

```
In [37]: print("Name : Lakshya Singh Chauhan")  
print("Build a GUI application for data visualization of word population and on v
```

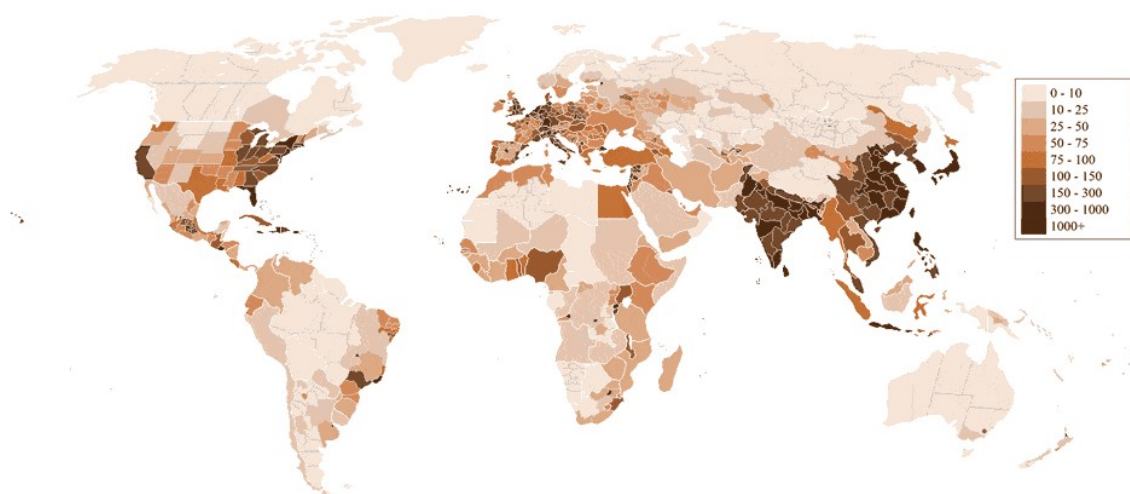
Name : Lakshya Singh Chauhan

Build a GUI application for data visualization of word population and on various other parameters of world population

Task - Build a GUI application for data visualization of word population and on various other parameters of world population

```
In [38]: #image  
#predefine code for image  
from IPython.display import Image  
Image(filename='map.jpg')  
#predefine code end
```

Out[38]:



```
In [39]: import ipywidgets as widgets
from IPython.display import display
import pandas as pd
import matplotlib.pyplot as plt

def load_data():
    data = pd.read_csv('population_by_country_2020.csv')
    return data

def plot_data(button):
    data = load_data()
    if graph_type.value == 'Line Graph':
        plt.plot(data['Yearly Change'], data['Population (2020)'])
        plt.title('World Share')
        plt.xlabel('Yearly Change')
        plt.ylabel('Population (2020)')
        plt.show()
    elif graph_type.value == 'Bar Graph':
        plt.bar(x=data['Yearly Change'], height=data['Population (2020)'])
        plt.title('World Share')
        plt.xlabel('Yearly Change')
        plt.ylabel('Population (2020)')
        plt.show()

graph_type = widgets.Dropdown(
    options=['Line Graph', 'Bar Graph'],
    value='Line Graph',
    description='Graph Type:',
)

display(graph_type)

button = widgets.Button(description="Plot Data")
button.on_click(plot_data)

display(button)
```

Graph Type:

Plot Data

