

```
In [1]: import os
import numpy as np
import requests
```

```
In [3]: url = 'https://www.imdb.com/chart/top/'
```

```
Out[3]: <Response [403]>
```

```
In [4]: url1 = 'https://www.worldometers.info/coronavirus/#countries'
```

```
Out[4]: <Response [200]>
```

```
In [5]: url2 = 'https://www.ambitionbox.com/list-of-companies?page=1'
```

```
Out[5]: <Response [403]>
```

```
In [6]: url3 = 'https://www.learnbay.co/'
```

```
Out[6]: <Response [200]>
```

```
In [7]: headers={'User-Agent': 'Mozilla/5.0 (Windows NT 6.3; Win 64 ; X64) Apple WeKit /537.36(KHTML, like Gecko) Chrome/80.0.3987.162 Saf
```

```
In [8]: html = requests.get('https://www.imdb.com/chart/top/', headers=headers).text
```

```
In [9]: soup = BeautifulSoup(html)
```

```
Out[9]: <!DOCTYPE html>
<html lang="en-US" xmlns:fb="http://www.facebook.com/2008/fbml" xmlns:og="http://opengraphprotocol.org/schema/"><head><meta c
harset="utf-8"/><meta content="width=device-width" name="viewport"/><script>if(typeof uet === 'function'){ uet('bb', 'LoadTit
le', {wb: 1}); }</script><script>window.addEventListener('load', (event) => {
  if (typeof window.csa !== 'undefined' && typeof window.csa === 'function') {
    var csaLatencyPlugin = window.csa('Content', {
      element: {
        slotId: 'LoadTitle',
        type: 'service-call'
      }
    });
    csaLatencyPlugin('mark', 'clickToBodyBegin', 1708874283973);
  }
}</script><title>IMDb Top 250 Movies</title><meta content="As rated by regular IMDb voters." data-id="main" name="descri
ption"/><meta content="IMDb" property="og:site_name"/><meta content="IMDb Top 250 Movies" property="og:title"/><meta content
="As rated by regular IMDb voters." property="og:description"/><meta content="website" property="og:type"/><meta content="htt
ps://m.media-amazon.com/images/G/01/imdb/images/social/imdb_logo.png" property="og:image"/><meta content="1000" property="og:
image:height"/><meta content="1000" property="og:image:width"/><meta content="en_US" property="og:locale"/><meta content="es_
ES" property="og:locale:alternate"/><meta content="es_MX" property="og:locale:alternate"/><meta content="fr_FR" property="og:
```

```
In [10]: soup.find('title').getText()
```

```
Out[10]: 'IMDb Top 250 Movies'
```

```
In [11]: soup.findAll('h1')
```

```
Out[11]: [<h1 class="ipc-title__text chart-layout-specific-title-text">IMDb Top 250 Movies</h1>]
```

```
In [12]: soup.findAll('h2', {'class': 'ipc-title__text'})
```

```
Out[12]: []
```

```
In [13]: titleList = soup.findAll('h3', {'class': 'ipc-title__text'})
```

```
<h3 class="ipc-title__text">23. The Silence of the Lambs</h3>,
<h3 class="ipc-title__text">24. Saving Private Ryan</h3>,
<h3 class="ipc-title__text">25. City of God</h3>,
<h3 class="ipc-title__text">26. Life Is Beautiful</h3>,
<h3 class="ipc-title__text">27. The Green Mile</h3>,
<h3 class="ipc-title__text">28. Terminator 2: Judgment Day</h3>,
<h3 class="ipc-title__text">29. Star Wars: Episode IV - A New Hope</h3>,
<h3 class="ipc-title__text">30. Back to the Future</h3>,
<h3 class="ipc-title__text">31. Spirited Away</h3>,
<h3 class="ipc-title__text">32. Spider-man: Across the Spider-verse</h3>,
<h3 class="ipc-title__text">33. The Pianist</h3>,
<h3 class="ipc-title__text">34. Parasite</h3>,
<h3 class="ipc-title__text">35. Psycho</h3>,
<h3 class="ipc-title__text">36. Gladiator</h3>,
<h3 class="ipc-title__text">37. The Lion King</h3>,
<h3 class="ipc-title__text">38. Léon</h3>,
<h3 class="ipc-title__text">39. The Departed</h3>,
<h3 class="ipc-title__text">40. American History X</h3>,
<h3 class="ipc-title__text">41. Whiplash</h3>,
<h3 class="ipc-title__text">42. The Prestige</h3>,
```

<https://www.worldometers.info/coronavirus/#countries>
(<https://www.worldometers.info/coronavirus/#countries>)

```

Out[18]: '<!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]--><n/n/n/n<head>\n  <meta charset="utf-8">\n  <meta http-equiv="X-UA-Compatible" content="IE=edge">\n  <meta name="viewport" content="width=device-width, initial-scale=1">\n  <title>COVID - Coronavirus Statistics - Worldometer</title>\n  <meta name="description" content="Daily and weekly updated statistics tracking the number of COVID-19 cases, recovered, and deaths. Historical data with cumulative charts, graphs, and up dates.">\n\n\n  \n<!-- Favicon -->\n<link rel="shortcut icon" href="/favicon/favicon.ico" type="image/x-icon">\n<link rel="apple-touch-icon" sizes="57x57" href="/favicon/apple-icon-57x57.png">\n<link rel="apple-touch-icon" sizes="60x60" href="/favicon/apple-icon-60x60.png">\n<link rel="apple-touch-icon" sizes="72x72" href="/favicon/apple-icon-72x72.png">\n<link rel="apple-touch-icon" sizes="76x76" href="/favicon/apple-icon-76x76.png">\n<link rel="apple-touch-icon" sizes="114x114" href="/favicon/apple-icon-114x114.png">\n<link rel="apple-touch-icon" sizes="120x120" href="/favicon/apple-icon-120x120.png">\n<link rel="apple-touch-icon" sizes="144x144" href="/favicon/apple-icon-144x144.png">\n<link rel="apple-touch-icon" sizes="152x152" href="/favicon/apple-icon-152x152.png">\n<link rel="apple-touch-icon" sizes="180x180" href="/favicon/apple-icon-180x180.png">\n<link rel="icon" type="image/png" sizes="192x192" href="/favicon/android-icon-192x192.png">\n<link rel="icon" type="image/png" sizes="32x32" href="/favicon/favicon-32x32.png">\n<link rel="icon" type="image/png" sizes="96x96" href="/favicon/favicon-96x96.png">\n<link rel="icon" type="image/png" sizes="16x16" href="/favicon/favicon-16x16.png">\n<link rel="manifest" href="/favicon/manifest.json">\n<meta name="msapplication-TileColor" content="#ffffff">\n<meta name="msapplication-TileImage" content="/favicon/ms-icon-144x144.png">\n<meta name="theme-color" content="#ffffff">\n<n/n/n<!-- og image -->\n<meta property="og:image" content="http://www.worldometers.info/img/worldometers-fb.jpg" />\n<n/n/n  <!-- Bootstrap -->\n<n/n  <link href="/css/bootstrap.min.css" rel="stylesheet">\n<link href="/wm16.css" rel="stylesheet">\n<n/n<!-- font awesome -->\n<link rel="stylesheet" href="http://maxcdn.bootstrapcdn.com/font-awesome/4.2.0/css/font-awesome.min.css">

```

localhost:8888/notebooks/Domain projects/kumar sundaram domain projects/WebScraping.ipynb

```
In [20]: """
url = "https://www.ambitionbox.com/list-of-companies?page=1"
requests.get(url).text
"""
```

```
Out[20]: '\nurl = "https://www.ambitionbox.com/list-of-companies?page=1"\nrequests.get(url).text\n'
```

```
In [21]: url = 'https://www.worldometers.info/coronavirus/#countries'
req = Request(url)
webpage = urlopen(req)

<http.client.HTTPResponse object at 0x000001E39B62D2A0>
```

```
In [22]: page_soup = BeautifulSoup(webpage, 'html.parser') # "Lxml"
#page_soup = BeautifulSoup(webpage, 'Lxml')

<script class="init" type="text/javascript">
$(document).ready(function() {
    $('#popbycountry').dataTable();
});
</script>
</link></meta></head>
<body>
<!-- Google tag (gtag.js) -->
<script async="" src="https://www.googletagmanager.com/gtag/js?id=G-ZDP3BFSX60"></script>
<script>
    window.dataLayer = window.dataLayer || [];
    function gtag(){dataLayer.push(arguments);}
    gtag('js', new Date());

    gtag('config', 'G-ZDP3BFSX60');
</script>
<script async="" crossorigin="anonymous" src="https://pagead2.googlesyndication.com/pagead/js/adsbygoogle.js?client=ca-pub-3701697624350410"></script>
<style type="text/css">
<table>
```

```
In [23]: today = datetime.now()

2024-02-25 21:22:54.500747
```

```
In [24]: yesterday = "%s %d, %d" %(date.today().strftime('%b'), today.day-1, today.year )
print(yesterday)
print()

Feb 24, 2024

2024-02-25 21:22:54.500747
```

```
In [25]: date.today().strftime('%b')
```

```
Out[25]: 'Feb'
```

```
In [26]: table = page_soup.findAll("table",{ 'id': 'main_table_countries_yesterday' })
```

```
Out[26]: [<table class="table table-bordered table-hover main_table_countries" id="main_table_countries_yesterday" style="width:100%;margin-top: 0px !important;display:none;">
<thead>
<tr>
<th width="1%">#</th>
<th width="100">Country,<br/>Other</th>
<th width="20">Total<br/>Cases</th>
<th width="30">New<br/>Cases</th>
<th width="30">Total<br/>Deaths</th>
<th width="30">New<br/>Deaths</th>
<th width="30">Total<br/>Recovered</th>
<th width="30">New<br/>Recovered</th>
<th width="30">Active<br/>Cases</th>
<th width="30">Serious,<br/>Critical</th>
<th width="30">Tot Cases<br/>1M pop</th>
<th width="30">Deaths<br/>1M pop</th>
<th width="30">Total<br/>Tests</th>
<th width="30">Tests<br/>
<nobr>1M pop</nobr>
</table>]
```

```
In [27]: containers = table[0].findAll('tr',{'style':''})
title = containers[0]
```

```
Out[27]: <tr>
<th width="1%">#</th>
<th width="100">Country,<br/>Other</th>
<th width="20">Total<br/>Cases</th>
<th width="30">New<br/>Cases</th>
<th width="30">Total<br/>Deaths</th>
<th width="30">New<br/>Deaths</th>
<th width="30">Total<br/>Recovered</th>
<th width="30">New<br/>Recovered</th>
<th width="30">Active<br/>Cases</th>
<th width="30">Serious,<br/>Critical</th>
<th width="30">Tot Cases<br/>1M pop</th>
<th width="30">Deaths<br/>1M pop</th>
<th width="30">Total<br/>Tests</th>
<th width="30">Tests<br/>
<nobr>1M pop</nobr>
</th>
<th width="30">Population</th>
<th style="display:none" width="30">Continent</th>
<th width="30">1 Case<br/>every X ppl</th><th width="30">1 Death<br/>every X ppl</th><th width="30">1 Test<br/>every X ppl</th>
<th width="30">New Cases<br/>1M pop</th>
<th width="30">New Deaths<br/>1M pop</th>
<th width="30">Active Cases<br/>1M pop</th>
</tr>
```

```
In [28]: containers[1]
```

```
Out[28]: <tr class="total_row_world">
<td></td>
<td style="text-align:left;">World</td>
<td>703,659,398</td>
<td>+4,709</td>
<td>6,985,937</td>
<td>+74</td>
<td>674,392,205</td>
<td>+17,897</td>
<td>22,281,256</td>
<td>35,667</td>
<td>90,273</td>
<td>896.2</td>
<td></td>
<td></td>
<td></td>
<td data-continent="all" style="display:none">All</td>
<!-- 1 Case every X -->
<td>
</td>
<!-- 1 Death every X -->
<td></td>
<!-- 1 test every X -->
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
```

```
In [29]: del containers[0]
```

```
In [31]: table = page_soup.findAll("table",{ 'id': 'main_table_countries_yesterday'})
containers = table[0].findAll('tr',{ "style": ""})
title = containers[0]
del containers[0]

all_data = []
clean = True

for country in containers:
    country_data = []
    country_container = country.findAll('td')
    if country_container[1].text == 'China':
        continue
    for i in range(1, len(country_container)):
        final_feature = country_container[i].text
        if clean:
            if i!= 1 and i!=len(country_container)-1:
                final_feature = final_feature.replace(",","")
            if final_feature.find("+") != -1:
                final_feature = final_feature.replace("+","")
            final_feature = float(final_feature)
            #if final_feature.find("_") != -1:
            #final_feature = float(final_feature)*-1
            if final_feature == 'N/A':
                final_feature = 0
            elif final_feature == "" or final_feature == " ":
                final_feature = -1
            country_data.append(final_feature)
```

```
In [32]: all_data
'90273',
'896.2',
-1,
-1,
-1,
-1,
'All',
'\n',
-1,
-1,
-1,
-1,
-1],
['USA',
'111424589',
2660.0,
'1199434',
6.0,
'109118877',
9283.0,
'1106278',
```

```
In [33]: df = pd.DataFrame(all_data)
```

```
Out[33]:
```

	1	2	3	4	5	6	7	8	9 ...	11	12	13	14	15	16	17	18	19	20
703659398	4709.0	6985937	74.0	674392205	17897.0	22281256	35667	90273	...	-1	-1	-1	All	\n	-1	-1	-1	-1	-1
111424589	2660.0	1199434	6.0	109118877	9283.0	1106278	1743	332804	...	1186764898	3544642	334805269	North America	3	279	0	8	0.02	3,304
45028887	322.0	533477	1.0	0	0.0	0	0	32012	...	935879495	665334	1406631776	Asia	31	2637	2	0.2	-1	0.6
38820489	431.0	182541	33.0	38240600	-1.0	397348	0	462790	...	122332384	1458359	83883596	Europe	2	460	1	5	0.4	4,737
38452504	-1.0	709963	-1.0	36249161	-1.0	1493380	0	178555	...	63776166	296146	215353593	South America	6	303	3	-1	-1	6,935

columns

```
In [34]: df.drop([15,16,17,18,19,20], axis=1, inplace=True)
```

```
In [35]: df.head()
```

```
Out[35]:
```

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
0	World	703659398	4709.0	6985937	74.0	674392205	17897.0	22281256	35667	90273	896.2	-1	-1	-1	All
1	USA	111424589	2660.0	1199434	6.0	109118877	9283.0	1106278	1743	332804	3582	1186764898	3544642	334805269	North America
2	India	45028887	322.0	533477	1.0	0	0.0	0	0	32012	379	935879495	665334	1406631776	Asia
3	Germany	38820489	431.0	182541	33.0	38240600	-1.0	397348	0	462790	2176	122332384	1458359	83883596	Europe
4	Brazil	38452504	-1.0	709963	-1.0	36249161	-1.0	1493380	0	178555	3297	63776166	296146	215353593	South America

```
In [36]: column_labels = ['Country', 'Total Cases', 'New Cases', 'Total Deaths', 'New Deaths', 'Total Recovered',
                        'New Recovered', 'Active Cases', 'Serious Critical', 'Total Cases/1M pop',
```

```
In [37]: df.columns = column_labels
```

```
Out[37]:
```

	Country	Total Cases	New Cases	Total Deaths	New Deaths	Total Recovered	New Recovered	Active Cases	Serious Critical	Total Cases/1M pop	Death/1M pop	Total Tests	Tests/1M pop	Population	
0	World	703659398	4709.0	6985937	74.0	674392205	17897.0	22281256	35667	90273	896.2	-1	-1	-1	
1	USA	111424589	2660.0	1199434	6.0	109118877	9283.0	1106278	1743	332804	3582	1186764898	3544642	334805269	Nc
2	India	45028887	322.0	533477	1.0	0	0.0	0	0	32012	379	935879495	665334	1406631776	
3	Germany	38820489	431.0	182541	33.0	38240600	-1.0	397348	0	462790	2176	122332384	1458359	83883596	
4	Brazil	38452504	-1.0	709963	-1.0	36249161	-1.0	1493380	0	178555	3297	63776166	296146	215353593	So
...	
200	Saint Helena	2166	-1.0	-1	-1.0	2	-1.0	2164	-1	354211	-1	-1	-1	6115	
201	Montserrat	1403	-1.0	8	-1.0	1376	-1.0	19	-1	282578	1611	17762	3577442	4965	Nc
202	Niue	1059	-1.0	-1	-1.0	1056	-1.0	3	-1	652898	-1	-1	-1	1622	Austra
203	Tokelau	80	-1.0	-1	-1.0	-1	-1.0	80	-1	58055	-1	-1	-1	1378	Austra
204	Total:	703659398	4709.0	6985937	74.0	674392205	17897.0	22281256	35667	90272.9	896.2	-1	-1	-1	

205 rows × 15 columns

```
In [38]: df.info()
```

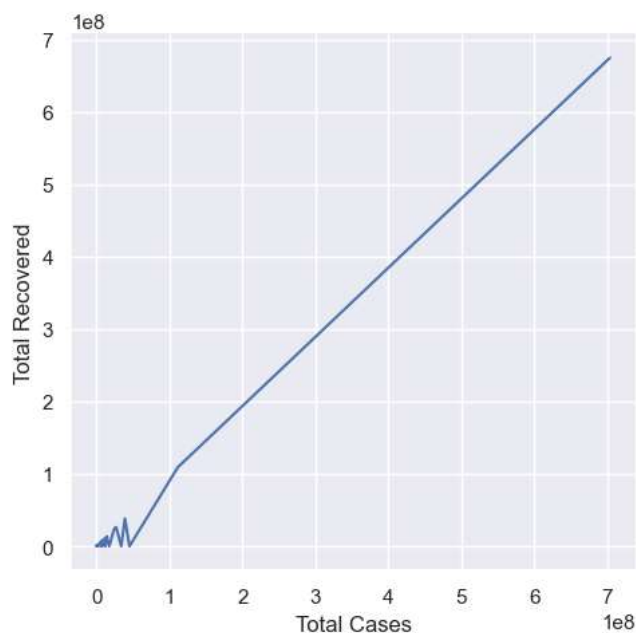
```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 205 entries, 0 to 204
Data columns (total 15 columns):
#   Column                Non-Null Count  Dtype
---  ---
0   Country                205 non-null    object
1   Total Cases            205 non-null    object
2   New Cases              205 non-null    float64
3   Total Deaths          205 non-null    object
4   New Deaths            205 non-null    float64
5   Total Recovered        205 non-null    object
6   New Recovered          205 non-null    float64
7   Active Cases           205 non-null    object
8   Serious Critical        205 non-null    object
9   Total Cases/1M pop     205 non-null    object
10  Death/1M pop           205 non-null    object
11  Total Tests            205 non-null    object
12  Tests/1M pop           205 non-null    object
13  Population              205 non-null    object
14  Continent              205 non-null    object
dtypes: float64(3), object(12)
memory usage: 24.1+ KB
```

```
In [39]: for label in df.columns:
        if label != 'Country' and label != 'Continent':
```

```
In [40]: df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 205 entries, 0 to 204
Data columns (total 15 columns):
#   Column                Non-Null Count  Dtype
---  ---
0   Country                205 non-null    object
1   Total Cases            205 non-null    int64
2   New Cases              205 non-null    float64
3   Total Deaths          205 non-null    int64
4   New Deaths            205 non-null    float64
5   Total Recovered        205 non-null    int64
6   New Recovered          205 non-null    float64
7   Active Cases           205 non-null    int64
8   Serious Critical        205 non-null    int64
9   Total Cases/1M pop     205 non-null    float64
10  Death/1M pop           205 non-null    float64
11  Total Tests            205 non-null    int64
12  Tests/1M pop           205 non-null    int64
13  Population              205 non-null    int64
14  Continent              205 non-null    object
dtypes: float64(5), int64(8), object(2)
memory usage: 24.1+ KB
```

```
In [41]: sns.relplot(x='Total Cases', y='Total Recovered', data=df, kind='line')
```



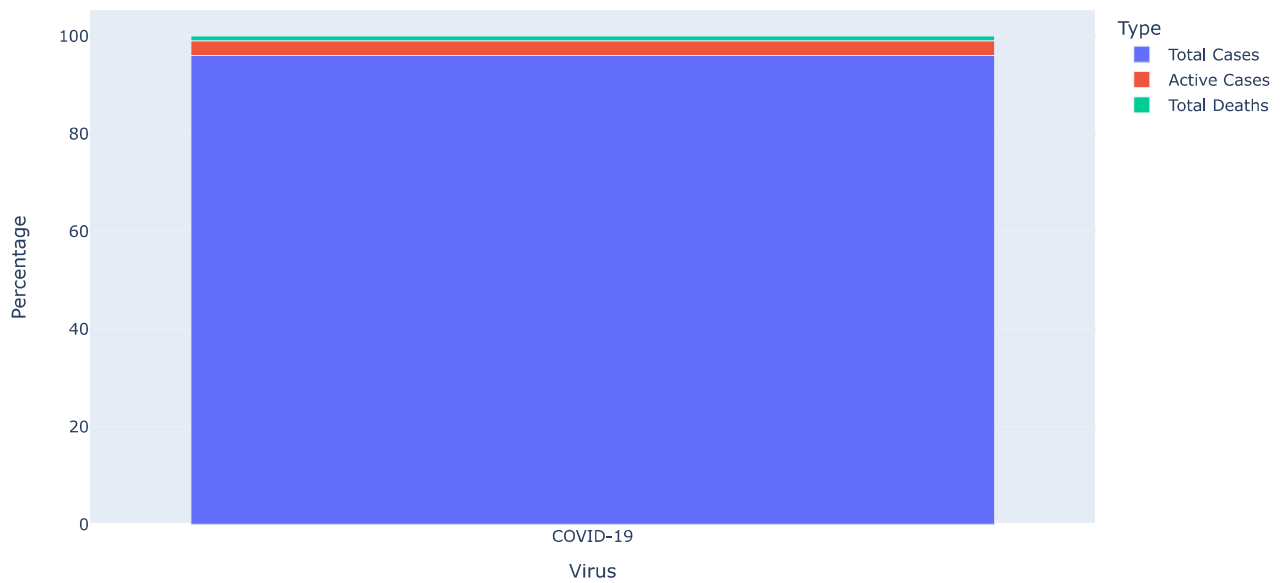
```
In [42]: df["%inc Cases"] = df['New Cases']/df['Total Cases']*100
df["%inc Deaths"] = df['New Deaths']/df['Total Deaths']*100
```

```
In [43]: df.head()
```

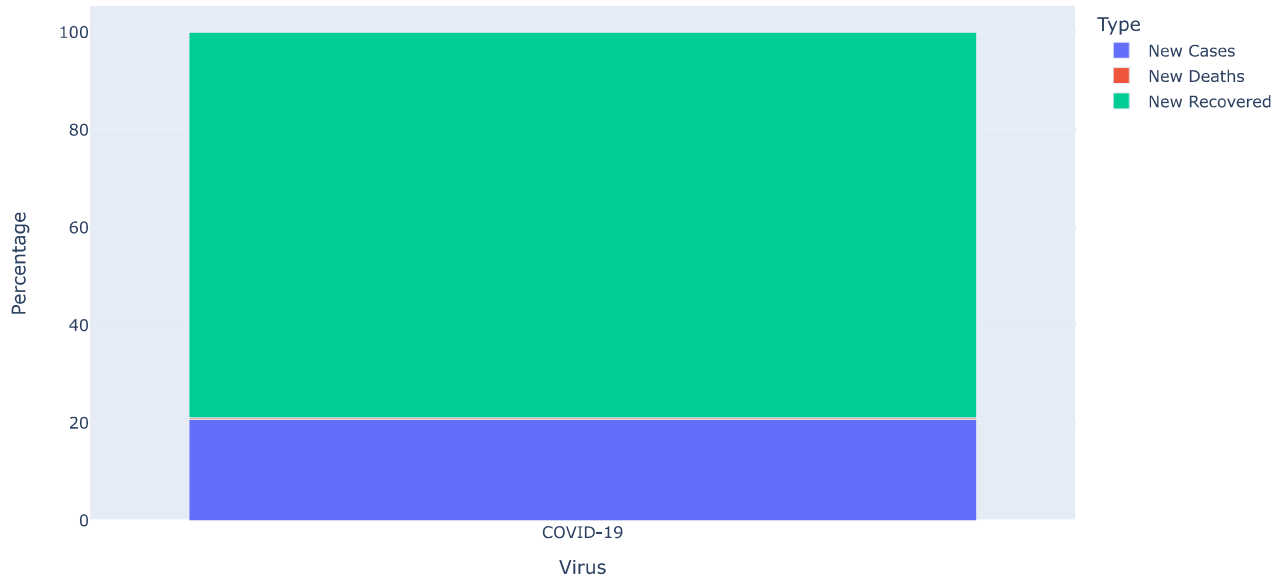
Out[43]:

	Country	Total Cases	New Cases	Total Deaths	New Deaths	Total Recovered	New Recovered	Active Cases	Serious Critical	Total Cases/1M pop	Death/1M pop	Total Tests	Tests/1M pop	Population	Continent
0	World	703659398	4709.0	6985937	74.0	674392205	17897.0	22281256	35667	90273.0	896.2	-1	-1	-1	All
1	USA	111424589	2660.0	1199434	6.0	109118877	9283.0	1106278	1743	332804.0	3582.0	1186764898	3544642	334805269	North America
2	India	45028887	322.0	533477	1.0	0	0.0	0	0	32012.0	379.0	935879495	665334	1406631776	Asia
3	Germany	38820489	431.0	182541	33.0	38240600	-1.0	397348	0	462790.0	2176.0	122332384	1458359	83883596	Europe
4	Brazil	38452504	-1.0	709963	-1.0	36249161	-1.0	1493380	0	178555.0	3297.0	63776166	296146	215353593	South America

```
In [44]: cases = df[['Total Cases', 'Active Cases', 'Total Deaths']].loc[0]
cases_df = pd.DataFrame(cases).reset_index()
cases_df.columns = ['Type', 'Total']
cases_df['Percentage'] = np.round(100*cases_df['Total']/np.sum(cases_df['Total']),2)
cases_df['Virus'] = ["COVID-19" for i in range(len(cases_df))]
fig = px.bar(cases_df, x='Virus', y='Percentage', color='Type', hover_data=['Total'])
```



```
In [45]: cases = df[['New Cases', 'New Deaths', 'New Recovered']].loc[0]
cases_df = pd.DataFrame(cases).reset_index()
cases_df.columns = ['Type', 'Total']
cases_df['Percentage'] = np.round(100*cases_df['Total']/np.sum(cases_df['Total']),2)
cases_df['Virus'] = ["COVID-19" for i in range(len(cases_df))]
fig = px.bar(cases_df, x='Virus', y='Percentage', color='Type', hover_data=['Total'])
```




```
In [46]: df1 = df.drop([len(df)-1])
country_df = df1.drop([0])
```

Out[46]:

	Country	Total Cases	New Cases	Total Deaths	New Deaths	Total Recovered	New Recovered	Active Cases	Serious Critical	Total Cases/1M pop	Death/1M pop	Total Tests	Tests/1M pop	Population	
1	USA	111424589	2660.0	1199434	6.0	109118877	9283.0	1106278	1743	332804.0	3582.0	1186764898	3544642	334805269	Nort
2	India	45028887	322.0	533477	1.0	0	0.0	0	0	32012.0	379.0	935879495	665334	1406631776	
3	Germany	38820489	431.0	182541	33.0	38240600	-1.0	397348	0	462790.0	2176.0	122332384	1458359	83883596	
4	Brazil	38452504	-1.0	709963	-1.0	36249161	-1.0	1493380	0	178555.0	3297.0	63776166	296146	215353593	Sout
5	Japan	33803572	-1.0	74694	-1.0	0	0.0	0	0	269169.0	595.0	100414883	799578	125584838	
...
199	Tuvalu	2943	-1.0	1	-1.0	0	0.0	0	0	243909.0	83.0	-1	-1	12066	Australi
200	Saint Helena	2166	-1.0	-1	-1.0	2	-1.0	2164	-1	354211.0	-1.0	-1	-1	6115	
201	Montserrat	1403	-1.0	8	-1.0	1376	-1.0	19	-1	282578.0	1611.0	17762	3577442	4965	Nort
202	Niue	1059	-1.0	-1	-1.0	1056	-1.0	3	-1	652898.0	-1.0	-1	-1	1622	Australi
203	Tokelau	80	-1.0	-1	-1.0	-1	-1.0	80	-1	58055.0	-1.0	-1	-1	1378	Australi

203 rows × 18 columns

```
In [47]: country_df.shape
```

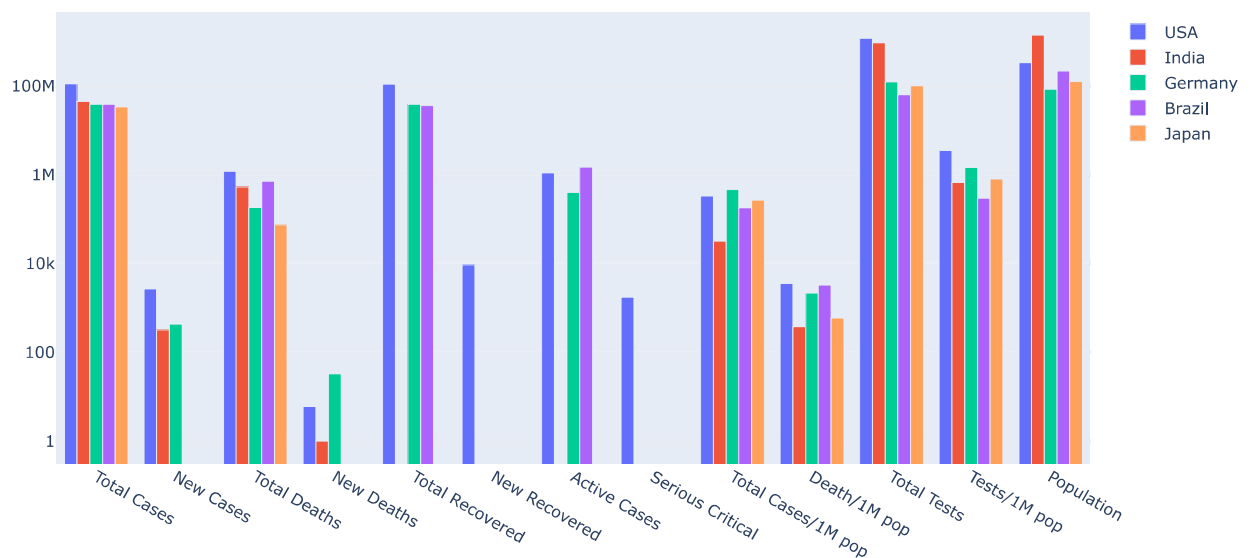
Out[47]: (203, 18)

```
In [48]: Top_Countries = 5
country = country_df.columns[1:14]

fig = go.Figure()
c = 0

for i in country_df.index:
    if c < Top_Countries:
        fig.add_trace(go.Bar(name=country_df['Country'][i],
                               x=country, y = country_df.loc[i][1:14]))
    else:
        break
    c +=1
fig.update_layout(title=f'top {Top_Countries} countries affected', yaxis_type="log")
```

top 5 countries affected



```
In [49]: df['Continent'].value_counts()
```

```
Out[49]: Africa          53
Asia          42
Europe        42
North America 37
Australia/Oceania 19
South America 10
All           2
Name: Continent, dtype: int64
```

```
In [50]: continent_df = df.groupby('Continent').sum().drop('All')
continent_df = continent_df.reset_index()
```

```
Out[50]:
```

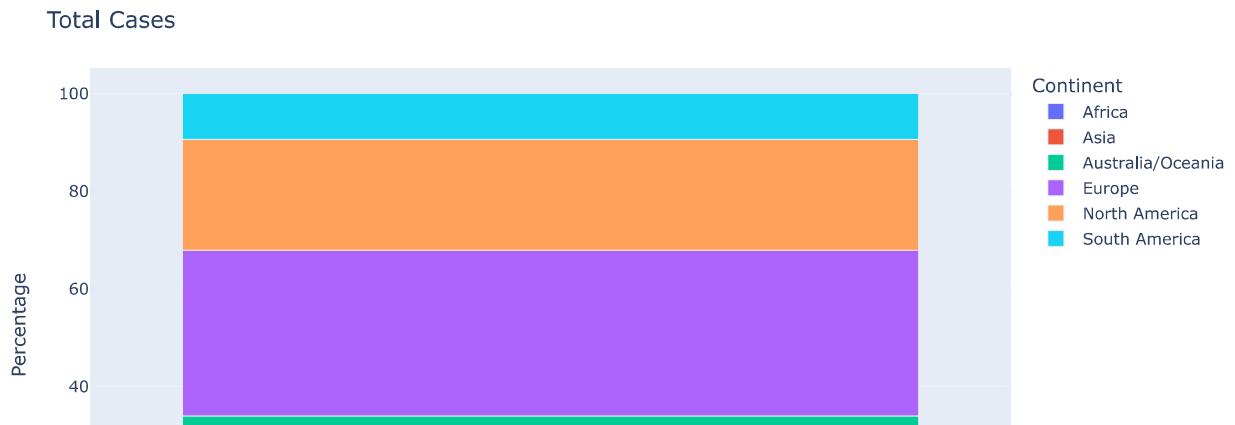
	Continent	Total Cases	New Cases	Total Deaths	New Deaths	Total Recovered	New Recovered	Active Cases	Serious Critical	Total Cases/1M pop	Death/1M pop	Total Tests	Tests/1M pop	Population
0	Africa	12727994	-53.0	253481	-53.0	9084723	-46.0	330916	357	1961359.0	16332.0	110416058	10774326	1356121214
1	Asia	168945577	422.0	1469083	-40.0	56200931	568.0	1411644	345	6043553.0	30919.0	2177719443	82189893	3116134094
2	Australia/Oceania	14814093	765.0	32677	12.0	2748000	-13.0	27962	2	4726665.0	9376.0	91668032	21284787	43410351
3	Europe	196334124	771.0	1752368	-2.0	185119180	6890.0	897709	429	16936961.0	115196.0	2303868918	179486756	617154618
4	North America	131450788	2624.0	1675058	-30.0	125732553	10098.0	1666052	1872	8563768.0	57939.0	1325230081	96278274	598014701
5	South America	54104183	-10.0	976816	-10.0	50549696	-8.0	1679044	622	1657390.0	21778.0	167578055	9486465	339883101

```
In [51]: cases_list = ["Total Cases", "Total Deaths", "Total Recovered", "New Cases", "New Deaths"]
```

```
In [52]: def continent_visaulization(v_list):
    for label in v_list:
        c_df = continent_df[['Continent', label]]
        c_df['Percentage'] = np.round(100*c_df[label]/np.sum(c_df[label]),2)
        c_df['Virus'] = ["COVID-19" for i in range(len(c_df))]
        fig = px.bar(c_df, x='Virus', y='Percentage', color='Continent', hover_data=[label])
        fig.update_layout(title={"text": f"{label}"})

        fig.show()
```

```
In [53]: continent_visaulization(cases_list)
```



```
In [ ]:
```