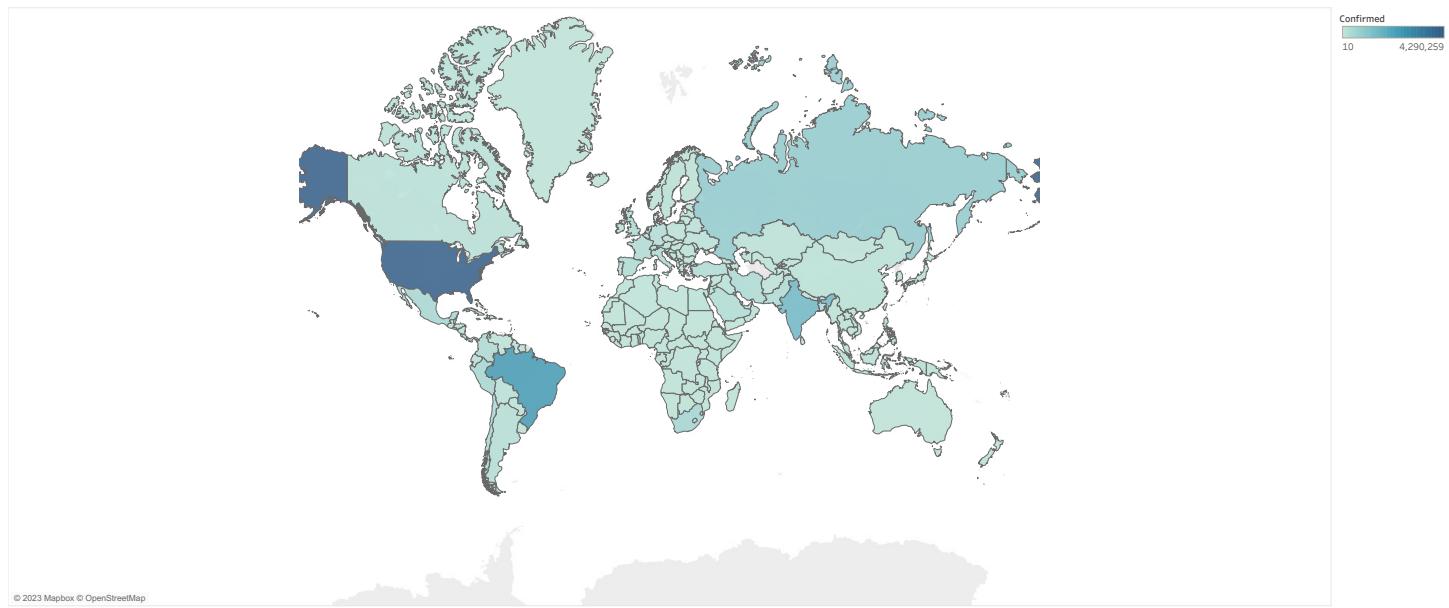


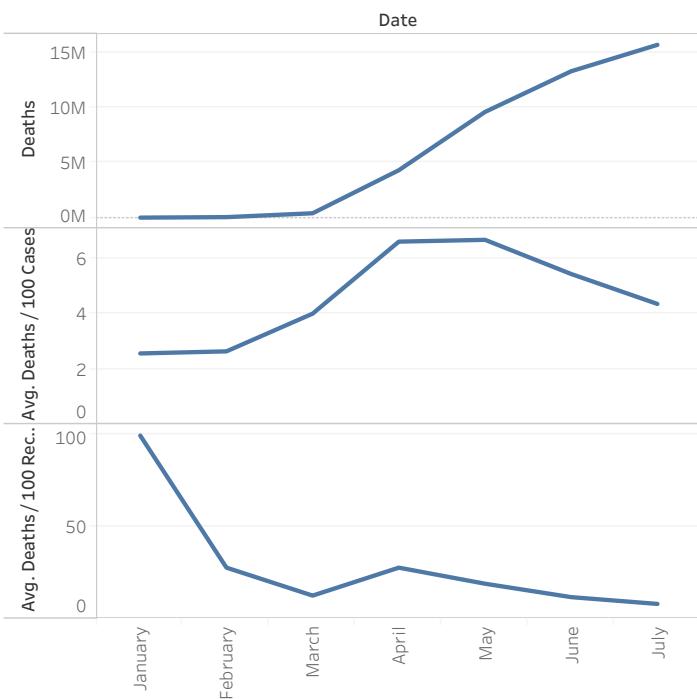
## The World Wide Spread of Covid-19

Presented By: Thi Le

From the capital of China's Hubei province, Wuhan, the world was forever changed beginning in the year 2020. The spread of a new coronavirus named Covid-19 shocked the world with its rampant transmission rate and no effective vaccination or treatment. The purpose of this analysis is to observe the early world cases of escalated Covid transmission starting on Jan 22, 2020, to July 27th, 2020, then highlight areas of significance.

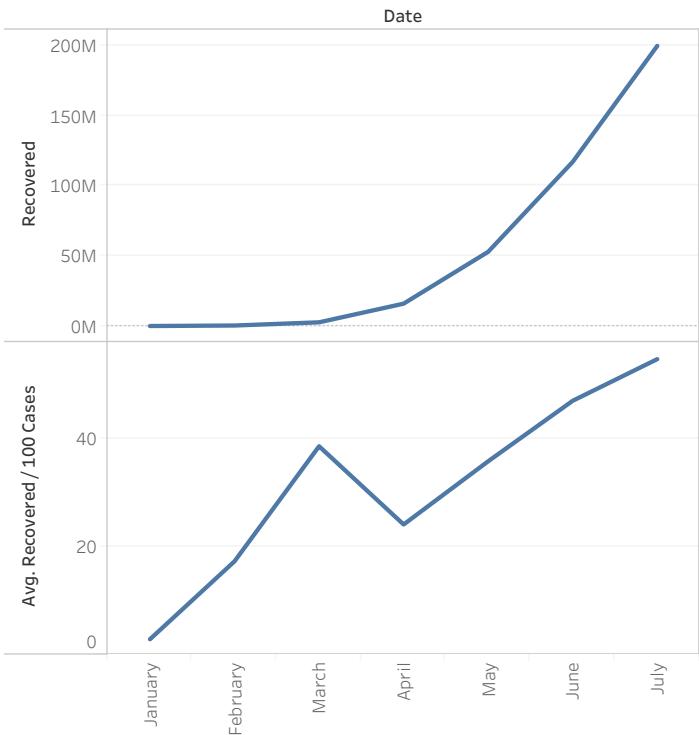


## Total Deaths Vs. Avg. Deaths/100 Cases Vs. Avg. Deaths/100 Recovered



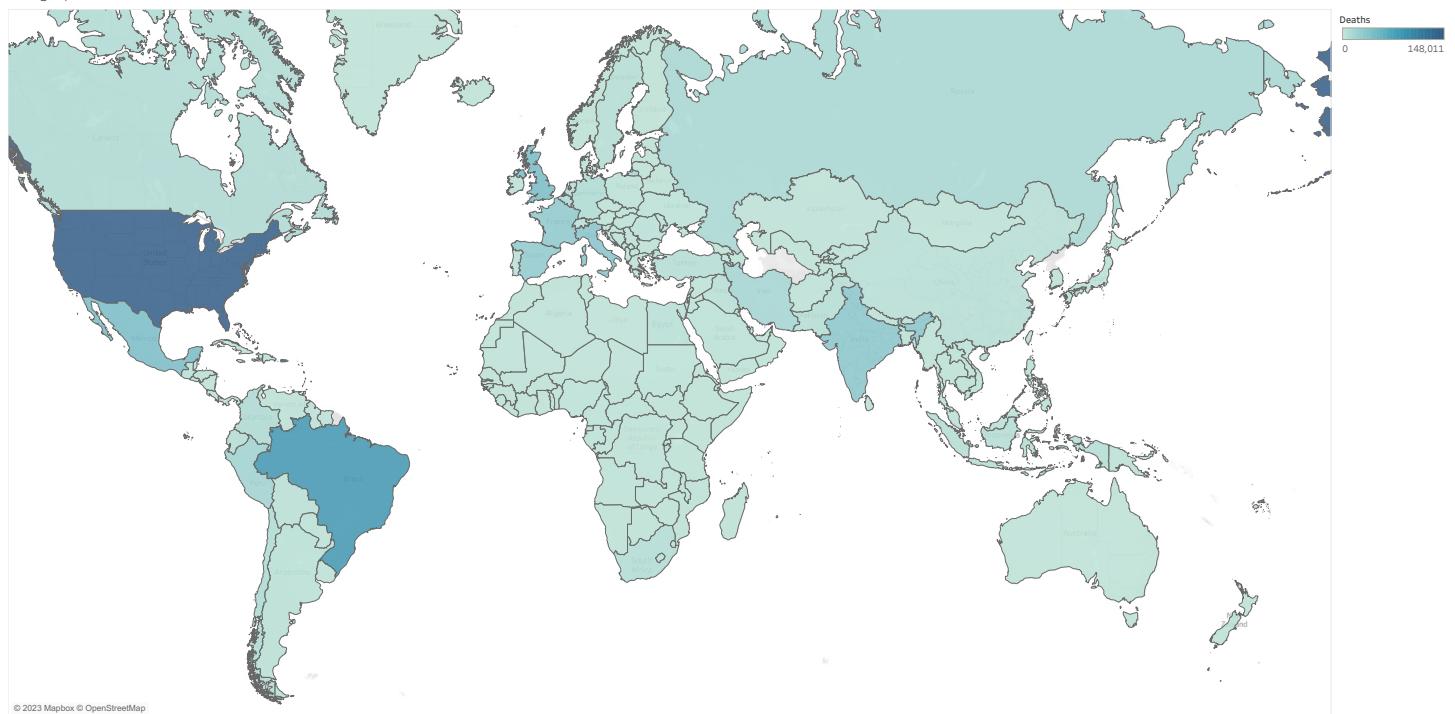
Looking at the total amount of deaths, there is a drastic increase in [March \(397,601\)](#) and [April \(4,311,214\)](#) by 984%, before illustrating signs of decline starting in May. Similarly, the average deaths per 100 cases increased between March and April ([maxing at 7 deaths/ per 100 cases](#)) before plateauing and gradually decreasing. On the other hand, the average deaths per 100 recoveries substantially decreased during the early months of [January \(99\)](#) and [February \(28\)](#) by 71.7%, before ending at an all-time low of [8 deaths per 100 recoveries](#).

## Total Recovered Vs. Avg. Recovered/100 Cases

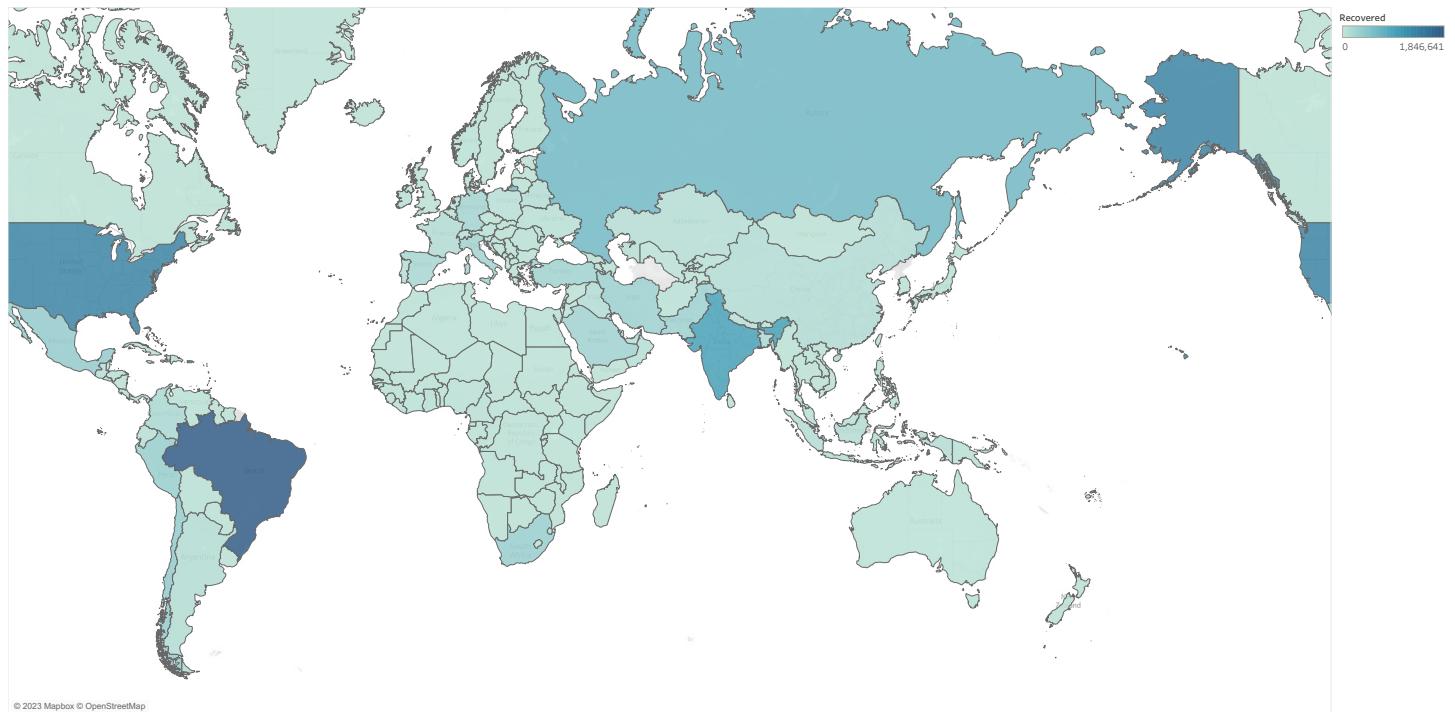


The number of recovered cases exponentially increased starting the month of [March](#) from [2.6 Million to 15.9 Million in April](#), which is a staggering [511% increase](#). However, when looking at the average recoveries per 100 cases, there was a [decrease of 62.5% from March \(39\) to April \(24\)](#). Overall, both illustrations show a collective increase between cases of recoveries.

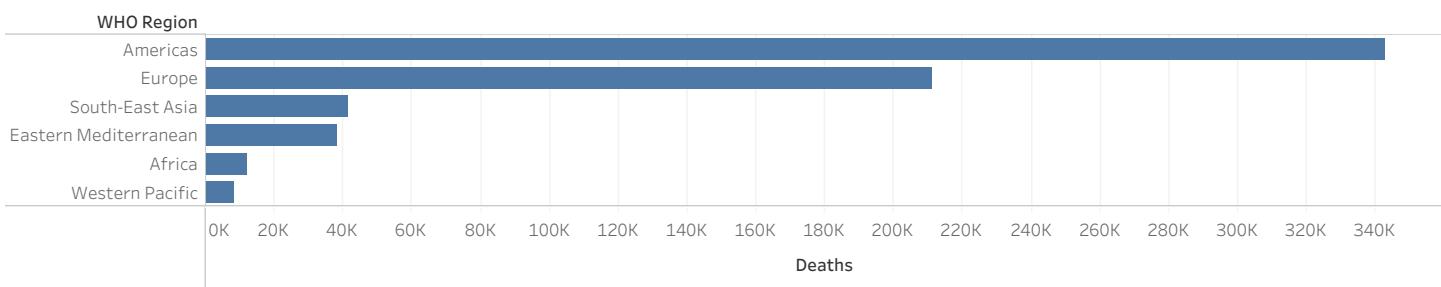
Geographic Distribution of Total Deaths



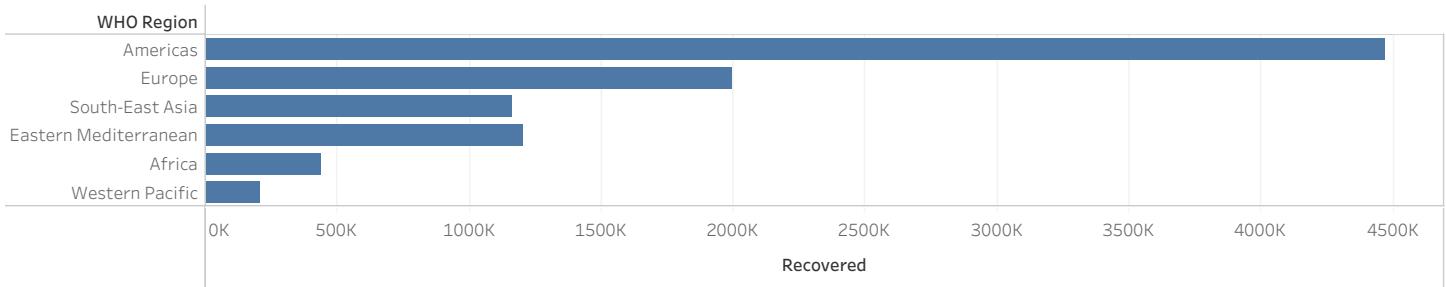
Geographic Distribution of Total Recovered



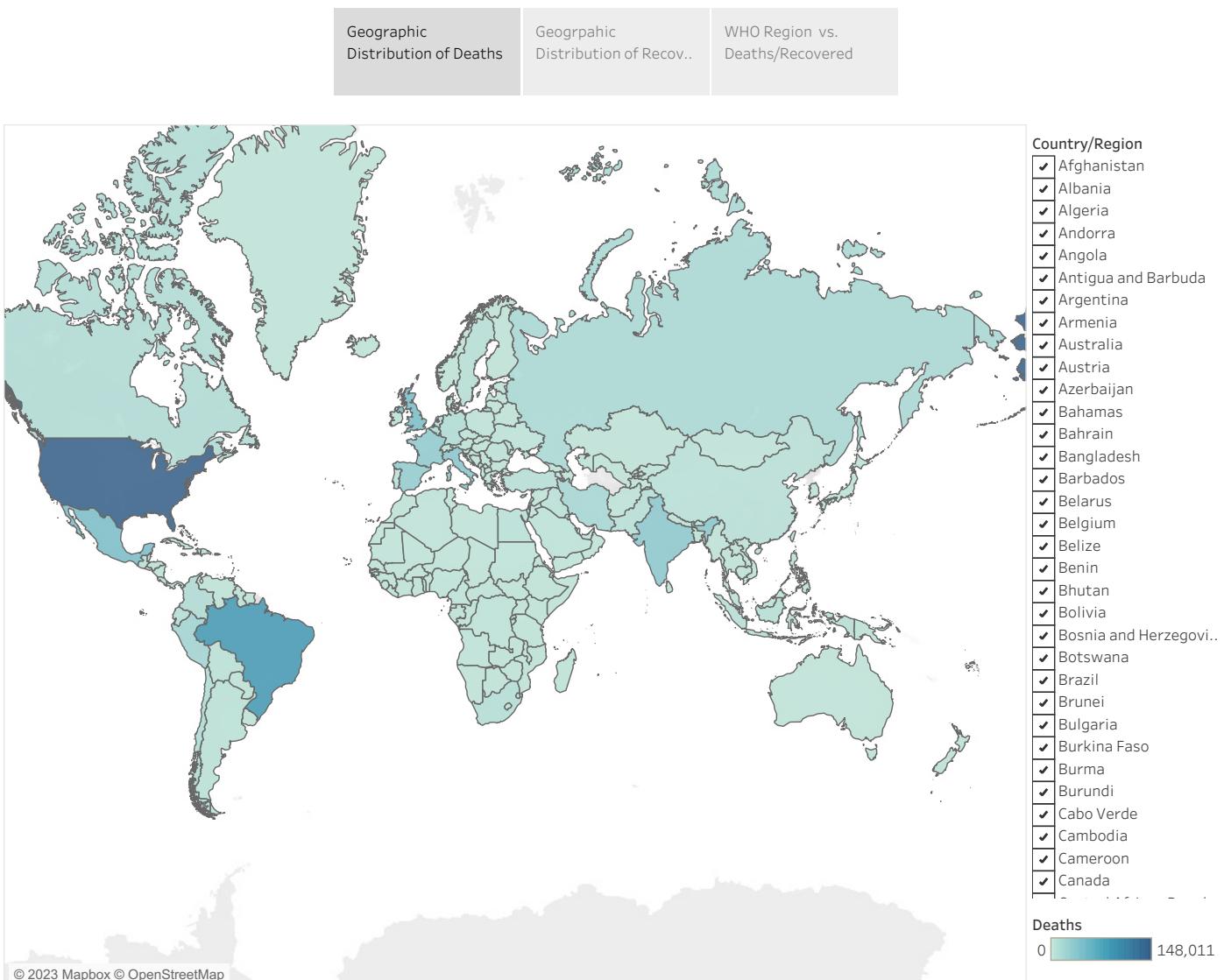
## WHO Region Vs. Death/Recovered Cases



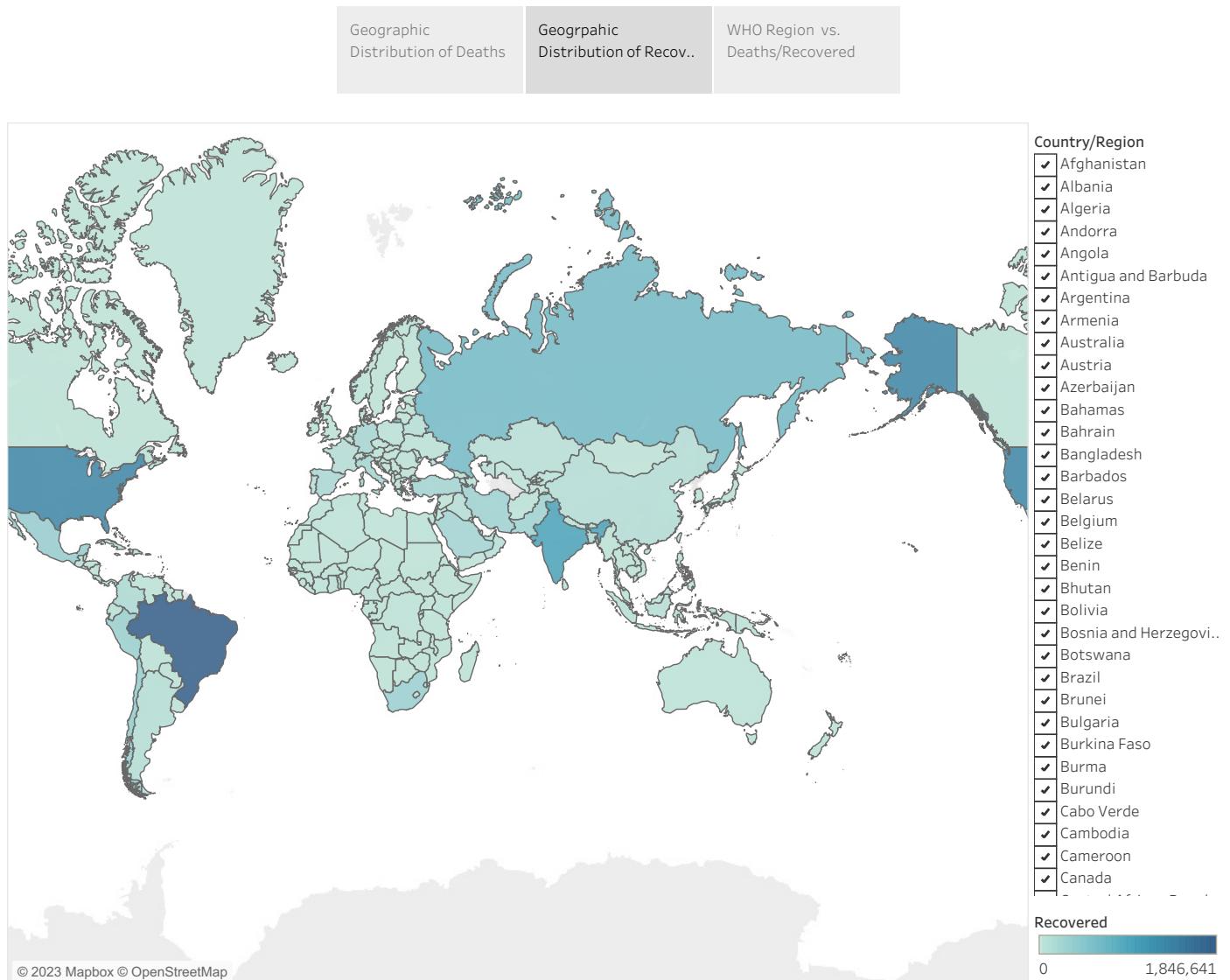
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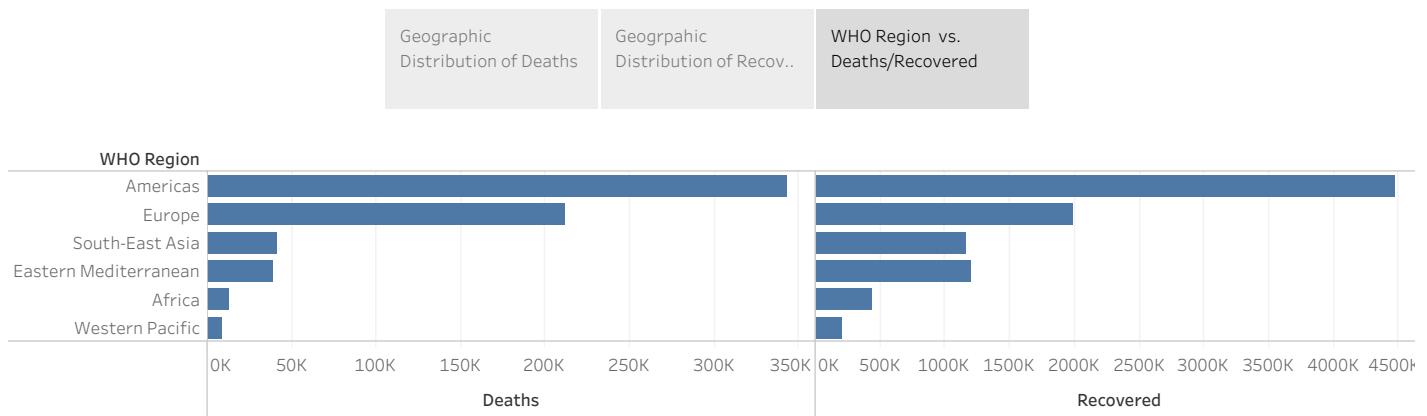
Between the total number of death and recovered cases, it is clear that the **United States and Brazil** hold the highest values in both categories. This is surprising given the origins of the Covid-19 virus and that neither country is the largest in size. Regarding WHO Region, the **Americas and Europe** establish the highest death/recovered ratios.



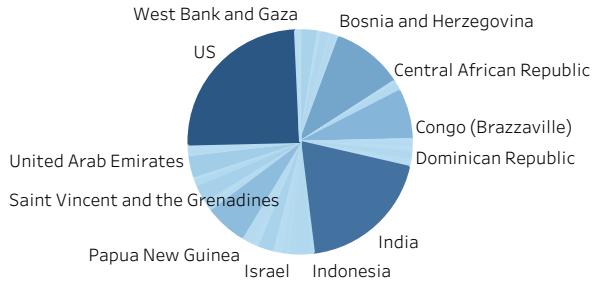
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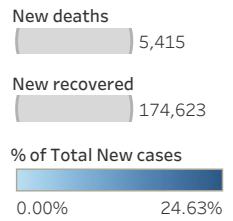
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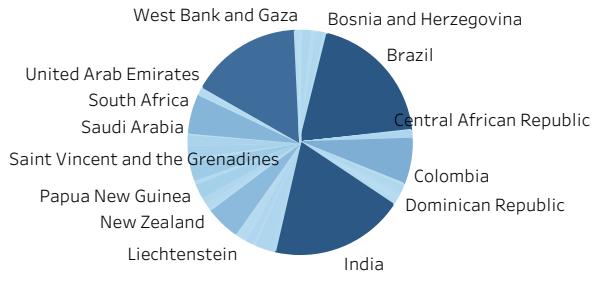
## Country/Region - Percent of New Total Cases



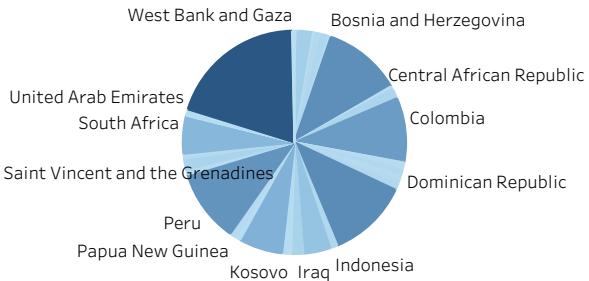
When reviewing the percentage of new cases, the [United States \(24.63%\)](#) is significantly in the lead for all instances. Even when separated by New Recovered Cases and Death Cases, the United States is one of the top contributors with [16%](#) and [19.84%](#) respectively.



## Country/Region - Percent of New Recovered Cases

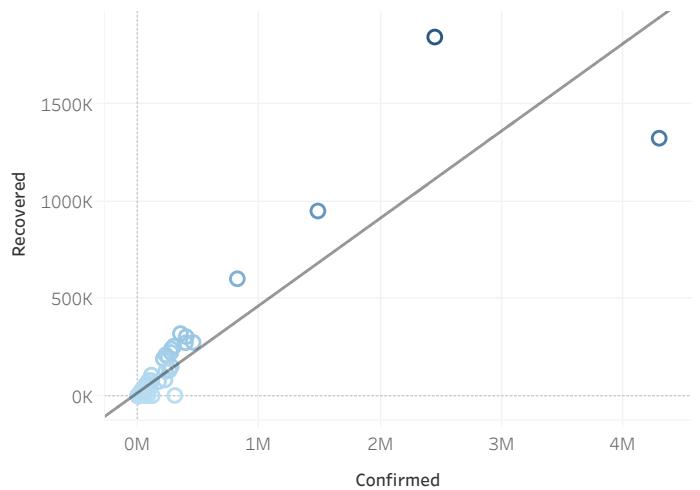


## Percent/Region - Percent of New Death Cases

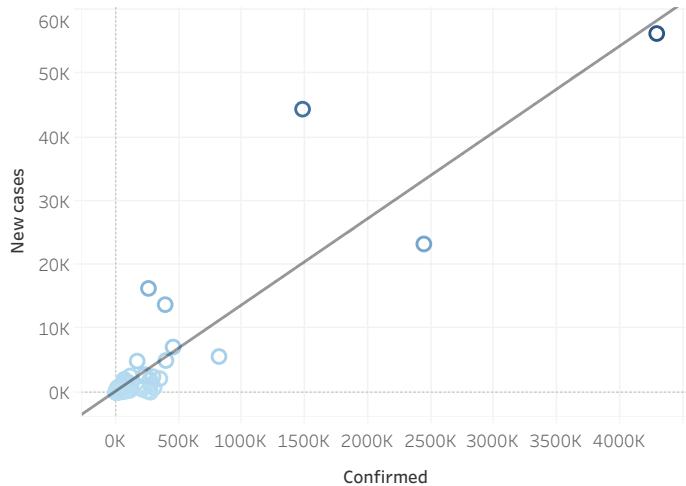


Overall, it is observed that the [United States](#) is clearly the most significant country/region impacted by drastic confirmed new cases, deaths, and recovered cases. To further determine the relationship between the number of covid-cases and the most impacted region, a correlation analysis was performed with R-Squared values showing stronger positive values of [.82](#), [.82](#), [.87](#) and P-Values lower than [0.05](#).

### Recovered Cases Vs. Confirmed Cases



### New Covid Cases Vs. Confirmed Cases



### Death Cases Vs. Confirmed Cases

