

How do you add titles to plots in Matplotlib?

Authored by
stats writer

May 3, 2024

RECOMMENDED CITATION

stats writer (2024). *How do you add titles to plots in Matplotlib?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=142263>

Matplotlib is a popular Python library used for creating visualizations and graphs. One important aspect of creating a plot is adding a title to it, which provides a clear and concise description of the data being represented. To add a title to a plot in Matplotlib, one can use the "title()" function and pass in the desired title as a string. This function can be applied to the figure object or the axes object, depending on the specific plot being created. Additionally, the title can be customized by specifying font size, color, and other parameters. Overall, adding titles to plots in Matplotlib is a simple and essential step in creating informative and visually appealing data visualizations.

Add Titles to Plots in Matplotlib

You can use the following syntax to add a title to a plot in Matplotlib:

```
plt.title('My Title')
```

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

Example 1: Add Title to Plot

The following code shows how to add a title to a plot in Matplotlib:

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

```
#define x and y
```

```
x =
```

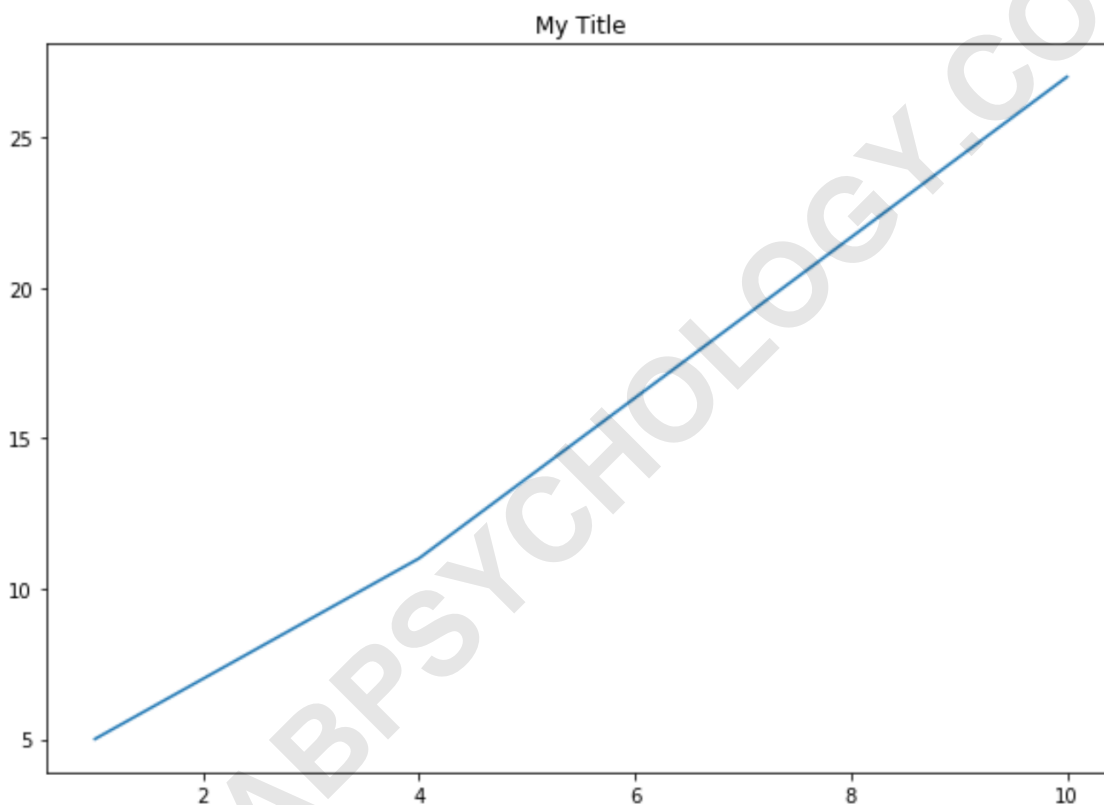
```
y =
```

#create plot of x and y

```
plt.plot(x, y)
```

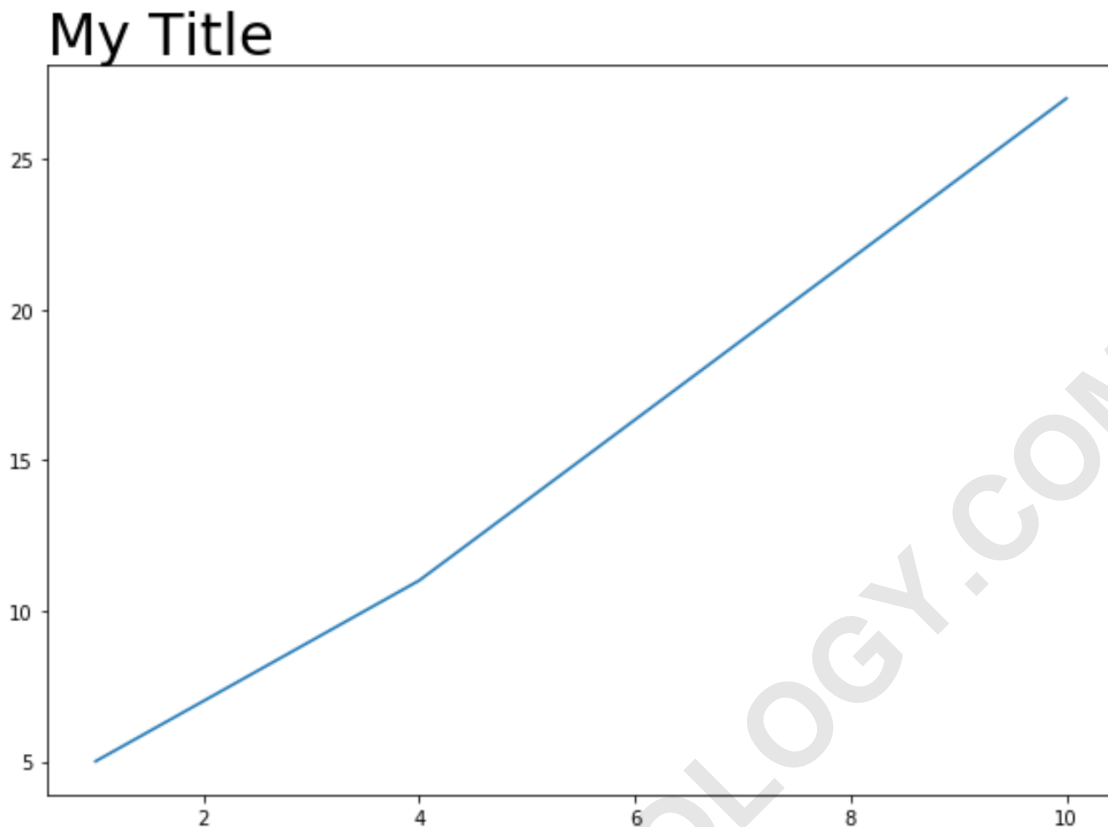
#add title

```
plt.title('My Title')
```



Note that you can also use the `fontsize` and `loc` arguments to specify the font size and location of the title, respectively:

```
plt.title('My Title', fontsize=30, loc='left')
```



Example 2: Add Title to Subplots

The following code shows how to use the `set_title()` function to specify titles for individual subplots in Matplotlib:

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

```
#define subplots
```

```
fig, ax = plt.subplots(2, 2)
```

```
fig.tight_layout()
```

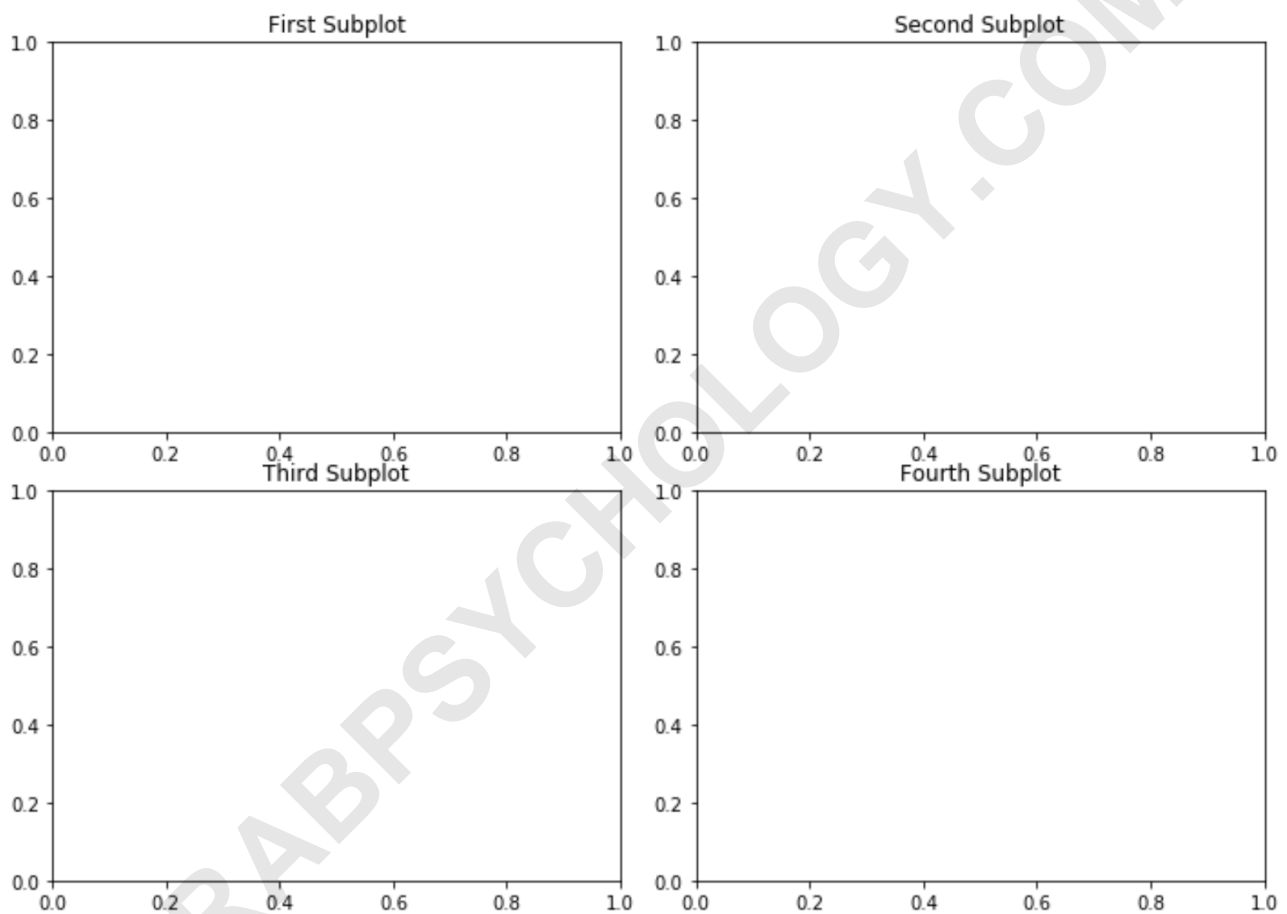
```
#define subplot titles
```

```
ax.set_title('First Subplot')
```

```
ax.set_title('Second Subplot')
```

```
ax.set_title('Third Subplot')
```

```
ax.set_title('Fourth Subplot')
```



How to Adjust Title Position in Matplotlib