

How do I add a table title to a Pandas DataFrame?

Authored by
stats writer

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Adding a table title to a Pandas DataFrame involves using the "set_title" function, which allows for customizing the title of the table. This function can be applied to the DataFrame object and the desired title can be passed as an argument. This will result in the title being displayed above the table, making it easier to identify and understand the data being presented. By adding a table title, the DataFrame can become more organized and professional, making it easier to interpret and share with others.

Add Table Title to Pandas DataFrame

You can use the `set_title()` function from `matplotlib` to add a title to a table created from a pandas DataFrame:

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

The following example shows how to use this function in practice.

Example: Add Table Title to Pandas DataFrame

Suppose we have the following pandas DataFrame that shows the points and assists for various basketball teams:

```
import pandas as pd

#create DataFrame
df = pd.DataFrame({'team': ,
'points': ,
```

```
'assists': })
```

```
#view DataFrame
```

```
print(df)
```

```
team points assists
```

```
0 A 18 5
```

```
1 B 22 7
```

```
2 C 19 7
```

```
3 D 14 9
```

```
4 E 14 12
```

```
5 F 11 9
```

```
6 G 20 9
```

```
7 H 28 4
```

We can use the following code to create a table in matplotlib that displays the values from the DataFrame and use `set_title()` to specify a title for the table:

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

```
#initialize figure
```

```
fig = plt.figure(figsize = (8, .2))
```

```
ax = fig.add_subplot(111)
```

#create table

```
ax.table(cellText = df.values, rowLabels = df.index,  
colLabels = df.columns, cellLoc='center')
```

#add title to table

```
ax.set_title('Points and Assists by Team')
```

#turn axes off

```
ax.axis('off')
```

Points and Assists by Team

	team	points	assists
0	A	18	5
1	B	22	7
2	C	19	7
3	D	14	9
4	E	14	12
5	F	11	9
6	G	20	9
7	H	28	4

Note: You can find the complete documentation for the `table()` function in `matplotlib` .

Notice that the title 'Points and Assists by Team' has been added above the table.

Also note that you can use the `fontdict` and `loc` arguments to modify the title font and title location:

```
import matplotlib.pyplot as plt

#initialize figure
fig = plt.figure(figsize = (8, .2))
ax = fig.add_subplot(111)

#create table
ax.table(cellText = df.values, rowLabels = df.index,
colLabels = df.columns, cellLoc='center')

#add title to table
ax.set_title('Points and Assists by Team',
fontdict={'fontsize': 20,
'fontweight': 'bold',
'color': 'steelblue'},
loc='left')

#turn axes off
ax.axis('off')
```

Points and Assists by Team

	team	points	assists
0	A	18	5
1	B	22	7
2	C	19	7
3	D	14	9
4	E	14	12
5	F	11	9
6	G	20	9
7	H	28	4

Notice that the title font is now larger, bold, left-aligned, and blue.

Refer to the for a complete list of ways you can modify the appearance of the title.