

practical-9

May 9, 2025

```
[1]: import pandas as pd
import numpy as np

[2]: import matplotlib as plt

[3]: import seaborn as sns

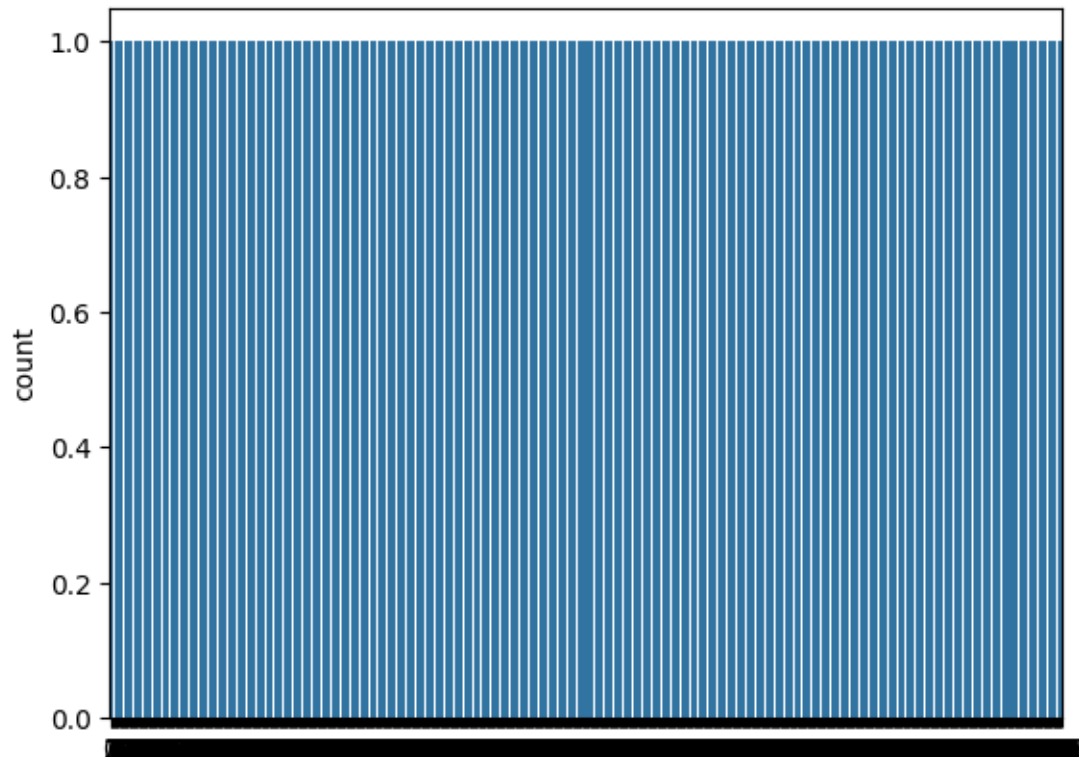
[4]: import matplotlib.pyplot as plt

[5]: from seaborn import load_dataset

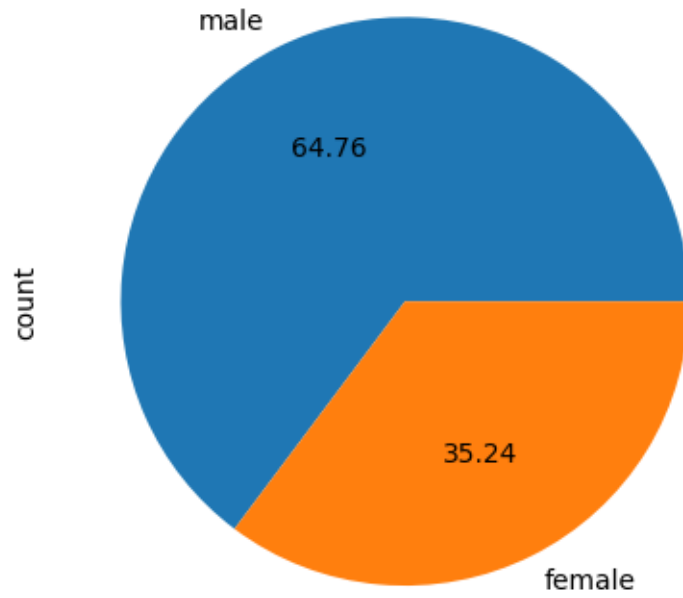
[6]: data = pd.read_csv("train.csv")

[7]: tips = load_dataset("tips")

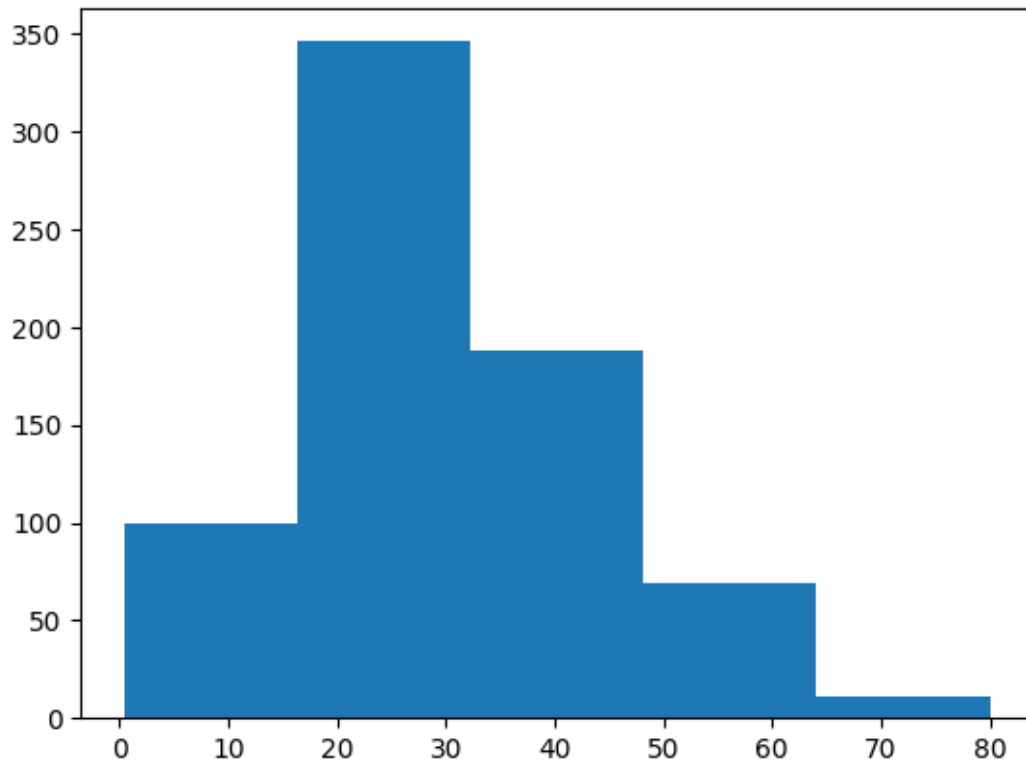
[8]: sns.countplot(data['survived'])
plt.show()
```



```
[9]: data['sex'].value_counts().plot(kind="pie", autopct="%.2f")  
plt.show()
```



```
[10]: plt.hist(data['age'], bins=5)  
plt.show()
```



```
[11]: sns.distplot(data['age'])  
plt.show()
```

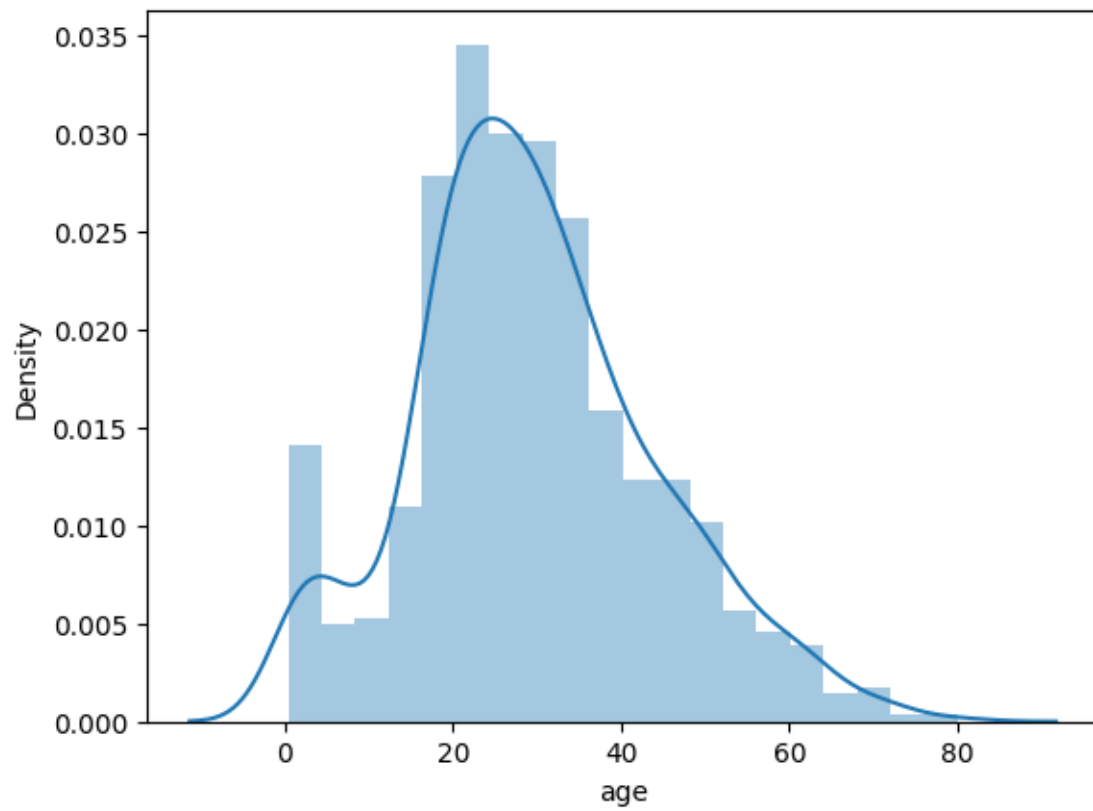
C:\Users\ASUS\AppData\Local\Temp\ipykernel_1928\467714352.py:1: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

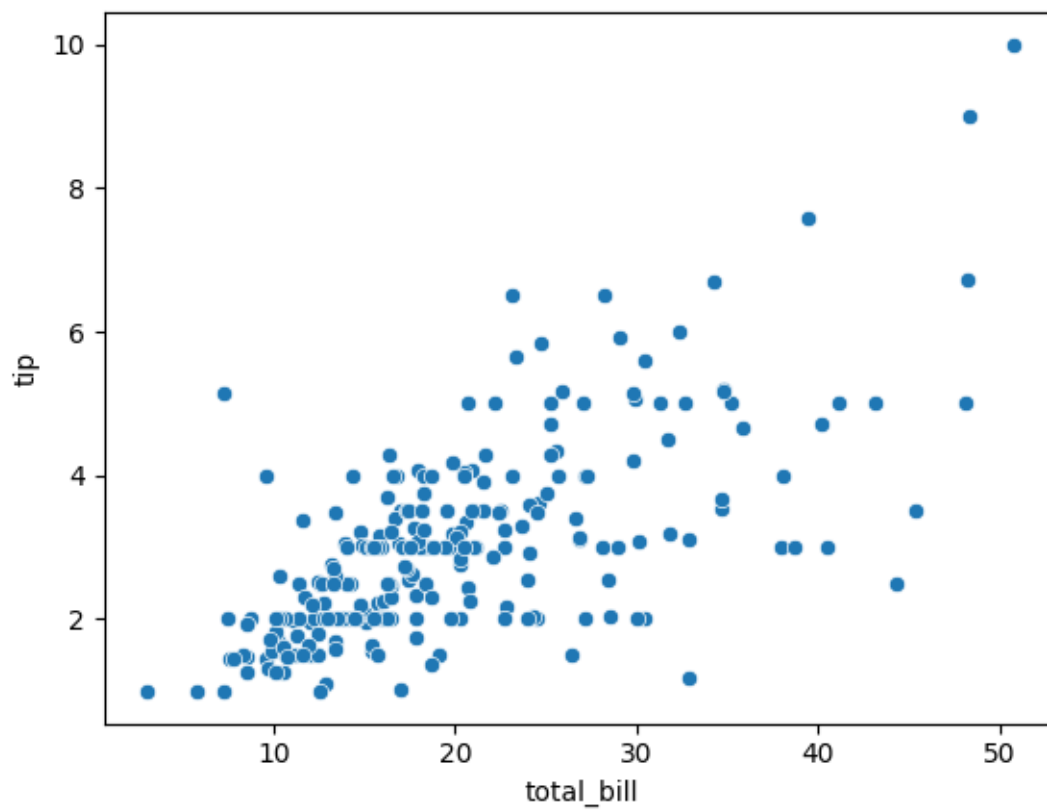
Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see
<https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751>

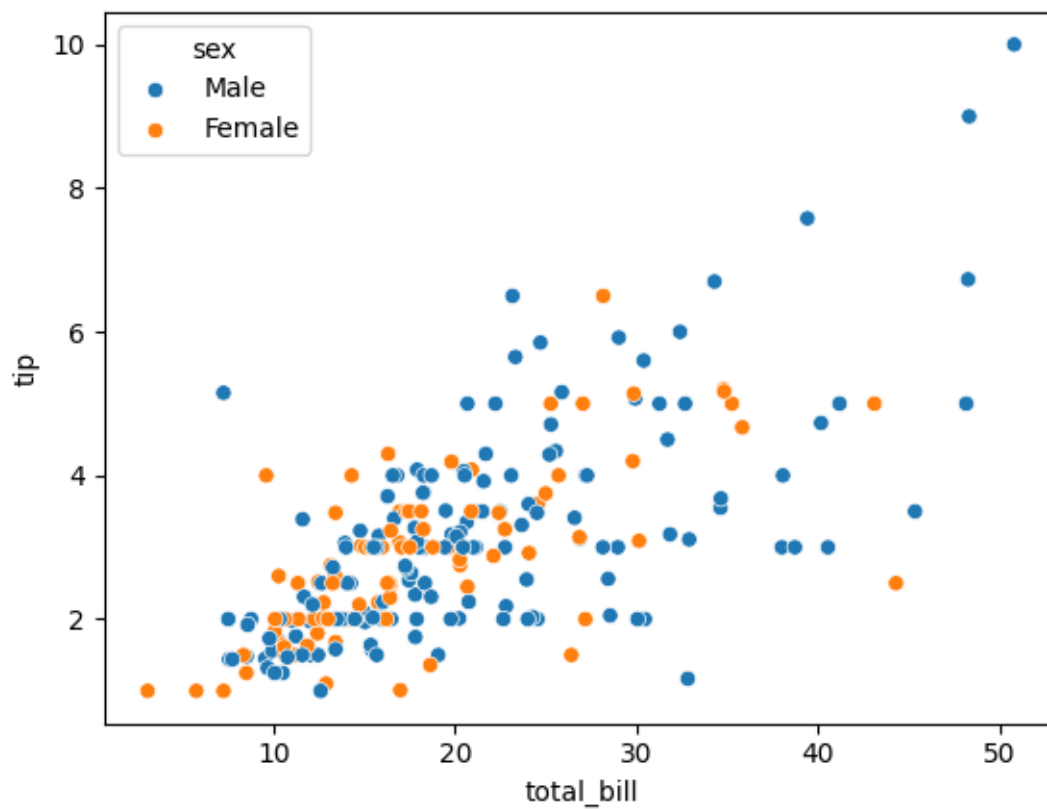
```
sns.distplot(data['age'])
```



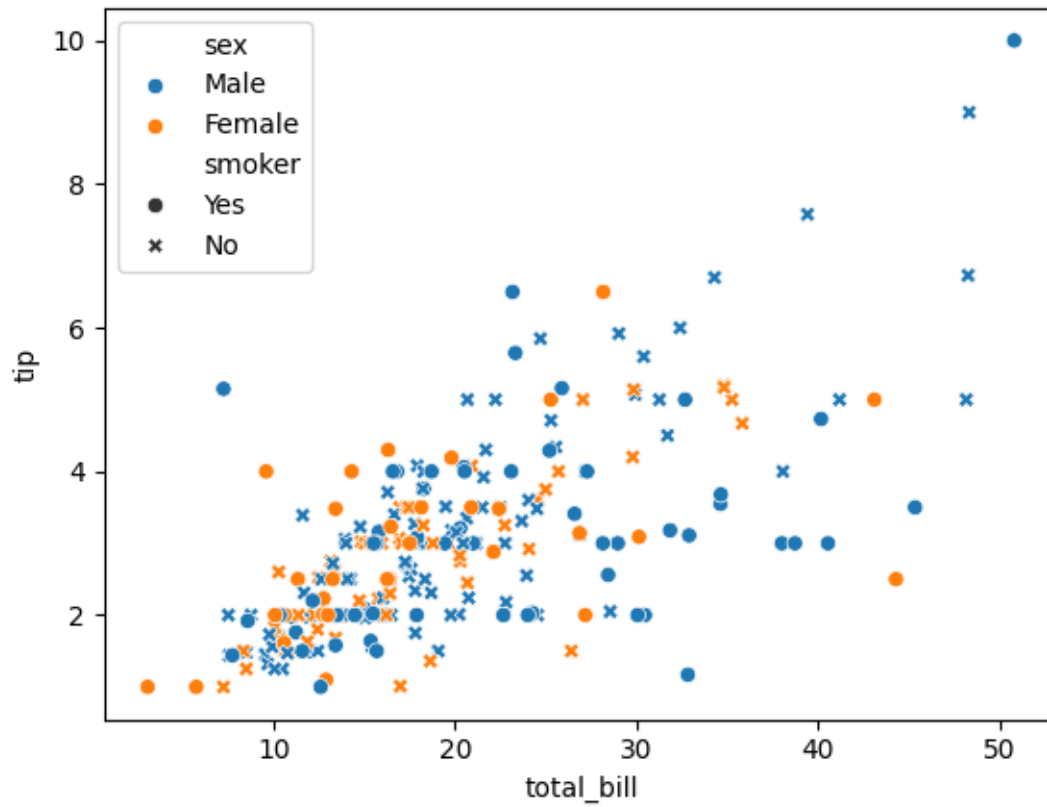
```
[12]: sns.scatterplot(x="total_bill", y="tip", data=tips)
plt.show()
```



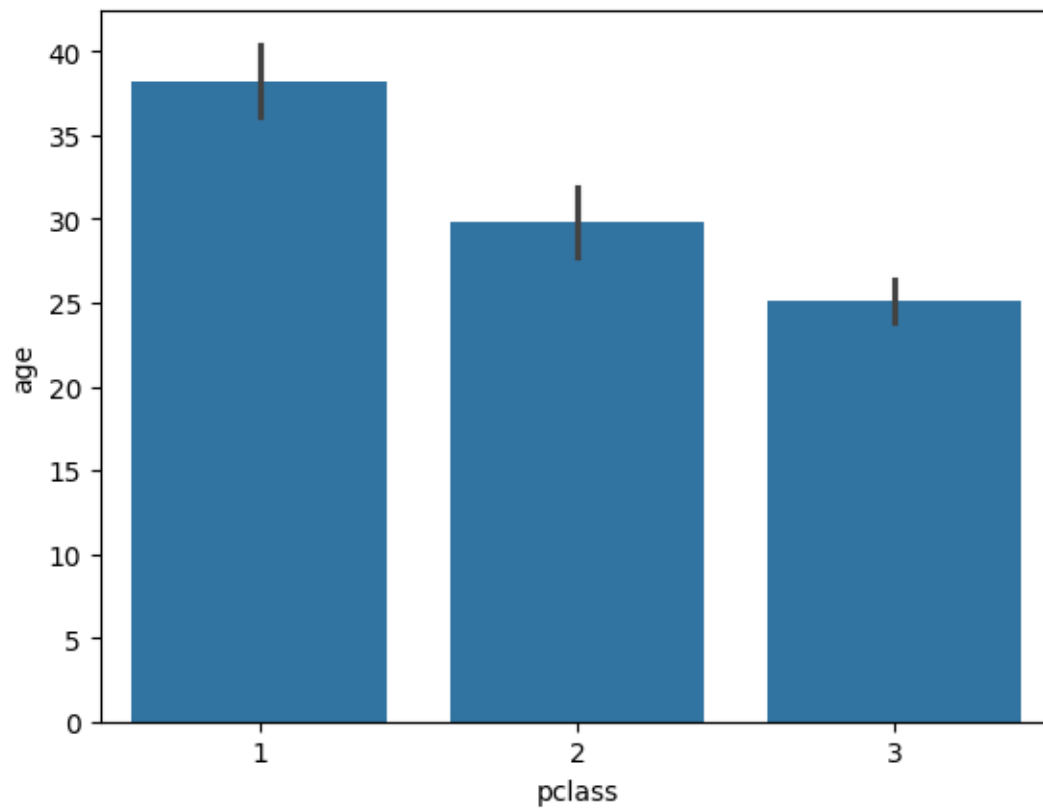
```
[13]: sns.scatterplot(x="total_bill", y="tip", hue="sex", data=tips)
plt.show()
```



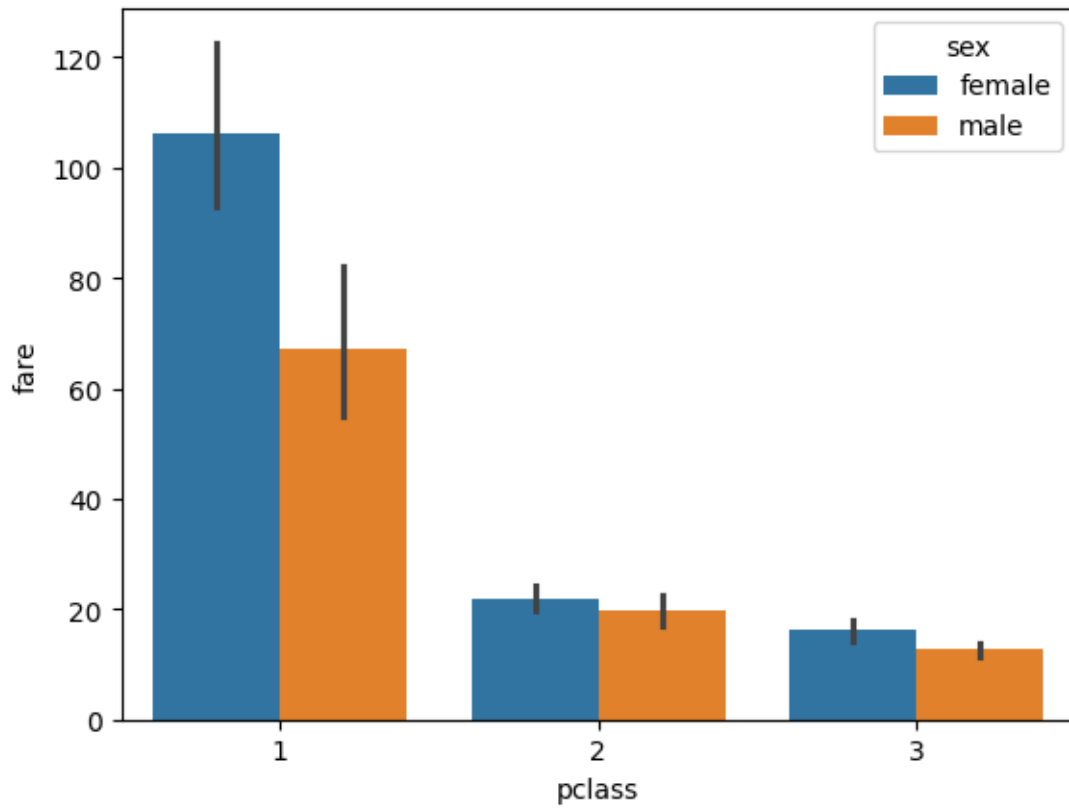
```
[16]: sns.scatterplot(x="total_bill", y="tip", hue="sex", style="smoker", data=tips)
plt.show()
```



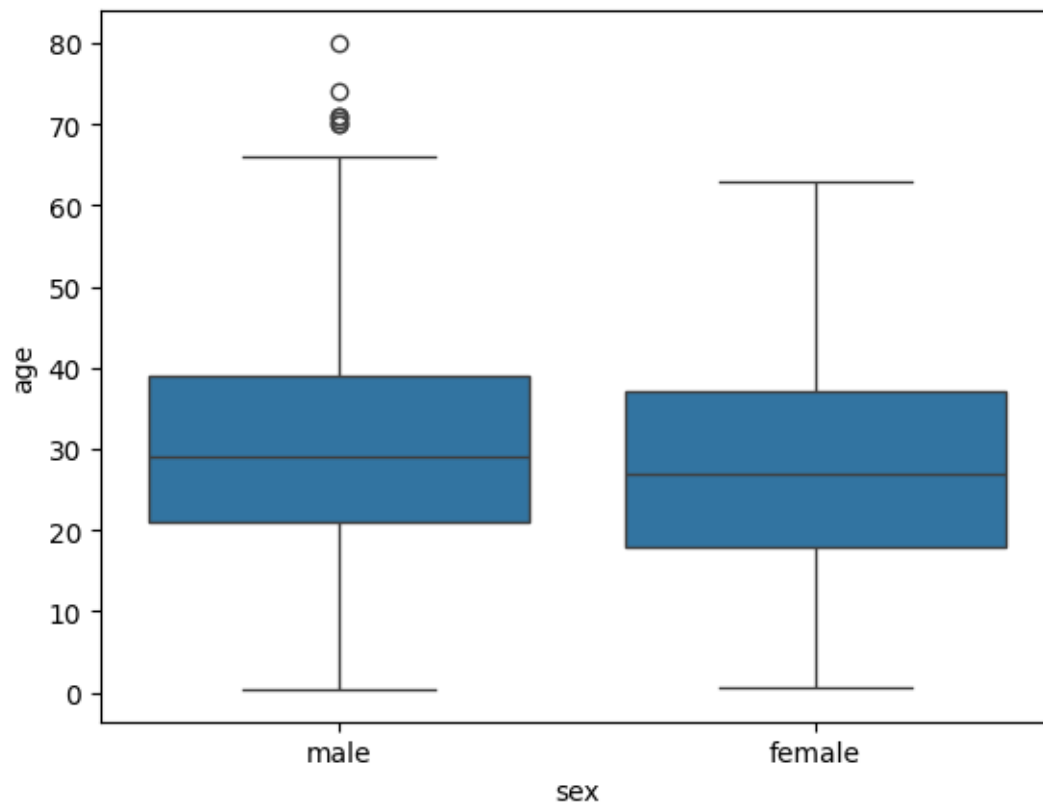
```
[17]: sns.barplot(x='pclass', y='age', data=data)
plt.show()
```

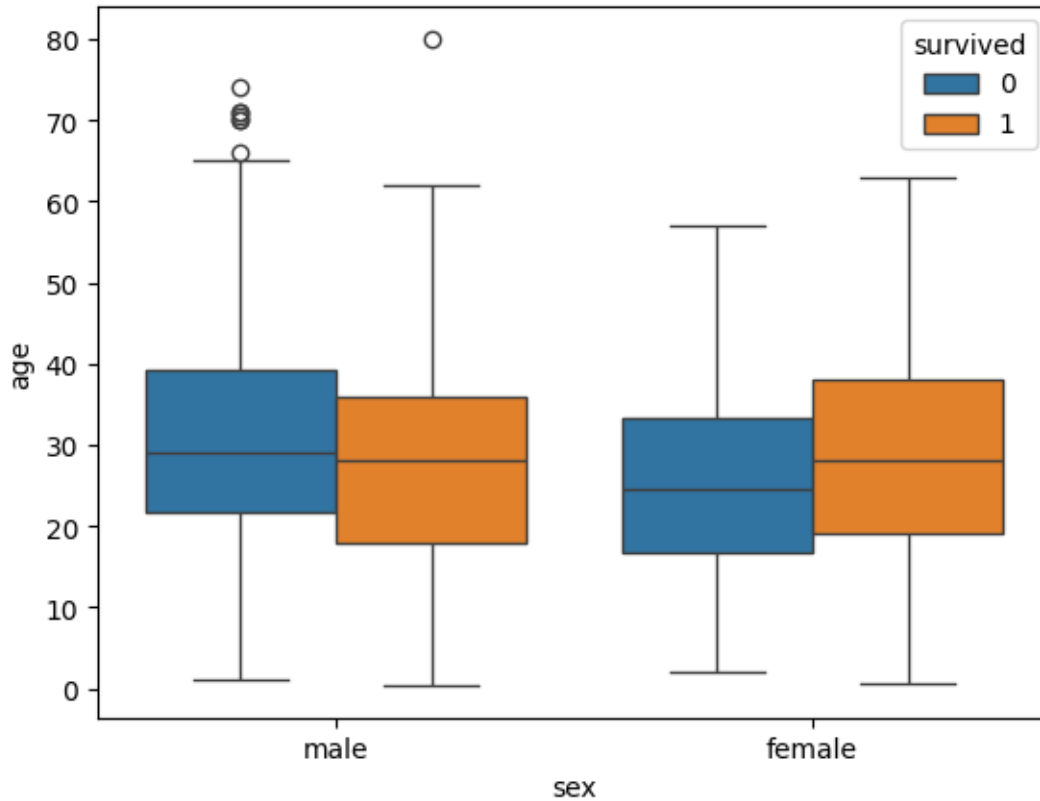
```
[18]: sns.barplot(x='pclass', y='fare', hue='sex', data=data)  
plt.show()
```



```
[19]: sns.boxplot(x='sex', y='age', data=data)  
plt.show()
```



```
[20]: sns.boxplot(x='sex', y='age', hue='survived', data=data)
plt.show()
```



```
[22]: sns.distplot(data[data['survived'] == 0]['age'], hist=False, color="blue")
sns.distplot(data[data['survived'] == 1]['age'], hist=False, color="orange")
plt.show()
```

C:\Users\ASUS\AppData\Local\Temp\ipykernel_1928\1485369868.py:1: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `kdeplot` (an axes-level function for kernel density plots).

For a guide to updating your code to use the new functions, please see <https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751>

```
sns.distplot(data[data['survived'] == 0]['age'], hist=False, color="blue")
C:\Users\ASUS\AppData\Local\Temp\ipykernel_1928\1485369868.py:2: UserWarning:
```

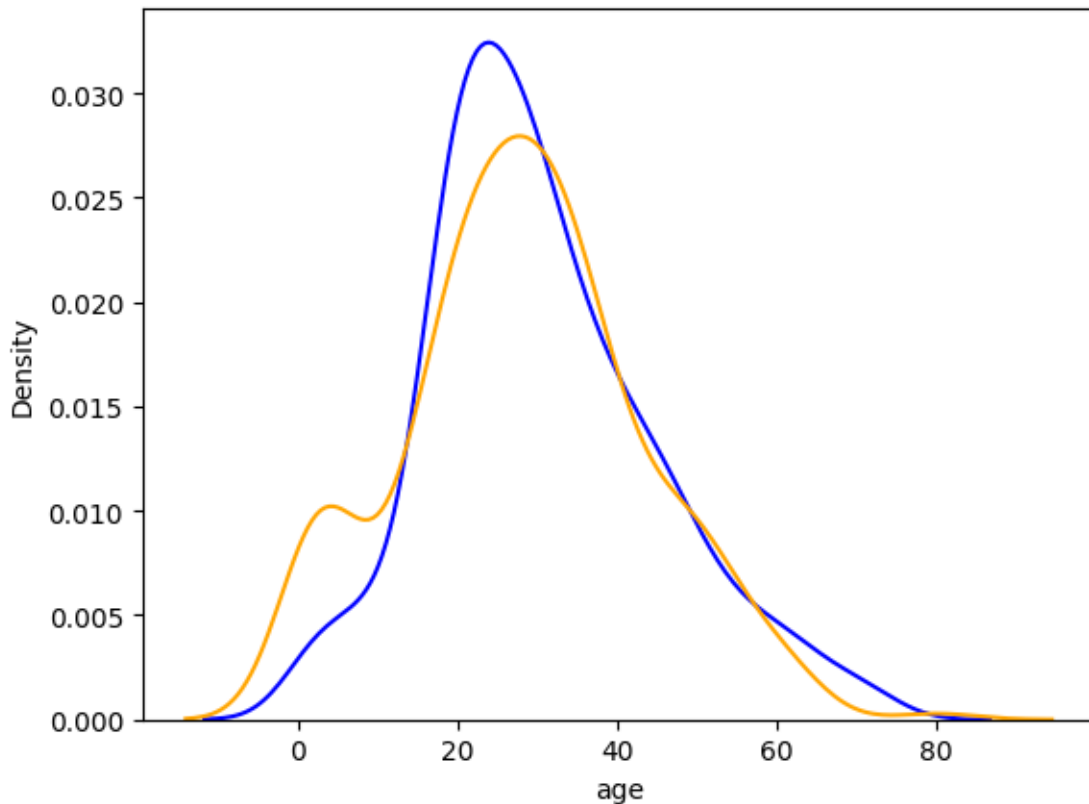
`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with

similar flexibility) or `kdeplot` (an axes-level function for kernel density plots).

For a guide to updating your code to use the new functions, please see <https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751>

```
sns.distplot(data[data['survived'] == 1]['age'], hist=False, color="orange")
```

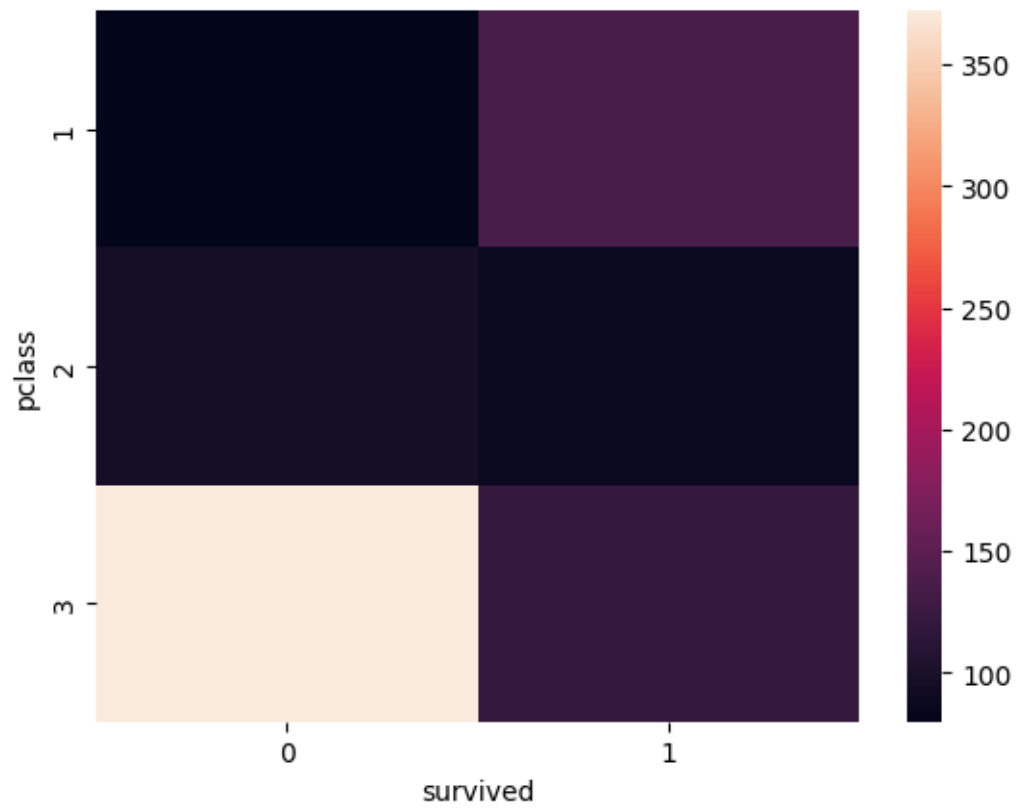


```
[23]: pd.crosstab(data['pclass'],data['survived'])
```

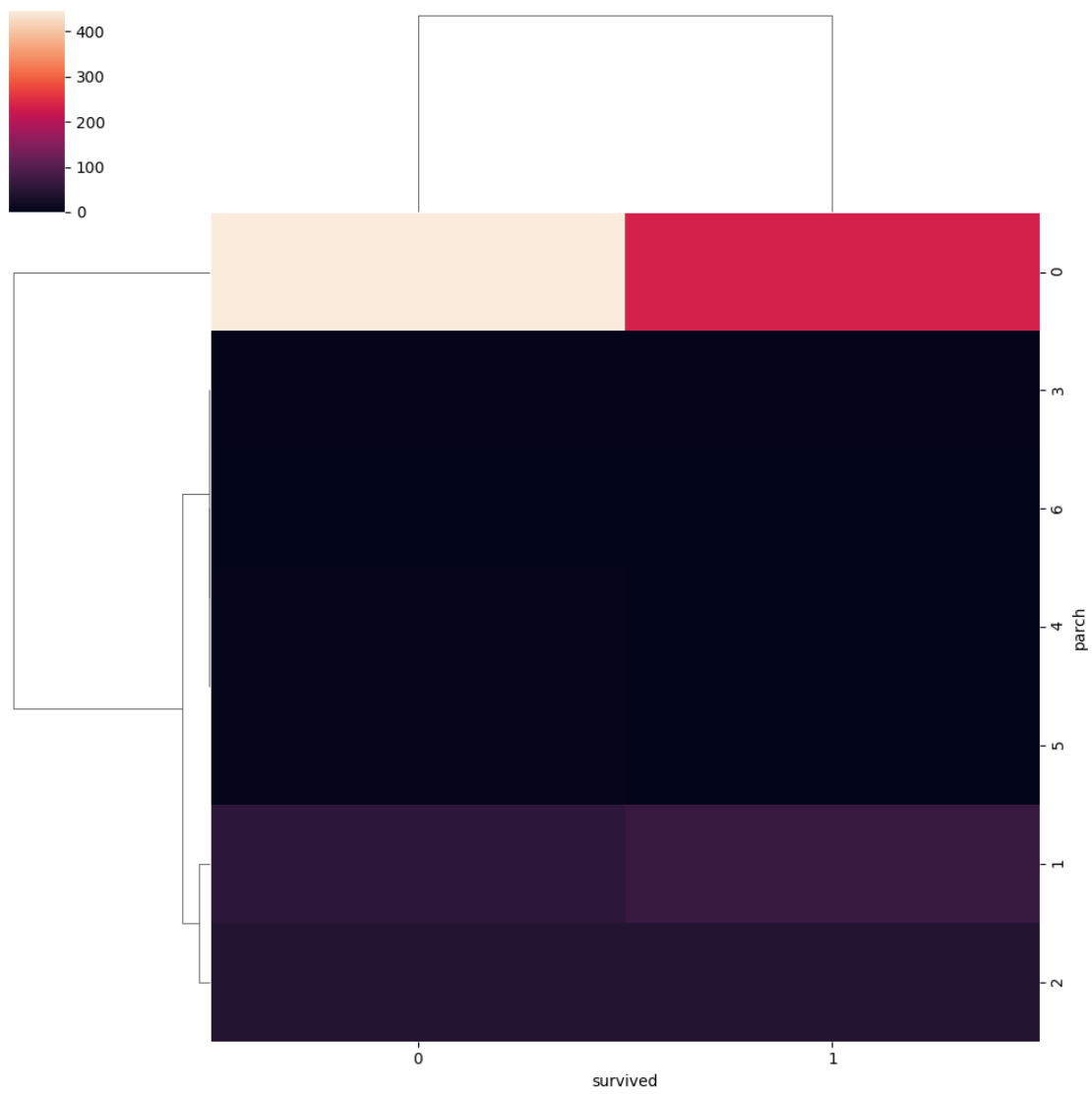
```
[23]: survived    0    1
      pclass
      1         80  136
      2         97   87
      3        372  119
```

```
[24]: sns.heatmap(pd.crosstab(data['pclass'],data['survived']))
```

```
[24]: <Axes: xlabel='survived', ylabel='pclass'>
```



```
[25]: sns.clustermap(pd.crosstab(data['parch'],data['survived']))  
plt.show()
```



[]: