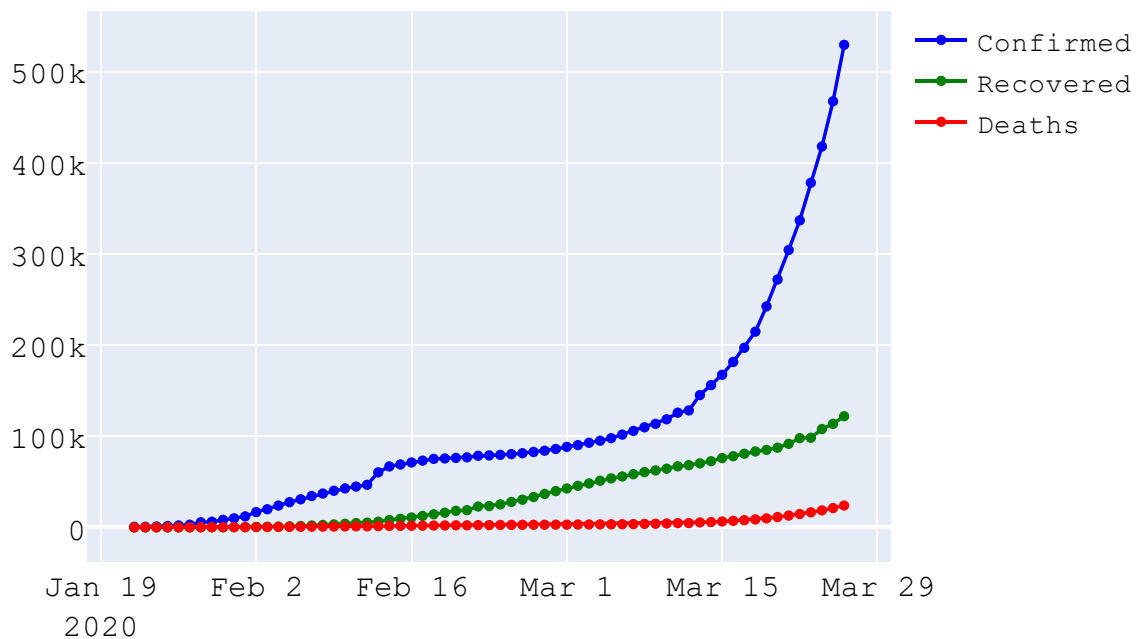## COVID-19 Data Visualization
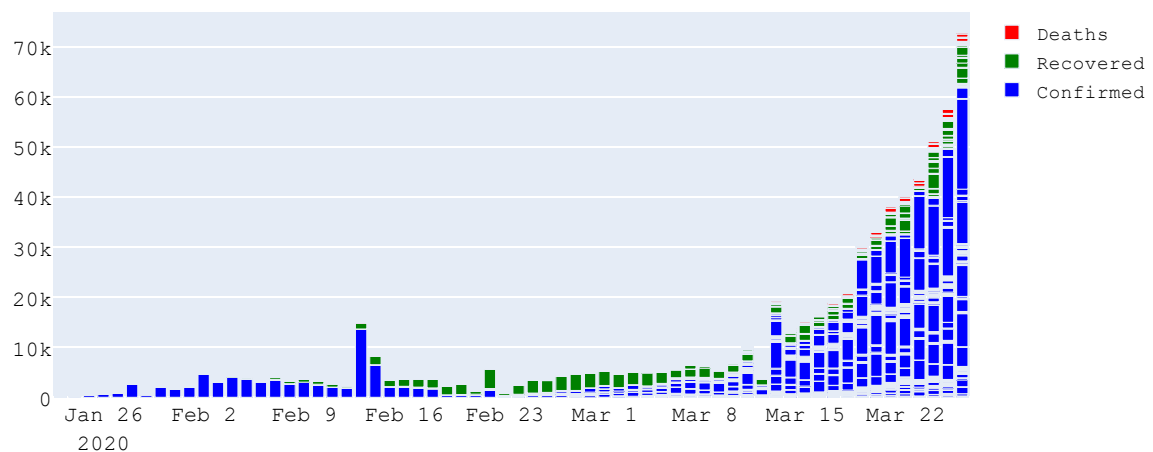
Note: *All visualizations shown below are based on the data from 22-01-2020 until 26-03-2020*

Increasing trend of daily cases
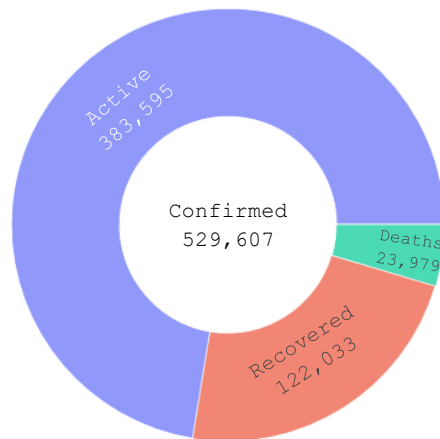
Cumulative Cases over period of time

Daily new confirmed cases including deaths and recoveries

Total Confirmed cases, deaths, recovered cases and mortality rate

Breakup of total confirmed cases

	Country/Region	Confirmed	Active	Deaths	Recovered
0	USA	83836	81946	1209	681
1	China	81782	4310	3291	74181
2	Italy	80589	62013	8215	10361
3	Spain	57786	46406	4365	7015
4	Germany	43938	37998	267	5673
5	France	29551	22898	1698	4955
6	Iran	29406	16715	2234	10457
7	United Kingdom	11812	11082	580	150
8	Switzerland	11811	11489	191	131
9	South Korea	9241	4966	131	4144
10	Netherlands	7468	7027	435	6
11	Austria	6909	6748	49	112
12	Belgium	6235	5340	220	675
13	Canada	4042	4004	38	0
14	Turkey	3629	3528	75	26
15	Portugal	3544	3441	60	43

	Country/Region	Deaths	Death Rate %
0	Italy	8215	10.1937
1	Spain	4365	7.55373
2	China	3291	4.02411
3	Iran	2234	7.59709
4	France	1698	5.746
5	USA	1209	1.4421
6	United Kingdom	580	4.91026
7	Netherlands	435	5.82485
8	Germany	267	0.607674
9	Belgium	220	3.52847
10	Switzerland	191	1.61714
11	South Korea	131	1.4176
12	Indonesia	78	8.7346
13	Brazil	77	2.57956
14	Sweden	77	2.71127
15	Turkey	75	2.06669

Composition of COVID-19 cases

Confirmed cases continent-wise and country-wise
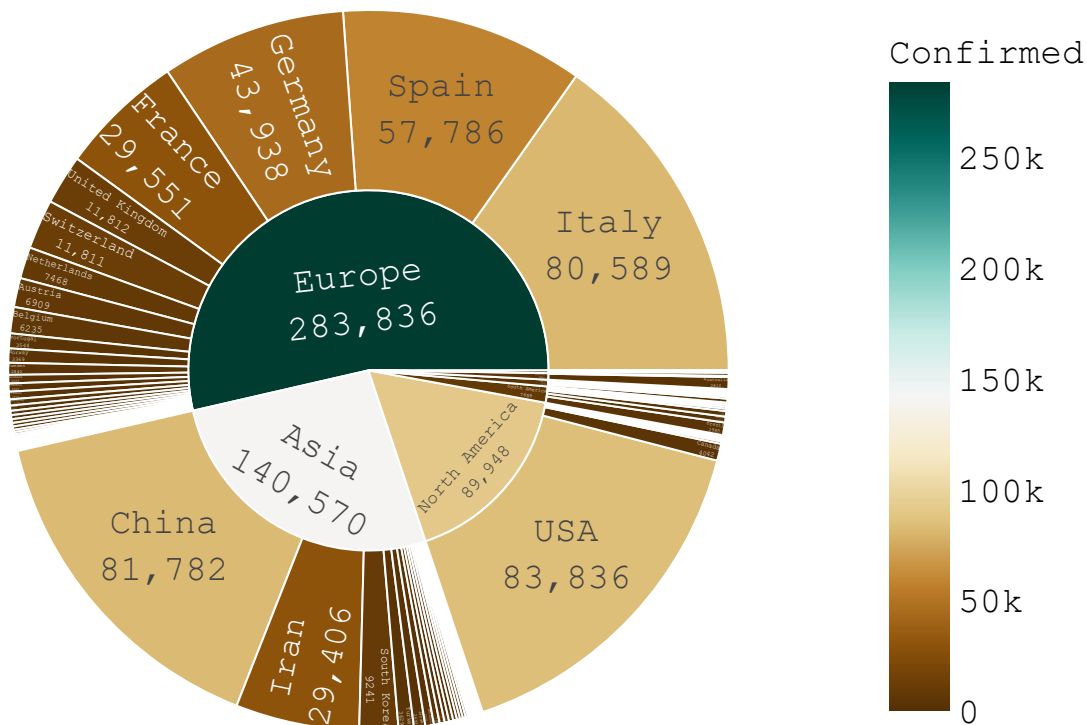
Confirmed cases country-wise and district-wise
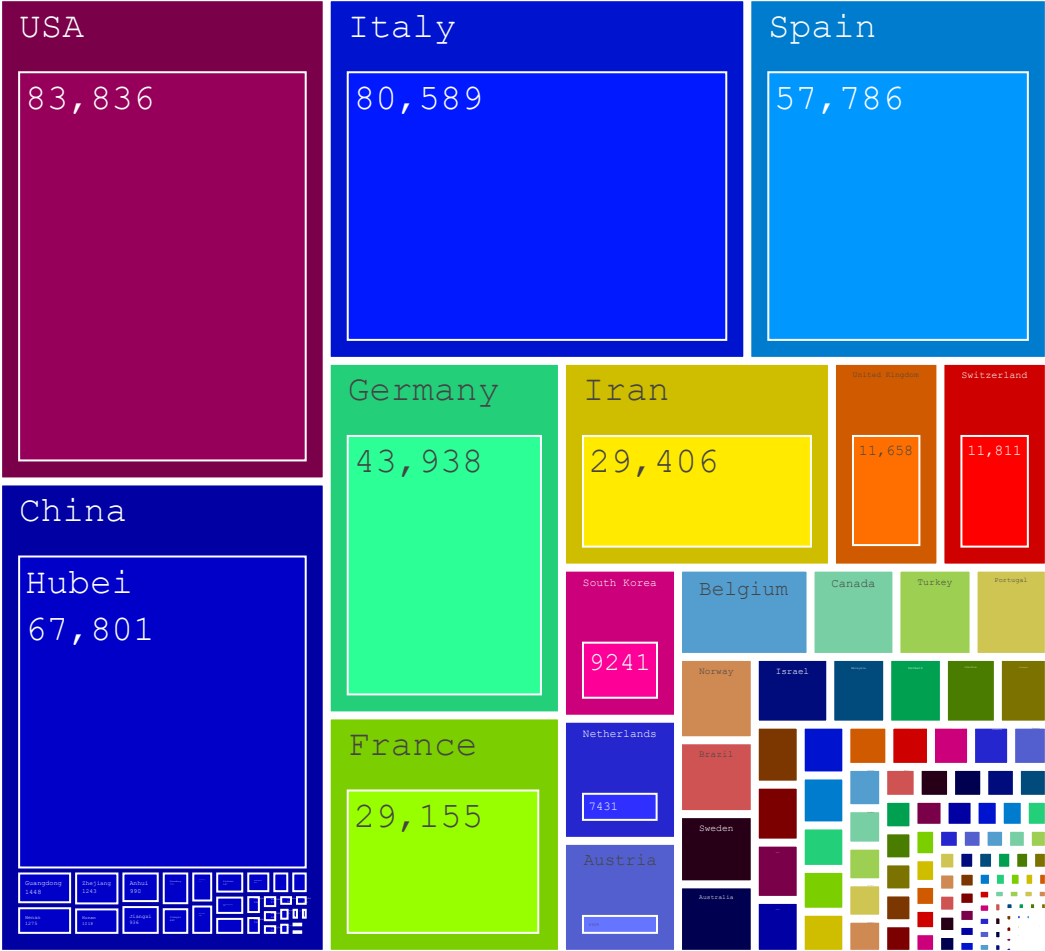
Spread of cases and shift of epicentre of COVID-19

The COVID-19 outbreak started in China but in due course of time around March 2020, Europe became the pandemic epicentre. The same is depicted using an animated visualization which shows how the total number of cases spiked all of a sudden in Europe.
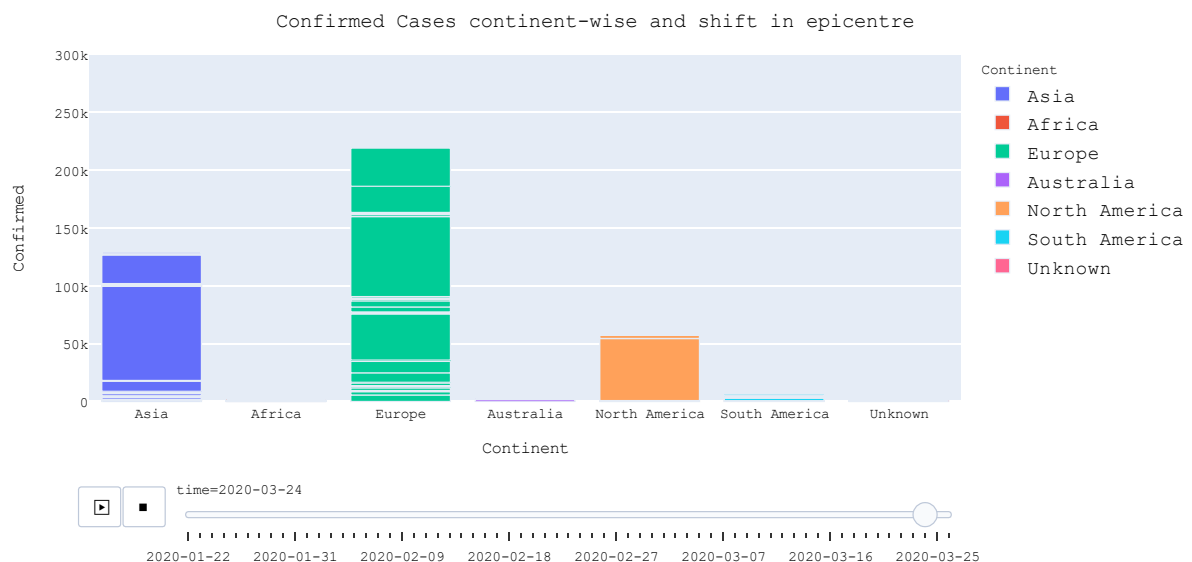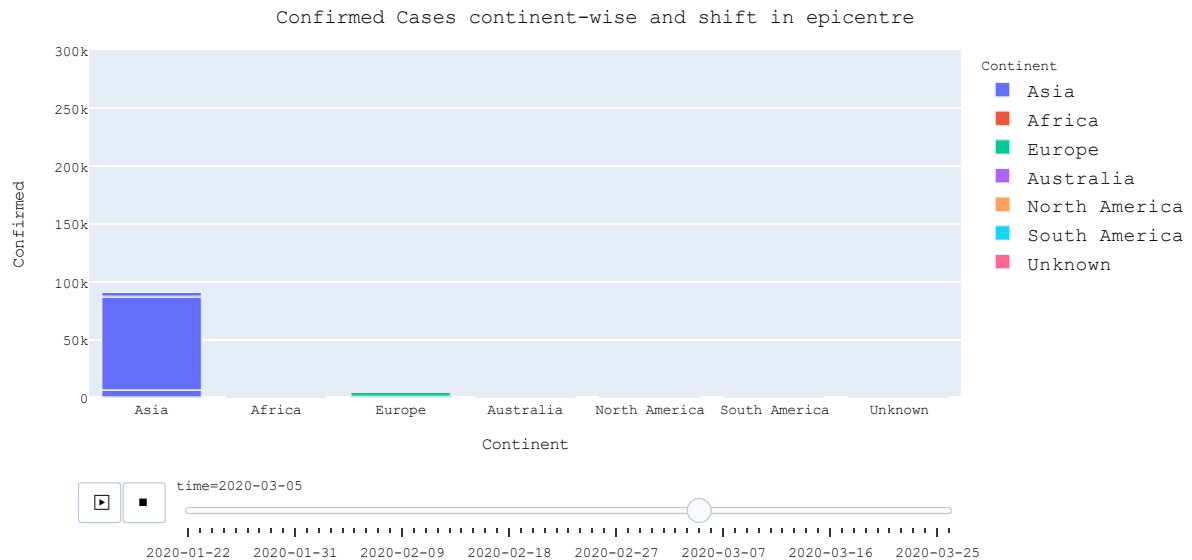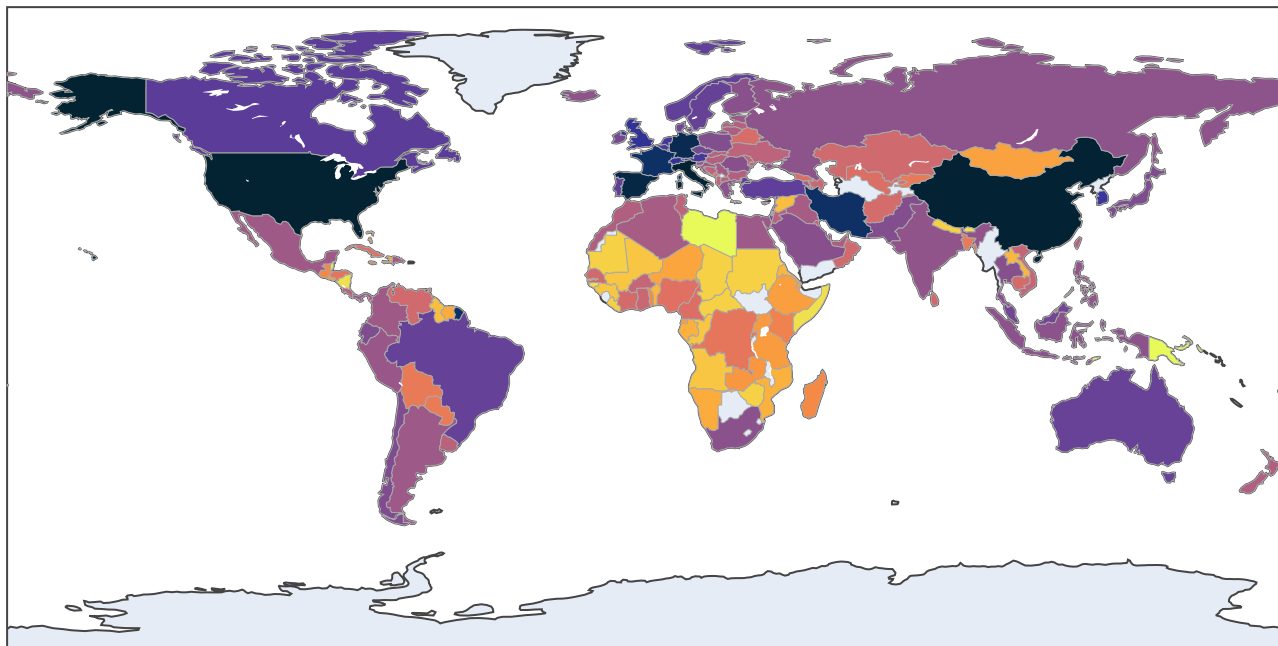
World-wide spread over time

time=2020-01-22

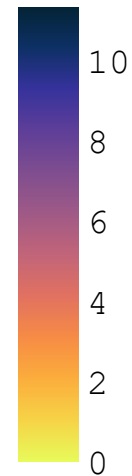2020-01-22 2020-02-02 2020-02-13 2020-02-24 2020-03-06 2020-03-17
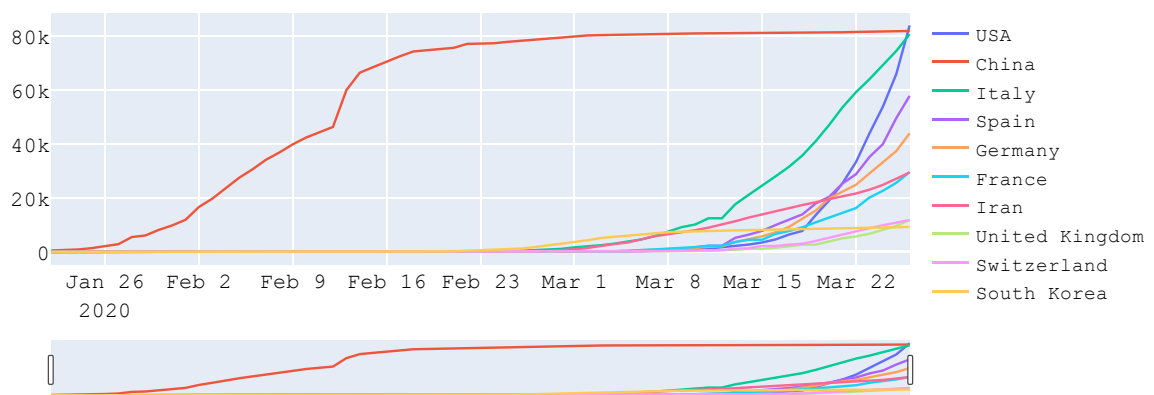
Confirmed cases all over world

Trajectories of most affected countries

Below visualisations shows the trajectories of confirmed cases in top 10 affected countries. The curve flattened for China due to lockdown imposed. The plots also reveal trajectories for Italy and US are steeper than of China.

Trajectories of confirmed cases in most affected countries

Trajectories of confirmed cases in most affected countries
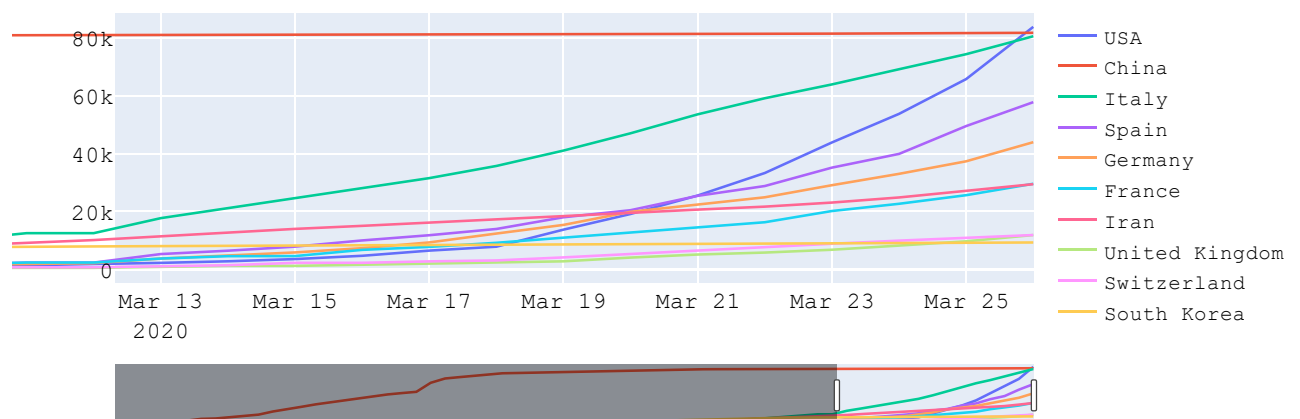
Comparison between top 3 affected countries

Comparison between China, Italy and USA

* All measurements are in logarithmic scale