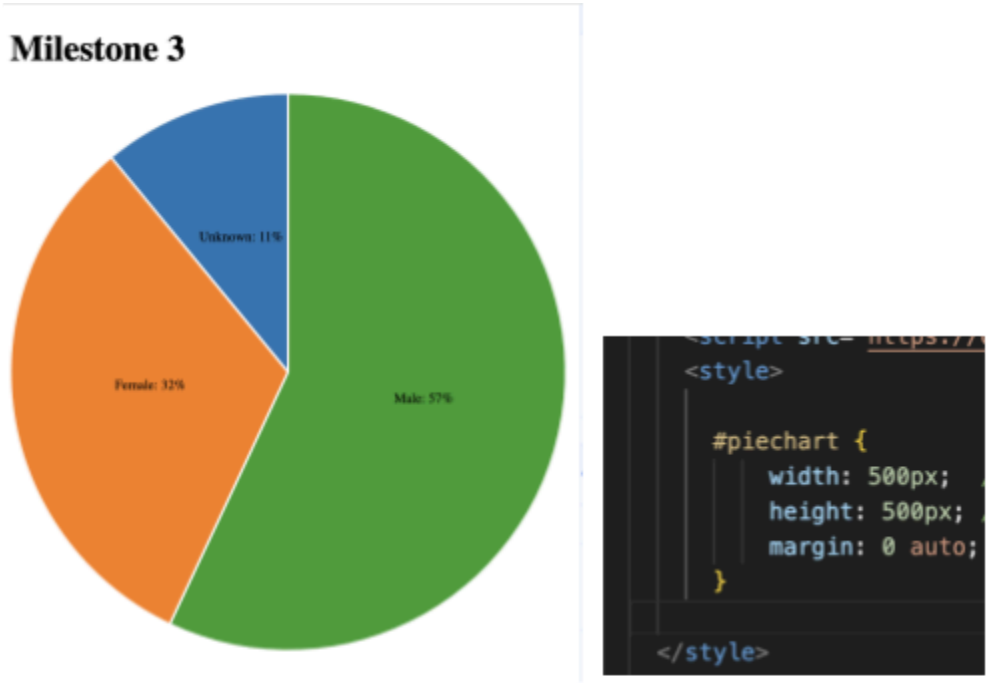
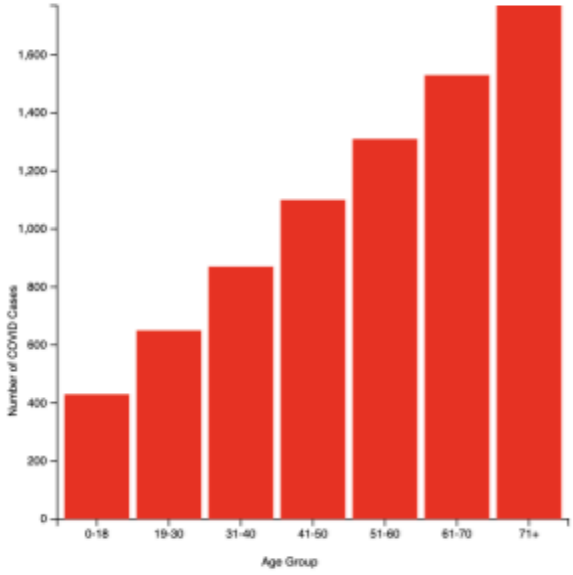


Image 2: This diagram shows what is expected to be seen from the pie chart, however at this point it is hard coded, I also needed to add the dimensions into the html file so that the image would not get cut off. Below shows the dimensions of the container

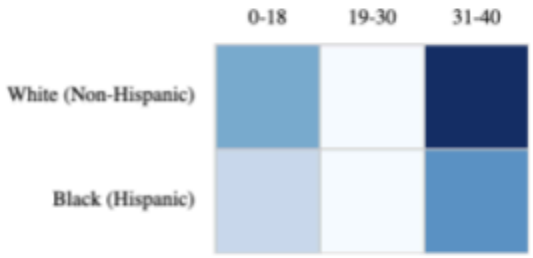
Milestone 3




```
dataset = [
{ age_group: "0-18", male: 200, female: 180, unknown: 50 },
{ age_group: "19-30", male: 300, female: 270, unknown: 80 },
{ age_group: "31-40", male: 400, female: 350, unknown: 120 },
{ age_group: "41-50", male: 500, female: 450, unknown: 150 },
{ age_group: "51-60", male: 600, female: 540, unknown: 170 },
{ age_group: "61-70", male: 700, female: 630, unknown: 200 },
{ age_group: "71+", male: 800, female: 720, unknown: 250 }
```

Image 3: Hardcoded the bar chart with these dimensions to test the function

Milestone 3




```
var data = [
    { age_group: "0-18", race: "White", ethnicity: "Non-Hispanic", count: 10 },
    { age_group: "0-18", race: "Black", ethnicity: "Hispanic", count: 5 },
    { age_group: "19-30", race: "White", ethnicity: "Hispanic", count: 15 },
    { age_group: "19-30", race: "Asian", ethnicity: "Non-Hispanic", count: 8 },
    { age_group: "31-40", race: "White", ethnicity: "Non-Hispanic", count: 20 },
    { age_group: "31-40", race: "Black", ethnicity: "Hispanic", count: 12 },
    { age_group: "41-50", race: "Asian", ethnicity: "Hispanic", count: 7 },
    { age_group: "51-60", race: "Black", ethnicity: "Non-Hispanic", count: 9 },
];
```

Image 4: Here is a hard coded heat map to show what will be expected when the csv file is connected

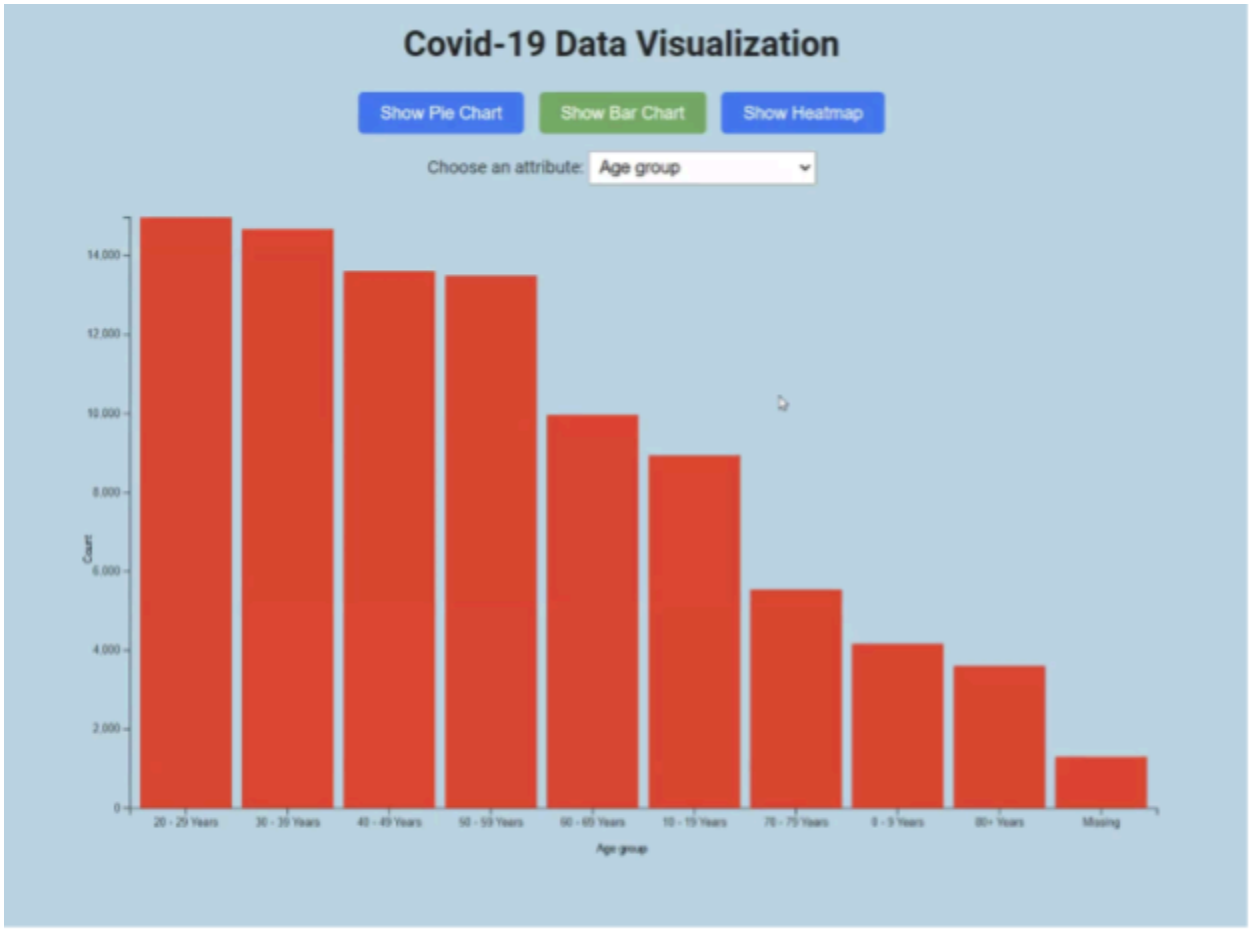


Image 5: this is our original format where you could click on the different visualization buttons to see them and then there was a drop down bar to change the attributed in the visualization

Image 6: Instead of having buttons to get to the different visualizations they are now on one page, also instead of a drop down menu for the different attributed they are now buttons at the top of the page

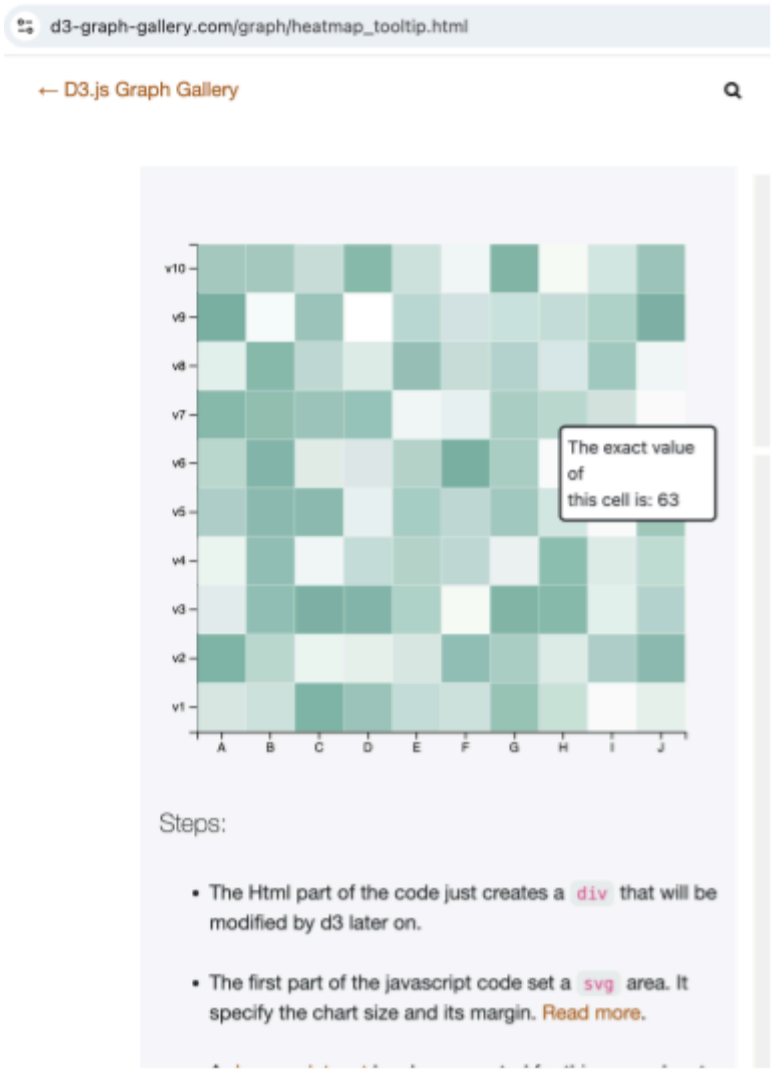


Image 7: this website was used to help design the heat map using d3. It showed different interactions and example code

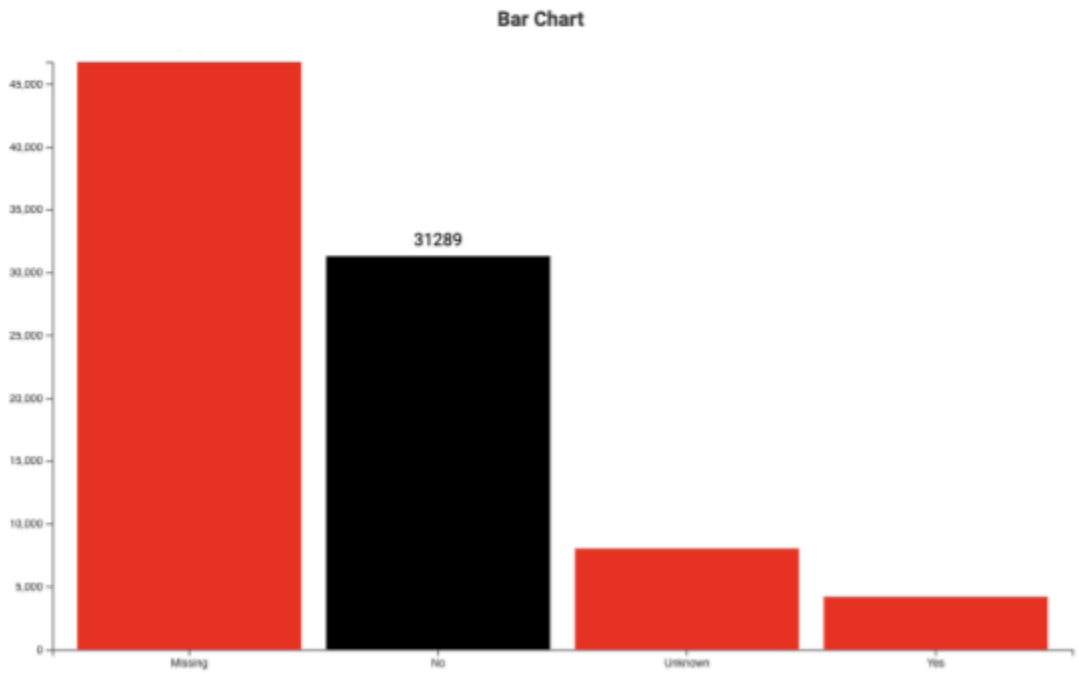


Image 8: To see the values of the chosen bar the original idea was to click on it and then the color would change and the value would appear above

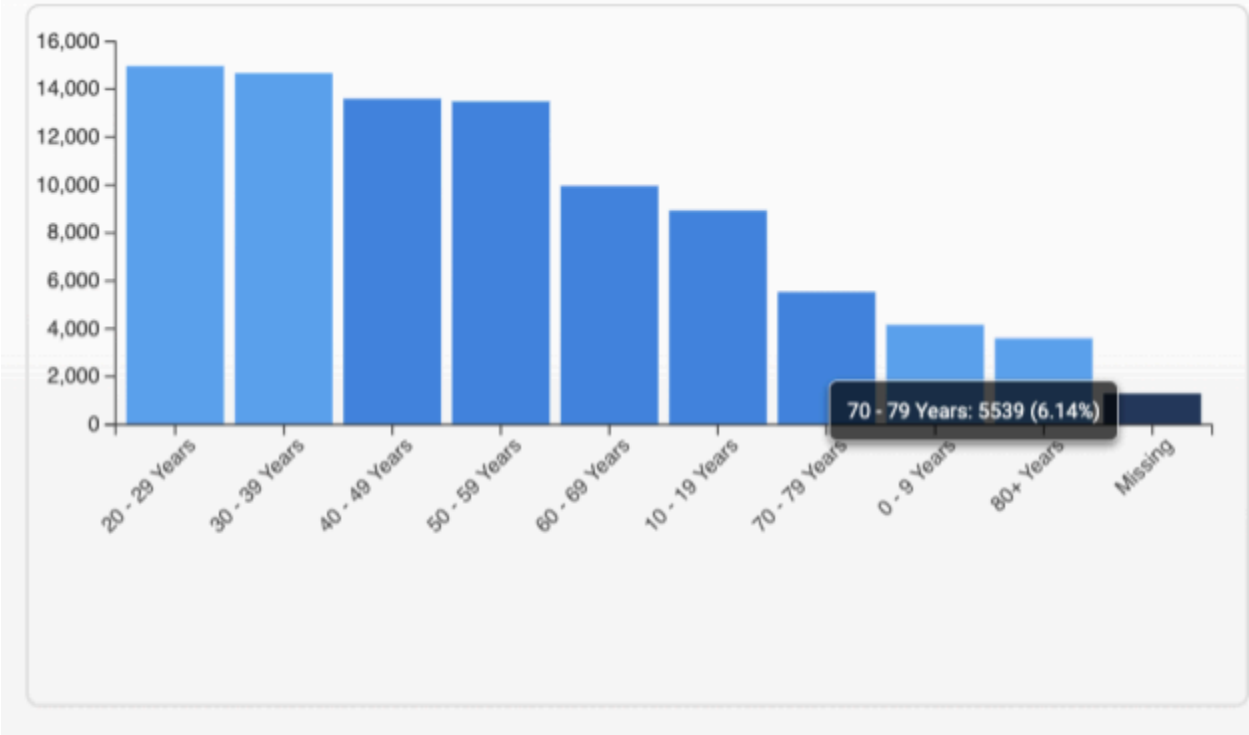


Image 9: as seen with the heat map example there was a hovering mouse aspect. That was decided to be added to all of the visualizations so that the color change could be for selecting a row or column of the heat map to be viewed

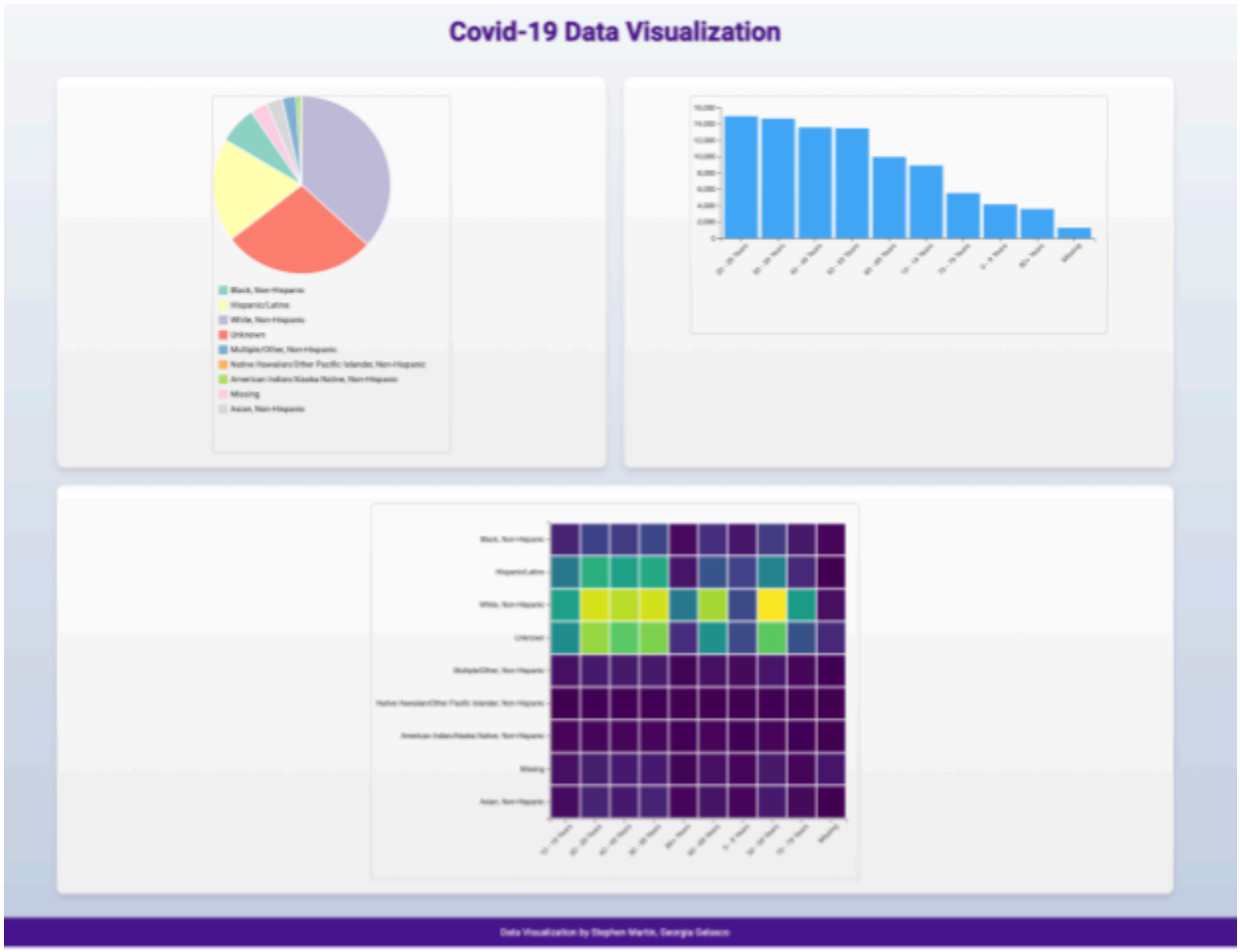


Image 10: This new format removes all drop down and buttons and has all the visualizations on one page. Overall the decision was to use age and race/ethnicity to show the number of covid cases. Which will allow for the heatmap to be a combination of the attributes so that the visualizations are related to eachother

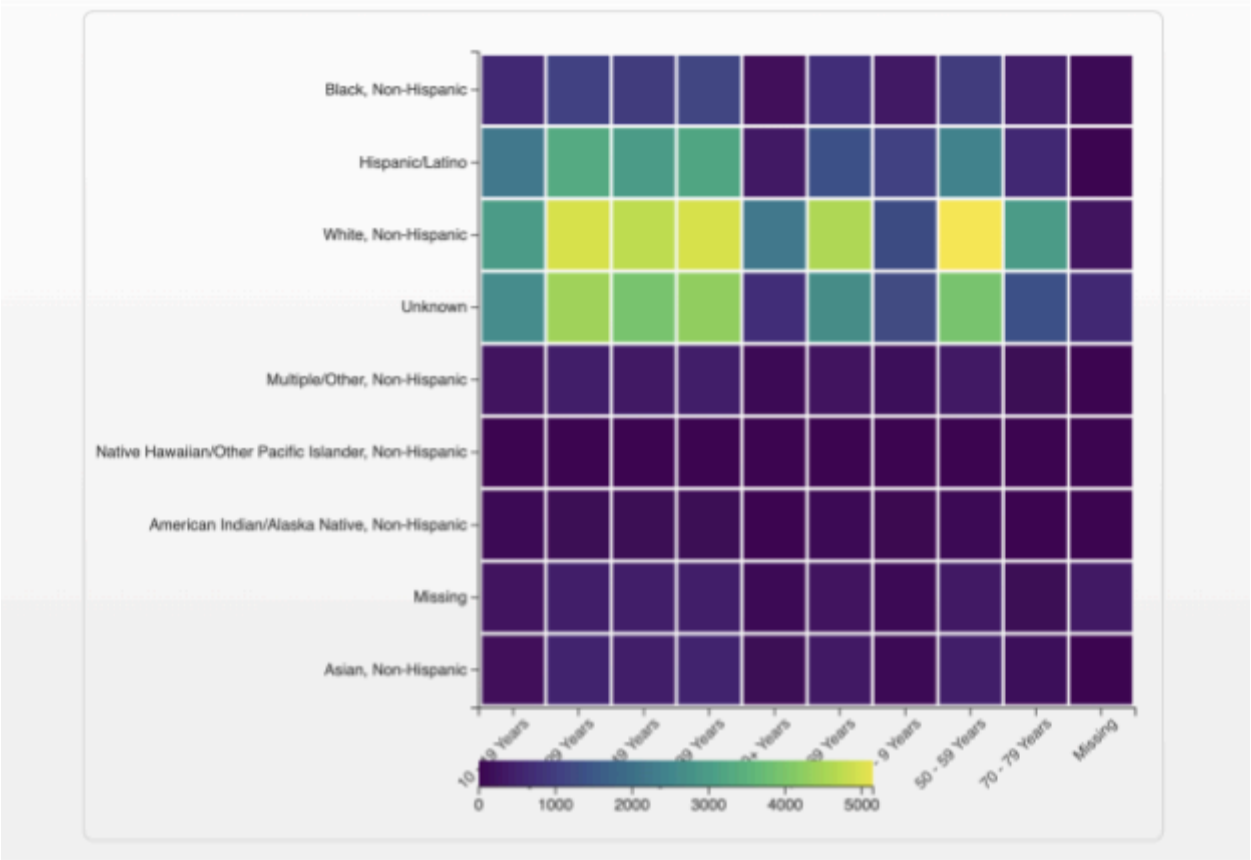


Image 11: A legend got added onto the heat map to make it understandable. Tried out multiple locations to see where the legend would fit best

Image 12: we added a click feature where you can filter based on the sections of the visualizations you picked. Along with this the legend adjusts when filtering to have more clear data

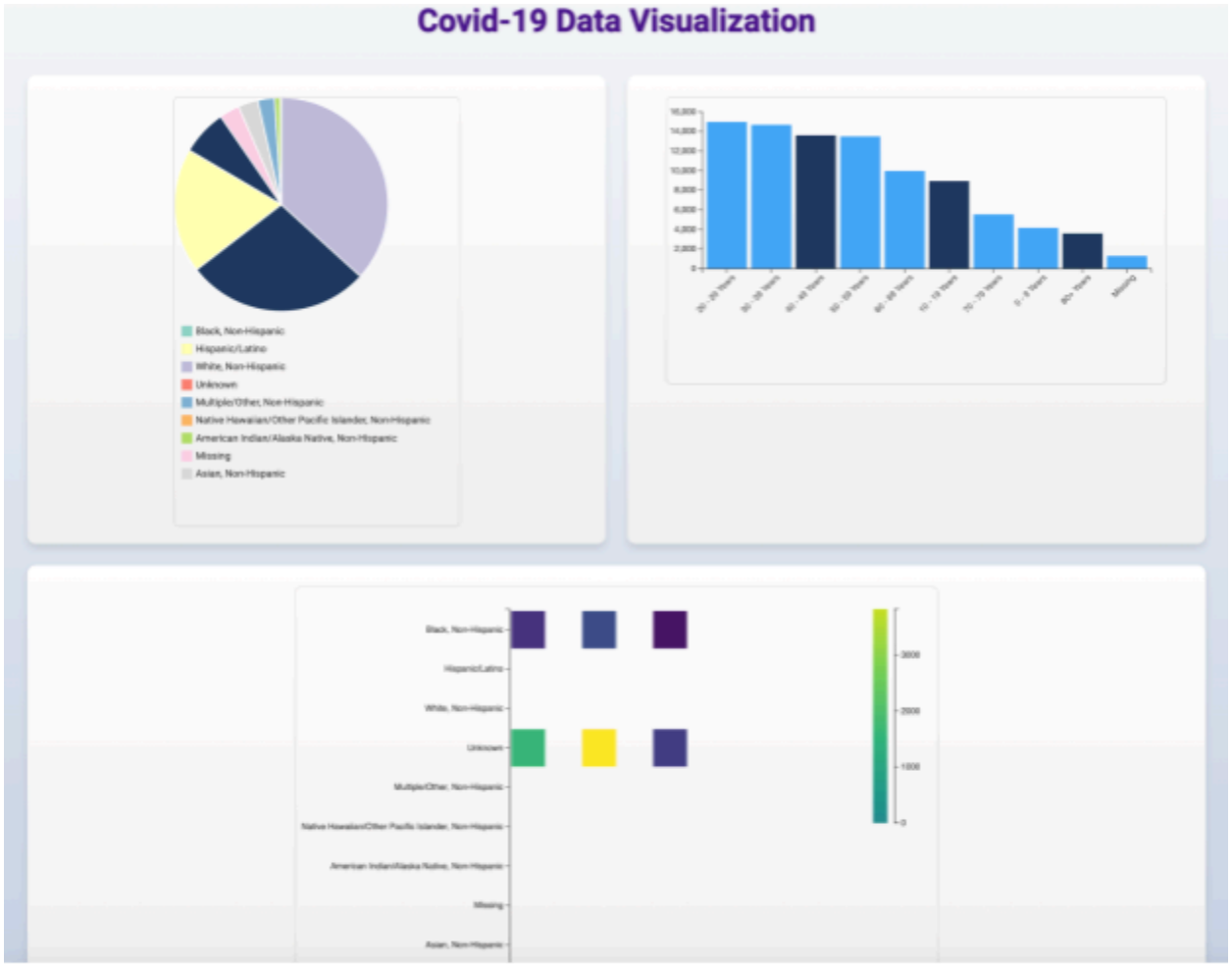


Image 13: Added the feature where if you click on both visualizations only the overlapping blocks would be visible