



+ Code + Text



matplotlib 3d scatter plot

```
import numpy as np
import matplotlib.pyplot as plt
from mpl_toolkits.mplot3d import Axes3D

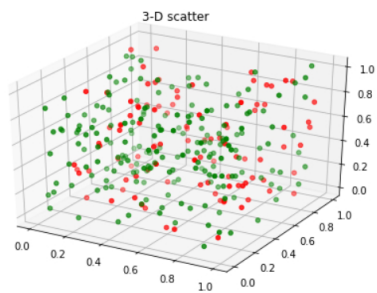
fig = plt.figure()
ax = Axes3D(fig)

x=np.random.rand(100)
y=np.random.rand(100)
z=np.random.rand(100)

x1=np.random.rand(200)
y1=np.random.rand(200)
z1=np.random.rand(200)

ax.scatter(x,y,z,c='r')
ax.scatter(x1,y1,z1,c='g')

plt.title('3-D scatter')
plt.show()
```

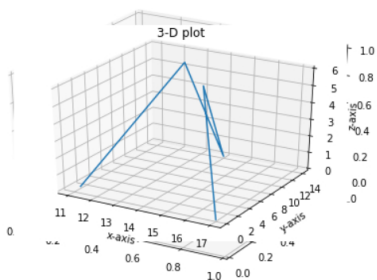


matplotlib 3d plot

```
import matplotlib.pyplot as plt
from mpl_toolkits.mplot3d import Axes3D

fig = plt.figure()
ax = Axes3D(fig)
ax = fig.add_subplot(111,projection='3d')
x=[11,13,14,15,17]
y=[1,11,14,6,0]
z=[0,6,0,6,0]
ax.plot(x,y,z)

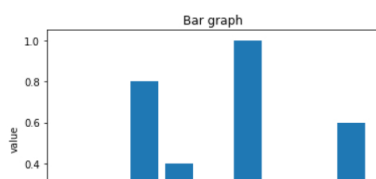
ax.set_xlabel('x-axis')
ax.set_ylabel('y-axis')
ax.set_zlabel('z-axis')
plt.title('3-D plot')
plt.show()
```

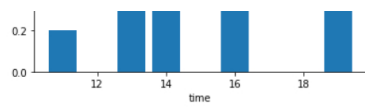


matplotlib bar graph

```
[3] import matplotlib.pyplot as plt

plt.bar([11,14,19,13,16],[0.2,0.4,0.6,0.8,1.0])
plt.title('Bar graph')
plt.ylabel('value')
plt.xlabel('time')
plt.show()
```





matplotlib pie plot

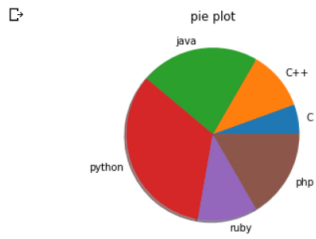
```
[4] import matplotlib.pyplot as plt

languages = ["C", "C++", "java", "python", "ruby", "php"]
usage = [10, 20, 40, 60, 20, 30]

plt.axis("equal")

plt.pie(usage, labels=languages, shadow=True)

plt.title("pie plot")
plt.show()
```

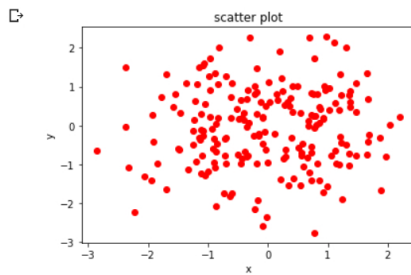


matplotlib scatter plot

```
import matplotlib.pyplot as plt
import numpy as np
x=np.random.randn(200)
y=np.random.randn(200)

plt.scatter(x,y,c='r')
plt.xlabel('x')
plt.ylabel('y')
plt.title('scatter plot')

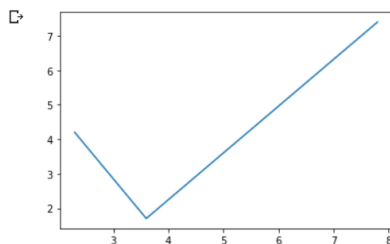
plt.show()
```



line plot

```
import matplotlib.pyplot as plt

plt.plot([2.3, 3.6, 7.8], [4.2, 1.7, 7.4])
plt.show()
```



[ ]

