

# How can I draw a horizontal line in Matplotlib?

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## RECOMMENDED CITATION

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To draw a horizontal line in Matplotlib, one can use the "axhline" function which takes in the desired y-value and can be customized with parameters such as the line color, style, and width. This function allows for easy creation of horizontal lines on a graph or plot in Matplotlib, making it a useful tool for data visualization. By specifying the y-value, users can accurately place the horizontal line at any desired location on the plot. Additionally, this function can be combined with other Matplotlib features such as subplots and legends to further enhance the visual presentation.

## Draw a Horizontal Line in Matplotlib (With Examples)

You can use the following syntax to draw a horizontal line in Matplotlib:

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

```
#draw vertical line at y=10
```

```
plt.axhline(y=10)
```

The following examples show how to use this syntax in practice with the following pandas DataFrame:

```
import pandas as pd
```

```
#create DataFrame
```

```
df = pd.DataFrame({'x': ,  
'y': })
```

```
#view DataFrame
```

```
df
```

```
x y
0 1 5
1 2 7
2 3 8
3 4 15
4 5 26
5 6 39
6 7 45
7 8 40
```

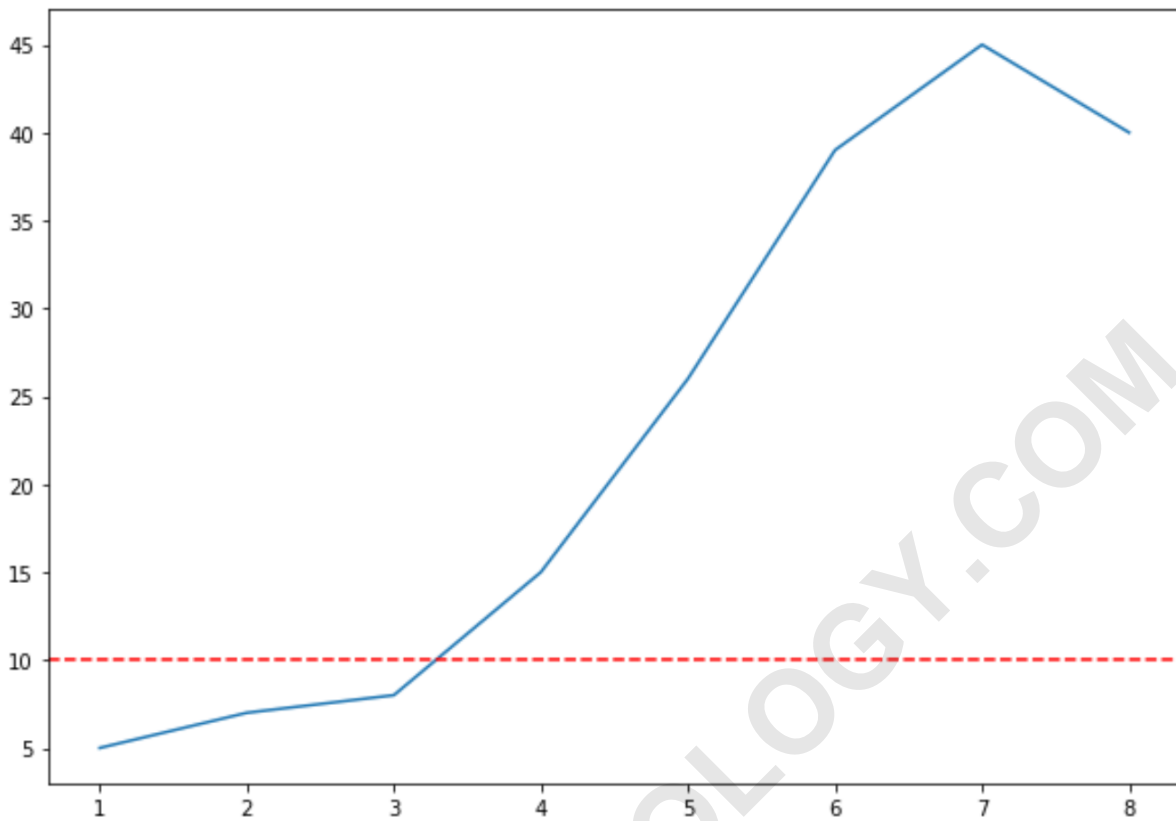
#### Example 1: Draw One Horizontal Line

The following code shows how to draw one horizontal line on a Matplotlib plot:

```
import matplotlib.pyplot as plt

#create line plot
plt.plot(df.x, df.y)

#add horizontal line at y=10
plt.axhline(y=10, color='red', linestyle='--')
```



**Note: Refer to the for a complete list of colors and linestyles you can apply to horizontal lines.**