In [1]:

```
import pandas as pd #Data analysis and manipulation
import matplotlib.pyplot as plt #Data visualization
import plotly.offline as py #creates functions both online and offline mode
import plotly.graph_objs as go #tracing objects
import plotly.express as px #easier and faster to create plotly figures
import plotly.io as pio #display the figure using the current default renderer(s)
import csv
```

In [2]:

```
df = pd.read_csv("covid.csv")
```

In [3]:

```
df.drop(['NewCases', 'NewDeaths',  'NewRecovered'], axis=1,inplace=True)
```

In [4]:

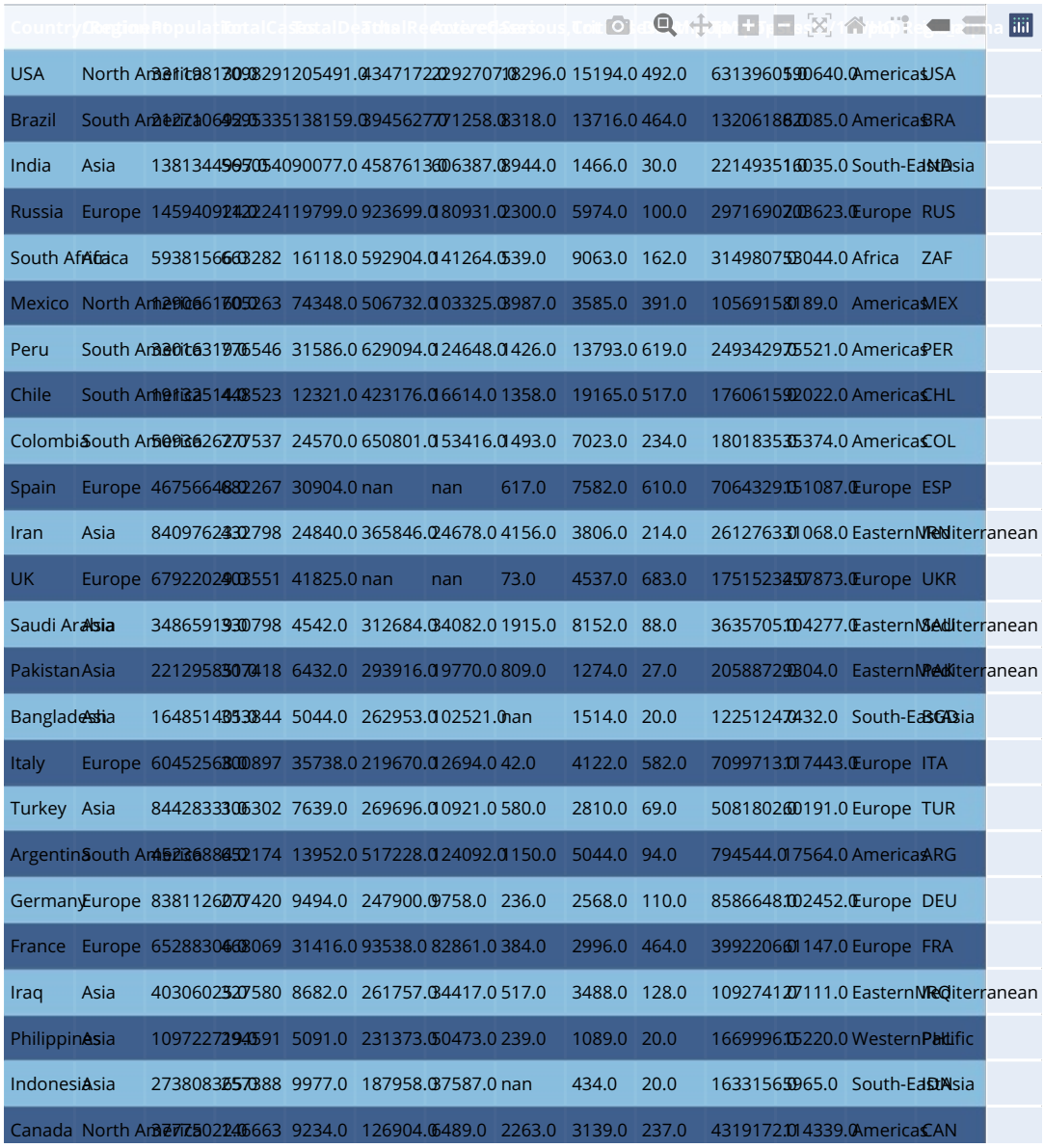
```
df.columns
```

Out[4]:

```
Index(['Country/Region', 'Continent', 'Population', 'TotalCases',
       'TotalDeaths', 'TotalRecovered', 'ActiveCases', 'Serious,Critical',
       'Tot Cases/1M pop', 'Deaths/1M pop', 'TotalTests', 'Tests/1M pop',
       'WHO Region', 'iso_alpha'],
      dtype='object')
```

In [5]:

```
from plotly.figure_factory import create_table
table=create_table(df.head(50), colorscale="blues")
py.iplot(table)
```

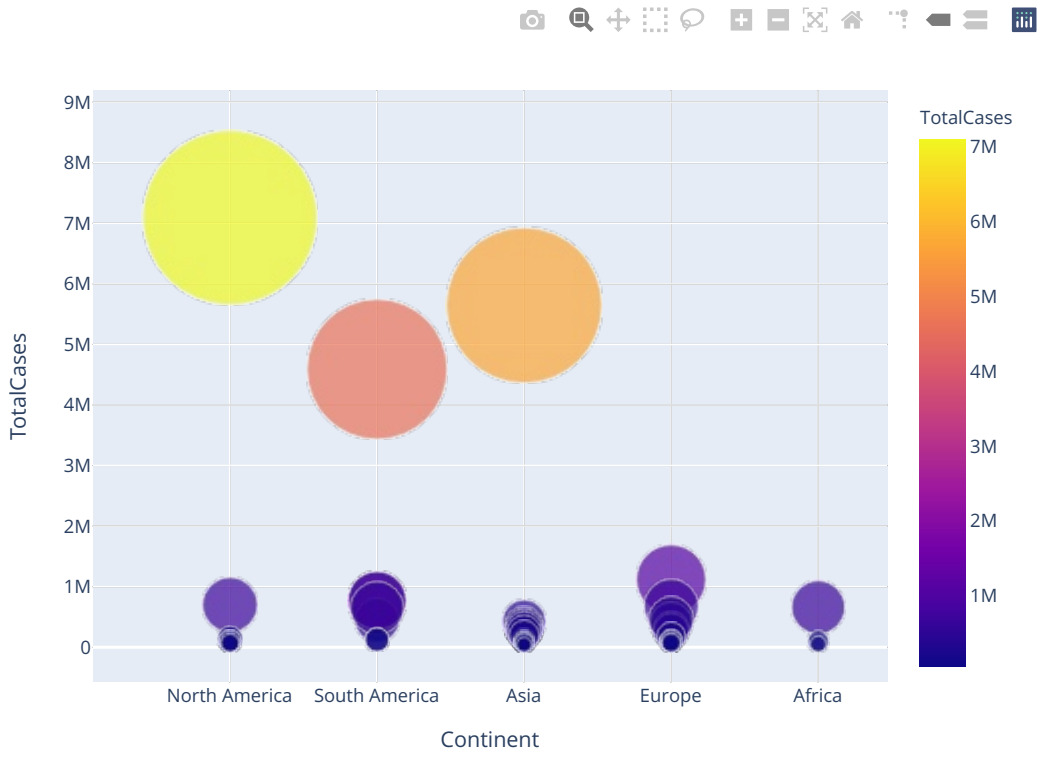


Qatar	Asia	2807805	124175	212.0	121006.0	3083.0	77.0	39922.0	63.0	511000.0	181993.0	Eastern	QAT	Mediterranean
Kazakhstan	Asia	1879866	707450	1699.0	102064.0	26013.0	221.0	5104.0	56.0	2163713.0	15099.0	Europe	KAZ	
Egypt	Africa	10251652	562254	5806.0	91143.0	41157.0	41.0	927.0	48.0	135000.0	1317.0	Eastern	EGY	Mediterranean
Ecuador	South America	1766382	427643	11126.0	102852.0	13342.0	378.0	5124.0	333.0	258582.0	14635.0	Americas	ECU	
Bolivia	South America	1168459	131453	7693.0	90853.0	55585.0	71.0	7394.0	296.0	183583.0	15706.0	Americas	BOL	
Sweden	Europe	10105598	897756	5876.0	nan	nan	38.0	8111.0	571.0	863315.0	85429.0	Europe	SWE	
Oman	Asia	5118446	95339	875.0	86482.0	9311.0	177.0	15769.0	96.0	309212.0	60411.0	Eastern	OMN	Mediterranean
Israel	Asia	9197590	2033136	1316.0	144686.0	25556.0	358.0	8650.0	63.0	1872453	203581.0	Europe	ISR	
Ukraine	Europe	4370585	884734	3705.0	81670.0	32465.0	158.0	1757.0	42.0	1116641	25549.0	Europe	UKR	
Dominican Republic	North America	1085864	809737	2074.0	83434.0	34751.0	317.0	7048.0	115.0	281926.0	25963.0	Americas	DOM	
Panama	North America	432128	207284	2285.0	83318.0	24186.0	161.0	16527.0	364.0	240995.0	55769.0	Americas	PAN	
Belgium	Europe	1159473	905226	9955.0	19039.0	43638.0	61.0	6137.0	850.0	1767120	152407.0	Europe	BEL	
Kuwait	Asia	4276658	101299	590.0	92341.0	7966.0	127.0	16378.0	110.0	522200.0	122105.0	Eastern	KWT	Mediterranean
Belarus	Europe	9449001	76357	796.0	73564.0	4167.0	nan	7250.0	61.0	1344303	142269.0	Europe	BLR	
UAE	Asia	9902079	87530	406.0	76995.0	5752.0	nan	6246.0	36.0	5262658	531470.0	Eastern	Mediterranean	
Romania	Europe	1922402	316415	4550.0	93558.0	26337.0	458.0	3012.0	133.0	1319369	68631.0	Europe	ROU	
Netherlands	Europe	1713875	600597	6296.0	nan	nan	37.0	3325.0	359.0	1079860	38007.0	Europe	NLD	
Singapore	Asia	5854932	57639	27.0	57291.0	6497.0	nan	9318.0	5.0	1474372	251817.0	Western	Pacific	
Guatemala	North America	1794689	97442	3154.0	76459.0	10150.0	5.0	3028.0	118.0	172712.0	9624.0	Americas	GTM	
Portugal	Europe	1019359	20465	1928.0	46290.0	12478.0	42.0	5107.0	171.0	1705474	167308.0	Europe	PRT	
Poland	Europe	3784230	216673	2344.0	65561.0	12099.0	72.0	1308.0	47.0	2374686	62752.0	Europe	POL	
Nigeria	Africa	2066063	50613	1100.0	48836.0	11884.0	7.0	219.0	5.0	306894.0	1485.0	Africa	NGA	
Honduras	North America	991327	72306	2206.0	23230.0	37559.0	52.0	4546.0	143.0	109292.0	11018.0	Americas	HND	
Bahrain	Asia	1706696	6402	231.0	59367.0	2788.0	41.0	25130.0	91.0	876700.0	513691.0	Eastern	BHR	Mediterranean
Japan	Asia	1264358	39438	1508.0	71648.0	12360.0	115.0	334.0	8.0	938739.0	7425.0	Western	JPN	Pacific
Armenia	Asia	296381	4877	942.0	43026.0	7491.0	nan	13435.0	260.0	171600.0	57898.0	Europe	ARM	

Total Cases vs Continents

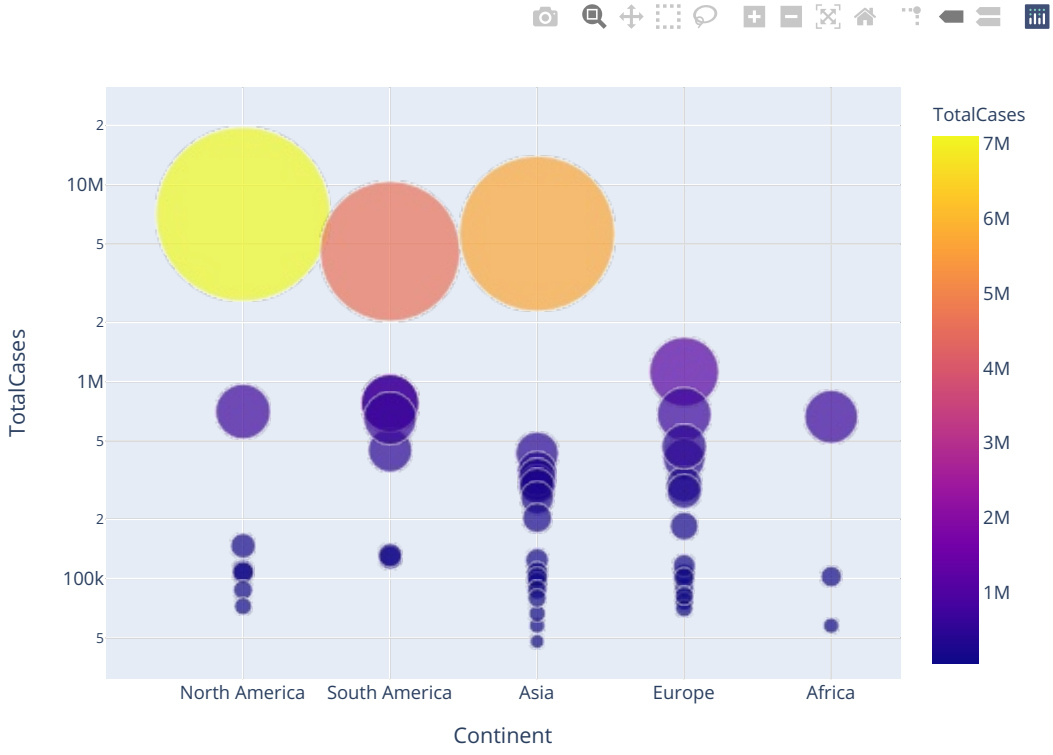
In [6]:

```
px.scatter(df.head(50), x='Continent', y='TotalCases', color='TotalCases', hover_data=['Country/Region', 'Continent'], size='TotalCases', size_max=80)
```



In [7]:

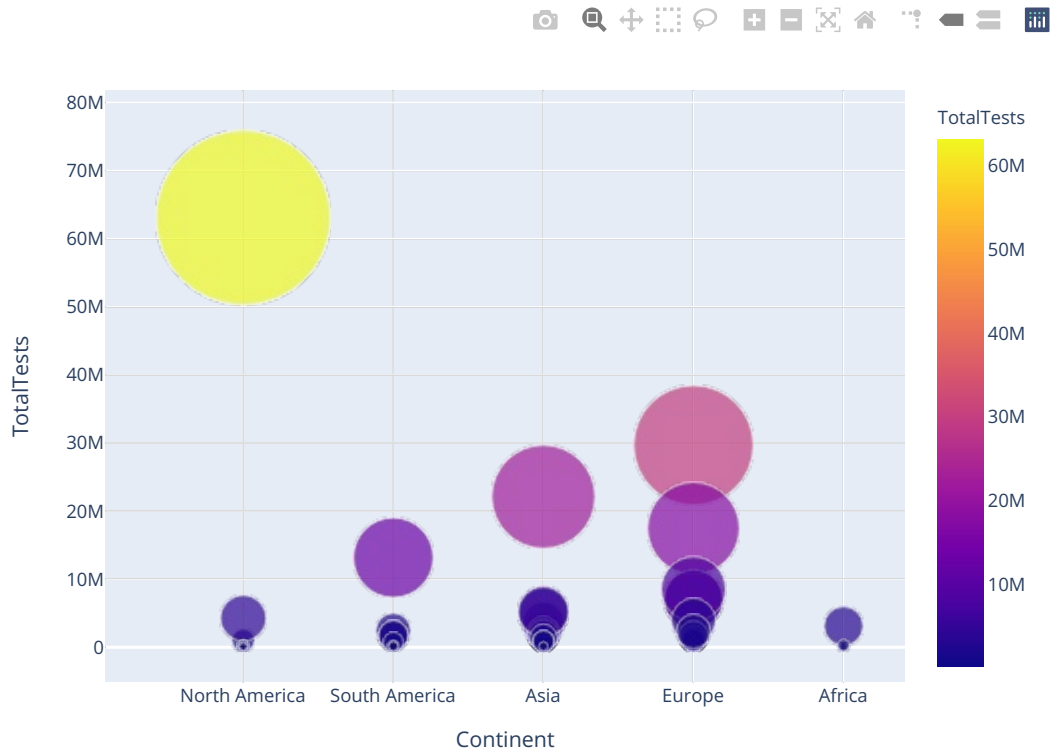
```
px.scatter(df.head(50), x='Continent', y='TotalCases', color='TotalCases', hover_data=['Country/Region', 'Continent'], size='TotalCases', size_max=80, log_y=True)
```



Total Tests vs Continents

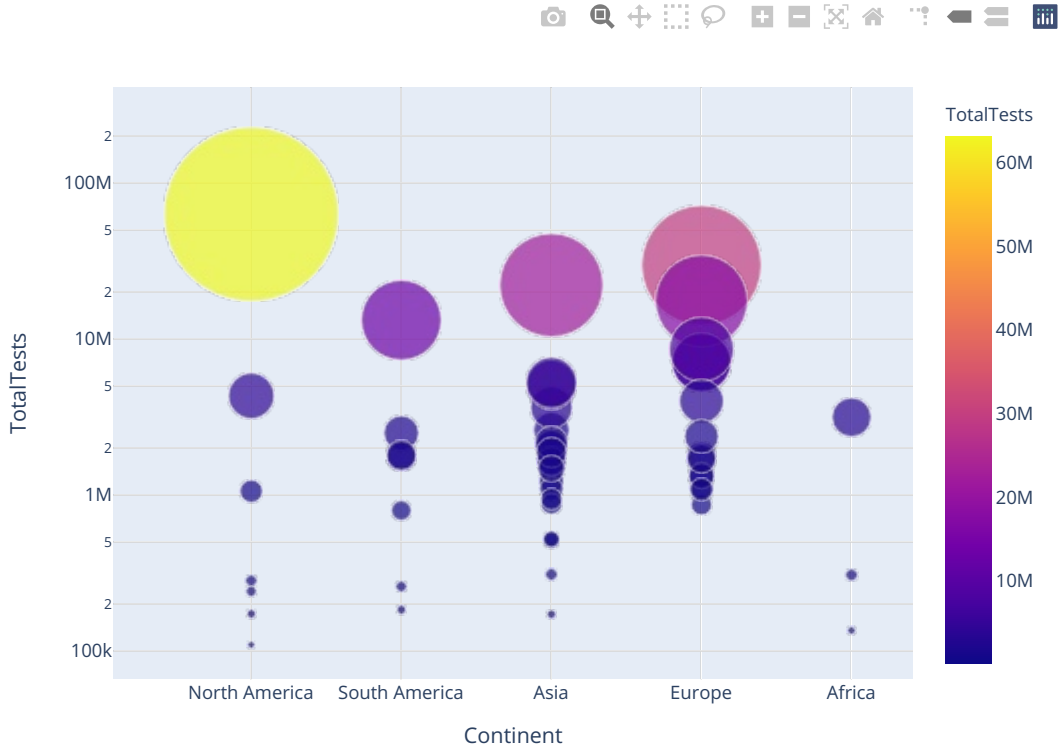
In [8]:

```
px.scatter(df.head(50), x='Continent', y='TotalTests', color='TotalTests', hover_data=['Country/Region', 'Continent'], size='TotalTests', size_max=80)
```



In [9]:

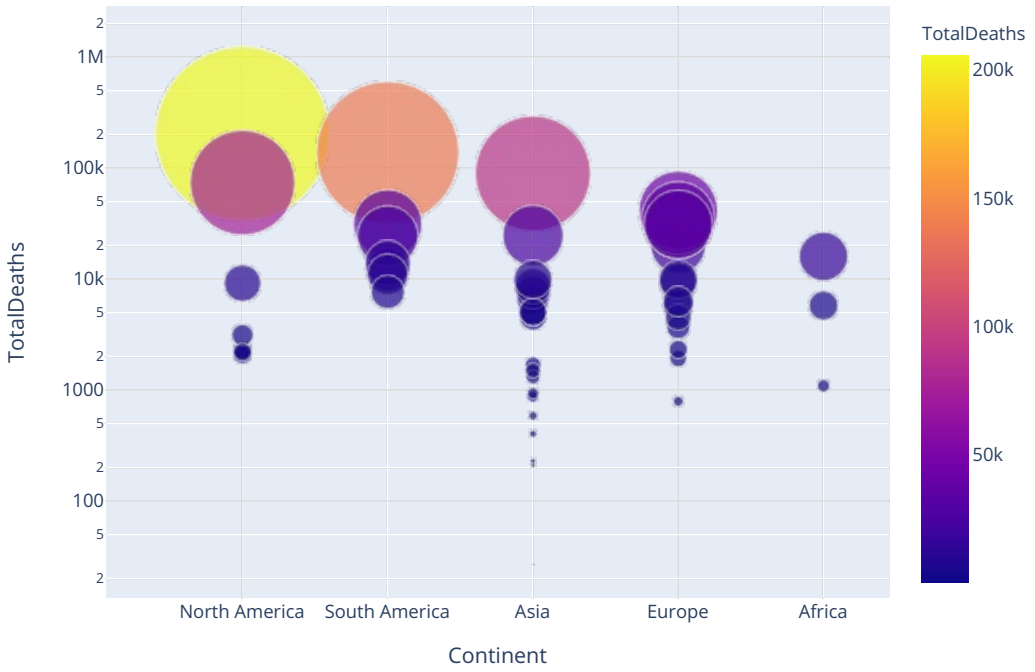
```
px.scatter(df.head(50), x='Continent', y='TotalTests', color='TotalTests', hover_data=['Country/Region', 'Continent'], size='TotalTests', size_max=80, log_y=True)
```



Total Deaths vs Continents

In [10]:

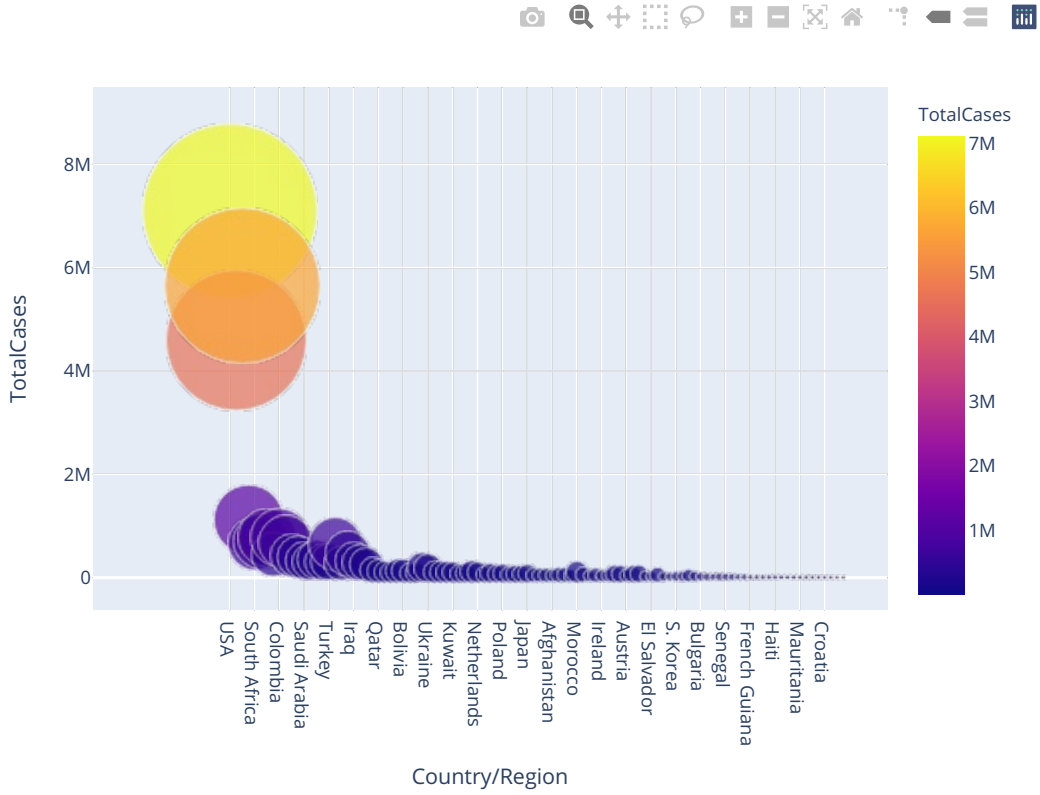
```
px.scatter(df.head(50), x='Continent', y='TotalDeaths', color='TotalDeaths', hover_data=['Country/Region', 'Continent'], size='TotalDeaths', size_max=80, log_y=True)
```



Total Cases vs Countries

In [11]:

```
px.scatter(df.head(100), x='Country/Region', y='TotalCases', color='TotalCases', hover_data=['Country/Region', 'Continent'], size='TotalCases', size_max=80)
```



In [12]:

```
px.scatter(df.head(10), x='Country/Region', y='TotalCases', color='Country/Region', hover_data=['Country/Region',
'Continent'], size='TotalCases', size_max=80, log_y=True)
```

Total Deaths vs countries

In [13]:

```
px.scatter(df.head(10), x='Country/Region', y='TotalDeaths', color='Country/Region', hover_data=['Country/Region'
, 'Continent'], size='TotalDeaths', size_max=80)
```

Total Tests/1M vs Countries

In [14]:

```
px.scatter(df.head(30), x='Country/Region', y='Tests/1M pop', color='Country/Region', hover_data=['Country/Region
', 'Continent'], size='Tests/1M pop', size_max=80)
```

In [15]:

```
px.scatter(df.head(30), x='Country/Region', y='Tests/1M pop', color='Tests/1M pop', hover_data=['Country/Region',
'Continent'], size='Tests/1M pop', size_max=80)
```

Total Cases vs Deaths

In [16]:

```
px.scatter(df.head(30), x='TotalCases', y='TotalDeaths', color='TotalDeaths', hover_data=['Country/Region', 'Cont
inent'], size='TotalDeaths', size_max=80)
```

In [17]:

```
px.scatter(df.head(30), x='TotalCases', y='TotalDeaths', color='TotalDeaths', hover_data=['Country/Region', 'Cont
inent'], size='TotalDeaths', size_max=80, log_x=True, log_y=True)
```

Total Tests vs Total Cases

In [18]:

```
px.scatter(df.head(30), x='TotalTests', y='TotalCases', color='TotalTests', hover_data=['Country/Region', 'Continent'], size='TotalTests', size_max=80, log_x=True, log_y=True)
```