

GROUP 'A':

Natalio Altube

Tomás Lizarazo

Rosario Marianeschi

Elsa Toribio

COVID-19

August 2020 - The Bridge
INSTRUCTOR: Gabriel Vázquez Torres
gabriel@thebridgeschool.es

TEACHER: Clara Piniella Martinez
clara.piniella@thebridgeschool.es

GROUP PROJECT - AUGUST 2020

CONTENTS

In this 7-minute presentation, we'll show our Project based on the following tasks:

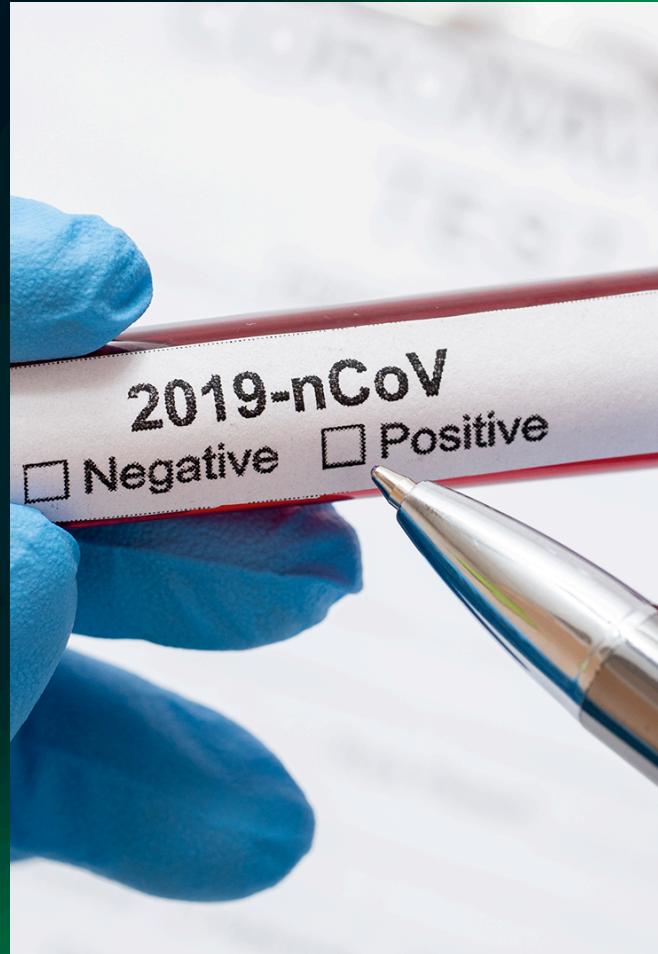
1. A group ID was generated as the “N” number: A137 (Letter plus the sum of all participant’s ages)
2. A token ID value was also created, called “S” number:
‘A249191580208185295299619560’
3. Out of the information in real time from <https://ourworldindata.org/coronavirus-source-data> , [‘https://covid.ourworldindata.org/data/owid-covid-data.csv’](https://covid.ourworldindata.org/data/owid-covid-data.csv) we created a final dataframe of ‘c_averages’ that represents the mean of the “new_cases” in all of your countries: Argentina, Chile, Colombia, Russia & Spain.
4. The API created, would show on the request screen a json file with one key: ‘c_averages’

WE CREATED THE API

We used [“GET”] methodology to define 2 functions:

- 1st: Accessing with the group ID, you can obtain the token id. EndPoint of this function: =/
get_token/

http://192.168.0.116:6060/get_token/?id=A137



YOU'LL SEE ON THE SCREEN THE
FOLLOWING TOKEN:

```
{ "token": "A2491921306645144496740293228" }
```



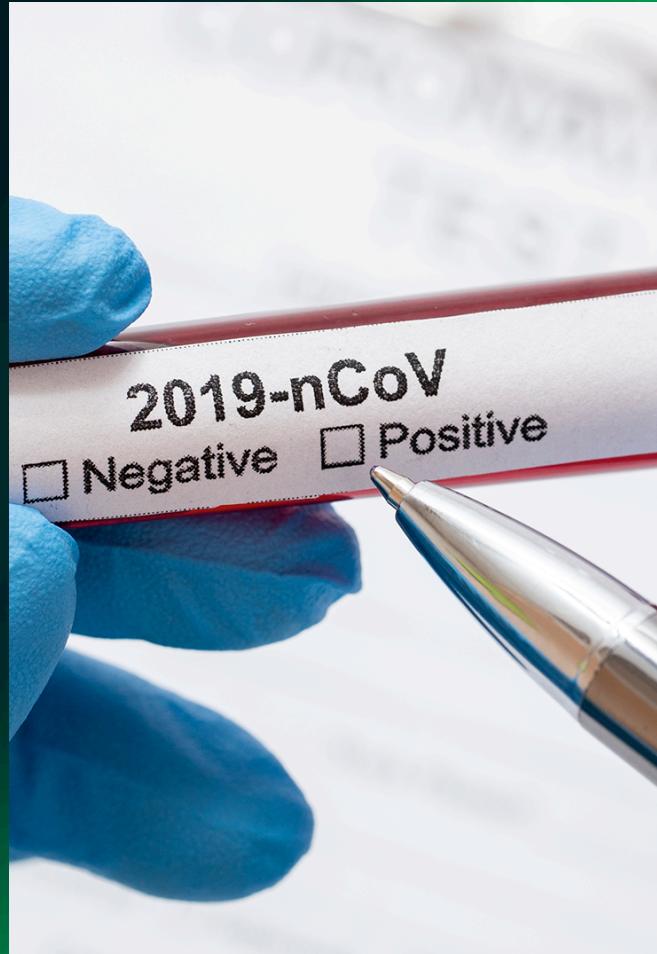
WE CREATED THE API

- ❑ 2nd: With that token id, you can access the .json file on the screen.

http://192.168.0.116:6060/get_token/?id=A137

These are the particular IP addresses from the A Team members':

192.168.0.116:6060/ (Rosario)
192.168.0.72:6060/ (Elsa)
192.168.0.80:6060/ (Tomás)
192.168.0.45:6060/ (Natatio)



YOU'LL SEE ON THE SCREEN THE FOLLOWING .json:

```
{"c_averages": {"2019-12-31": 0.0, "2020-01-01": 0.0, "2020-01-02": 0.0, "2020-01-03": 0.0, "2020-01-04": 0.0, "2020-01-05": 0.0, "2020-01-06": 0.0, "2020-01-07": 0.0, "2020-01-08": 0.0, "2020-01-09": 0.0, "2020-01-10": 0.0, "2020-01-11": 0.0, "2020-01-12": 0.0, "2020-01-13": 0.0, "2020-01-14": 0.0, "2020-01-15": 0.0, "2020-01-16": 0.0, "2020-01-17": 0.0, "2020-01-18": 0.0, "2020-01-19": 0.0, "2020-01-20": 0.0, "2020-01-21": 0.0, "2020-01-22": 0.0, "2020-01-23": 0.0, "2020-01-24": 0.0, "2020-01-25": 0.0, "2020-01-26": 0.0, "2020-01-27": 0.0, "2020-01-28": 0.0, "2020-01-29": 0.0, "2020-01-30": 0.0, "2020-01-31": 0.0, "2020-02-01": 1.5, "2020-02-02": 0.0, "2020-02-03": 0.0, "2020-02-04": 0.0, "2020-02-05": 0.0, "2020-02-06": 0.0, "2020-02-07": 0.0, "2020-02-08": 0.0, "2020-02-09": 0.0, "2020-02-10": 0.5, "2020-02-11": 0.0, "2020-02-12": 0.0, "2020-02-13": 0.0, "2020-02-14": 0.0, "2020-02-15": 0.0, "2020-02-16": 0.0, "2020-02-17": 0.0, "2020-02-18": 0.0, "2020-02-19": 0.0, "2020-02-20": 0.0, "2020-02-21": 0.0, "2020-02-22": 0.0, "2020-02-23": 0.0, "2020-02-24": 0.0, "2020-02-25": 0.5, "2020-02-26": 3.0, "2020-02-27": 4.0, "2020-02-28": 9.0, "2020-02-29": 9.5, "2020-03-01": 14.0, "2020-03-02": 27.0, "2020-03-03": 28.5, "2020-03-04": 19.5, "2020-03-05": 27.67, "2020-03-06": 46.25, "2020-03-07": 49.4, "2020-03-08": 110.33, "2020-03-09": 110.25, "2020-03-10": 194.25, "2020-03-11": 246.5, "2020-03-12": 295.0, "2020-03-13": 389.5, "2020-03-14": 343.6, "2020-03-15": 441.0, "2020-03-16": 349.2, "2020-03-17": 527.0, "2020-03-18": 756.4, "2020-03-19": 834.4, "2020-03-20": 956.4, "2020-03-21": 1130.4, "2020-03-22": 1028.2, "2020-03-23": 987.8, "2020-03-24": 1582.2, "2020-03-25": 1788.8, "2020-03-26": 1908.8, "2020-03-27": 1927.0, "2020-03-28": 1778.6, "2020-03-29": 1415.0, "2020-03-30": 1296.4, "2020-03-31": 1799.8, "2020-04-01": 1662.2, "2020-04-02": 1728.4, "2020-04-03": 1702.4, "2020-04-04": 1567.0, "2020-04-05": 1372.8, "2020-04-06": 963.4, "2020-04-07": 1335.0, "2020-04-08": 1465.2, "2020-04-09": 1540.8, "2020-04-10": 1338.0, "2020-04-11": 1439.2, "2020-04-12": 1278.0, "2020-04-13": 1127.0, "2020-04-14": 1226.2, "2020-04-15": 1575.4, "2020-04-16": 1538.0, "2020-04-17": 1611.2, "2020-04-18": 1731.0, "2020-04-19": 980.4, "2020-04-20": 1781.8, "2020-04-21": 1582.6, "2020-04-22": 1712.6, "2020-04-23": 1793.4, "2020-04-24": 1551.2, "2020-04-25": 1833.8, "2020-04-26": 1752.8, "2020-04-27": 1746.2, "2020-04-28": 1729.2, "2020-04-29": 1657.2, "2020-04-30": 1604.4, "2020-05-01": 2012.6, "2020-05-02": 2151.0, "2020-05-03": 2482.6, "2020-05-04": 2562.4, "2020-05-05": 2601.8, "2020-05-06": 2625.6, "2020-05-07": 2609.2, "2020-05-08": 2919.4, "2020-05-09": 2733.6, "2020-05-10": 3217.8, "2020-05-11": 2726.6, "2020-05-12": 2826.0, "2020-05-13": 2836.8, "2020-05-14": 2902.2, "2020-05-15": 2842.2, "2020-05-16": 2913.2, "2020-05-17": 2557.4, "2020-05-18": 2590.6, "2020-05-19": 2584.4, "2020-05-20": 2875.8, "2020-05-21": 2902.0, "2020-05-22": 3178.2, "2020-05-23": 3031.0, "2020-05-24": 3040.4, "2020-05-25": 2731.4, "2020-05-26": 3211.6, "2020-05-27": 3002.2, "2020-05-28": 3121.8, "2020-05-29": 3142.8, "2020-05-30": 2994.0, "2020-05-31": 3143.2, "2020-06-01": 3218.2, "2020-06-02": 3294.8, "2020-06-03": 3005.6, "2020-06-04": 3256.4, "2020-06-05": 3115.8, "2020-06-06": 3309.8, "2020-06-07": 3343.2, "2020-06-08": 3507.8, "2020-06-09": 3247.8, "2020-06-10": 3064.4, "2020-06-11": 3482.2, "2020-06-12": 3250.0, "2020-06-13": 4140.8, "2020-06-14": 3791.4, "2020-06-15": 3885.8, "2020-06-16": 3388.0, "2020-06-17": 3371.6, "2020-06-18": 9623.0, "2020-06-19": 3148.6, "2020-06-20": 4340.4, "2020-06-21": 3513.8, "2020-06-22": 3633.4, "2020-06-23": 3426.6, "2020-06-24": 2790.4, "2020-06-25": 3937.2, "2020-06-26": 3654.4, "2020-06-27": 3100.6, "2020-06-28": 4199.0, "2020-06-29": 2877.0, "2020-06-30": 3767.0, "2020-07-01": 3108.0, "2020-07-02": 3296.0, "2020-07-03": 3309.0, "2020-07-04": 3301.2, "2020-07-05": 2854.8, "2020-07-06": 3595.2, "2020-07-07": 3117.4, "2020-07-08": 3211.6, "2020-07-09": 3258.4, "2020-07-10": 3886.6, "2020-07-11": 4031.8, "2020-07-12": 3463.8, "2020-07-13": 4040.8, "2020-07-14": 3251.6, "2020-07-15": 3545.8, "2020-07-16": 3682.2, "2020-07-17": 4521.6, "2020-07-18": 5607.6, "2020-07-19": 3837.4, "2020-07-20": 3754.6, "2020-07-21": 4071.0, "2020-07-22": 3981.0, "2020-07-23": 4586.0, "2020-07-24": 4837.4, "2020-07-25": 4330.2, "2020-07-26": 4181.2, "2020-07-27": 6302.2, "2020-07-28": 3544.2, "2020-07-29": 4895.4, "2020-07-30": 5464.75}}
```

01. Option C

We got the .json file from Group D. They represented “t_d_averages”, which is the mean of the “total_deaths” of all of their countries.

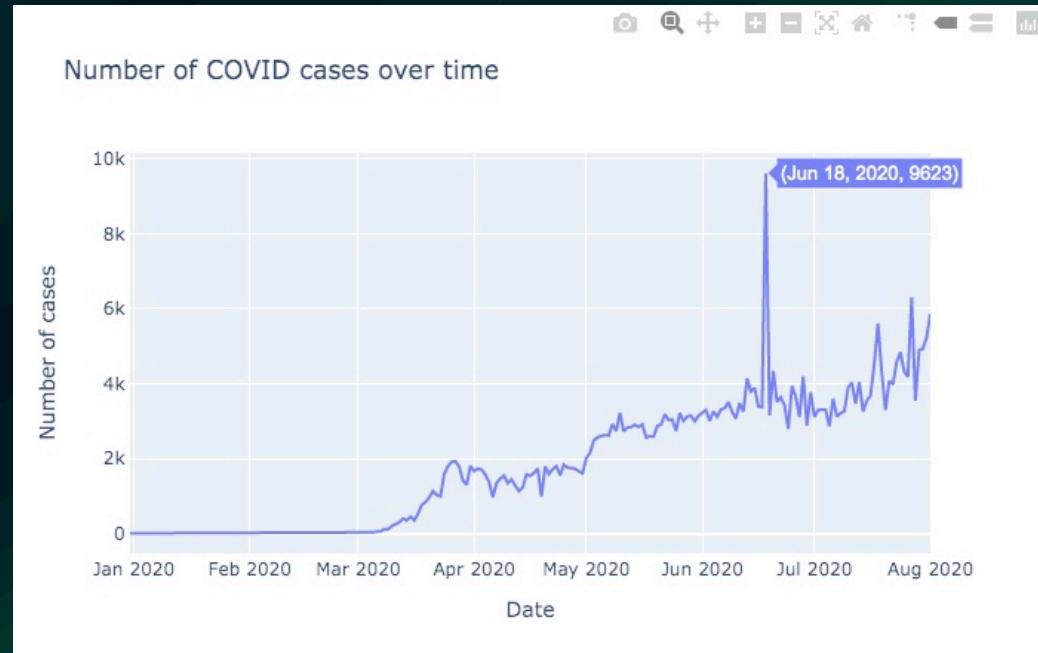
Of course it shows different trends for each column compared to our dataset...

WHY??

- Because they have information from different countries. Their group of 5 countries only has 1 country in common.
- They calculated the mean of total deaths due to COIVD19, whereas we calculated the mean of New Cases detected.

Our countries:

- Argentina
- Chile
- Colombia
- Russia
- Spain



Show, vertically, the start and end date of the alarm state in Group D's countries:



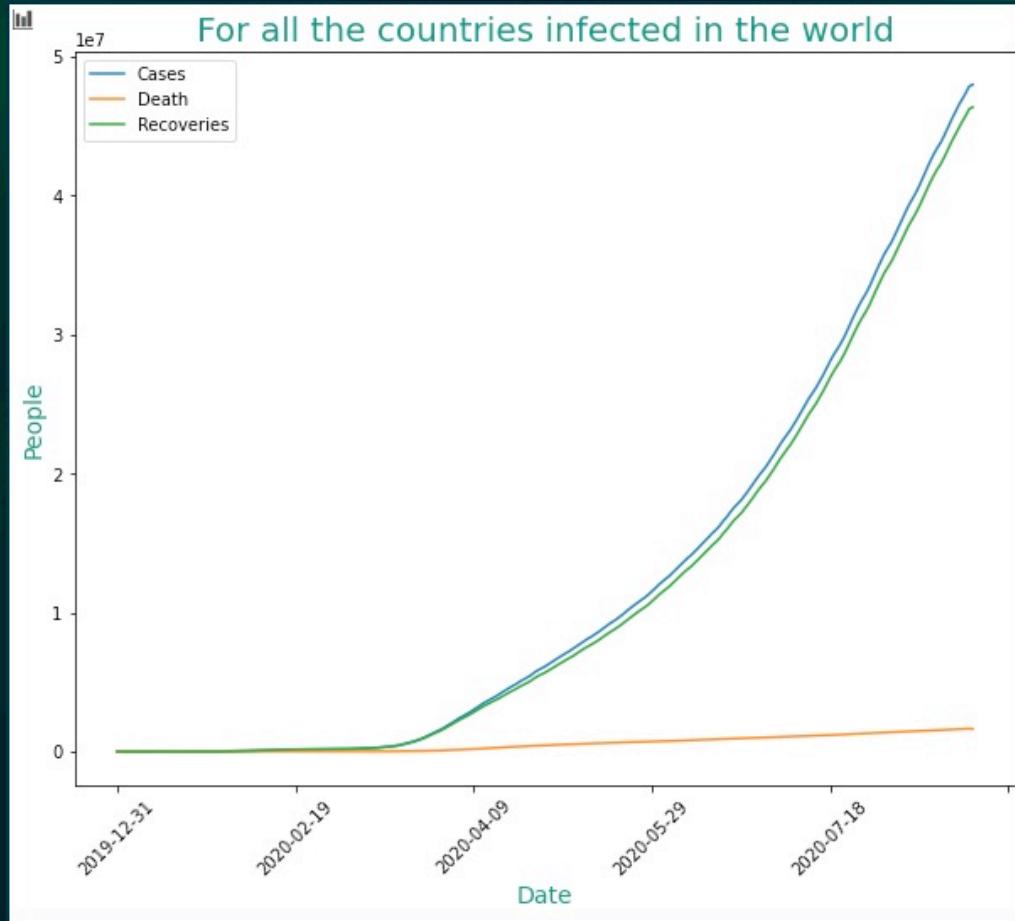
Group D's countries:

- Portugal
- Spain
- Turkey
- UK
- Venezuela

ALL THE COUNTRIES INFECTED IN THE WORLD

The graph shows the following numbers for all the countries:

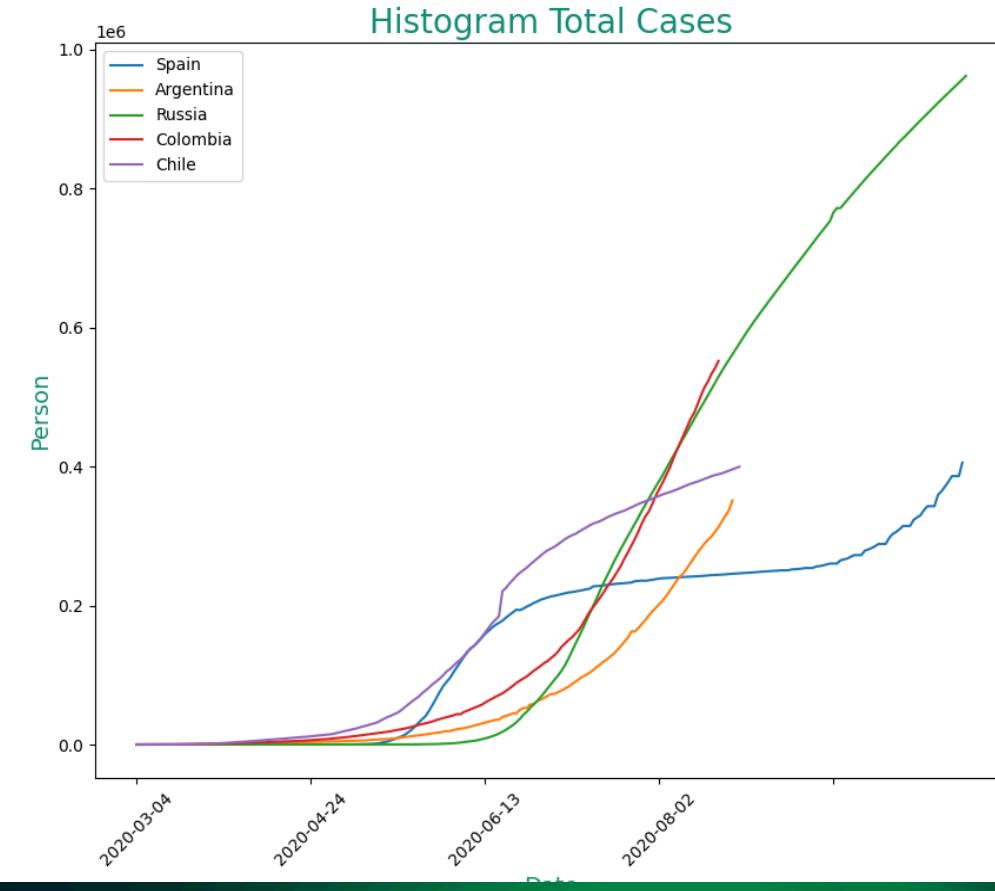
- Total infected
- Total deaths
- Total recoveries



OUR GROUP OF COUNTRIES

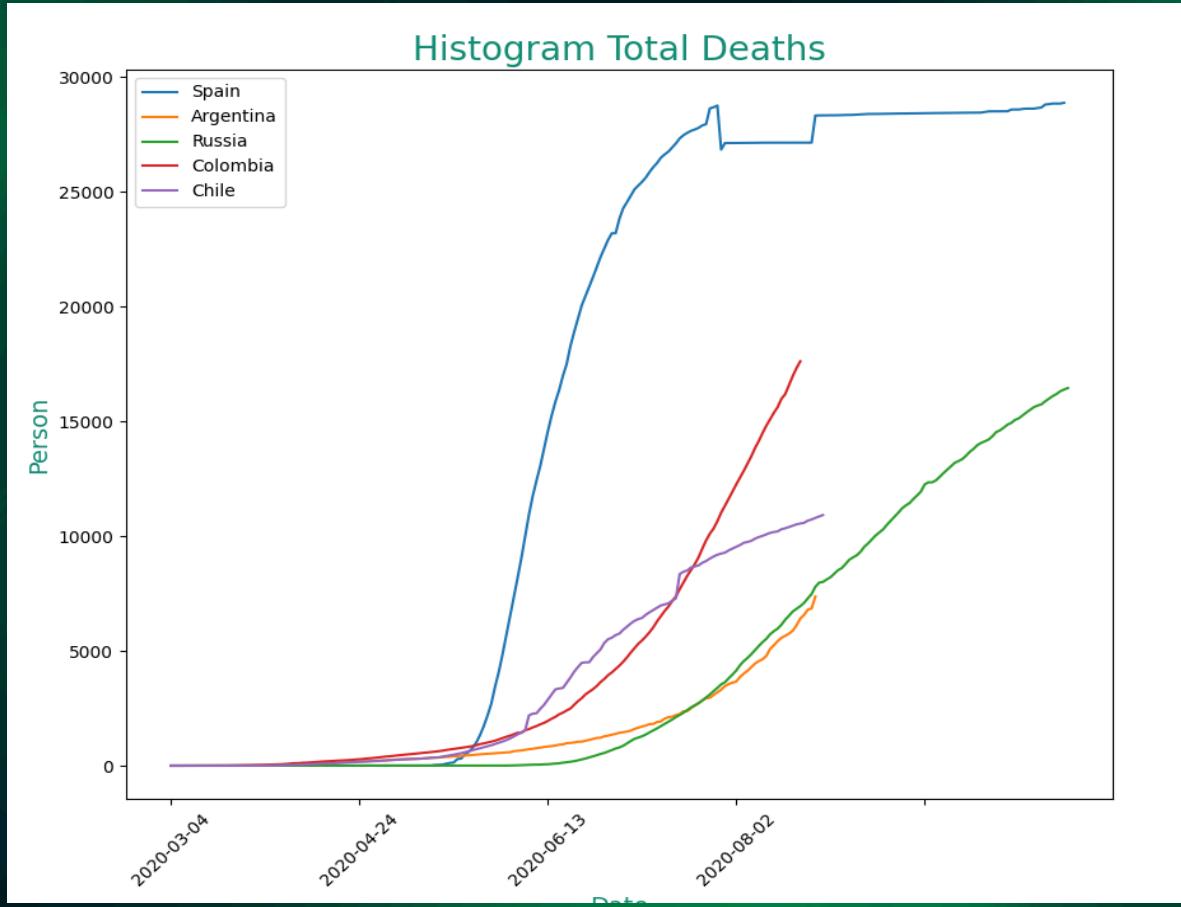
Position of Argentina, Chile, Colombia, Russia & Spain, in terms of:

- Total infected/ New Cases



OUR GROUP OF COUNTRIES

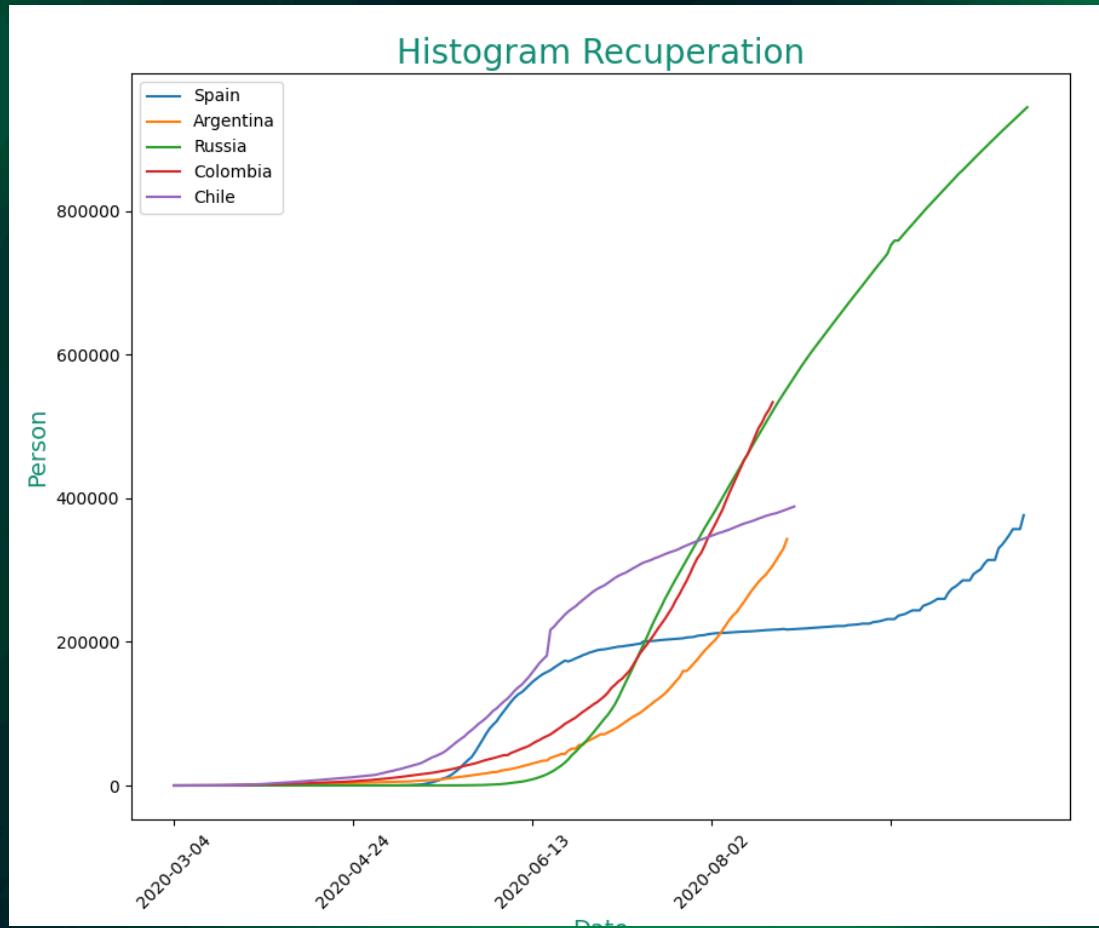
Position of
Argentina, Chile,
Colombia, Russia
& Spain, in terms
of:
• Total Deaths



OUR GROUP OF COUNTRIES

Position of Argentina, Chile, Colombia, Russia & Spain, in terms of:

- Total Recoveries



STATS FOR THE 5 COUNTRIES

Mean of Cases for each country

Argentina 1970

Chile 2150

Colombia 3095

Russia 5190

Spain 2285

Conclusions about our data study - Outliers & rare data

3.240

Mean of New Reported Cases
within the 5 countries of our Group
work, PER DAY, since January
2020 up to present.

Argentina – Aug 25th = 14.065

Colombia – Aug 20th = 13.056

Chile – Jun 18th = 36.179

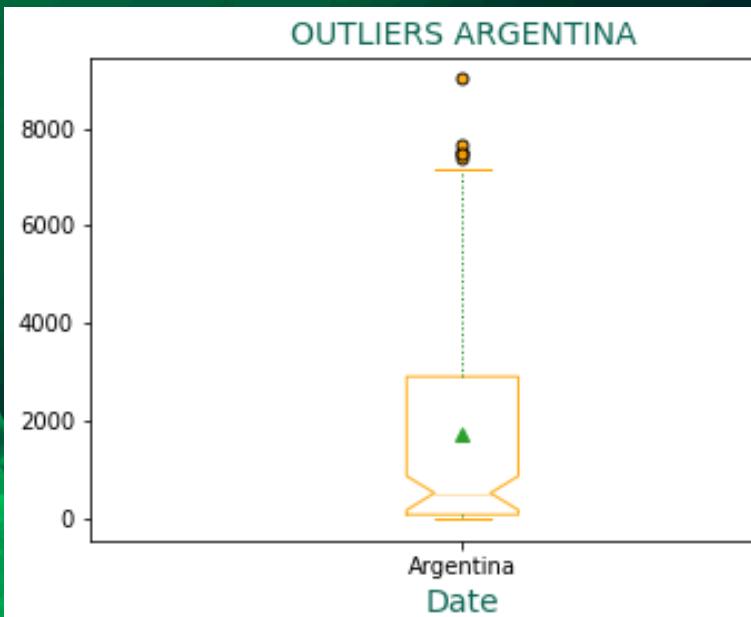
Russia – July 18th = 12.640

Spain – Aug 24th = 19.382

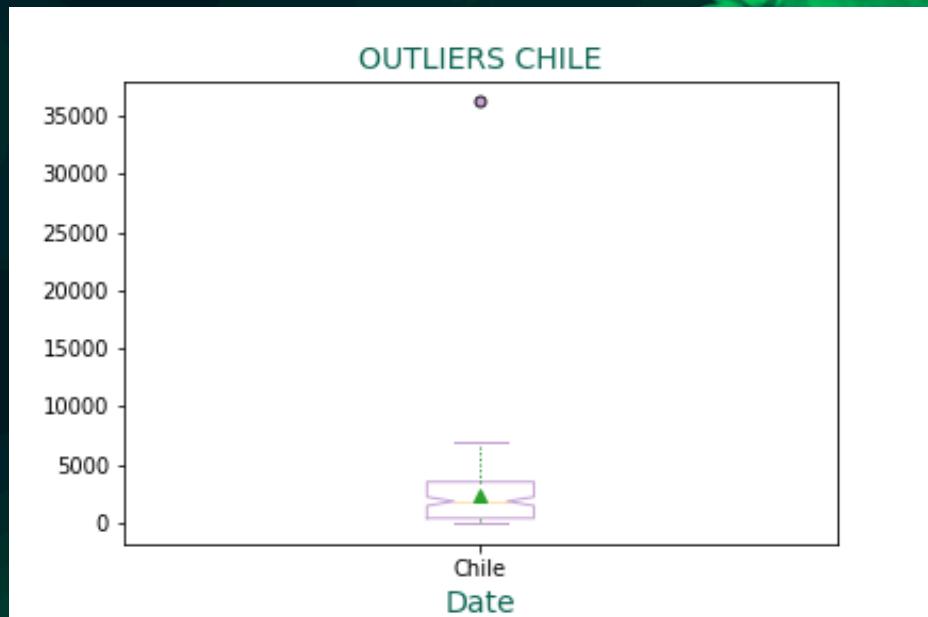
Maximum Peaks of COVID19 Positive cases

OUTLIERS

Argentina

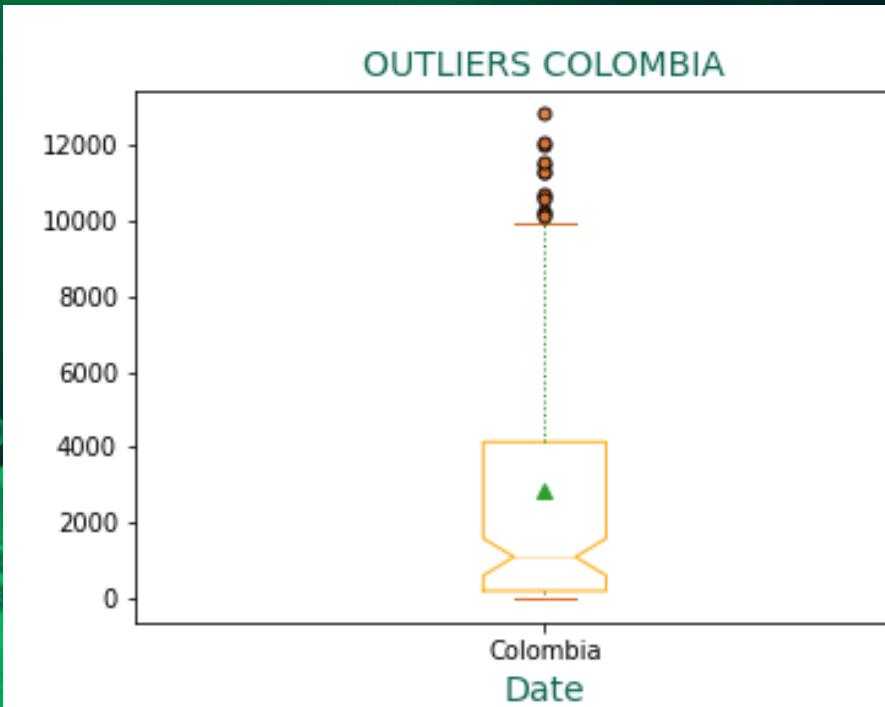


Chile

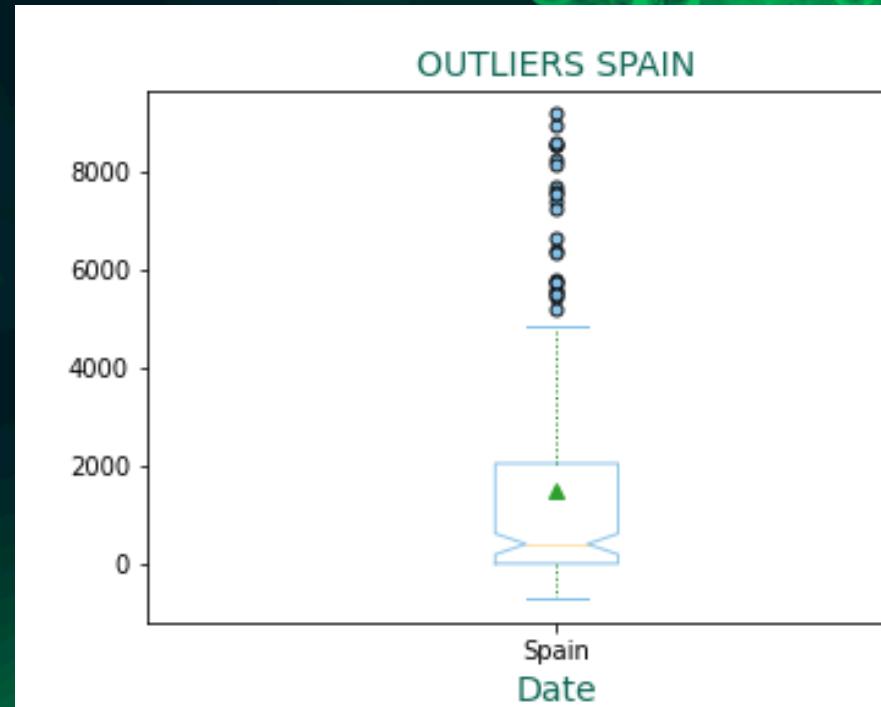


OUTLIERS

Colombia

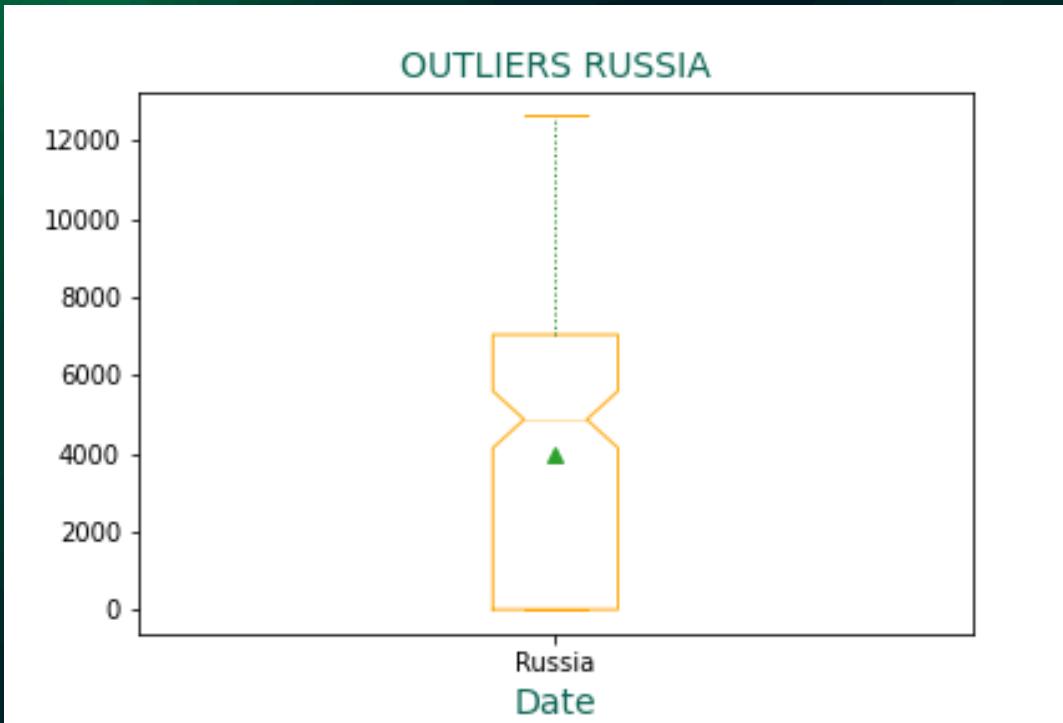


Spain



OUTLIERS

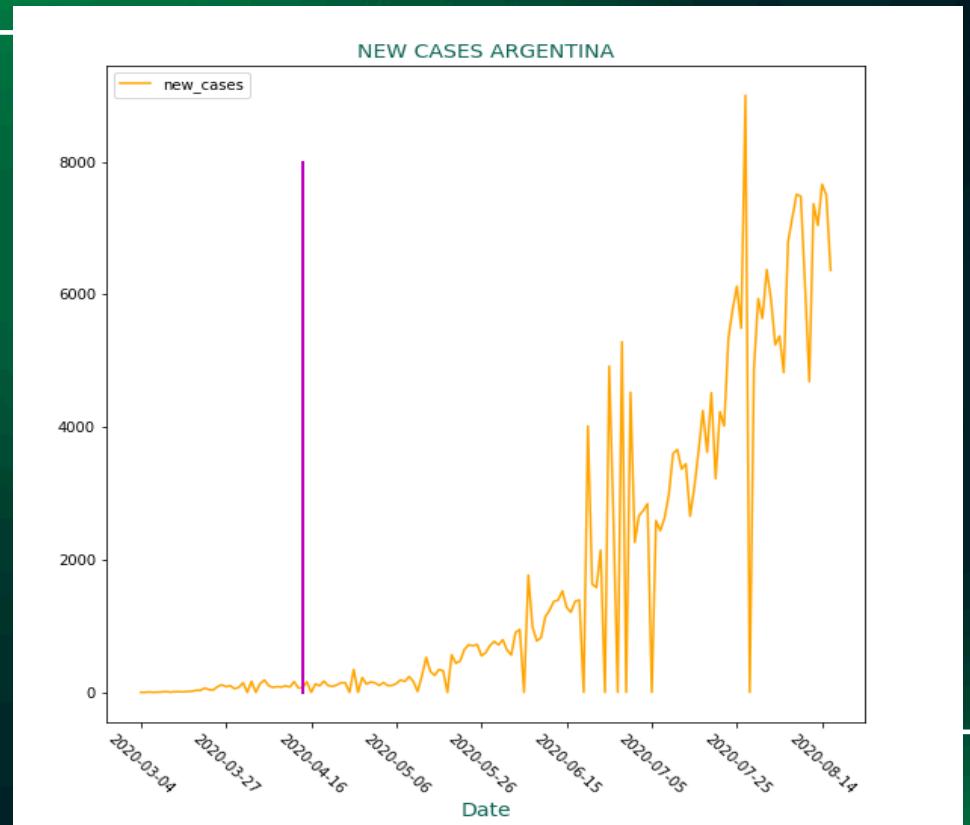
Russia



02. Option B

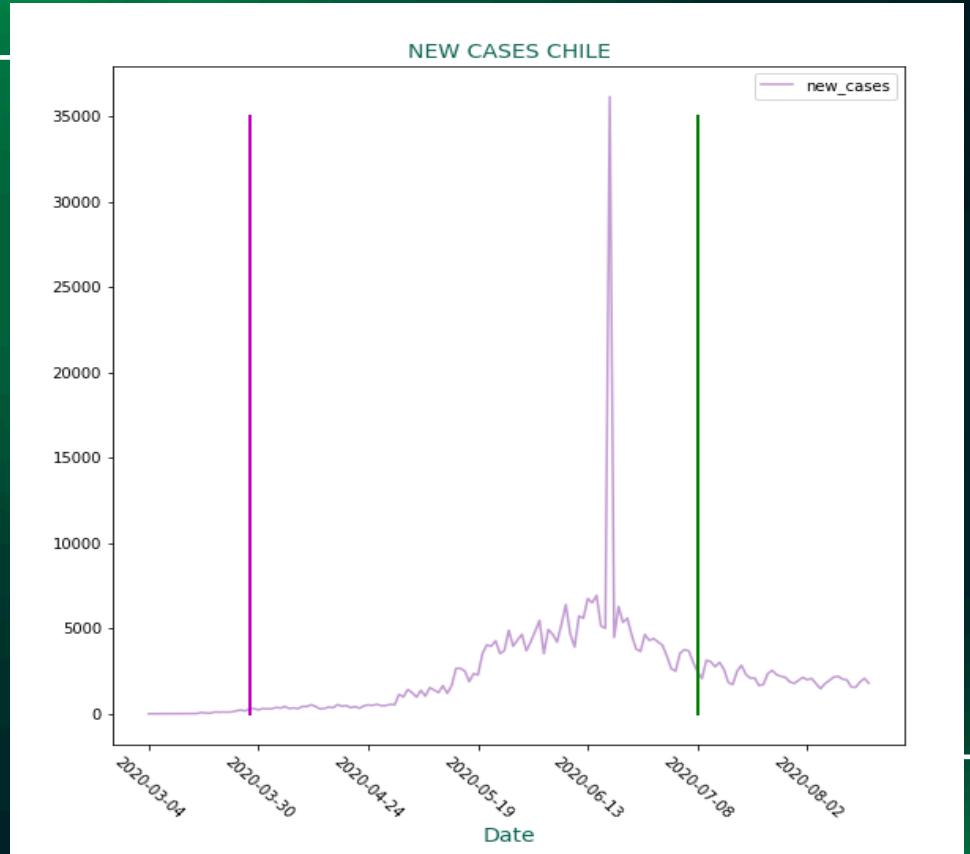
1. Draw, in different colors and vertically, the moments when the daily death curve increases and decreases.
2. Create with bars, lines, points and pie charts the daily deaths and infected.

Moments when the Daily curves Increases and decreases



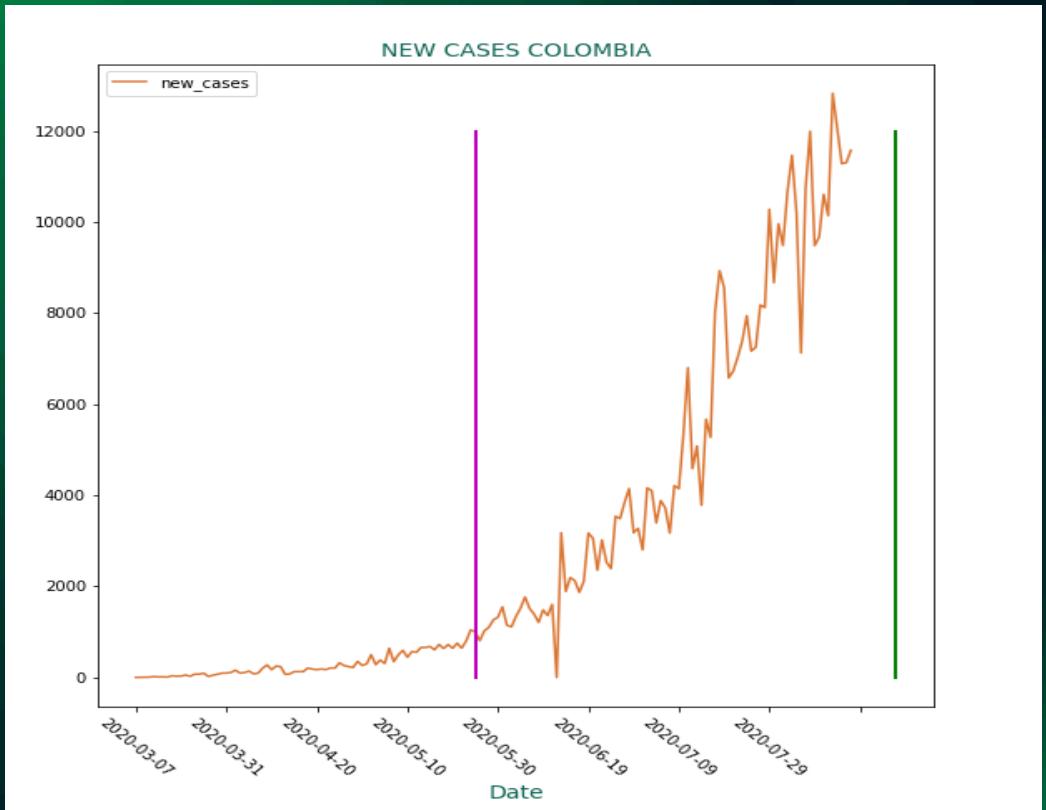
Argentina:
July 27th

Moments when the Daily curves Increases and decreases



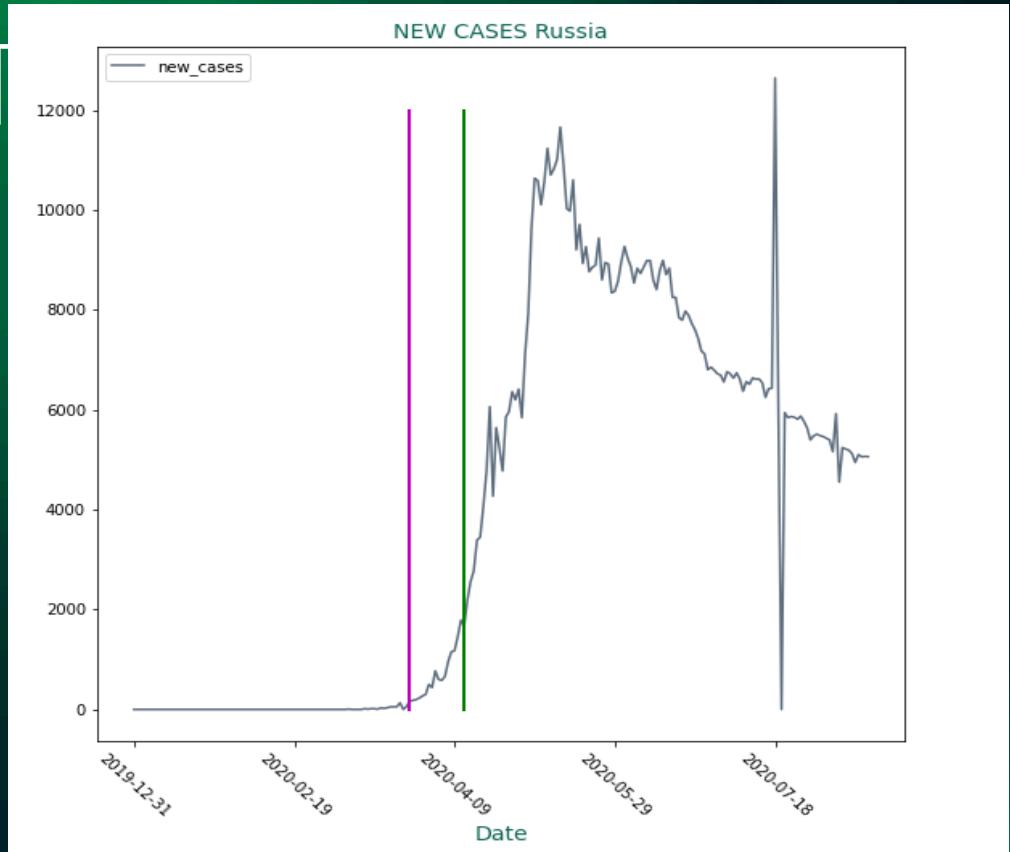
Chile:
June 18th

Moments when the Daily curves
Increases and decreases



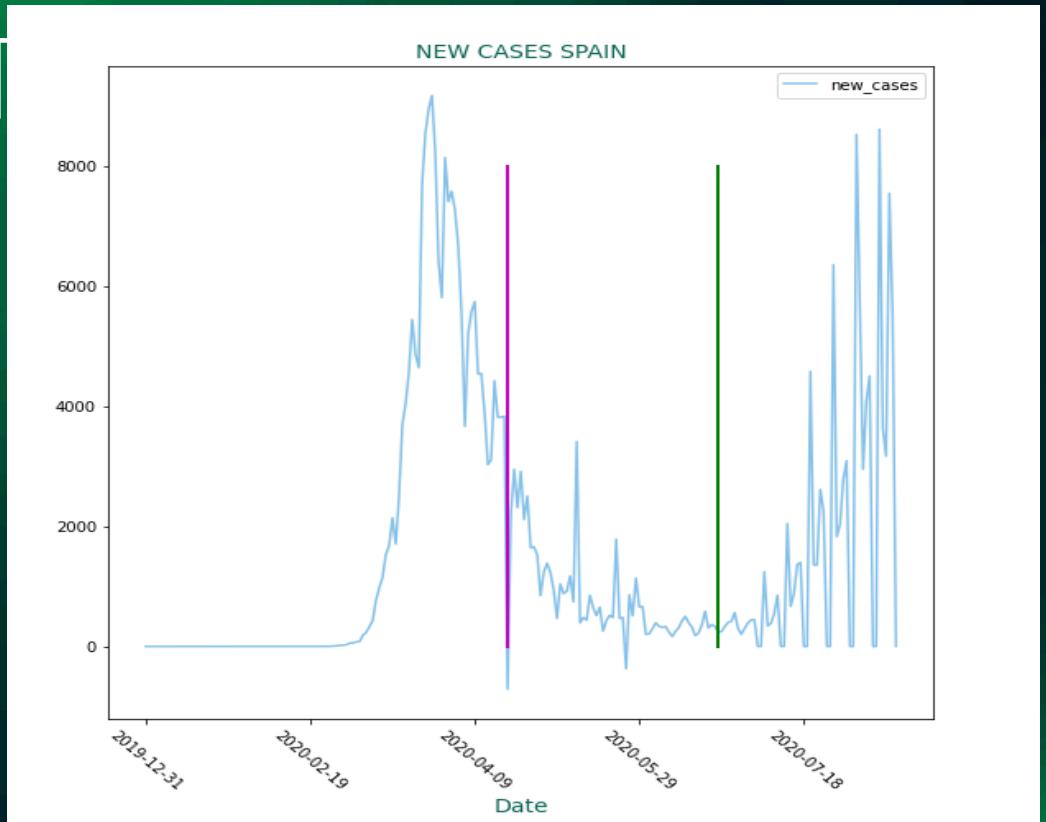
Colombia:
August 20th

Moments when the Daily curves Increases and decreases



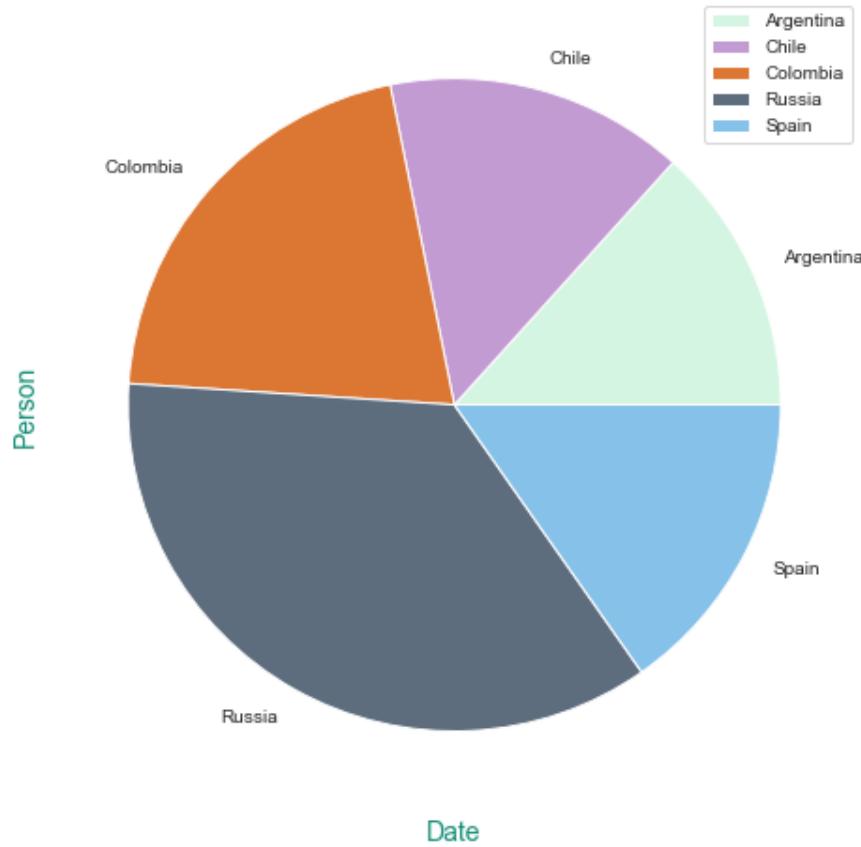
Russia:
May 20th

Moments when the Daily curves Increases and decreases



Spain:
March 27th

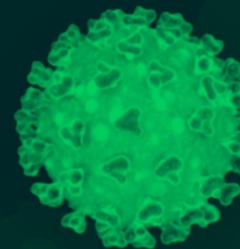
NEW CASES



PIE CHART

New cases in our 5 countries:

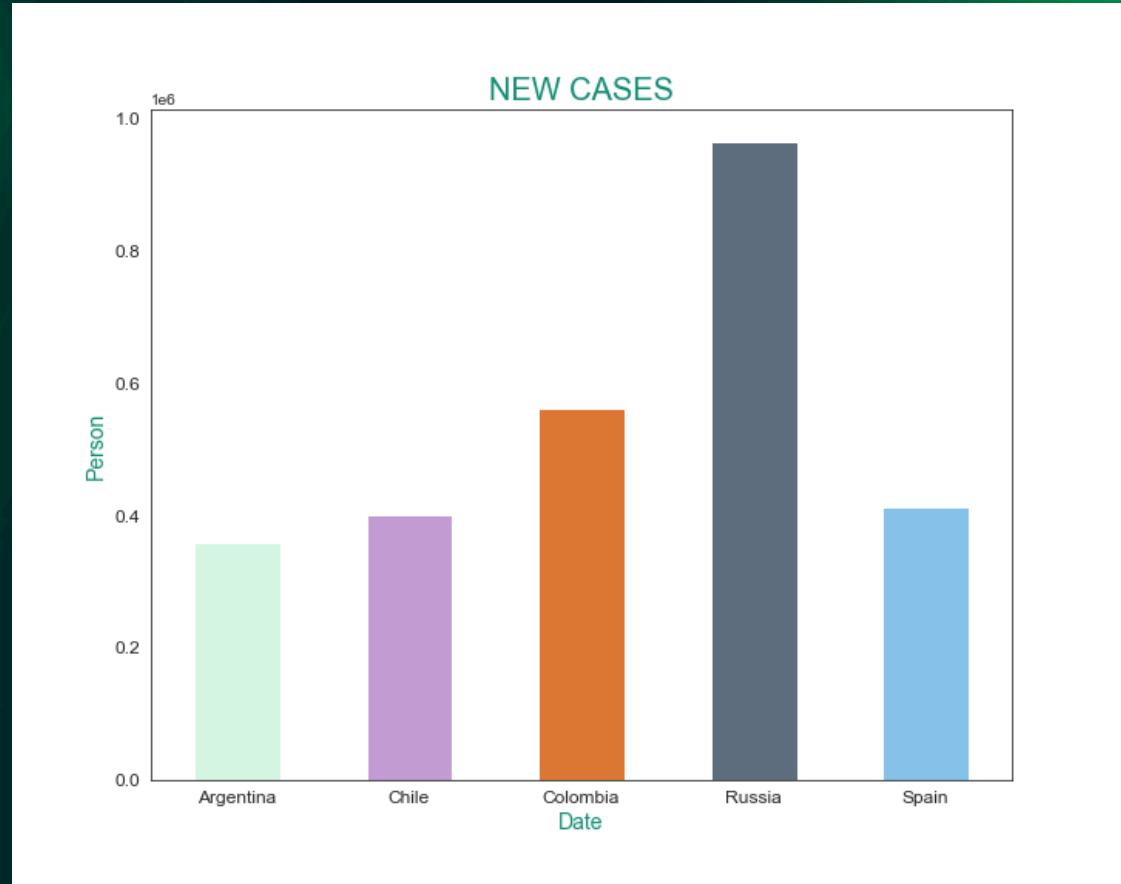
Argentina
Chile
Colombia
Russia
Spain



BARS

New cases in our 5 countries:

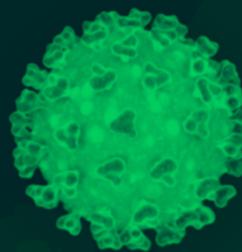
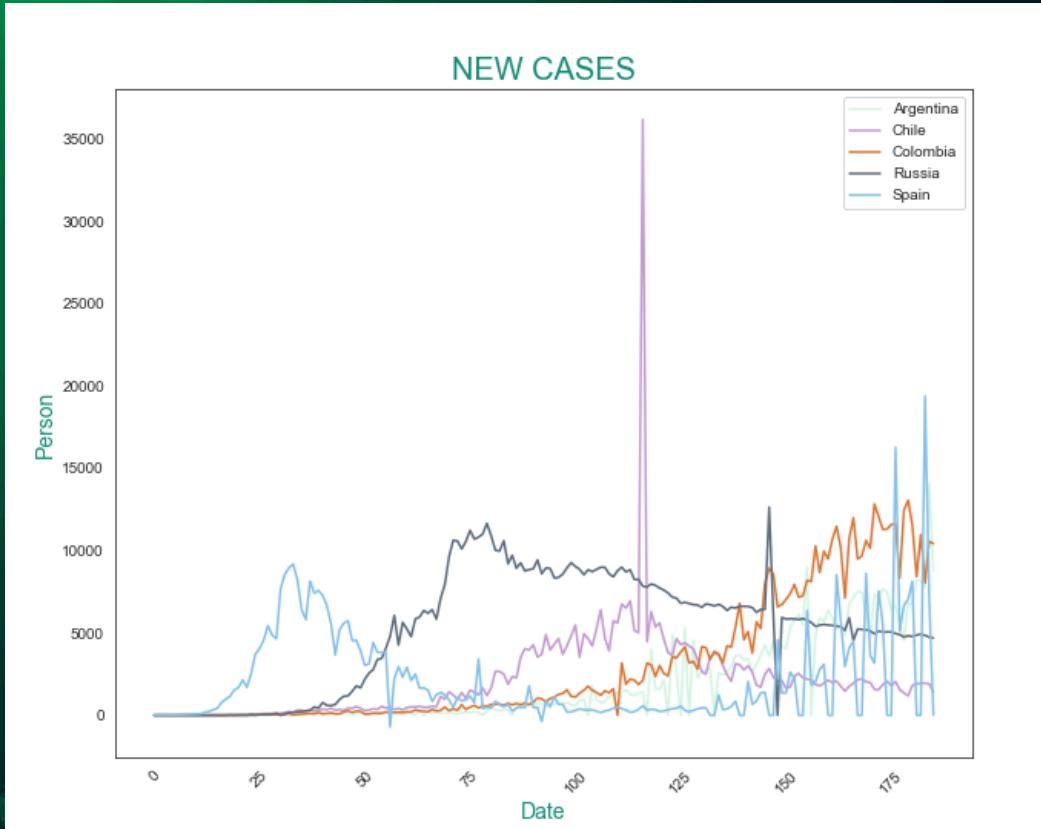
Argentina
Chile
Colombia
Russia
Spain



BARS

Total cases in our 5 countries:

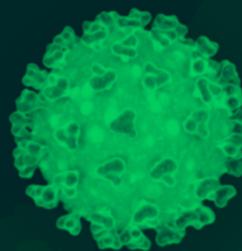
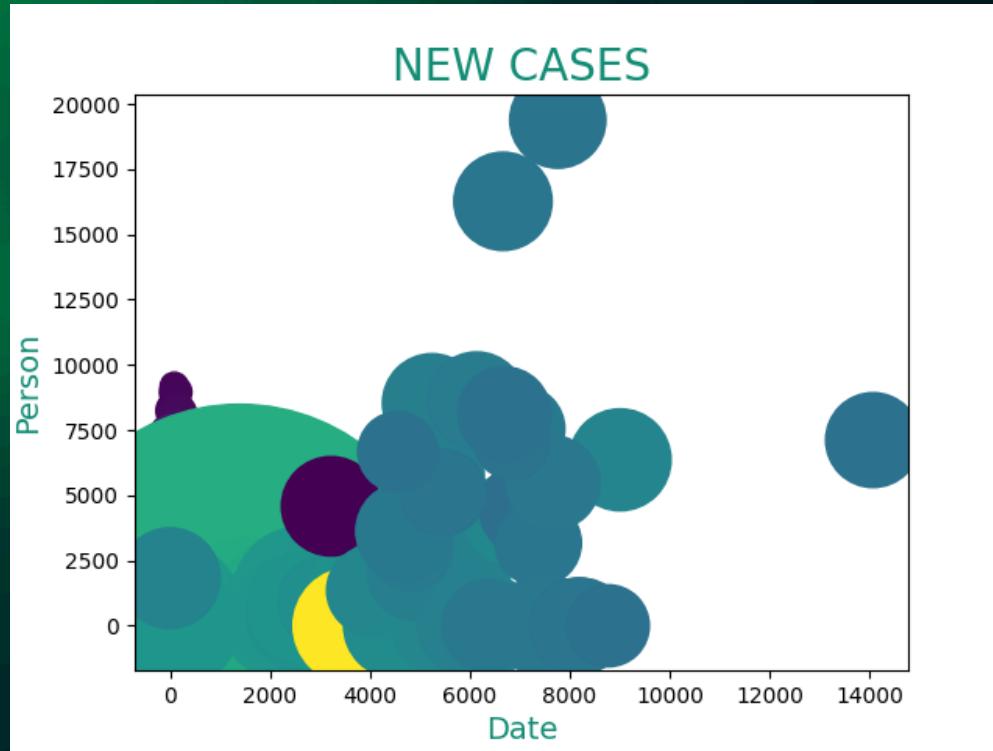
Argentina
Chile
Colombia
Russia
Spain



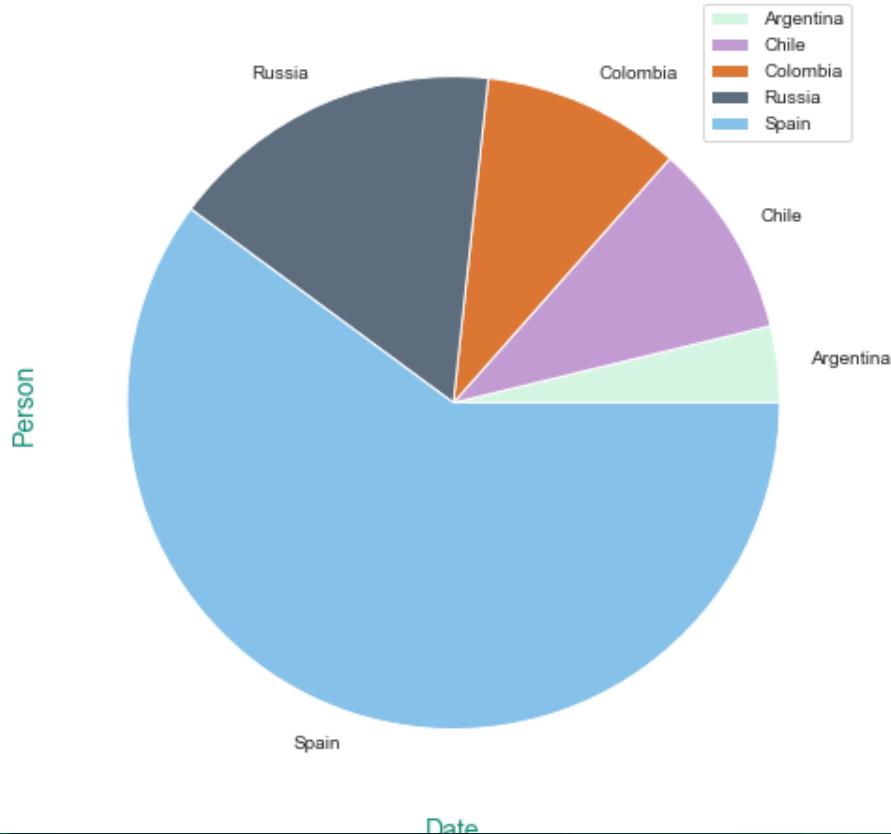
POINTS

Total cases in our 5 countries:

Argentina
Chile
Colombia
Russia
Spain

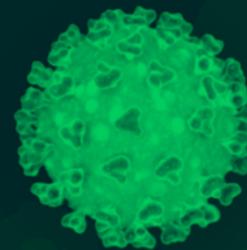


TOTAL DEATHS



PIE CHART

Total death in our 5 countries

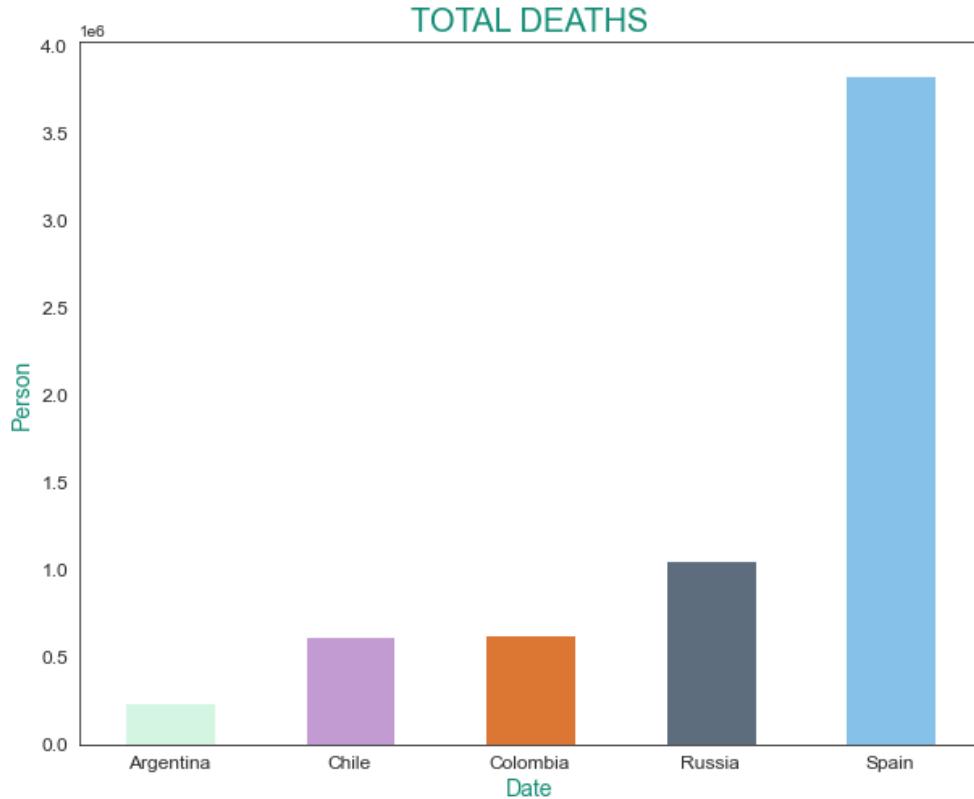


Argentina
Chile
Colombia
Russia
Spain

BARS

Total death in our 5 countries:

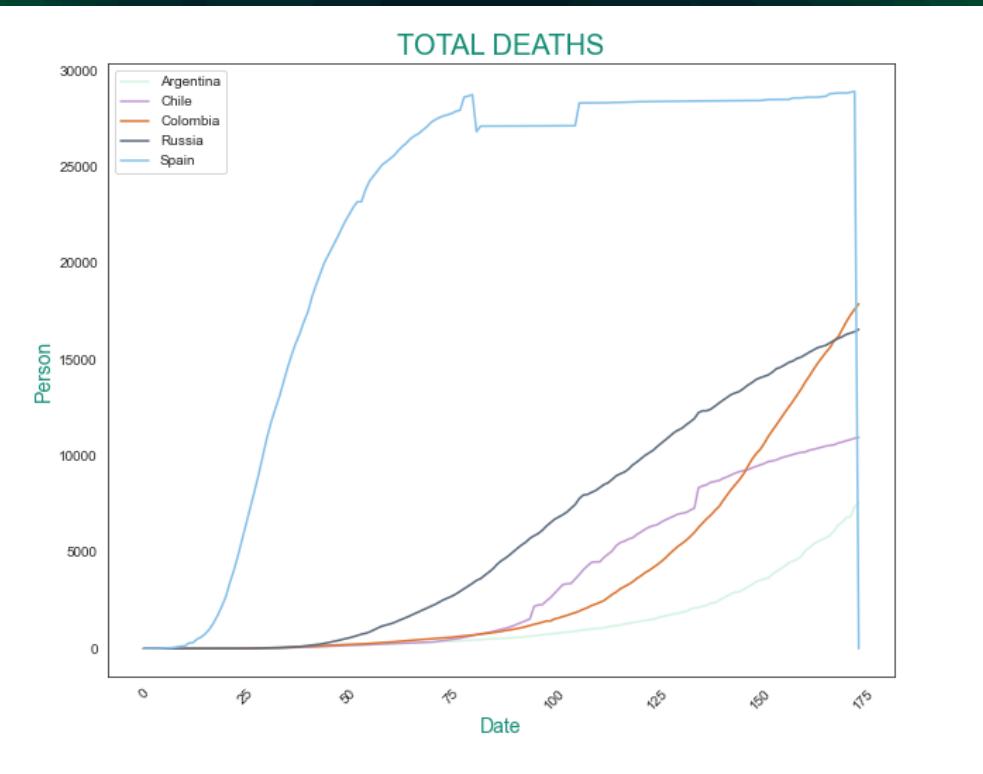
Argentina
Chile
Colombia
Russia
Spain

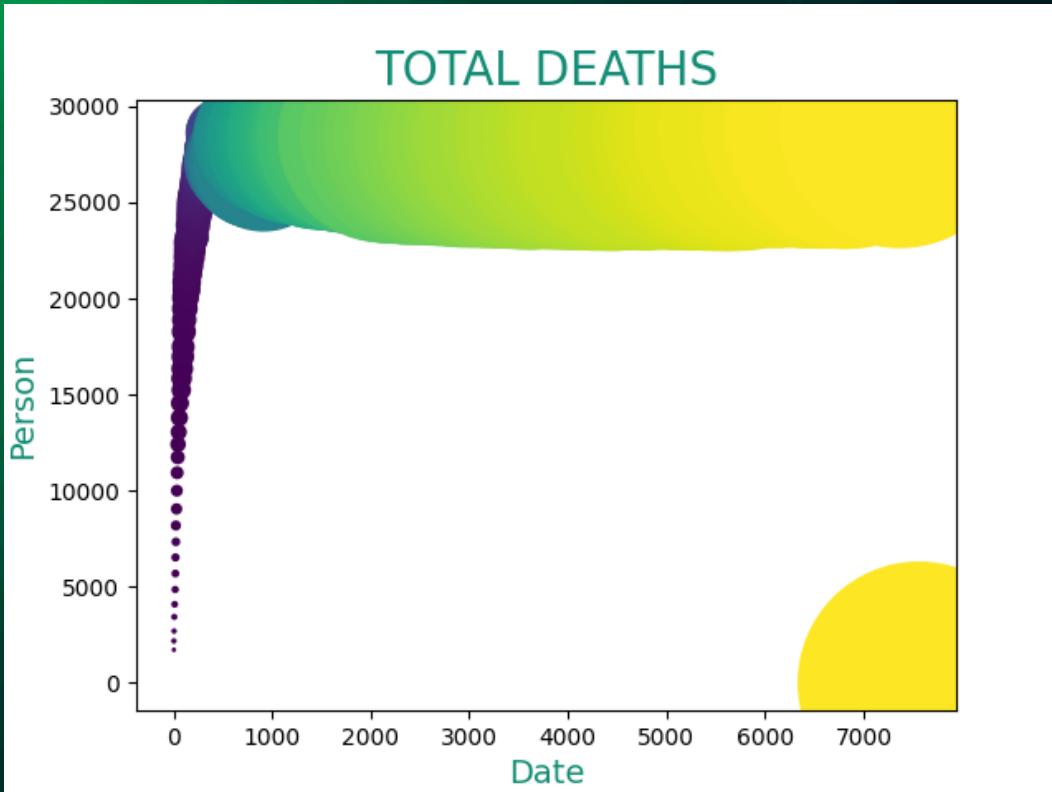


LINES

Total death in our 5 countries:

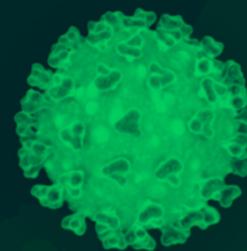
Argentina
Chile
Colombia
Russia
Spain





POINTS

Total death in our 5 countries



Argentina
Chile
Colombia
Russia
Spain

Countries from our Group A

	Total NEW CASES	TOTAL DEATHS
Argentina	370175	7839
Chile	402365	10990
Colombia	572270	18184
Spain	419849	28971
Russia	970865	16683

2,735,524

Reported cases of COVID-19 in our 5 countries

82,667

Reported death of COVID-19 in our 5 countries as
of August 2020

0,03%

Mortality percentage as of August 2020

03. Option A

1. Research to save each plot in local files. Save them on different folders for each country.

2. Use distribute modules for each functionality. The jupyter notebooks must not have any loop or function definitions. It only must have the initials imports and the call to necessary functions.
3. Can we conclude that the alarm state has had an effect on the improvement of the daily infected rate? explain why (we know it is more complex of what you can explain with your data).

The alarm state shows a little improvement on the daily infected rate, at the beginning, but it's not very consistent.

If we had to mention a correlation: it would be negative.

When the alarm state starts: Cases are at their highest. Then they start decreasing as the alarm state is carried out. Then they tend to stabilize, the alarm state is released and cases start to climb up again..

03. Option A+

Here you could describe the topic of the section



“We cannot say this loudly enough or clearly enough or often enough: All countries can still change the course of this pandemic”

—DR. TEDROS ADHANOM GHEBREYESUS, WORLD HEALTH ORGANIZATION'S DIRECTOR GENERAL

COVID-19

COVID-19 is an infectious disease caused by the recently found virus known as SARS-CoV-2 (or coronavirus). Before the outbreak originated in Wuhan, China on December 2019, there was no information about this virus

HISTORY

The oldest common ancestor of coronavirus has been dated as far back as the 9th century BC. Some studies published in 1990 specified the most recent common ancestors as follows:

- Betacoronavirus: 3300 BC
- Deltacoronavirus: 3000 BC
- Gammacoronavirus: 2800 BC
- Alphacoronavirus: 2400 BC

A microscopic image showing several green, spherical COVID-19 virus particles. Some particles are clustered together, while others are separate. The background is a dark, textured green.

ABOUT CORONAVIRUS

here if you need it

SYMPTOMS OF COVID-19



HIGH FEVER

The body temperature can exceed 37.3 Celsius degrees or 99 Fahrenheit degrees



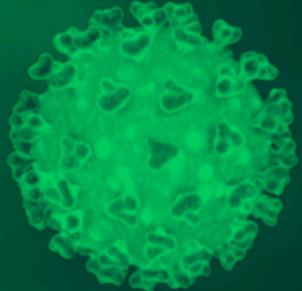
TIREDNESS

The body feels completely tired and without energy to perform normal tasks

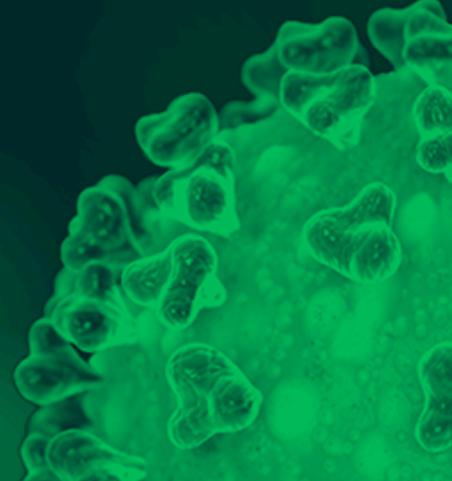


DRY COUGH

Irritation and constant coughing without expelling any mucus

A large, detailed illustration of a COVID-19 virus particle (SARS-CoV-2) in the upper left corner, showing its characteristic spike proteins.

PREVENTION MEASURES

A smaller, partially visible illustration of a COVID-19 virus particle in the lower right corner.

You could enter a subtitle here if you need it

PROTECTING YOURSELF AND PREVENTING THE SPREAD OF THE DISEASE



Wash your hands with an alcohol-based sanitizer or with soap and water



Keep a distance of at least 1 meter between yourself and anyone who coughs or sneezes



Try your best not to touch your eyes, your nose and your mouth



Cover your mouth and your nose with your bent elbow or a tissue when coughing



Seek medical attention if you have difficulty breathing and a high fever



Follow the directions of your national or local health authorities

PROTECTION MEASURES FOR PEOPLE THAT ARE IN OR VISITED INFECTED AREAS

01

Stay home if you do not feel well, even if you feel mild symptoms such as headaches, slight fever and a runny nose

02

If you need to go out (for example, to buy food or supplies), wear a mask to minimize the risk of infecting others

03

If you have difficulty breathing and/or a high fever, seek medical advice as soon as possible

04

Call your provider and inform them of any recent travel, especially to countries with reported cases

ABOUT 80% OF
PEOPLE RECOVER
FROM THIS DISEASE
WITHOUT NEEDING
SPECIAL
TREATMENT



WHAT TO DO IF YOU DON'T FEEL WELL

STEP 04

Patiently wait for the results of the test



STEP 05

Follow the instructions provided by the doctor

THANKS!



Do you have any questions?

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ALTERNATIVE RESOURCES

