

# Timeseries analysis of COVID-19 outbreak, progression and predicted end

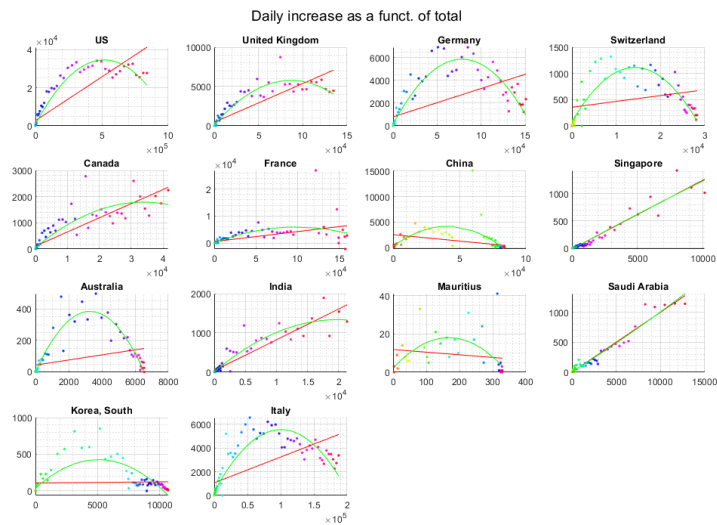
Written by D.S.Jokhun on 2020.03.21

The data has been provided by johns hopkins csse

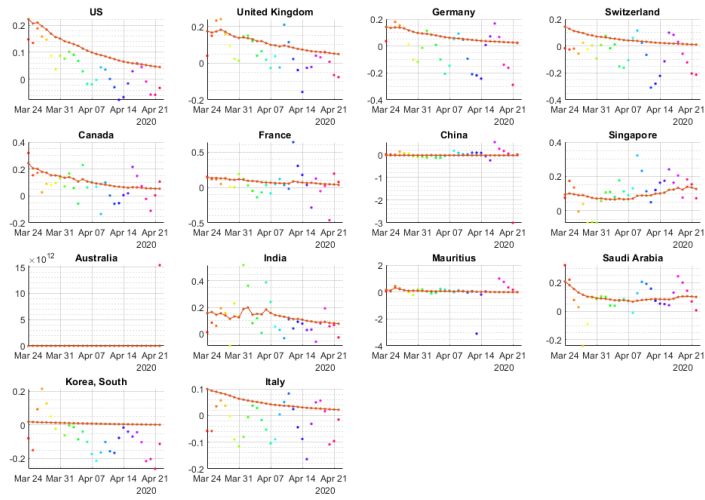
- Forked from <https://github.com/csseisanddata/covid-19.git>

DailyReportGenerator

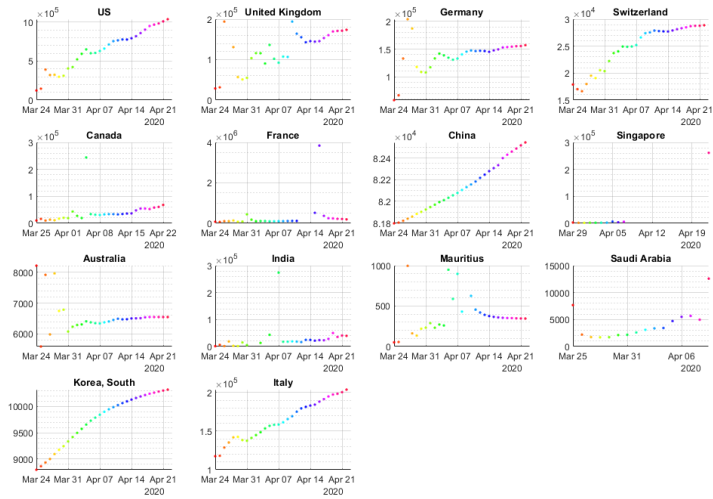
```
Data_StartDate = datetime
22-Jan-2020
Data_EndDate = datetime
22-Apr-2020 00:00:00
Starting parallel pool (parpool) using the 'local' profile ...
Connected to the parallel pool (number of workers: 8).
```



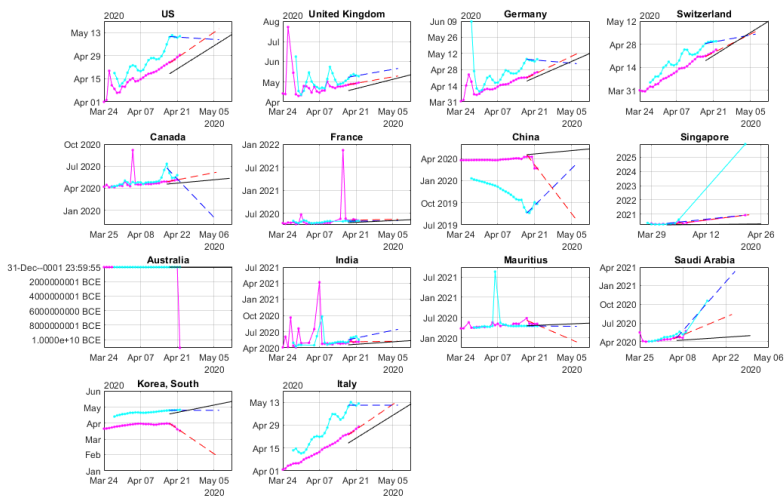
Gradient of Daily increase v/s Total



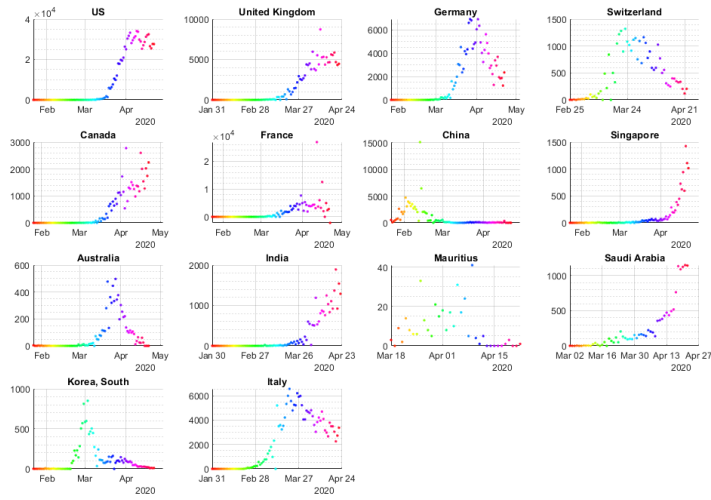
Eventual No. of cases (predicted by parabola)



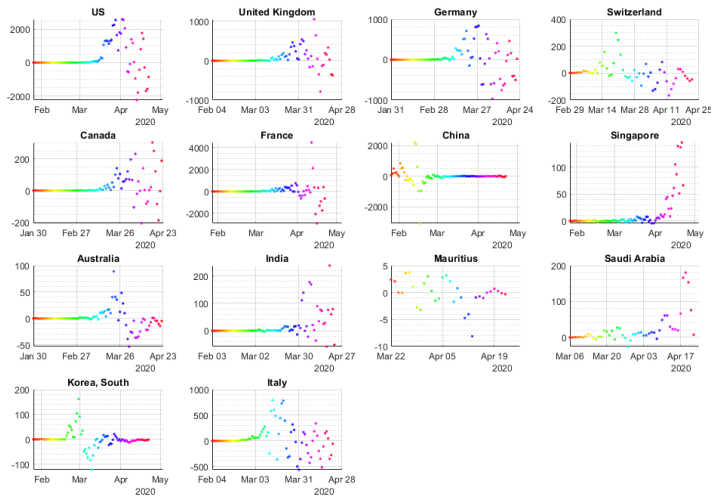
Predicted End Date\_



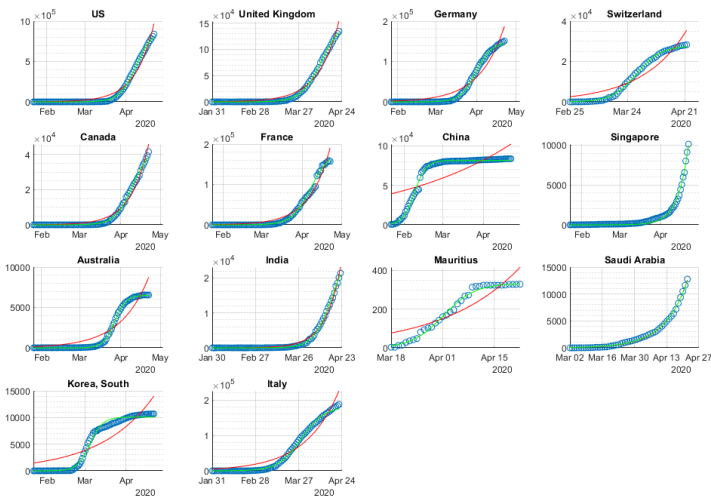
Daily Increase



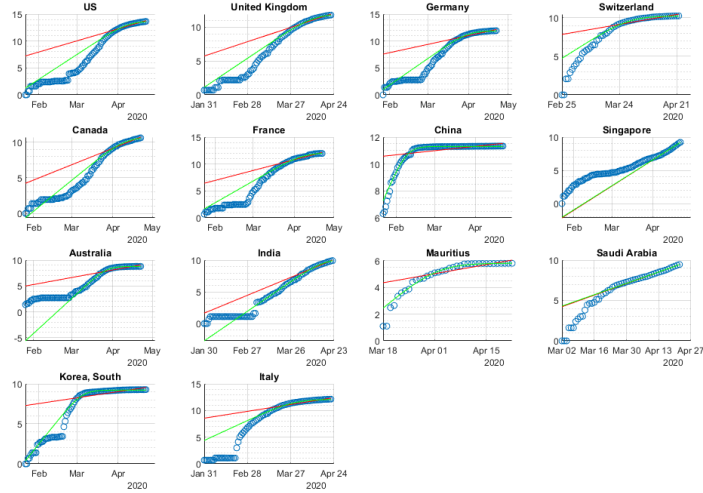
Gradient of Daily Increase



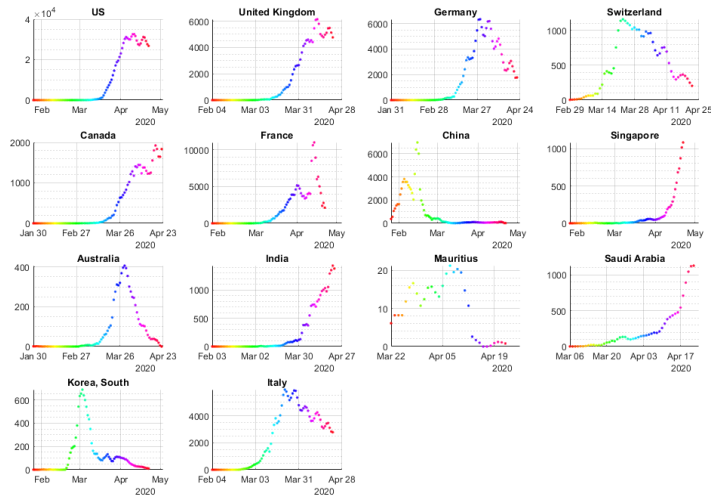
Total No. of cases



Log of total number of cases (exponent v/s time)



Gradient of total number of cases



Goodness of Fit - Exponential and Sigmoid

