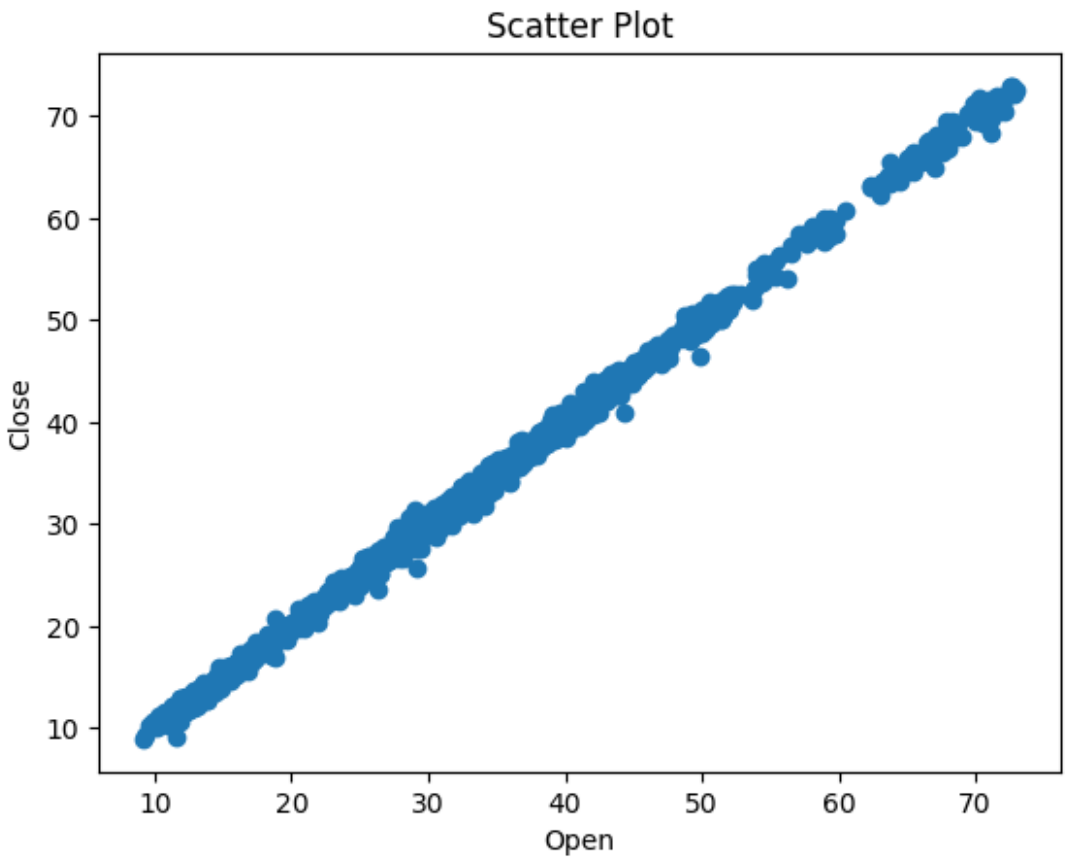
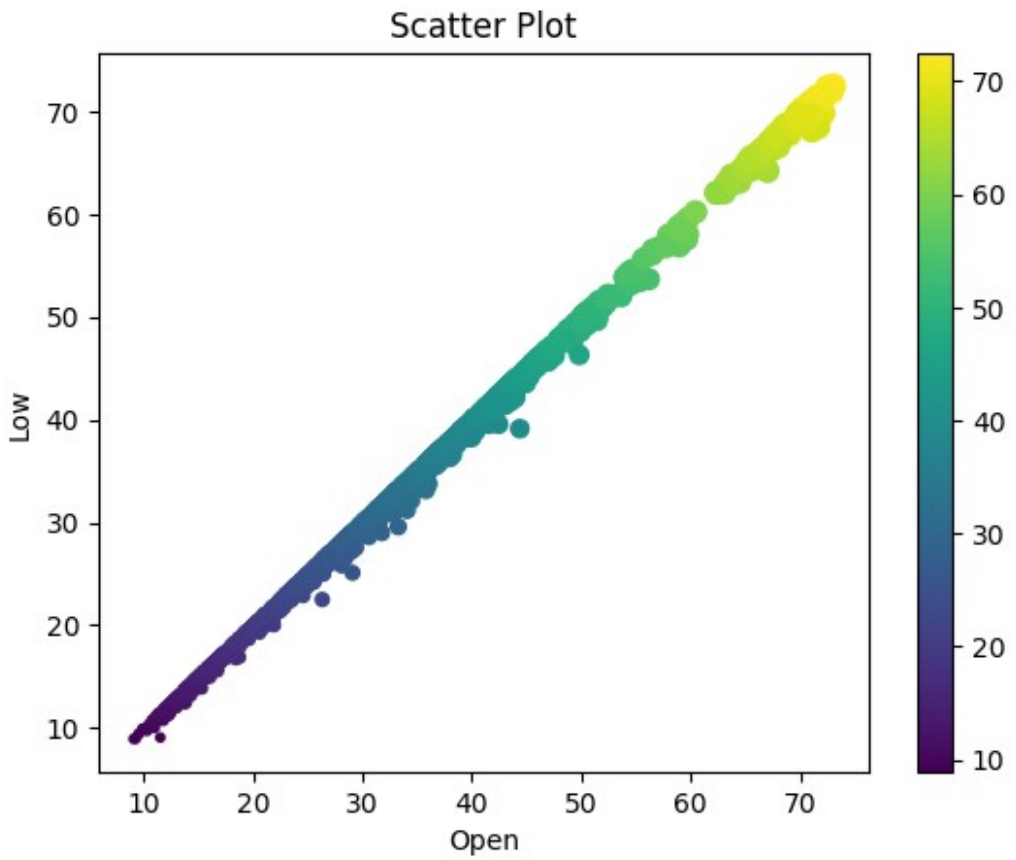
```
import pandas as pd


# reading the database
data = pd.read_csv("stock_data.csv")

# printing the top 10 rows
display(data.head(10))
```

	Unnamed: 0	Date	Open	High	Low	Close	Volume	Name
0	NaN	1/3/2006	39.69	41.22	38.79	40.91	24232729	AABA
1	NaN	1/4/2006	41.22	41.90	40.77	40.97	20553479	AABA
2	NaN	1/5/2006	40.93	41.73	40.85	41.53	12829610	AABA
3	NaN	1/6/2006	42.88	43.57	42.80	43.21	29422828	AABA
4	NaN	1/9/2006	43.10	43.66	42.82	43.42	16268338	AABA
5	NaN	1/10/2006	42.96	43.34	42.34	42.98	16288580	AABA
6	NaN	1/11/2006	42.19	42.31	41.72	41.87	26192772	AABA
7	NaN	1/12/2006	41.92	41.99	40.76	40.89	18921686	AABA
8	NaN	1/13/2006	41.00	41.08	39.62	39.90	30966185	AABA
9	NaN	1/17/2006	39.09	40.39	38.96	40.11	42429911	AABA

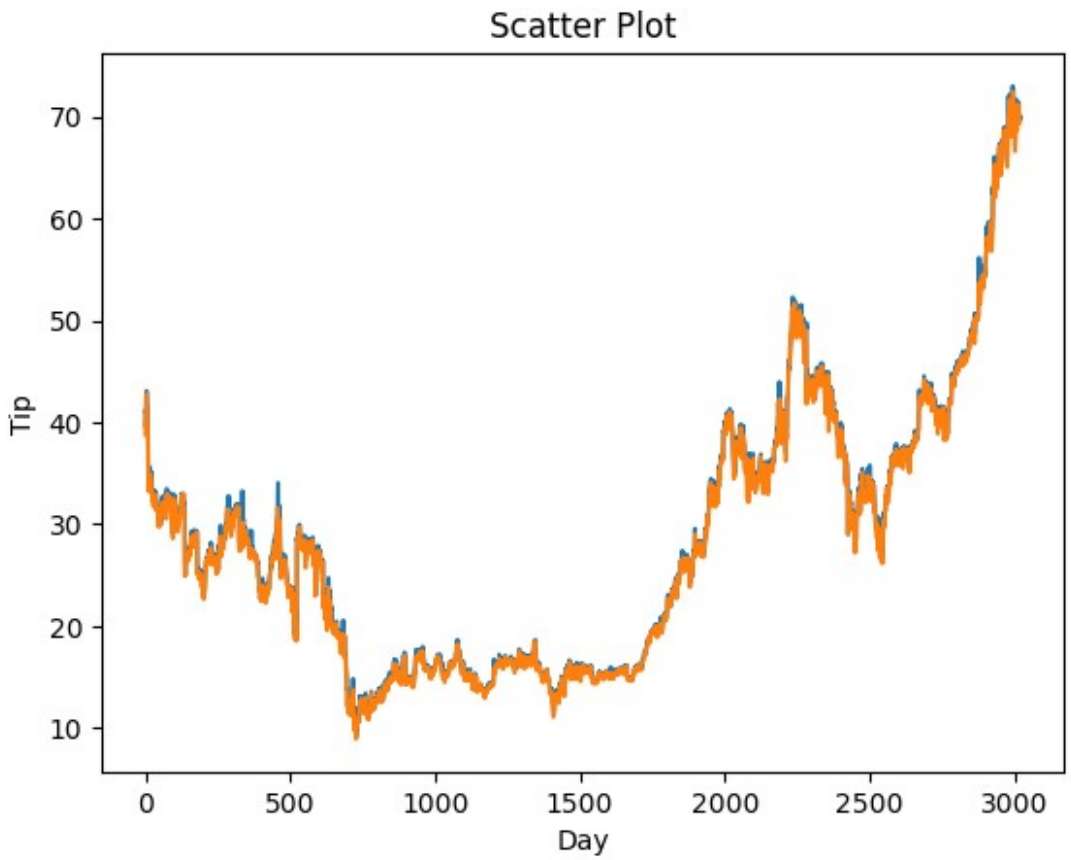
```
import pandas as pd
import matplotlib.pyplot as plt


# reading the database
data = pd.read_csv("stock_data.csv")

# Scatter plot with day against tip
plt.scatter(data['Open'], data['Close'])

# Adding Title to the Plot
plt.title("Scatter Plot")

# Setting the X and Y labels
plt.xlabel('Open')
plt.ylabel('Close')

plt.show()
```



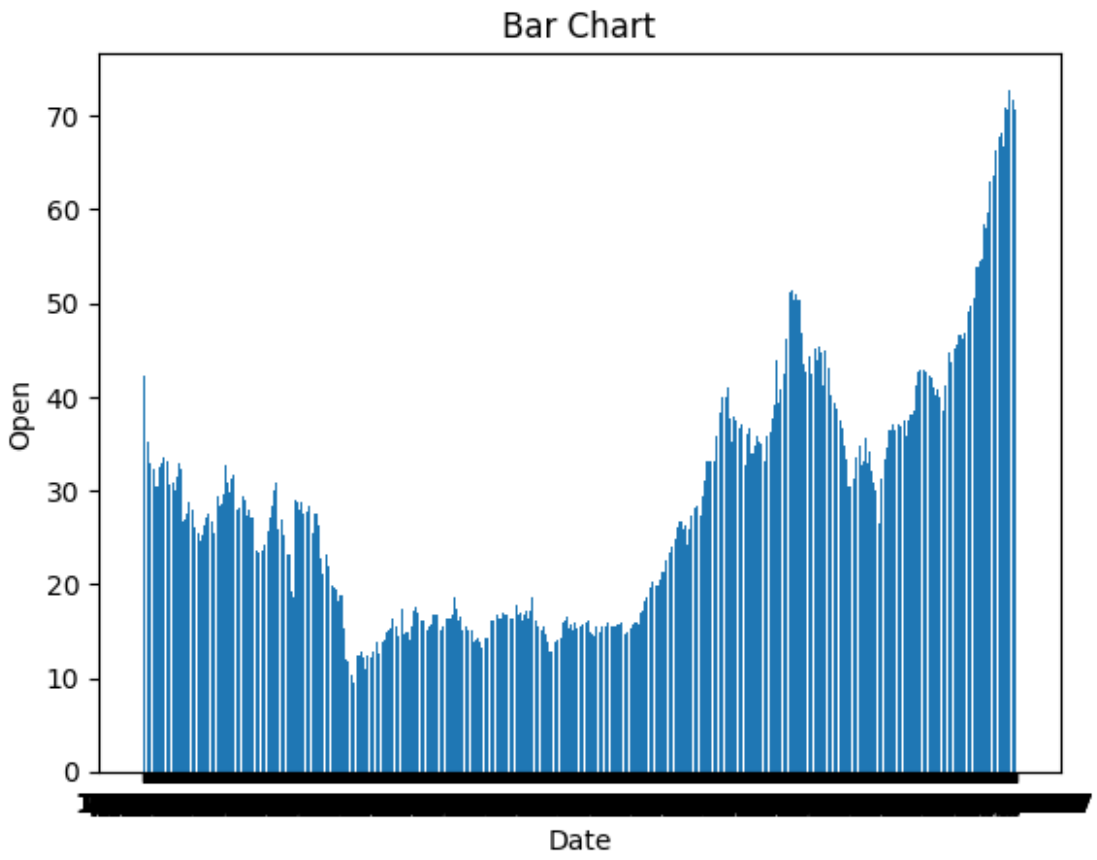

```
import pandas as pd
import matplotlib.pyplot as plt


# reading the database
data = pd.read_csv("stock_data.csv")

# Scatter plot with day against tip
plt.scatter(data['Open'], data['Low'], c=data['Low'],
s=data['Close'])

# Adding Title to the Plot
plt.title("Scatter Plot")

# Setting the X and Y labels
plt.xlabel('Open')
plt.ylabel('Low')

plt.colorbar()

plt.show()
```



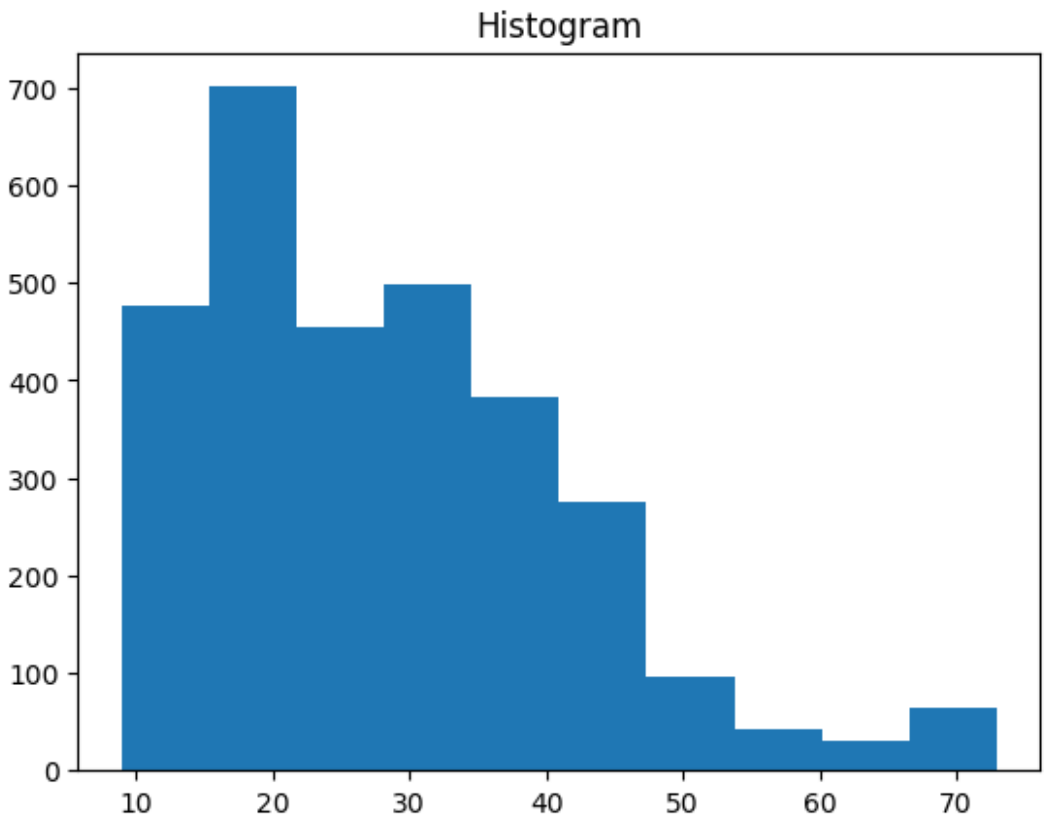

```
import pandas as pd
import matplotlib.pyplot as plt


# reading the database
data = pd.read_csv("stock_data.csv")

# Scatter plot with day against tip
plt.plot(data['Open'])
plt.plot(data['Low'])

# Adding Title to the Plot
plt.title("Scatter Plot")

# Setting the X and Y labels
plt.xlabel('Day')
plt.ylabel('Tip')

plt.show()
```



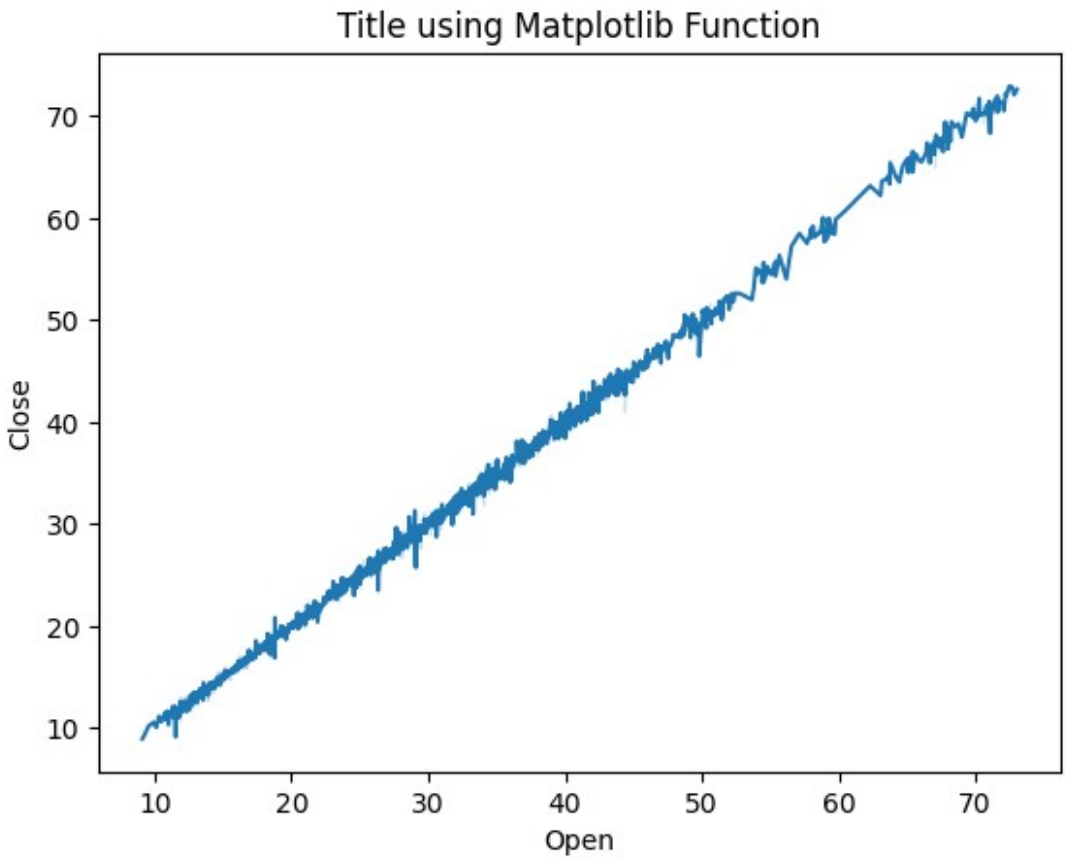

```
import pandas as pd
import matplotlib.pyplot as plt


# reading the database
data = pd.read_csv("stock_data.csv")

# Bar chart with day against tip
plt.bar(data['Date'], data['Open'])

plt.title("Bar Chart")

# Setting the X and Y labels
plt.xlabel('Date')
plt.ylabel('Open')

# Adding the legends
plt.show()
```




```
import pandas as pd
import matplotlib.pyplot as plt


# reading the database
data = pd.read_csv("stock_data.csv")

# histogram of total_bills
plt.hist(data['Close'])

plt.title("Histogram")

# Adding the legends
plt.show()
```

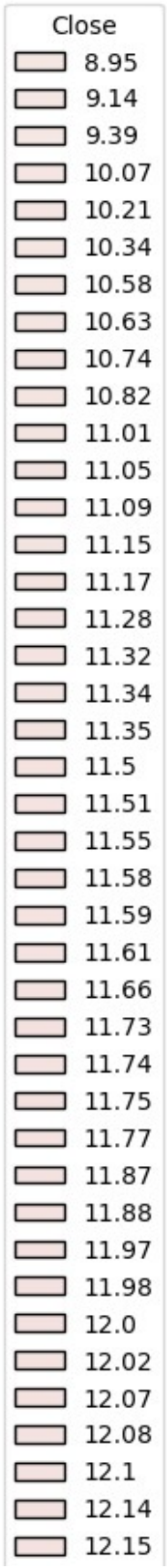



```
%pip install seaborn



import seaborn as sns

import matplotlib.pyplot as plt
import pandas as pd

# importing packages
import seaborn as sns
import matplotlib.pyplot as plt
import pandas as pd


# reading the database
data = pd.read_csv("stock_data.csv")

# draw lineplot
sns.lineplot(x="Open", y="Close", data=data)

# setting the title using Matplotlib
plt.title('Title using Matplotlib Function')

plt.show()
```




```
# reading the database
data = pd.read_csv("stock_data.csv")

sns.histplot(x='Open', data=data, kde=True, hue='Close')

plt.show()
```

```
/lib/python3.11/site-packages/IPython/core/pylabtools.py:152:
UserWarning: Creating legend with loc="best" can be slow with large
amounts of data.
  fig.canvas.print_figure(bytes_io, **kw)
```


Close
8.95
9.14
9.39
10.07
10.21
10.34
10.58
10.63
10.74
10.82
11.01
11.05
11.09
11.15
11.17
11.28
11.32
11.34
11.35
11.5
11.51
11.55
11.58
11.59
11.61
11.66
11.73
11.74
11.75
11.77
11.87
11.88
11.97
11.98
12.0
12.02
12.07
12.08
12.1
12.14
12.15

```
%pip install bokeh
from bokeh.plotting import figure, output_file, show
import pandas as pd
```

```
---------------------------------------------------------------------------
-----
ModuleNotFoundError                       Traceback (most recent call
last)
Cell In[42], line 2
      1 await __import__("piplite").install(**{'requirements':
['bokeh']})
----> 2 from bokeh.plotting import figure, output_file, show
      3 import pandas as pd

File /lib/python3.11/site-packages/bokeh/plotting/__init__.py:56
     26 __all__ = (
     27     'column',
     28     'Column',
   (...)
     45     'show',
     46 )
     48
#-----------------------------------------------------------------------
--------
     49 # Private API
     50
#-----------------------------------------------------------------------
--------
   (...)
     53 # General API
     54
#-----------------------------------------------------------------------
--------
---> 56 from ._figure import figure
     57 from ._figure import markers
     58 from ._figure import DEFAULT_TOOLS

File /lib/python3.11/site-packages/bokeh/plotting/_figure.py:47
     28 from ..core.enums import HorizontalLocation, MarkerType,
VerticalLocation
     29 from ..core.properties import (
     30     Auto,
     31     Datetime,
   (...)
     45     Tuple,
     46 )
---> 47 from ..models import (
     48     ColumnDataSource,
     49     CoordinateMapping,
     50     DataRange1d,
```

```
     51     GraphRenderer,
     52     Plot,
     53     Range,
     54     Scale,
     55     Tool,
     56 )
     57 from ..models.dom import Template
     58 from ..models.tools import (
     59     Drag,
     60     GestureTool,
   (...)
     63     Tap,
     64 )

File /lib/python3.11/site-packages/bokeh/models/__init__.py:33
     27
#-----------------------------------------------------------------------
--------
     28 # Imports
     29
#-----------------------------------------------------------------------
--------
     30
     31 # Bokeh imports
     32 from ..model import Model
---> 33 from . import (
     34     annotations,
     35     axes,
     36     callbacks,
     37     canvas,
     38     coordinates,
     39     css,
     40     expressions,
     41     filters,
     42     formatters,
     43     glyphs,
     44     graphs,
     45     grids,
     46     labeling,
     47     layouts,
     48     map_plots,
     49     mappers,
     50     plots,
     51     ranges,
     52     renderers,
     53     scales,
     54     selections,
     55     selectors,
     56     sources,
```

```
     57     text,
     58     textures,
     59     tickers,
     60     tiles,
     61     tools,
     62     transforms,
     63     ui,
     64     widgets,
     65 )
     66 from .annotations import *
     67 from .axes import *

File /lib/python3.11/site-packages/bokeh/models/map_plots.py:45
     43 from ..model import Model
     44 from ..models.ranges import Range1d
---> 45 from .plots import Plot
     47
#-----------------------------------------------------------------------------
--------
     48 # Globals and constants
     49
#-----------------------------------------------------------------------------
--------
     51 __all__ = (
     52     'GMapOptions',
     53     'GMapPlot',
     54     'MapOptions',
     55     'MapPlot',
     56 )

File /lib/python3.11/site-packages/bokeh/models/plots.py:33
     25 from typing import (
     26     Any,
     27     Generator,
     28     Literal,
     29     overload,
     30 )
     32 # External imports
---> 33 import xyzservices
     35 # Bokeh imports
     36 from ..core.enums import (
     37     Location,
     38     OutputBackend,
   (...)
     41     ResetPolicy,
     42 )

ModuleNotFoundError: No module named 'xyzservices'
```

```
# importing the modules
import boken
from bokeh.plotting import figure, output_file, show
import pandas as pd


# instantiating the figure object
graph = figure(title = "Bokeh Bar Chart")

# reading the database
data = pd.read_csv("stock.csv")

# Count of each unique value of
# tip column
df = data['Open'].value_counts()

# plotting the graph
graph.line(df, data['Open'])

# displaying the model
show(graph)
```

```
---------------------------------------------------------------------------
ModuleNotFoundError                       Traceback (most recent call last)
Cell In[41], line 2
      1 # importing the modules
----> 2 import boken
      3 from bokeh.plotting import figure, output_file, show
      4 import pandas as pd

ModuleNotFoundError: No module named 'boken'
```