

# National University Of Computer And Emerging Sciences

DATA SCIENCE PROJECT

# Comparative Analysis Of Covid-19 Spread In Major Impacted Countries

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Submitted To

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#### 1 Introduction

Covid-19 or we may call it Novel coronavirus emerged in Dec 2019 in Wuhan, China. Since its outbreak in Wuhan, it has now spread to almost all over the world infecting a total number of 7.27M people and taking 413K lives. Covid-19 is a virus whose vaccine has not been discovered till now which is the major cause of high number of deaths. A proper vaccine or cure has not been discovered due to which the only option that the authorities had was to put the whole world under lockdown. Its spread is so quick that just within a few months, the total number of cases of Covid positive patients in Pakistan has increased upto 131,509 people and the death toll is around 2.5k.

In our project, we tried to perform a comparative analysis of spread of Covid-19 in major impacted countries of the world. We believe that by analysing the spread of Covid-19, we can find out the hotspots of the virus and can focus our resources to combat the virus in those areas. Additionally, by having a comparative analysis of the COVID-19 spread in major countries, we can analyse the different strategies and their effectivenesses taken by the countries in order to reduce the spread and impact of the virus. We can also learn about the measures taken in those countries where the spread of virus is less and can impose those SOP's in Pakistan also. Pakistan, being a third world country, and on top of that facing this novel virus, is continuously struggling with the different strategies that she must observe in order to contain the virus in the most effective manner, while also giving the least possible damage to the economy. Therefore, it is only possible for Pakistan to look and study the policies of the neighbouring and developed countries to devise policies that are best suited for the economy and people of Pakistan.

### 2 Data Retrieval

Data retrieval is the most important part of Data science methodology. Without data, a data scientist is powerless because he does not have anything to apply his skills on and gain some interesting insights. To achieve our objective, we spent a great amount of time getting the data for the novel COVID-19. In the process of research, we found out that the most reliable website to get the latest COVID-19 updates for each country is "WorldoMeters" and it provides the data in the form of a dashboard and has it updated in the most accurate time. However, one of the interesting items that needs special care is that since the data for each country, city, province and region is changing daily, it must be made sure to develop an algorithm that can be re-run(automatically or manually) each day to get the relevant updates.

Therefore, we researched on the best techniques to scrape the data and found two sources. The first one is a simplified GUI based tool named "ParseHub" and the second is using Python scripting. To get the insights of the data flow and to have an error-free version of the data with us, we first tried the GUI based platform and extracted the data in the CSV file. The best feature of this tool is that it provides an API as well which a user can hit and get the latest updates, based upon the modules and items that he has chosen to scrape on the platform. However, we found out that this method may not be very feasible in the longer run since the platform is free for a limited number of hits and page scrapes and for higher requirements, the platform requires to use a paid version of the application.

We then moved towards the conventional and one of the powerful ways of extraction of data from a website which is using Python and its libraries. Therefore, we used libraries such as Pandas, Requests and BeautifulSoup to extract the data from the "WorldoMeters" site and then parsed it before saving it onto our file system as CSV files.

In addition to the data sources we gathered,

we also gathered the data from several other sources in an attempt to gather consistent data and also the data that belonged to not just scraping websites but also from internal sources, such as governmental sources. The major source of our data is John Hopkins University *Git Hub repo*. They update the covid dataset daily and maintain the record of worldwide covid patients. This is a time series data which is updated daily. It provides us with the information about confirmed deaths and recovered numbers of patients in a country and also their location.

To get local insights, we used data gathered from the following sources.

- National Institute of Health (NIH) Pakistan.
- Covid-19 portal of Pakistan.
- Kaggle repository.

These datasets contain information about the Covid effectees region wise and also the details about quarantine facilities.

## 3 Data Preparation

For data preparation, we have performed the following steps:

• Parse the date.

df['ObservationDate'] = pd.to\_datetime(df['ObservationDate'])

- Store the parsed date in the appropriate format in the dataframe.

  df["Last Update"] = pd.to\_datetime(df["Last Update"])
- Checking the presence of null values.

feature	percentage_of_having_null
SNo	0.000000
ObservationDate	0.000000
Province/State	44.925916
Country/Region	0.000000
Last Update	0.000000
Confirmed	0.000000
Deaths	0.000000
Recovered	0.000000

• Feature generation such as 'Active Cases'.

df['Active Cases'] = df['Confirmed'] - df['Deaths'] - df['Recovered']

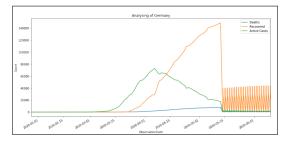
• Creating dummy variables to store country wise data.

```
france = pd.DataFrame(df[df['Country/Region']=='France'])
germany = pd.DataFrame(df[df['Country/Region']=='Germany'])
italy = pd.DataFrame(df[df['Country/Region']=='Italy'])
spain = pd.DataFrame(df[df['Country/Region']=='Spain'])
turkey = pd.DataFrame(df[df['Country/Region']=='Turkey'])
uk = pd.DataFrame(df[df['Country/Region']=='UK'])
china = pd.DataFrame(df[df['Country/Region']=='Mainland China'])
```

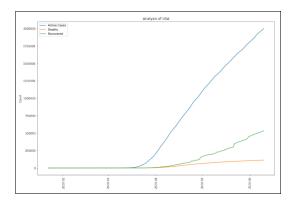
## 4 Data Exploration

Data exploration is one of the most crucial parts of data science methodology as it tells us about the hidden secrets of data. By visualizing the data we can easily find out statistical details about the data and by plotting beautiful graphs, it not only becomes easy to understand but also becomes easy to present the information to others who are not well acquainted with the coding part. We have created multiple graphs which can be seen in the attached notebook. The insights we have gathered after data exploration are:

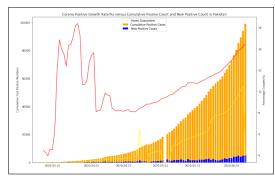
 Germany has managed to keep the counts of confirmed cases and deaths lower, and higher number of recoveries. This shows that they have managed to control the spread which means their SOP's to prevent Covid spread are good.



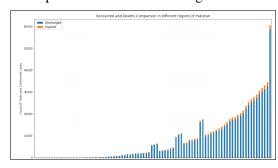
• The USA is the most affected country from Corona Virus compared to other countries.



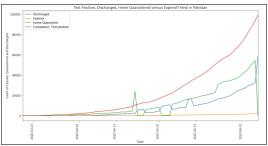
 At first the number of Covid patients started to decrease after the lockdown in Pakistan, but went up again as soon as the soft lockdown was imposed, indicating the failure of lockdown strategies and the carelessness of people.



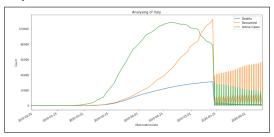
 The death rate in Pakistan is much less than other countries, however considering the financial situation of Pakistan and the poor medical facilitation, the continuously increasing number of cumulative positive tests and relatively smaller rate for discharged patients points towards an alarming situation.



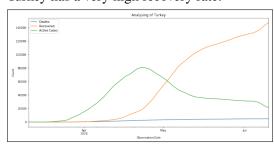
 A high correlation between Cumulative Test positive and Cumulative Tests Performed tells us that as the number of tests increase, the number of positive results for the virus increase, thereby, leading to the greater number of cases in the country. This also suggests that to flatten the curve, it is highly necessary to increase the testing capacity each day substantially so that the impacted people can be quarantined immediately to minimise further spread.



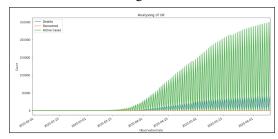
 Italy managed to get control over Covid in may.



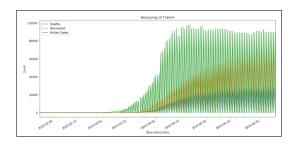
• Turkey has a very high recovery rate.



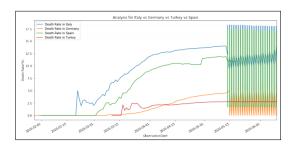
• The UK has a very high spread pointing towards its bad SOP's against Covid.



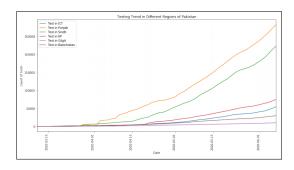
France has a huge spread of Covid but manages to maintain the recovery rate high and death rate low.



• The death rate in Italy is higher than that of Turkey, Germany and spain.



• Punjab is performing the most testing.



# 5 Data Modeling

For modeling purposes, we have used linear regression and SVM. Linear regression is applied after generating polynomial features in order to minimize the error. SVM performed better than Linear regression.

	Dates	Polynonmial	Regression	Prediction	SVM Prediction
0	2020-06-11		[7466427.	543321507]	7260794.727958
1	2020-06-12		[7466427.	543321507]	7260794.727958
2	2020-06-13		[7466427.	543321507]	7260794.727958
3	2020-06-14		[7466427.	543321507]	7260794.727958
4	2020-06-15		[7466427.	543321507]	7260794.727958

#### 6 Presentation and Automation

Since the data for the impact of Covid-19 is varying greatly each day, it is important to inculcate the process of automation in our project pipeline. Therefore, we made sure to automate as much of the data retrieval, exploration and data modelling pipeline as possible, by using Python based notebooks, so that having the most recent data in the pipeline, the further processes can then just be executed sequentially and the outputs would vary accordingly. For the presentation part, our data is well represented in the form of report (this document), our Jupyter notebooks and a PowerPoint Presentation illustrating our results, implications and conclusions.

#### 7 Conclusion

From the data, it is clear that Covid-19 does not have a high mortality rate but its spread rate is very high. Just in few months it was able to spread to all over the world. The recovery rate is greater than the death rate which is a good thing but the alarming rate with which it spreads creates a problem for health facilities. The only way to control its spread is to impose a lockdown and limit the movement of people so that the virus can be contained.

Countries like the USA, United Kingdom, and Italy have a high spreading rate of virus which is because of their carelessness that they showed in earlier days. Statistics show that the best possible solution to combat Covid-19 is to perform more and more testing and quarantine the affected population. This disease has no treatment and it can only be stopped by controlling its spread.

# A Appendix A

# DS Project- k16-3609, k16-3620

June 13, 2020

```
[1]: !pip install plotly
    Requirement already satisfied: plotly in
    /Users/AliKirmani/anaconda3/lib/python3.6/site-packages (4.8.1)
    Requirement already satisfied: six in
    /Users/AliKirmani/anaconda3/lib/python3.6/site-packages (from plotly) (1.12.0)
    Requirement already satisfied: retrying>=1.3.3 in
    /Users/AliKirmani/anaconda3/lib/python3.6/site-packages (from plotly) (1.3.3)
[2]: import numpy as np
     import pandas as pd
     import matplotlib.pyplot as plt
     import plotly.graph_objects as go
     import seaborn as sns
     from sklearn.preprocessing import PolynomialFeatures
     from sklearn.linear_model import LinearRegression,Ridge,Lasso
     from sklearn.model_selection import GridSearchCV
     from sklearn.metrics import mean_squared_error,r2_score
     from sklearn.svm import SVR
     import datetime as dt
     from datetime import timedelta
[3]: df=pd.read_csv('dataset/covid.csv')
```

### 0.1 Inspecting Data

```
[4]: df.head()
[4]:
       SNo ObservationDate Province/State
                                            Country/Region
                                                                Last Update
     0
          1
                 01/22/2020
                                     Anhui
                                            Mainland China 1/22/2020 17:00
     1
          2
                 01/22/2020
                                   Beijing Mainland China
                                                            1/22/2020 17:00
     2
          3
                 01/22/2020
                                 Chongqing Mainland China
                                                            1/22/2020 17:00
     3
                 01/22/2020
                                    Fujian Mainland China 1/22/2020 17:00
          5
                 01/22/2020
                                     Gansu Mainland China 1/22/2020 17:00
```

Confirmed Deaths Recovered

```
2
              6.0
                      0.0
                                  0.0
     3
                                  0.0
              1.0
                      0.0
     4
              0.0
                      0.0
                                  0.0
[5]: df.info()
    <class 'pandas.core.frame.DataFrame'>
    RangeIndex: 39347 entries, 0 to 39346
    Data columns (total 8 columns):
    SNo
                        39347 non-null int64
    ObservationDate
                        39347 non-null object
    Province/State
                        21670 non-null object
    Country/Region
                        39347 non-null object
    Last Update
                        39347 non-null object
    Confirmed
                        39347 non-null float64
    Deaths
                        39347 non-null float64
    Recovered
                        39347 non-null float64
    dtypes: float64(3), int64(1), object(4)
    memory usage: 2.4+ MB
[6]: df.shape
[6]: (39347, 8)
    0.2
         Cleaning Data
[7]: df['ObservationDate']=pd.to_datetime(df['ObservationDate'])
[8]: df["Last Update"] = pd.to_datetime(df["Last Update"])
[9]:
    df.head()
[9]:
        SNo ObservationDate Province/State
                                             Country/Region
                                                                     Last Update \
          1
                 2020-01-22
                                      Anhui Mainland China 2020-01-22 17:00:00
     0
     1
          2
                                    Beijing Mainland China 2020-01-22 17:00:00
                 2020-01-22
     2
          3
                                  Chongqing Mainland China 2020-01-22 17:00:00
                 2020-01-22
     3
          4
                 2020-01-22
                                     Fujian Mainland China 2020-01-22 17:00:00
                 2020-01-22
                                      Gansu Mainland China 2020-01-22 17:00:00
        Confirmed
                   Deaths
                           Recovered
     0
              1.0
                      0.0
                                  0.0
             14.0
     1
                      0.0
                                  0.0
     2
              6.0
                      0.0
                                  0.0
              1.0
     3
                      0.0
                                  0.0
```

0

1

1.0

14.0

0.0

0.0

0.0

0.0

```
4
               0.0
                       0.0
                                  0.0
[10]: df.info()
     <class 'pandas.core.frame.DataFrame'>
     RangeIndex: 39347 entries, 0 to 39346
     Data columns (total 8 columns):
     SNo
                        39347 non-null int64
     ObservationDate
                        39347 non-null datetime64[ns]
     Province/State
                        21670 non-null object
     Country/Region
                        39347 non-null object
     Last Update
                        39347 non-null datetime64[ns]
     Confirmed
                        39347 non-null float64
     Deaths
                        39347 non-null float64
                        39347 non-null float64
     Recovered
     dtypes: datetime64[ns](2), float64(3), int64(1), object(2)
     memory usage: 2.4+ MB
     Checking Null Values
[11]: null checker list=[]
      for feat in df:
          null_checker_list.append([feat,df[feat].isna().mean()*100])
[12]: null_checker_df = pd.DataFrame(null_checker_list, columns=["feature", __

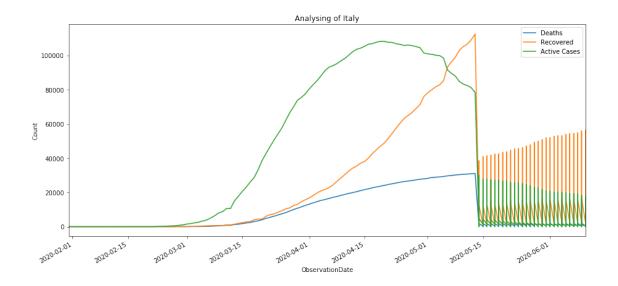
¬"percentage_of_having_null"])
      null_checker_df
[12]:
                 feature percentage_of_having_null
      0
                     SNo
                                           0.000000
      1 ObservationDate
                                           0.000000
      2
         Province/State
                                          44.925916
      3
          Country/Region
                                           0.000000
      4
             Last Update
                                           0.000000
      5
               Confirmed
                                           0.000000
      6
                  Deaths
                                           0.000000
      7
                                           0.000000
               Recovered
[13]: # We have about 44.93% of null values in the feature of "Province/State"
     Introducing New Feature
[14]: df['Active Cases'] = df['Confirmed'] - df['Deaths'] - df['Recovered']
[15]: df.head()
```

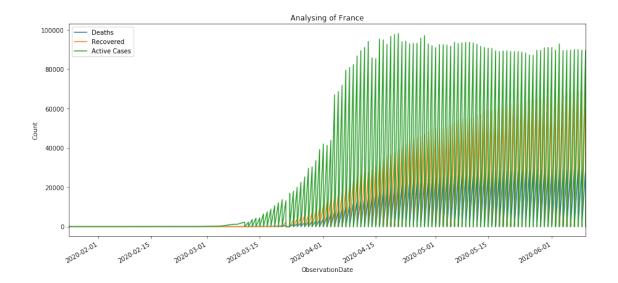
```
[15]:
         SNo ObservationDate Province/State Country/Region
                                                                     Last Update \
           1
                  2020-01-22
                                      Anhui
                                             Mainland China 2020-01-22 17:00:00
      0
                                    Beijing Mainland China 2020-01-22 17:00:00
      1
           2
                  2020-01-22
      2
           3
                  2020-01-22
                                  Chongqing Mainland China 2020-01-22 17:00:00
                                     Fujian Mainland China 2020-01-22 17:00:00
      3
                  2020-01-22
                                      Gansu Mainland China 2020-01-22 17:00:00
           5
                  2020-01-22
         Confirmed Deaths Recovered Active Cases
      0
               1.0
                       0.0
                                  0.0
                                                 1.0
              14.0
                       0.0
                                  0.0
                                                14.0
      1
      2
               6.0
                       0.0
                                  0.0
                                                6.0
                                                1.0
      3
               1.0
                       0.0
                                  0.0
      4
               0.0
                       0.0
                                  0.0
                                                 0.0
          Analysing Data Country Wise
[16]: france = pd.DataFrame(df[df['Country/Region']=='France'])
      germany = pd.DataFrame(df[df['Country/Region']=='Germany'])
      italy = pd.DataFrame(df[df['Country/Region']=='Italy'])
      spain = pd.DataFrame(df[df['Country/Region']=='Spain'])
      turkey = pd.DataFrame(df[df['Country/Region']=='Turkey'])
      uk = pd.DataFrame(df[df['Country/Region']=='UK'])
      china = pd.DataFrame(df[df['Country/Region']=='Mainland China'])
[17]: france.head()
[17]:
           SNo ObservationDate Province/State Country/Region
                                                                      Last Update \
      124
          125
                    2020-01-24
                                          NaN
                                                       France 2020-01-24 17:00:00
      165
                                          NaN
                                                       France 2020-01-25 17:00:00
          166
                    2020-01-25
                                                       France 2020-01-26 16:00:00
      211 212
                    2020-01-26
                                          NaN
      258 259
                    2020-01-27
                                          NaN
                                                       France 2020-01-27 23:59:00
      309
                    2020-01-28
                                          NaN
                                                       France 2020-01-28 23:00:00
          310
           Confirmed Deaths Recovered Active Cases
      124
                 2.0
                                                   2.0
                         0.0
                                    0.0
      165
                 3.0
                         0.0
                                    0.0
                                                  3.0
                 3.0
                         0.0
                                    0.0
                                                   3.0
      211
      258
                 3.0
                         0.0
                                    0.0
                                                  3.0
      309
                 4.0
                         0.0
                                    0.0
                                                  4.0
[18]: fig, ax = plt.subplots(figsize=(15,7))
      ax.set xlabel("Observation Date")
```

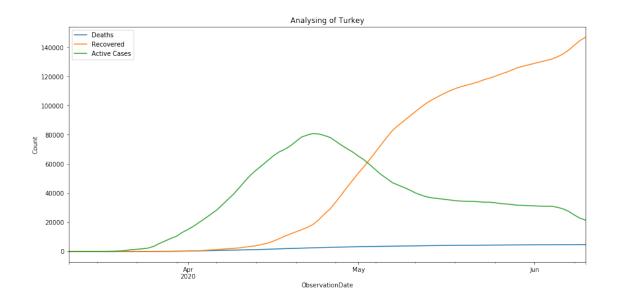
ax.set\_ylabel("Count")

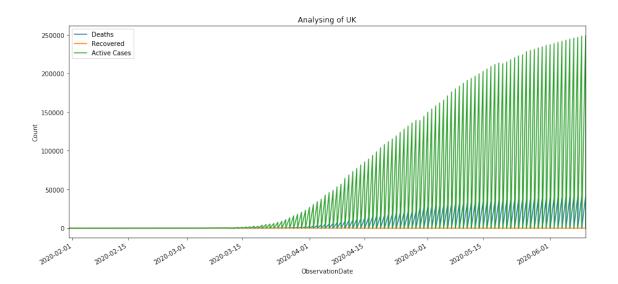
```
italy[['ObservationDate','Deaths','Recovered', 'Active Cases']].
→plot(x='ObservationDate',kind='line',ax=ax, title="Analysing of Italy")
fig, ax = plt.subplots(figsize=(15,7))
ax.set xlabel("Observation Date")
ax.set_ylabel("Count")
france[['ObservationDate','Deaths','Recovered', 'Active Cases']].
→plot(x='ObservationDate',kind='line',ax=ax, title="Analysing of France")
fig, ax = plt.subplots(figsize=(15,7))
ax.set_xlabel("Observation Date")
ax.set_ylabel("Count")
turkey[['ObservationDate','Deaths','Recovered', 'Active Cases']].
→plot(x='ObservationDate',kind='line',ax=ax, title="Analysing of Turkey")
fig, ax = plt.subplots(figsize=(15,7))
ax.set xlabel("Observation Date")
ax.set_ylabel("Count")
uk[['ObservationDate', 'Deaths', 'Recovered', 'Active Cases']].
→plot(x='ObservationDate',kind='line',ax=ax, title="Analysing of UK")
fig, ax = plt.subplots(figsize=(15,7))
ax.set xlabel("Observation Date")
ax.set_ylabel("Count")
germany[['ObservationDate','Deaths','Recovered', 'Active Cases']].
→plot(x='ObservationDate',kind='line',ax=ax, title="Analysing of Germany")
fig, ax = plt.subplots(figsize=(15,7))
ax.set xlabel("Observation Date")
ax.set_ylabel("Count")
china[['ObservationDate', 'Deaths', 'Recovered', 'Active Cases']].
→plot(x='ObservationDate',kind='line',ax=ax, title="Analysing of China")
fig, ax = plt.subplots(figsize=(15,7))
ax.set_xlabel("Observation Date")
ax.set_ylabel("Count")
spain[['ObservationDate','Deaths','Recovered', 'Active Cases']].
 →plot(x='ObservationDate',kind='line',ax=ax, title="Analysing of Spain")
```

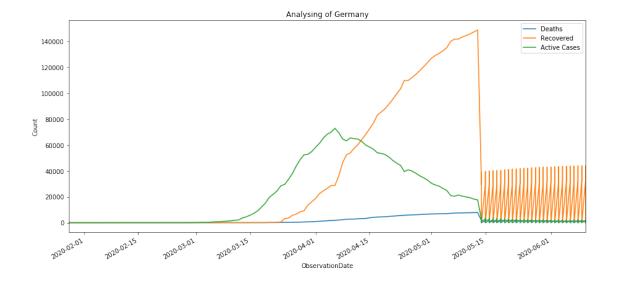
[18]: <matplotlib.axes.\_subplots.AxesSubplot at 0x11b9c82b0>

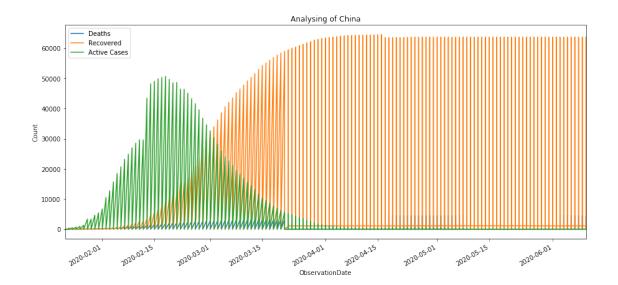


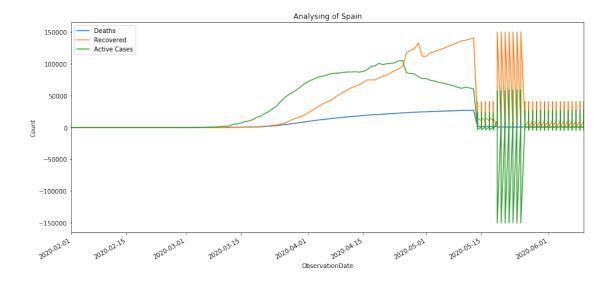


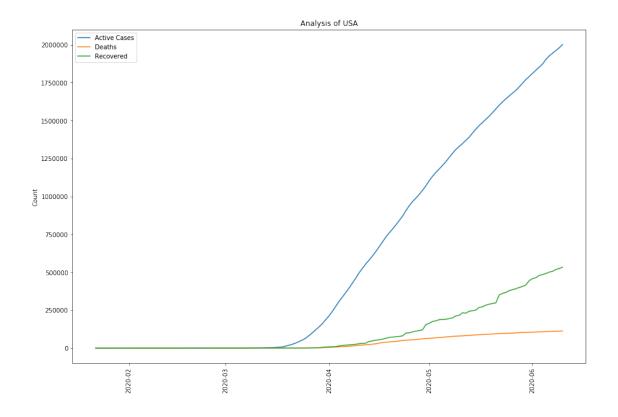








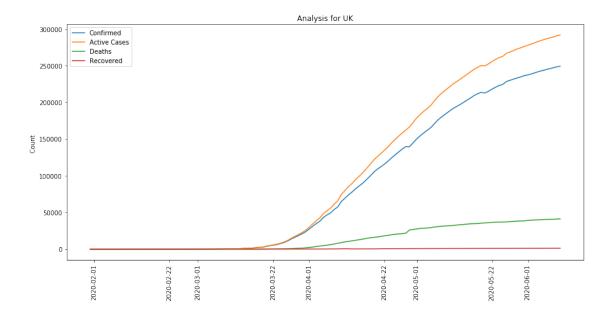




[21]: # It can be observed is that US is one of the hardest hit countries from Corona $_{\sqcup}$   $\hookrightarrow$  Virus compared to other countries

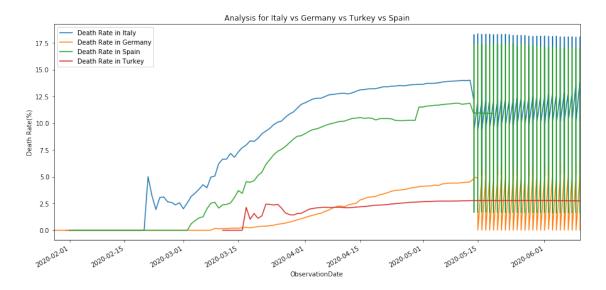
#### Deep-Diving inside country-wise data

[22]: (array([737456., 737477., 737485., 737506., 737516., 737537., 737546., 737567., 737577.]), <a list of 9 Text xticklabel objects>)



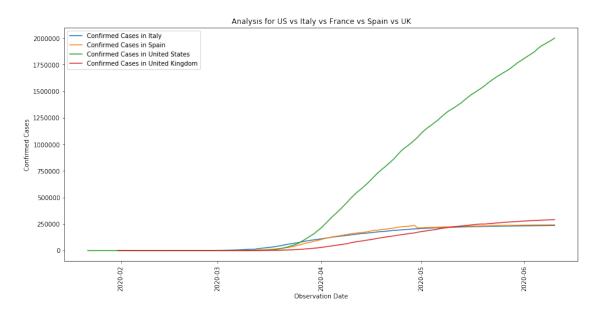
```
[23]: | italy['Death Rate in Italy'] = ((italy['Deaths']/italy['Confirmed'])*100)
     germany['Death Rate in Germany'] = (germany['Deaths']/germany['Confirmed'])*100
     spain['Death Rate in Spain'] = (spain['Deaths']/spain['Confirmed'])*100
     turkey['Death Rate in Turkey'] = (turkey['Deaths']/turkey['Confirmed'])*100
      #Recoveries
     italy['Recovery Rate in Italy'] = ((italy['Recovered']/italy['Confirmed'])*100)
     germany['Recovery Rate in Germany'] = (germany['Recovered']/
      spain['Recovery Rate in Spain'] = (spain['Recovered']/spain['Confirmed'])*100
     turkey['Recovery Rate in Turkey'] = (turkey['Recovered']/
       →turkey['Confirmed'])*100
[24]: uk_agg['Death Rate in United Kingdom'] = (uk_agg['Deaths']/
      →uk_agg['Confirmed'])*100
     uk_agg['Recovery Rate in United Kingdom'] = (uk_agg['Recovered']/
       →uk_agg['Confirmed'])*100
[25]: fig, ax = plt.subplots(figsize=(15,7))
     ax.set_xlabel("Observation Date")
     ax.set ylabel("Death Rate(%)")
     italy[['ObservationDate','Death Rate in Italy']].
      →plot(x='ObservationDate',kind='line',ax=ax)
     germany[['ObservationDate','Death Rate in Germany']].
       →plot(x='ObservationDate',kind='line',ax=ax)
```

#### [25]: <matplotlib.axes.\_subplots.AxesSubplot at 0x11ca930f0>



```
[26]: # Italy
     italy_agg=pd.pivot_table(italy,__
      →index=['ObservationDate'], values=['Confirmed', 'Deaths', 'Recovered', 'Active

      # Spain
     spain_agg=pd.pivot_table(spain,__
      →index=['ObservationDate'], values=['Confirmed', 'Deaths', 'Recovered', 'Active_
      # Plotting
     fig, ax = plt.subplots(figsize=(15,7))
     plt.plot(italy_agg.index,italy_agg['Confirmed'],label='Confirmed Cases inu
      →Italy')
     plt.plot(spain_agg.index,spain_agg['Confirmed'],label='Confirmed Cases in_
      →Spain')
     plt.plot(us_agg.index,us_agg['Confirmed'],label='Confirmed Cases in United_
      ⇔States')
```



#### 0.4 Most infected Countries

[28]: Data\_country\_wise.head()

```
[28]: Country/Region Confirmed
0 US 84900037.0
1 Spain 15609455.0
2 Brazil 15540416.0
```

```
3
                Italy 15399969.0
     4
               Russia
                      13936698.0
[29]: Recovered_country_wise.head()
[29]:
        Country/Region
                        Recovered
                       15449638.0
     0
     1
               Germany
                        8608350.0
     2
                 Spain
                        8110890.0
     3 Mainland China
                        7906544.0
     4
                        6760057.0
                 Italy
[30]: fig = go.Figure(data=[go.Bar(x=Recovered_country_wise['Country/Region'][0:20],
      →20],text=Recovered_country_wise['Recovered'][0:
      →20],textposition='auto',marker_color='green',
             )1)
     fig.update_layout(title='Most 20 infected_
      →Countries', xaxis_title="Countries", yaxis_title="Recovered_
      )
     fig.show()
     0.5 Pakistan vs Rest of the World
[31]: df_pak=pd.read_excel('dataset/covid_pakistan.xlsx')
[32]: df_pak.head()
[32]:
        Unnamed: 0
                   Cumulative
                               Cumulative Test positive
                 4
     0
                           48
                 5
                                                      0
     1
                           61
     2
                 6
                           84
                                                     14
     3
                 7
                           20
                                                      0
     4
                 8
                            3
                                                      0
        Cumulative tests performed
                                                  Date
                                                       Discharged Expired
     0
                                80 2020-03-11 00:00:00
                                                                0
                                                                         0
                                                                0
                                95 2020-03-11 00:00:00
                                                                         0
     1
     2
                               171 2020-03-11 00:00:00
                                                                         0
     3
                                    2020-03-11 00:00:00
                                                                0
                                28
                                                                         0
                                   2020-03-11 00:00:00
                             (last 24 hrs)
                                           Region Still admitted \
        Home Quarantine New
     0
                                         3
                                              ICT
                   NaN
```

```
1
                     NaN
                                            6 Punjab
                                                                    0
      2
                                                                    13
                     NaN
                                                Sindh
      3
                     NaN
                                            0
                                                   ΚP
                                                                    0
      4
                                                 KPTD
                     NaN
                                                                    0
        Tests performed in last 24 hours
      0
      1
                                         7
      2
                                        55
      3
                                         2
      4
                                         0
[33]: df_pak['Date']=pd.to_datetime(df_pak['Date'])
[34]: df_pak.info()
     <class 'pandas.core.frame.DataFrame'>
     RangeIndex: 629 entries, 0 to 628
     Data columns (total 12 columns):
     Unnamed: 0
                                           629 non-null int64
     Cumulative
                                           629 non-null int64
     Cumulative Test positive
                                           629 non-null int64
                                           629 non-null int64
     Cumulative tests performed
     Date
                                           629 non-null datetime64[ns]
                                           629 non-null int64
     Discharged
     Expired
                                           629 non-null int64
     Home Quarantine
                                           490 non-null float64
     New (last 24 hrs)
                                           629 non-null int64
     Region
                                           629 non-null object
     Still admitted
                                           629 non-null int64
                                           629 non-null object
     Tests performed in last 24 hours
     dtypes: datetime64[ns](1), float64(1), int64(8), object(2)
     memory usage: 59.1+ KB
[35]: null_checker_list=[]
      for feat in df_pak:
          null_checker_list.append([feat,df_pak[feat].isna().mean()*100])
[36]: null_checker_df = pd.DataFrame(null_checker_list, columns=["feature",__

¬"percentage_of_having_null"])
      null_checker_df
[36]:
                                     feature percentage_of_having_null
      0
                                 Unnamed: 0
                                                               0.000000
      1
                                  Cumulative
                                                               0.000000
                  Cumulative Test positive
      2
                                                               0.000000
      3
                Cumulative tests performed
                                                               0.000000
```

```
4
                                        Date
                                                                0.000000
      5
                                 Discharged
                                                                0.000000
      6
                                     Expired
                                                                0.000000
      7
                            Home Quarantine
                                                              22.098569
      8
                         New (last 24 hrs)
                                                                0.000000
      9
                                      Region
                                                                0.000000
      10
                             Still admitted
                                                                0.000000
          Tests performed in last 24 hours
                                                                0.000000
[37]: df.describe()
[37]:
                      SNo
                                Confirmed
                                                 Deaths
                                                             Recovered
                                                                          Active Cases
      count
             39347.000000
                            39347.000000
                                           39347.000000
                                                          39347.000000
                                                                          39347.000000
             19674.000000
                             7293.122017
                                                           2647.786261
                                                                           4184.199964
     mean
                                             461.135792
      std
             11358.644858
                            26414.783040
                                            2389.851722
                                                          16048.041849
                                                                          23416.398849
                                0.000000
                                               0.000000
     min
                 1.000000
                                                              0.000000 -533504.000000
      25%
              9837.500000
                                40.000000
                                               0.000000
                                                                              7.000000
                                                              0.000000
      50%
             19674.000000
                              436.000000
                                               6.000000
                                                             25.000000
                                                                            127.000000
      75%
                             2686.000000
                                              78.000000
             29510.500000
                                                            528.000000
                                                                           1329.000000
             39347.000000 405843.000000
      max
                                          41128.000000
                                                         533504.000000
                                                                         349614.000000
[38]:
     df_pak['Region'].unique()
[38]: array(['ICT', 'Punjab', 'Sindh', 'KP', 'KPTD', 'Balochistan', 'AJK', 'GB',
             'Mobile Lab'], dtype=object)
[39]: # The dataset for Pakistan contains the COVID-19 data for the above mentioned
       \rightarrow regions
[40]: # getting the data region wise below:
      ict = pd.DataFrame(df_pak[df_pak['Region']=='ICT'])
      punjab = pd.DataFrame(df_pak[df_pak['Region'] == 'Punjab'])
      sindh = pd.DataFrame(df_pak[df_pak['Region']=='Sindh'])
      kp = pd.DataFrame(df_pak[df_pak['Region']=='KP'])
      kptd = pd.DataFrame(df_pak[df_pak['Region'] == 'KPTD'])
      balochistan = pd.DataFrame(df_pak[df_pak['Region']=='Balochistan'])
      gb = pd.DataFrame(df_pak[df_pak['Region']=='GB'])
[41]: # Aggregating data date wise for PK and her regions
      pk agg=pd.pivot_table(df_pak, index=['Date'],values=['Cumulative','Cumulative __
       →Test positive', 'Cumulative tests performed', 'Discharged', 'Expired', 'Home (
       'New (last 24 hrs)',
       →'Region', 'Still admitted', 'Tests performed in last 24 hours'], aggfunc=np.
       ⇒sum)
```

```
ict_agg=pd.pivot_table(ict, index=['Date'], values=['Cumulative', 'Cumulative u
→Test positive', 'Cumulative tests performed', 'Discharged', 'Expired', 'Home (

    Quarantine¹,
                                                  'New (last 24 hrs)',,,
→ 'Region', 'Still admitted', 'Tests performed in last 24 hours'], aggfunc=np.
⇒sum)
punjab_agg=pd.pivot_table(punjab,__
 →index=['Date'], values=['Cumulative', 'Cumulative Test positive', 'Cumulative ⊔
→tests performed', 'Discharged', 'Expired', 'Home Quarantine',
                                                  'New (last 24 hrs)',
→ 'Region', 'Still admitted', 'Tests performed in last 24 hours'],aggfunc=np.
⇒sum)
kp_agg=pd.pivot_table(kp, index=['Date'], values=['Cumulative', 'Cumulative Test_
⇒positive', 'Cumulative tests performed', 'Discharged', 'Expired', 'Home (

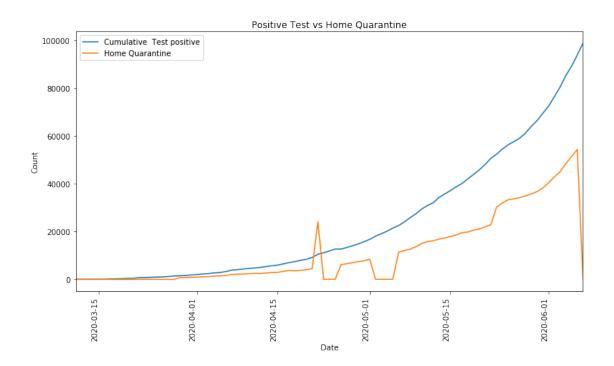
    Quarantine',
                                                  'New (last 24 hrs)',
→'Region', 'Still admitted', 'Tests performed in last 24 hours'],aggfunc=np.
⇔sum)
sindh_agg=pd.pivot_table(sindh, index=['Date'], values=['Cumulative', 'Cumulative_
→ Test positive', 'Cumulative tests performed', 'Discharged', 'Expired', 'Home U
'New (last 24 hrs)',,,
→ 'Region', 'Still admitted', 'Tests performed in last 24 hours'], aggfunc=np.
⇒sum)
balochistan_agg=pd.pivot_table(balochistan,__
→index=['Date'], values=['Cumulative', 'Cumulative Test positive', 'Cumulative ⊔
→tests performed', 'Discharged', 'Expired', 'Home Quarantine',
                                                  'New (last 24 hrs)',
→ 'Region', 'Still admitted', 'Tests performed in last 24 hours'], aggfunc=np.
gb_agg=pd.pivot_table(gb, index=['Date'],values=['Cumulative','Cumulative Test_
→positive','Cumulative tests performed','Discharged','Expired','Home

    Quarantine¹,
                                                  'New (last 24 hrs)',
→'Region', 'Still admitted', 'Tests performed in last 24 hours'],aggfunc=np.
 ⇒sum)
```

#### [42]: pk\_agg.head()

#### [42]: Cumulative Cumulative Test positive \ Date 2020-03-11 248 19 2020-03-12 271 20 2020-03-13 318 21 2020-03-14 363 28 2020-03-15 382 31

```
Cumulative tests performed Discharged Expired Home Quarantine \
      Date
                                                         1
                                                                  0
                                                                                 0.0
      2020-03-11
                                           422
                                                         2
      2020-03-12
                                           471
                                                                  0
                                                                                 0.0
                                                         2
      2020-03-13
                                           531
                                                                  0
                                                                                 0.0
      2020-03-14
                                           609
                                                         3
                                                                  0
                                                                                 0.0
      2020-03-15
                                           686
                                                         3
                                                                  0
                                                                                 0.0
                  New (last 24 hrs) Still admitted
      Date
      2020-03-11
                                  14
                                                   18
      2020-03-12
                                  23
                                                   18
      2020-03-13
                                  47
                                                   19
      2020-03-14
                                  45
                                                   25
      2020-03-15
                                  19
                                                   28
[43]: fig, ax = plt.subplots(figsize=(12,7))
      \#pk\_agg['Cumulative\ tests\ performed'].plot(x=['Date'],kind='line',\ ax=ax)
      pk_agg['Cumulative Test positive'].plot(x=['Date'],kind='line', ax=ax)
      pk_agg['Home Quarantine'].plot(x=['Date'],kind='line', ax=ax)
      ax.legend()
      plt.title("Positive Test vs Home Quarantine")
      plt.ylabel('Count')
      plt.xticks(rotation=90)
[43]: (array([737499., 737516., 737530., 737546., 737560., 737577.]),
       <a list of 6 Text xticklabel objects>)
```



#### [44]:df\_pak.corr() [44]:Unnamed: 0 Cumulative \ Unnamed: 0 1.000000 0.508733 Cumulative 0.508733 1.000000 Cumulative Test positive 0.982474 0.502389 tests performed Cumulative 0.510324 0.992842 Discharged 0.447234 0.890718 Expired 0.478284 0.869614 Home Quarantine 0.481495 0.858234 New (last 24 hrs) 0.908351 0.543413 Still admitted 0.401935 0.677810 Cumulative Test positive \ Unnamed: 0 0.502389 Cumulative 0.982474 Cumulative Test positive 1.000000 Cumulative tests performed 0.966707 Discharged 0.933432 Expired 0.911135 Home Quarantine 0.872000 New (last 24 hrs) 0.878191 Still admitted 0.602354

Cumulative tests performed Discharged \

```
Cumulative Test positive
                                                       0.966707
                                                                   0.933432
      Cumulative tests performed
                                                       1.000000
                                                                   0.864377
      Discharged
                                                       0.864377
                                                                   1.000000
      Expired
                                                       0.854428
                                                                   0.837319
      Home Quarantine
                                                       0.839296
                                                                   0.710207
      New (last 24 hrs)
                                                                   0.779872
                                                       0.912185
      Still admitted
                                                       0.720824
                                                                   0.475186
                                     Expired Home Quarantine New (last 24 hrs) \
      Unnamed: 0
                                   0.478284
                                                     0.481495
                                                                         0.543413
      Cumulative
                                   0.869614
                                                     0.858234
                                                                         0.908351
      Cumulative Test positive
                                   0.911135
                                                     0.872000
                                                                         0.878191
      Cumulative tests performed 0.854428
                                                     0.839296
                                                                         0.912185
      Discharged
                                   0.837319
                                                     0.710207
                                                                         0.779872
      Expired
                                   1.000000
                                                     0.802033
                                                                         0.767273
      Home Quarantine
                                                     1.000000
                                                                         0.735271
                                   0.802033
      New (last 24 hrs)
                                   0.767273
                                                     0.735271
                                                                         1.000000
      Still admitted
                                   0.516234
                                                     0.413338
                                                                         0.704930
                                   Still admitted
      Unnamed: 0
                                          0.401935
      Cumulative
                                          0.677810
      Cumulative Test positive
                                          0.602354
      Cumulative tests performed
                                          0.720824
      Discharged
                                          0.475186
      Expired
                                          0.516234
      Home Quarantine
                                          0.413338
      New (last 24 hrs)
                                          0.704930
      Still admitted
                                          1.000000
[45]: | # A high correlation between Cumulative Test positive and Cumulative Tests
       →Performed tells us that as the number of
      # tests increase, the number of positive result for the virus increase, \Box
      → thereby, leading to the greater number of
      # cases in country.
      # This also suggests that to flatten the curve, it is highly necessary to \Box
       →increase the testing capacity each day substantially
      # so that the impacted people can be quarantined immediately to minimise_{f \sqcup}
       \hookrightarrow further spreading.
[46]: pk_agg['Test Positive Rate in Pakistan'] = (pk_agg['Cumulative Test positive']/
       →pk_agg['Cumulative tests performed'])*100
      fig, ax1 = plt.subplots(figsize=(15,10))
```

0.510324

0.992842

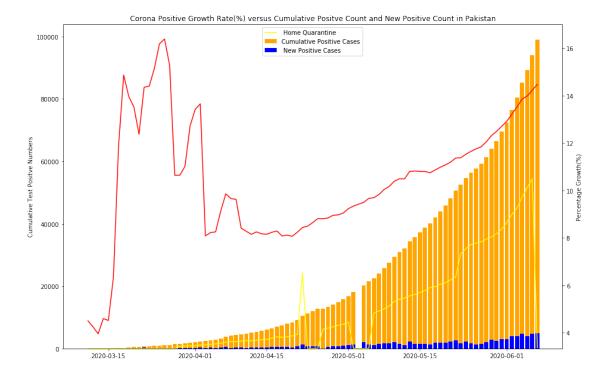
0.447234

0.890718

Unnamed: 0

Cumulative

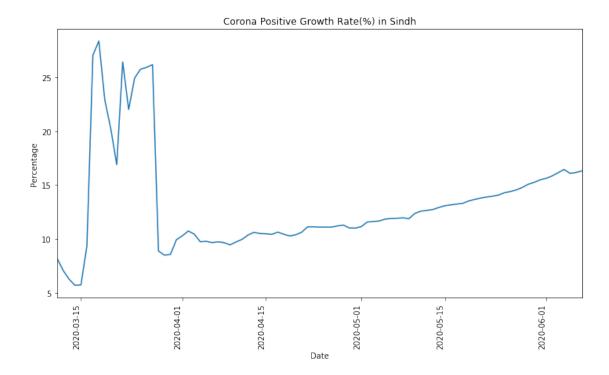
#### [46]: Text(0, 0.5, 'Percentage Growth(%)')



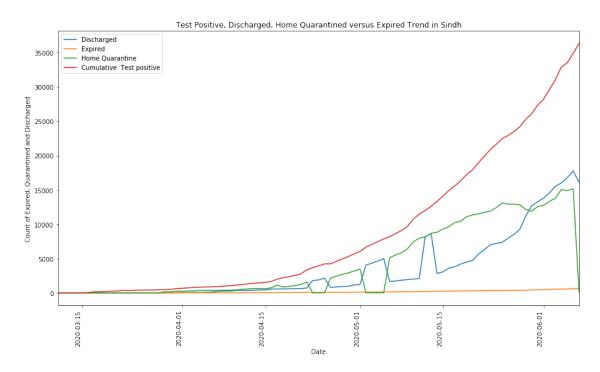
[47]: # At first the number started to decrease after the lockdown, but went up¬ ⇒again, indicating the failure of # lockdown strategies and the carelessness of people

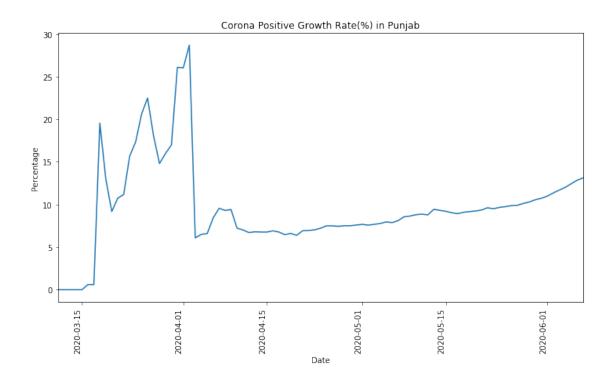
```
[48]: sindh_agg['Test Positive Rate in Sindh'] = (sindh_agg['Cumulative Test_\_ → positive']/sindh_agg['Cumulative tests performed'])*100
fig, ax = plt.subplots(figsize=(12,7))
sindh_agg['Test Positive Rate in Sindh'].plot(x='Date',kind='line', ax=ax)
plt.title("Corona Positive Growth Rate(%) in Sindh")
plt.ylabel('Percentage')
plt.xticks(rotation=90)
```

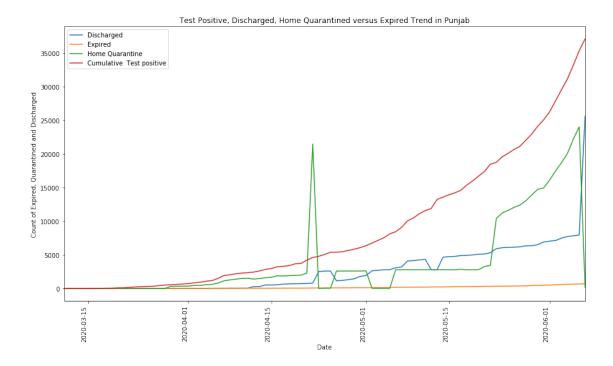
[48]: (array([737499., 737516., 737530., 737546., 737560., 737577.]), <a list of 6 Text xticklabel objects>)

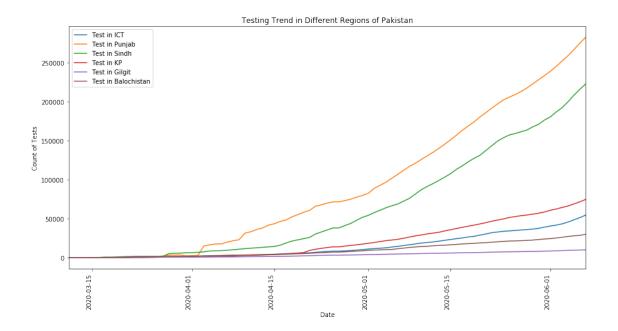


[49]: (array([737499., 737516., 737530., 737546., 737560., 737577.]), <a list of 6 Text xticklabel objects>)

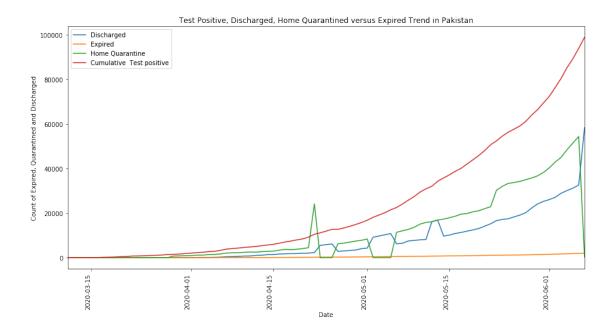








[53]: (array([737499., 737516., 737530., 737546., 737560., 737577.]), <a list of 6 Text xticklabel objects>)

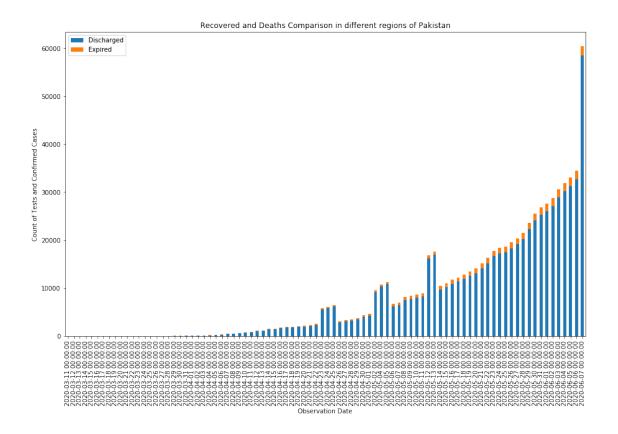


```
[54]: # Alhamdulillah, the expiry rate for COVID-19 in Pakistan is much less than other countries, however,
# considering the financial situation of Pakistan and the poor medical of facilitation, the continuously
# increasing of cumulative positive test and relatively smaller rate for other o
```

```
[55]: pk_df=pd.DataFrame(pk_agg)
pk_df['ObservationDate'] = pk_df.index
pk_df.head()
```

	pn_ur · noud()								
[55]:		Cumulative	Cumulative Test	positive \					
	Date								
	2020-03-11	248		19					
	2020-03-12	271		20					
	2020-03-13	318		21					
	2020-03-14	363		28					
	2020-03-15	382		31					
		Cumulative	tests performed	Discharged	Expired	Home Quarantine	\		
	Date								
	2020-03-11		422	1	0	0.0			
	2020-03-12		471	2	0	0.0			
	2020-03-13		531	2	0	0.0			
	2020-03-14		609	3	0	0.0			
	2020-03-15		686	3	0	0.0			

```
New (last 24 hrs) Still admitted \
      Date
      2020-03-11
                                  14
                                                  18
      2020-03-12
                                  23
                                                  18
      2020-03-13
                                  47
                                                  19
      2020-03-14
                                  45
                                                  25
      2020-03-15
                                  19
                                                  28
                  Test Positive Rate in Pakistan ObservationDate
     Date
      2020-03-11
                                        4.502370
                                                      2020-03-11
      2020-03-12
                                        4.246285
                                                      2020-03-12
      2020-03-13
                                        3.954802
                                                      2020-03-13
      2020-03-14
                                        4.597701
                                                      2020-03-14
      2020-03-15
                                        4.518950
                                                      2020-03-15
[56]: fig, ax = plt.subplots(figsize=(15,9))
      pk_df.plot.bar(x='ObservationDate',y=['Discharged','Expired'],stacked=True,u
      →ax=ax)
      ax.legend()
      plt.title("Recovered and Deaths Comparison in different regions of Pakistan")
      plt.xlabel('Observation Date')
      plt.ylabel('Count of Tests and Confirmed Cases')
      plt.xticks(rotation=90)
[56]: (array([ 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16,
              17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33,
              34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50,
              51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67,
              68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84,
              85, 86, 87]), <a list of 88 Text xticklabel objects>)
```



#### 0.6 Applying Various Modelling Techniques

```
[57]: datewise=df.groupby(["ObservationDate"]).agg({"Confirmed":'sum', "Recovered":
      datewise["Days Since"] = datewise.index-datewise.index.min()
[58]:
     datewise.head()
[58]:
                                 Recovered Deaths Days Since
                       Confirmed
      ObservationDate
      2020-01-22
                          555.0
                                      28.0
                                              17.0
                                                       0 days
      2020-01-23
                          653.0
                                      30.0
                                              18.0
                                                       1 days
      2020-01-24
                          941.0
                                      36.0
                                              26.0
                                                       2 days
      2020-01-25
                                              42.0
                                                       3 days
                          1438.0
                                      39.0
      2020-01-26
                                      52.0
                                              56.0
                                                       4 days
                          2118.0
```

### Applying Polynomial Regression on Confirmed Cases

```
[59]: train_ml=datewise.iloc[:int(datewise.shape[0]*0.95)] valid_ml=datewise.iloc[int(datewise.shape[0]*0.95):]
```

```
[60]: poly = PolynomialFeatures(degree = 7)
[61]: train_poly=poly.fit_transform(np.array(train_ml["Days_Since"]).reshape(-1,1))
      valid_poly=poly.fit_transform(np.array(valid_ml["Days Since"]).reshape(-1,1))
      y=train ml["Confirmed"]
      linreg=LinearRegression(normalize=True)
      linreg.fit(train_poly,y)
[61]: LinearRegression(copy_X=True, fit_intercept=True, n_jobs=None, normalize=True)
[62]: model scores=[]
      prediction_poly=linreg.predict(valid_poly)
      rmse_poly=np.sqrt(mean_squared_error(valid_ml["Confirmed"],prediction_poly))
      model_scores.append(rmse_poly)
      print("Root Mean Squared Error for Polynomial Regression: ",rmse_poly)
     Root Mean Squared Error for Polynomial Regression: 61671.68154393518
[63]: comp_data=poly.fit_transform(np.array(datewise["Days Since"]).reshape(-1,1))
      plt.figure(figsize=(11,6))
      predictions_poly=linreg.predict(comp_data)
      fig=go.Figure()
      fig.add_trace(go.Scatter(x=datewise.index, y=datewise["Confirmed"],
                          mode='lines+markers',name="Train Data for Confirmed Cases"))
      fig.add_trace(go.Scatter(x=datewise.index, y=predictions_poly,
                          mode='lines',name="Polynomial Regression Best Fit",
                          line=dict(color='black', dash='dot')))
      fig.update_layout(title="Confirmed Cases Polynomial Regression Prediction",
                       xaxis_title="Date",yaxis_title="Confirmed Cases",
                       legend=dict(x=0,y=1,traceorder="normal"))
      fig.show()
     <Figure size 792x432 with 0 Axes>
[64]: datewise["Days Since"] = datewise["Days Since"].astype(int)
      new_prediction_poly=[]
      for i in range(1,18):
          new_date_poly=poly.fit_transform(np.array(datewise["Days Since"].max()).
       \rightarrowreshape(-1,1))
          new_prediction_poly.append(linreg.predict(new_date_poly)[0])
[65]: new_prediction_poly
```

```
[65]: [7466427.543321507,
      7466427.543321507,
       7466427.543321507,
       7466427.543321507,
       7466427.543321507,
       7466427.543321507,
       7466427.543321507,
       7466427.543321507,
       7466427.543321507,
       7466427.543321507,
       7466427.543321507,
       7466427.543321507,
       7466427.543321507,
       7466427.543321507,
       7466427.543321507,
       7466427.543321507,
       7466427.543321507]
     Applying SVM on Confirmed Cases
[66]: train ml=datewise.iloc[:int(datewise.shape[0]*0.95)]
      valid_ml=datewise.iloc[int(datewise.shape[0]*0.95):]
[67]: svm=SVR(C=1,degree=5,kernel='poly',epsilon=0.01)
      svm.fit(np.array(train_ml["Days Since"]).reshape(-1,1),np.
       →array(train_ml["Confirmed"]).reshape(-1,1))
     /Users/AliKirmani/anaconda3/lib/python3.6/site-
     packages/sklearn/utils/validation.py:744: DataConversionWarning:
     A column-vector y was passed when a 1d array was expected. Please change the
     shape of y to (n_samples, ), for example using ravel().
[67]: SVR(C=1, cache_size=200, coef0=0.0, degree=5, epsilon=0.01, gamma='scale',
          kernel='poly', max_iter=-1, shrinking=True, tol=0.001, verbose=False)
[68]: prediction_valid_svm=svm.predict(np.array(valid_ml["Days Since"]).reshape(-1,1))
[69]: model_scores.append(np.
       sqrt(mean_squared_error(valid_ml["Confirmed"],prediction_valid_svm)))
      print("Root Mean Square Error for SVM: ",np.
       →sqrt(mean squared error(valid ml["Confirmed"],prediction valid svm)))
```

Root Mean Square Error for SVM: 519284.2045559829

<Figure size 792x432 with 0 Axes>

```
[71]: new_date=[]
    new_prediction_lr=[]
    new_prediction_svm=[]
    for i in range(1,18):
        new_date.append(datewise.index[-1]+timedelta(days=i))
        new_prediction_lr.append(linreg.predict(poly.fit_transform(np.
        →array(datewise["Days Since"].max()).reshape(-1,1))))
        new_prediction_svm.append(svm.predict(np.array(datewise["Days Since"].
        →max()+i).reshape(-1,1))[0])
```

```
[72]: Dates Polynonmial Regression Prediction SVM Prediction 0 2020-06-11 [7466427.543321507] 7260794.727958 1 2020-06-12 [7466427.543321507] 7260794.727958 2 2020-06-13 [7466427.543321507] 7260794.727958 3 2020-06-14 [7466427.543321507] 7260794.727958 4 2020-06-15 [7466427.543321507] 7260794.727958
```

## B Appendix B

## Data Retrieval- k16-3609, k16-3620

June 14, 2020

```
[1]: !pip install requests
     !pip install beautifulsoup4
    Requirement already satisfied: requests in
    /Users/AliKirmani/anaconda3/lib/python3.6/site-packages (2.22.0)
    Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1 in
    /Users/AliKirmani/anaconda3/lib/python3.6/site-packages (from requests) (1.24.2)
    Requirement already satisfied: certifi>=2017.4.17 in
    /Users/AliKirmani/anaconda3/lib/python3.6/site-packages (from requests)
    (2019.9.11)
    Requirement already satisfied: idna<2.9,>=2.5 in
    /Users/AliKirmani/anaconda3/lib/python3.6/site-packages (from requests) (2.8)
    Requirement already satisfied: chardet<3.1.0,>=3.0.2 in
    /Users/AliKirmani/anaconda3/lib/python3.6/site-packages (from requests) (3.0.4)
    Requirement already satisfied: beautifulsoup4 in
    /Users/AliKirmani/anaconda3/lib/python3.6/site-packages (4.8.0)
    Requirement already satisfied: soupsieve>=1.2 in
    /Users/AliKirmani/anaconda3/lib/python3.6/site-packages (from beautifulsoup4)
    (1.9.3)
[2]: import requests
     from bs4 import BeautifulSoup
     import pandas as pd
[3]: res = requests.get("https://www.worldometers.info/coronavirus")
[4]: print(res.text[:10500])
    <!DOCTYPE html>
    <!--[if IE 8]> <html lang="en" class="ie8"> <![endif]-->
    <!--[if IE 9]> <html lang="en" class="ie9"> <![endif]-->
    <!--[if !IE]><!-->
    <html lang="en">
    <!--<![endif]-->
    <head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
```

```
<title>Coronavirus Update (Live): 7,875,522 Cases and 432,519 Deaths from
COVID-19 Virus Pandemic - Worldometer</title>
<meta name="description" content="Live statistics and coronavirus news tracking</pre>
the number of confirmed cases, recovered patients, tests, and death toll due to
the COVID-19 coronavirus from Wuhan, China. Coronavirus counter with new cases,
deaths, and number of tests per 1 Million population. Historical data and info.
Daily charts, graphs, news and updates">
<link rel="shortcut icon" href="/favicon/favicon.ico" type="image/x-icon">
<link rel="apple-touch-icon" sizes="57x57" href="/favicon/apple-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicon/apple-icon-60x60.png">
<link rel="apple-touch-icon" sizes="72x72" href="/favicon/apple-icon-72x72.png">
<link rel="apple-touch-icon" sizes="76x76" href="/favicon/apple-icon-76x76.png">
<link rel="apple-touch-icon" sizes="114x114" href="/favicon/apple-</pre>
icon-114x114.png">
<link rel="apple-touch-icon" sizes="120x120" href="/favicon/apple-</pre>
icon-120x120.png">
<link rel="apple-touch-icon" sizes="144x144" href="/favicon/apple-</pre>
icon-144x144.png">
<link rel="apple-touch-icon" sizes="152x152" href="/favicon/apple-</pre>
icon-152x152.png">
<link rel="apple-touch-icon" sizes="180x180" href="/favicon/apple-</pre>
icon-180x180.png">
<link rel="icon" type="image/png" sizes="192x192" href="/favicon/android-</pre>
icon-192x192.png">
<link rel="icon" type="image/png" sizes="32x32"</pre>
href="/favicon/favicon-32x32.png">
<link rel="icon" type="image/png" sizes="96x96"</pre>
href="/favicon/favicon-96x96.png">
<link rel="icon" type="image/png" sizes="16x16"</pre>
href="/favicon/favicon-16x16.png">
<link rel="manifest" href="/favicon/manifest.json">
<meta name="msapplication-TileColor" content="#ffffff">
<meta name="msapplication-TileImage" content="/favicon/ms-icon-144x144.png">
<meta name="theme-color" content="#ffffff">
<meta property="og:image"</pre>
content="http://www.worldometers.info/img/worldometers-fb.jpg" />
<link href="/css/bootstrap.min.css" rel="stylesheet">
<link href="/wm16.css" rel="stylesheet">
<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/font-</pre>
awesome/4.4.0/css/font-awesome.min.css">
<!--[if lt IE 9]>
      <script
```

<meta name="viewport" content="width=device-width, initial-scale=1">

```
src="https://oss.maxcdn.com/html5shiv/3.7.2/html5shiv.min.js"></script>
      <script
src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>
    <![endif]-->
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/2.1.3/jquery.min.js"></script>
<script src="/js/bootstrap.min.js"></script>
<script src="/js/ie10-viewport-bug-workaround.js"></script>
<link rel="stylesheet" type="text/css"</pre>
href="https://cdn.datatables.net/1.10.19/css/dataTables.bootstrap.min.css" />
<script type="text/javascript"</pre>
src="https://cdn.datatables.net/1.10.19/js/jquery.dataTables.min.js"></script>
<script type="text/javascript" src="https://cdn.datatables.net/1.10.19/js/dataTa</pre>
bles.bootstrap.min.js"></script>
<script type="text/javascript" class="init">
                $.extend( $.fn.dataTable.defaults, {
    responsive: true
});
        $(document).ready(function() {
    $('#example2').dataTable( {
        "scrollCollapse": true,
                "sDom": '<"bottom"flp><"clear">',
                          false
        "paging":
    });
});
        </script>
<script type="text/javascript" class="init">
                $.extend( $.fn.dataTable.defaults, {
    responsive: true
});
        $(document).ready(function() {
    $('#table3').dataTable( {
        "scrollCollapse": true,
                                 "order": [[ 1, 'desc' ]],
                "sDom": '<"bottom"flp><"clear">',
        "paging":
                          false
    });
});
        </script>
<script type="text/javascript" class="init">
                $.extend( $.fn.dataTable.defaults, {
    responsive: true
});
```

```
$(document).ready(function() {
    $('#example').dataTable( {
        "scrollCollapse": true,
                "searching": false,
                "sDom": '<"top">rt<"bottom"flp><"clear">',
        "paging":
                          false
    });
});
        </script>
<script type="text/javascript" class="init">
$(document).ready(function() {
        $('#popbycountry').dataTable();
});
        </script>
<script data-cfasync="false" type="text/javascript">
  var freestar = freestar || {};
  freestar.hitTime = Date.now();
  freestar.queue = freestar.queue || [];
  freestar.config = freestar.config || {};
  freestar.debug = window.location.search.indexOf('fsdebug') === -1 ? false :
true;
  freestar.config.enabled_slots = [];
  !function(a,b){var c=b.getElementsByTagName("script")[0],d=b.createElement("sc
ript"),e="https://a.pub.network/worldometers-info";e+=freestar.debug?"/qa/pubfig
.min.js":"/pubfig.min.js",d.async=!0,d.src=e,c.parentNode.insertBefore(d,c)}(win
dow,document);
</script>
</head>
<body>
<script>
  (function(i,s,o,g,r,a,m){i['GoogleAnalyticsObject']=r;i[r]=i[r]||function(){
  (i[r].q=i[r].q||[]).push(arguments)},i[r].l=1*new Date();a=s.createElement(o),
m=s.getElementsByTagName(o)[0];a.async=1;a.src=g;m.parentNode.insertBefore(a,m)
  })(window,document,'script','//www.google-analytics.com/analytics.js','ga');
  ga('create', 'UA-1438574-2', 'auto');
  ga('send', 'pageview');
</script>
<script async</pre>
src="https://www.googletagmanager.com/gtag/js?id=UA-1438574-30"></script>
  window.dataLayer = window.dataLayer || [];
  function gtag(){dataLayer.push(arguments);}
```

```
gtag('js', new Date());
 gtag('config', 'UA-1438574-30');
</script>
<link rel="stylesheet" type="text/css" href="//cdnjs.cloudflare.com/ajax/libs/co</pre>
okieconsent2/3.1.0/cookieconsent.min.css" />
<script src="//cdnjs.cloudflare.com/ajax/libs/cookieconsent2/3.1.0/cookieconsent</pre>
.min.js"></script>
<script>
window.addEventListener("load", function(){
window.cookieconsent.initialise({
  "palette": {
    "popup": {
      "background": "#efefef",
      "text": "#404040"
   },
    "button": {
      "background": "#8ec760",
      "text": "#ffffff"
   }
 },
  "theme": "classic",
  "content": {
    "href": "http://www.worldometers.info/policy/"
 }
})});
</script> <style type="text/css">
    .style1 {
        color: #666666
</style>
<div class="navbar navbar-default">
<div class="container">
<div class="navbar-header">
<div class="logo"><a href="/" class="navbar-brand"><img src="/img/worldometers-</pre>
logo.gif" border="0" title="Worldometer"></a></div>
<button class="navbar-toggle" type="button" data-toggle="collapse" data-</pre>
target="#navbar-main">
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button>
</div>
<div class="navbar-collapse collapse" id="navbar-main">
<a href="/coronavirus/"><span style="color:#FF9900; font-</pre>
weight:bold">Coronavirus</span></a>
```

```
<a href="/population/">Population</a>
</div>
</div>
</div>
<div class="container">
<div class="row">
<div style="text-align:left; margin-bottom:10px">
<script async</pre>
src="https://pagead2.googlesyndication.com/pagead/js/adsbygoogle.js"></script>
<ins class="adsbygoogle" style="display:inline-block;width:970px;height:90px"</pre>
data-ad-client="ca-pub-3701697624350410" data-ad-slot="3287840995"></ins>
<script>
     (adsbygoogle = window.adsbygoogle || []).push({});
</script>
</div>
</div>
<div class="row"> <div class="col-md-8">
<div class="content-inner">
<style>
    .number-table {
        font-size: 20px;
        font-weight: bold
    }
    .number-table-main {
        font-size: 24px;
        font-weight: bold
</style>
<script src="/js/highcharts.js"></script>
<style type="text/css">
   <!--
    .source { }
    .style2 {
        color: #FF0000
    .style4 {
```

```
color: #FF0000;
        font-weight: bold;
    }
    .style6 {
        font-size: 12px;
        color: #bbb;
        font-weight: bold;
    }
    .source1 {
        font-size: 12px;
        color: #bbb;
    }
    .source1 {
        font-size: 12px;
        color: #bbb;
    }
    .source11 {
        font-size: 12px;
        color: #bbb;
         .source111 {
    } .source1111 {
        font-size: 12px;
        color: #bbb;
    }
    -->
</style>
<div class="label-counter" id="page-top">COVID-19 Coronavirus Pandemic</div>
<div style="font-size:13px; color:#999; margin-top:5px; text-align:center">Last
updated: June 14, 2020, 07:11 GMT</div>
<div style="margin-top:20px; text-align:center; font-size:14px"><a</pre>
href="/coronavirus/coronavirus-cases/"> </a><a href="/coronavirus/worldwide-
graphs/">Graphs</a> - <a href="#countries">Countries</a> - <a</pre>
href="/coronavirus/coronavirus-death-rate/">Death Rate</a> - <a
href="/coronavirus/coronavirus-symptoms/">Symptoms</a> - <a
href="/coronavirus/coronavirus-incubation-period/">Incubation</a> -<strong>
</strong><strong> </strong><a href="/coronavirus/transmission/">Transmission</a>
- <a href="#news">News</a></div>
<div id="maincounter-wrap" style="margin-top:15px">
<h1>Coronavirus Cases:</h1>
<div class="maincounter-number">
```

```
<span style="color:#aaa">7,875,522 </span>
</div>
</div>
<div style="text-align:center "><a href="#countries">view by country</a></div>
<div id="maincounter-wrap" style="margin-top:15px">
<h1>Deaths:</h1>
<div class="maincounter-number">
<span>432,519</span>
</div>
</div>
<div id="maincounter-wrap" style="margin-top:15px;">
<h1>Recovered:</h1>
<div class="maincounter-number" style="color:#8ACA2B ">
<span>4,044,232
</div>
</div>
<div style="margin-top:50px;"></div>
<style>
    .panel_flip {
        position: relative;
        height: 100%;
    }
    .panel_front {
        height: inherit;
        position: absolute;
        top: 0;
        -webkit-transform: rotateX(Odeg) rotateY(Odeg);
        -moz-transform: rotateX(Odeg) rotateY(Odeg);
        -webkit-transform-style: preserve-3d;
        -moz-transform-style: preserve-3d;
        -webkit-backface-visibility: hidden;
        -moz-backface-visibility: hidden;
        -webkit-transition: all .4s ease-in-out;
        -moz-transition: all .4s ease-in-out;
        -ms-transition: all .4s ease-in-out;
        -o-transition: all .4s ease-in-out;
        transition: all .4s ease-in-out;
    }
    .panel_back {
        height: inherit;
        position: absolute;
        top: 0;
        -webkit-transform: rotateY(-180deg);
```

```
-moz-transform: rotateY(-180deg);
       -webkit-transform-style: preserve-3d;
       -moz-t
[5]: b_soup = BeautifulSoup(res.content)
[6]: # By inspecting html of the Worldometers page, it is found out that
   → "main_table_countries_today" is the main table
   # class that encapsulates the important statistical info
[7]: table = b_soup.find('table', attrs={'id': 'main_table_countries_today'})
[8]: print(table)
  id="main_table_countries_today" style="width:100%; margin-top: 0px
  !important;display:none;">
  <thead>
  <t.r>
  #
  Country, <br/>Other
  Total<br/>Cases
  New<br/>Cases
  Total<br/>Deaths
  New<br/>Deaths
  Total<br/>Recovered
  New<br/>Recovered
  Active<br/>Cases
  Serious, <br/>Critical
  Tot Cases/<br/>1M pop
  Deaths/<br/>1M pop
  Total<br/>Tests
  Tests/<br/>
  <nobr>1M pop</nobr>
  Population
  Continent
  1 Case<br/>every X ppl1 Death<br/>every X
  ppl1 Test<br/>every X ppl
  </thead>
  style="display: none">
  <
  <nobr>North America</nobr>
```

```
2,459,117
+4,551
144,586
+450
1,054,941
+3,370
1,259,590
19,451
<
<
<
North America
style="display: none">
<
<nobr>South America</nobr>
1,393,063
+913
59,331
+26
743,229
+10,239
590,503
12,001
<
<
<
<
<
South America
style="display: none">
<
```

```
<nobr>Europe</nobr>
2,190,806
+653
182,591
+12
1,158,739
+412
849,476
6,716
<
<
<
<
Europe
<
none">
<
<nobr>Asia</nobr>
1,587,180
+9,508
39,589
+113
969,432
+3,411
578,159
15,433
<
<
<
<
<
Asia
<
style="display: none">
```

```
<nobr>Africa</nobr>
235,704
<
6,283
<
108,837
+2
120,584
524
<
Africa
<
style="display: none">
<nobr>Oceania</nobr>
8,931
+18
124
<
8,403
+3
404
2
<
<
<td data-continent="Australia/Oceania"
style="display:none;">Australia/Oceania
<
```

```
none">
<
<nobr></nobr>
721
<
15
<
651
55
4
<
<
<
<
<
World
7,875,522
+15,643
432,519
+601
4,044,232
+17,437
3,398,771
54,131
1,010
55.5
<
All
<
```

```
align:middle;">1
<a class="mt_a"</pre>
href="country/us/">USA</a>
2,142,224
117,527 
<td style="font-weight: bold;
        text-align:right;">
854,106
1,170,591
16,744
6,474
355
24,292,171
73,410
<a href="/world-population/us-</pre>
population/">330,912,290</a> 
North America
1542,81614
align:middle;">2
<a class="mt_a"</pre>
href="country/brazil/">Brazil</a>
850,796
42,791 
<td style="font-weight: bold;
        text-align:right;">
437,512
color:#000">+9,902
370,493
8,318
4,004
201
1,499,041
7,055
<a href="/world-
population/brazil-population/">212,488,104</a> 
South America
2504,966142
```

```
align:middle;">3
<a class="mt_a"</pre>
href="country/russia/">Russia</a>
520,129
6,829 
<td style="font-weight: bold;
          text-align:right;">
274,641
238,659
2,300
3,564
47
14,574,117
99,869
<a href="/world-</pre>
population/russia-population/">145,931,723</a> 
Europe
28121,36910
align:middle;">4
<a class="mt_a"</pre>
href="country/india/">India</a>
321,963
<td style="font-weight: bold; text-align:right; background-
color:#FFEEAA;">+337
9,204 
<td style="font-weight: bold;
          text-align:right;background-color:red;
color:white">+5
162,439
color:#000">+113
150,320
8,944
233
7
5,658,614
4,102
<a href="/world-</pre>
population/india-population/">1,379,344,820</a> 
Asia
4,284149,864244
```

```
align:middle;">5
<a class="mt_a"</pre>
href="country/uk/">UK</a>
294,375
41,662 
<td style="font-weight: bold;
        text-align:right;">
N/A
N/A
N/A
492
4,337
614
6,624,676
97,609
<a href="/world-population/uk-</pre>
population/">67,869,522</a> 
Europe
2311,62910
align:middle;">6
<a class="mt_a"</pre>
href="country/spain/">Spain</a>
290,685
27,136 
<td style="font-weight: bold;
        text-align:right;">
N/A
N/A
N/A
617
6,217
580
4,465,338
95,507
<a href="/world-</pre>
population/spain-population/">46,753,986</a> 
Europe
1611,72310
```

```
align:middle;">7
<a class="mt_a"
href="country/italy/">Italy</a>
236,651
34,301 
<td style="font-weight: bold;
        text-align:right;">
174,865
27,485
220
3,914
567
4,564,191
75,484
<a href="/world-
population/italy-population/">60,465,633</a> 
Europe
2561,76313
align:middle;">8
<a class="mt_a"</pre>
href="country/peru/">Peru</a>
225,132
6,498 
<td style="font-weight: bold;
        text-align:right;">
111,724
106,910
1,113
6,833
197
1,338,477
40,623
<a href="/world-population/peru-</pre>
population/">32,948,535</a> 
South America
1465,07125
align:middle;">9
<a class="mt_a"
```

```
href="country/germany/">Germany</a>
187,423
8,867 
<td style="font-weight: bold;
         text-align:right;">
172,200
color:#000">+300
6,356
447
2,237
106
4,694,147
56,035
<a href="/world-</pre>
population/germany-population/">83,771,837</a> 
Europe
4479,44818
align:middle;">10
<a class="mt_a"</pre>
href="country/iran/">Iran</a>
184,955
8,730 
<td style="font-weight: bold;
         text-align:right;">
146,748
29,477
2,755
2,203
104
1,219,400
14,527
<a href="/world-population/iran-</pre>
population/">83,939,011</a> 
Asia
4549,61569
align:middle;">11
<a class="mt_a"</pre>
href="country/turkey/">Turkey</a>
```

```
176,677
4,792 
<td style="font-weight: bold;
        text-align:right;">
150,087
21,798
684
2,096
57
2,586,995
30,690
<a href="/world-</pre>
population/turkey-population/">84,294,508</a> 
Asia
47717,59133
align:middle;">12
<a class="mt a"</pre>
href="country/chile/">Chile</a>
167,355
3,101 
<td style="font-weight: bold;
        text-align:right;">
137,296
26,958
1,656
8,758
162
819,999
42,913
<a href="/world-
population/chile-population/">19,108,331</a> 
South America
1146,16223
align:middle;">13
<a class="mt_a"</pre>
href="country/france/">France</a>
156,813
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29,398 
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72,808
54,607
871
2,403
450
1,384,633
21,215
<a href="/world-</pre>
population/france-population/">65,267,057</a> 
Europe
4162,22047
align:middle;">14
<a class="mt a"</pre>
href="country/mexico/">Mexico</a>
142,690
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color: #FFEEAA; ">+3,494
16,872 
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color:white">+424
104,975
color:#000">+3,208
20,843
378
1,107
131
401,755
3,118
<a href="/world-</pre>
population/mexico-population/">128,866,423</a> 
North America
9037,638321
align:middle;">15
<a class="mt_a"</pre>
href="country/pakistan/">Pakistan</a>
139,230
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<td style="font-weight: bold; text-align:right; background-
color: #FFEEAA; ">+6,825
2,632 
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color:white">+81
51,735
color:#000">+1,679
84,863
111
631
12
868,565
3,936
<a href="/world-</pre>
population/pakistan-population/">220,661,983</a> 
Asia
1,58583,838254
align:middle;">16
<a class="mt_a"</pre>
href="country/saudi-arabia/">Saudi Arabia</a>
123,308
932 
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82,548
39,828
1,843
3,545
27
1,087,021
31,249
<a href="/world-
population/saudi-arabia-population/">34,785,871</a> 
Asia
28237,32432
align:middle;">17
<a class="mt_a"</pre>
href="country/canada/">Canada</a>
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98,410
8,107 
<td style="font-weight: bold;
        text-align:right;">
59,354
30,949
1,937
2,609
215
2,113,924
56,033
<a href="/world-</pre>
population/canada-population/">37,726,251</a> 
North America
3834,65418
align:middle;">18
<a class="mt a"</pre>
href="country/bangladesh/">Bangladesh</a>
84,379
1,139 
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17,828
65,412
1
513
7
489,960
2,976
<a href="/world-</pre>
population/bangladesh-population/">164,609,508</a> 
Asia
1,951144,521336
align:middle;">19
<a class="mt_a"</pre>
href="country/qatar/">Qatar</a>
78,416
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70 
<td style="font-weight: bold;
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55,252
23,094
232
27,928
25
286,830
102,155
2,807,805 
Asia
3640,11210
align:middle;">20
<a class="mt_a"</pre>
href="country/south-africa/">South Africa</a>
65,736
1,423 
<td style="font-weight: bold;
        text-align:right;">
36,850
27,463
208
1,109
24
1,087,887
18,354
<a href="/world-
population/south-africa-population/">59,271,249</a> 
Africa
90241,65254
align:middle;">21
<a class="mt_a"</pre>
href="country/belgium/">Belgium</a>
59,918
9,650 
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16,547
33,721
88
5,171
833
1,010,059
87,169
<a href="/world-</pre>
population/belgium-population/">11,587,314</a> 
Europe
1931,20111
align:middle;">22
<a class="mt_a"
href="country/belarus/">Belarus</a>
53,241
303 
<td style="font-weight: bold;
        text-align:right;">
29,111
23,827
92
5,634
32
714,324
75,594
<a href="/world-
population/belarus-population/">9,449,458</a> 
Europe
17731,18613
align:middle;">23
<a class="mt_a"</pre>
href="country/sweden/">Sweden</a>
50,931
4,874 
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N/A
N/A
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N/A
272
5,045
483
325,000
32,190
<a href="/world-</pre>
population/sweden-population/">10,096,321</a> 
Europe
1982,07131
align:middle;">24
<a class="mt_a"
href="country/colombia/">Colombia</a>
48,746
1,592 
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19,426
27,728
335
959
31
482,832
9,494
<a href="/world-
population/colombia-population/">50,856,291</a> 
South America
1,04331,945105
align:middle;">25
<a class="mt_a"</pre>
href="country/netherlands/">Netherlands</a>
48,640
6,057 
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N/A
N/A
77
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2,839
354
455,067
26,561
<a href="/world-</pre>
population/netherlands-population/">17,133,178</a> 
Europe
3522,82938
align:middle;">26
<a class="mt_a"</pre>
href="country/ecuador/">Ecuador</a>
46,356
3,874 
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        text-align:right;">
22,865
19,617
219
2,629
220
134,141
7,609
<a href="/world-</pre>
population/ecuador-population/">17,629,274</a> 
South America
3804,551131
align:middle;">27
<a class="mt_a"</pre>
href="country/egypt/">Egypt</a>
42,980
1,484 
<td style="font-weight: bold;
        text-align:right;">
11,529
29,967
41
420
15
```

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135,000
1,321
<a href="/world-</pre>
population/egypt-population/">102,231,323</a> 
Africa
2,37968,889757
align:middle;">28
<a class="mt_a"</pre>
href="country/united-arab-emirates/">UAE</a>
41,990
288 
<td style="font-weight: bold;
        text-align:right;">
26,761
14,941
1
4,248
29
2,626,000
265,670
<a href="/world-
population/united-arab-emirates-population/">9,884,452</a> 
Asia
23534,3214
align:middle;">29
<a class="mt_a"</pre>
href="country/singapore/">Singapore</a>
40,197
26 
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28,808
11,363
1
6,873
4
488,695
83,564
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population/singapore-population/">5,848,152</a> 
Asia
145224,92912
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<a class="mt a"</pre>
href="country/indonesia/">Indonesia</a>
37,420
2,091 
<td style="font-weight: bold;
         text-align:right;">
13,776
21,553
137
8
495,527
1,813
<a href="/world-
population/indonesia-population/">273,381,886</a> 
Asia
7,306130,742552
align:middle;">31
<a class="mt_a"</pre>
href="country/portugal/">Portugal</a>
36,463
1,512 
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22,438
12,513
77
3,576
148
975,737
95,680
<a href="/world-
population/portugal-population/">10,197,961</a>
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Europe
2806,74510
align:middle;">32
<a class="mt a"</pre>
href="country/kuwait/">Kuwait</a>
35,466
289 
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25,882
9,295
176
8,311
68
332,288
77,868
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population/kuwait-population/">4,267,336</a> 
Asia
12014,76613
align:middle;">33
<a class="mt_a"</pre>
href="country/ukraine/">Ukraine</a>
31,154
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889 
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color:white">+9
14,082
color:#000">+106
16,183
314
712
20
489,334
11,186
<a href="/world-
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population/ukraine-population/">43,744,419</a> 
Europe
1,40449,20689
align:middle;">34
<a class="mt_a"</pre>
href="country/switzerland/">Switzerland</a>
31,094
1,938 
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28,800
356
15
3,594
224
453,745
52,446
<a href="/world-</pre>
population/switzerland-population/">8,651,628</a> 
Europe
2784,46419
align:middle;">35
<a class="mt_a"</pre>
href="country/argentina/">Argentina</a>
30,295
815 
<td style="font-weight: bold;
         text-align:right;">
9,083
20,397
274
671
18
228,324
5,054
<a href="/world-
population/argentina-population/">45,175,755</a> 
South America
```

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1,49155,430198
align:middle;">36
<a class="mt_a"</pre>
href="country/poland/">Poland</a>
29,017
1,237 
<td style="font-weight: bold;
        text-align:right;">
14,104
13,676
77
767
33
1,169,088
30,889
<a href="/world-</pre>
population/poland-population/">37,848,394</a> 
Europe
1,30430,59732
align:middle;">37
<a class="mt_a"</pre>
href="country/philippines/">Philippines</a>
25,392
1,074 
<td style="font-weight: bold;
        text-align:right;">
5,706
18,612
82
232
10
495,529
4,525
<a href="/world-</pre>
population/philippines-population/">109,507,509</a> 
Asia
4,313101,962221
```

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align:middle;">38
<a class="mt_a"</pre>
href="country/ireland/">Ireland</a>
25,295
1,705 
<td style="font-weight: bold;
          text-align:right;">
22,698
892
28
5,126
345
367,780
74,524
<a href="/world-
population/ireland-population/">4,935,066</a> 
Europe
19513
align:middle;">39
<a class="mt_a"</pre>
href="country/afghanistan/">Afghanistan</a>
24,766
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color: #FFEEAA; ">+664
471 
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color:white">+20
4,725
color:#000">+524
19,570
19
637
12
55,981
1,440
<a href="/world-
population/afghanistan-population/">38,879,781</a> 
Asia
1,57082,547695
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align:middle;">40
<a class="mt_a"</pre>
href="country/dominican-republic/">Dominican Republic</a>
22,572
577 
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13,084
8,911
124
2,082
53
107,175
9,885
<a href="/world-</pre>
population/dominican-republic-population/">10,842,611</a> 
North America
48018,791101
align:middle;">41
<a class="mt_a"</pre>
href="country/oman/">Oman</a>
22,077
99 
<td style="font-weight: bold;
        text-align:right;">
7,530
14,448
94
4,329
19
136,164
26,703
<a href="/world-population/oman-
population/">5,099,223</a> 
Asia
23151,50737
```

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align:middle;">42
<a class="mt_a"</pre>
href="country/romania/">Romania</a>
21,679
1,394 
<td style="font-weight: bold;
        text-align:right;">
15,635
4,650
171
1,127
72
552,670
28,721
<a href="/world-</pre>
population/romania-population/">19,242,854</a> 
Europe
88813,80435
align:middle;">43
<a class="mt_a"
href="country/panama/">Panama</a>
20,059
429 
<td style="font-weight: bold;
        text-align:right;">
13,759
5,871
96
4,653
100
89,736
20,814
<a href="/world-
population/panama-population/">4,311,253</a> 
North America
21510,05048
align:middle;">44
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<a class="mt_a"</pre>
href="country/israel/">Israel</a>
19,008
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300 
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15,360
color:#000">+3
3,348
34
2,067
33
747,956
81,321
9,197,590 
Asia
48430,65912
align:middle;">45
<a class="mt_a"</pre>
href="country/iraq/">Iraq</a>
18,950
549 
<td style="font-weight: bold;
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7,515
10,886
111
472
14
359,950
8,960
<a href="/world-population/iraq-</pre>
population/">40,172,534</a> 
Asia
2,12073,174112
align:middle;">46
<a class="mt_a"</pre>
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href="country/bahrain/">Bahrain</a>
18,227
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39 
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color:white">+2
12,818
color:#000">+627
5,370
18
10,735
23
418,413
246,431
<a href="/world-</pre>
population/bahrain-population/">1,697,893</a> 
Asia
9343,5364
align:middle;">47
<a class="mt_a"</pre>
href="country/bolivia/">Bolivia</a>
17,842
<td style="font-weight: bold; text-align:right; background-
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585 
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2,768
color:#000">+337
14,489
71
1,530
50
42,741
3,664
<a href="/world-</pre>
population/bolivia-population/">11,664,961</a> 
South America
65419,940273
```

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align:middle;">48
<a class="mt_a"</pre>
href="country/japan/">Japan</a>
17,382
924 
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15,580
878
76
137
7
336,161
2,658
<a href="/world-
population/japan-population/">126,492,732</a> 
Asia
7,277136,897376
align:middle;">49
<a class="mt_a"</pre>
href="country/austria/">Austria</a>
17,078
677 
<td style="font-weight: bold;
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16,012
389
11
1,897
75
520,976
57,860
<a href="/world-</pre>
population/austria-population/">9,004,010</a> 
Europe
52713,30017
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align:middle;">50
<a class="mt_a"</pre>
href="country/armenia/">Armenia</a>
16,667
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color: #FFEEAA; ">+663
269 
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color:white">+5
6,214
color:#000">+133
10,184
10
5,625
91
82,324
27,784
<a href="/world-</pre>
population/armenia-population/">2,962,996</a> 
Asia
17811,01536
align:middle;">51
<a class="mt_a"</pre>
href="country/nigeria/">Nigeria</a>
15,682
407 
<td style="font-weight: bold;
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5,101
10,174
7
76
2
90,464
439
<a href="/world-
population/nigeria-population/">205,850,206</a> 
Africa
13,127505,7742,275
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align:middle;">52
<a class="mt_a"</pre>
href="country/kazakhstan/">Kazakhstan</a>
14,496
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color: #FFEEAA; ">+258
73 
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9,056
color:#000">+227
5,367
77
772
4
1,135,407
60,505
<a href="/world-</pre>
population/kazakhstan-population/">18,765,538</a> 
Asia
1,295257,06217
align:middle;">53
<a class="mt_a"</pre>
href="country/serbia/">Serbia</a>
12,251
253 
<td style="font-weight: bold;
         text-align:right;">
11,348
650
15
1,402
29
301,126
34,458
<a href="/world-</pre>
population/serbia-population/">8,738,833</a> 
Europe
71334,54129
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align:middle;">54
<a class="mt_a"</pre>
href="country/denmark/">Denmark</a>
12,139
597 
<td style="font-weight: bold;
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11,035
507
11
2,096
103
786,198
135,756
<a href="/world-</pre>
population/denmark-population/">5,791,277</a> 
Europe
4779,7017
align:middle;">55
<a class="mt_a"</pre>
href="country/south-korea/">S. Korea</a>
12,085
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color: #FFEEAA; ">+34
277 
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10,718
color:#000">+27
1,090
15
236
5
1,100,328
21,463
<a href="/world-
population/south-korea-population/">51,267,244</a> 
Asia
4,242185,08047
```

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align:middle;">56
<a class="mt_a"</pre>
href="country/moldova/">Moldova</a>
11,459
398 
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        text-align:right;">
6,421
4,640
378
2,840
99
63,328
15,697
<a href="/world-</pre>
population/moldova-population/">4,034,360</a> 
Europe
35210,13764
align:middle;">57
<a class="mt_a"</pre>
href="country/ghana/">Ghana</a>
11,118
48 
<td style="font-weight: bold;
        text-align:right;">
3,979
7,091
4
358
2
245,448
7,908
<a href="/world-
population/ghana-population/">31,037,593</a> 
Africa
2,792646,617126
align:middle;">58
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<a class="mt_a"</pre>
href="country/algeria/">Algeria</a>
10,810
760 
<td style="font-weight: bold;
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7,420
2,630
39
247
17
<a href="/world-</pre>
population/algeria-population/">43,809,098</a> 
Africa
4,05357,644
align:middle;">59
<a class="mt_a"</pre>
href="country/czech-republic/">Czechia</a>
9,991
328 
<td style="font-weight: bold;
        text-align:right;">
7,219
2,444
14
933
31
494,805
46,208
<a href="/world-
population/czech-republic-population/">10,708,097</a> 
Europe
1,07232,64722
align:middle; ">60
<a class="mt_a"</pre>
href="country/azerbaijan/">Azerbaijan</a>
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9,570
115 
<td style="font-weight: bold;
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5,309
4,146
66
944
11
362,654
35,783
<a href="/world-</pre>
population/azerbaijan-population/">10,134,773</a> 
Asia
1,05988,12828
align:middle;">61
<a class="mt a"</pre>
href="country/guatemala/">Guatemala</a>
9,491
<td style="font-weight: bold; text-align:right; background-
color: #FFEEAA; ">+509
367 
<td style="font-weight: bold;
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color:white">+16
1,804
color:#000">+102
7,320
5
530
21
31,427
1,756
<a href="/world-</pre>
population/guatemala-population/">17,897,934</a> 
North America
1,88648,768570
align:middle;">62
<a class="mt_a"</pre>
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href="country/morocco/">Morocco</a>
8,692
212 
<td style="font-weight: bold;
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7,696
784
7
236
6
405,898
11,003
<a href="/world-
population/morocco-population/">36,888,828</a> 
Africa
4,244174,00491
align:middle;">63
<a class="mt_a"</pre>
href="country/cameroon/">Cameroon</a>
8,681
212 
<td style="font-weight: bold;
        text-align:right;">
4,836
3,633
28
327
8
<a href="/world-</pre>
population/cameroon-population/">26,508,397</a> 
Africa
3,054125,040
align:middle; ">64
<a class="mt_a"</pre>
href="country/norway/">Norway</a>
8,628
```

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242 
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8,138
248
5
1,592
45
277,253
51,161
<a href="/world-
population/norway-population/">5,419,225</a> 
Europe
62822,39320
align:middle;">65
<a class="mt_a"</pre>
href="country/honduras/">Honduras</a>
8,455
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color: #FFEEAA; ">+323
310 
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color:white">+4
894
color:#000">+50
7,251
13
854
31
21,540
2,177
<a href="/world-
population/honduras-population/">9,896,444</a> 
North America
1,17031,924459
align:middle; ">66
<a class="mt_a"</pre>
href="country/malaysia/">Malaysia</a>
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8,445
120 
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7,311
1,014
4
261
4
618,360
19,118
<a href="/world-</pre>
population/malaysia-population/">32,345,191</a> 
Asia
3,830269,54352
align:middle;">67
<a class="mt a"</pre>
href="country/australia/">Australia</a>
7,320
<td style="font-weight: bold; text-align:right; background-
color: #FFEEAA; ">+18
102 
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6,815
color:#000">+3
403
2
287
4
1,804,533
70,807
<a href="/world-
population/australia-population/">25,485,226</a> 
<td data-continent="Australia/Oceania"
style="display:none">Australia/Oceania
3,482249,85514
align:middle;">68
<a class="mt a"</pre>
```

```
href="country/finland/">Finland</a>
7,087
325 
<td style="font-weight: bold;
        text-align:right;">
6,200
562
2
1,279
59
217,300
39,221
<a href="/world-
population/finland-population/">5,540,338</a> 
Europe
78217,04725
align:middle;">69
<a class="mt_a"</pre>
href="country/sudan/">Sudan</a>
7,007
447 
<td style="font-weight: bold;
        text-align:right;">
2,556
4,004
160
10
401
9
<a href="/world-</pre>
population/sudan-population/">43,792,082</a> 
Africa
6,25097,969109,207
align:middle;">70
<a class="mt_a"</pre>
href="country/nepal/">Nepal</a>
5,335
```

```
18 
<td style="font-weight: bold;
         text-align:right;">
913
4,404
183
0.6
317,870
10,920
<a href="/world-
population/nepal-population/">29,109,067</a> 
Asia
5,4561,617,17092
align:middle;">71
<a class="mt_a"</pre>
href="country/senegal/">Senegal</a>
4,996
60 
<td style="font-weight: bold;
         text-align:right;">
3,228
1,708
23
299
4
59,008
3,529
<a href="/world-</pre>
population/senegal-population/">16,718,552</a> 
Africa
3,346278,643283
align:middle;">72
<a class="mt_a"</pre>
href="country/uzbekistan/">Uzbekistan</a>
4,994
<td style="font-weight: bold; text-align:right; background-
color: #FFEEAA; ">+28
```

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19 
<td style="font-weight: bold;
        text-align:right;">
3,874
1,101
16
149
0.6
748,555
22,382
<a href="/world-
population/uzbekistan-population/">33,444,432</a> 
Asia
6,6971,760,23345
align:middle;">73
<a class="mt a"</pre>
href="country/tajikistan/">Tajikistan</a>
4,971
50 
<td style="font-weight: bold;
        text-align:right;">
3,288
1,633
522
5
<a href="/world-</pre>
population/tajikistan-population/">9,525,785</a> 
Asia
1,916190,516
align:middle;">74
<a class="mt_a"</pre>
href="country/cote-d-ivoire/">Ivory Coast</a>
4,848
45 
<td style="font-weight: bold;
```

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text-align:right;">
2,397
2,406
184
2
35,935
1,364
<a href="/world-population/cote-</pre>
d-ivoire-population/">26,341,285</a> 
Africa
5,433585,362733
align:middle;">75
<a class="mt_a"</pre>
href="country/democratic-republic-of-the-congo/">DRC</a>
4,724
106 
<td style="font-weight: bold;
        text-align:right;">
595
4,023
53
1
<a href="/world-</pre>
population/democratic-republic-of-the-congo-population/">89,398,642</a> 
Africa
18,924843,383
align:middle;">76
<a class="mt_a"</pre>
href="country/guinea/">Guinea</a>
4,484
25 
<td style="font-weight: bold;
        text-align:right;">
3,213
```

```
1,246
24
342
2
14,407
1,099
<a href="/world-</pre>
population/guinea-population/">13,112,156</a> 
Africa
2,924524,486910
align:middle;">77
<a class="mt_a"</pre>
href="country/djibouti/">Djibouti</a>
4,449
41 
<td style="font-weight: bold;
         text-align:right;">
2,823
1,585
4,506
42
40,855
41,382
<a href="/world-</pre>
population/djibouti-population/">987,266</a> 
Africa
22224,08024
align:middle;">78
<a class="mt_a"</pre>
href="country/haiti/">Haiti</a>
4,165
<td style="font-weight: bold; text-align:right; background-
color: #FFEEAA; ">+224
70 
<td style="font-weight: bold;
         text-align:right;background-color:red;
color:white">+6
24
```

```
4,071
365
6
8,488
745
<a href="/world-</pre>
population/haiti-population/">11,395,599</a> 
North America
2,736162,7941,343
align:middle;">79
<a class="mt_a"
href="country/hungary/">Hungary</a>
4,069
<td style="font-weight: bold; text-align:right; background-
color:#FFEEAA;">+5
562 
<td style="font-weight: bold;
          text-align:right;background-color:red;
color:white">+3
2,482
color:#000">+6
1,025
20
421
58
233,742
24,193
<a href="/world-
population/hungary-population/">9,661,388</a> 
Europe
2,37417,19141
align:middle;">80
<a class="mt_a"</pre>
href="country/luxembourg/">Luxembourg</a>
4,063
110 
<td style="font-weight: bold;
          text-align:right;">
```

```
3,922
31
6,496
176
106,062
169,578
<a href="/world-</pre>
population/luxembourg-population/">625,448</a> 
Europe
1545,6866
align:middle;">81
<a class="mt_a"
href="country/macedonia/">North Macedonia</a>
3,895
179 
<td style="font-weight: bold;
        text-align:right;">
1,705
2,011
34
1,870
86
42,262
20,285
<a href="/world-
population/macedonia-population/">2,083,378</a> 
Europe
53511,63949
align:middle;">82
<a class="mt_a"</pre>
href="country/el-salvador/">El Salvador</a>
3,603
72 
<td style="font-weight: bold;
        text-align:right;">
1,745
```

```
color:#000">+7
1,786
136
556
11
120,941
18,650
<a href="/world-population/el-</pre>
salvador-population/">6,484,695</a> 
North America
1,80090,06554
align:middle;">83
<a class="mt_a"</pre>
href="country/gabon/">Gabon</a>
3,463
23 
<td style="font-weight: bold;
        text-align:right;">
1,024
2,416
17
1,558
10
19,517
8,780
<a href="/world-
population/gabon-population/">2,222,794</a> 
Africa
64296,643114
align:middle;">84
<a class="mt_a"</pre>
href="country/kenya/">Kenya</a>
3,457
100 
<td style="font-weight: bold;
        text-align:right;">
1,221
2,136
```

```
7
64
2
112,171
2,089
<a href="/world-
population/kenya-population/">53,706,004</a> 
Africa
15,535537,060479
align:middle;">85
<a class="mt_a"</pre>
href="country/bulgaria/">Bulgaria</a>
3,266
172 
<td style="font-weight: bold;
        text-align:right;">
1,723
1,371
16
470
25
103,077
14,830
<a href="/world-</pre>
population/bulgaria-population/">6,950,527</a> 
Europe
2,12840,41067
align:middle;">86
<a class="mt_a"</pre>
href="country/ethiopia/">Ethiopia</a>
3,166
55 
<td style="font-weight: bold;
        text-align:right;">
495
2,616
39
28
```

```
0.5
176,504
1,537
<a href="/world-
population/ethiopia-population/">114,802,321</a> 
Africa
36,2612,087,315650
align:middle;">87
<a class="mt_a"</pre>
href="country/thailand/">Thailand</a>
3,135
<td style="font-weight: bold; text-align:right; background-
color: #FFEEAA; ">+1
58 
<td style="font-weight: bold;
         text-align:right;">
2,987
90
1
45
0.8
468,175
6,708
<a href="/world-</pre>
population/thailand-population/">69,792,125</a> 
Asia
22,2621,203,313149
align:middle;">88
<a class="mt_a"</pre>
href="country/greece/">Greece</a>
3,112
183 
<td style="font-weight: bold;
         text-align:right;">
1,374
1,555
13
299
18
```

```
247,452
23,736
<a href="/world-</pre>
population/greece-population/">10,425,147</a> 
Europe
3,35056,96842
align:middle;">89
<a class="mt_a"</pre>
href="country/venezuela/">Venezuela</a>
2,904
24 
<td style="font-weight: bold;
        text-align:right;">
487
2,393
1
102
0.8
1,066,791
37,511
<a href="/world-
population/venezuela-population/">28,439,335</a> 
South America
9,7931,184,97227
align:middle;">90
<a class="mt_a"</pre>
href="country/bosnia-and-herzegovina/">Bosnia and Herzegovina</a>
2,893
163 
<td style="font-weight: bold;
        text-align:right;">
2,119
611
4
882
50
75,171
22,906
```

```
<a href="/world-</pre>
population/bosnia-and-herzegovina-population/">3,281,645</a> 
Europe
1,13420,13344
align:middle;">91
<a class="mt_a"</pre>
href="country/somalia/">Somalia</a>
2,579
87 
<td style="font-weight: bold;
         text-align:right;">
559
1,933
2
163
5
<a href="/world-</pre>
population/somalia-population/">15,867,340</a> 
Africa
6,153182,383
align:middle;">92
<a class="mt_a"</pre>
href="country/kyrgyzstan/">Kyrgyzstan</a>
2,285
<td style="font-weight: bold; text-align:right; background-
color: #FFEEAA; ">+78
27 
<td style="font-weight: bold;
         text-align:right;">
1,791
color:#000">+69
467
11
351
4
150,612
23,105
```

```
<a href="/world-</pre>
population/kyrgyzstan-population/">6,518,583</a> 
Asia
2,853241,42943
align:middle;">93
<a class="mt a"</pre>
href="country/mayotte/">Mayotte</a>
2,282
28 
<td style="font-weight: bold;
        text-align:right;">
1,790
464
12
8,376
103
8,800
32,300
<a href="/world-
population/mayotte-population/">272,445</a> 
Africa
1199,73031
align:middle;">94
<a class="mt_a"</pre>
href="country/croatia/">Croatia</a>
2,251
107 
<td style="font-weight: bold;
        text-align:right;">
2,134
10
548
26
69,967
17,039
<a href="/world-
population/croatia-population/">4,106,292</a>
```

```
Europe
1,82438,37759
align:middle;">95
<a class="mt a"</pre>
href="country/cuba/">Cuba</a>
2,238
84 
<td style="font-weight: bold;
        text-align:right;">
1,923
231
5
198
7
131,628
11,621
<a href="/world-population/cuba-</pre>
population/">11,326,915</a> 
North America
5,061134,84486
align:middle;">96
<a class="mt_a"
href="country/central-african-republic/">CAR</a>
2,057
7 
<td style="font-weight: bold;
        text-align:right;">
363
1,687
2
426
1
18,921
3,921
<a href="/world-
population/central-african-republic-population/">4,825,349</a> 
Africa
2,346689,336255
```

```
align:middle;">97
<a class="mt_a"</pre>
href="country/maldives/">Maldives</a>
2,013
8 
<td style="font-weight: bold;
        text-align:right;">
1,217
788
9
3,727
15
28,940
53,588
<a href="/world-</pre>
population/maldives-population/">540,042</a> 
Asia
26867,50519
align:middle;">98
<a class="mt_a"</pre>
href="country/estonia/">Estonia</a>
1,973
69 
<td style="font-weight: bold;
        text-align:right;">
1,705
199
1,487
52
95,000
71,617
<a href="/world-
population/estonia-population/">1,326,496</a> 
Europe
67219,22514
```

```
align:middle;">99
<a class="mt_a"</pre>
href="country/sri-lanka/">Sri Lanka</a>
1,884
11 
<td style="font-weight: bold;
        text-align:right;">
1,252
621
1
88
0.5
85,967
4,015
<a href="/world-population/sri-</pre>
lanka-population/">21,409,146</a> 
Asia
11,3641,946,286249
align:middle;">100
<a class="mt_a"
href="country/iceland/">Iceland</a>
1,808
10 
<td style="font-weight: bold;
        text-align:right;">
1,794
4
5,300
29
63,124
185,039
<a href="/world-
population/iceland-population/">341,139</a> 
Europe
18934,1145
align:middle;">101
```

```
<a class="mt_a"</pre>
href="country/mali/">Mali</a>
1,776
104 
<td style="font-weight: bold;
        text-align:right;">
1,058
614
88
5
3,483
172
<a href="/world-population/mali-</pre>
population/">20,216,492</a> 
Africa
11,383194,3895,804
align:middle;">102
<a class="mt_a"</pre>
href="country/lithuania/">Lithuania</a>
1,763
75 
<td style="font-weight: bold;
        text-align:right;">
1,416
272
17
647
28
360,670
132,420
<a href="/world-
population/lithuania-population/">2,723,683</a> 
Europe
1,54536,3168
align:middle;">103
<a class="mt_a"</pre>
href="country/south-sudan/">South Sudan</a>
```

```
1,693
27 
<td style="font-weight: bold;
        text-align:right;">
49
1,617
151
2
3,356
300
<a href="/world-</pre>
population/south-sudan-population/">11,187,215</a> 
Africa
6,608414,3413,333
align:middle;">104
<a class="mt a"</pre>
href="country/mauritania/">Mauritania</a>
1,682
83 
<td style="font-weight: bold;
        text-align:right;">
311
1,288
25
362
18
7,654
1,649
<a href="/world-</pre>
population/mauritania-population/">4,642,634</a> 
Africa
2,76055,935607
align:middle;">105
<a class="mt_a"</pre>
href="country/costa-rica/">Costa Rica</a>
1,662
```

```
12 
<td style="font-weight: bold;
        text-align:right;">
743
907
3
326
2
31,763
6,238
<a href="/world-
population/costa-rica-population/">5,091,874</a> 
North America
3,064424,323160
align:middle;">106
<a class="mt a"</pre>
href="country/slovakia/">Slovakia</a>
1,545
28 
<td style="font-weight: bold;
        text-align:right;">
1,410
107
283
5
196,244
35,945
<a href="/world-</pre>
population/slovakia-population/">5,459,526</a> 
Europe
3,534194,98328
align:middle;">107
<a class="mt_a"</pre>
href="country/new-zealand/">New Zealand</a>
1,504
22 
<td style="font-weight: bold;
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text-align:right;">
1,482
0
301
4
310,297
62,033
5,002,100 
<td data-continent="Australia/Oceania"
style="display:none">Australia/Oceania
3,326227,36816
align:middle;">108
<a class="mt_a"</pre>
href="country/slovenia/">Slovenia</a>
1,492
109 
<td style="font-weight: bold;
        text-align:right;">
1,359
24
718
52
88,463
42,552
<a href="/world-</pre>
population/slovenia-population/">2,078,926</a> 
Europe
1,39319,07324
align:middle;">109
<a class="mt_a"</pre>
href="country/nicaragua/">Nicaragua</a>
1,464
55 
<td style="font-weight: bold;
        text-align:right;">
953
```

```
456
221
8
<a href="/world-</pre>
population/nicaragua-population/">6,620,637</a> 
North America
4,522120,375
align:middle;">110
<a class="mt_a"</pre>
href="country/albania/">Albania</a>
1,464
36 
<td style="font-weight: bold;
       text-align:right;">
1,039
389
7
509
13
17,888
6,216
<a href="/world-
population/albania-population/">2,877,932</a> 
Europe
1,96679,943161
align:middle;">111
<a class="mt_a"</pre>
href="country/guinea-bissau/">Guinea-Bissau</a>
1,460
15 
<td style="font-weight: bold;
       text-align:right;">
153
1,292
```

```
5
743
8
1,500
763
<a href="/world-
population/guinea-bissau-population/">1,965,396</a> 
Africa
1,346131,0261,310
align:middle;">112
<a class="mt_a"</pre>
href="country/lebanon/">Lebanon</a>
1,442
32 
<td style="font-weight: bold;
       text-align:right;">
868
542
9
211
5
105,264
15,419
<a href="/world-</pre>
population/lebanon-population/">6,826,708</a> 
Asia
4,734213,33565
align:middle;">113
<a class="mt_a"</pre>
href="country/zambia/">Zambia</a>
1,357
10 
<td style="font-weight: bold;
       text-align:right;">
1,104
243
1
74
```

```
0.5
28,236
1,538
<a href="/world-</pre>
population/zambia-population/">18,353,872</a> 
Africa
13,5251,835,387650
align:middle;">114
<a class="mt_a"</pre>
href="country/equatorial-guinea/">Equatorial Guinea</a>
1,306
12 
<td style="font-weight: bold;
        text-align:right;">
200
1,094
933
9
8,268
5,905
<a href="/world-</pre>
population/equatorial-guinea-population/">1,400,166</a> 
Africa
1,072116,681169
align:middle;">115
<a class="mt a"</pre>
href="country/paraguay/">Paraguay</a>
1,261
11 
<td style="font-weight: bold;
        text-align:right;">
647
603
2
177
2
46,608
```

```
6,539
<a href="/world-
population/paraguay-population/">7,128,166</a> 
South America
5,653648,015153
align:middle;">116
<a class="mt_a"</pre>
href="country/madagascar/">Madagascar</a>
1,252
10 
<td style="font-weight: bold;
        text-align:right;">
362
880
9
45
0.4
15,495
560
<a href="/world-</pre>
population/madagascar-population/">27,650,334</a> 
Africa
22,0852,765,0331,784
align:middle;">117
<a class="mt_a"</pre>
href="country/french-guiana/">French Guiana</a>
1,161
2 
<td style="font-weight: bold;
        text-align:right;">
520
639
6
3,893
7
277
929
<a href="/world-
```

```
population/french-guiana-population/">298,239</a> 
South America
257149,1201,077
align:middle;">118
<a class="mt_a"</pre>
href="country/sierra-leone/">Sierra Leone</a>
1,132
51 
<td style="font-weight: bold;
         text-align:right;">
670
411
142
6
<a href="/world-</pre>
population/sierra-leone-population/">7,968,190</a> 
Africa
7,039156,239
align:middle;">119
<a class="mt_a"</pre>
href="country/china-hong-kong-sar/">Hong Kong</a>
1,110
4 
<td style="font-weight: bold;
         text-align:right;">
1,061
45
3
148
0.5
241,992
32,291
<a href="/world-
population/china-hong-kong-sar-population/">7,494,079</a> 
Asia
```

```
6,7511,873,52031
align:middle;">120
<a class="mt a"</pre>
href="country/latvia/">Latvia</a>
1,097
28 
<td style="font-weight: bold;
        text-align:right;">
845
224
1
581
15
127,450
67,541
<a href="/world-</pre>
population/latvia-population/">1,886,992</a> 
Europe
1,72067,39315
align:middle;">121
<a class="mt_a"</pre>
href="country/tunisia/">Tunisia</a>
1,094
49 
<td style="font-weight: bold;
        text-align:right;">
995
50
93
4
58,770
4,975
<a href="/world-</pre>
population/tunisia-population/">11,812,566</a> 
Africa
10,798241,073201
```

```
align:middle;">122
<a class="mt_a"</pre>
href="country/niger/">Niger</a>
980
66 
<td style="font-weight: bold;
       text-align:right;">
881
33
41
3
6,275
260
<a href="/world-
population/niger-population/">24,151,361</a> 
Africa
24,644365,9303,849
align:middle;">123
<a class="mt_a"</pre>
href="country/cyprus/">Cyprus</a>
980
18 
<td style="font-weight: bold;
       text-align:right;">
807
155
4
812
15
140,126
116,100
<a href="/world-</pre>
population/cyprus-population/">1,206,943</a> 
Asia
1,23267,0529
```

```
align:middle;">124
<a class="mt_a"
href="country/jordan/">Jordan</a>
953
9 
<td style="font-weight: bold;
        text-align:right;">
678
266
5
93
0.9
266,873
26,169
<a href="/world-
population/jordan-population/">10,198,205</a> 
Asia
10,7011,133,13438
align:middle;">125
<a class="mt_a"</pre>
href="country/burkina-faso/">Burkina Faso</a>
892
53 
<td style="font-weight: bold;
        text-align:right;">
799
40
43
3
<a href="/world-</pre>
population/burkina-faso-population/">20,869,969</a> 
Africa
23,397393,773
align:middle;">126
<a class="mt_a"
```

```
href="country/andorra/">Andorra</a>
853
51 
<td style="font-weight: bold;
        text-align:right;">
781
21
8
11,041
660
3,750
48,537
<a href="/world-
population/andorra-population/">77,260</a> 
Europe
911,51521
align:middle;">127
<a class="mt_a"</pre>
href="country/georgia/">Georgia</a>
851
14 
<td style="font-weight: bold;
        text-align:right;">
702
135
6
213
4
73,893
18,522
<a href="/world-</pre>
population/georgia-population/">3,989,493</a> 
Asia
4,688284,96454
align:middle;">128
<a class="mt_a"</pre>
href="country/chad/">Chad</a>
848
```

```
72 
<td style="font-weight: bold;
       text-align:right;">
718
58
52
4
<a href="/world-population/chad-
population/">16,398,142</a> 
Africa
19,337227,752<
align:middle;">129
<a class="mt_a"</pre>
href="country/uruguay/">Uruguay</a>
847
23 
<td style="font-weight: bold;
       text-align:right;">
784
40
3
244
7
52,862
15,220
<a href="/world-</pre>
population/uruguay-population/">3,473,184</a> 
South America
4,101151,00866
align:middle;">130
<a class="mt_a"</pre>
href="country/congo/">Congo</a>
728
24
```

```
<td style="font-weight: bold;
        text-align:right;">
221
483
132
4
<a href="/world-
population/congo-population/">5,510,407</a> 
Africa
7,569229,600
align:middle;">131
<a class="mt_a"</pre>
href="country/cabo-verde/">Cabo Verde</a>
726
6 
<td style="font-weight: bold;
        text-align:right;">
294
426
1,306
11
1,307
2,352
<a href="/world-population/cabo-</pre>
verde-population/">555,690</a> 
Africa
76592,615425
align:middle;">132
<span</pre>
style="color:#00B5F0; font-style:italic; ">Diamond Princess</span>
712
13 
<td style="font-weight: bold;
        text-align:right;">
```

```
651
48
4

align:middle;">133
<a class="mt_a"</pre>
href="country/yemen/">Yemen</a>
705
160 
<td style="font-weight: bold;
      text-align:right;">
39
506
24
5
120
4
<a href="/world-
population/yemen-population/">29,789,754</a> 
Asia
42,255186,186248,248
align:middle;">134
<a class="mt_a"</pre>
href="country/san-marino/">San Marino</a>
694
42 
<td style="font-weight: bold;
      text-align:right;">
520
132
```

```
1
20,455
1,238
5,238
154,386
<a href="/world-population/san-</pre>
marino-population/">33,928</a> 
Europe
498086
align:middle;">135
<a class="mt_a"</pre>
href="country/uganda/">Uganda</a>
694

<td style="font-weight: bold;
        text-align:right;">
219
475
15
142,819
3,128
<a href="/world-</pre>
population/uganda-population/">45,653,693</a> 
Africa
65,783320
align:middle;">136
<a class="mt_a"</pre>
href="country/sao-tome-and-principe/">Sao Tome and Principe</a>
659
12 
<td style="font-weight: bold;
        text-align:right;">
176
471
3,010
```

```
55
1,453
6,636
<a href="/world-population/sao-</pre>
tome-and-principe-population/">218,942</a> 
Africa
33218,245151
align:middle;">137
<a class="mt_a"</pre>
href="country/malta/">Malta</a>
646
9 
<td style="font-weight: bold;
         text-align:right;">
601
36
1
1,463
20
80,953
183,363
<a href="/world-</pre>
population/malta-population/">441,490</a> 
Europe
68349,0545
align:middle;">138
<a class="mt a"</pre>
href="country/jamaica/">Jamaica</a>
615
<td style="font-weight: bold; text-align:right; background-
color:#FFEEAA;">+1
10 
<td style="font-weight: bold;
         text-align:right;">
420
color:#000">+3
185
2
208
```

```
3
16,347
5,522
<a href="/world-
population/jamaica-population/">2,960,575</a> 
North America
4,814296,058181
align:middle;">139
<a class="mt_a"</pre>
href="country/channel-islands/">Channel Islands</a>
565
48 
<td style="font-weight: bold;
        text-align:right;">
512
5
3,251
276
10,255
59,009
<a href="/world-</pre>
population/channel-islands-population/">173,786</a> 
Europe
30817
align:middle;">140
<a class="mt a"</pre>
href="country/mozambique/">Mozambique</a>
553
2 
<td style="font-weight: bold;
        text-align:right;">
151
400
18
0.06
18,061
```

```
579
<a href="/world-
population/mozambique-population/">31,204,265</a> 
Africa
56,42715,602,1331,728
align:middle;">141
<a class="mt_a"</pre>
href="country/rwanda/">Rwanda</a>
541
2 
<td style="font-weight: bold;
        text-align:right;">
332
207
42
0.2
87,656
6,777
<a href="/world-</pre>
population/rwanda-population/">12,934,032</a> 
Africa
23,9086,467,016148
align:middle;">142
<a class="mt a"</pre>
href="country/togo/">Togo</a>
530
13 
<td style="font-weight: bold;
        text-align:right;">
291
226
1
64
2
25,401
3,072
<a href="/world-population/togo-</pre>
```

```
population/">8,267,878</a> 
Africa
15,600635,991325
align:middle;">143
<a class="mt_a"</pre>
href="country/malawi/">Malawi</a>
529
5 
<td style="font-weight: bold;
        text-align:right;">
66
458
4
28
0.3
6,690
350
<a href="/world-</pre>
population/malawi-population/">19,101,665</a> 
Africa
36,1093,820,3332,855
align:middle;">144
<a class="mt_a"</pre>
href="country/tanzania/">Tanzania</a>
509
21 
<td style="font-weight: bold;
        text-align:right;">
183
305
7
9
0.4
<a href="/world-
population/tanzania-population/">59,634,349</a> 
Africa
```

```
117,1602,839,731
align:middle;">145
<a class="mt a"</pre>
href="country/state-of-palestine/">Palestine</a>
489
3 
<td style="font-weight: bold;
        text-align:right;">
415
71
96
0.6
44,876
8,808
<a href="/world-</pre>
population/state-of-palestine-population/">5,094,798</a> 
Asia
10,4191,698,266114
align:middle;">146
<a class="mt_a"</pre>
href="country/reunion/">Réunion</a>
489
1 
<td style="font-weight: bold;
        text-align:right;">
460
28
2
546
1
17,200
19,218
<a href="/world-</pre>
population/reunion-population/">895,010</a> 
Africa
1,830895,01052
```

```
align:middle;">147
<a class="mt_a"</pre>
href="country/swaziland/">Eswatini</a>
486
3 
<td style="font-weight: bold;
       text-align:right;">
247
236
5
419
3
6,551
5,649
<a href="/world-
population/swaziland-population/">1,159,577</a> 
Africa
2,386386,526177
align:middle;">148
<a class="mt_a"</pre>
href="country/liberia/">Liberia</a>
446
32 
<td style="font-weight: bold;
       text-align:right;">
214
200
88
6
<a href="/world-</pre>
population/liberia-population/">5,051,032</a> 
Africa
11,325157,845<
```

```
align:middle;">149
<a class="mt_a"
href="country/taiwan/">Taiwan</a>
443
7 
<td style="font-weight: bold;
        text-align:right;">
431
5
19
0.3
73,751
3,097
<a href="/world-
population/taiwan-population/">23,814,858</a> 
Asia
53,7583,402,123323
align:middle;">150
<a class="mt_a"</pre>
href="country/libya/">Libya</a>
418
8 
<td style="font-weight: bold;
        text-align:right;">
62
348
61
1
12,867
1,874
<a href="/world-</pre>
population/libya-population/">6,866,565</a> 
Africa
16,427858,321534
align:middle;">151
<a class="mt_a"
```

```
href="country/benin/">Benin</a>
412
6 
<td style="font-weight: bold;
        text-align:right;">
222
184
2
34
0.5
45,758
3,780
<a href="/world-
population/benin-population/">12,104,967</a> 
Africa
29,3812,017,495265
align:middle;">152
<a class="mt_a"</pre>
href="country/zimbabwe/">Zimbabwe</a>
356
4 
<td style="font-weight: bold;
        text-align:right;">
54
298
24
0.3
52,905
3,562
<a href="/world-</pre>
population/zimbabwe-population/">14,851,867</a> 
Africa
41,7193,712,967281
align:middle;">153
<a class="mt_a"</pre>
href="country/mauritius/">Mauritius</a>
337
```

```
10 
<td style="font-weight: bold;
       text-align:right;">
325
2
265
8
137,789
108,352
<a href="/world-
population/mauritius-population/">1,271,674</a> 
Africa
3,774127,1679
align:middle;">154
<a class="mt a"</pre>
href="country/isle-of-man/">Isle of Man</a>
336
24 
<td style="font-weight: bold;
       text-align:right;">
312
0
3,952
282
5,484
64,509
<a href="/world-population/isle-</pre>
of-man-population/">85,012</a> 
Europe
2533,54216
align:middle;">155
<a class="mt_a"</pre>
href="country/viet-nam/">Vietnam</a>
334
```

```
<td style="font-weight: bold;
        text-align:right;">
323
11
1
3
275,000
2,826
<a href="/world-population/viet-</pre>
nam-population/">97,296,384</a> 
Asia
291,307354
align:middle;">156
<a class="mt_a"</pre>
href="country/montenegro/">Montenegro</a>
324
9 
<td style="font-weight: bold;
        text-align:right;">
315
0
516
14
13,186
20,995
<a href="/world-
population/montenegro-population/">628,063</a> 
Europe
1,93869,78548
align:middle;">157
<a class="mt_a"</pre>
href="country/myanmar/">Myanmar</a>
261
6 
<td style="font-weight: bold;
        text-align:right;">
```

```
167
88
5
0.1
45,926
844
<a href="/world-</pre>
population/myanmar-population/">54,392,661</a> 
Asia
208,4019,065,4441,184
align:middle;">158
<a class="mt_a"
href="country/martinique/">Martinique</a>
202
14 
<td style="font-weight: bold;
       text-align:right;">
98
90
538
37
<a href="/world-
population/martinique-population/">375,278</a> 
North America
1,85826,806
align:middle;">159
<a class="mt_a"</pre>
href="country/mongolia/">Mongolia</a>
197

<td style="font-weight: bold;
       text-align:right;">
98
```

```
color:#000">+3
99
11
60
17,899
5,464
<a href="/world-</pre>
population/mongolia-population/">3,275,549</a> 
Asia
16,627183
align:middle; ">160
<a class="mt_a"</pre>
href="country/suriname/">Suriname</a>
196
3 
<td style="font-weight: bold;
        text-align:right;">
9
184
2
334
5
1,165
1,987
<a href="/world-</pre>
population/suriname-population/">586,379</a> 
South America
2,992195,460503
align:middle;">161
<a class="mt_a"</pre>
href="country/cayman-islands/">Cayman Islands</a>
187
1 
<td style="font-weight: bold;
        text-align:right;">
115
71
```

```
2,847
15
17,227
262,271
<a href="/world-
population/cayman-islands-population/">65,684</a> 
North America
35165,6844
align:middle;">162
<a class="mt_a"</pre>
href="country/faeroe-islands/">Faeroe Islands</a>
187

<td style="font-weight: bold;
         text-align:right;">
187
0
3,828
10,977
224,685
<a href="/world-</pre>
population/faeroe-islands-population/">48,855</a> 
Europe
2614
align:middle;">163
<a class="mt_a"
href="country/syria/">Syria</a>
177
<td style="font-weight: bold; text-align:right; background-
color: #FFEEAA; ">+7
6 
<td style="font-weight: bold;
         text-align:right;">
74
color:#000">+3
97
```

```
10
0.3
<a href="/world-
population/syria-population/">17,476,694</a> 
Asia
98,7382,912,782
align:middle;">164
<a class="mt_a"</pre>
href="country/comoros/">Comoros</a>
176
2 
<td style="font-weight: bold;
       text-align:right;">
114
60
203
2
<a href="/world-</pre>
population/comoros-population/">868,587</a> 
Africa
4,935434,294
align:middle;">165
<a class="mt a"</pre>
href="country/gibraltar/">Gibraltar</a>
176

<td style="font-weight: bold;
       text-align:right;">
173
3
5,224
```

```
10,091
299,516
<a href="/world-
population/gibraltar-population/">33,691</a> 
Europe
1913
align:middle;">166
<a class="mt_a"</pre>
href="country/guadeloupe/">Guadeloupe</a>
171
14 
<td style="font-weight: bold;
       text-align:right;">
157
0
427
35
5,691
14,223
<a href="/world-</pre>
population/guadeloupe-population/">400,121</a> 
North America
2,34028,58070
align:middle;">167
<a class="mt a"</pre>
href="country/guyana/">Guyana</a>
159
12 
<td style="font-weight: bold;
       text-align:right;">
95
52
1
202
15
1,927
```

```
2,450
<a href="/world-
population/guyana-population/">786,377</a> 
South America
4,94665,531408
align:middle;">168
<a class="mt_a"</pre>
href="country/bermuda/">Bermuda</a>
142
9 
<td style="font-weight: bold;
        text-align:right;">
127
6
2
2,280
144
8,430
135,339
<a href="/world-</pre>
population/bermuda-population/">62,288</a> 
North America
4396,9217
align:middle;">169
<a class="mt_a"</pre>
href="country/brunei-darussalam/">Brunei </a>
141
2 
<td style="font-weight: bold;
        text-align:right;">
138
1
1
322
5
24,131
55,185
<a href="/world-
```

```
population/brunei-darussalam-population/">437,276</a> 
Asia
3,101218,63818
align:middle;">170
<a class="mt_a"</pre>
href="country/angola/">Angola</a>
138
6 
<td style="font-weight: bold;
         text-align:right;">
61
71
1
4
0.2
10,000
305
<a href="/world-</pre>
population/angola-population/">32,804,751</a> 
Africa
237,7165,467,4593,280
align:middle;">171
<a class="mt_a"</pre>
href="country/cambodia/">Cambodia</a>
128
<td style="font-weight: bold; text-align:right; background-
color:#FFEEAA;">+2

<td style="font-weight: bold;
         text-align:right;">
125
3
1
8
27,274
1,632
<a href="/world-
population/cambodia-population/">16,707,229</a>
```

```
Asia
130,525613
align:middle;">172
<a class="mt a"</pre>
href="country/trinidad-and-tobago/">Trinidad and Tobago</a>
117
8 
<td style="font-weight: bold;
        text-align:right;">
109
0
84
6
3,876
2,770
<a href="/world-</pre>
population/trinidad-and-tobago-population/">1,399,283</a> 
North America
11,960174,910361
align:middle;">173
<a class="mt_a"</pre>
href="country/bahamas/">Bahamas</a>
103
11 
<td style="font-weight: bold;
        text-align:right;">
68
24
1
262
28
2,261
5,752
<a href="/world-
population/bahamas-population/">393,062</a> 
North America
3,81635,733174
```

```
align:middle;">174
<a class="mt_a"</pre>
href="country/aruba/">Aruba</a>
101
3 
<td style="font-weight: bold;
       text-align:right;">
98
0
946
28
2,220
20,797
<a href="/world-</pre>
population/aruba-population/">106,745</a> 
North America
1,05735,58248
align:middle;">175
<a class="mt_a"</pre>
href="country/monaco/">Monaco</a>
99
4 
<td style="font-weight: bold;
       text-align:right;">
93
2
2,524
102
16,200
412,960
<a href="/world-
population/monaco-population/">39,229</a> 
Europe
3969,8072
```

```
align:middle;">176
<a class="mt_a"</pre>
href="country/barbados/">Barbados</a>
96
7 
<td style="font-weight: bold;
        text-align:right;">
83
6
1
334
24
6,449
22,442
<a href="/world-</pre>
population/barbados-population/">287,359</a> 
North America
2,99341,05145
align:middle;">177
<a class="mt_a"
href="country/burundi/">Burundi</a>
85
1 
<td style="font-weight: bold;
        text-align:right;">
45
39
7
0.08
382
32
<a href="/world-
population/burundi-population/">11,869,738</a> 
Africa
139,64411,869,73831,073
align:middle;">178
```

```
<a class="mt_a"</pre>
href="country/liechtenstein/">Liechtenstein</a>
82
1 
<td style="font-weight: bold;
        text-align:right;">
55
26
2,151
26
900
23,608
<a href="/world-</pre>
population/liechtenstein-population/">38,123</a> 
Europe
46538,12342
align:middle;">179
<a class="mt_a"</pre>
href="country/sint-maarten/">Sint Maarten</a>
77
15 
<td style="font-weight: bold;
        text-align:right;">
61
1
1
1,797
350
471
10,991
<a href="/world-population/sint-</pre>
maarten-population/">42,852</a> 
North America
5572,85791
align:middle;">180
<a class="mt_a"</pre>
href="country/bhutan/">Bhutan</a>
```

```
66
<td style="font-weight: bold; text-align:right; background-
color: #FFEEAA; ">+4

<td style="font-weight: bold;
        text-align:right;">
21
color:#000">+1
45
86
20,731
26,882
<a href="/world-</pre>
population/bhutan-population/">771,190</a> 
Asia
11,68537
align:middle;">181
<a class="mt a"</pre>
href="country/eritrea/">Eritrea</a>
65

<td style="font-weight: bold;
        text-align:right;">
39
26
18
<a href="/world-
population/eritrea-population/">3,543,931</a> 
Africa
54,522<
align:middle;">182
<a class="mt_a"</pre>
href="country/botswana/">Botswana</a>
```

```
60
1 
<td style="font-weight: bold;
         text-align:right;">
24
35
1
26
0.4
26,800
11,409
<a href="/world-</pre>
population/botswana-population/">2,349,057</a> 
Africa
39,1512,349,05788
align:middle;">183
<a class="mt a"</pre>
href="country/french-polynesia/">French Polynesia</a>
60

<td style="font-weight: bold;
         text-align:right;">
60
0
214
4,262
15,176
<a href="/world-</pre>
population/french-polynesia-population/">280,832</a> 
<td data-continent="Australia/Oceania"
style="display:none">Australia/Oceania
4,68166
align:middle;">184
<a class="mt_a"</pre>
href="country/china-macao-sar/">Macao</a>
45
```

```
<td style="font-weight: bold;
       text-align:right;">
45
0
69
<a href="/world-
population/china-macao-sar-population/">648,887</a> 
Asia
14,420
align:middle;">185
<a class="mt_a"</pre>
href="country/saint-martin/">Saint Martin</a>
42
3 
<td style="font-weight: bold;
       text-align:right;">
36
3
1
1,087
78
685
17,732
<a href="/world-</pre>
population/saint-martin-population/">38,631</a> 
North America
92012,87756
align:middle;">186
<a class="mt_a"</pre>
href="country/namibia/">Namibia</a>
32
```

```
<td style="font-weight: bold;
        text-align:right;">
17
15
1
13
5,682
2,238
<a href="/world-
population/namibia-population/">2,538,466</a> 
Africa
79,327447
align:middle;">187
<a class="mt_a"</pre>
href="country/gambia/">Gambia</a>
28
1 
<td style="font-weight: bold;
        text-align:right;">
24
3
12
0.4
1,970
817
<a href="/world-
population/gambia-population/">2,412,698</a> 
Africa
86,1682,412,6981,225
align:middle;">188
<a class="mt a"</pre>
href="country/saint-vincent-and-the-grenadines/">St. Vincent Grenadines</a>
27

<td style="font-weight: bold;
        text-align:right;">
```

```
25
2
243
643
5,797
<a href="/world-</pre>
population/saint-vincent-and-the-grenadines-population/">110,924</a> 
North America
4,108
align:middle;">189
<a class="mt_a"
href="country/antigua-and-barbuda/">Antigua and Barbuda</a>
26
3 
<td style="font-weight: bold;
        text-align:right;">
20
3
1
266
31
489
4,995
<a href="/world-
population/antigua-and-barbuda-population/">97,890</a> 
North America
3,76532,630200
align:middle;">190
<a class="mt_a"</pre>
href="country/timor-leste/">Timor-Leste</a>
24

<td style="font-weight: bold;
        text-align:right;">
24
```

```
0
18
1,568
1,190
<a href="/world-</pre>
population/timor-leste-population/">1,317,101</a> 
Asia
54,879840
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23

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22
1
1
204
4,130
36,711
<a href="/world-
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North America
4,89127
align:middle;">192
<a class="mt_a"</pre>
href="country/curacao/">Curaçao</a>
22
1 
<td style="font-weight: bold;
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15
6
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134
6
1,080
6,583
<a href="/world-</pre>
population/curacao-population/">164,062</a> 
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7,457164,062152
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href="country/new-caledonia/">New Caledonia</a>
21

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20
1
74
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26,569
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13,58938
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<a class="mt_a"</pre>
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20
2 
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16
2
50
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5
1,776
4,471
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North America
19,862198,623224
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href="country/laos/">Laos</a>
19

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population/">7,270,167</a> 
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<a class="mt a"</pre>
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19

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1
103
1,264
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6,885
<a href="/world-
population/saint-lucia-population/">183,588</a> 
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9,663145
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18

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2
250
534
7,419
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population/dominica-population/">71,978</a> 
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3,999135
align:middle;">198
<a class="mt a"</pre>
href="country/fiji/">Fiji</a>
18

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population/">896,138</a> 
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<a class="mt a"</pre>
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15

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3,545128
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href="country/falkland-islands-malvinas/">Falkland Islands</a>
13

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South America
2675
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229
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44,234
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population/greenland-population/">56,766</a> 
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4,36723
align:middle;">202
<a class="mt_a"</pre>
href="country/turks-and-caicos-islands/">Turks and Caicos</a>
12
1 
<td style="font-weight: bold;
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0
310
26
192
4,962
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3,22438,691202
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see-population/">801</a> 
Europe
67
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1 
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200
61
12,220
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4544,99282
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Africa
8,938
align:middle;">206
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9
2 
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7

align:middle;">207
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href="country/western-sahara/">Western Sahara</a>
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0
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2
<a href="/world-</pre>
population/western-sahara-population/">596,509</a> 
Africa
66,279596,509
align:middle;">208
<a class="mt a"</pre>
href="country/british-virgin-islands/">British Virgin Islands</a>
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265
33
212
7,015
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population/british-virgin-islands-population/">30,222</a> 
North America
3,77830,222143
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href="country/papua-new-guinea/">Papua New Guinea</a>
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8

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7

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424
16,176
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population/caribbean-netherlands-population/">26,211</a> 
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3,74462
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href="country/saint-barthelemy/">St. Barth</a>
6
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<td style="font-weight: bold;
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608
152
15,391
<a href="/world-
population/saint-barthelemy-population/">9,876</a> 
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1,64665
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1,515
707
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population/lesotho-population/">2,141,440</a> 
Africa
535,3601,413
align:middle;">213
<a class="mt_a"</pre>
href="country/anguilla/">Anguilla</a>
3
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<td style="font-weight: bold;
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2,734
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population/anguilla-population/">14,997</a> 
North America
4,999366
align:middle;">214
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1

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173
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population/saint-pierre-and-miquelon-population/">5,795</a> 
North America
5,795<
align:middle;">215
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4,634 
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129
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3
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Asia
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+450
1,054,941
+3,370
1,259,590
19,451
<
<
<
<
North America

<
style="display: none">
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+26
743,229
+10,239
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12,001
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<
South America

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none">
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+12
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+412
849,476
6,716
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<
<
Europe

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+113
969,432
+3,411
578,159
15,433
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<
Asia

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6,283
108,837
120,584
524
<
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<
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Africa

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8,403
404
2
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<
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651
55
4
<
<
<

<
<
<
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+15,643
432,519
+601
4,044,232
+17,437
3,398,771
54,131
1,010.4
55.5
<
<
All
<
<
```

```
[9]: rows = table.find_all("tr", attrs={"style": ""})

[10]: data = []
    for i,item in enumerate(rows):
        if i == 0:
            data.append(item.text.strip().split("\n")[:13])

        else:
            data.append(item.text.strip().split("\n")[:12])
```

## [11]: print(data)

[['#', 'Country,Other', 'TotalCases', 'NewCases', 'TotalDeaths', 'NewDeaths', 'TotalRecovered', 'NewRecovered', 'ActiveCases', 'Serious, Critical', 'Tot\xa0Cases/1M pop', 'Deaths/1M pop', 'TotalTests'], ['World', '7,875,522', '+15,643', '432,519', '+601', '4,044,232', '+17,437', '3,398,771', '54,131', '1,010', '55.5', ''], ['1', 'USA', '2,142,224', '', '117,527', '', '854,106', '', '1,170,591', '16,744', '6,474', '355'], ['2', 'Brazil', '850,796', '', '42,791', '', '437,512', '+9,902', '370,493', '8,318', '4,004', '201'], ['3', 'Russia', '520,129', '', '6,829 ', '', '274,641', '', '238,659', '2,300', '3,564', '47'], ['4', 'India', '321,963', '+337', '9,204', '+5', '162,439', '+113', '150,320', '8,944', '233', '7'], ['5', 'UK', '294,375', '', '41,662 ', '', 'N/A', 'N/A', 'N/A', '492', '4,337', '614'], ['6', 'Spain', '290,685', '', '27,136 ', '', 'N/A', 'N/A', '617', '6,217', '580'], ['7', 'Italy', '236,651', '', '34,301 ', '', '174,865', '', '27,485', '220', '3,914', '567'], ['8', 'Peru', '225,132', '', '6,498', '', '111,724', '', '106,910', '1,113', '6,833', '197'], ['9', 'Germany', '187,423', '', '8,867', '', '172,200', '+300', '6,356', '447', '2,237', '106'], ['10', 'Iran', '184,955', '', '8,730', '', '146,748', '', '29,477', '2,755', '2,203', '104'], ['11', 'Turkey', '176,677', '', '4,792 ', '', '150,087', '', '21,798', '684', '2,096', '57'], ['12', 'Chile', '167,355', '', '3,101 ', '', '137,296', '', '26,958', '1,656', '8,758', '162'], ['13', 'France', '156,813', '', '29,398', '', '72,808', '', '54,607', '871', '2,403', '450'], ['14', 'Mexico', '142,690', '+3,494', '16,872 ', '+424', '104,975', '+3,208', '20,843', '378', '1,107', '131'], ['15', 'Pakistan', '139,230', '+6,825', '2,632 ', '+81', '51,735', '+1,679', '84,863', '111', '631', '12'], ['16', 'Saudi Arabia', '123,308', '', '932 ', '', '82,548', '', '39,828', '1,843', '3,545', '27'], ['17', 'Canada', '98,410', '', '8,107 ', '', '59,354', '', '30,949', '1,937', '2,609', '215'], ['18', 'Bangladesh', '84,379', '', '1,139 ', '', '17,828', '', '65,412', '1', '513', '7'], ['19', 'Qatar', '78,416', '', '70 ', '', '55,252', '', '23,094', '232', '27,928', '25'], ['20', 'South Africa', '65,736', '', '1,423 ', '', '36,850', '', '27,463', '208', '1,109', '24'], ['21', 'Belgium', '59,918', '', '9,650 ', '',

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[12]: df = pd.DataFrame(data)
      df = pd.DataFrame(data[1:], columns=data[0][:12])
[13]: df.head()
[13]:
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                  7,875,522
                                +15,643 432,519
                                                              4,044,232
      0 World
                                                        +601
      1
             1
                        USA
                             2,142,224
                                                    117,527
             2
      2
                     Brazil
                               850,796
                                                    42,791
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3
     3
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4
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 3,398,771
                                                          55.5
0
       +17,437
                            54,131
                                           1,010
       854,106
                          1,170,591
                                          16,744
                                                         6,474
1
2
       437,512
                   +9,902
                            370,493
                                           8,318
                                                         4,004
3
       274,641
                            238,659
                                           2,300
                                                         3,564
4
       162,439
                            150,320
                                           8,944
                                                           233
                    +113
 Deaths/1M pop
0
1
          355
2
          201
3
          47
4
           7
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[14]: df.to\_csv('dataset/data.csv')