

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

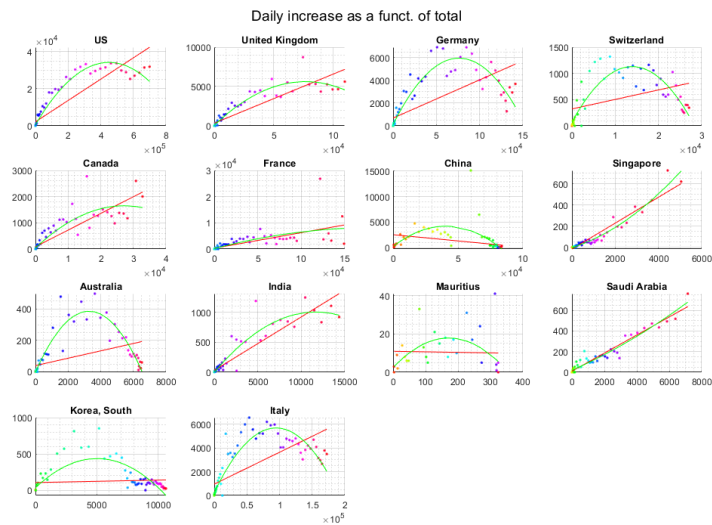
Written by D.S.Jokhun on 2020.03.21

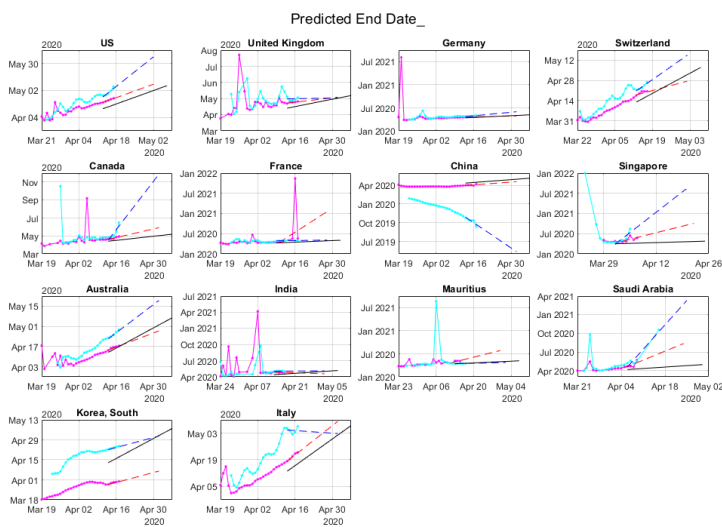
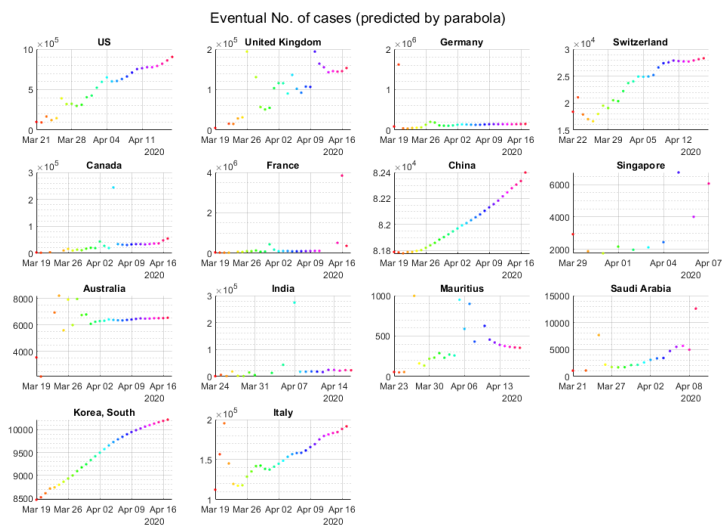
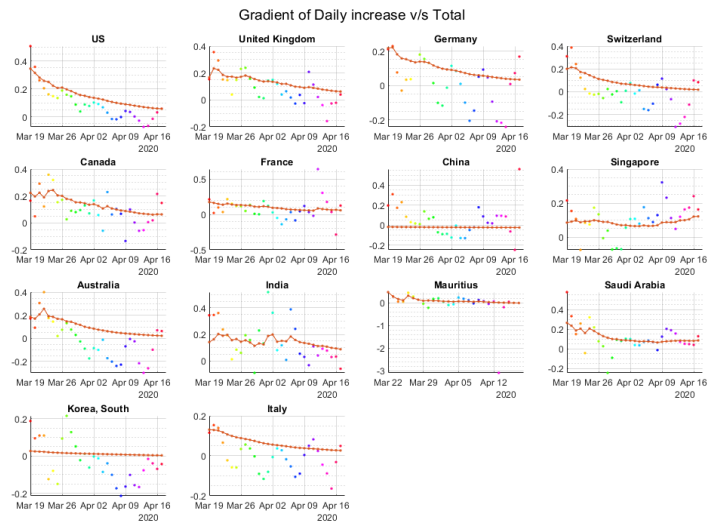
The data has been provided by johns hopkins csse

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

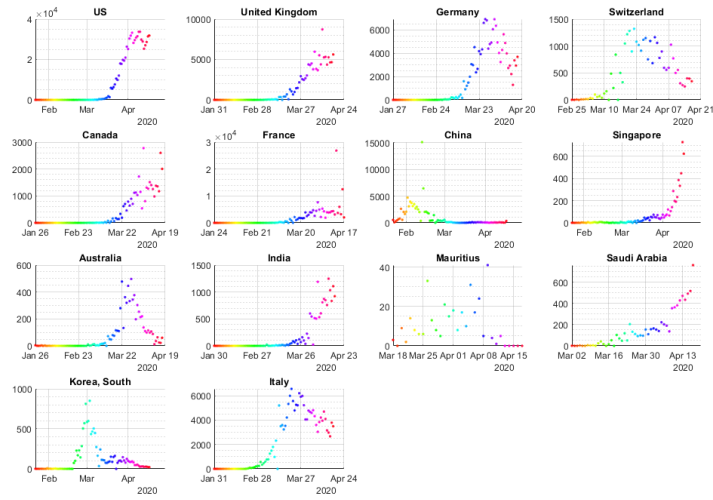
DailyReportGenerator

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

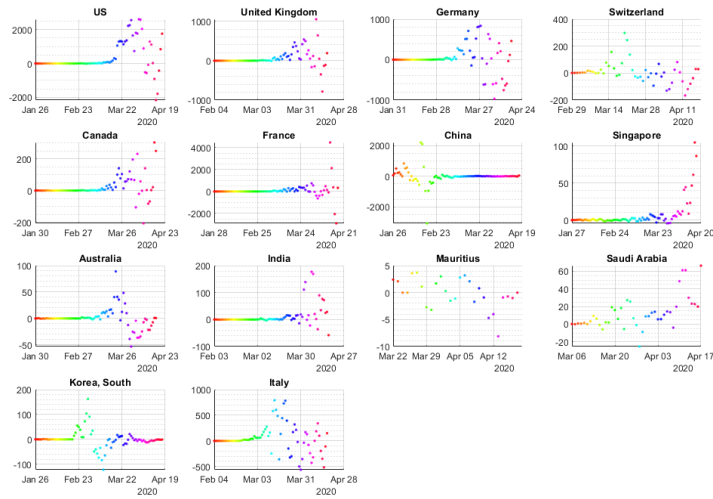




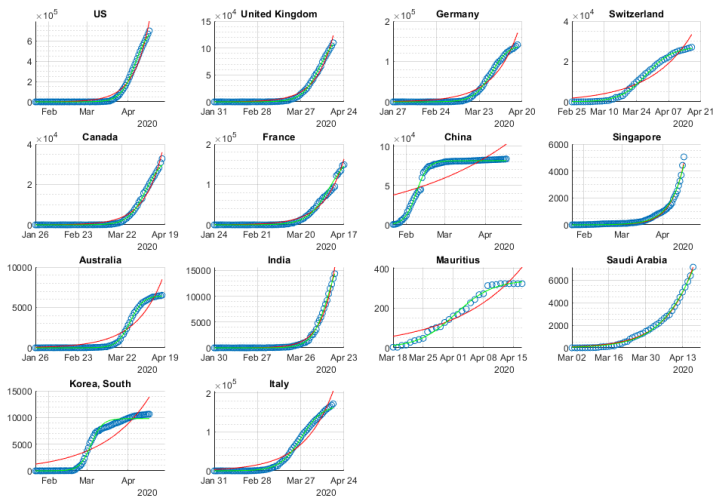
Daily Increase



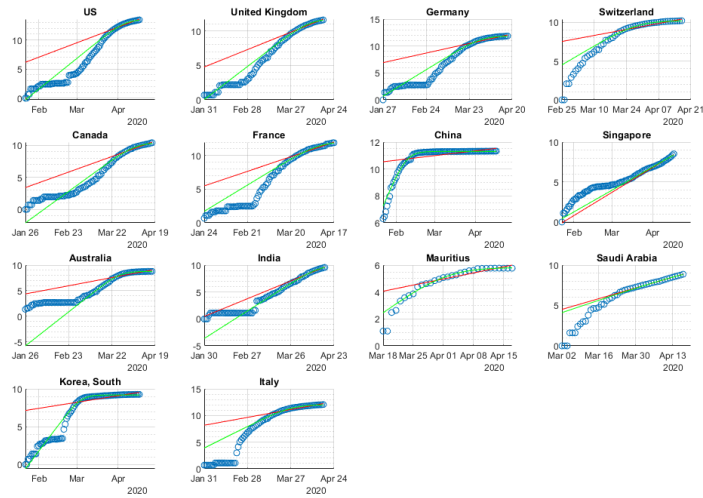
Gradient of Daily Increase



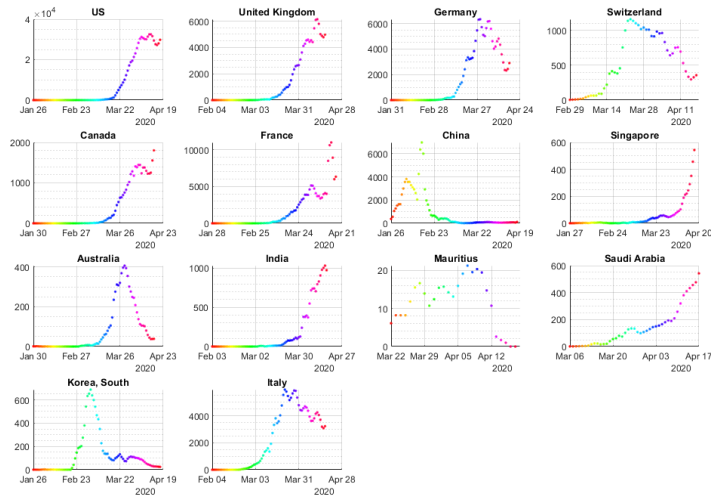
Total No. of cases



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



Gradient of total number of cases



Goodness of Fit - Exponential and Sigmoid

