Mapping Coronavirus pandamic on world's map using python

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Outline

- The topic

- The data

- Results &Visualization

- Summary and future directions

The topic: Mapping COVID 19 Why?

- Hot topic for researchers and data scientists
- Numerous free data available updated daily
- Chances to learn statistical testing, regression, AI, ML and mathematical modeling in single topic
- Important because the pandemic is not over yet
- Up to date online help availabe

The data

- The data was downloaded as xlsx file from

https://ourworldindata.org/coronavirus

- Data file imported to pandas data-frame

- Data contained other useful information as age, sex, medical condition number of people effected.

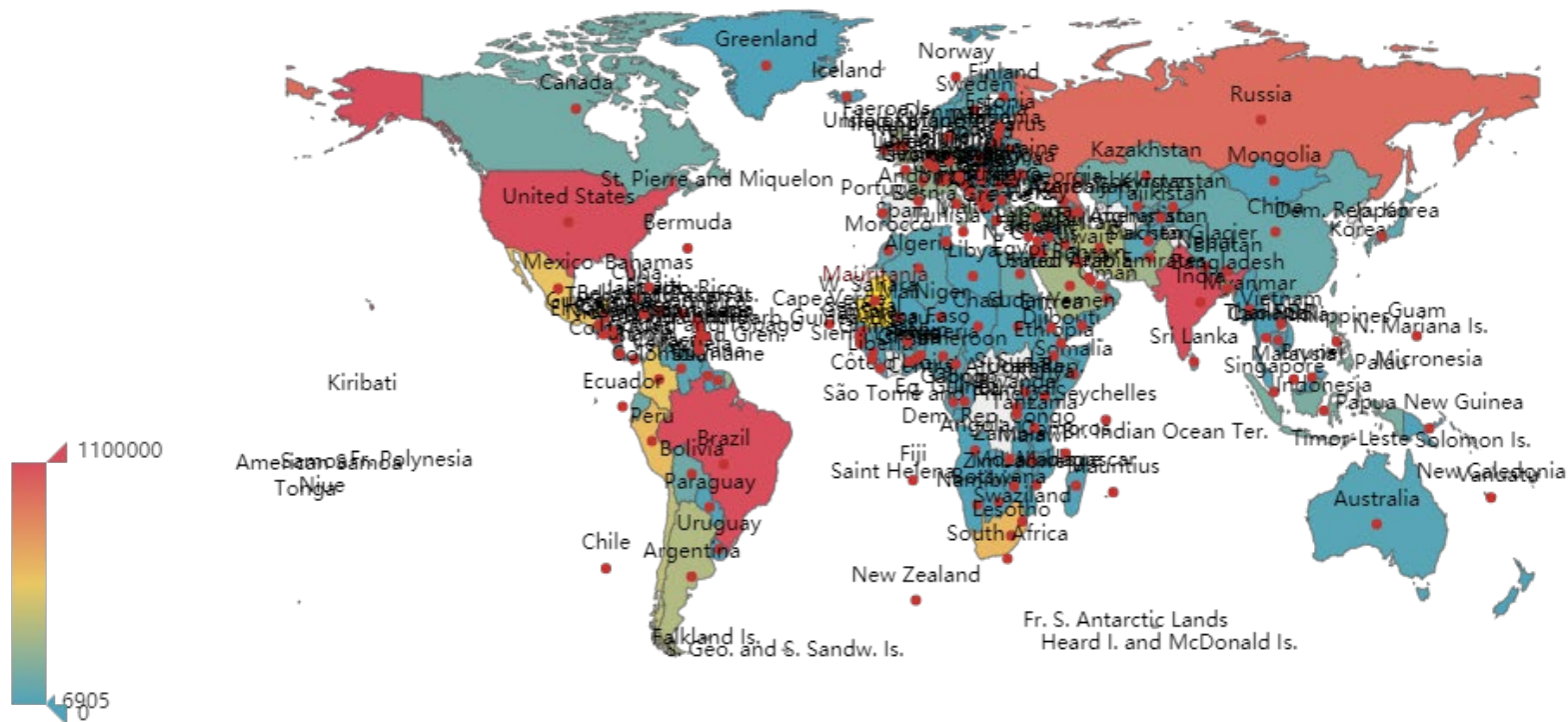- The data was availabe in json, csv and xlsx formats

Results

Fig. 1: Interactive map showing country wise covid-19 data as of Aug 25, 2020. It looks messy so as many country names overlapping in the map
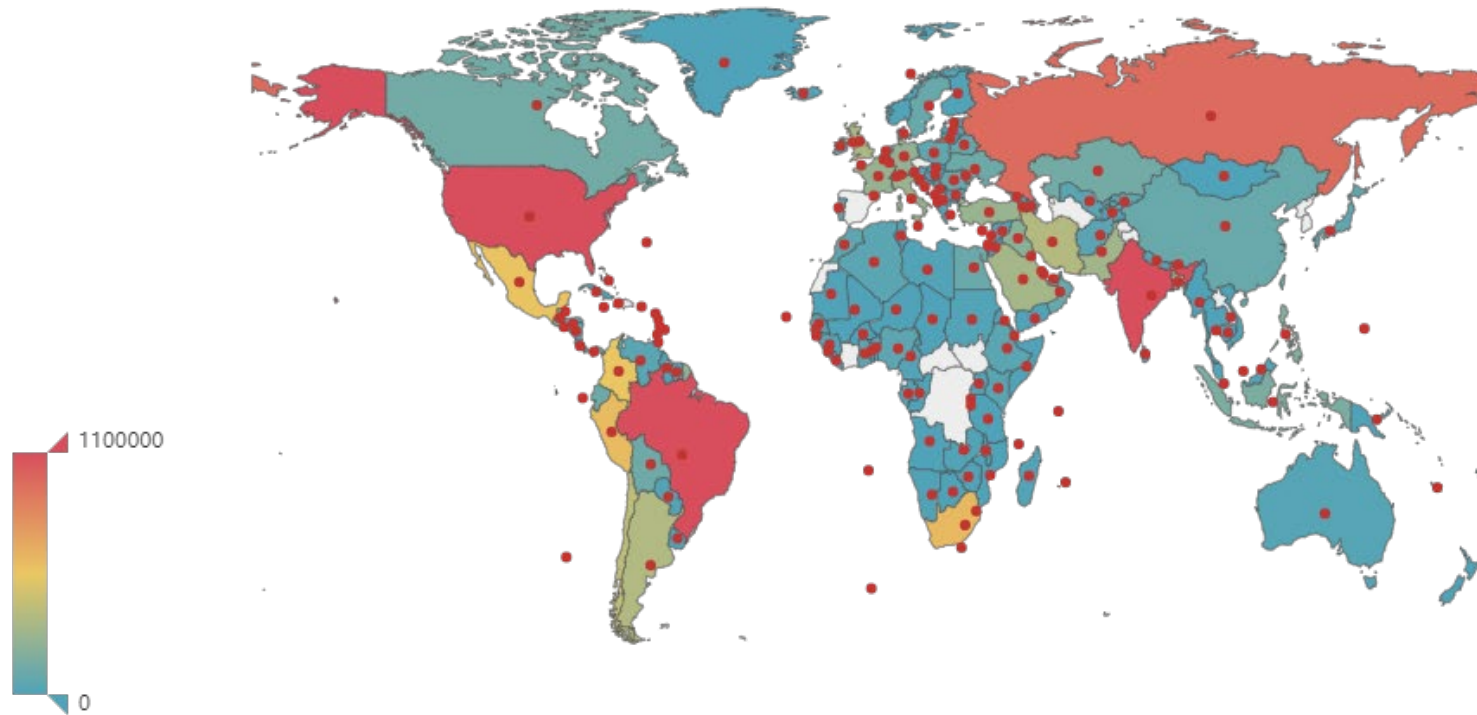
Fig.2: A dot was introduced instead of countries name to get rid of the mess
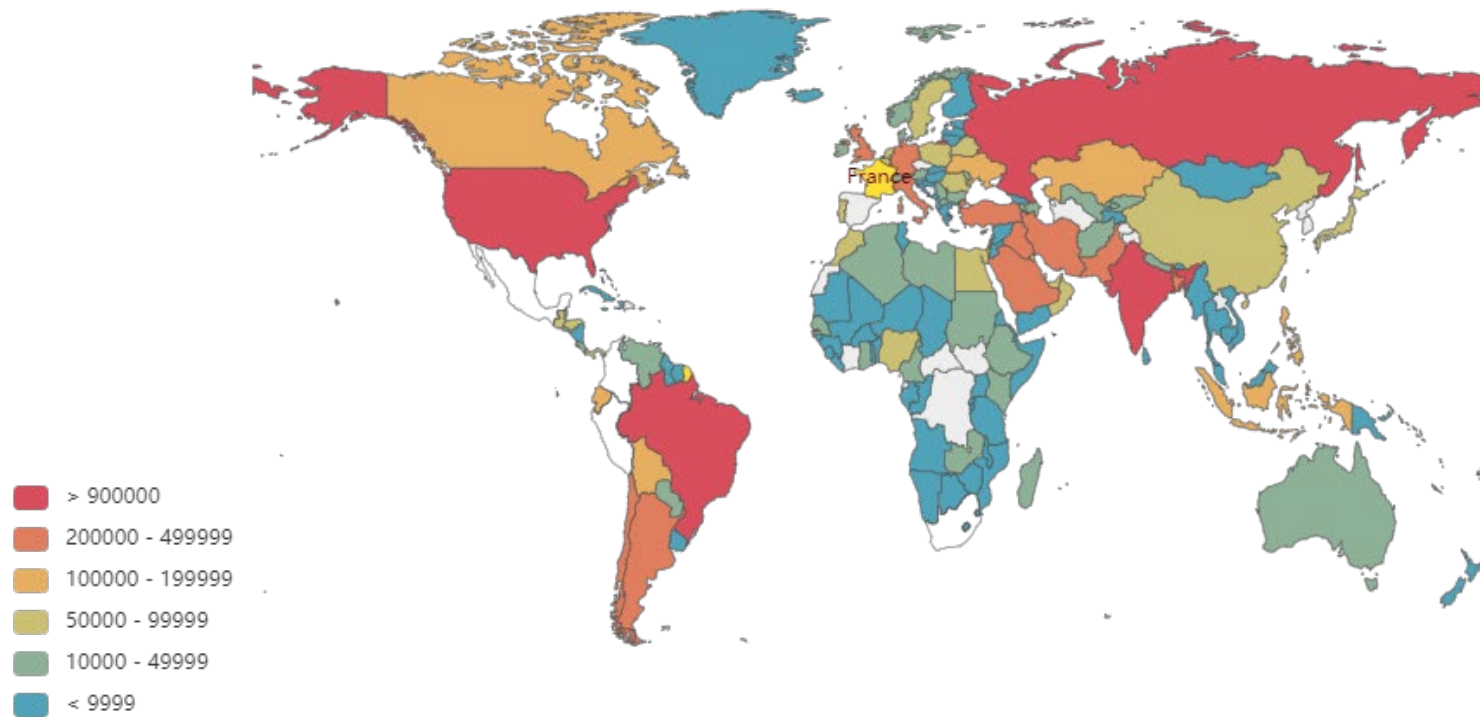
Fig.3: Data is organized using conditional statement by color coding different countries having cases in certain range
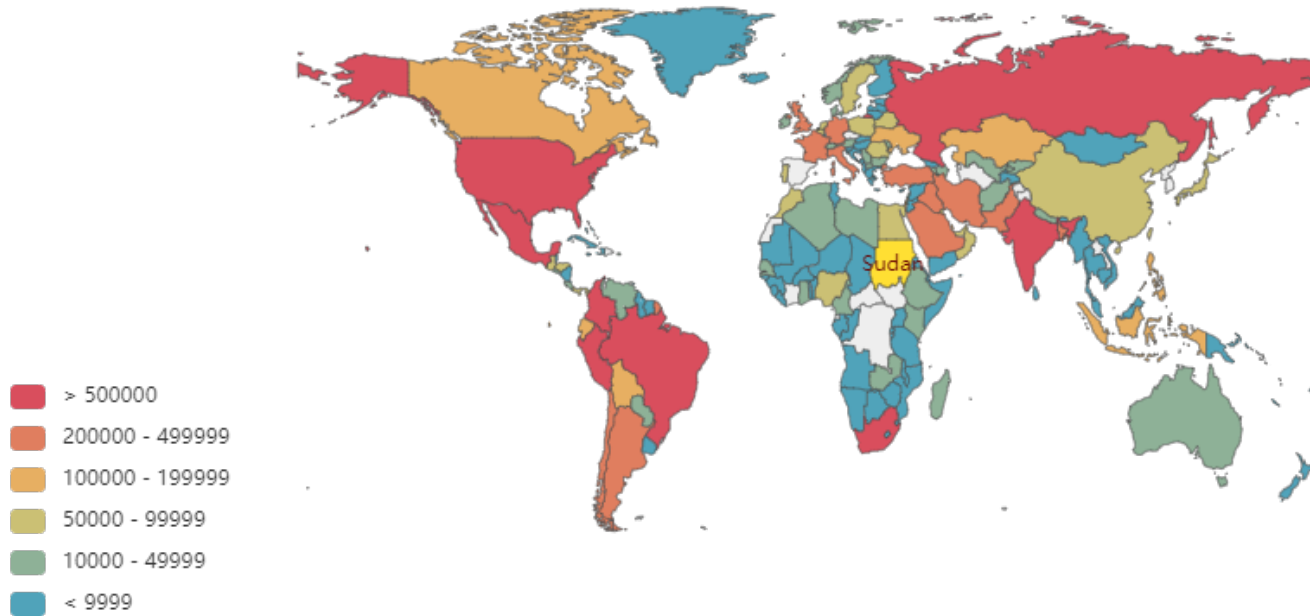
Fig.3: Legends are added to the map to make it more user friendly

Summary & future work

- The power of python for utilizing geospatial data into a data frame

- We know the importance of understanding the spread of Covid-19

- In future, I would try to develop predictive modeling by using the machine learning techniques I learned in this course