

Madhur Jaripatke

Roll No. 48

TE A Computer

RMDSSOE, Warje, Pune

Data Visualization II

1. Use the inbuilt dataset 'titanic' as used in the above problem. Plot a box plot for distribution of age with respect to each gender along with the information about whether they survived or not. (Column names : 'sex' and 'age')
2. Write observations on the inference from the above statistics.

Importing Libraries

```
In [1]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

Load the dataset

```
In [3]: titanic = sns.load_dataset('titanic')
titanic.head()
```

```
Out[3]:
```

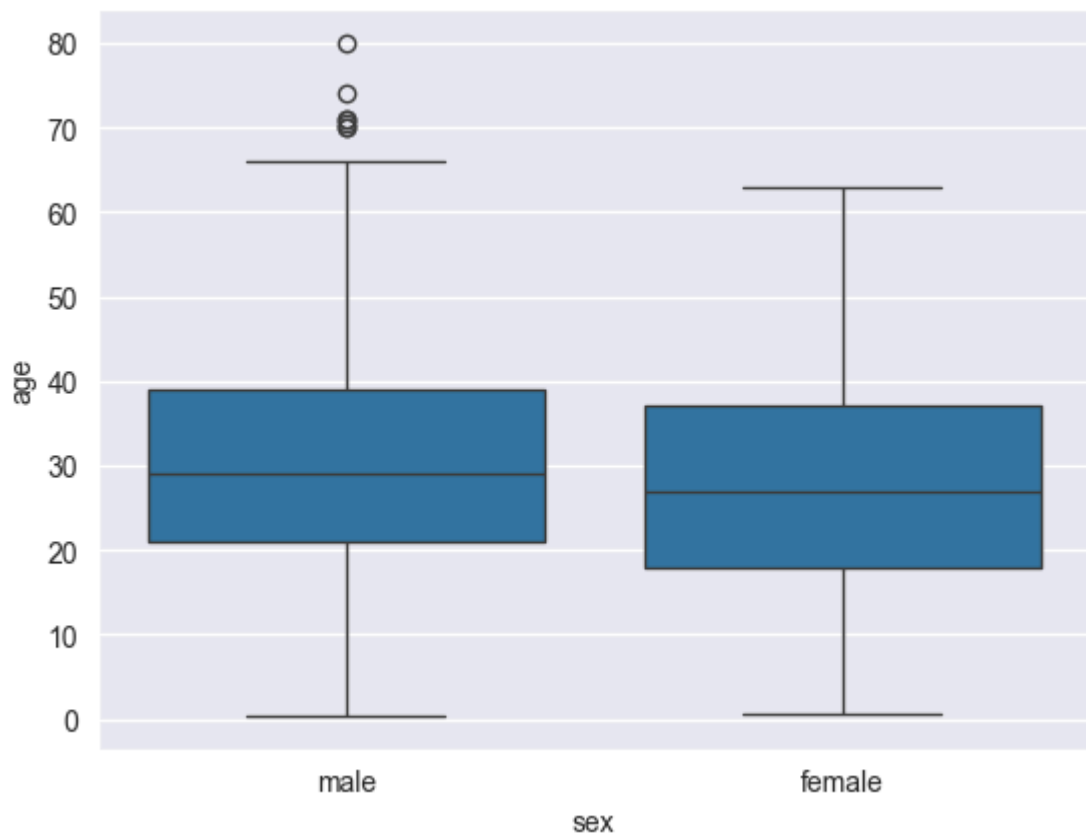
	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adul
0	0	3	male	22.0	1	0	7.2500	S	Third	man	
1	1	1	female	38.0	1	0	71.2833	C	First	woman	
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	
3	1	1	female	35.0	1	0	53.1000	S	First	woman	
4	0	3	male	35.0	0	0	8.0500	S	Third	man	



Box Plot

```
In [4]: sns.boxplot(x = 'sex', y = 'age', data = titanic)
```

```
Out[4]: <Axes: xlabel='sex', ylabel='age'>
```



```
In [5]: sns.boxplot(x = 'sex', y = 'age', data = titanic, hue = 'survived')
```

```
Out[5]: <Axes: xlabel='sex', ylabel='age'>
```

