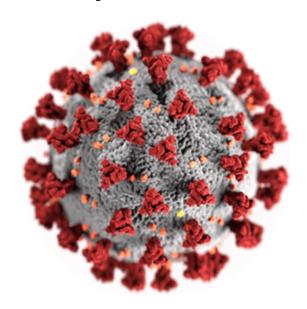
# **Covid-19 Live Update Data Visualization**



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#### 1. Intro

In this project I will Show the live covid19 results and data visualization cases in the world. I have found a package in R script. It's a documentation for package covid19.analytics version 2.0. This also loads and Analyzes Live Data from the CoViD-19 Pandemic. I will be using matrix and ggplot2, for data manipulation. Package obtain from, <a href="https://github.com/CSSEGISandData/COVID-19">https://github.com/CSSEGISandData/COVID-19</a>>

### 2. Pakages Required

In this project I will need to Install;

##Library

library(covid19.analytics)

library(dplyr)

library(ggplot)

library(lubridate)

library(ggplot2)

library(readr)

library(rio)

## 3. Objective

In this case scenario, we are going to see how many positive cases the United State has. Then we will see negative results. We will see deaths and recoveries. It will be displayed in plot points and visual graphs.

First we need to download csv. file from <a href="https://covidtracking.com/api/states/daily.csv">https://covidtracking.com/api/states/daily.csv</a> it gives live up date on covid19 patient.

This will adjust the Plot Viewer Margin

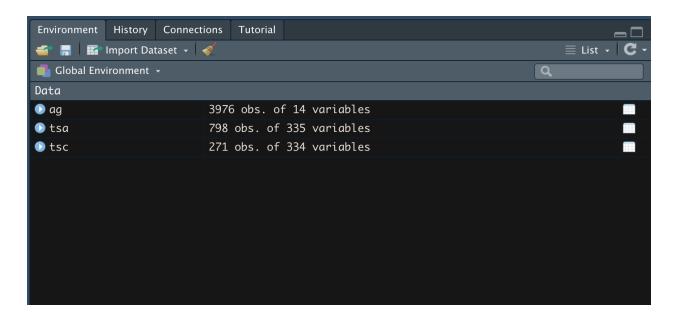
```
#Plot margins
graphics.off()
par("mar")
par(mar=c(1,1,1,1))
```

Then create data set:

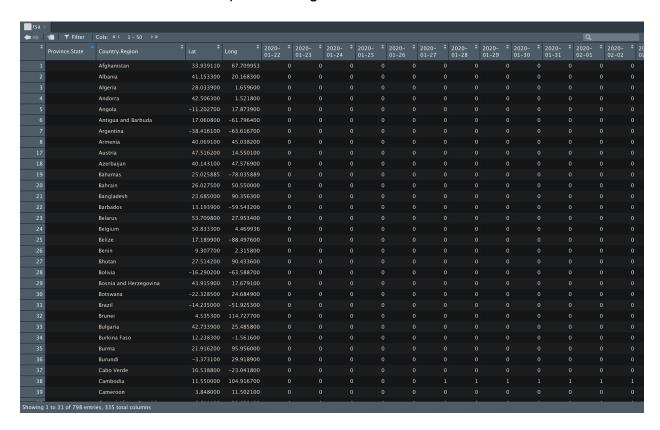
```
#create dataset
ag <- covid19.data(case = 'aggregated')
tsc <- covid19.data(case = 'ts-confirmed')
tsa <- covid19.data(case = 'ts-ALL')</pre>
```

This will create table for your dataset and import files from covid19.data

The result:



This will create table for example this is ag data is:



Now looking at the top 10 countries

if you type:

report.summary(Nentries = 10,

graphical.output = F)

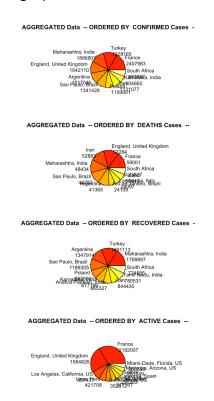
result: will be shown in terminal

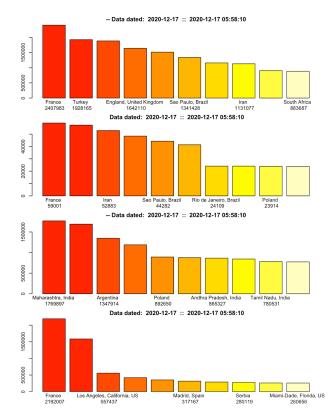
But,

report.summary(Nentries = 10,

graphical.output = T)

result: in graph.





In this graph it show:

Confirmed cases

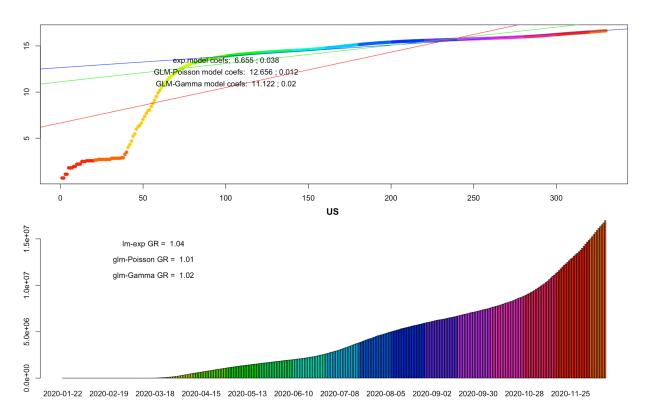
Death cases

Recovered cases

Active cases.

```
17 #total Cases in United States
18 tots.per.location(tsc, geo.loc = 'US')
```

#### This code will give you

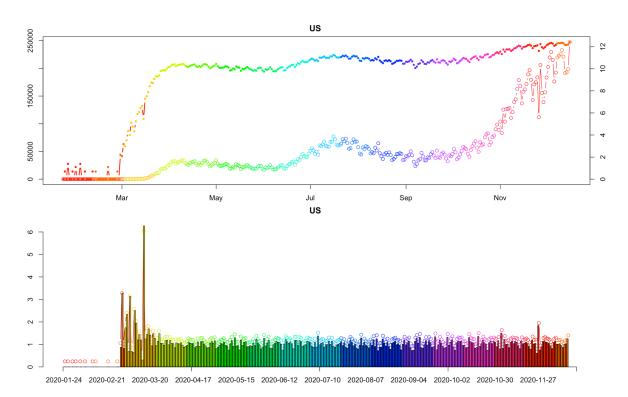


In this graph you can see in USA covid cases rising

```
18 tots.per.location(tsc, geo.loc = 'US')
19 #Growing cases in United States
```

In this code it will display live groth in USA

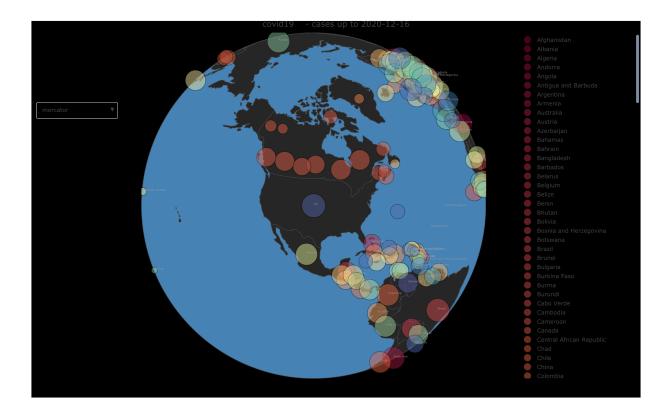
#### result:



To do an interactive live map for covid19 result type:

```
21 #live map where
22 live.map(tsc)
```

## result:



#### 4. Code

```
#Library
library(covid19.analytics)
#Plot margins
graphics.off()
par("mar")
par(mar=c(1,1,1,1))
#create dataset
ag <- covid19.data(case = 'aggregated')</pre>
tsc <- covid19.data(case = 'ts-confirmed')
tsa <- covid19.data(case = 'ts-ALL')
#top 10 countries that have most covid19 cases
report.summary(Nentries = 10,
         graphical.output = T)
#total Cases in United States
tots.per.location(tsc, geo.loc = 'US')
#Growing cases in United States
growth.rate(tsc, geo.loc = "US")
#live map where
live.map(tsc)
```

## 5. Summery

In conclusion R is a very easy software to use to see covid19 results live. Country by country, state by state, the results show deaths, active cases, and much more.