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#### **SOME FACTS ABOUT COVID-19**

COVID-19 is an infectious disease caused by the recently found virus known as SARS-CoV-2 (or coronavirus). Before the outbreak originated in Wuhan, China on December 2019, there was no information about this virus

The oldest common ancestor of coronavirus has been dated as far back as the 9th century BC.

This disease can spread from person to person through small droplets from the nose or the mouth when the infected person coughs or exhales

SARS-CoV-2 binds tightly to human cells.

#### **CODE to Create the Country Map**

We used Plotly to create an interactive html map that we could use to show the Covid-19 information by hovering the mouse over a certain country

```
import plotly.tools as tl
import plotly.express as px
import plotly.offline as py
from plotly.offline import iplot
import plotly graph objects as go
from plotly subplots import make subplots
#World Map with Total Confirmed and Total Recovered
fig = px.scatter_mapbox(New_df, title="World Map with Total Confirmed and Total Recovered", |lat="latitude", lon="longitude", hover_name="Country",
hover data=["TotalRecovered", "TotalConfirmed"],
               color_discrete_sequence=["fuchsia"], zoom=3, height=300)
fig.update layout(mapbox style="open-street-map")
fig.update layout(title x=0.5,
  title y=0.95,
  mapbox={"style": "carto-positron", "center": {"lon": 2, "lat": 47}, "zoom": 4.8},
  margin={"l": 0, "r": 0, "b": 0, "t": 80})
fia.show()
fig.write html('first figure2.html', auto open=True)
```

#### Countries where Covid 19 is Active

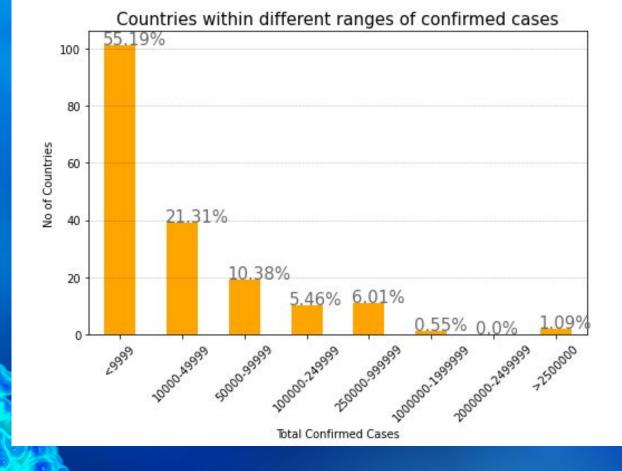


Each Country with a pink dot has an active Covid-19 Pandemic

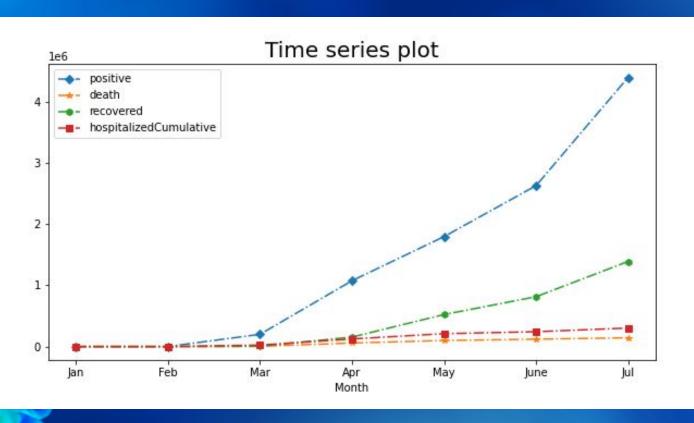
#### **US Statisctics**

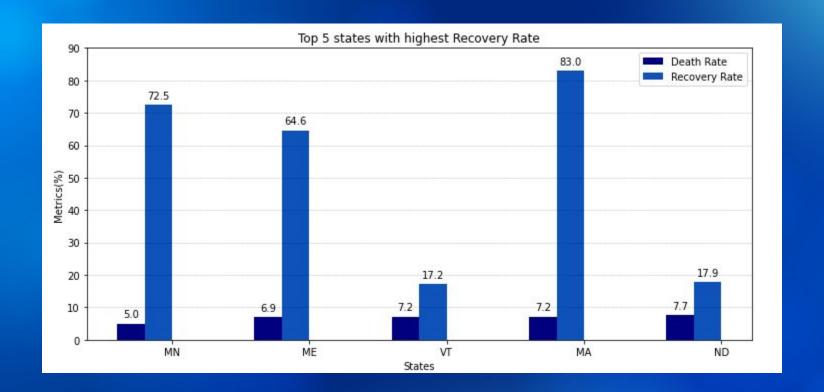


As of Today the US has over 4.4 million confirmed cases and over 1.3 people which have recovered

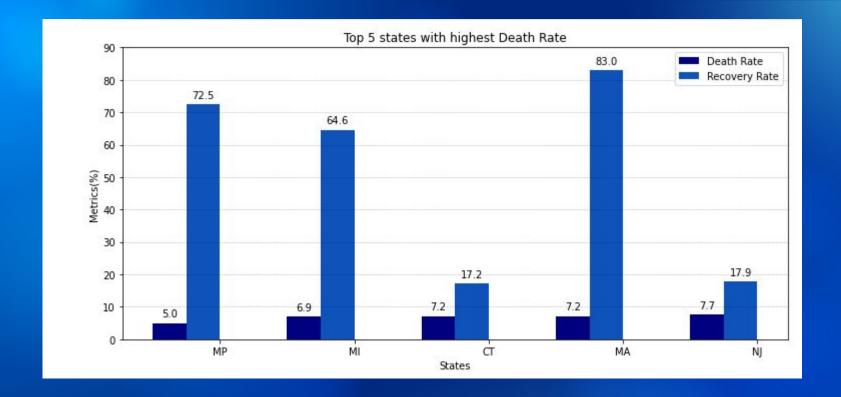


### Time series plot for US cases over the months





MA has the highest Rate.



NJ has the highest death rate compared to the other states.

You saw the percentages on the top of Bar Chart?
This is how we did it:

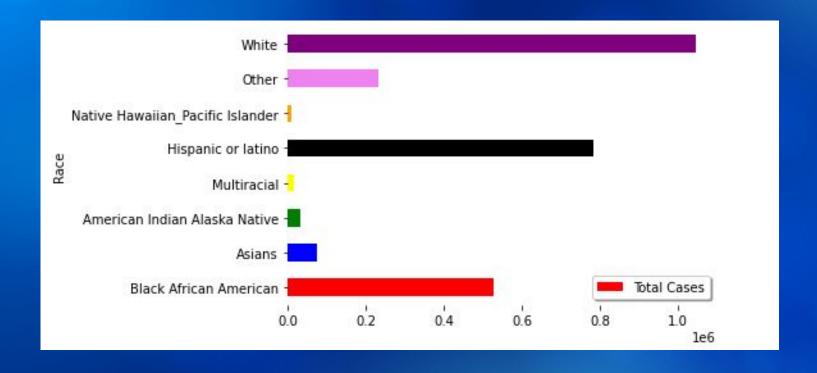
```
fig. ax = plt.subplots(figsize=(10.5))
width = 0.2 \# width of bar
x = np.arange(length)
ax.bar(x, Death_df["Death Rate"], width, color='#000080',
label='Death Rate')
ax.bar(x + width, Death df["Recovery Rate"], width,
color='#0F52BA', label='Recovery Rate')
for p in ax.patches:
  ax.annotate(format(p.get height(), '.1f'),
            (p.get x() + p.get width() / 2., p.get height()),
            ha = 'center', va = 'center',
            xytext = (0, 9),
            textcoords = 'offset points')
```

#### COVID Racial data

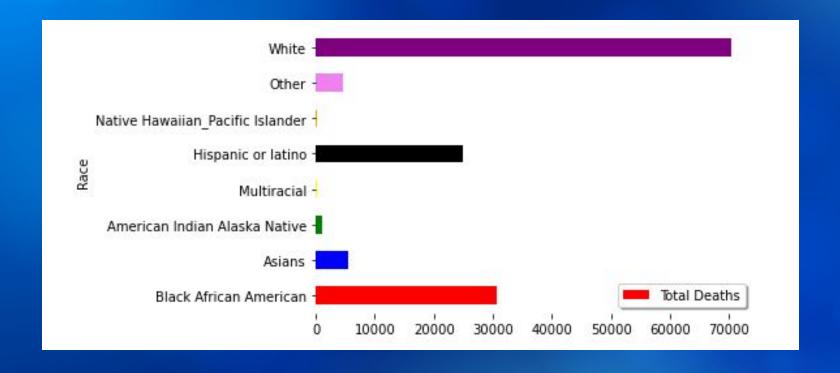
- COVID-19 is affecting Black, Indigenous, Latinx, and other people of color the most
- 2. We pulled latest data & analyzed impact of COVID for different races in USA

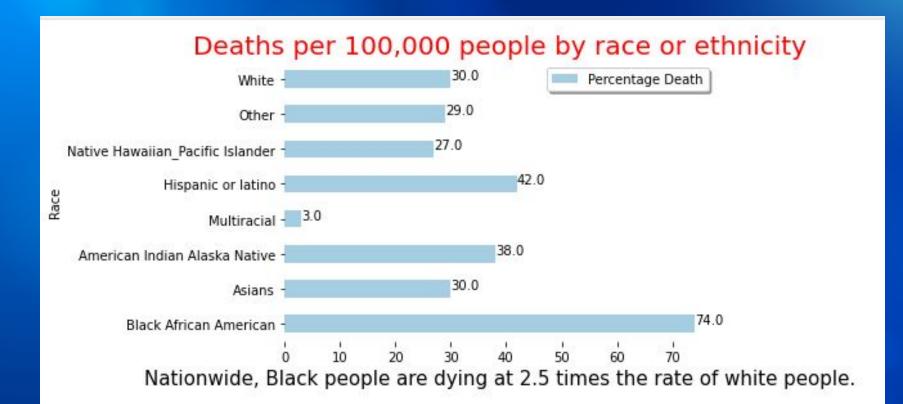
Here we present the analysis

## Total cases reported by Race



## Total deaths reported by Race





#### Resources

https://covidtracking.com/

https://covid19api.com/

https://data.census.gov/cedsci/table?q=United%20States&q=0100000US&tid=ACSDP1Y2018.D

P05

https://plotly.com/python/

# THANKS!







CREDITS: This presentation template was created by Slidesgo, including icons by Flaticon, and infographics & images by Freepik

