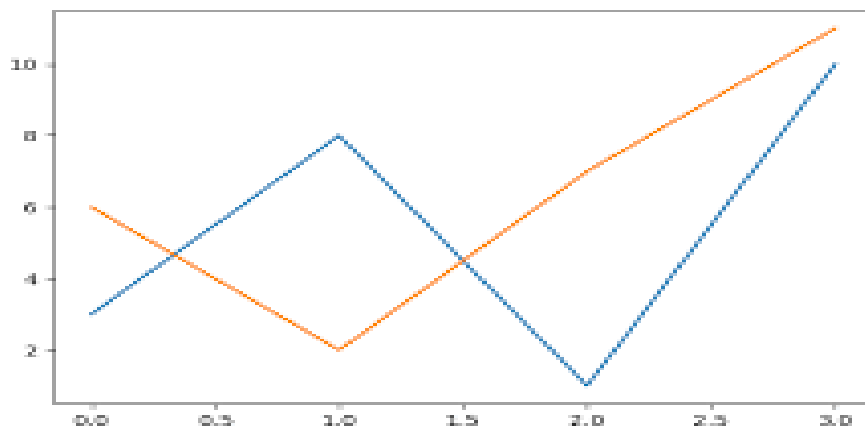


Types of graphs in Matplotlib

Matplotlib, a popular Python library for data visualization, supports various types of graphs. Here are some important types:

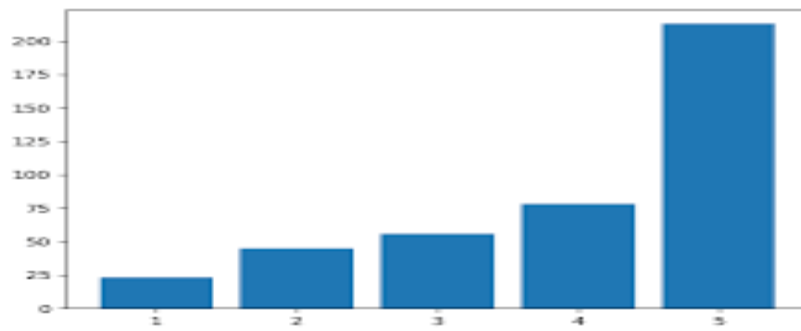
1. Line plot:

```
python  
import matplotlib.pyplot as plt  
plt.plot(x, y)
```



2. Bar plot:

```
python  
import matplotlib.pyplot as plt  
plt.bar(x, height)
```

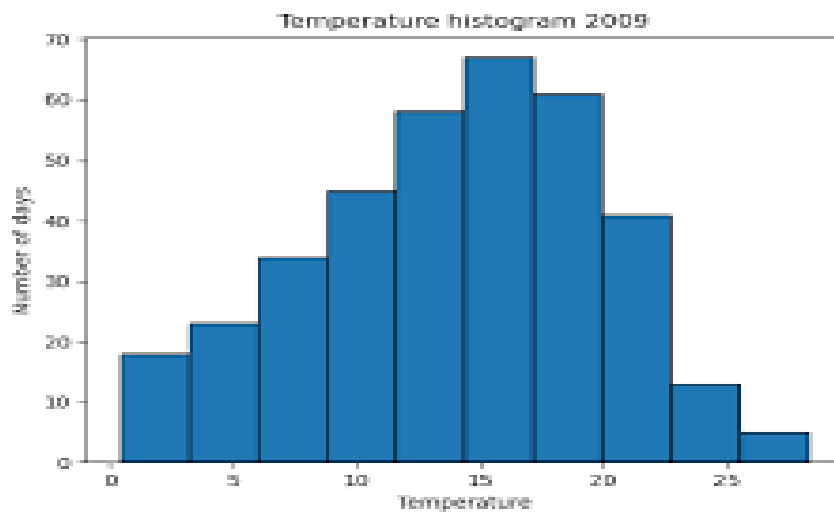


3. Histogram:

python

import matplotlib.pyplot as plt

plt.hist(data, bins)

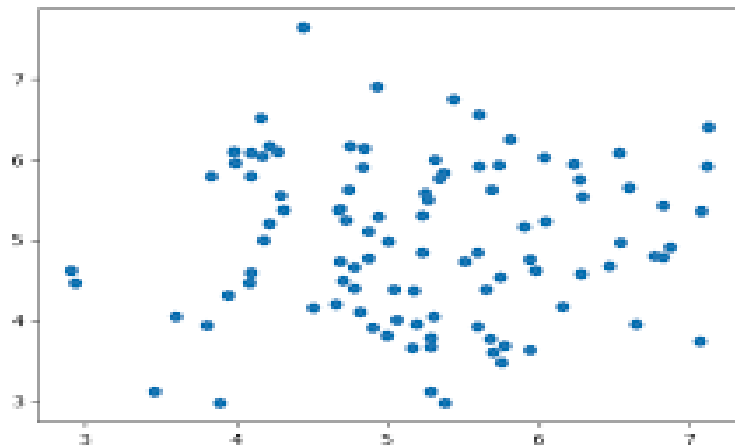


4. Scatter plot:

python

import matplotlib.pyplot as plt

plt.scatter(x, y)

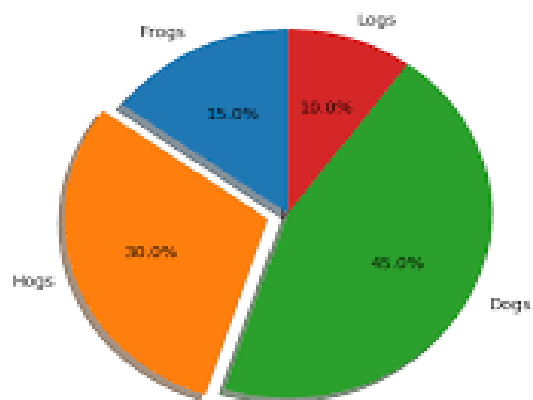


5. Pie chart:

python

import matplotlib.pyplot as plt

plt.pie(values, labels)

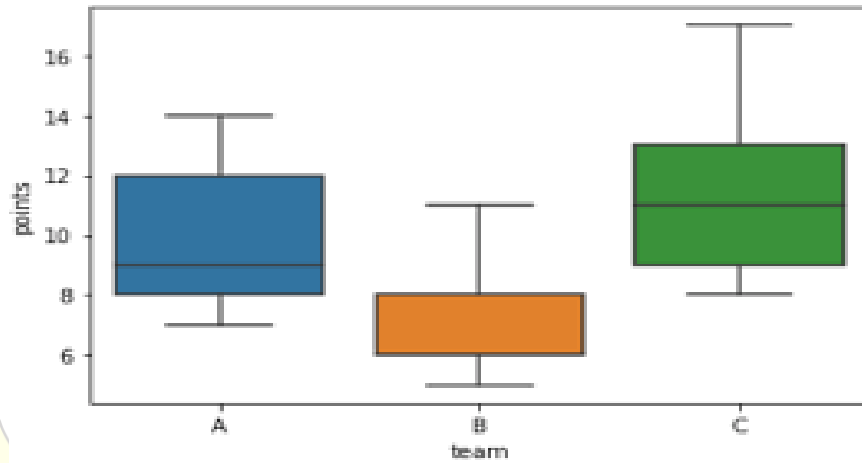


6. Box plot:

python

import matplotlib.pyplot as plt

plt.boxplot(data)

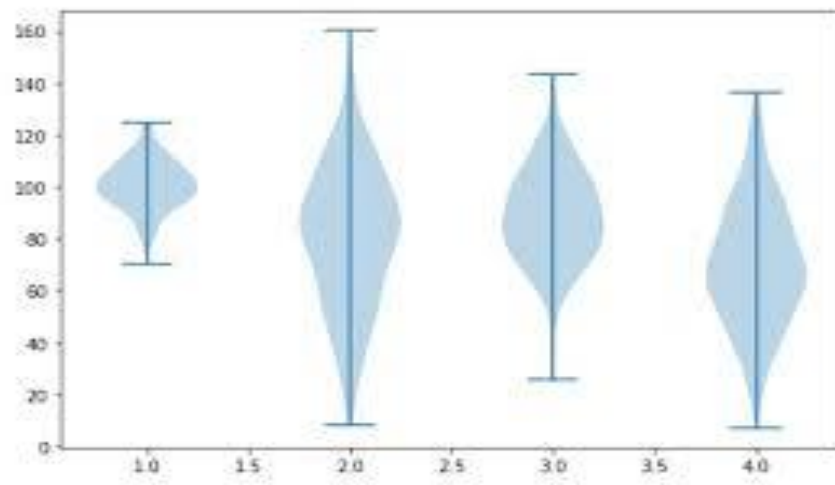


7. Violin plot:

python

`import matplotlib.pyplot as plt`

`plt.violinplot(dataset, positions)`

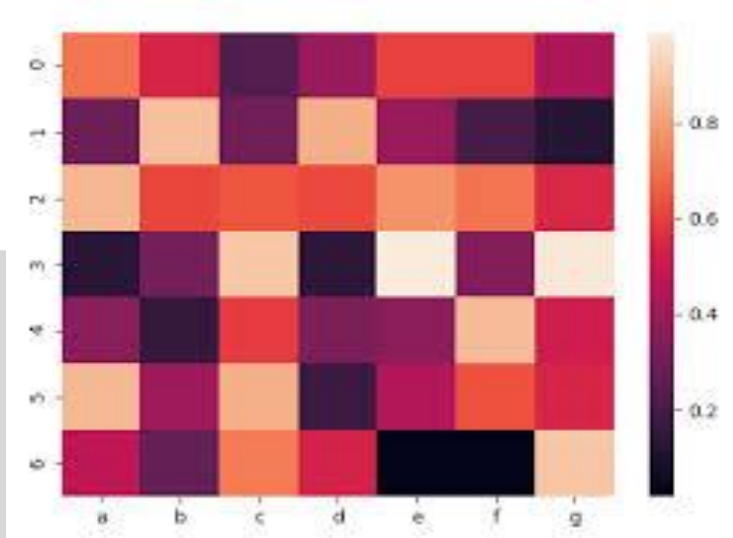


8. Heatmap:

```
python
```

```
import matplotlib.pyplot as plt
```

```
plt.imshow(data, cmap)
```



9. 3D plot:

```
python
```

```
from mpl_toolkits.mplot3d import Axes3D
```

```
import matplotlib.pyplot as plt
```

```
fig = plt.figure()
```

```
ax = fig.add_subplot(111, projection='3d')
```

```
ax.scatter(x, y, z)
```

