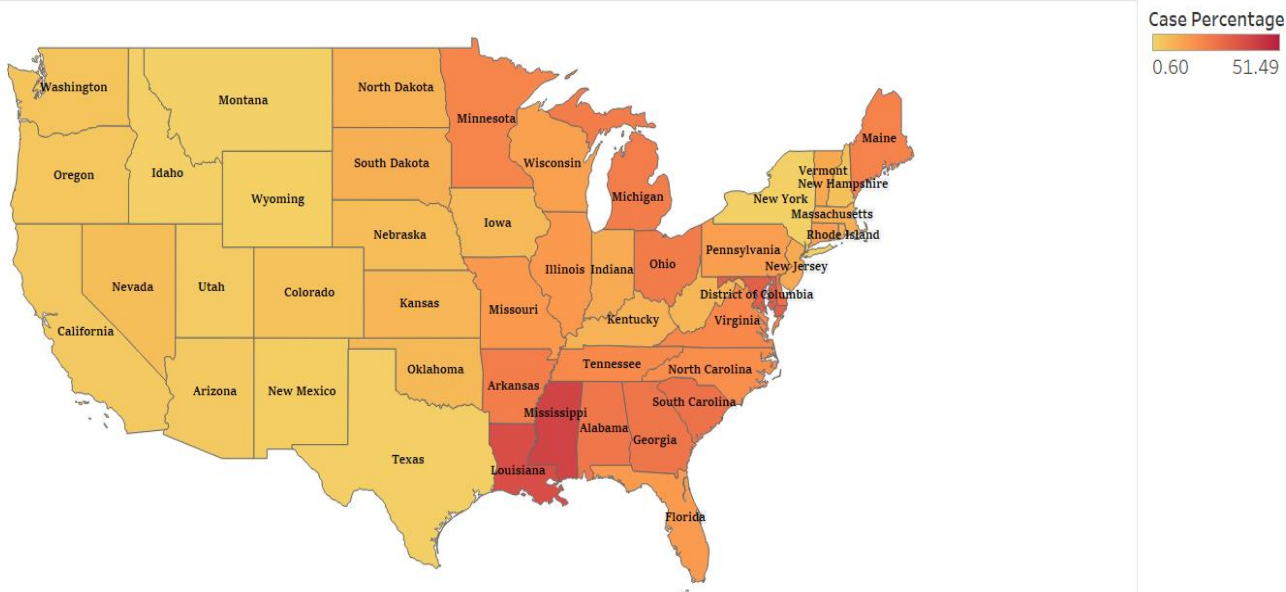# COVID-19 and Racial Disparities

Case differences (Black)

The below map shows the Covid-19 cases among black people across the country.

The graph includes the data consisting of the estimated total population, total cases, and the number of black people infected by Covid-19 cases.

Case differences (Black)

Map based on Longitude (generated) and Latitude (generated). Color shows sum of Black Cases Percentage. The marks are labeled by State. The view is filtered on State, which excludes Alaska and Hawaii.

It can be seen that most black people affected by Covid-19 lived in the Southeast, Northeast, and Midwest regions. Whereas Southwest and West had fewer number of Covid-19 cases involving black people.

The covid-19 infection had a major impact on the black population in Mississippi, the District of Columbia, and Louisiana. The District of Columbia had the highest percentage of cases involving black people, accounting for approximately (51.49%) of all cases, followed by Mississippi (40.96%) and Louisiana (37.23%). These three states had the highest number of Covid-19 cases involving black people of any state in the country.
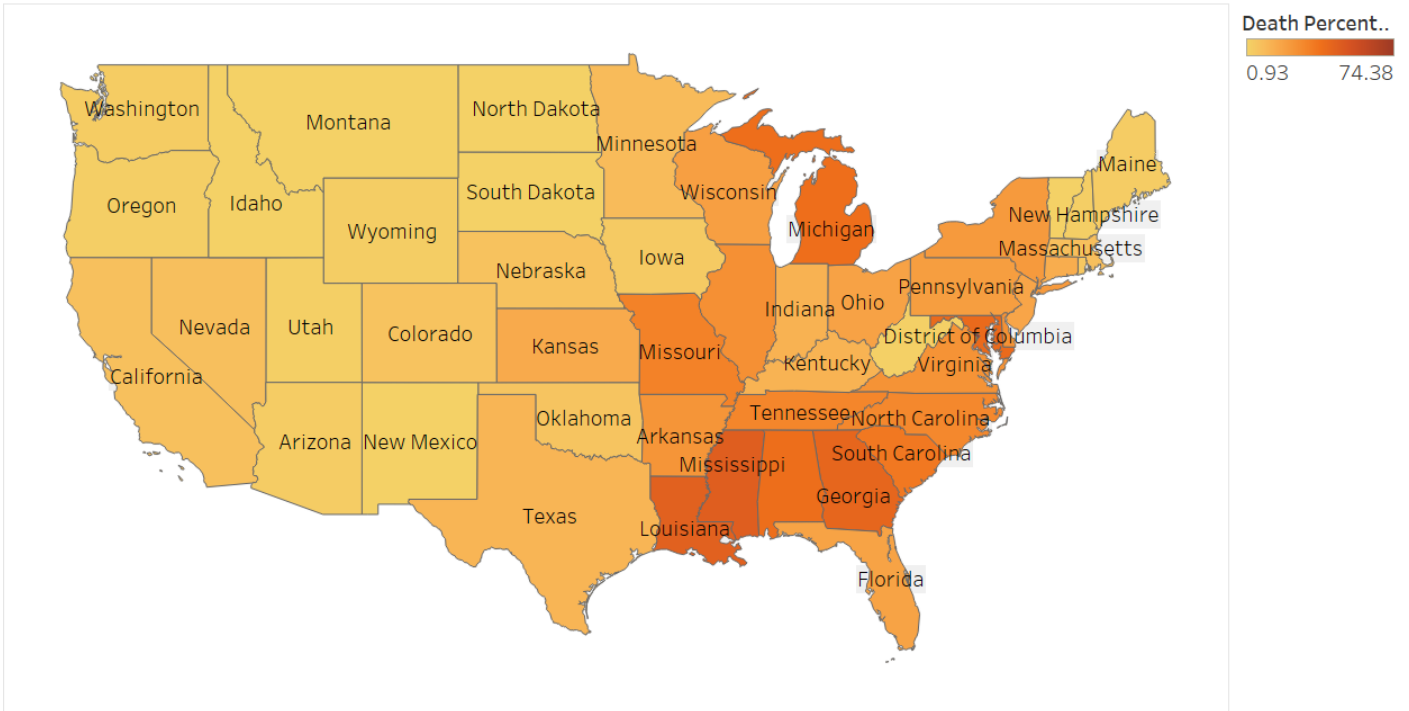
The least Covid-19 cases that affected black people were in the West region where the highest case percentage was 4.15% in the state of Washington. The total number of Covid-19 cases that affected black people in the West Region was 20.25% in comparison with The District of Columbia.

Death differences (Black)

The below map shows the Covid-19 deaths among black people across the country.

The graph includes the data consisting of the estimated total population, total deaths, and the number of black people deaths by Covid-19.

Death differences (Black)

Map based on Longitude (generated) and Latitude (generated). Color shows sum of Black Deaths Percentage. The marks are labeled by State. The view is filtered on State, which excludes Alaska and Hawaii.

It can be seen that most black people who died of Covid-19 lived in the Southeast, Northeast, and Midwest regions. Whereas Southwest and West had fewer deaths related to Covid-19 cases involving black people.
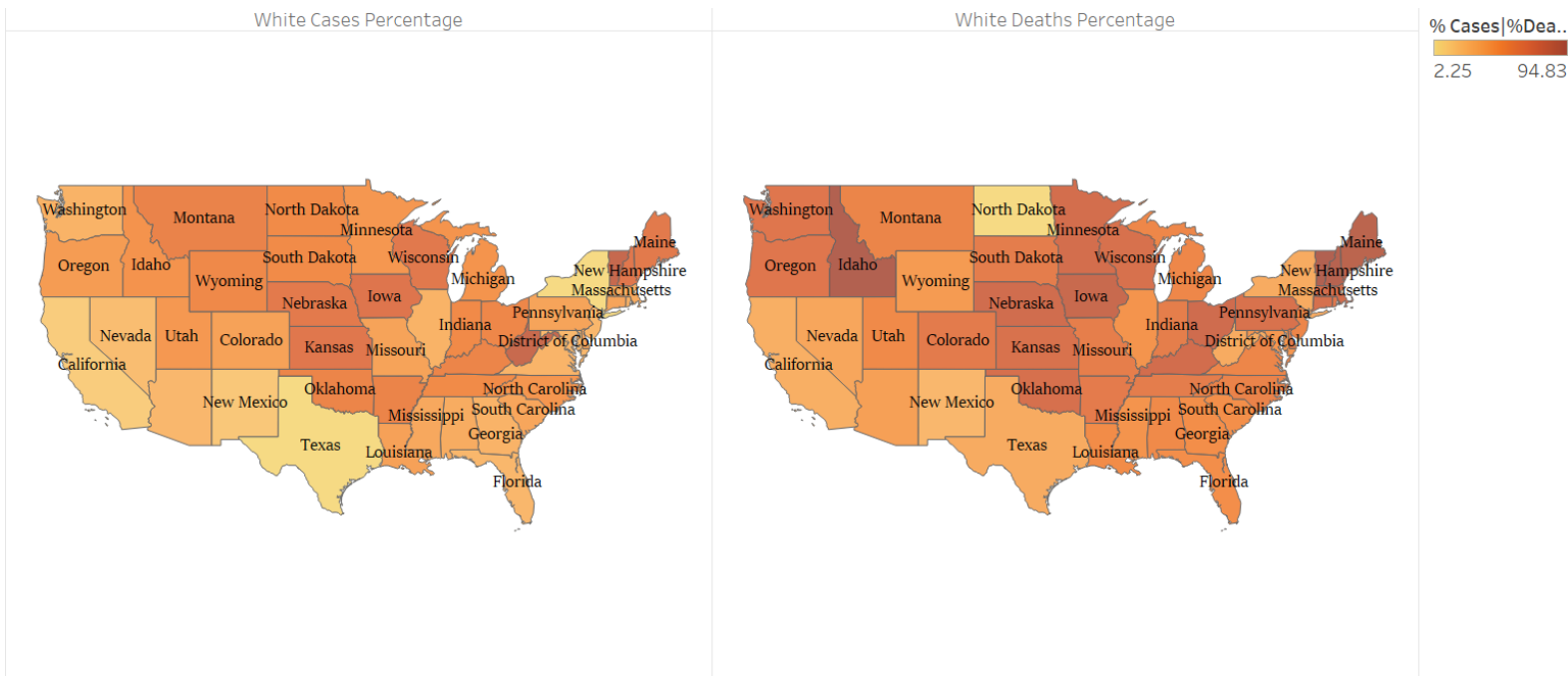
The Covid-19 deaths had a major impact on the black population in Mississippi, The District of Columbia, Georgia, Maryland, Michigan, and Louisiana. The District of Columbia had the highest percentage of deaths due to Covid-19 involving black people, accounting for approximately (74.38%) of all deaths in the state, followed by Mississippi (47.41%), Louisiana (45.89%), Georgia (42.99%), Maryland (40.84%) and Michigan (38.76%). These six states had the highest number of deaths due to Covid-19 cases that involved black people.

The least Covid-19 deaths of black people were in the West region where the highest death percentage was 7.62% in the state of California. The total number of deaths related to Covid-19 in black people in the West Region was 17.70% in comparison with The District of Columbia.

Case and Death differences (white)

The below map shows the Covid-19 cases and deaths among white people across the country.

The graph includes the data consisting of the estimated total population, total cases, total deaths, cases of white people infected by Covid-19, and the number of White people deaths by Covid-19.

Map based on Longitude (generated) and Latitude (generated) broken down by White Cases Percentage and White Deaths Percentage. Color shows White Cases Percentage and White Deaths Percentage. The marks are labeled by State. Details are shown for State. The view is filtered on State, which excludes Alaska and Hawaii.

It can be seen in the map above that white people were infected in almost similar proportions throughout the country. The highest number of cases of white people were from the states of Vermont (82.63%), West Virginia (80.96%), Iowa (67.33%), Kansas (65.38%), Wisconsin (64.45%), and Nebraska (62.94%).

Similarly, most of the states had a death rate that was higher for the white population, The most deaths in the white population due to covid-19 were in the states of Vermont (94.83%), Idaho (94.65%), New Hampshire (91.86%), Maine (88.63%) and Iowa (81.41%).

Which of these graphs best displays the story about COVID-19 disparities by race? Why?

The Black Death difference graph best displays the story of COVID-19 disparities as the graph demonstrates that compared to White individuals, Black people have had greater incidences of COVID-19 deaths. It can also be seen that the highest number of Black people that died due to Covid-19 were from the Southeast and Northeast parts of the country.

How does your graphical analysis align with those shown in the above-mentioned NPR story?

The graphical analysis in the NPR Story represents a similar outcome in that black people were more impacted by Covid-19 both in terms of cases and deaths. Where similar observations can be made in the above two graphs Case differences and Death differences for Black People. The story also covers the states where the black population was most impacted by Covid-19 similar graphical representation can be found in the graphs Case Differences (Black) and Death Differences (Black).

What are some alternative graphical analyses you would like to have included? Why?

The alternative graphs I would like to have included were

- **Line Graph -** as the line chart allows a comparison between two or more series.
- **Bar Graph –** As it is easy to read and we can show more than one category.
- **Scatterplot –** It can be used to show the relationship between 2 variables.