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
```

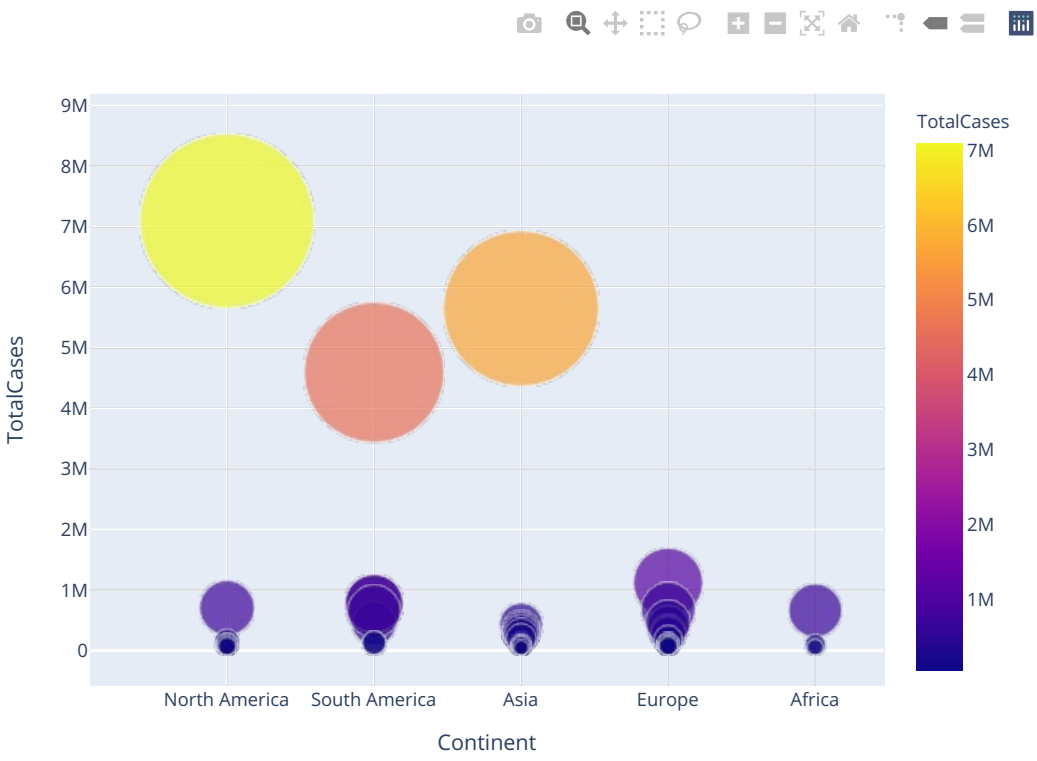
Out[4]:

```
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')
```

Total Cases vs Continents

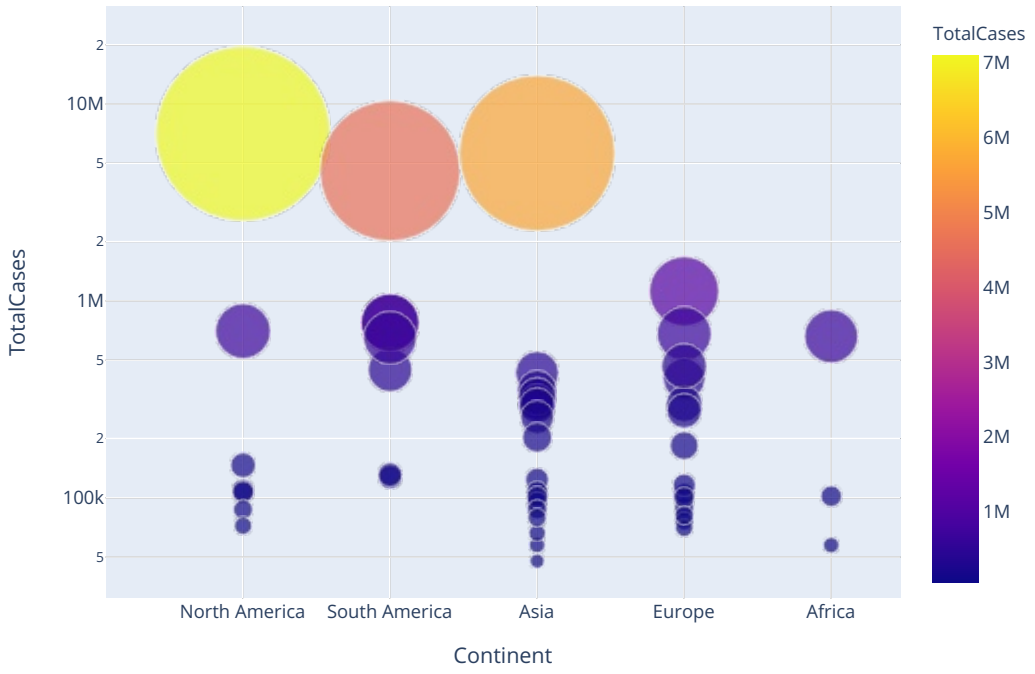
In [5]:

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



In [6]:

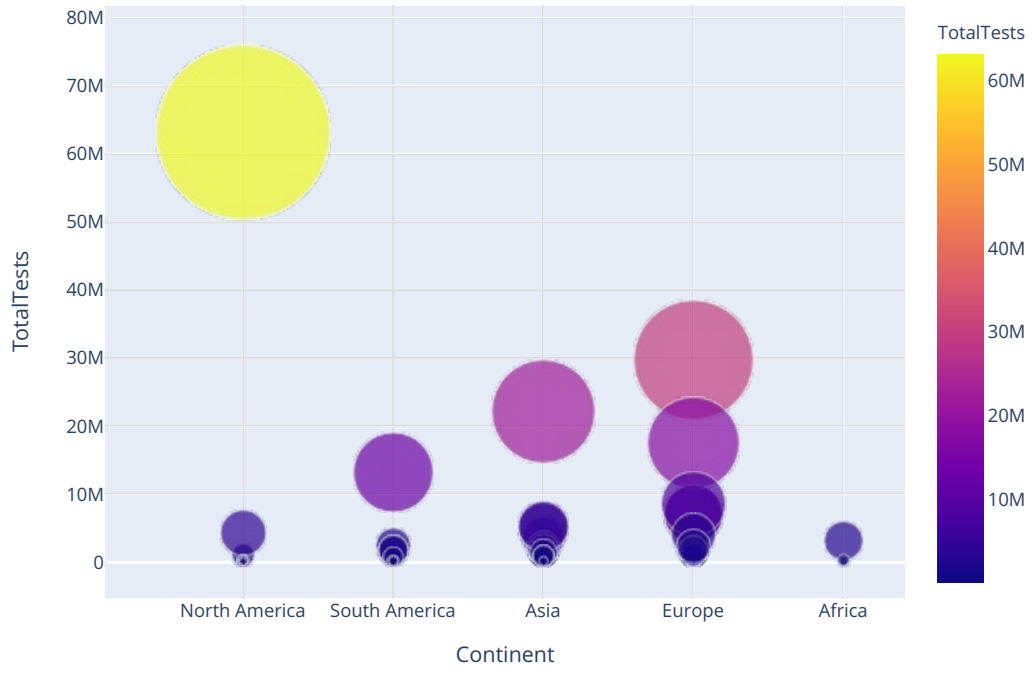
```
px.scatter(df.head(50), x='Continent', y='TotalCases', color='TotalCases', hover_data=['Country/Region', 'Continent'], size='TotalCases', size_max=80, log_y=True)
```



Total Tests vs Continents

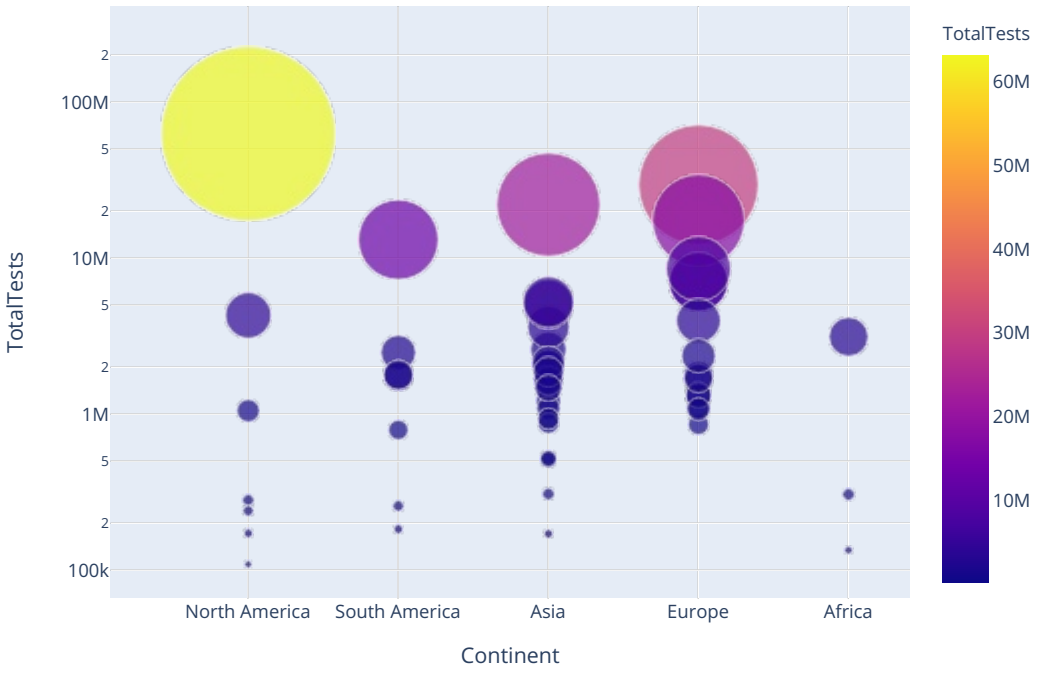
In [7]:

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



In [9]:

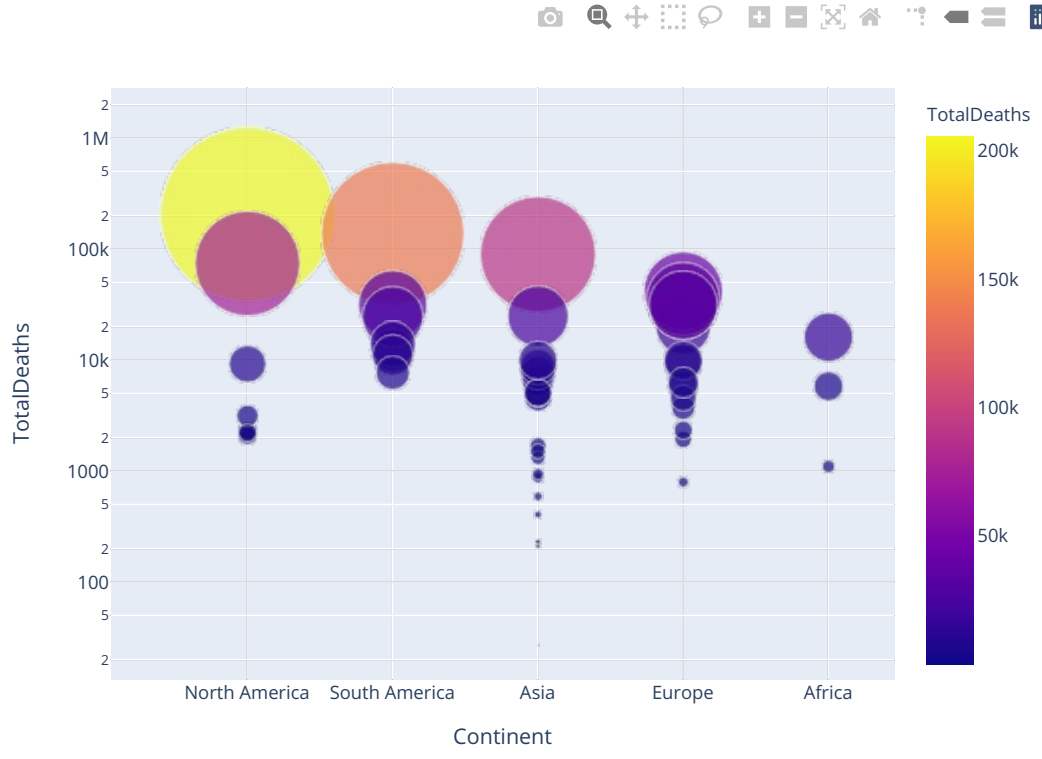
```
px.scatter(df.head(50), x='Continent', y='TotalTests', color='TotalTests', hover_data=['Country/Region', 'Continent'], size='TotalTests', size_max=80, log_y=True)
```



Total Deaths vs Continents

In [8]:

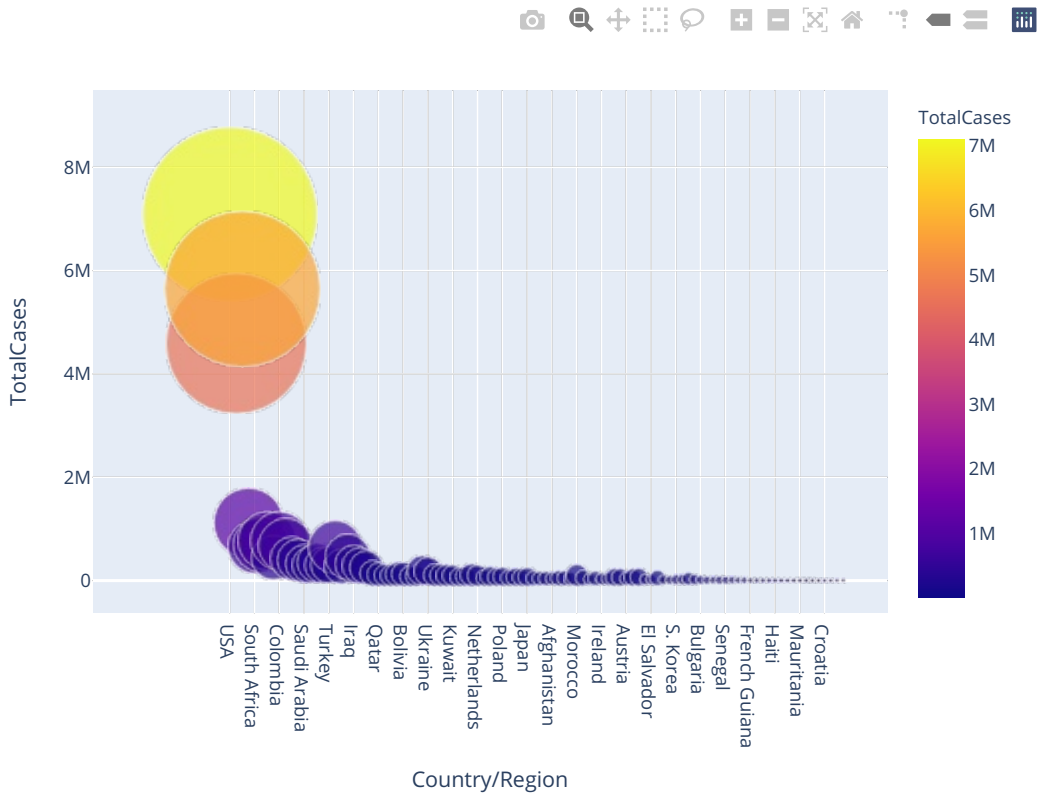
```
px.scatter(df.head(50), x='Continent', y='TotalDeaths', color='TotalDeaths', hover_data=['Country/Region', 'Continent'], size='TotalDeaths', size_max=80, log_y=True)
```



Total Cases vs Countries

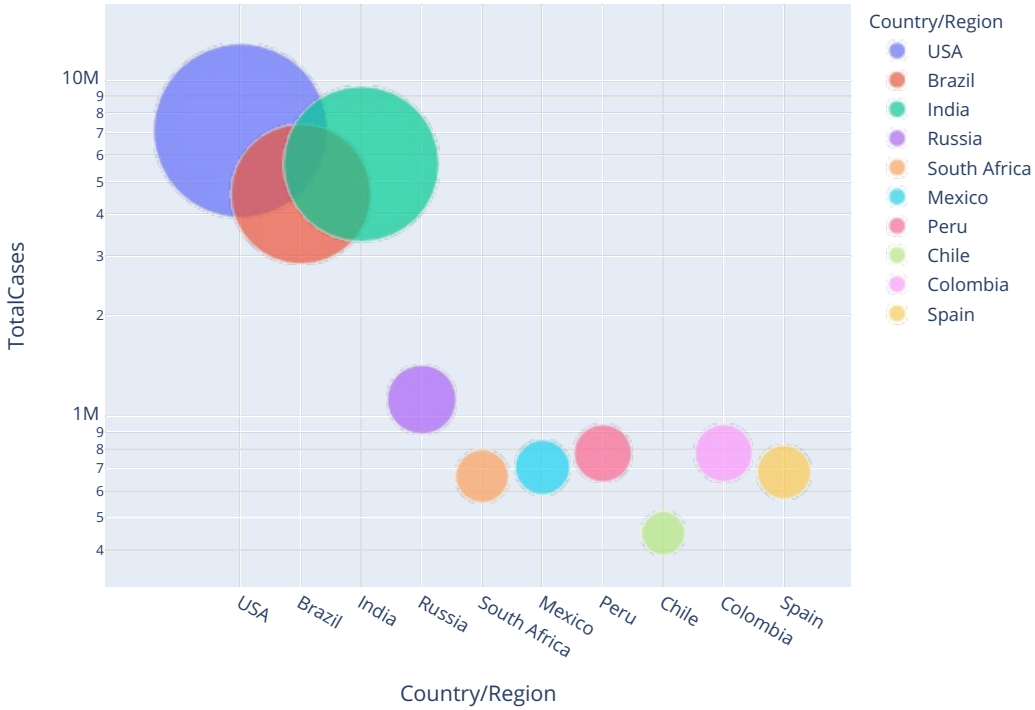
In [9]:

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



In [10]:

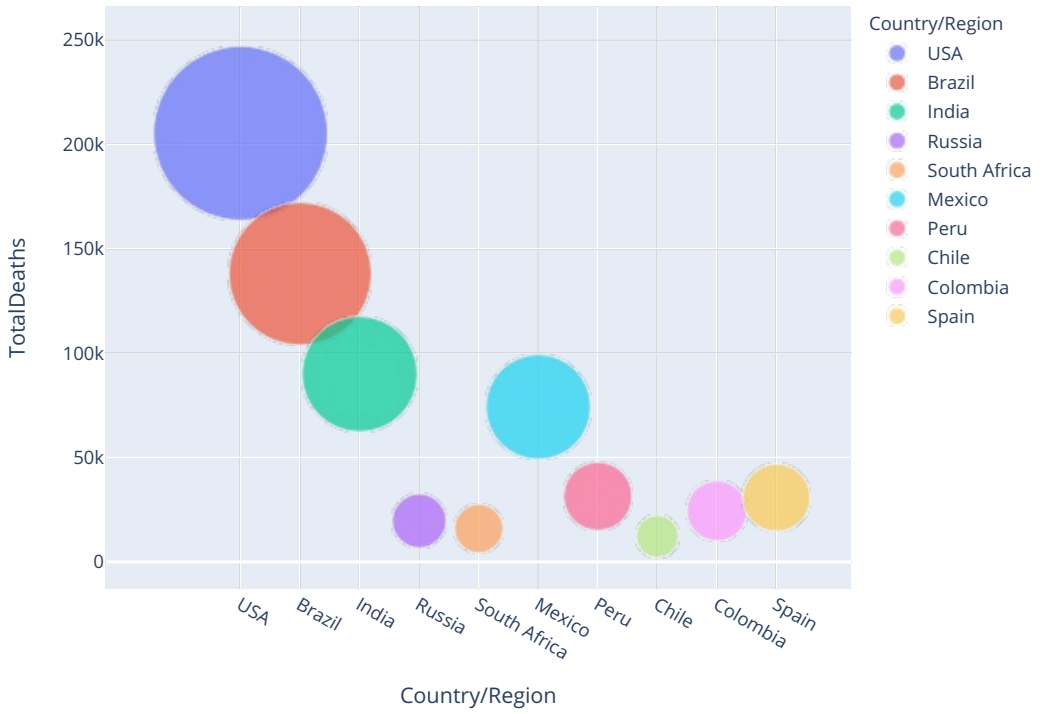
```
px.scatter(df.head(10), x='Country/Region', y='TotalCases', color='Country/Region', hover_data=['Country/Region', 'Continent'], size='TotalCases', size_max=80, log_y=True)
```



Total Deaths vs countries

In [11]:

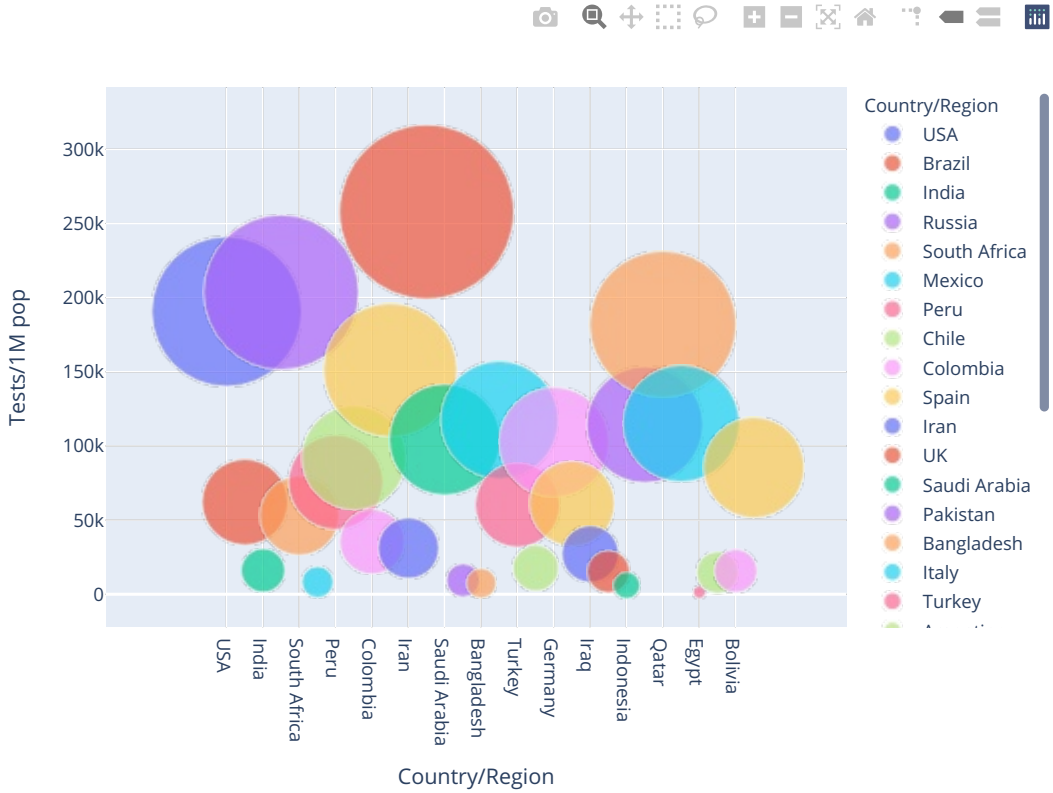
```
px.scatter(df.head(10), x='Country/Region', y='TotalDeaths', color='Country/Region', hover_data=['Country/Region'
, 'Continent'], size='TotalDeaths', size_max=80)
```



Total Tests/1M vs Countries

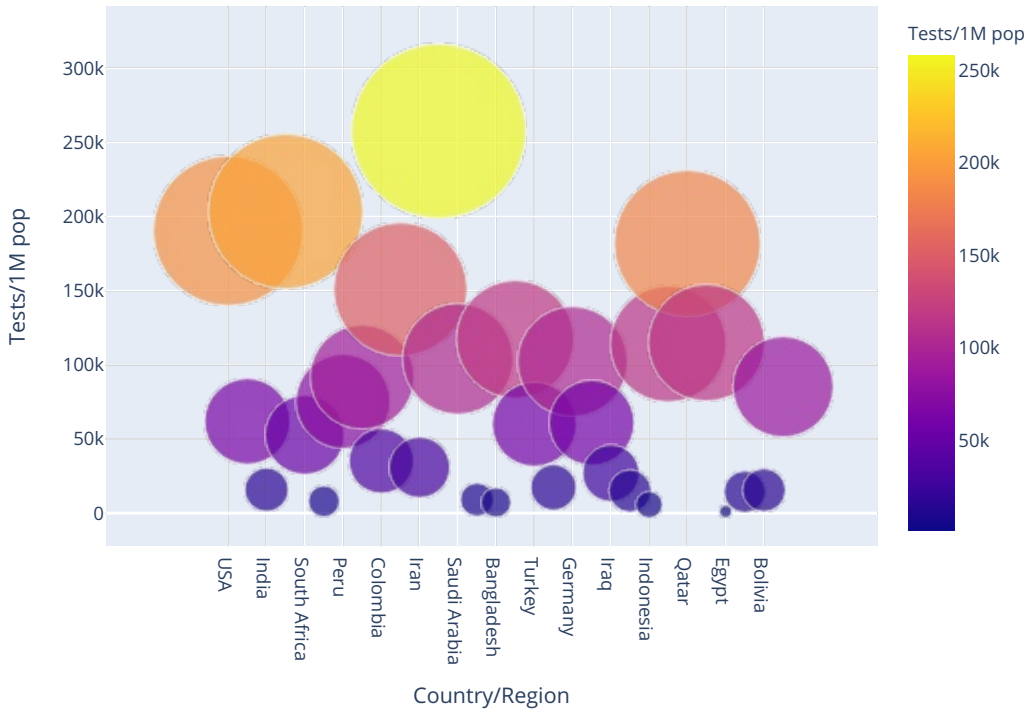
In [12]:

```
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 [13]:

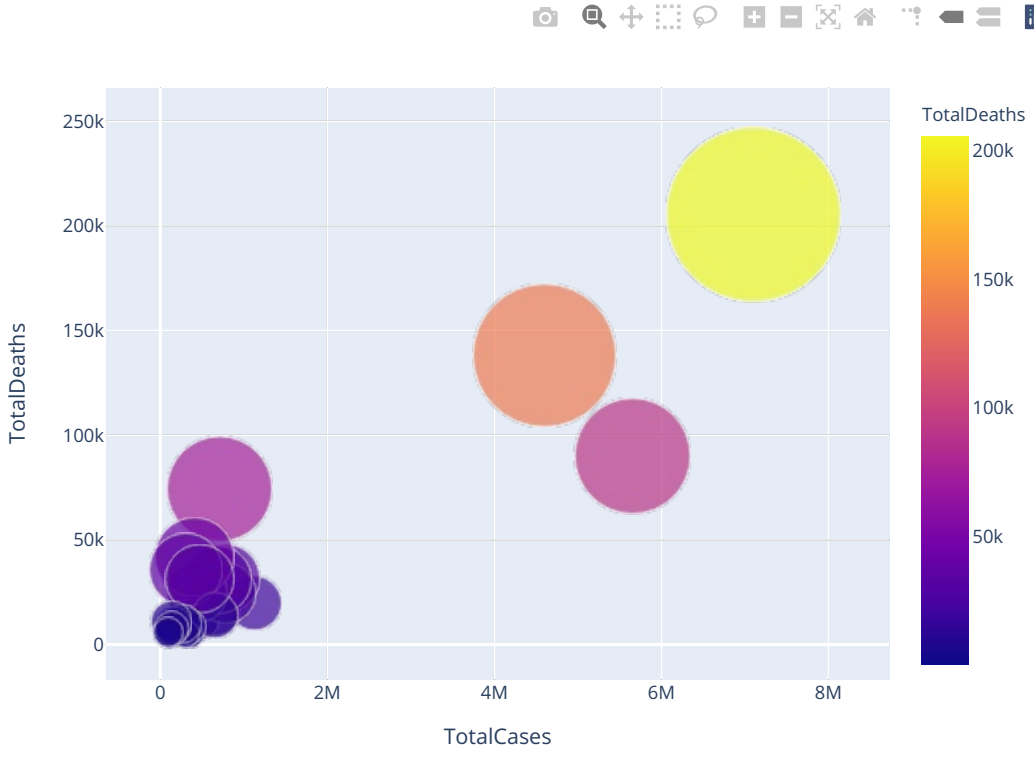
```
px.scatter(df.head(30), x='Country/Region', y='Tests/1M pop', color='Tests/1M pop', hover_data=['Country/Region',
'Continent'], size='Tests/1M pop', size_max=80)
```



Total Cases vs Deaths

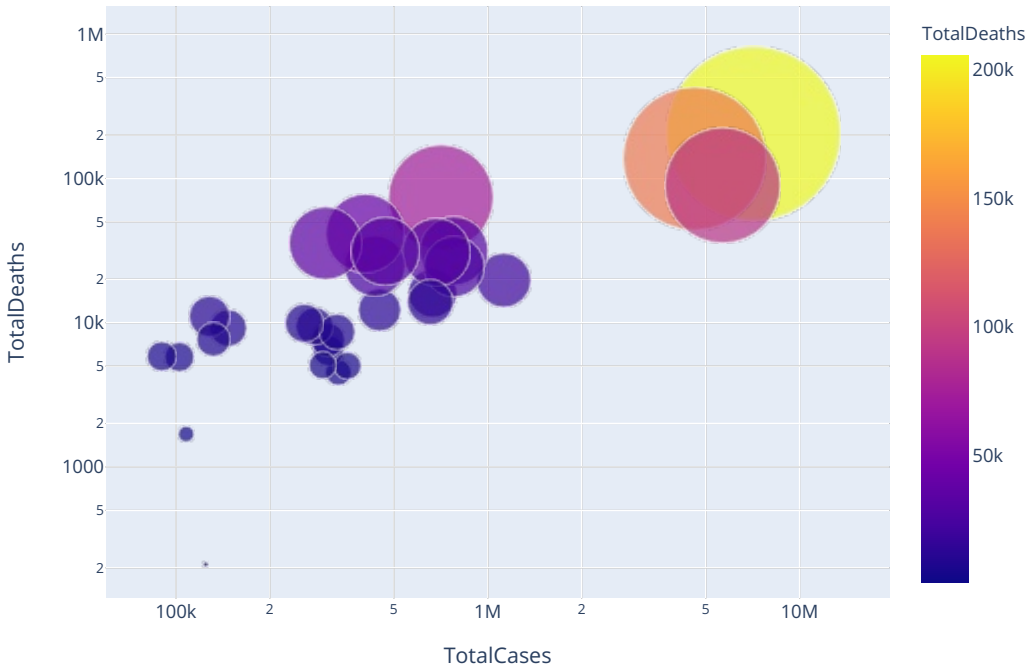
In [14]:

```
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 [15]:

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