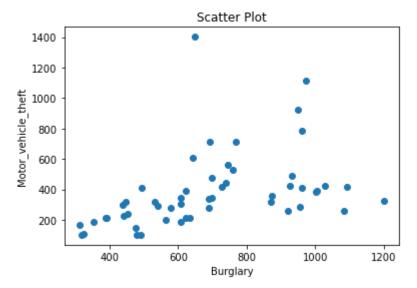
Python plots

```
In [1]:
          import pandas as pd
          import numpy as np
          import matplotlib.pyplot as plt
          import chart_studio.plotly as py
          import cufflinks as cf
          import seaborn as sns
In [2]:
          df = pd.read_csv("crimerates-by-state-2005.csv")
In [3]:
          df.head()
                state murder forcible_rape robbery aggravated_assault burglary larceny_theft motor_vehicle_
Out[3]:
              United
         0
                          5.6
                                       31.7
                                               140.7
                                                                  291.1
                                                                            726.7
                                                                                         2286.3
               States
            Alabama
                                       34.3
                                               141.4
                                                                  247.8
                                                                            953.8
                                                                                         2650.0
                          8.2
         2
               Alaska
                          4.8
                                       81.1
                                                80.9
                                                                  465.1
                                                                                         2599.1
                                                                            622.5
              Arizona
                          7.5
                                       33.8
                                               144.4
                                                                  327.4
                                                                            948.4
                                                                                         2965.2
            Arkansas
                          6.7
                                       42.9
                                                91.1
                                                                  386.8
                                                                           1084.6
                                                                                         2711.2
```

Python - Scatter plot

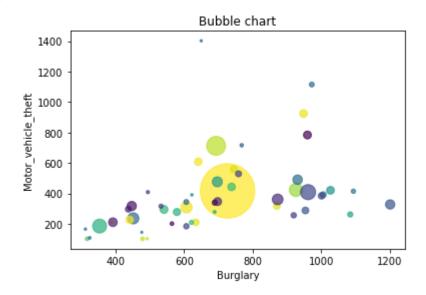
```
plt.scatter(x=df['burglary'], y=df['motor_vehicle_theft'])
plt.title('Scatter Plot')
plt.xlabel('Burglary')
plt.ylabel('Motor_vehicle_theft')
plt.show()
```



Python - bubble chart

```
In [5]:
    x = df['burglary']
    y = df['motor_vehicle_theft']
    z = df['population']/100000
    colors = np.random.rand(52)
    plt.scatter(x=x, y=y, s=z, c=colors, alpha=0.7)
    plt.xlabel("Burglary")
    plt.ylabel("Motor_vehicle_theft")
    plt.title("Bubble chart")
```

Out[5]: Text(0.5, 1.0, 'Bubble chart')



Python - Density Map

C:\Users\meena\anaconda3\lib\site-packages\seaborn\distributions.py:2619: FutureWarning:

`distplot` is a deprecated function and will be removed in a future version. Please adap t your code to use either `displot` (a figure-level function with similar flexibility) o r `kdeplot` (an axes-level function for kernel density plots).

Out[6]: Text(0.5, 1.0, 'Density Plot')

