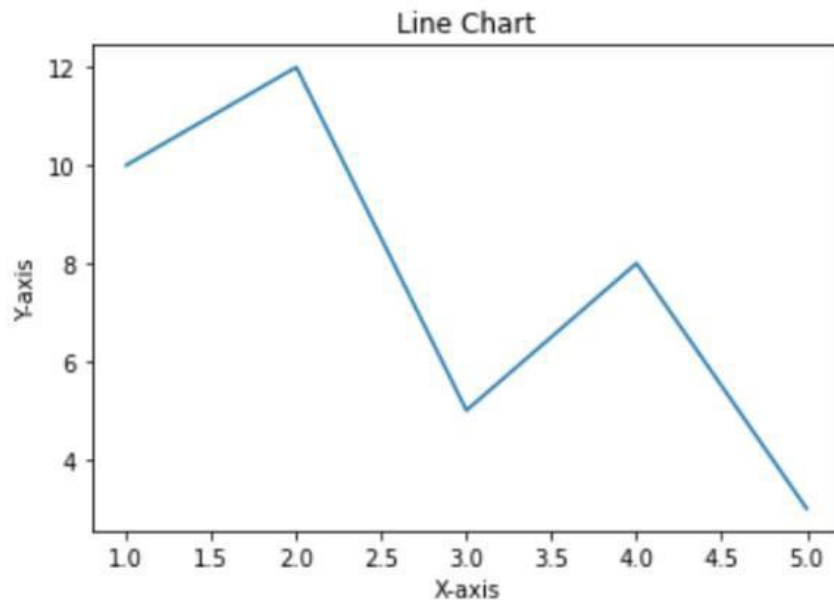# 10 different data charts using Python

1. Line Chart:

```python
import matplotlib.pyplot as plt

x = [1, 2, 3, 4, 5]
y = [10, 12, 5, 8, 3]

plt.plot(x, y)
plt.title('Line Chart')
plt.xlabel('X-axis')
plt.ylabel('Y-axis')
plt.show()
#clcoding.com
```
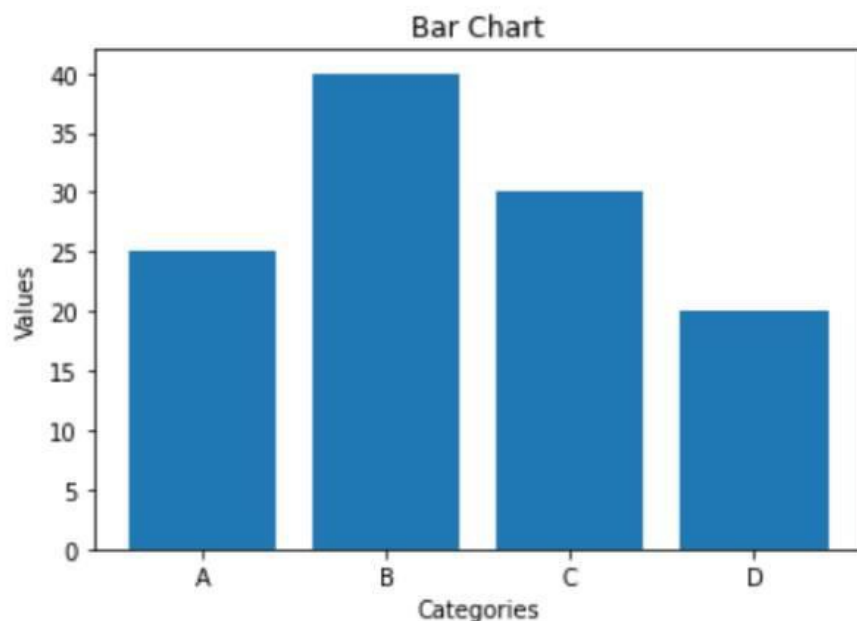

Line Chart

Learn More

10 different data charts using Python

2. Bar Chart:

```python
import matplotlib.pyplot as plt

categories = ['A', 'B', 'C', 'D']
values = [25, 40, 30, 20]

plt.bar(categories, values)
plt.title('Bar Chart')
plt.xlabel('Categories')
plt.ylabel('Values')
plt.show()
#clcoding.com
```


Bar Chart

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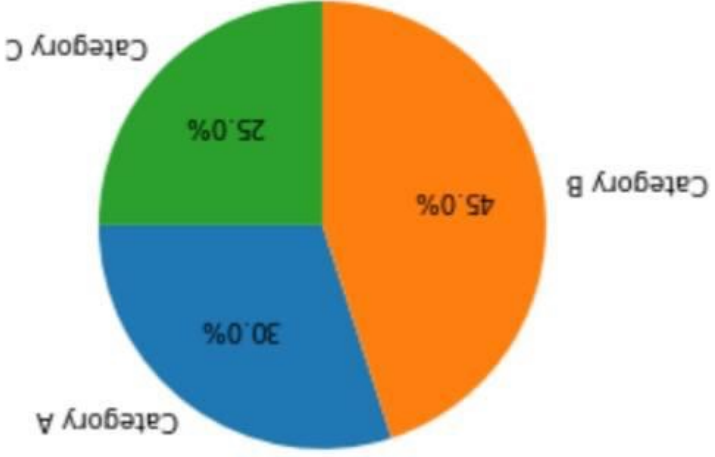# 10 different data charts using Python

3. Pie Chart:

```python
import matplotlib.pyplot as plt

labels = ['Category A', 'Category B', 'Category C']
sizes = [30, 45, 25]

plt.pie(sizes, labels=labels, autopct='%1.1f%%')
plt.title('Pie Chart')
plt.show()
#clcoding.com
```

Pie Chart

Category A

Category C
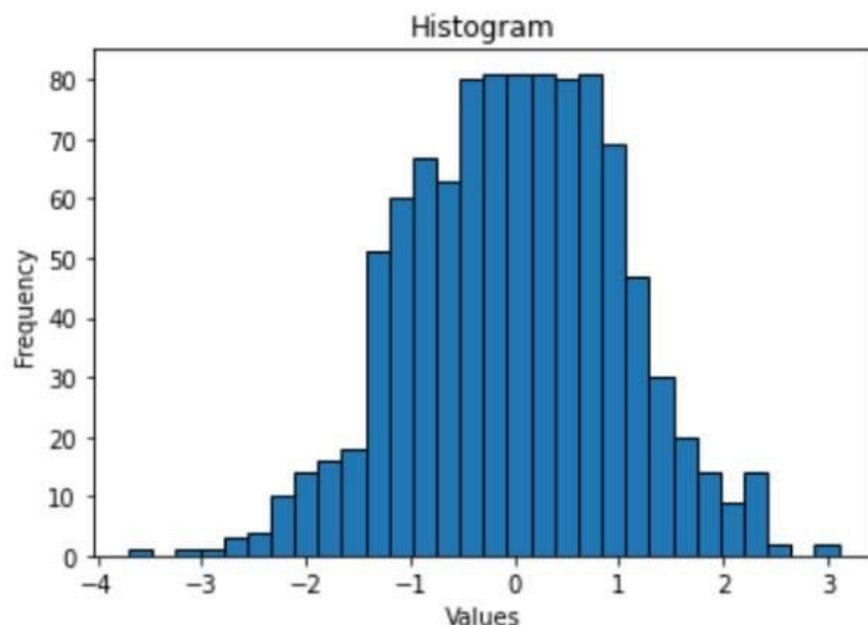
25.0%

30.0%

45.0%

Category B

10 different data charts using Python

4. Histogram:

```python
import matplotlib.pyplot as plt
import numpy as np

data = np.random.randn(1000)

plt.hist(data, bins=30, edgecolor='black')
plt.title('Histogram')
plt.xlabel('Values')
plt.ylabel('Frequency')
plt.show()
#clcoding.com
```
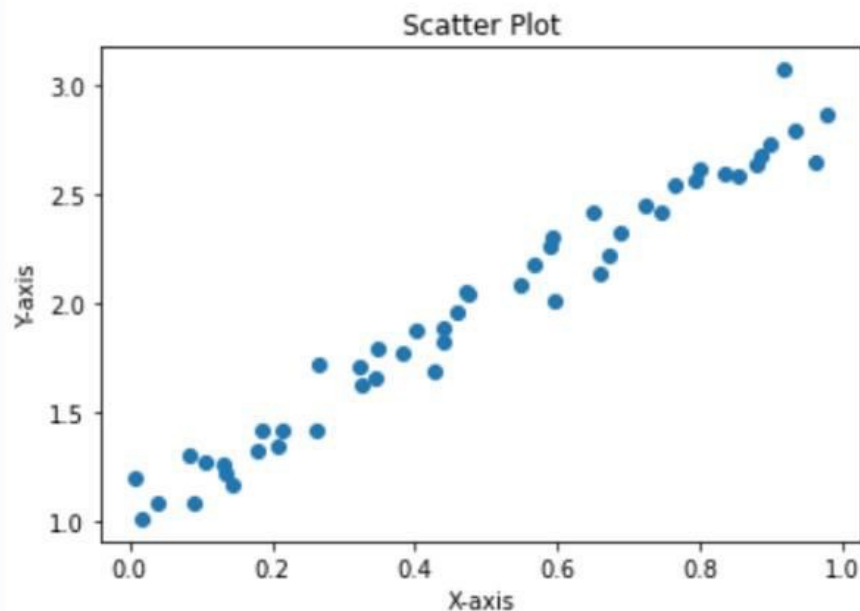

Histogram

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10 different data charts using Python

5. Scatter Plot:

```python
import matplotlib.pyplot as plt
import numpy as np

x = np.random.rand(50)
y = 2 * x + 1 + 0.1 * np.random.randn(50)

plt.scatter(x, y)
plt.title('Scatter Plot')
plt.xlabel('X-axis')
plt.ylabel('Y-axis')
plt.show()
#clcoding.com
```
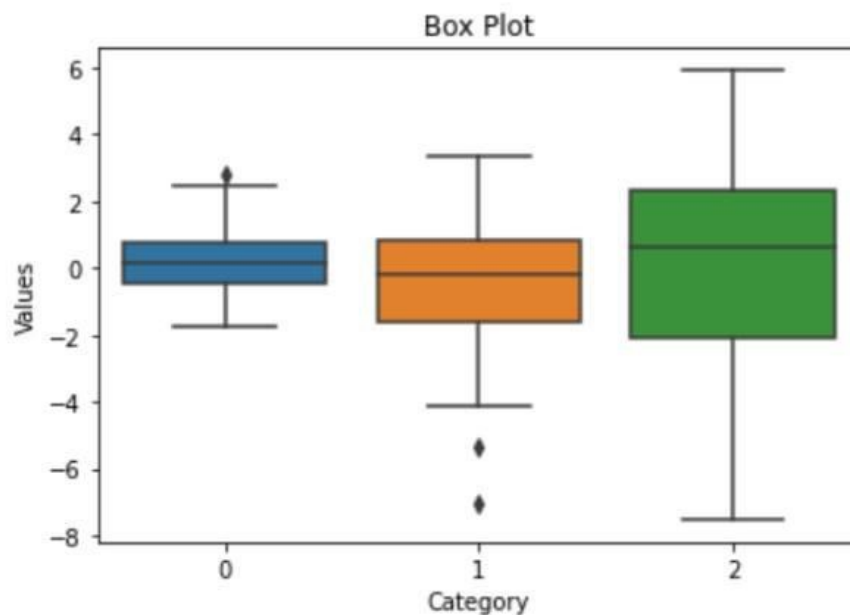

Scatter Plot

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10 different data charts using Python

6. Box Plot:

```python
import seaborn as sns
import numpy as np

data = [np.random.normal(0, std, 100) for std in range(1, 4)]

sns.boxplot(data=data)
plt.title('Box Plot')
plt.xlabel('Category')
plt.ylabel('Values')
plt.show()
#clcoding.com
```
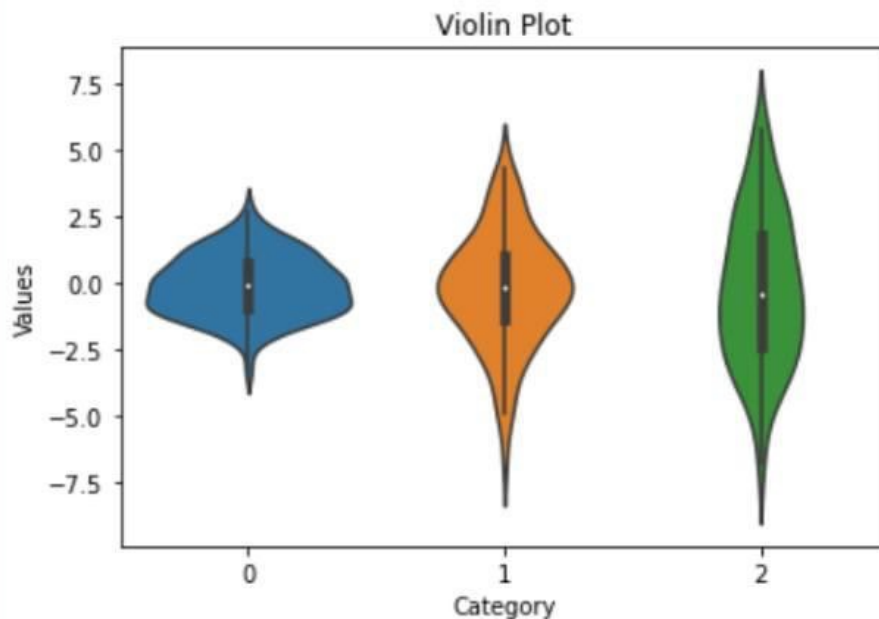
10 different data charts using Python

7. Violin Plot:

```python
import seaborn as sns
import numpy as np

data = [np.random.normal(0, std, 100) for std in range(1, 4)]

sns.violinplot(data=data)
plt.title('Violin Plot')
plt.xlabel('Category')
plt.ylabel('Values')
plt.show()
#clcoding.com
```
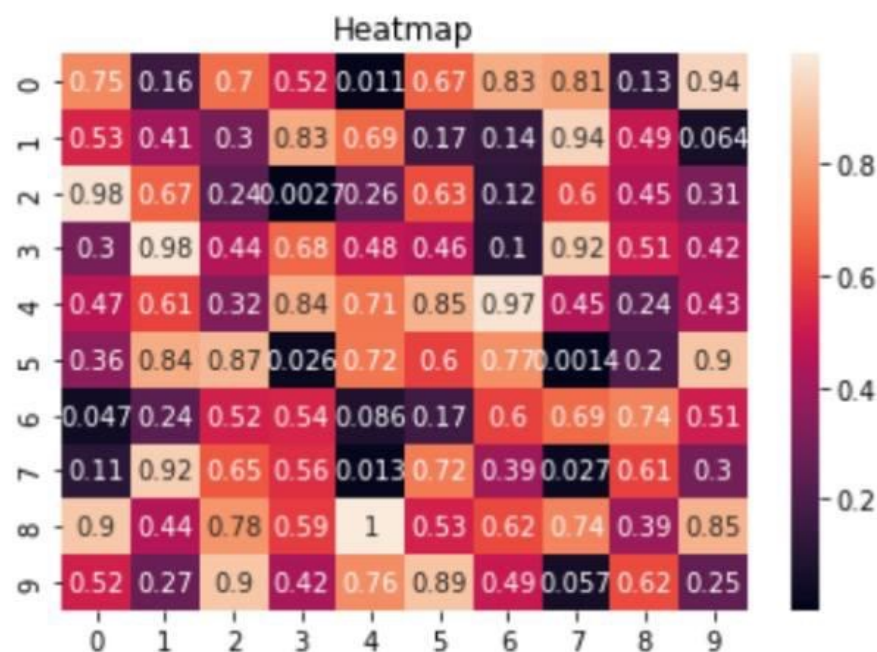

Violin Plot

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10 different data charts using Python

8. Heatmap:

```python
import seaborn as sns
import numpy as np

data = np.random.rand(10, 10)

sns.heatmap(data, annot=True)
plt.title('Heatmap')
plt.show()
#clcoding.com
```
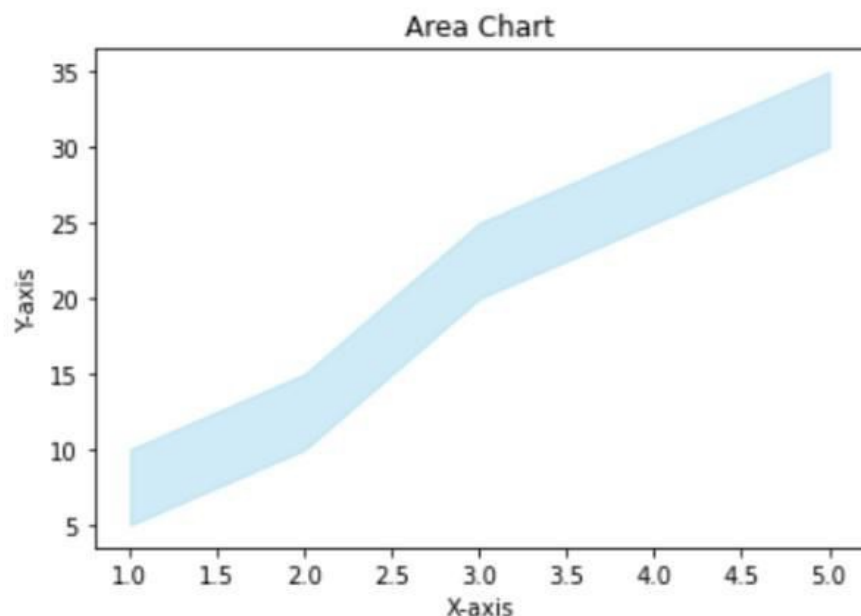

Heatmap

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10 different data charts using Python

9. Area Chart:

```python
import matplotlib.pyplot as plt

x = [1, 2, 3, 4, 5]
y1 = [10, 15, 25, 30, 35]
y2 = [5, 10, 20, 25, 30]

plt.fill_between(x, y1, y2, color='skyblue', alpha=0.4)
plt.title('Area Chart')
plt.xlabel('X-axis')
plt.ylabel('Y-axis')
plt.show()
#clcoding.com
```


Area Chart

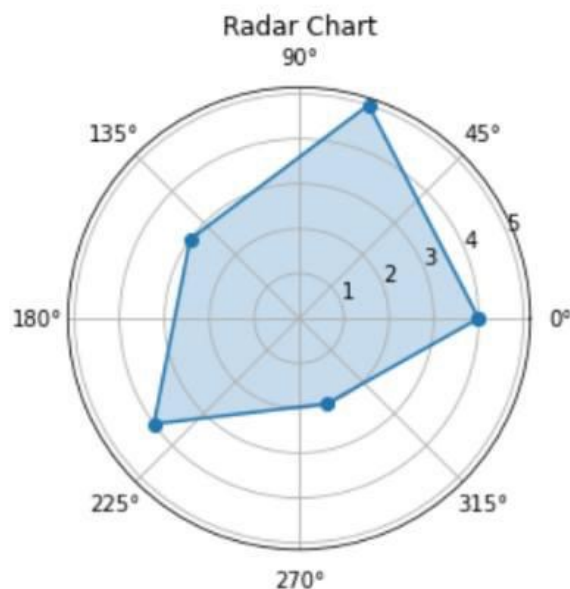Learn More

10 different data charts using Python

10. Radar Chart:

```python
import matplotlib.pyplot as plt
import numpy as np

labels = np.array([' A', ' B', ' C', ' D', ' E'])
data = np.array([4, 5, 3, 4, 2])

angles = np.linspace(0, 2 * np.pi, len(labels), endpoint=False)
data = np.concatenate((data, [data[0]]))
angles = np.concatenate((angles, [angles[0]]))

plt.polar(angles, data, marker='o')
plt.fill(angles, data, alpha=0.25)
plt.title('Radar Chart')
plt.show()
#clcoding.com
```


Radar Chart

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