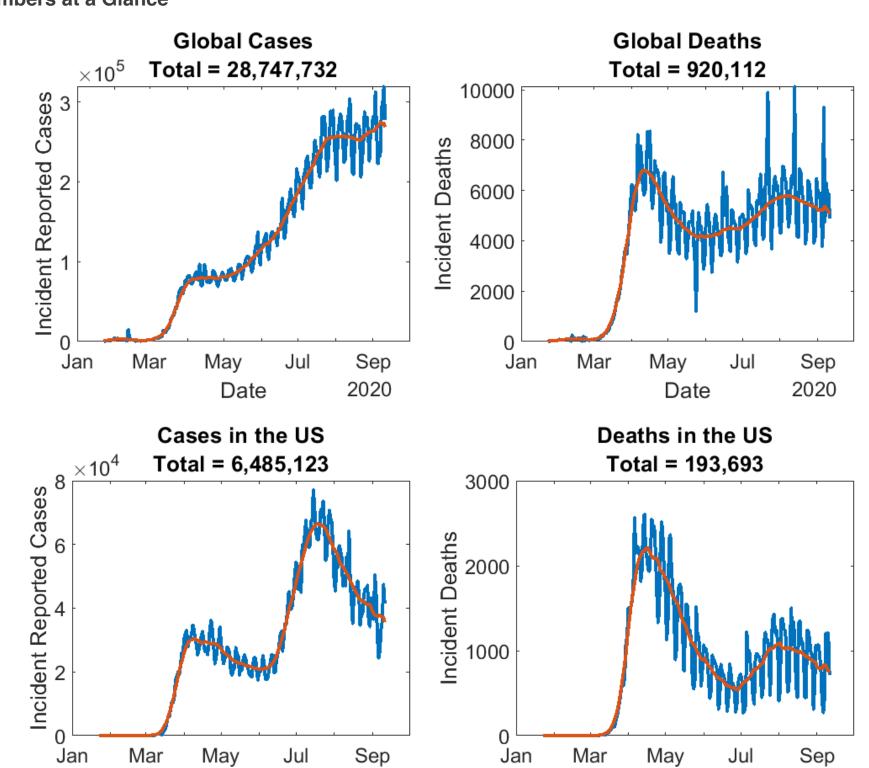
## The Numbers at a Glance



**COVID-19** on the Map

Which regions are seeing an increase in new cases and which ones are seeing a decrease? In the following maps, the size of the bubble represents the number of reported cases in the region (country or county). The orange colored bubbles represent an increase in the weekly number of new cases. The blue colored bubbles represent a decrease in the weekly number of new cases.

2020

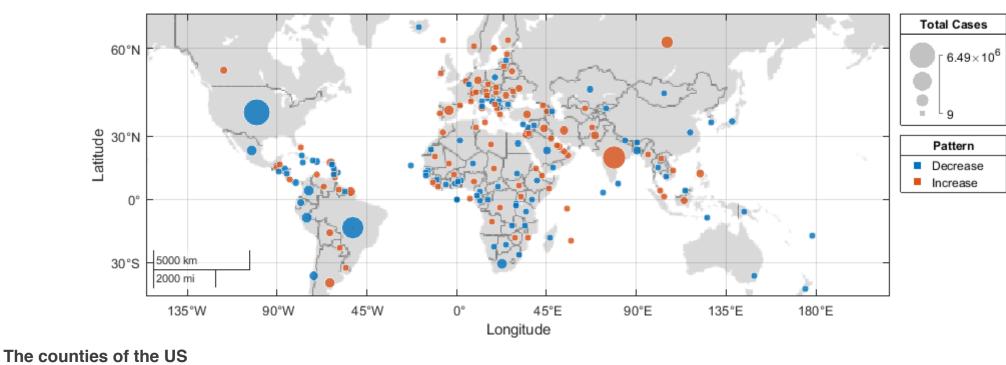
**New Cases** 

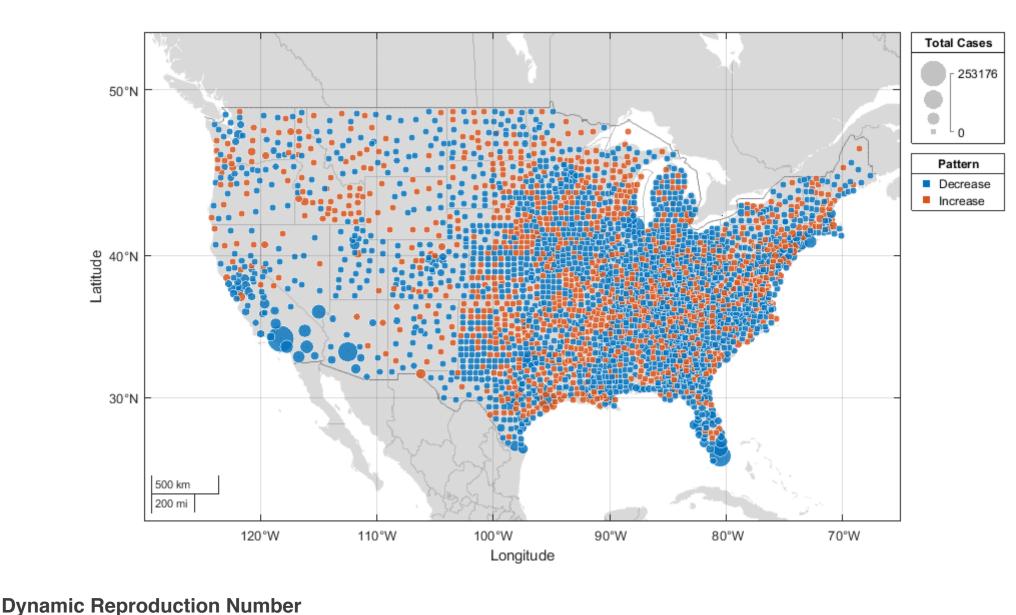
Date

2020

Date

The World





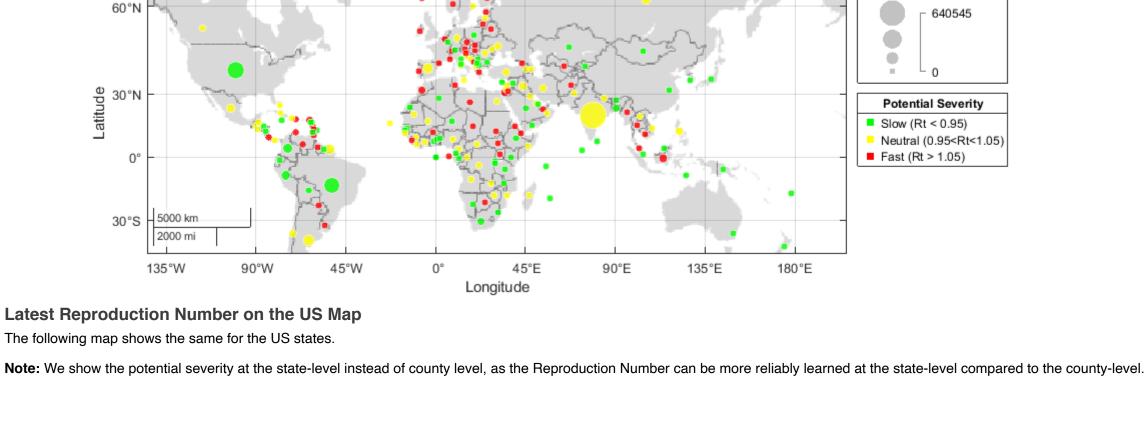
rise quickly if each infected individual were to create more than one infections, i.e., Rt > 1. On the other hand, if each infected individual creates less than one infection on an average. i.e., Rt < 1, the epidemic will slow down and die out. Note: Rt is "learned" from a model. Therefore, the numbers you see here may differ slightly from those shown by other sources due to difference in modeling techniques. **Latest Reproduction Number on the World Map** 

The Dynamic Reproduction Number (Rt) measures the potential speed of the epidemic. It measures the average number of new infections created by one infected individual. An epidemic will

The following map shows the potential severity in all the countries, measured in terms of where the latest Rt value stands for each country. In addition, the size of the bubbles represents the number of new cases in the last week.

A red bubble is likely to expand, while a green bubble is likely to shrink in the near future.

The ideal scenario should be a small green bubble, suggesting that the epidemic is close to disappearing. On the other hand, the worst scenario would be a large red bubble, which would indicate that even though a large number of new cases have been seen recently, this number is likely to further increase.



2

0

2020-03-15

2020-03-22

**Reproduction Numbers of US States Over Time** 

2020-03-29

2020-04-05

2020-04-12

week implies that if the trends were to continue, the epidemic would have slowed down.

A large red bubble is the worst case, which is expected to lead to large number of deaths.

130°W

120°W

110°W

100°W

Longitude

2020-04-19

2020-02-03

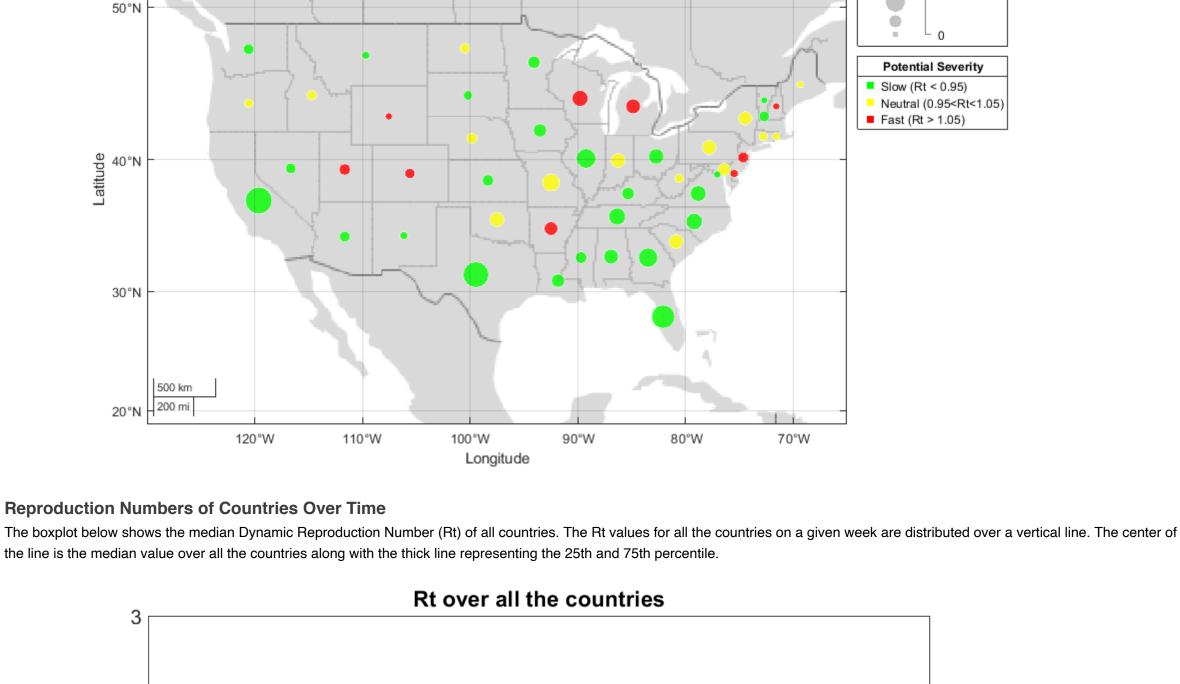
2020-05-10

2020-05-17

2020-05-24

2020-05-31

**New Cases** 23619



¥

2020-06-21

The boxplot below shows the median Dynamic Reproduction Number of all US states along with the thick line representing the 25th and 75th percentile. A value of Rt below 1 on a given

2020-06-28

2020-07-05

2020-07-12

2020-07-19

2020-08-02

2020-08-09

2020-08-16

2020-08-23

2020-09-06

2020-09-13

•

180°E

**Expected Fatality** 

Medium (2% - 4%)

Low (< 2%)</li>

High (> 4%)

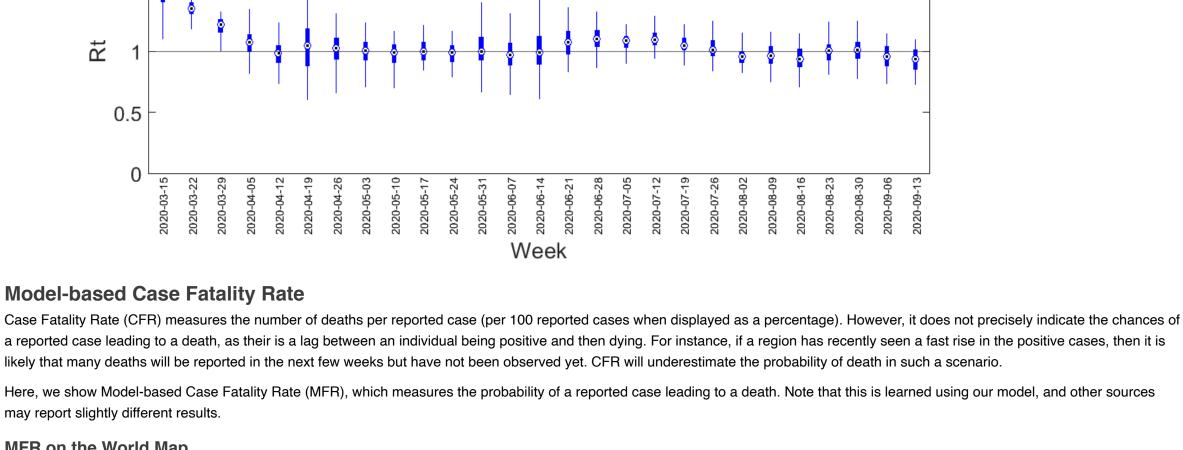
2020-06-14

Week

Rt over all states in the US

2020-06-07

2 1.5



may report slightly different results. MFR on the World Map

cases in the last week.

**New Cases** 6.49×10<sup>6</sup>

The following map shows the expected fatality measured in terms of where the latest MFR value stands for each country. In addition, the size of the bubbles represents the number of new

Latitude 0° 5000 km 30°S 2000 mi 135°W 90°W 45°W 0° 45°E 90°E 135°E Longitude



90°W

80°W

70°W

60°W