

Basic line plot

The screenshot shows a Jupyter Notebook interface with the following details:

- Header:** jupyterlite Intro Last Checkpoint: 4 months ago PY Trusted
- Toolbar:** File Edit View Run Kernel Settings Help JupyterLab Python (Pyodide)
- Code Cell [1]:**

```
[1]: import matplotlib.pyplot as plt  
fig, ax = plt.subplots()  
ax.plot([1, 2, 3, 4], [1, 4, 2, 3])  
plt.show()
```

A message in a red box: Matplotlib is building the font cache; this may take a moment.
- Plot:** A line plot showing a V-shaped curve. The x-axis ranges from 1.0 to 4.0 with ticks at 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0. The y-axis ranges from 1.0 to 4.0 with ticks at 1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0. The plot starts at (1, 1), rises to (2, 4), falls to (3, 2), and ends at (4, 3).
- Output Cell []:** An empty input field.

Two line series

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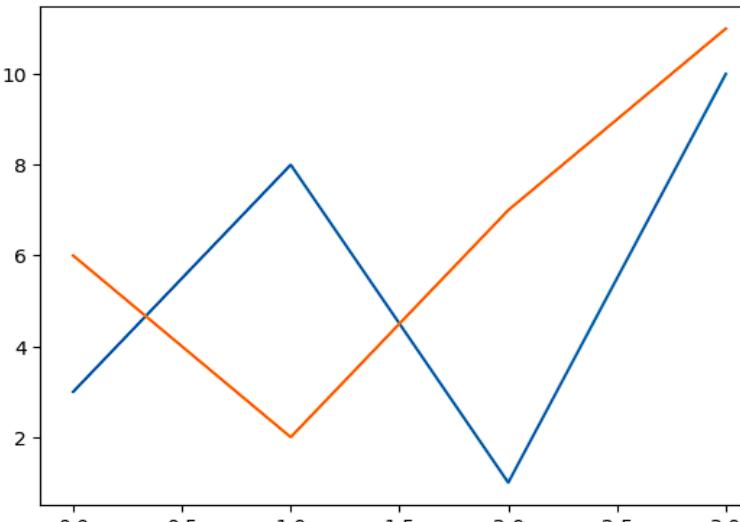
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```
[2]: import matplotlib.pyplot as plt
import numpy as np

y1 = np.array([3,8, 1, 10])
y2 = np.array([6, 2, 7, 11])

plt.plot(y1)
plt.plot(y2)

plt.show()
```



[]:

Simple scatter plot

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```
[3]: import matplotlib.pyplot as plt
import numpy as np

x = np.array([5,7,8,7,2,17,2,9,4,11,12,9,6])
y = np.array([99,86,87,88,111,86,103,87,94,78,77,85,86])

plt.scatter(x, y)
plt.show()
```

A scatter plot generated by the provided Python code. The x-axis ranges from 2 to 16, and the y-axis ranges from 80 to 110. The data points show a general upward trend, indicating a positive correlation. The x-values are [5, 7, 8, 7, 2, 17, 2, 9, 4, 11, 12, 9, 6] and the corresponding y-values are [99, 86, 87, 88, 111, 86, 103, 87, 94, 78, 77, 85, 86].

x	y
5	99
7	86
8	87
7	88
2	111
17	86
2	103
9	87
4	94
11	94
12	78
9	77
6	85
12	85
16	86

Scatter with color and size

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```
[4]: from matplotlib import pyplot as plt
import numpy as np

#Generate 100 random data points along 3 dimension
x,y, scale = np.random.randn(3,100)
fig, ax = plt.subplots()

#Map each onto a scatterplot we'll create with Matplotlib
ax.scatter(x=x, y=y, c=scale, s=np.abs(scale)*500)
ax.set(title="Some random data, created with JupyterLab!")
plt.show()
```

Some random data, created with JupyterLab!

[]:

Bar chart (4 bars)

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[5]:

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

x = np.array(["A", "B", "C", "D"])
y = np.array([3, 8, 1, 10])

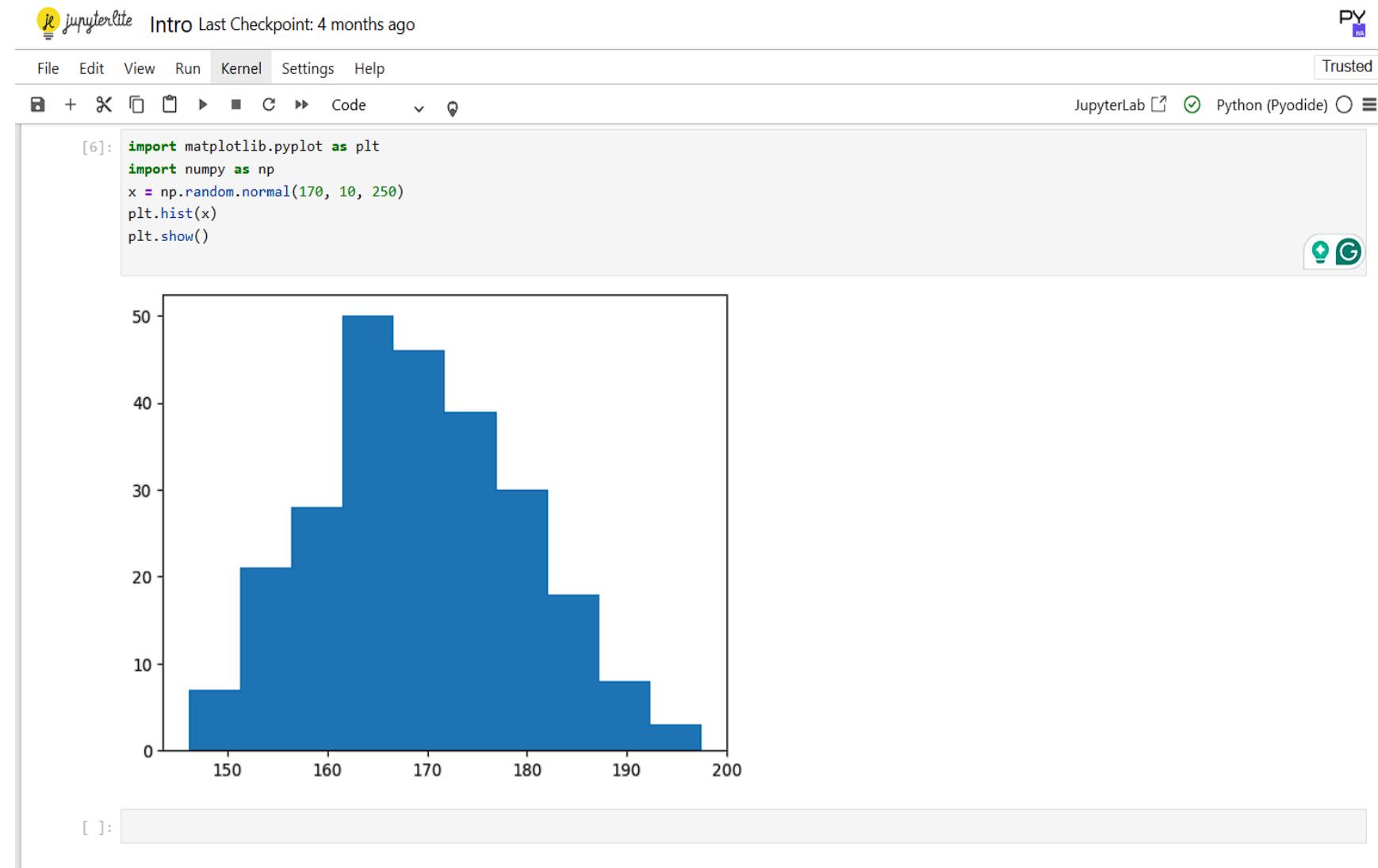
plt.bar(x,y)
plt.show()
```

A bar chart with four blue bars. The x-axis categories are labeled A, B, C, and D. The y-axis ranges from 0 to 10 with increments of 2. The bar heights are: A is at 3, B is at 8, C is at 1, and D is at 10.

Category	Value
A	3
B	8
C	1
D	10

[]:

Simple histogram



Simple pie chart

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[7]:

```
import matplotlib.pyplot as plt
import numpy as np
y = np.array([35, 25, 25, 15])
plt.pie(y)
plt.show()
```

[]: