```python
import pandas as pd
import numpy as np

import matplotlib.pyplot as plt
import seaborn as sns

dataset = sns.load_dataset('titanic')

print(dataset)
```

```
     survived  pclass     sex   age  sibsp  parch      fare embarked
class  \
0           0       3    male  22.0      1      0    7.2500        S
Third
1           1       1  female  38.0      1      0   71.2833        C
First
2           1       3  female  26.0      0      0    7.9250        S
Third
3           1       1  female  35.0      1      0   53.1000        S
First
4           0       3    male  35.0      0      0    8.0500        S
Third
..        ...     ...     ...   ...    ...    ...       ...      ...
...
886         0       2    male  27.0      0      0   13.0000        S
Second
887         1       1  female  19.0      0      0   30.0000        S
First
888         0       3  female   NaN      1      2   23.4500        S
Third
889         1       1    male  26.0      0      0   30.0000        C
First
890         0       3    male  32.0      0      0    7.7500        Q
Third

       who  adult_male deck  embark_town alive  alone
0      man        True  NaN  Southampton    no  False
1    woman       False    C    Cherbourg   yes  False
2    woman       False  NaN  Southampton   yes   True
3    woman       False    C  Southampton   yes  False
4      man        True  NaN  Southampton    no   True
..     ...         ...  ...          ...   ...    ...
886    man        True  NaN  Southampton    no   True
887  woman       False    B  Southampton   yes   True
888  woman       False  NaN  Southampton    no  False
889    man        True    C    Cherbourg   yes   True
890    man        True  NaN   Queenstown    no   True

[891 rows x 15 columns]
```
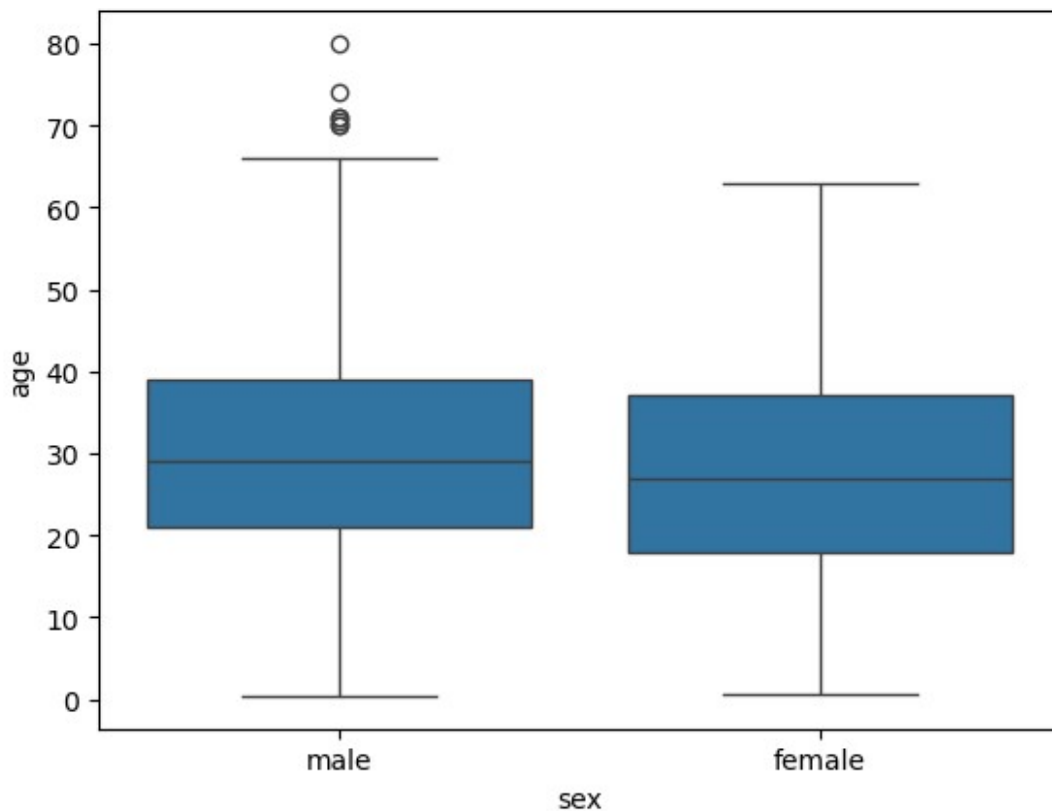
```
dataset.head()

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

     who  adult_male deck  embark_town alive  alone
0    man        True  NaN  Southampton    no  False
1  woman       False    C    Cherbourg   yes  False
2  woman       False  NaN  Southampton   yes   True
3  woman       False    C  Southampton   yes  False
4    man        True  NaN  Southampton    no   True
```
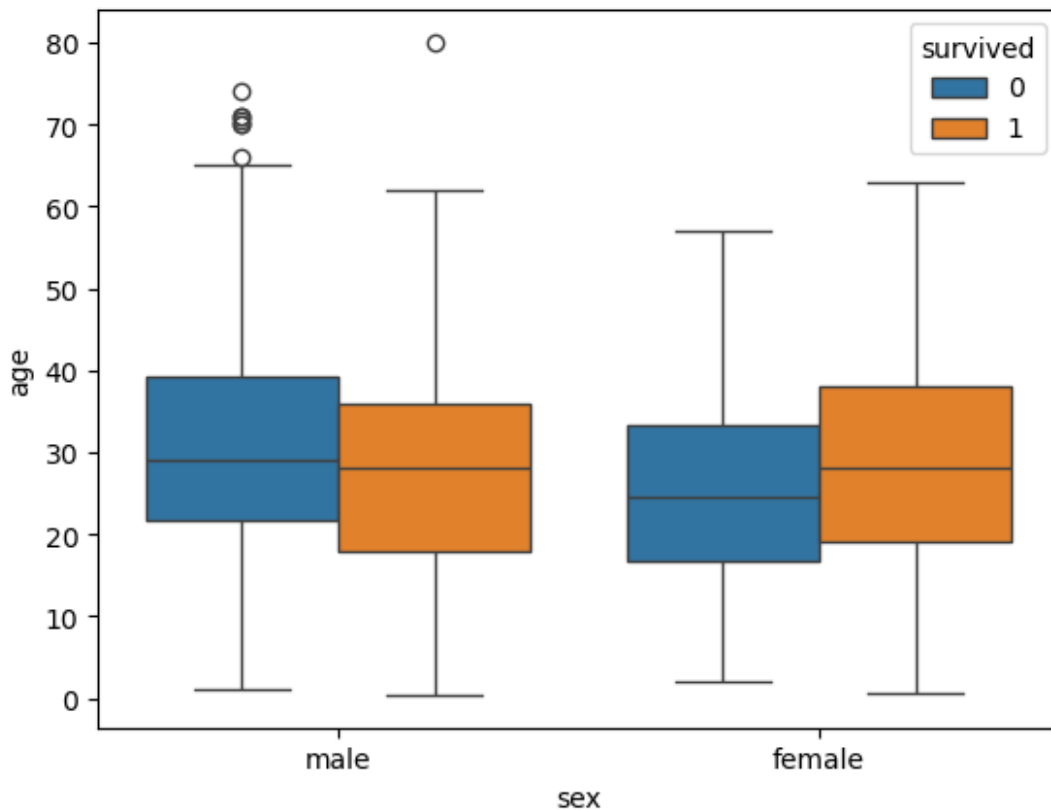
```python
sns.boxplot(x='sex', y='age',data=dataset)
```
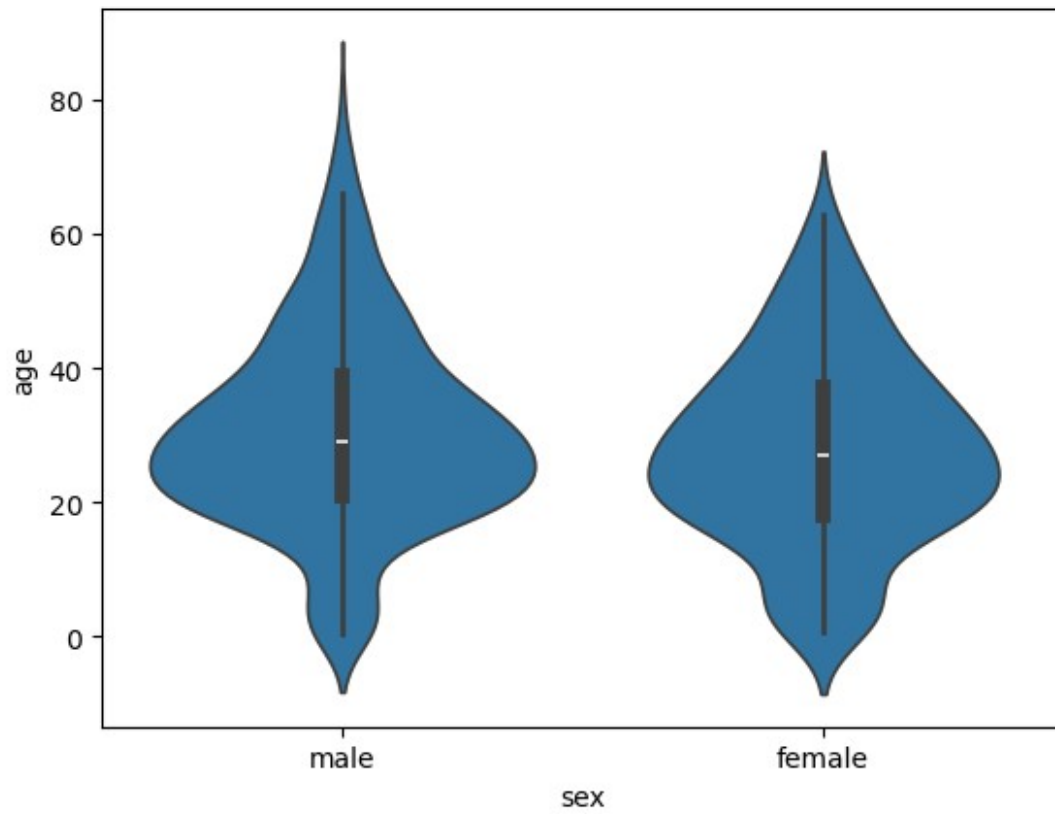
```
<Axes: xlabel='sex', ylabel='age'>
```

```
sns.boxplot(x='sex', y='age',hue='survived',data=dataset)
```

```
<Axes: xlabel='sex', ylabel='age'>
```



```
dataset.groupby("sex")["survived"].value_counts()
```

```
sex     survived
female  1           233
        0            81
male    0           468
        1           109
Name: count, dtype: int64
```

```
sns.violinplot(x='sex', y='age', data=dataset)
```

```
<Axes: xlabel='sex', ylabel='age'>
```

```
sns.violinplot(x='sex', y='age', data=dataset, hue='survived')
<Axes: xlabel='sex', ylabel='age'>
```