

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

```
In [6]: dataset = pd.read_csv("/home/student/Desktop/Titanic1.csv")
```

```
In [7]: dataset.head()
```

```
Out[7]:
```

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

```
In [8]: sns.distplot(dataset['fare'])
```

/tmp/ipykernel_4146/1694218074.py:1: UserWarning:

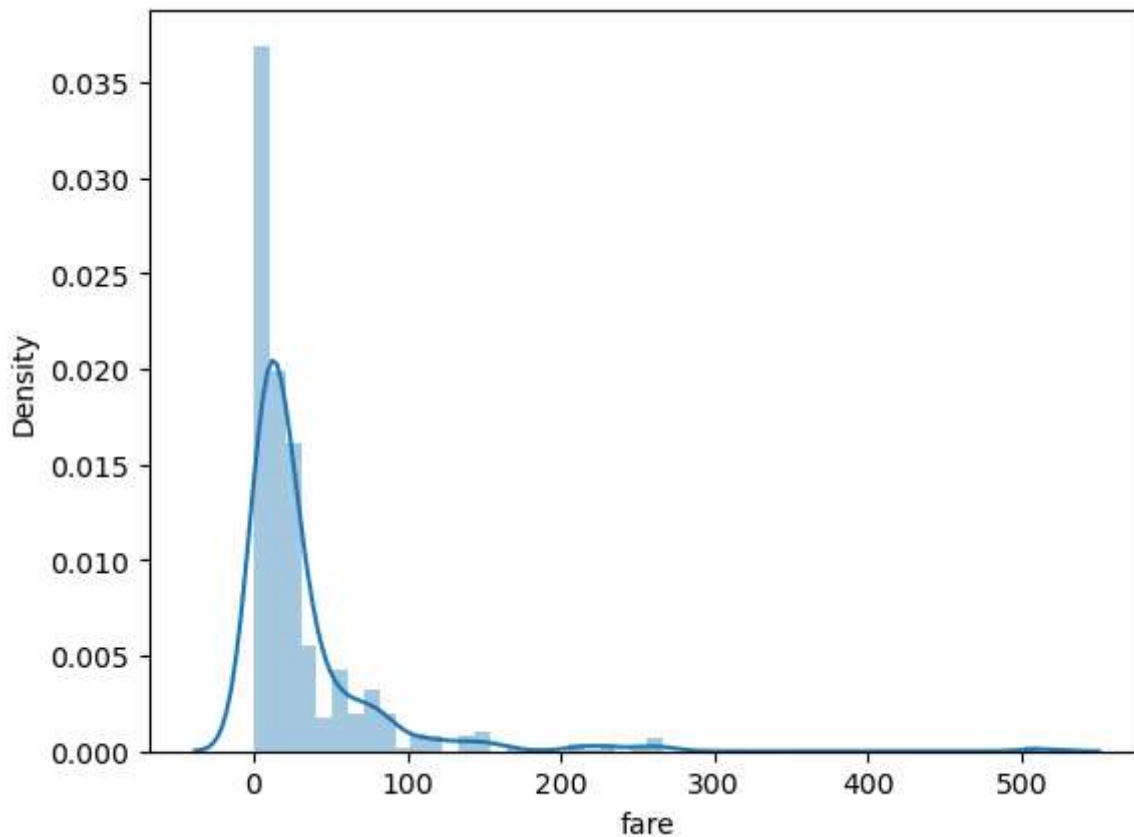
`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

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(dataset['fare'])
```

```
Out[8]: <Axes: xlabel='fare', ylabel='Density'>
```



```
In [10]: sns.distplot(dataset['fare'],kde=False,bins=10)
```

/tmp/ipykernel_4146/725043858.py:1: UserWarning:

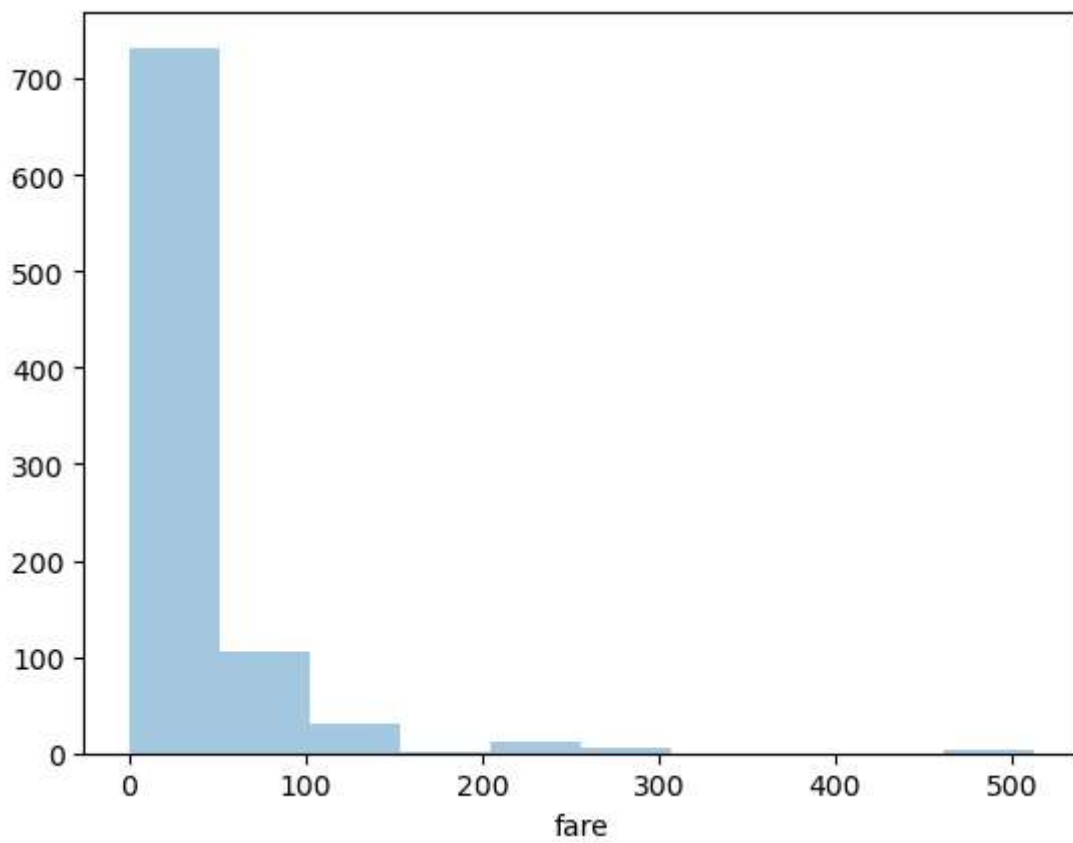
`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

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>

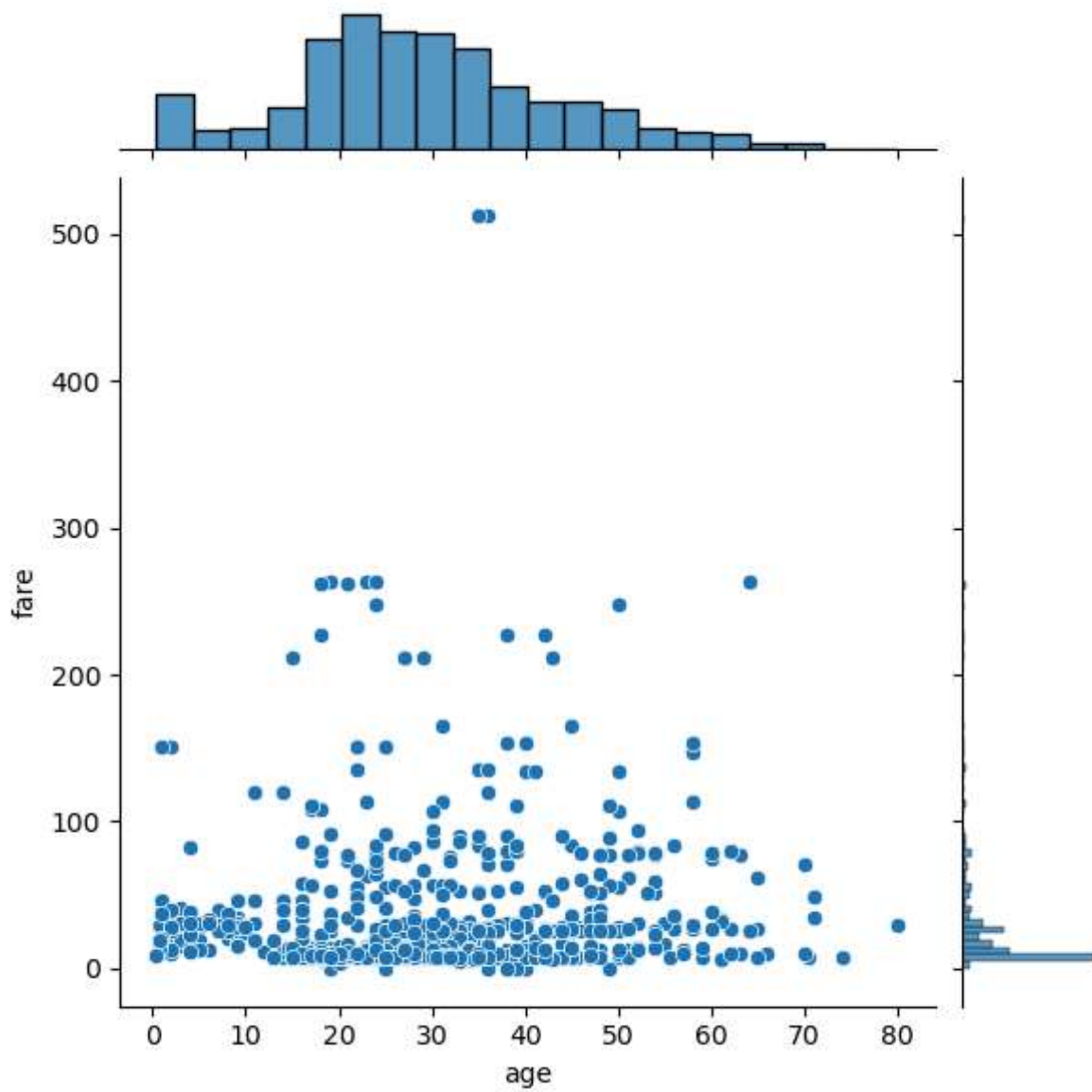
```
sns.distplot(dataset['fare'],kde=False,bins=10)
```

```
Out[10]: <Axes: xlabel='fare'>
```



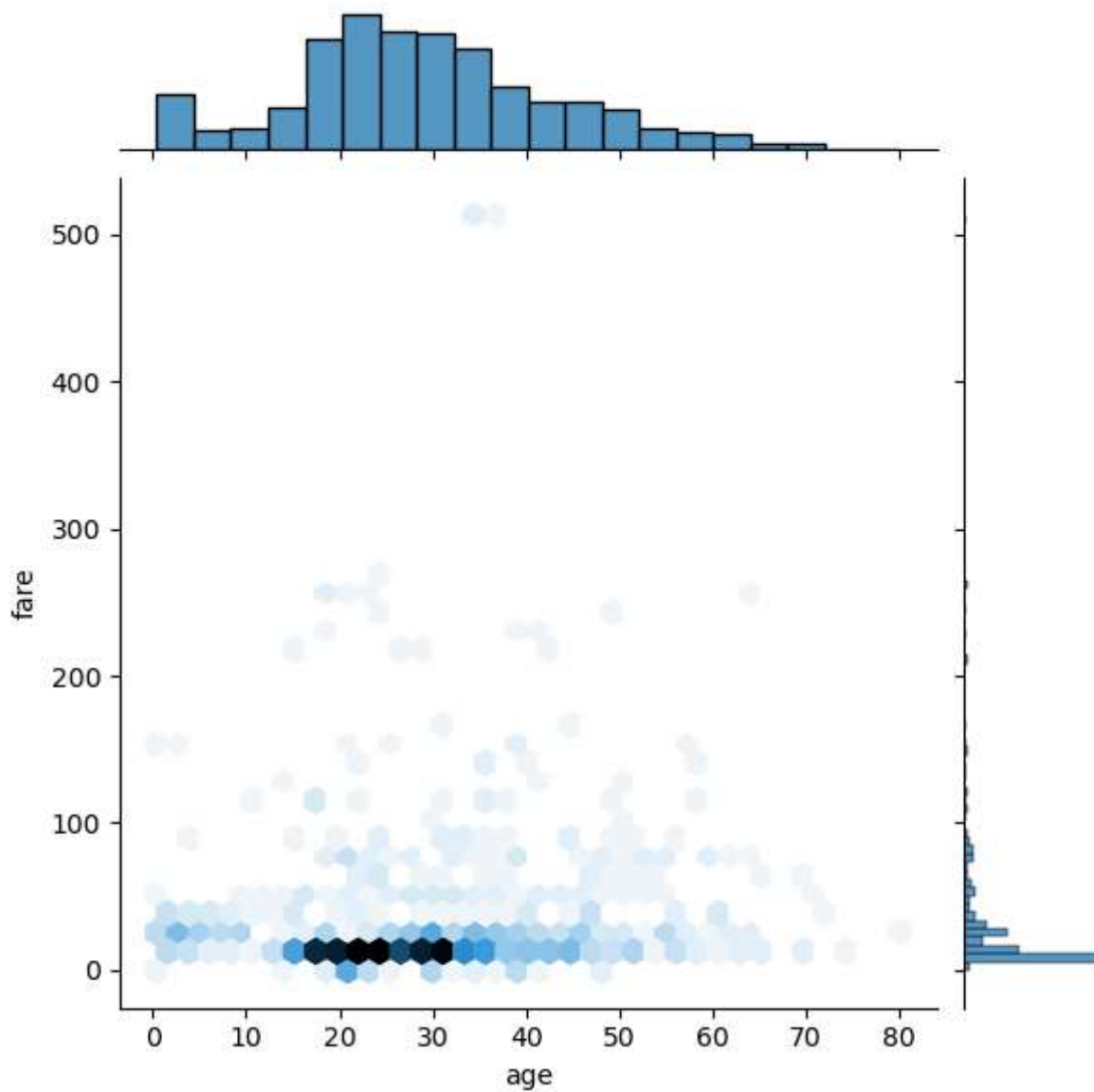
```
In [12]: sns.jointplot(x='age',y='fare',data=dataset)
```

```
Out[12]: <seaborn.axisgrid.JointGrid at 0x7f0b530fc0a0>
```



```
In [13]: sns.jointplot(x='age',y='fare',data=dataset,kind='hex')
```

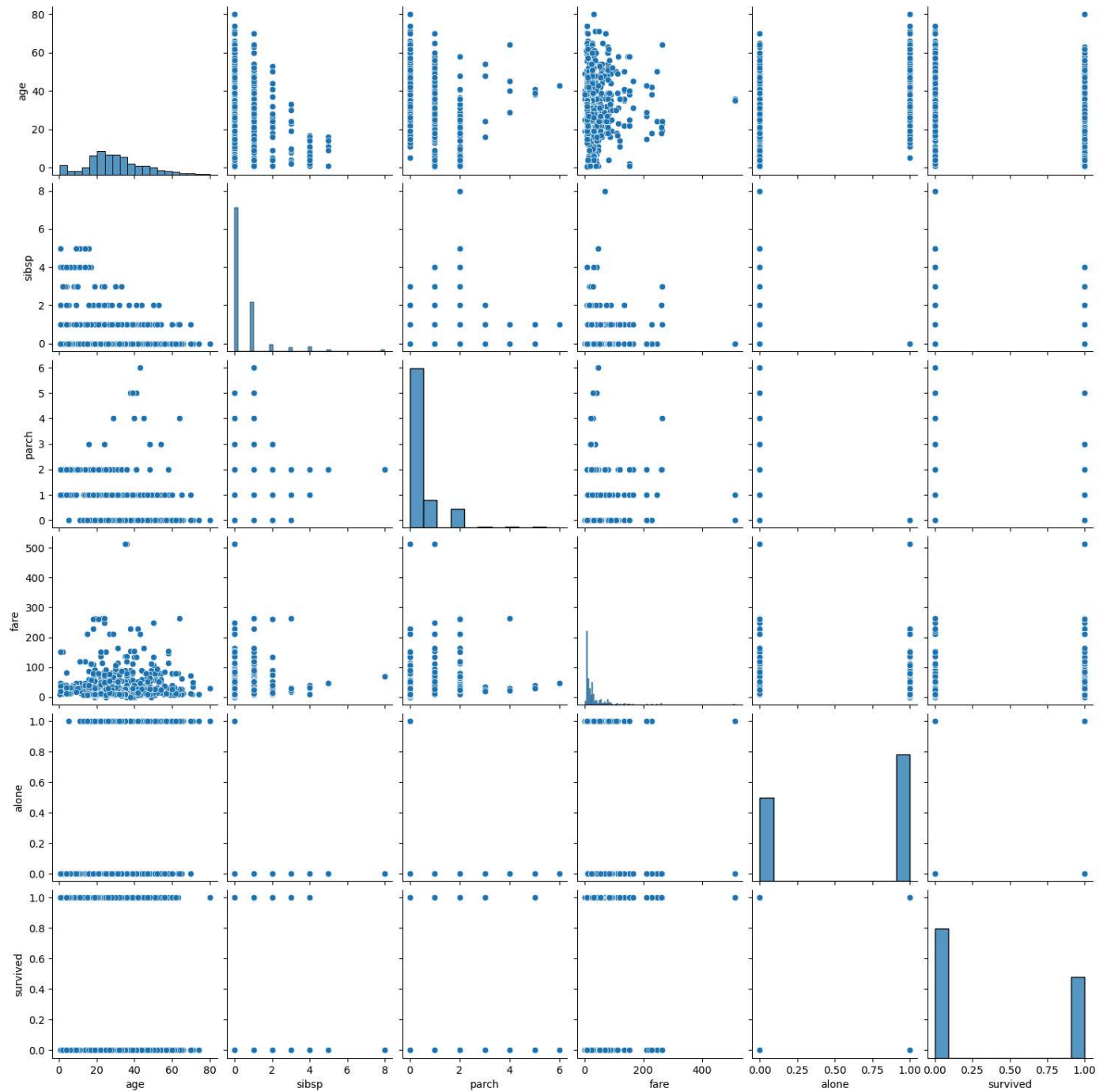
```
Out[13]: <seaborn.axisgrid.JointGrid at 0x7f0b50f18eb0>
```



```
In [14]: sns.pairplot(dataset)
```

```
<__array_function__ internals>:180: RuntimeWarning: Converting input from bool to <class 'numpy.uint8'> for compatibility.
```

```
Out[14]: <seaborn.axisgrid.PairGrid at 0x7f0b50fb8670>
```



```
In [15]: dataset=dataset.dropna()
```

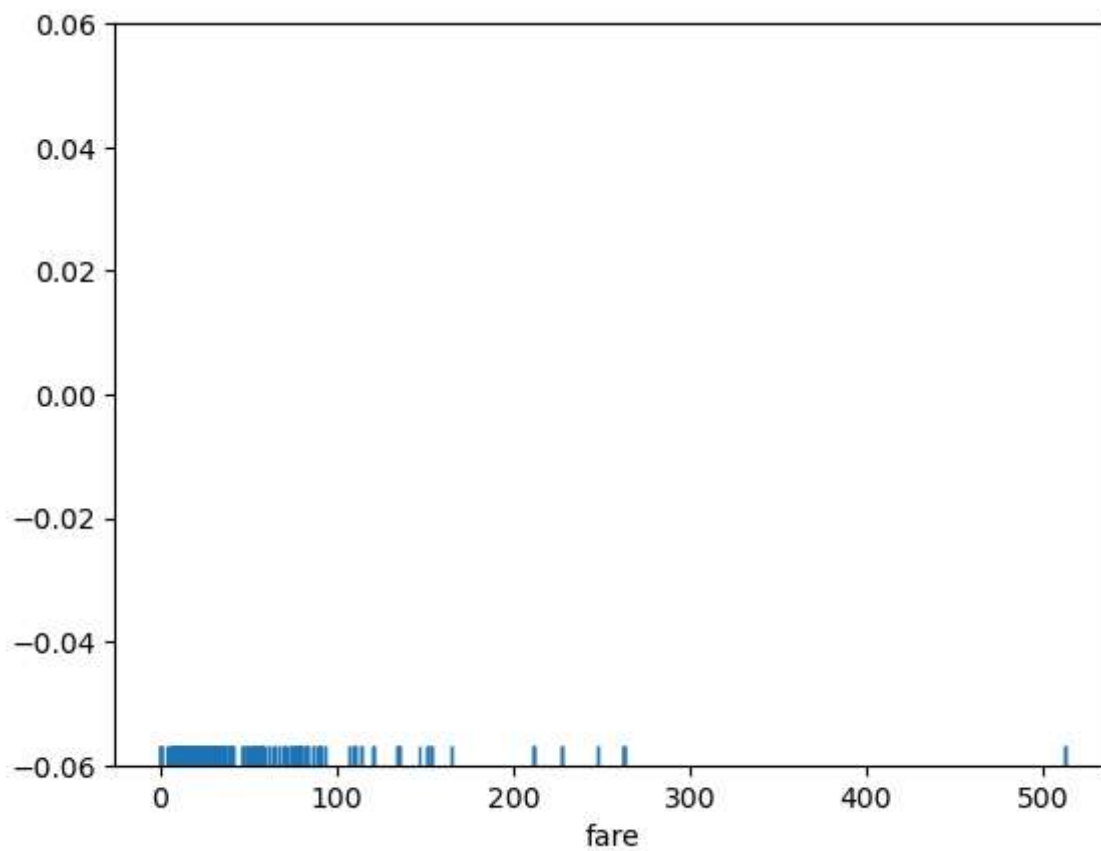
```
In [16]: sns.pairplot(dataset,hue='sex')
```

```
Out[16]: <seaborn.axisgrid.PairGrid at 0x7f0b530febc0>
```



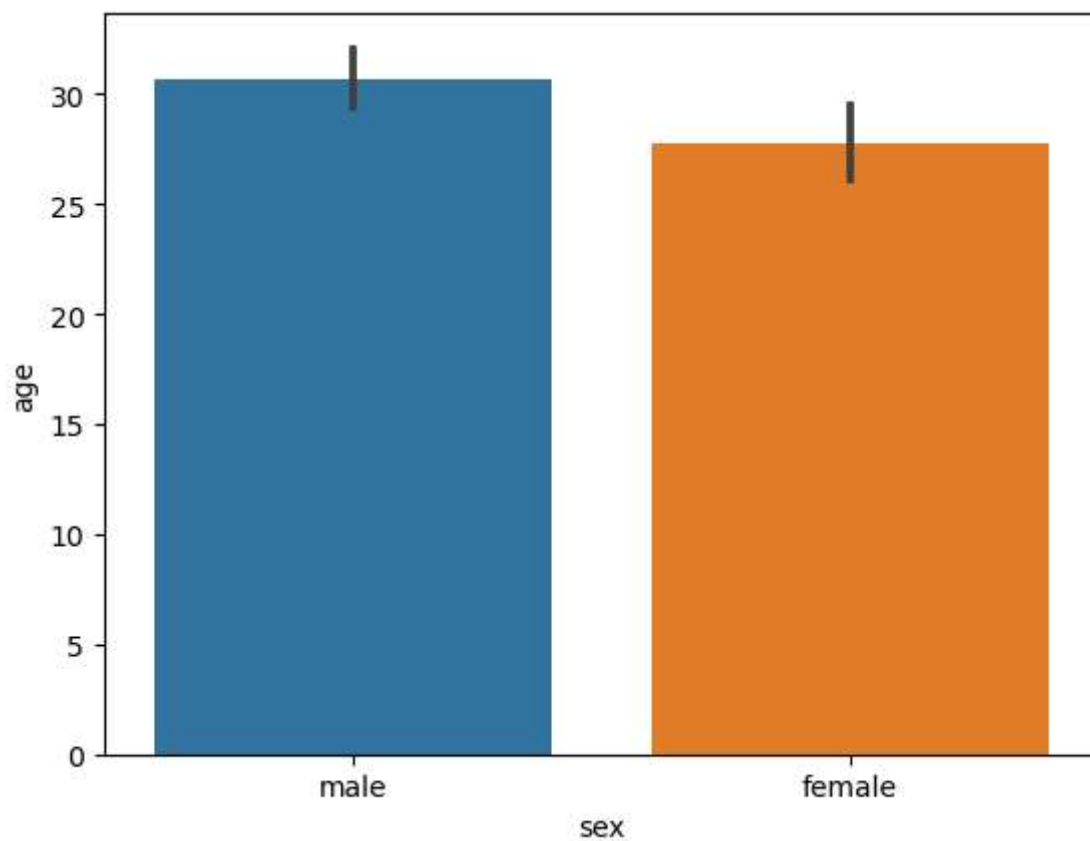
```
In [17]: sns.rugplot(dataset['fare'])
```

```
Out[17]: <Axes: xlabel='fare'>
```



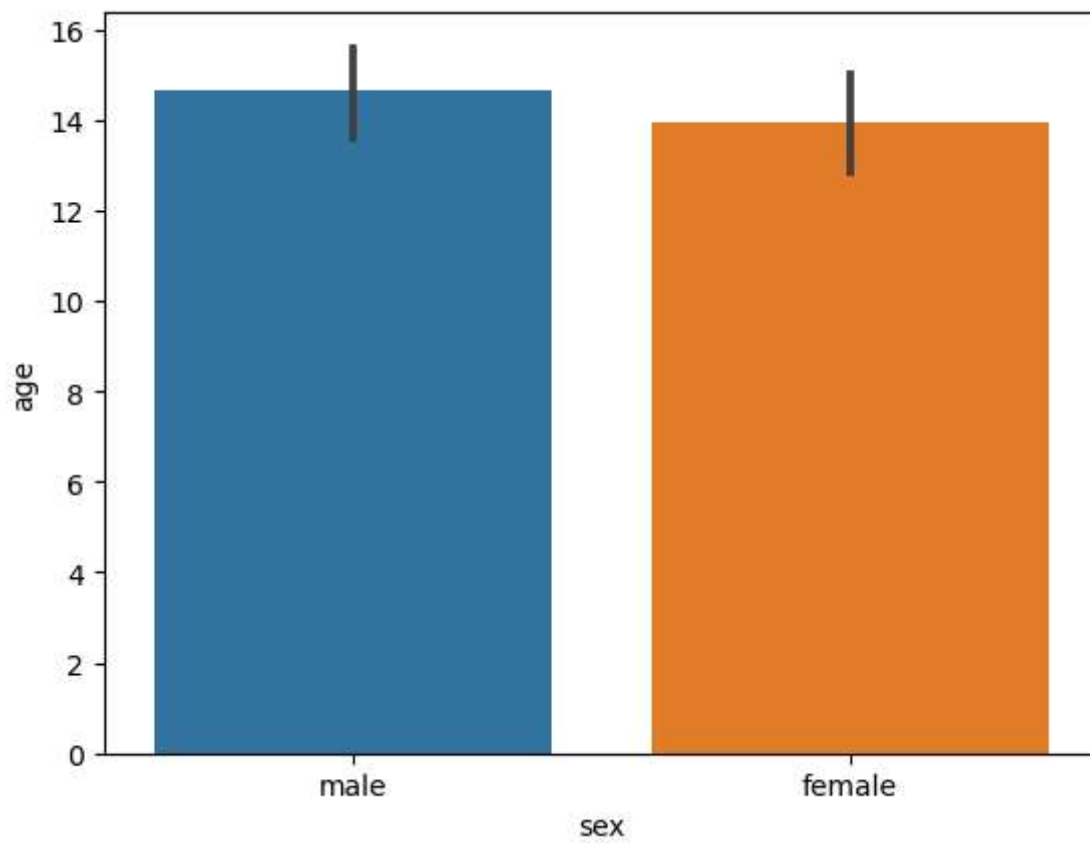
```
In [18]: sns.barplot(x='sex',y='age',data=dataset)
```

```
Out[18]: <Axes: xlabel='sex', ylabel='age'>
```



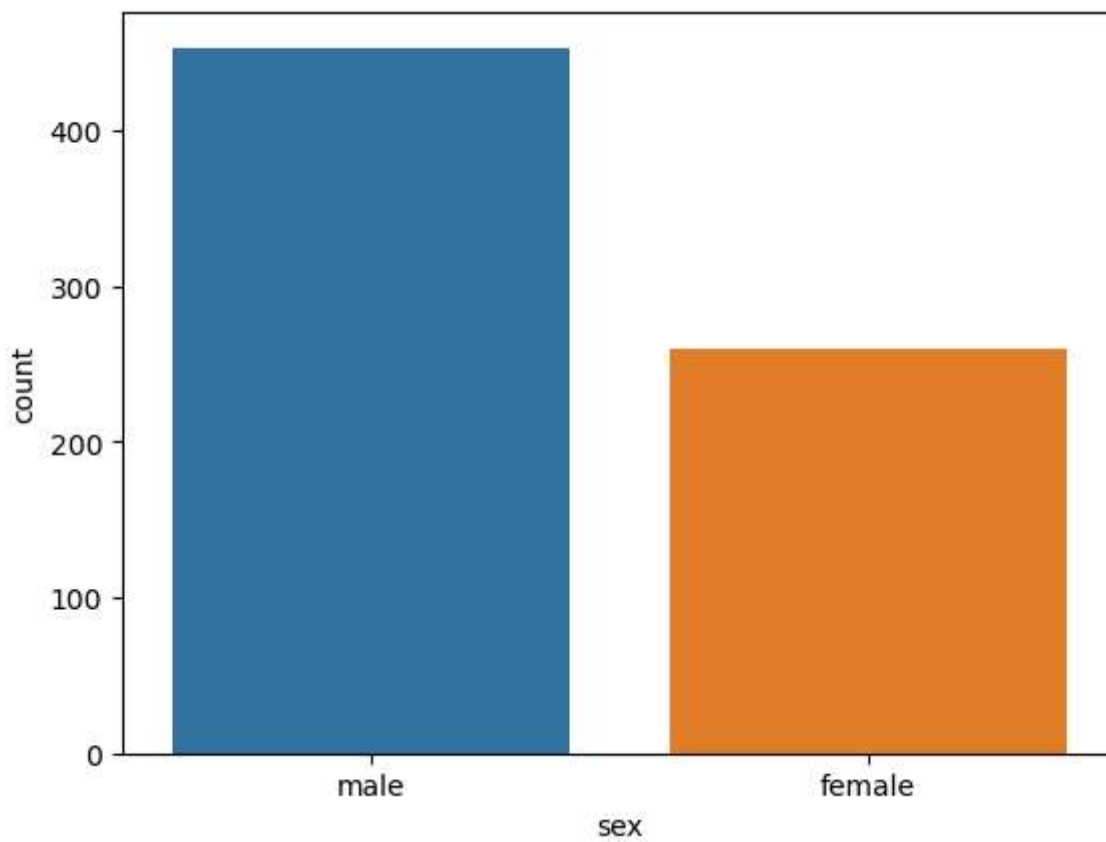
```
In [19]: sns.barplot(x='sex',y='age',data=dataset,estimator=np.std)
```

```
Out[19]: <Axes: xlabel='sex', ylabel='age'>
```

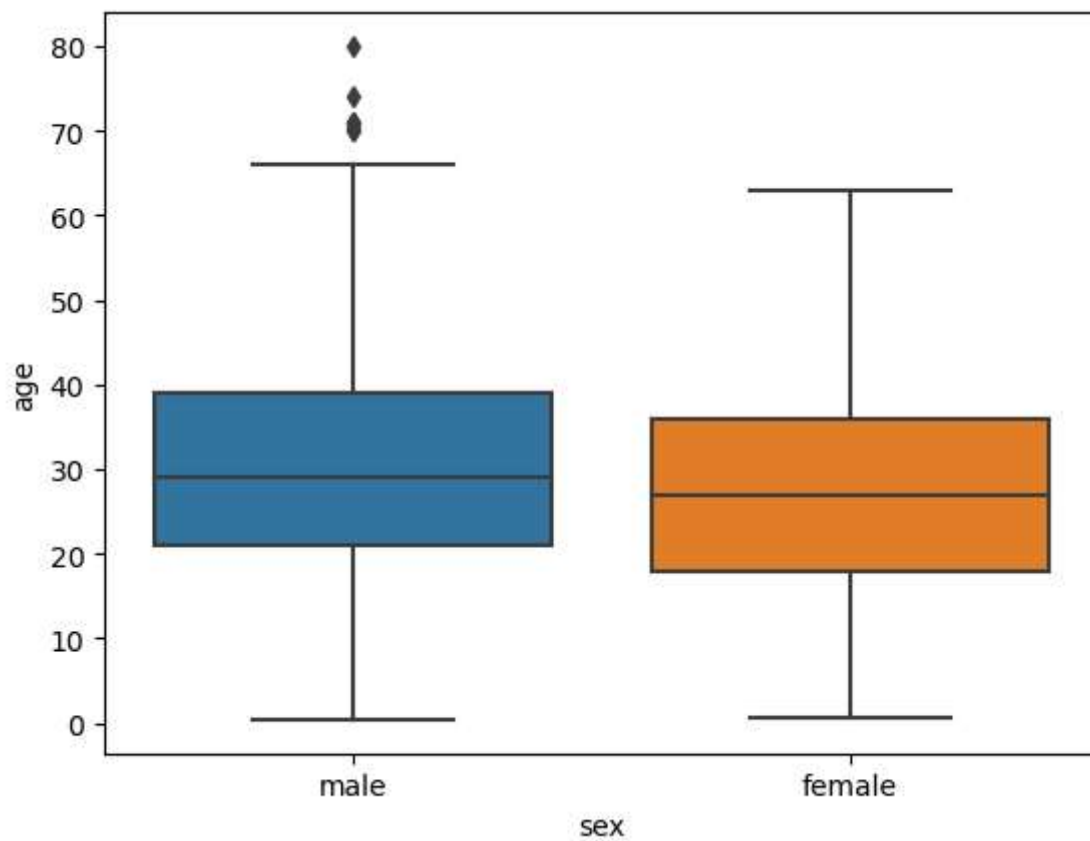
```
In [22]: sns.countplot(x='sex',data=dataset)
```

```
Out[22]: <Axes: xlabel='sex', ylabel='count'>
```



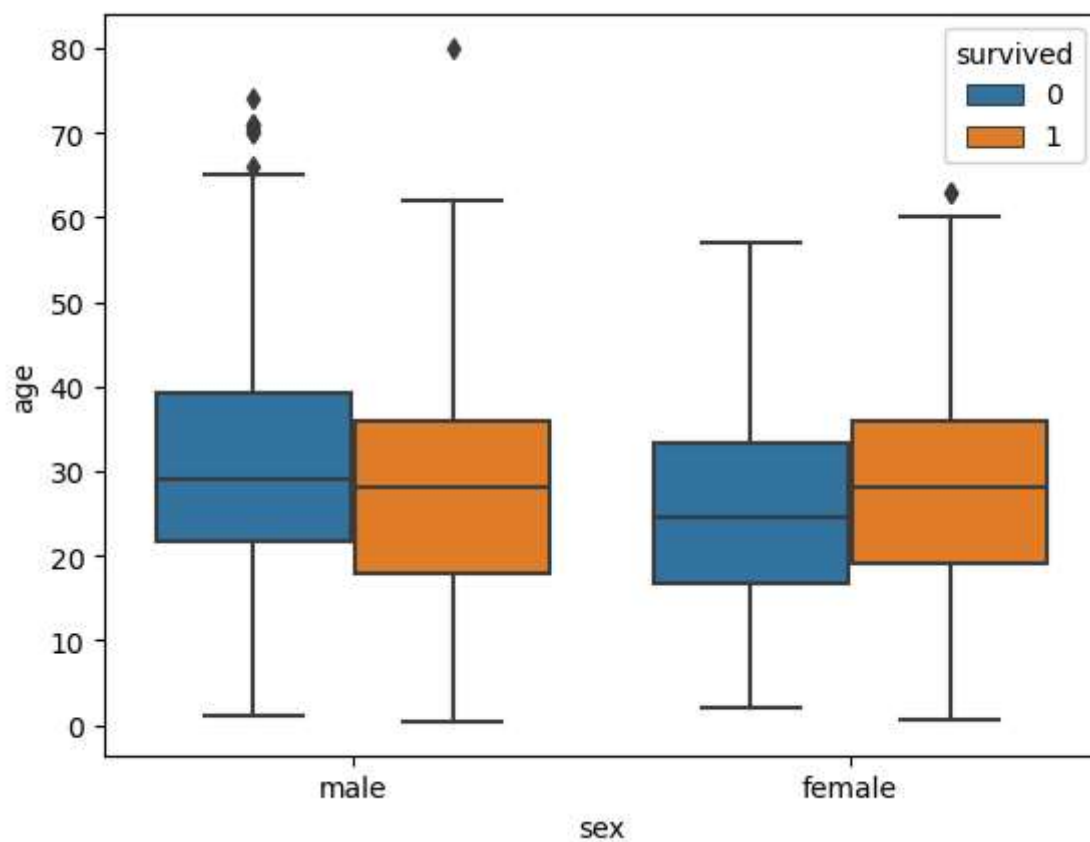
```
In [23]: sns.boxplot(x='sex',y='age',data=dataset)
```

```
Out[23]: <Axes: xlabel='sex', ylabel='age'>
```



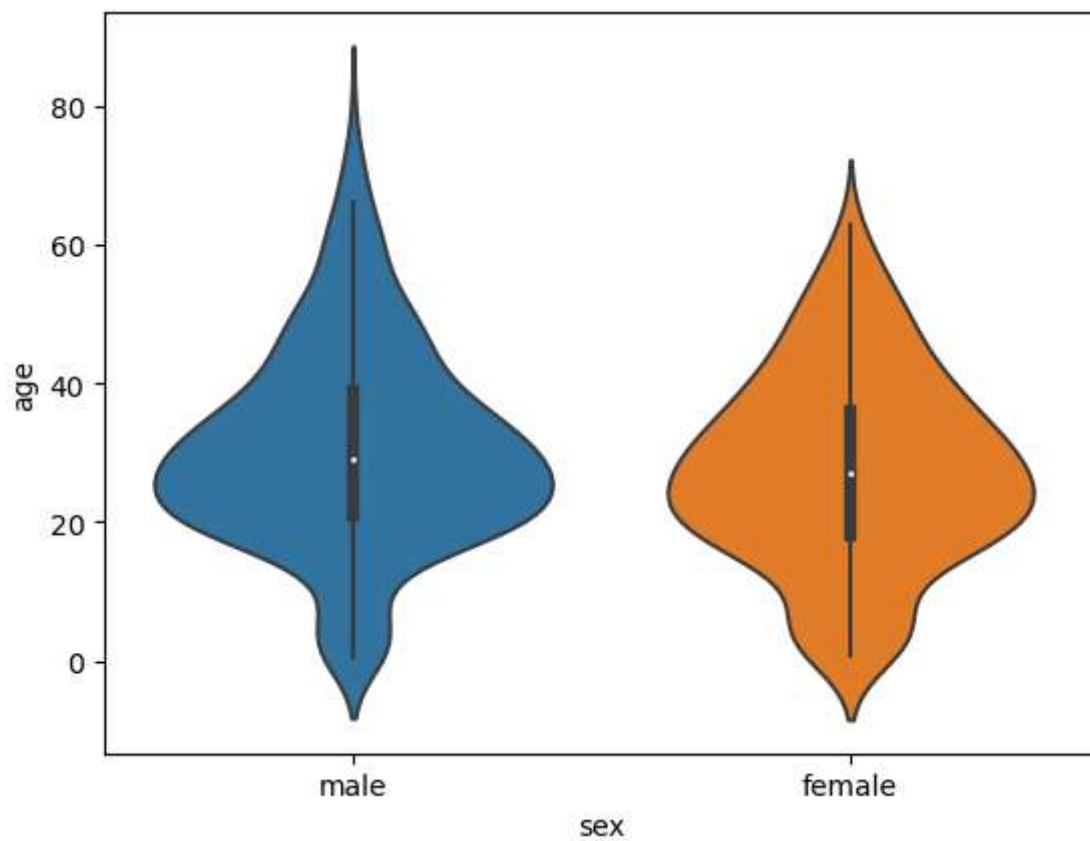
```
In [25]: sns.boxplot(x='sex',y='age',data=dataset,hue='survived')
```

```
Out[25]: <Axes: xlabel='sex', ylabel='age'>
```



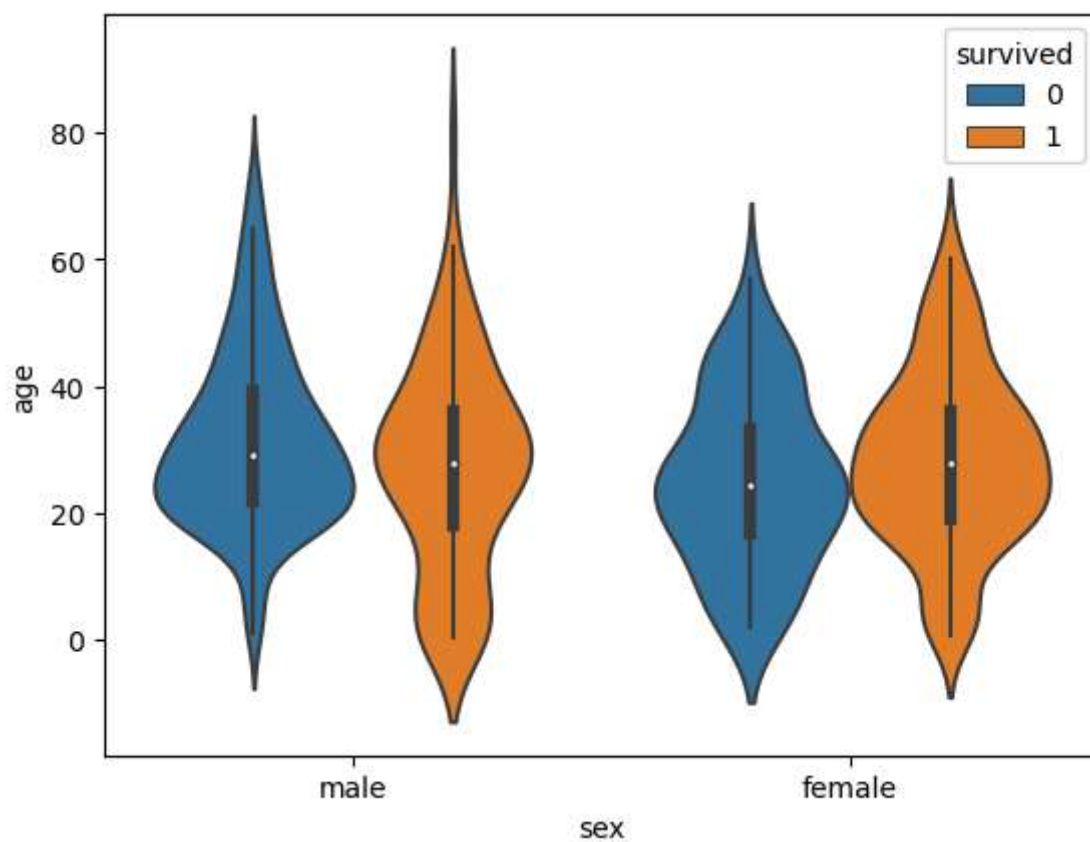
```
In [26]: sns.violinplot(x='sex', y='age', data=dataset)
```

```
Out[26]: <Axes: xlabel='sex', ylabel='age'>
```



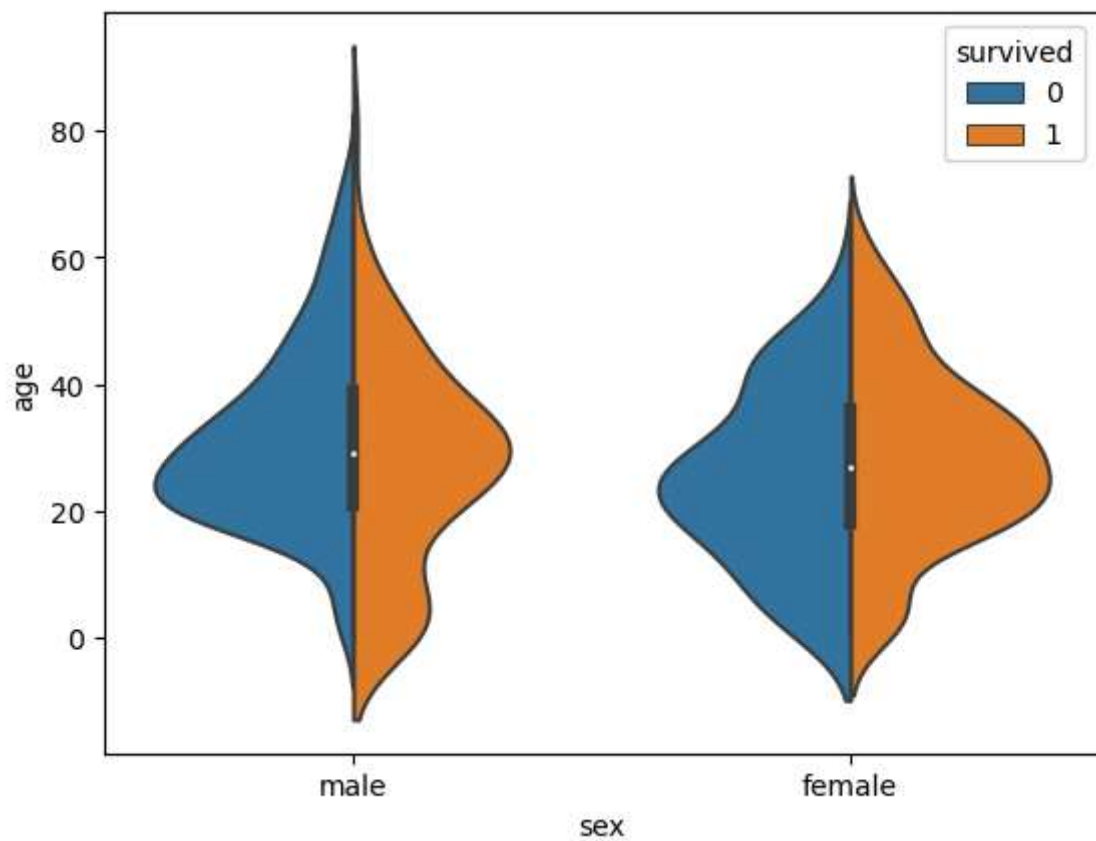
```
In [27]: sns.violinplot(x='sex', y='age', data=dataset, hue='survived')
```

```
Out[27]: <Axes: xlabel='sex', ylabel='age'>
```



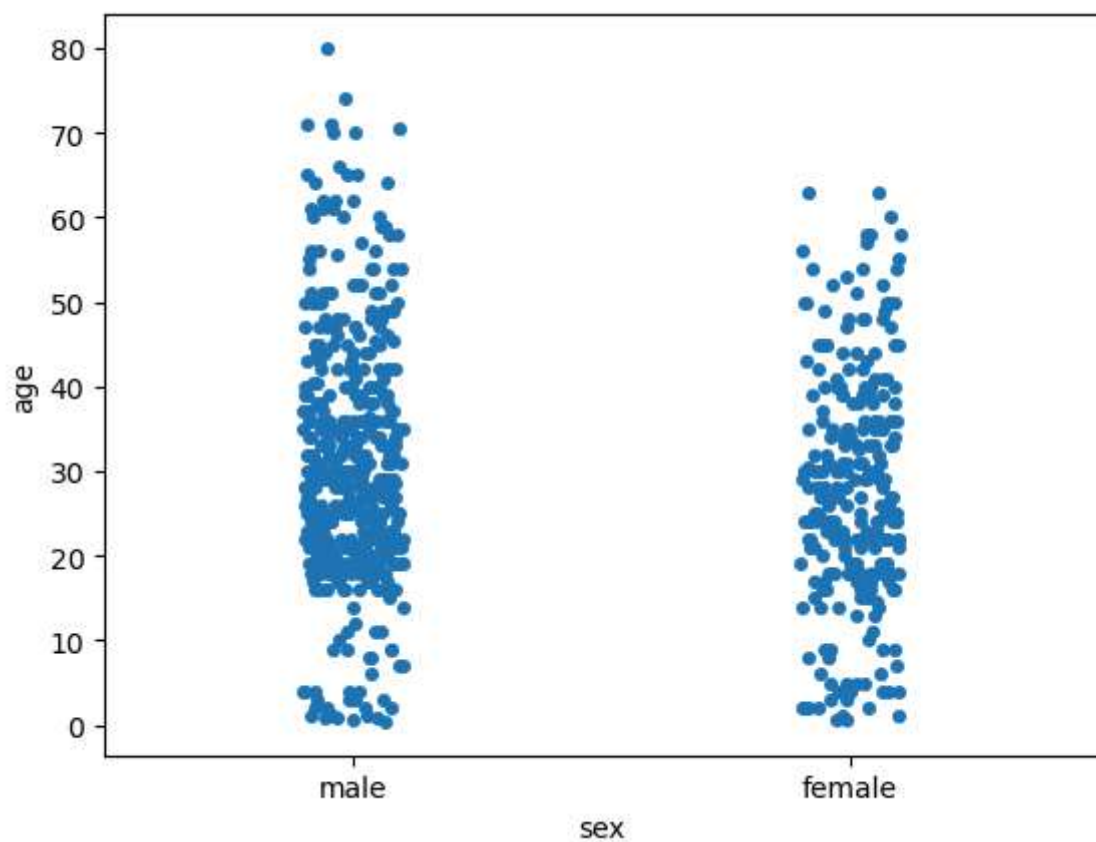
```
In [28]: sns.violinplot(x='sex', y='age', data=dataset, hue='survived', split='True')
```

```
Out[28]: <Axes: xlabel='sex', ylabel='age'>
```



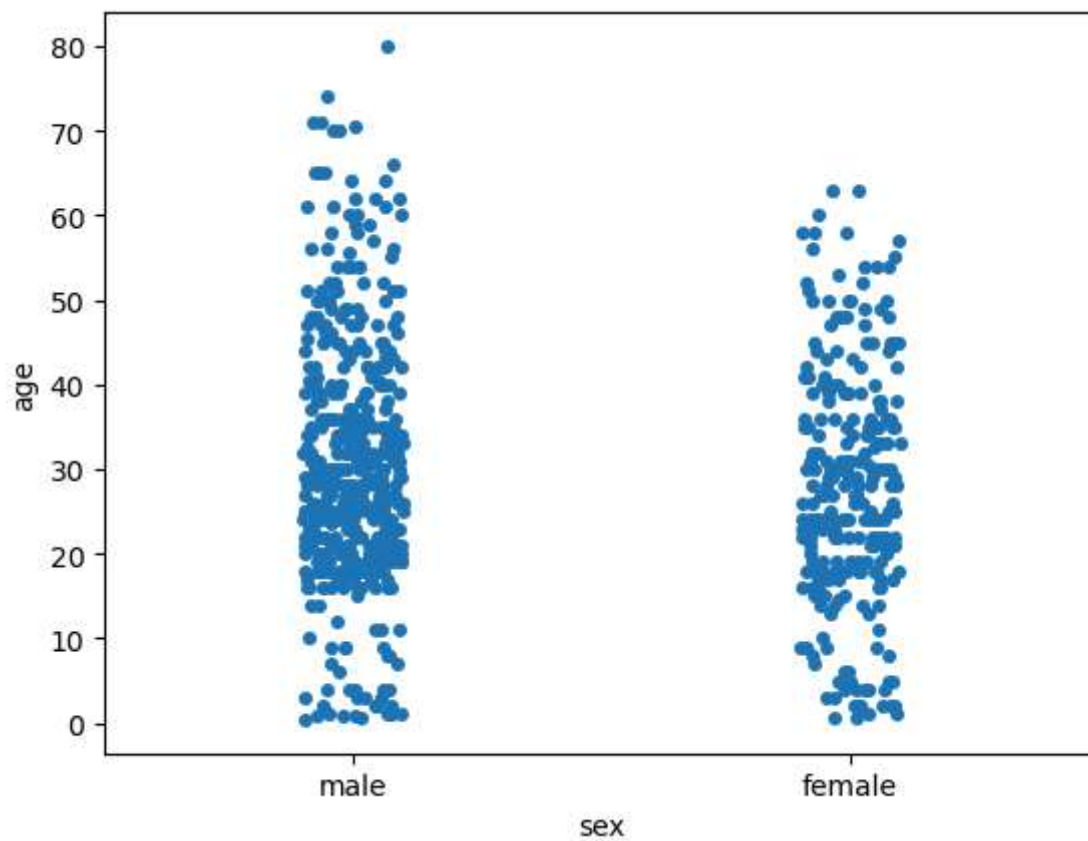
```
In [29]: sns.stripplot(x='sex', y='age', data=dataset)
```

```
Out[29]: <Axes: xlabel='sex', ylabel='age'>
```



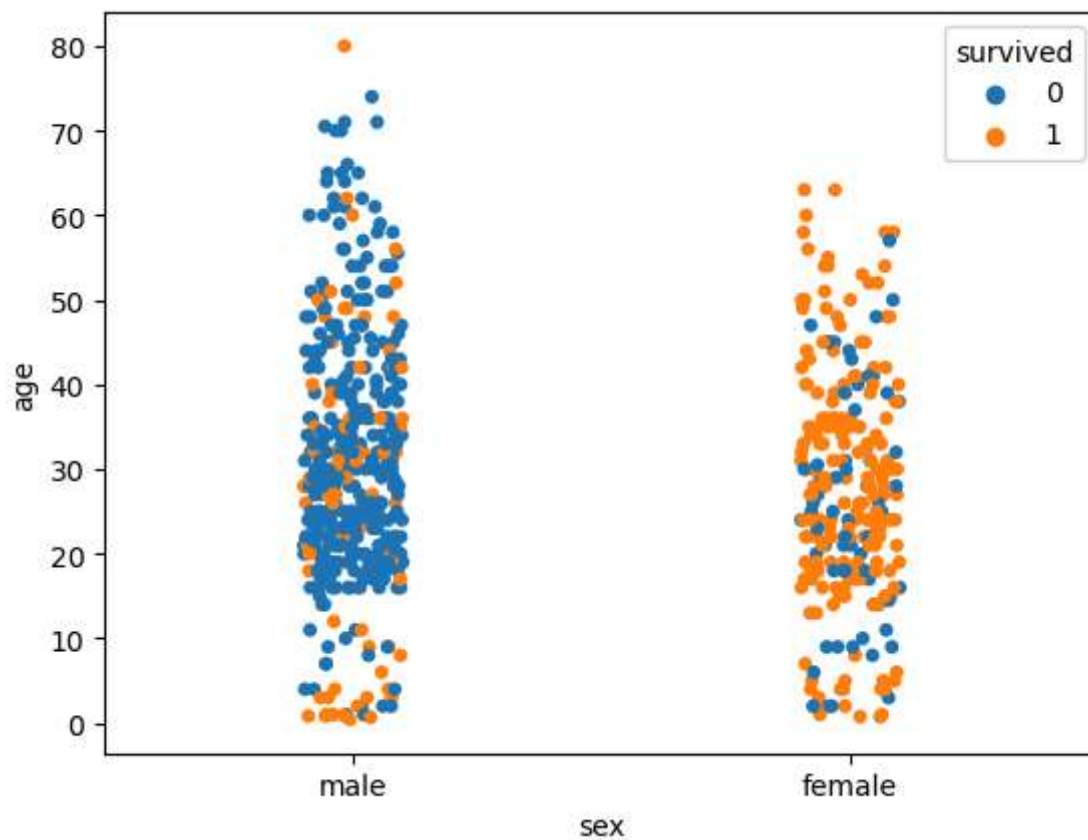
```
In [30]: sns.stripplot(x='sex', y='age', data=dataset, jitter=True)
```

```
Out[30]: <Axes: xlabel='sex', ylabel='age'>
```



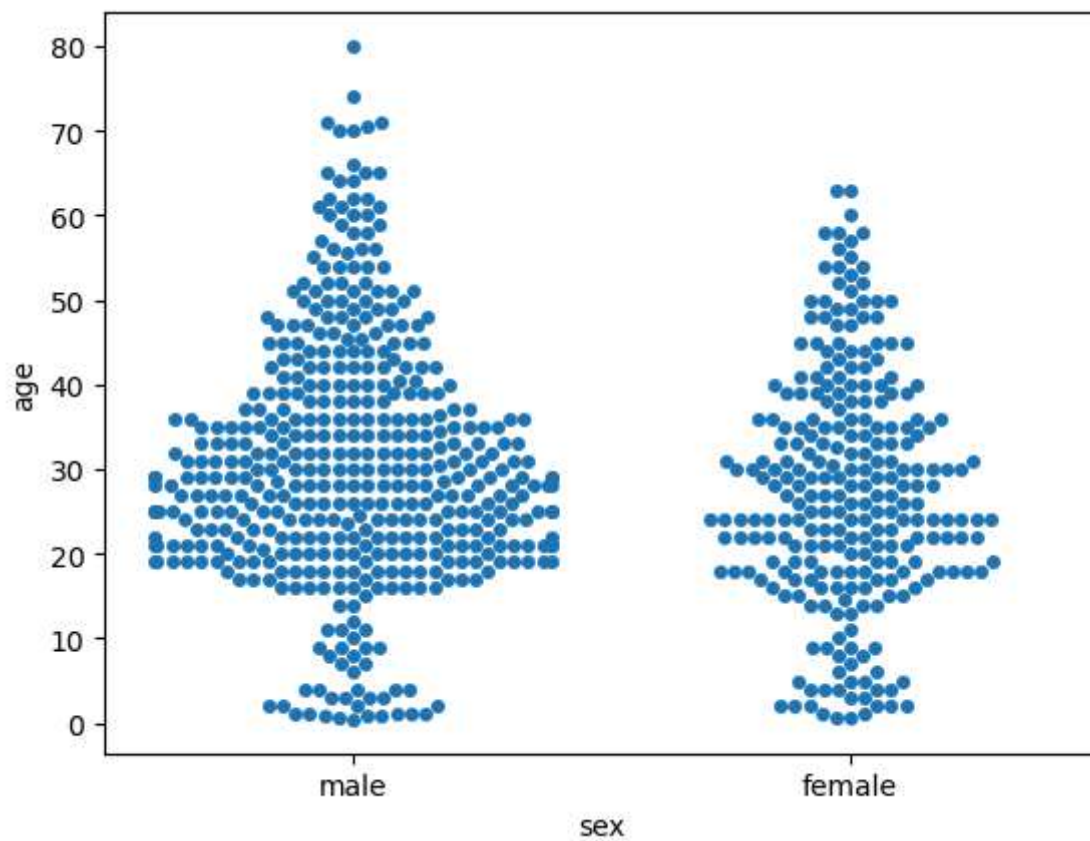
```
In [31]: sns.stripplot(x='sex', y='age', data=dataset, jitter=True, hue='survived')
```

```
Out[31]: <Axes: xlabel='sex', ylabel='age'>
```



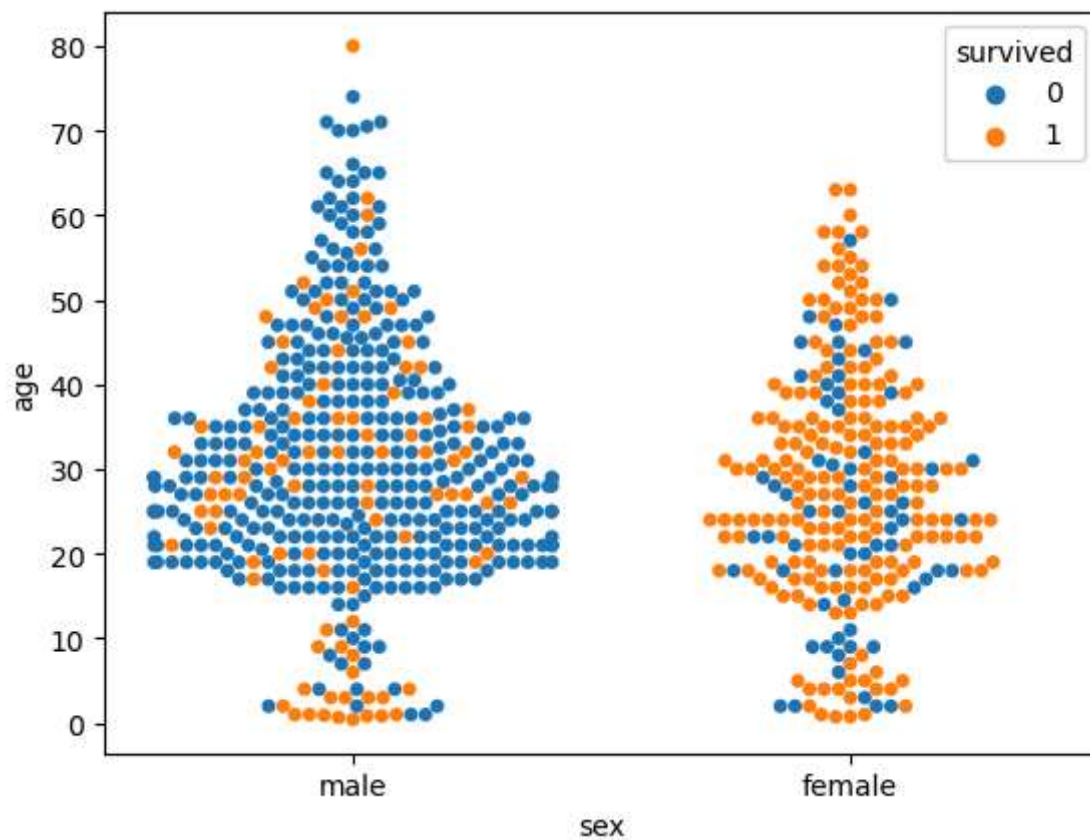
```
In [34]: sns.swarmplot(x='sex', y='age', data=dataset)
```

```
Out[34]: <Axes: xlabel='sex', ylabel='age'>
```



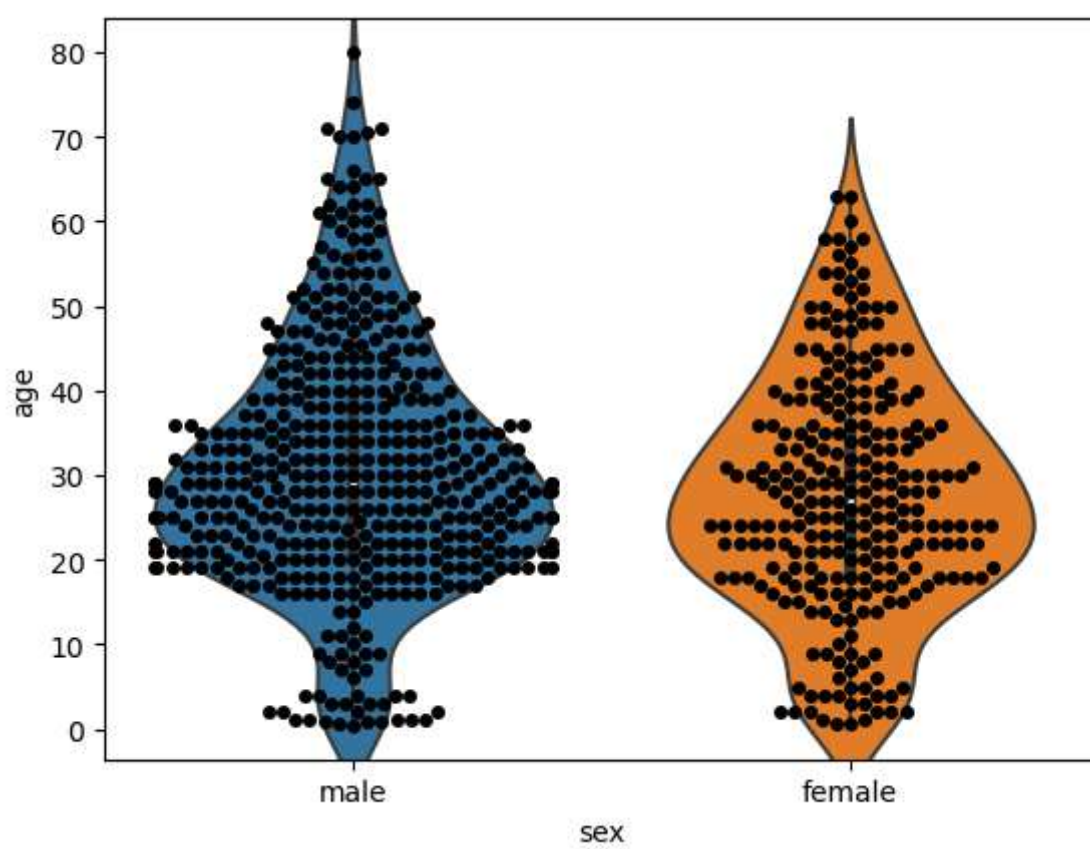
```
In [35]: sns.swarmplot(x='sex', y='age', data=dataset, hue='survived')
```

```
Out[35]: <Axes: xlabel='sex', ylabel='age'>
```



```
In [36]: sns.violinplot(x='sex', y='age', data=dataset)
sns.swarmplot(x='sex', y='age', data=dataset, color='black')
```

```
Out[36]: <Axes: xlabel='sex', ylabel='age'>
```



In []: