# CSE 564: Final Project

# Visualizing Covid 19 Data worldwide

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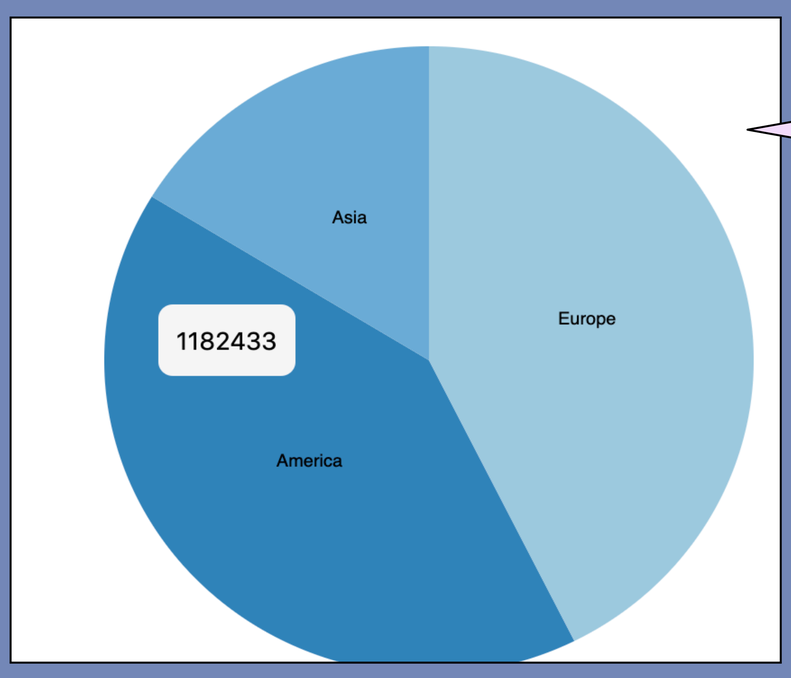
## INTRODUCTION

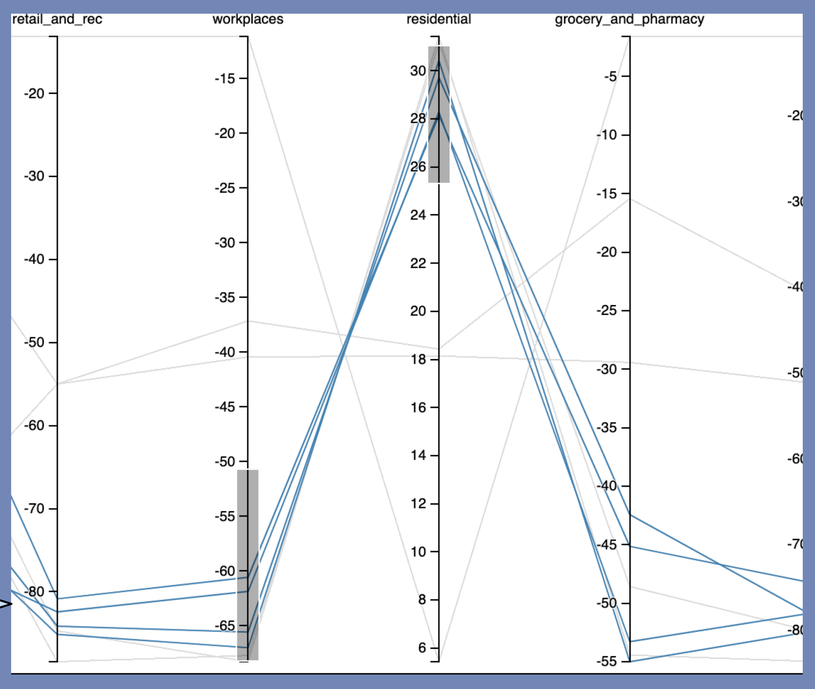
Covid-19 is caused by a coronavirus called SARS-CoV-2. It is thought to spread mainly from person to person, mainly through respiratory droplets produced when an infected person coughs or sneezes.The virus that causes COVID-19 is spreading very easily and sustainably between people. We are fusing two datasets to find the insights and show statistical analysis on the trends, the effect on mobility factors and the majorly affected continents. We have chosen 105 countries common in both dataset spanned across the 3 months approximately.

## OBSERVATIONS

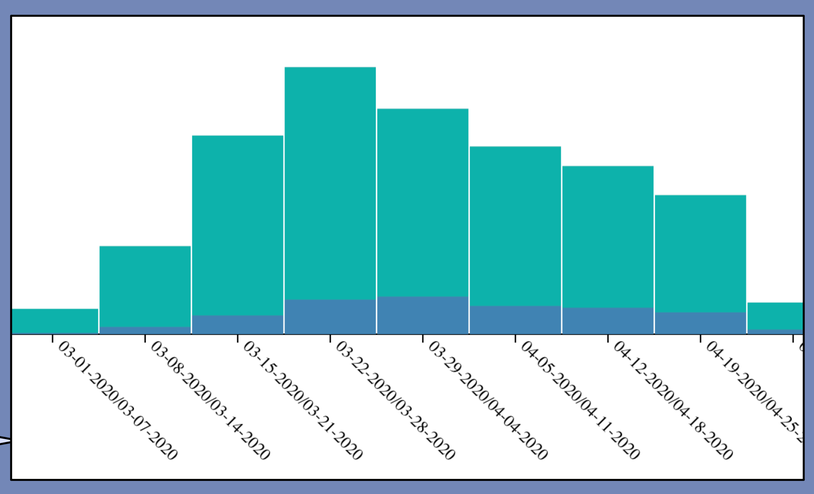



America is the most affected continent and hence has the most number of cases. Asia, and Europe are the other affected continents.

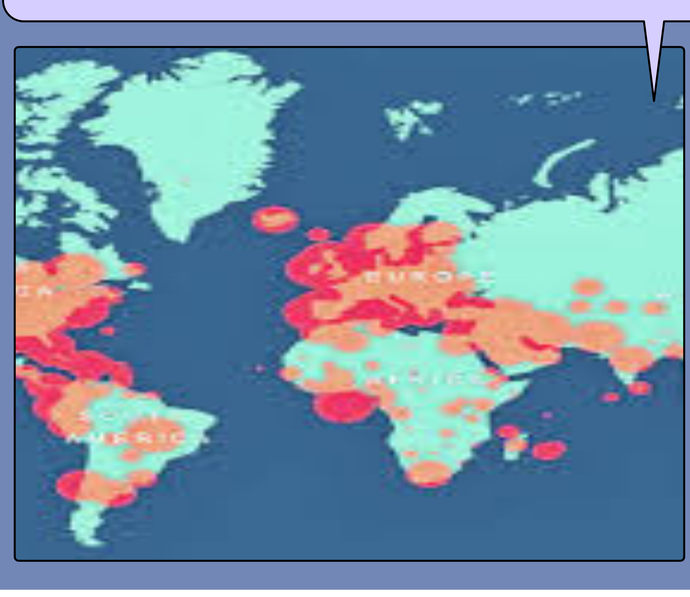
The brushed parallel coordinate plot shows that residential mobility is negatively correlated with other mobility factors




A stacked bar chart to show deaths and cases across a country. We can see that its peaking in the middle which means it was less initially and post lockdown the cases and deaths decrease, showing a pattern which is same for both deaths and cases.




A generic heat map on covid-19 showing the countries that are affected because of this.



## CONCLUSION

We identified that America reported most number of cases in the past three months. Also initially in the month of March cases were less but after the outbreak of this pandemic cases started peak and then started decreasing explaining the measures such as lock down taken by the government. We can also see the mobility factors affected with respect to the increasing dates for a country such as workplace mobility, transit mobility and parks mobility change which is decreasing and the residential mobility change which is increasing as people are preferring to stay at home to avoid socializing.

YouTube Video: https://www.youtube.com/watch?v=ogQjymGZRAk

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