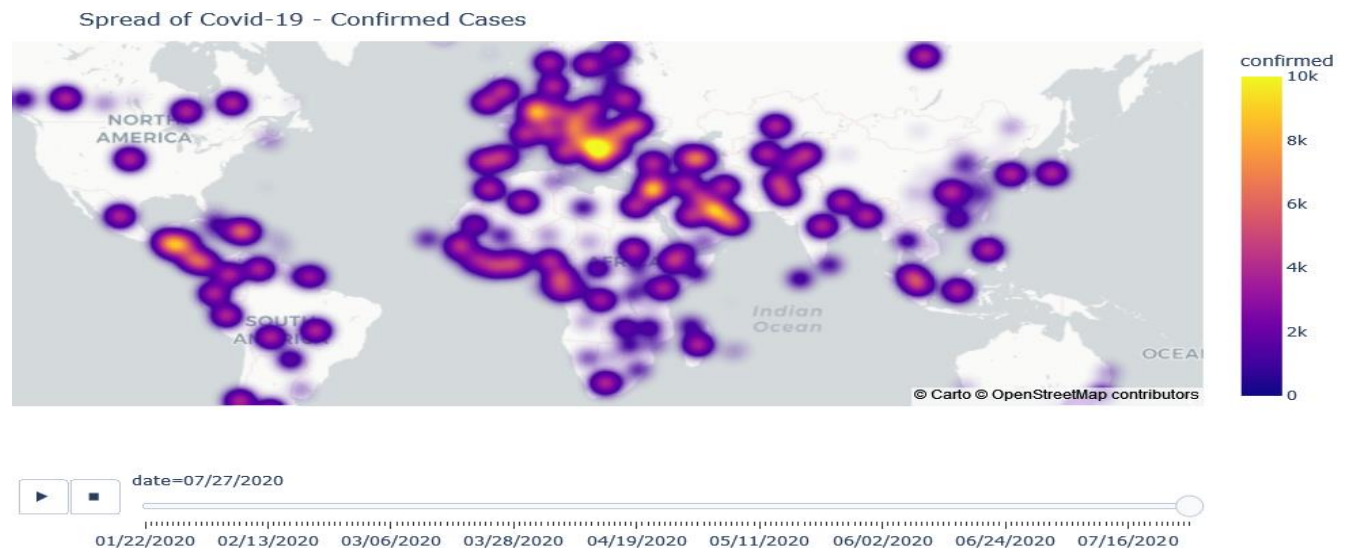


Worldwide COVID-19 Cases Status over Time :

(1) Confirmed Cases

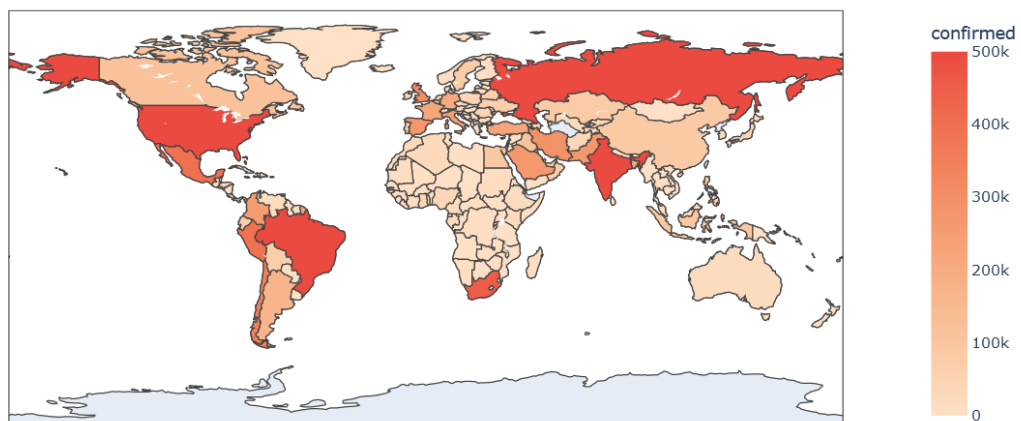
```
df=data
df['date']=pd.to_datetime(df['date'])
df['date']=df['date'].dt.strftime('%m/%d/%Y')
df=df.fillna('-')
fig=px.density_mapbox(df,lat='lat',lon='long',radius=20,zoom=1,z='confirmed',hover_data=['country','state','confirmed'],
                    mapbox_style='carto-positron',animation_frame='date',range_color=[0,10000],title='Spread of Covid-19 - Confi
fig.update_layout(margin={'r':0,'l':0,'b':0,'t':30})
fig.show()
```



(1) Confirmed Cases

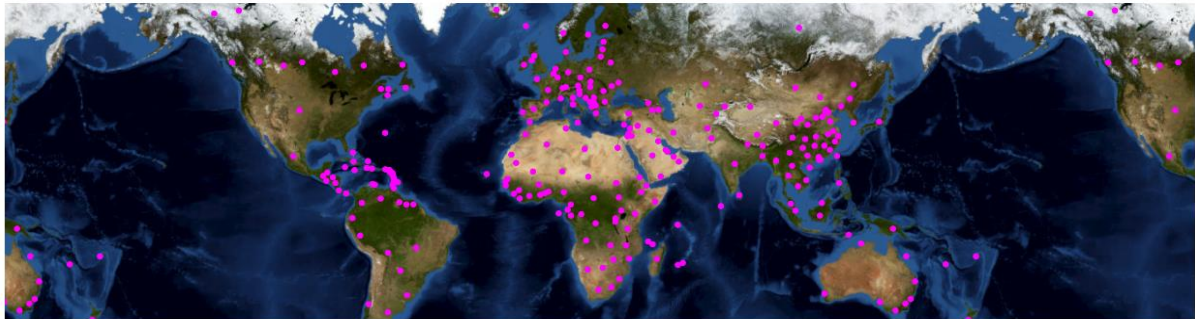
```
figure = px.choropleth(country_summary, locations="country",
                      locationmode='country names', color="confirmed",
                      hover_name="country", range_color=[1,500000],
                      color_continuous_scale="Peach",
                      title='Countries - Total Confirmed Cases')
figure.show()
```

Countries - Total Confirmed Cases



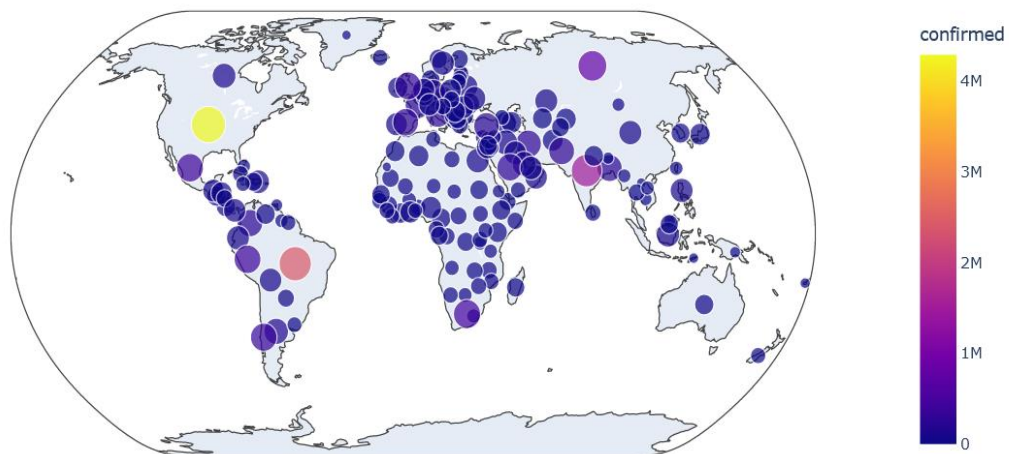
```
fig = px.scatter_mapbox(top, lat="lat", lon="long", hover_name="country", hover_data=["country","confirmed"],
                        color_discrete_sequence=["fuchsia"], zoom=0.5, height=300,title='Confirmed count of each country' )
fig.update_layout(
    mapbox_style="white-bg",
    mapbox_layers=[
        {
            "below": 'traces',
            "sourcetype": "raster",
            "source": [
                "https://basemap.nationalmap.gov/arcgis/rest/services/USGSImageryOnly/MapServer/tile/{z}/{y}/{x}"
            ]
        }
    ]
)
fig.update_layout(margin={"r":0,"t":30,"l":0,"b":0})
fig.show()
```

Confirmed count of each country



```
country_summary['size'] = country_summary['confirmed'].pow(0.2)
fig = px.scatter_geo(country_summary, locations="country",locationmode='country names', color="confirmed",
                    hover_name="country", size="size",hover_data = ['country','confirmed'],
                    projection="natural earth",title='Confirmed cases count of each country')
fig.show()
```

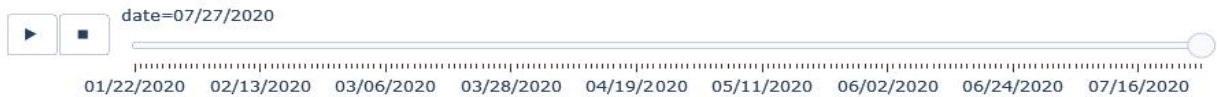
Confirmed cases count of each country



(2) Deaths Cases

```
fig=px.density_mapbox(df,lat='lat',lon='lon',radius=20,zoom=1,z='deaths',hover_data=['country','state','deaths'],
                    mapbox_style='carto-positron',animation_frame='date',range_color=[0,10000],title='Spread of Covid-19 - Death
fig.update_layout(margin={'r':0,'l':0,'b':0,'t':30})
fig.show()
```

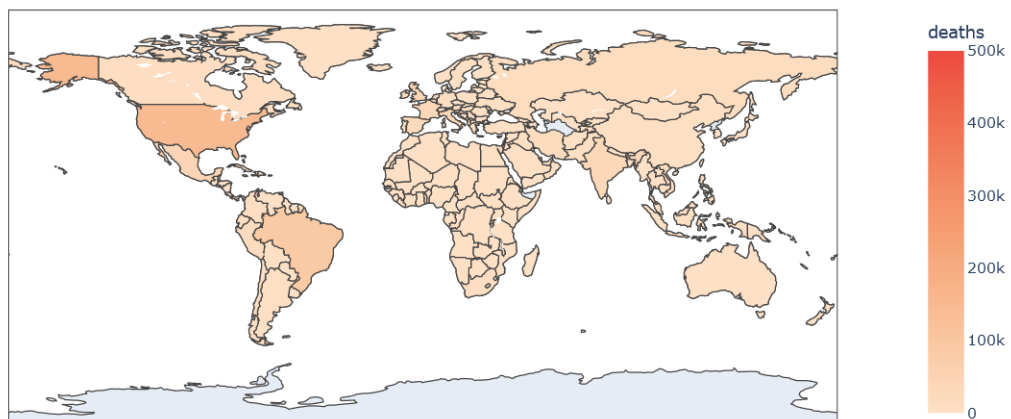
Spread of Covid-19 - Deaths Cases



(3) Death Cases

```
figure = px.choropleth(country_summary, locations="country",
                      locationmode='country names', color="deaths",
                      hover_name="country", range_color=[1,500000],
                      color_continuous_scale="peach",
                      title='Countries - Total Deaths Cases')
figure.show()
```

Countries - Total Deaths Cases



```

fig = px.scatter_mapbox(top, lat="lat", lon="lon", hover_name="country", hover_data=["country","deaths"],
                        color_discrete_sequence=["fuchsia"], zoom=0.5, height=300,title='Deaths cases count of each country' )
fig.update_layout(
    mapbox_style="white-bg",
    mapbox_layers=[
        {
            "below": 'traces',
            "sourcetype": "raster",
            "source": [
                "https://basemap.nationalmap.gov/arcgis/rest/services/USGSImageryOnly/MapServer/tile/{z}/{y}/{x}"
            ]
        }
    ]
)
fig.update_layout(margin={"r":0,"t":30,"l":0,"b":0})
fig.show()

```

Deaths cases count of each country

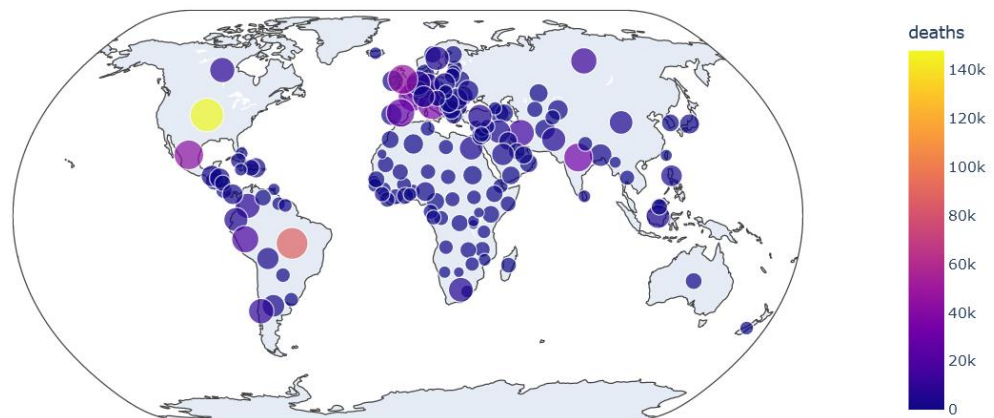


```

country_summary['size'] = country_summary['deaths'].pow(0.2)
fig = px.scatter_geo(country_summary, locations="country",locationmode='country names', color="deaths",
                    hover_name="country", size="size",hover_data = ['country','deaths'],
                    projection="natural earth",title='Deaths cases count of each country')
fig.show()

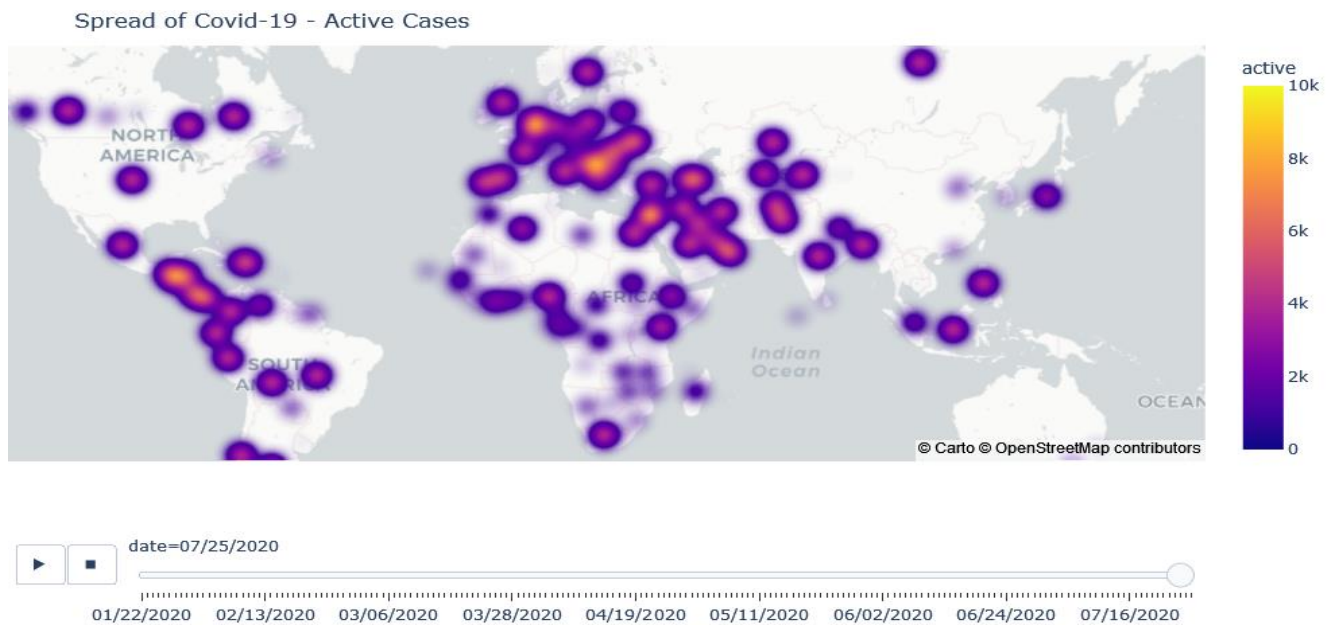
```

Deaths cases count of each country



(4) Active Cases

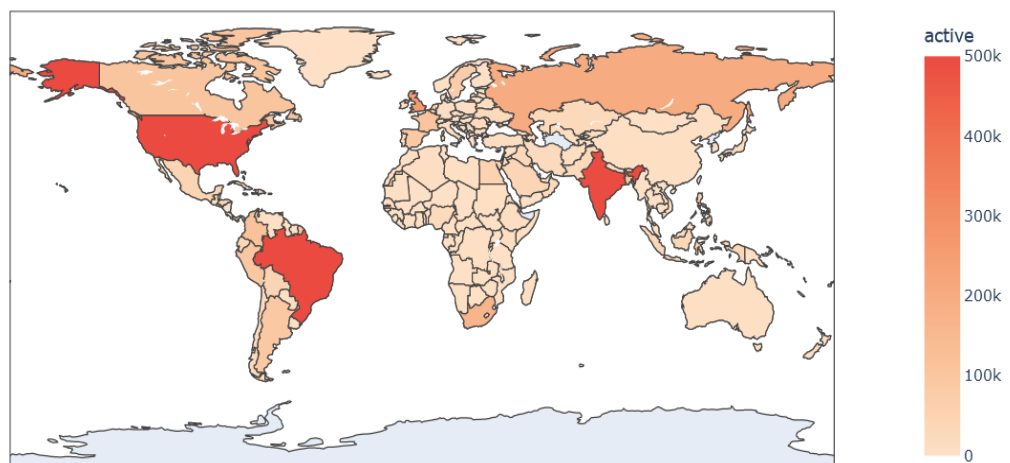
```
fig=px.density_mapbox(df,lat='lat',lon='long',radius=20,zoom=1,z='active',hover_data=['country','state','active'],
                      mapbox_style='carto-positron',animation_frame='date',range_color=[0,10000],title='Spread of Covid-19 - Active Cases')
fig.update_layout(margin={'r':0,'l':0,'b':0,'t':30})
fig.show()
```



(2) Active Cases

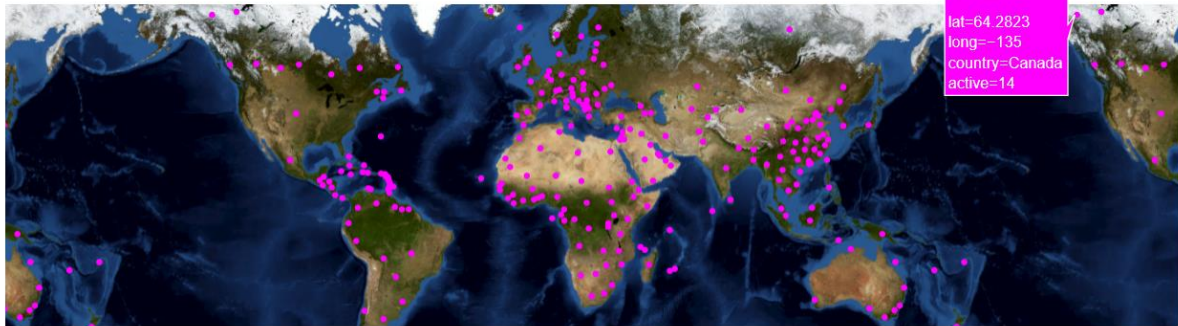
```
figure = px.choropleth(country_summary, locations="country",
                       locationmode="country names", color="active",
                       hover_name="country", range_color=[1,500000],
                       color_continuous_scale="Peach",
                       title='Countries - Total Active Cases')
figure.show()
```

Countries - Total Active Cases



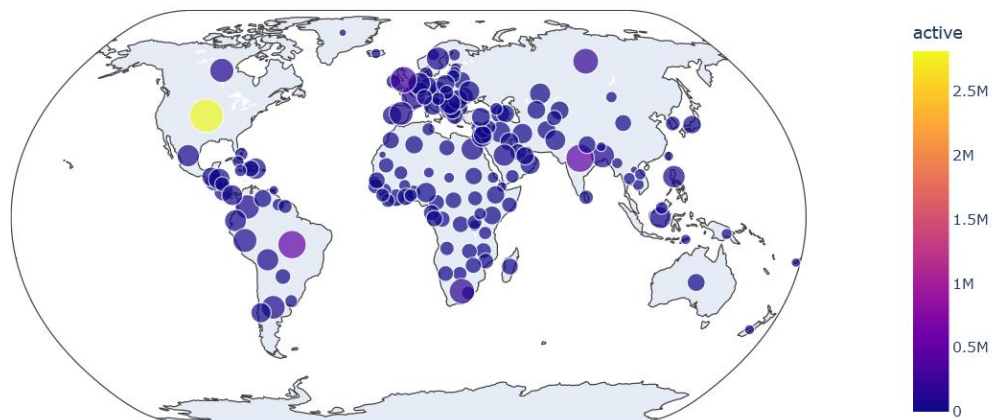
```
fig = px.scatter_mapbox(top, lat="lat", lon="lon", hover_name="country", hover_data=["country","active"],
                        color_discrete_sequence=["fuchsia"], zoom=0.5, height=300,title='Active cases count of each country' )
fig.update_layout(
    mapbox_style="white-bg",
    mapbox_layers=[
        {
            "below": 'traces',
            "sourcetype": "raster",
            "source": [
                "https://basemap.nationalmap.gov/arcgis/rest/services/USGSImageryOnly/MapServer/tile/{z}/{y}/{x}"
            ]
        }
    ]
)
fig.update_layout(margin={"r":0,"t":30,"l":0,"b":0})
fig.show()
```

Active cases count of each country



```
country_summary['size'] = country_summary['active'].pow(0.2)
fig = px.scatter_geo(country_summary, locations="country",locationmode='country names', color="active",
                    hover_name="country", size="size",hover_data = ['country','active'],
                    projection="natural earth",title='Active cases count of each country')
fig.show()
```

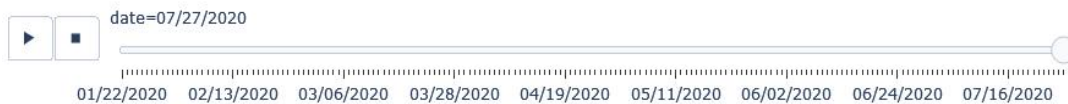
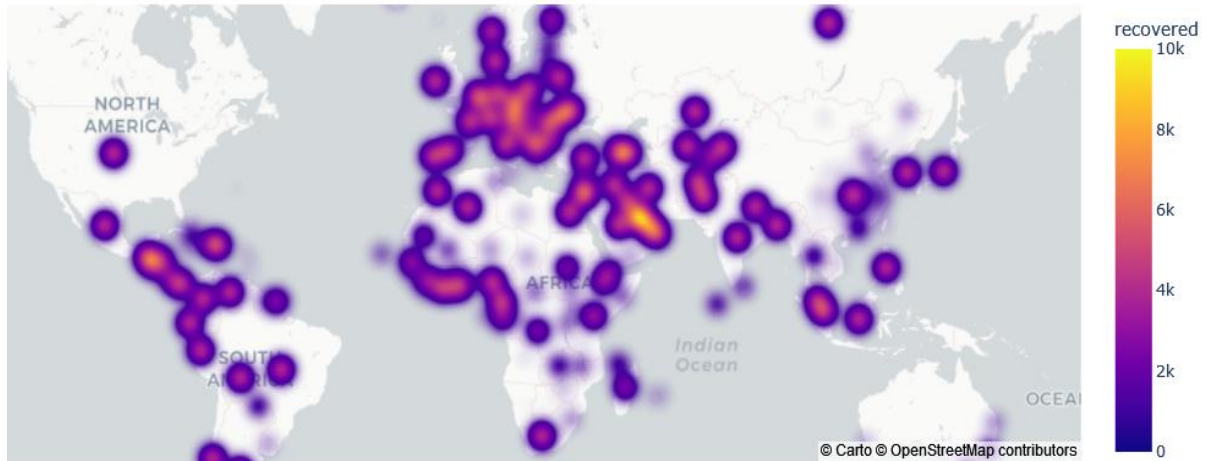
Active cases count of each country



(3) Recovered Cases

```
fig=px.density_mapbox(df,lat='lat',lon='long',radius=20,zoom=1,z='recovered',hover_data=['country','state','recovered'],
                    mapbox_style='carto-positron',animation_frame='date',range_color=[0,10000],title='Spread of Covid-19 - Reco
fig.update_layout(margin={'r':0,'l':0,'b':0,'t':30})
fig.show()
```

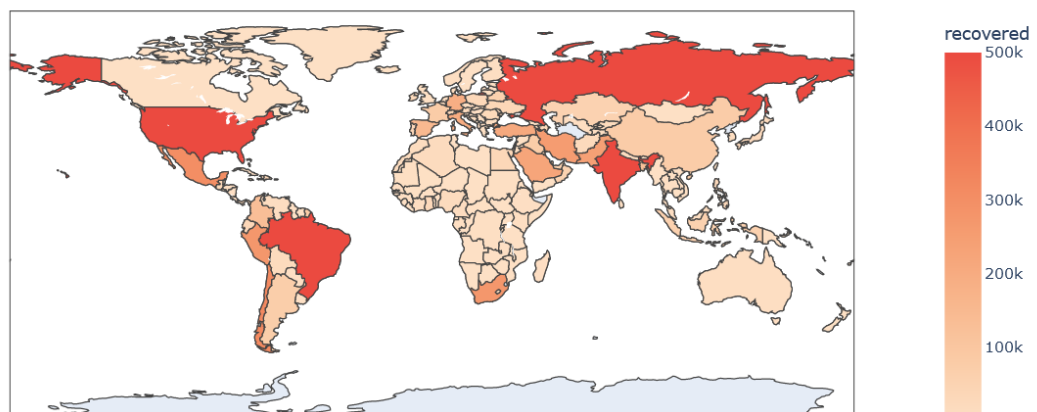
Spread of Covid-19 - Recovered Cases



(4) Recovered Cases

```
: figure = px.choropleth(country_summary, locations="country",
                        locationmode='country names', color="recovered",
                        hover_name="country", range_color=[1,500000],
                        color_continuous_scale="Peach",
                        title='Countries - Total Recovered Cases')
figure.show()
```

Countries - Total Recovered Cases

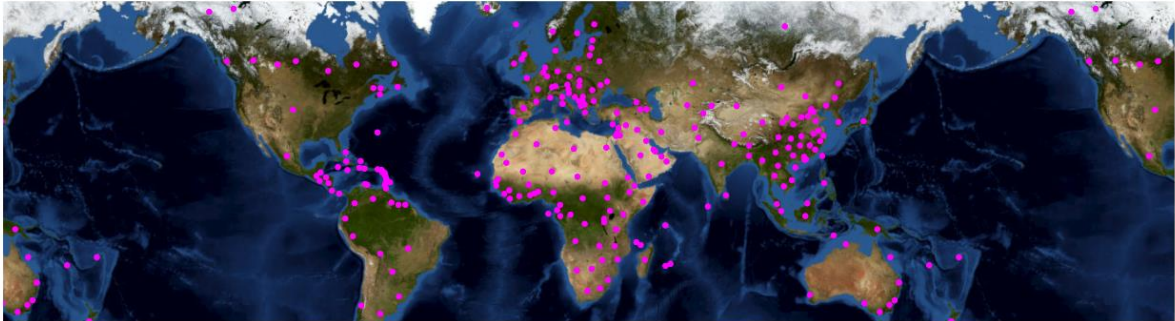


```

fig = px.scatter_mapbox(top, lat="lat", lon="lon", hover_name="country", hover_data=["country", "recovered"],
                        color_discrete_sequence=["fuchsia"], zoom=0.5, height=300, title='Recovered cases count of each country' )
fig.update_layout(
    mapbox_style="white-bg",
    mapbox_layers=[
        {
            "below": 'traces',
            "sourcetype": "raster",
            "source": [
                "https://basemap.nationalmap.gov/arcgis/rest/services/USGSImageryOnly/MapServer/tile/{z}/{y}/{x}"
            ]
        }
    ]
)
fig.update_layout(margin={"r":0,"t":30,"l":0,"b":0})
fig.show()

```

Recovered cases count of each country



```

country_summary['size'] = country_summary['recovered'].pow(0.2)
fig = px.scatter_geo(country_summary, locations="country", locationmode='country names', color="recovered",
                    hover_name="country", size="size", hover_data = ['country', 'recovered'],
                    projection="natural earth", title='Recovered cases count of each country')
fig.show()

```

Recovered cases count of each country

