

# Covid in the US vs The World 2020-2022



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The background is a light blue gradient. It is decorated with several stylized virus particles, each with a central red dot and blue triangular spikes. There are also large, soft, white clouds at the bottom. Small blue and red dots are scattered throughout the upper half of the image.

# Predicted Results

I thought that China would have the highest infection rate and the most Deaths.

# 2-24-2020

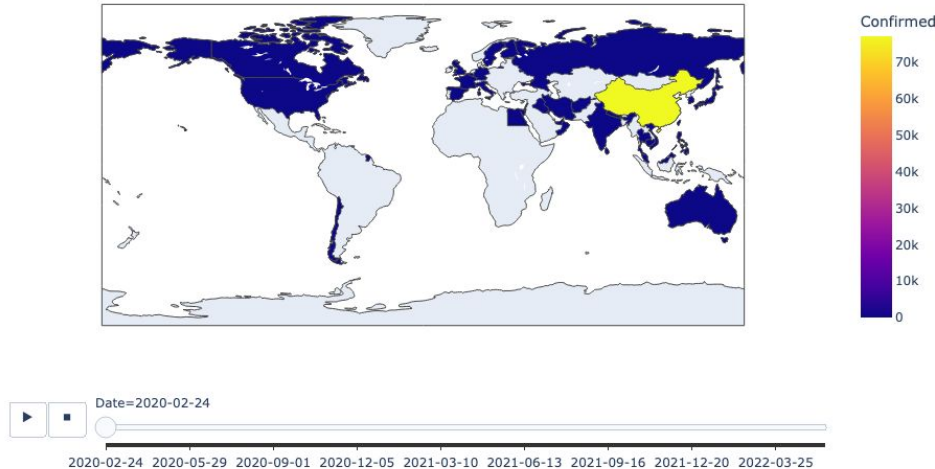
## The start of covid

With my starting knowledge of Covid I thought this is how Covid-19 would look like. US having just 16 confirmed cases.

## China

And China with the majority. Obviously where Covid originated would start off with the largest number of confirmed cases at 77k on 2-24-2020

Spread of Covid-19 around the World



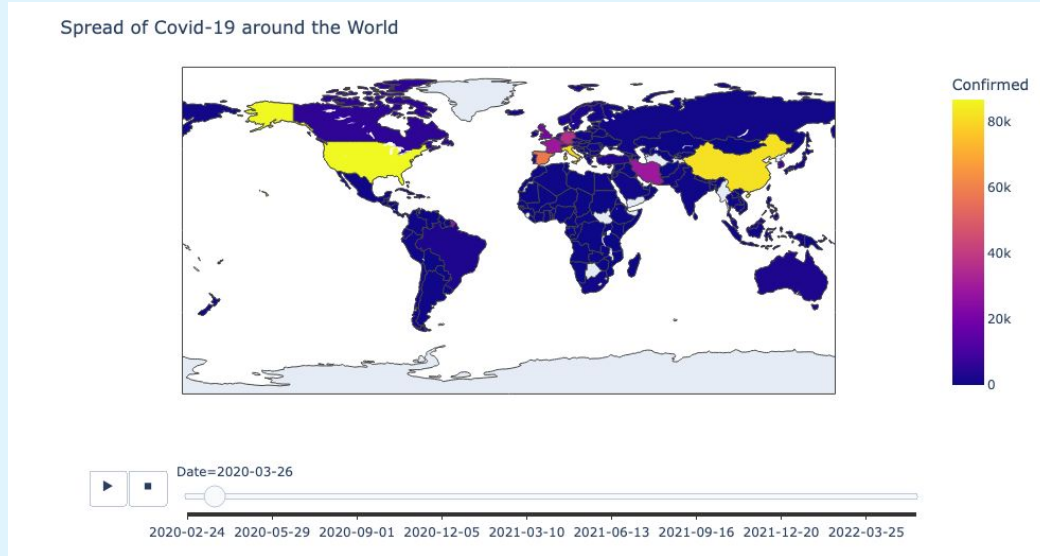
# 31 Days Later

**I was quickly  
proved wrong**

Confirmed cases quickly spread across the world and grew rapidly in the US with 86k confirmed cases.

**China**

By contrast had 81k confirmed cases at this same time



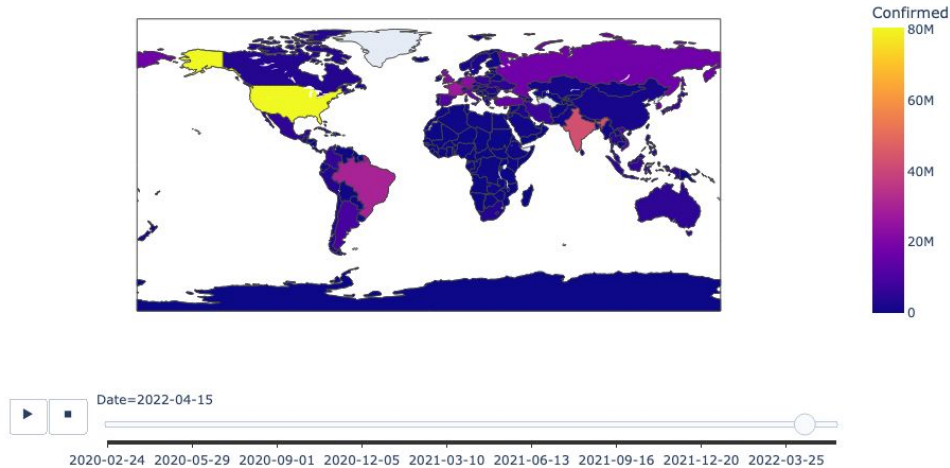
Then two years later

**80,000,000**

Confirmed Cases in the US

# 4-15-2022

Spread of Covid-19 around the World



By mid April there was  
**80.61m confirmed cases in the US.**

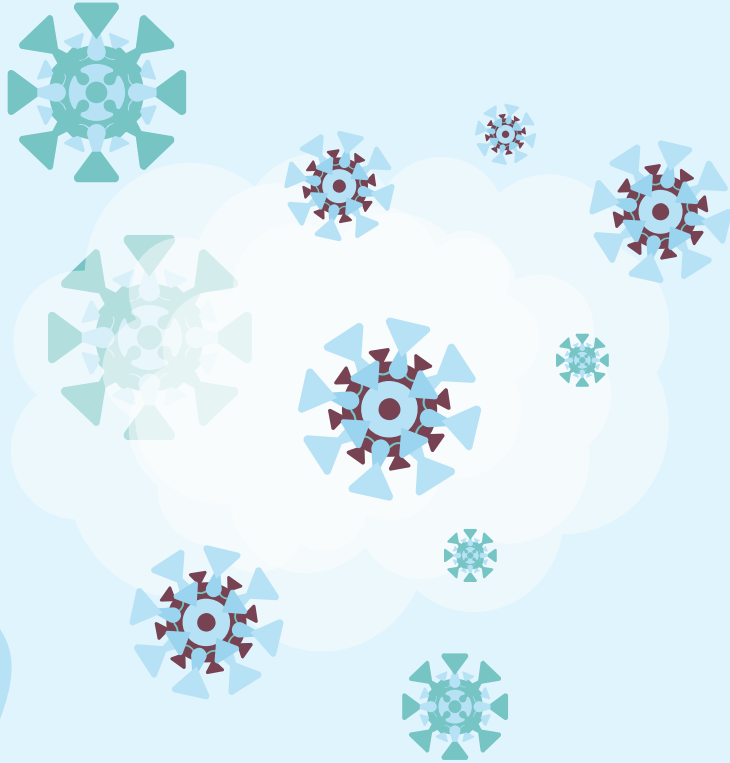
With China at **1.75m confirmed cases.**

Others that stand out are

- **Brazil 30.24m**
- **India 43.04m**
- **France 27.76m**
- **Germany 23.37m**

# Deaths From the Virus

I wanted to dig a little deeper to find out how the death rates compared to how the virus spread at the same time.







# 2-24-2020

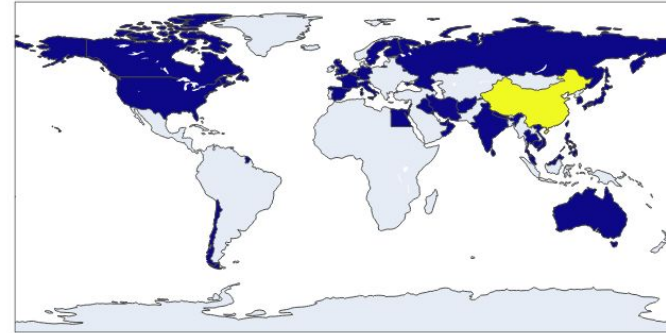
## Back to the start of covid

The US has no confirmed Deaths from Covid-19

### China

On the other hand has 2,595 deaths due to Covid-19 by this same time

Deaths from Covid-19 around the World





## Comparing 31 days later

The US now has 1,783 confirmed deaths

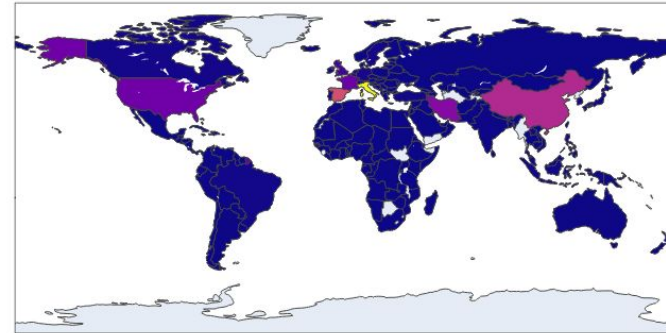
### China

Now has 3,291 deaths.

- Italy - 8,215
- Spain - 4,365

# 3-26-2020

Deaths from Covid-19 around the World



## The US

Now has the highest death rate at 988,558 compared to the 80m cases at this same time

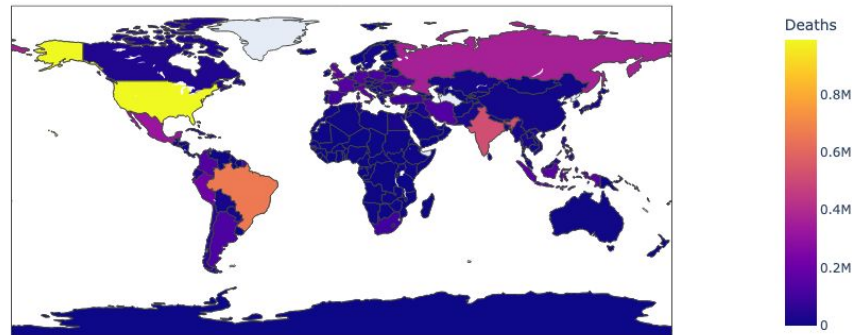
## China

Has 80k deaths compared to the 1.75m cases

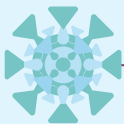
- Brazil - 662k
- India - 521k
- Russia - 365k
- Mexico - 323k
- France - 145k
- Germany - 132k

# 4-15-2022

Deaths from Covid-19 around the World

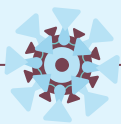


# Next I wanted to look at the daily infection rate in the US over time



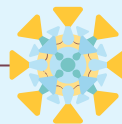
## Step 01

To find this I would look at confirmed cases per day



## Step 02

Then figure out the difference between each 24hr period



## Step 03

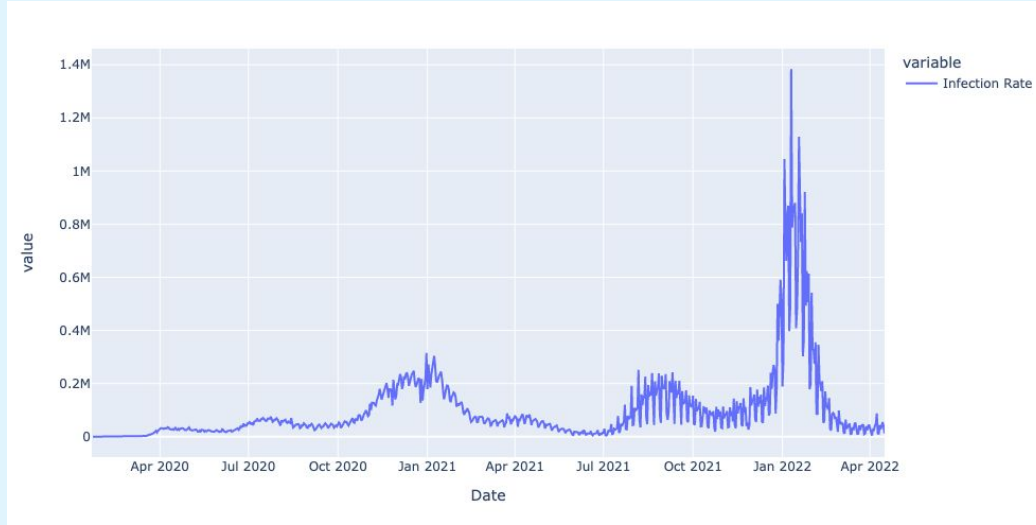
I then used this data to plot a line graph to find the infection rate

# Breaking Down Data

Here's a portion of my code I used to sort through the data tables and find the infection rate.

```
df_us = df[df.Country == "US"]  
df_us = df_us[["Date", "Confirmed"]]  
df_us["Infection Rate"] =  
df_us["Confirmed"].diff()  
px.line(df_us, x = "Date", y = ["Infection  
Rate"])
```

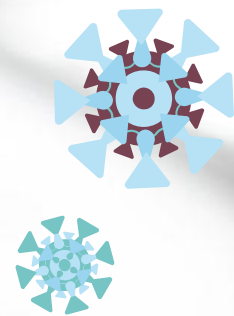
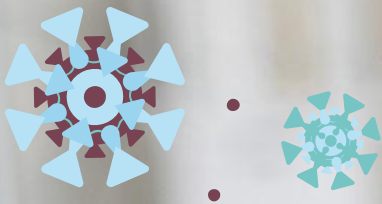
# US Infection Rate



The largest spike was on Jan 10th, 2022 with 1.38m.

But just as quick as it came it was gone.

It was surprising to see such a large spike toward the beginning of January 2022. This was due to the Omicron Variant of Covid-19.



**Why did Omicron spread so quickly?**

# Reasons

## Reason 1

Omicron Spread more easily than other Variants, bypassing immune systems

## Reason 2

The boosters didn't work well against this Variant

## Reason 3

Caused only mild symptoms

## Reason 4

Hospitalizations were down, causing more infected people to infect others

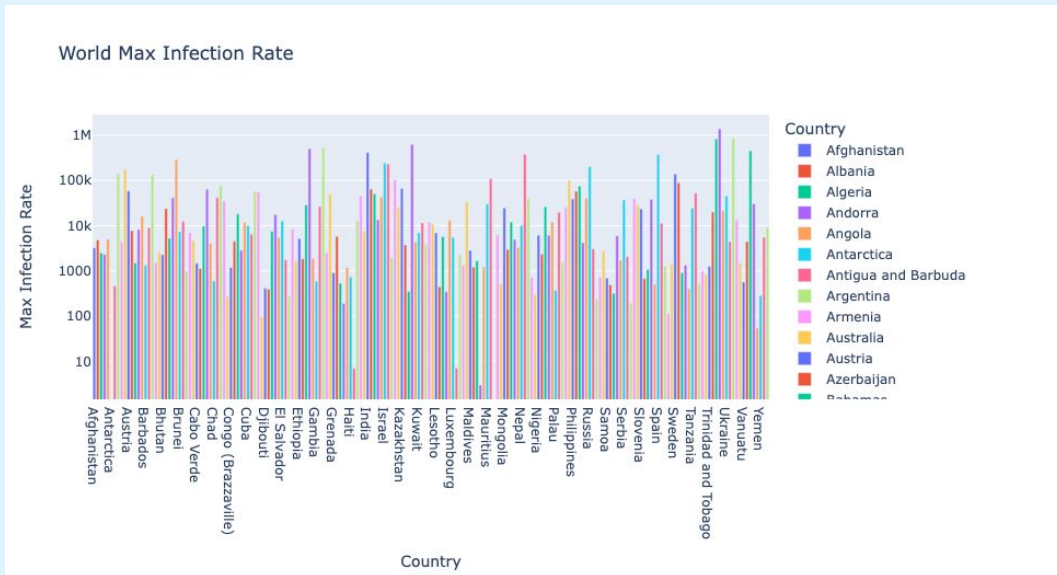


# The US

Leads the world  
in largest  
infection rate  
with 1.38m

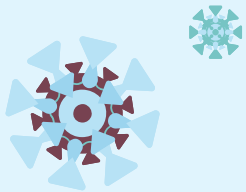
- UK - 848k
- Turkey - 823k
- S Korea - 621k
- Germany - 527k
- France - 503
- India - 414k

## World View 4-15-2022



## China

Only had an infection  
rate of max infection  
rate of 77k by  
comparison



# Thanks!

Do you have any questions?  
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