

How can I add titles to subplots in Matplotlib?

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Adding titles to subplots in Matplotlib can be achieved by using the "set_title()" function. This function allows you to specify the title for each individual subplot, making it easier to label and differentiate between plots. To add a title, simply call the function on the desired subplot and pass in the title as a parameter. This feature is particularly useful when creating complex plots with multiple subplots, as it helps to provide a clear and organized visual representation of the data. Additionally, using titles can also make the plot more informative and user-friendly for viewers.

Add Title to Subplots in Matplotlib (With Examples)

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

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

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

Example 1: Add Titles to Subplots in Matplotlib

The following code shows how to create a grid of 2x2 subplots and specify the title of each subplot:

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

```
#define subplots
```

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

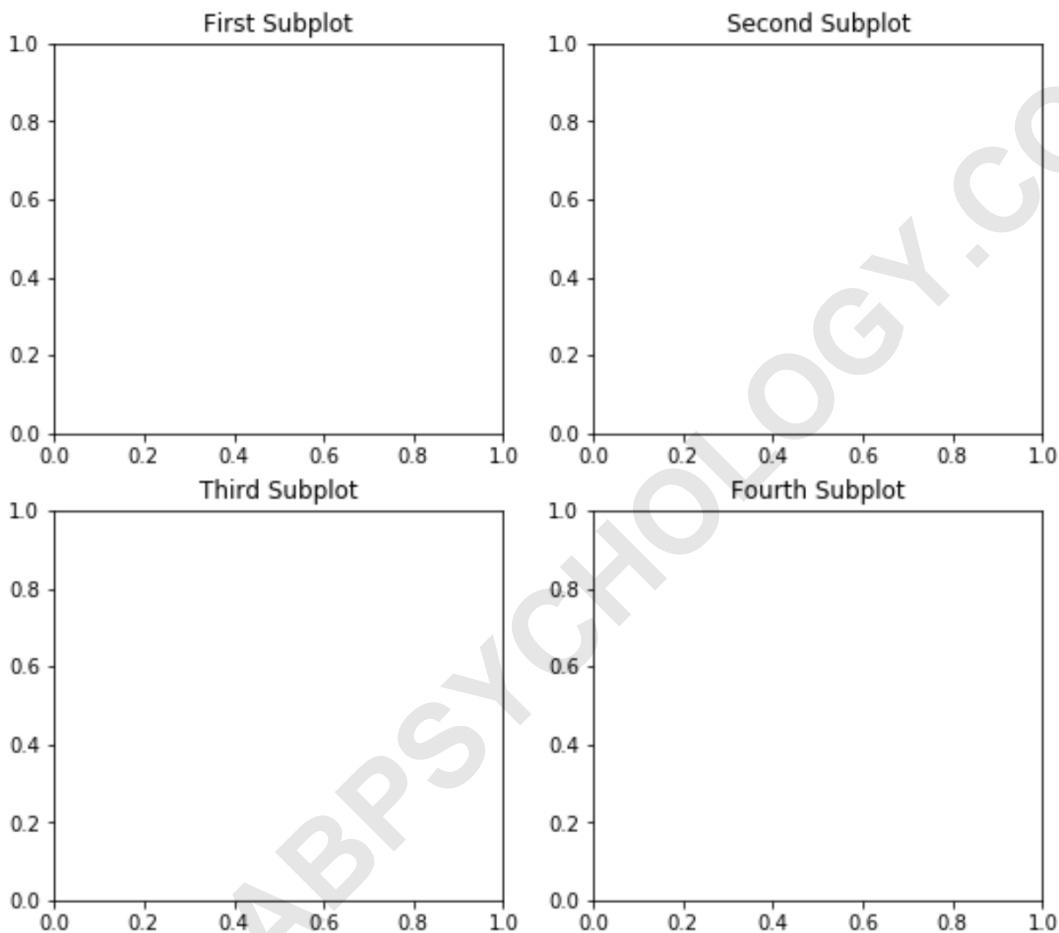
```
#define subplot titles
```

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

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

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

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



Notice that each subplot has a unique title.

Example 2: Add Customized Titles to Subplots in Matplotlib

We can use the following arguments to customize the titles of the subplots:

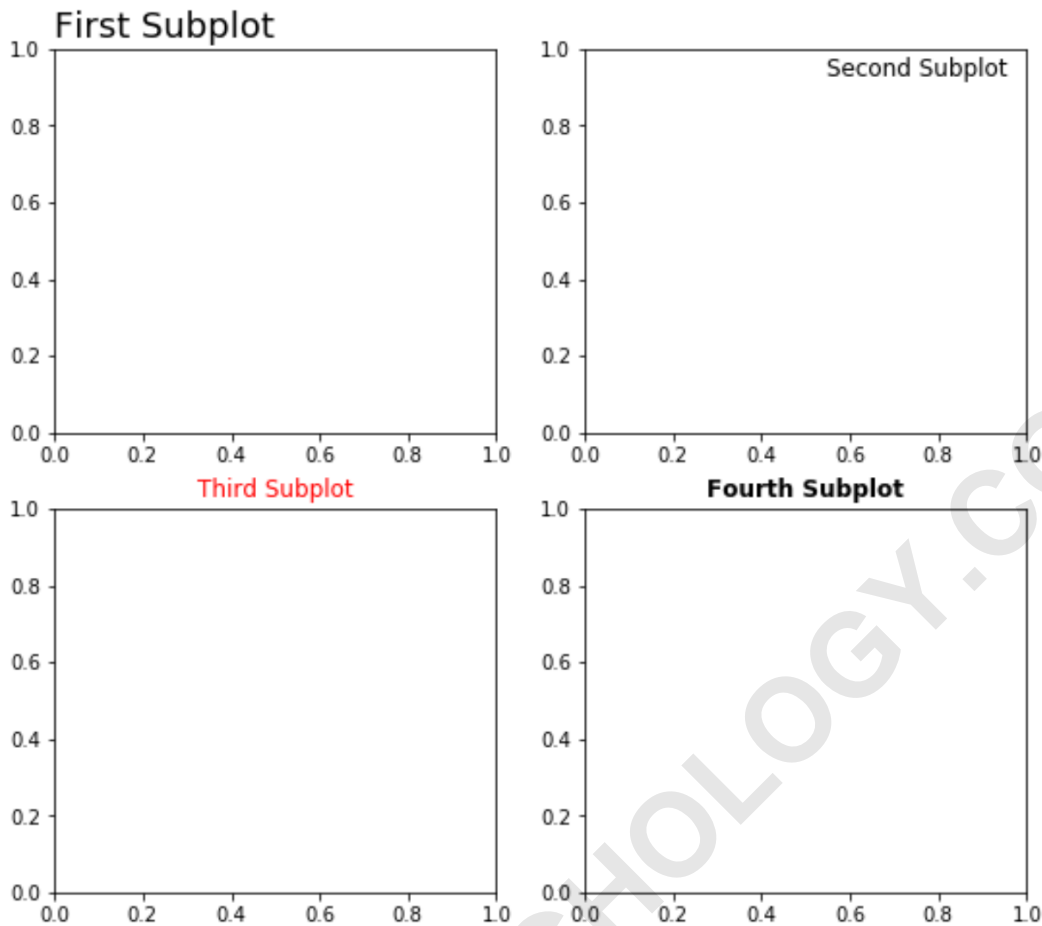
fontsize: The font size of the title
loc: The location of the title ("left", "center", "right")
x, y: The (x, y) coordinates of the title
color: The font color of the title
fontweight: The font weight of the title

The following code shows how to use these arguments in practice:

```
import matplotlib.pyplot as plt

#define subplots
fig, ax = plt.subplots(2, 2)

#define subplot titles
ax.set_title('First Subplot', fontsize=18, loc='left')
ax.set_title('Second Subplot', x=.75, y=.9)
ax.set_title('Third Subplot', color='red')
ax.set_title('Fourth Subplot', fontweight='bold')
```



Using these various arguments, you can customize the subplot titles to look however you'd like.

Additional Resources

[How to Adjust Title Position in Matplotlib](#)