

How can the number of ticks be changed in Matplotlib?

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The number of ticks in Matplotlib can be changed by using the "set_xticks" and "set_yticks" functions. These functions allow the user to specify the desired number and location of ticks on the x and y axes respectively. The "set_xticks" and "set_yticks" functions can also be used to customize the appearance of the ticks, such as their size, color, and label. Additionally, the "tick_params" function can be used to further adjust the tick properties. By utilizing these functions, the number of ticks in a Matplotlib graph can be easily modified to suit the user's needs.

Change the Number of Ticks in Matplotlib

You can use the following syntax to change the number of ticks on each axis in Matplotlib:

#specify number of ticks on x-axis

```
plt.locator_params(axis='x', nbins=4)
```

#specify number of ticks on y-axis

```
plt.locator_params(axis='y', nbins=2)
```

The nbins argument specifies how many ticks to display on each axis.

The following examples show how to use this syntax in practice.

Example 1: Specify Number of Ticks on Both Axes

The following code shows how to specify the number of ticks on both axes in a plot:

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

```
#define data
```

```
x =
```

```
y =
```

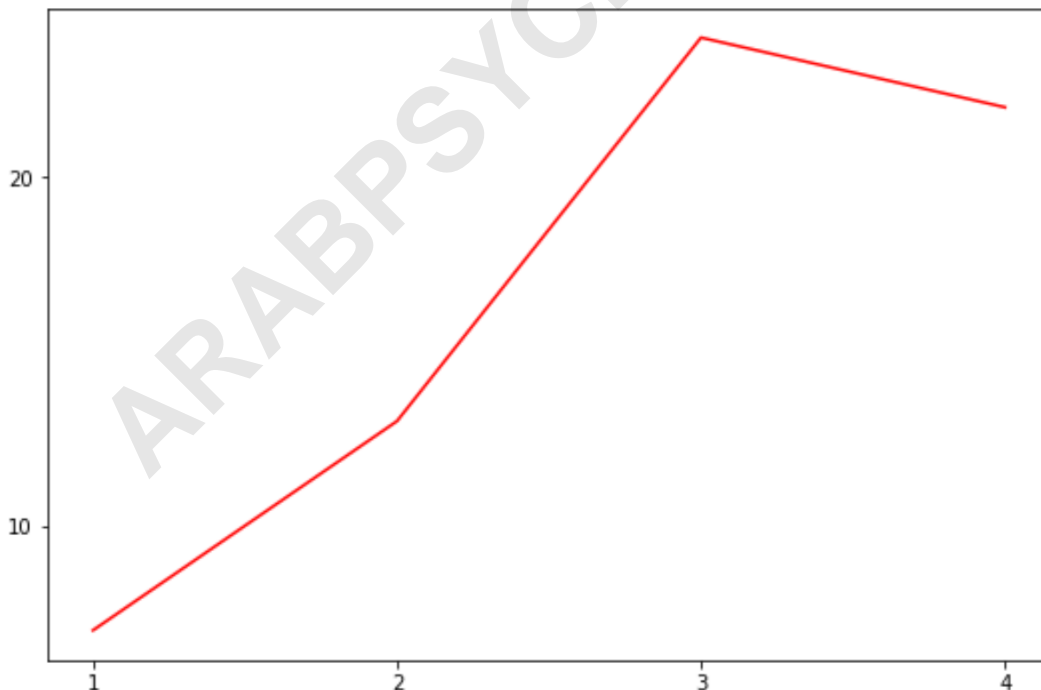
```
#create plot
```

```
plt.plot(x, y, color='red')
```

```
#specify number of ticks on axes
```

```
plt.locator_params(axis='x', nbins=4)
```

```
plt.locator_params(axis='y', nbins=2)
```



Example 2: Specify Number of Ticks on X-Axis Only

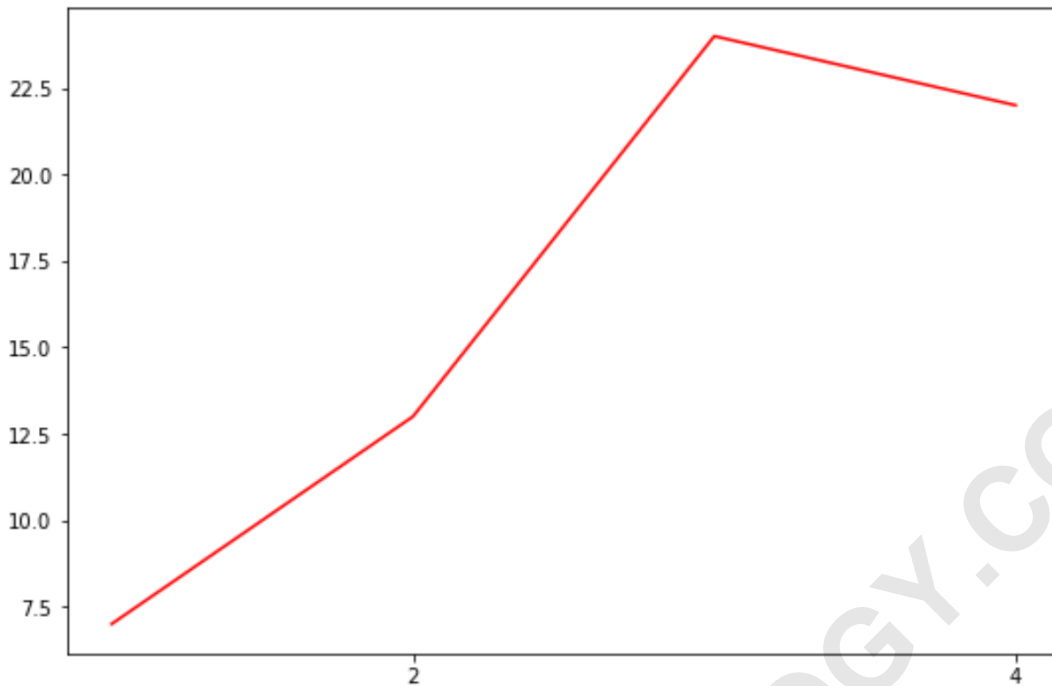
The following code shows how to specify the number of ticks just on the x-axis:

```
import matplotlib.pyplot as plt

#define data
x =
y =

#create plot
plt.plot(x, y, color='red')

#specify number of ticks on x-axis
plt.locator_params(axis='x', nbins=2)
```



Example 3: Specify Number of Ticks on Y-Axis Only

The following code shows how to specify the number of ticks just on the y-axis:

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

```
#define data
```

```
x =
```

```
y =
```

```
#create plot
```

```
plt.plot(x, y, color='red')
```

```
#specify number of ticks on y-axis
```

`plt.locator_params(axis='y', nbins=2)`

