```
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]:

In [5]:

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

Country	/Cogios	Ropula	tifurtalCa	sīeust a l D e	athalRe	datere 6	as a second	, Coit O	Q 4	op + j − [X] roppii • − s a iii
USA	North A	.raafiita8	1 30 938291	205491.	0434717	22029270	7 10 8296.0	15194.0	492.0	6313960 5 900640.0America \$ JSA
Brazil	South A	.r2\e2\ta0	5 4295 335	5138159.	3 94562	7 70 71258.	.08318.0	13716.0	464.0	1320618 62 085.0 America £ RA
India	Asia	138134	4 9070 540	90077.0	458761	36006387.	.08944.0	1466.0	30.0	2214935 16 0035.0 South-Ea M2 sia
Russia	Europe	1459409	9 2420 2241	19799.0	923699	.0 80931.	.02300.0	5974.0	100.0	2971690 2 03623. E urope RUS
South A	f Æt aca	593815	6 6 633282	16118.0	592904	.0141264.	.0539.0	9063.0	162.0	3149807 53 8044.0 Africa ZAF
Mexico	North A	.r1h 29106 6	1 80 50263	74348.0	506732	.0103325.	.03987.0	3585.0	391.0	1056915 8 089.0 America M EX
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Spain	Europe	467566	4 682 267	30904.0	nan	nan	617.0	7582.0	610.0	7064329.1351087.0£urope ESP
Iran	Asia	8409762	24302798	24840.0	365846	. 0 24678.0	4156.0	3806.0	214.0	2612763301068.0 Eastern NPeNsiterranea
UK	Europe	6792202	2 9 03551	41825.0	nan	nan	73.0	4537.0	683.0	1751523 250 7873. Œ urope UKR
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Pakistar	Asia	221295	8 307 0418	6432.0	293916	. 0 19770.0	809.0	1274.0	27.0	20588729004.0 Eastern MPAditerranea
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Italy	Europe	604525	5 800 897	35738.0	219670	.012694.0	42.0	4122.0	582.0	7099713.017443.Œurope ITA
Turkey	Asia	844283	3 306 302	7639.0	269696	.010921.0	580.0	2810.0	69.0	5081802 6 0191.0 Europe TUR
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German	<u>)</u> Europe	838112	5 20707 420	9494.0	247900	.09758.0	236.0	2568.0	110.0	8586648.1002452.0Europe DEU
France	Europe	6528830	04638069	31416.0	93538.0	82861.0	384.0	2996.0	464.0	3992206 6 1147.0 Europe FRA
Iraq	Asia	4030602	2 327 580	8682.0	261757	.034417.0	517.0	3488.0	128.0	1092741 20 7111.0 Eastern NRQ iterranea
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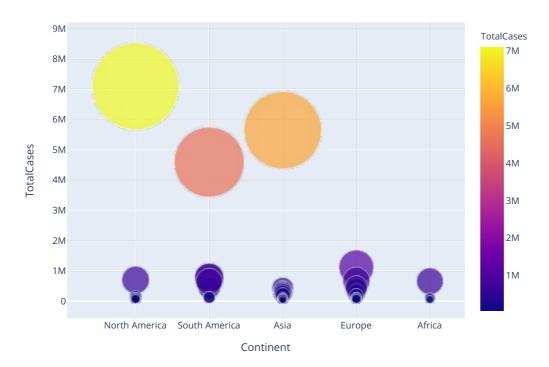
Qatar	Asia	28078051024175	212.0	121006.0	8083.0	77.0	39922.0	63.0	511000.0181993.ŒasternMATiterranean
Kazakhs	s tAs ia	1879866 707 450	1699.0	102064.0	26013.0	221.0	5104.0	56.0	2163713.015099.Œurope KAZ
Egypt	Africa	1025165 26 2 2 54	5806.0	91143.04	11157.0	41.0	927.0	48.0	135000.01317.0 EasternMEd/Iterranean
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Bolivia	South A	vrh é6i&8 45 930 1453	7693.0	90853.0 5	55585.0	71.0	7394.0	296.0	183583.015706.0 America S OL
Sweden	Europe	1010559 897 56	5876.0	nan r	nan	38.0	8111.0	571.0	863315. 8 5429.0 Europe SWE
Oman	Asia	511844695339	875.0	86482.0 9	9311.0	177.0	15769.0	96.0	309212.060411.0 Eastern Mod Merranean
Israel	Asia	91975902003136	1316.0	144686.0	25556.0	358.0	8650.0	63.0	1872453 2 003581. Œ urope ISR
Ukraine	Europe	4370585 88 4734	3705.0	81670.03	32465.0	158.0	1757.0	42.0	1116641 2 Б549.0 Europe UKR
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Panama	a North A	maa2ita821007284	2285.0	83318.0 2	24186.0	161.0	16527.0	364.0	240995.₲5769.0 America₽AN
Belgium	n Europe	1159473905226	9955.0	19039.04	13638.0	61.0	6137.0	850.0	1767120.1352407. Œ urope BEL
Kuwait	Asia	42766581001299	590.0	92341.0 7	7966.0	127.0	16378.0	110.0	522200.0122105.ŒasternMadīterranean
Belarus	Europe	9449001706357	796.0	73564.0 4	1167.0	nan	7250.0	61.0	1344303.042269.Œurope BLR
UAE	Asia	9902079807530	406.0	76995.0 5	5752.0	nan	6246.0	36.0	52626585031470. Œastern Mediterranean
Romani	aEurope	19224023105415	4550.0	93558.0 2	26337.0	458.0	3012.0	133.0	1319369 68 631.0 Europe ROU
Netherl	a lāudis ope	17138756000597	6296.0	nan r	nan	37.0	3325.0	359.0	10798606B007.0 Europe NLD
Singapo	or A sia	5854932507639	27.0	57291.0 6	5497.0	nan	9318.0	5.0	1474372 2 Б1817. 0 Western B 6 d fic
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Portuga	lEurope	1019359 3 0465	1928.0	46290.0 1	12478.0	42.0	5107.0	171.0	1705474.067308.Œurope PRT
Poland	Europe	3784230 2 10673	2344.0	65561.0 1	12099.0	72.0	1308.0	47.0	237468662752.0 Europe POL
Nigeria	Africa	20660635006013	1100.0	48836.0 1	11884.0	7.0	219.0	5.0	306894.01485.0 Africa NGA
Hondur	a s lorth A	kr91919191919191919191919191919191919191	2206.0	23230.03	37559.0	52.0	4546.0	143.0	109292.011018.0 AmericasHND
Bahrain	Asia	170666966402	231.0	59367.0 2	2788.0	41.0	25130.0	91.0	876700.Ф13691. Œ astern \®etR terranean
Japan	Asia	1264358 394 38	1508.0	71648.0 1	12360.0	115.0	334.0	8.0	938739.07425.0 Western /Pat ific
Armenia	aAsia	2963811407877	942.0	43026.0 7	7491.0	nan	13435.0	260.0	171600. © 7898.0 Europe ARM

Total Cases vs Continents

In [6]:

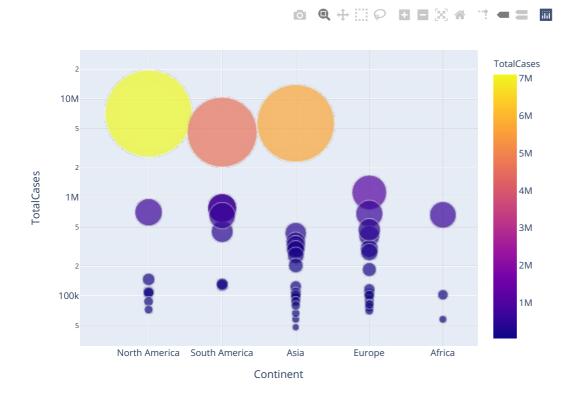
px.scatter(df.head(50), x='Continent', y='TotalCases', color='TotalCases', hover_data=['Country/Region', 'Contine
nt'], size='TotalCases', size_max=80)





In [7]:

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

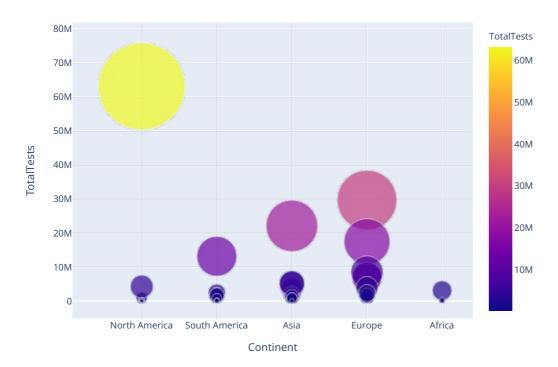


Total Tests vs Continents

In [8]:

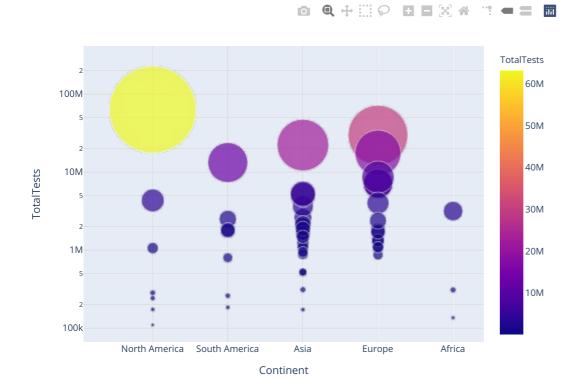
px.scatter(df.head(50), x='Continent', y='TotalTests', color='TotalTests', hover_data=['Country/Region', 'Contine
nt'], size='TotalTests', size_max=80)





In [9]:

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

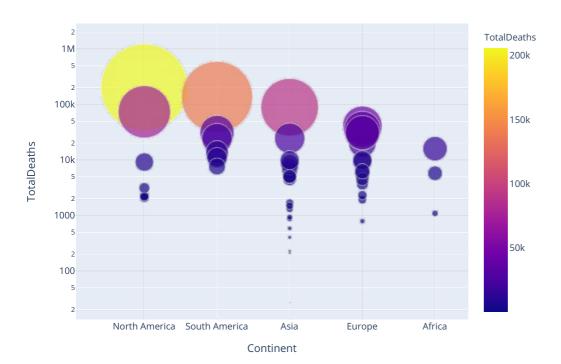


Total Deaths vs Continents

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)

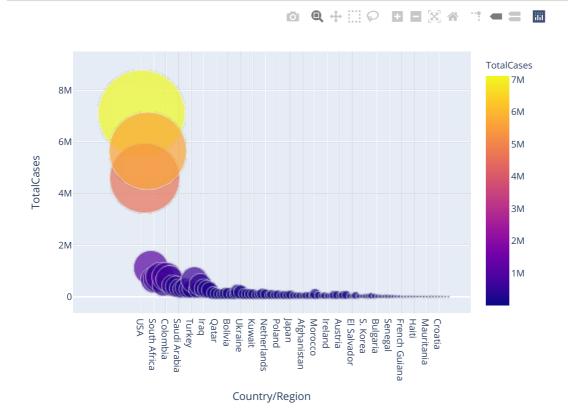




Total Cases vs Countries

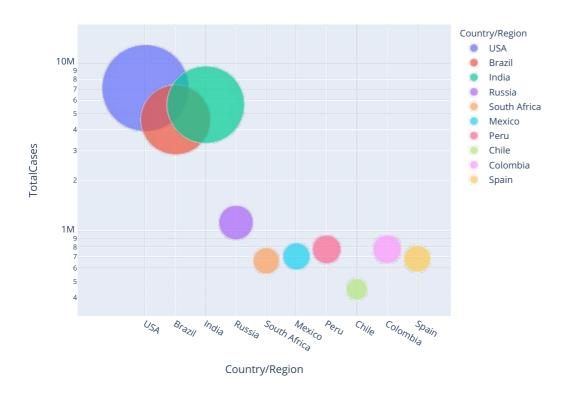
In [11]:

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



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)

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', 'Continent'], size='TotalDeaths', size_max=80)

TotalDeaths', size_max=80
```

In [17]:

```
px.scatter(df.head(30), x='TotalCases', y='TotalDeaths', color='TotalDeaths', hover_data=['Country/Region', 'Continent'], 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)