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

In [2]:
```
dataset=sns.load_dataset("titanic")
```

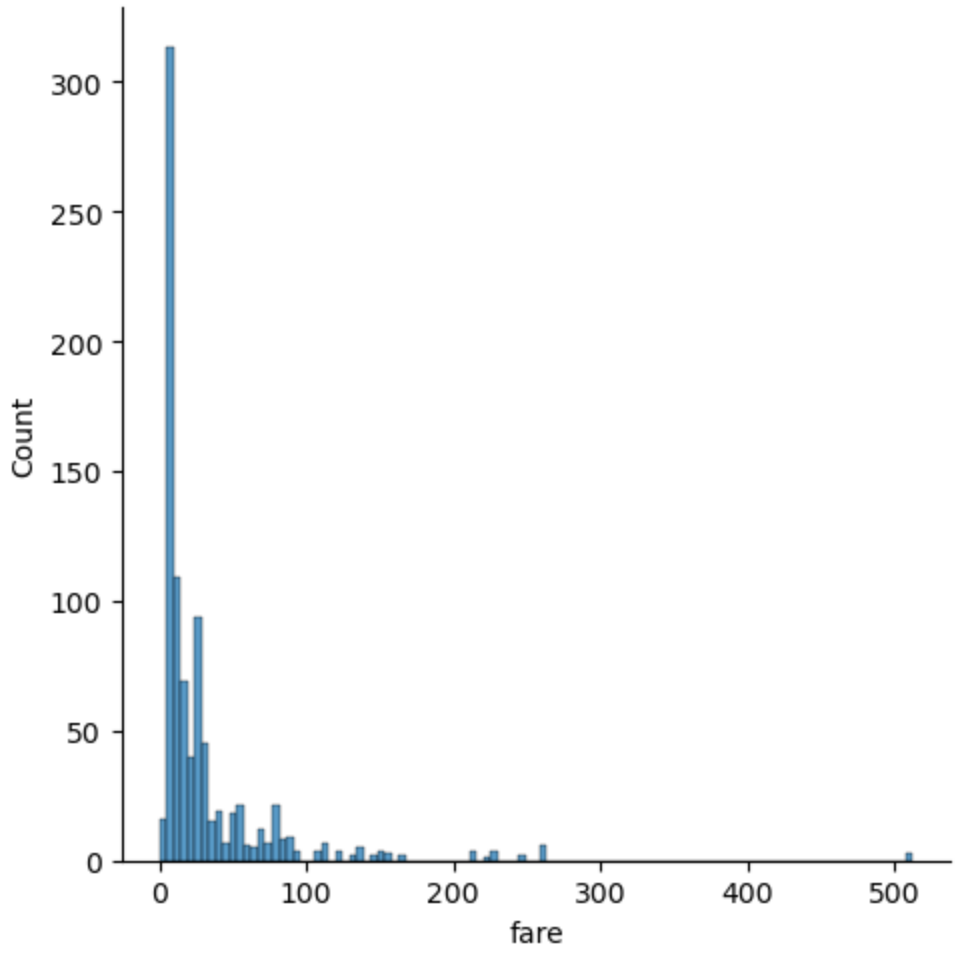
In [3]:
```
dataset.head()
```

Out[3]:

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

In [4]:
```
plt.show()
sns.displot(dataset['fare'])
```

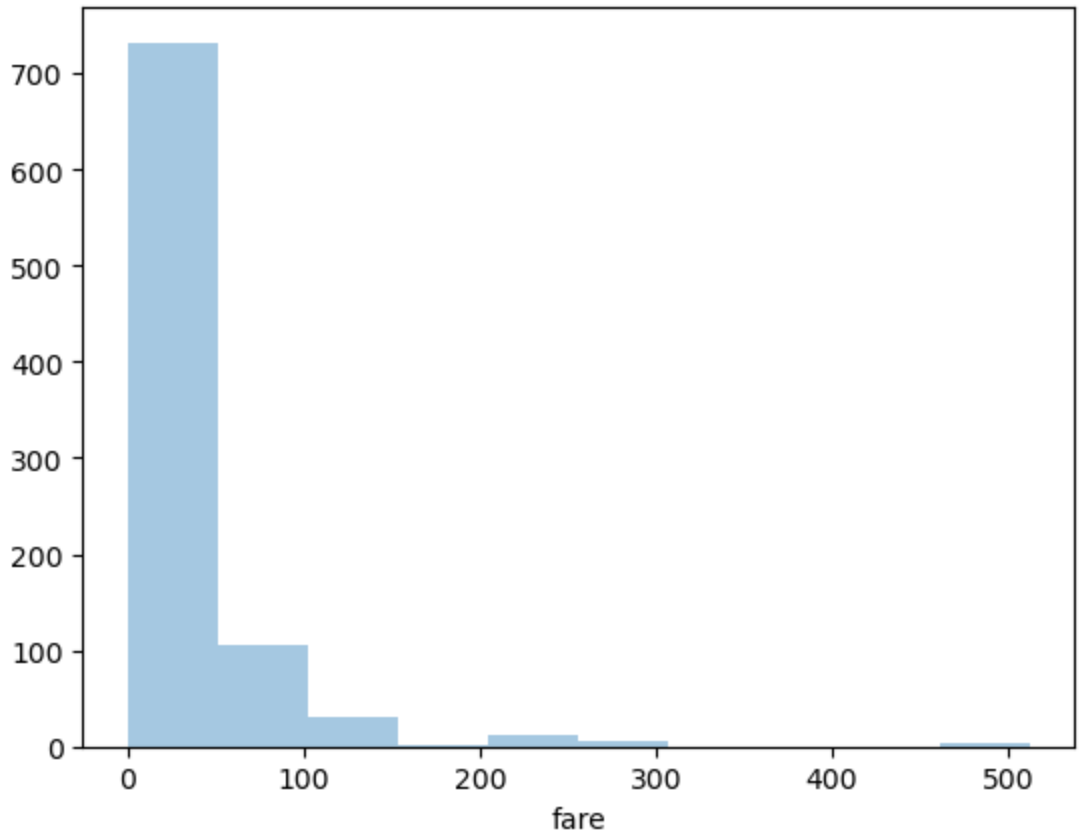
Out[4]:
```
<seaborn.axisgrid.FacetGrid at 0x7fd76644c100>
```



In [7]:
```
sns.distplot(dataset['fare'],kde=False , bins=10)
```

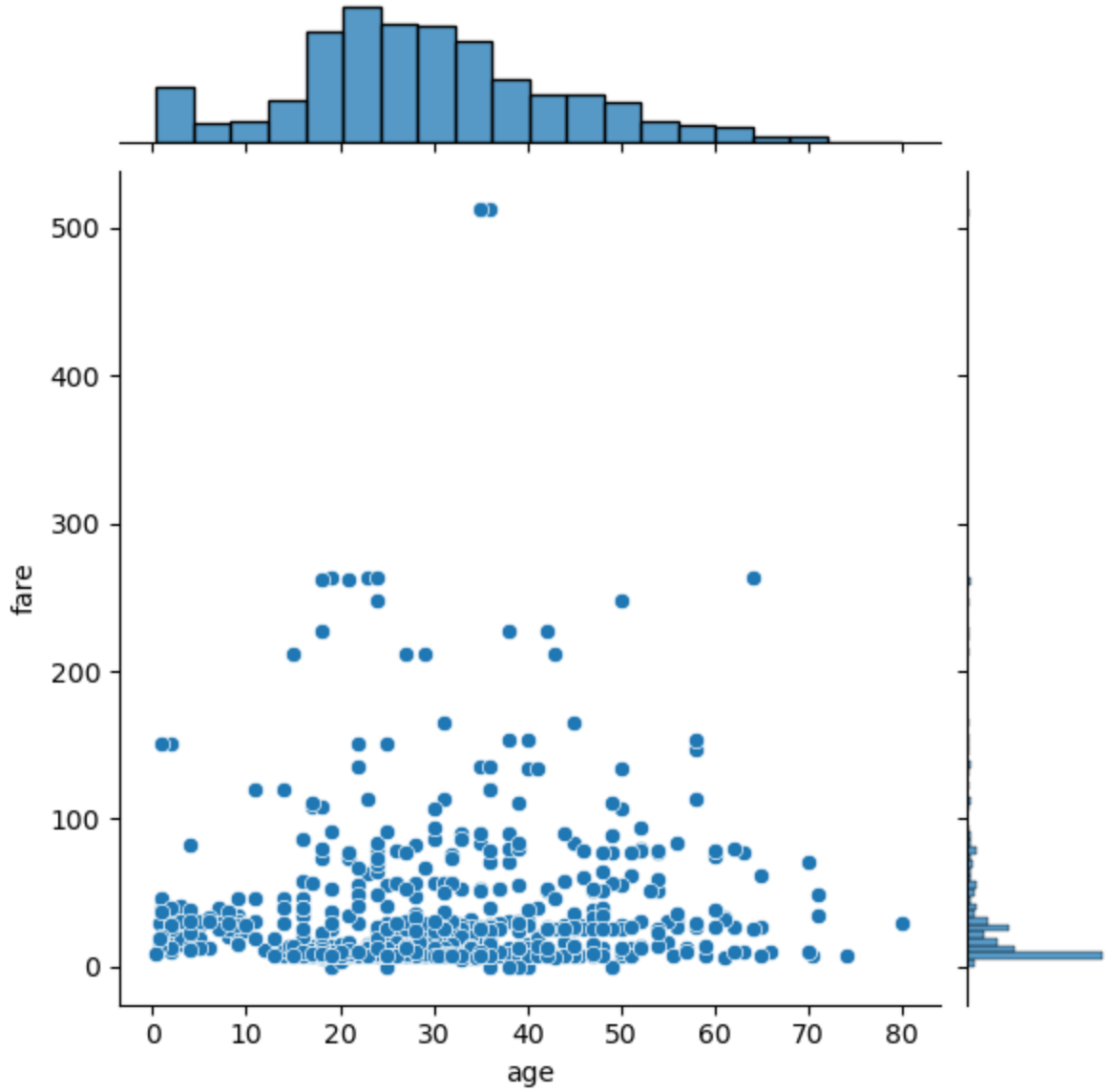
```
/tmp/ipykernel_12138/8854461.py:1: UserWarning:

`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[7]:
```
<Axes: xlabel='fare'>
```



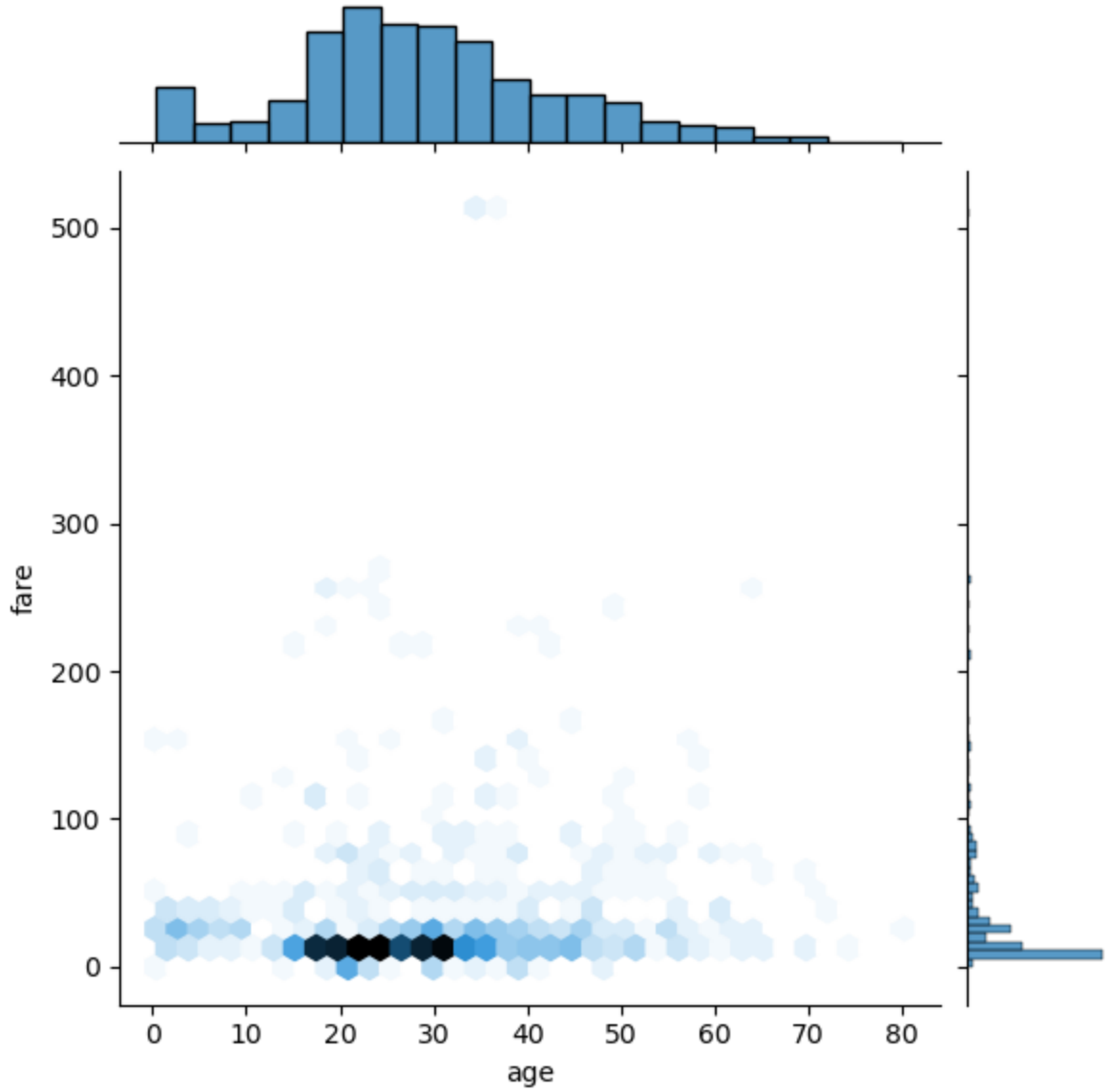
In [9]:
```
sns.jointplot(x='age', y='fare', data=dataset)
```

Out[9]:
```
<seaborn.axisgrid.JointGrid at 0x7fd761514280>
```



In [11]:
```
sns.jointplot(x='age', y='fare', data=dataset, kind='hex')
```

Out[11]:
```
<seaborn.axisgrid.JointGrid at 0x7fd7613761d0>
```

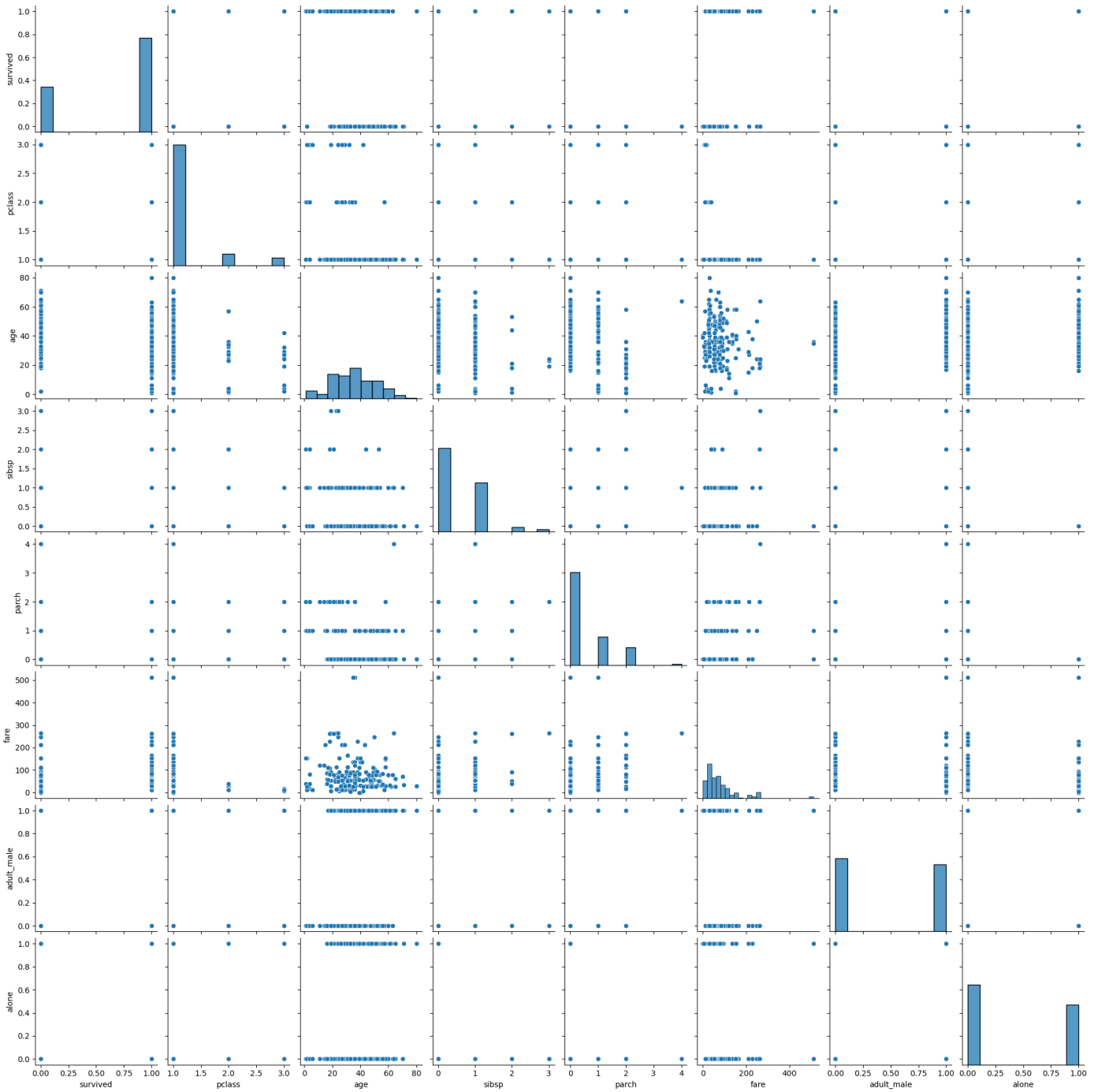


In [12]:
```
dataset=dataset.dropna()
```

In [15]:
```
sns.pairplot(dataset)
```

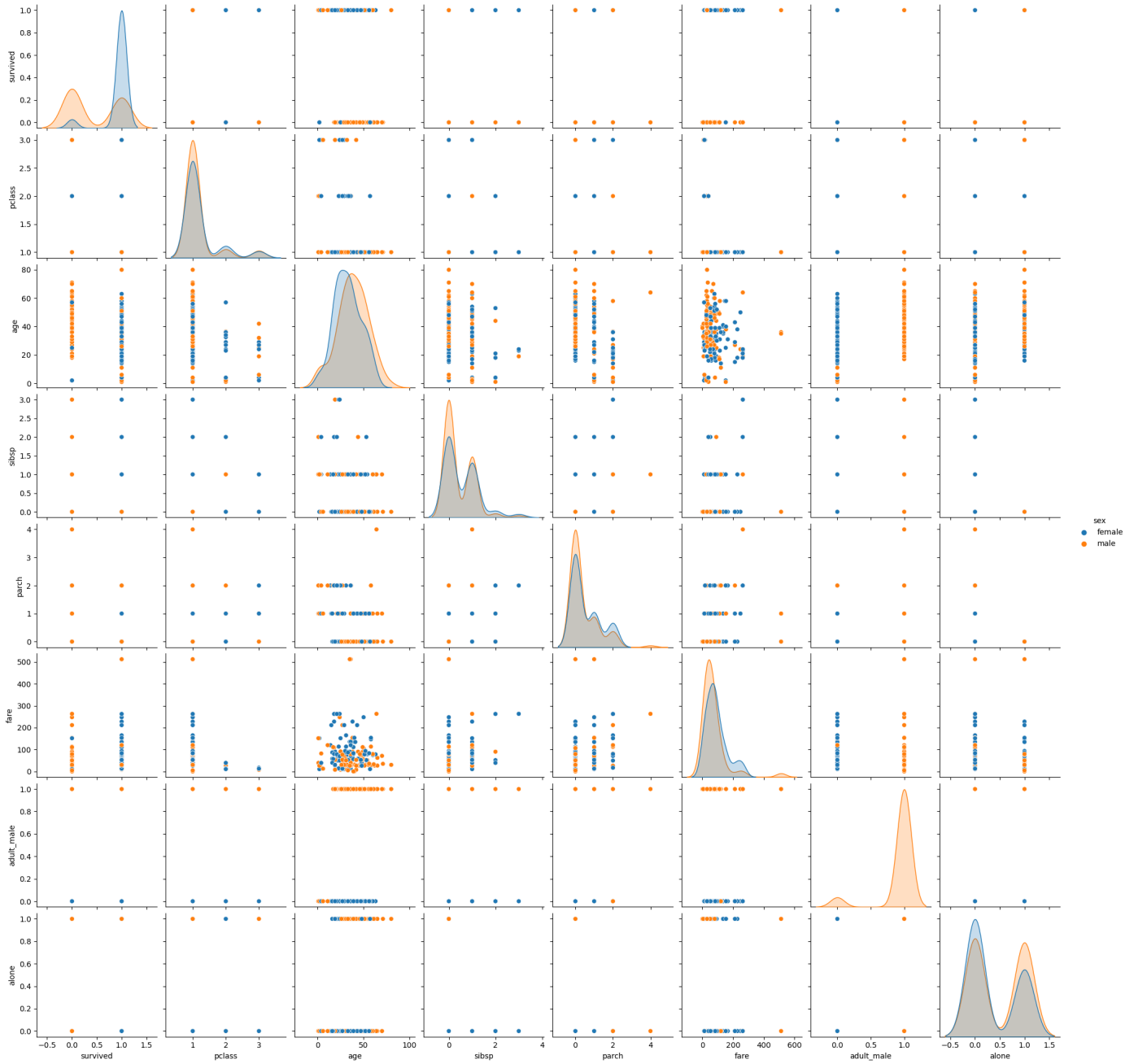
```
<__array_function__ internals>:180: RuntimeWarning: Converting input from bool to <class
'numpy.uint8'> for compatibility.
<__array_function__ internals>:180: RuntimeWarning: Converting input from bool to <class
'numpy.uint8'> for compatibility.
```

Out[15]:
```
<seaborn.axisgrid.PairGrid at 0x7fd75d299750>
```



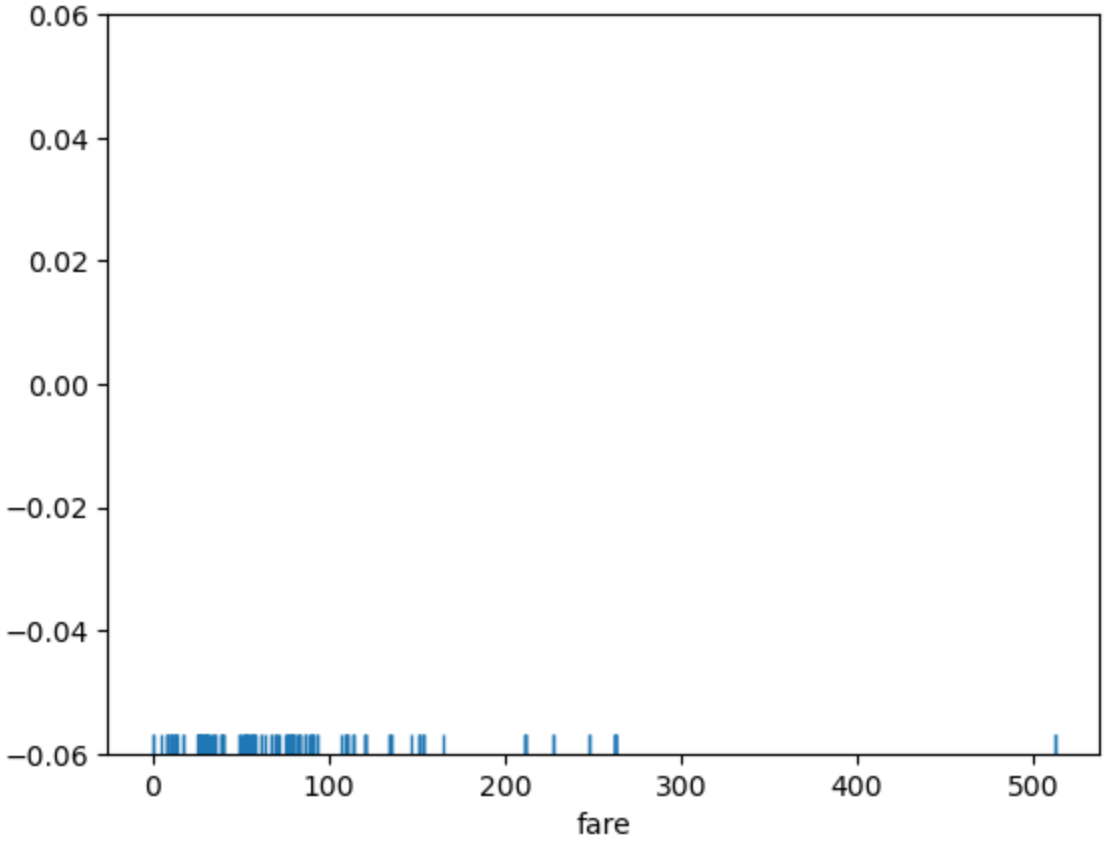
In [16]:
```
sns.pairplot(dataset, hue='sex')
```

Out[16]:
```
<seaborn.axisgrid.PairGrid at 0x7fd759988070>
```



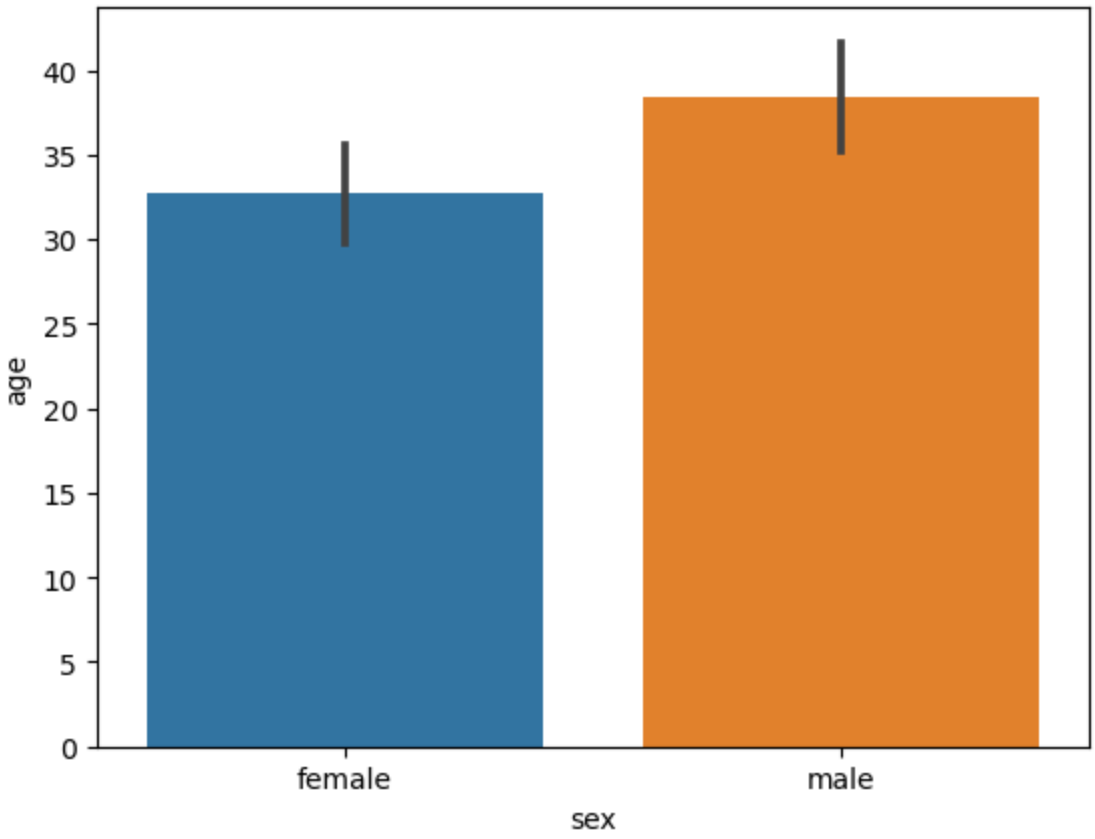
In [17]:
```
sns.rugplot(dataset['fare'])
```

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



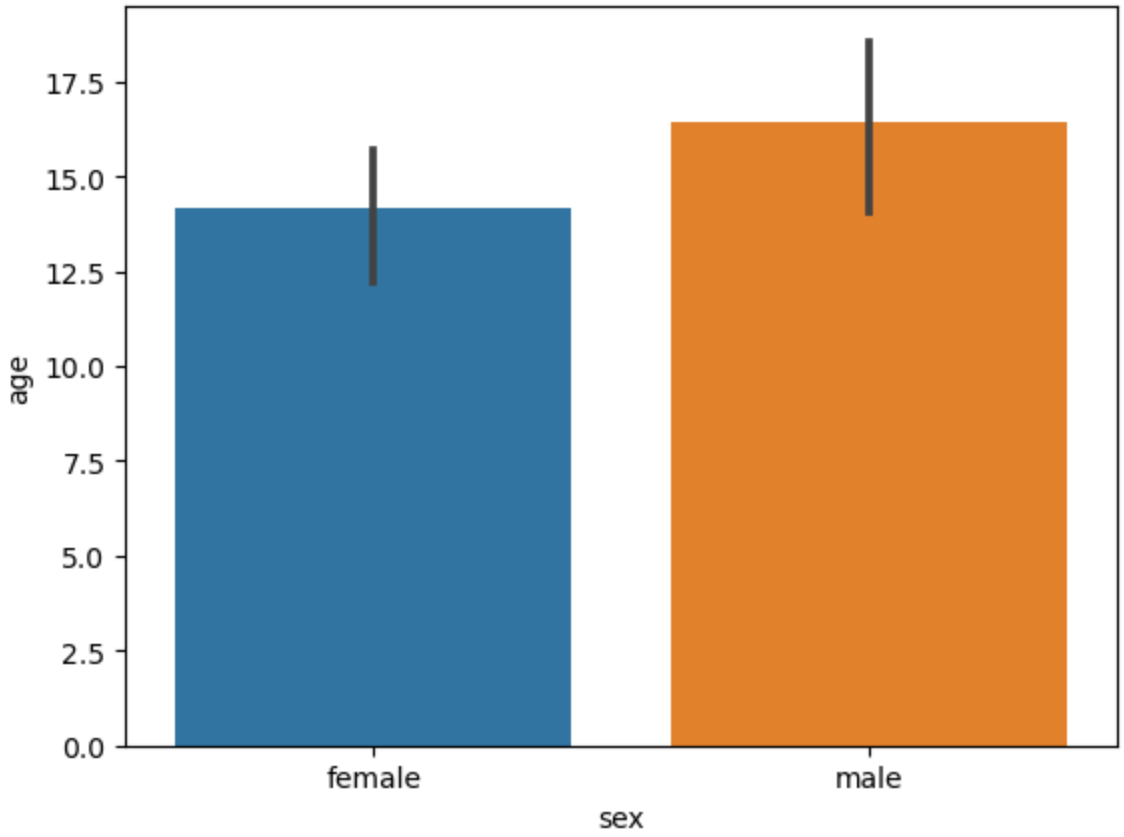
In [18]:
```
sns.barplot(x='sex', y='age',data=dataset)
```

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



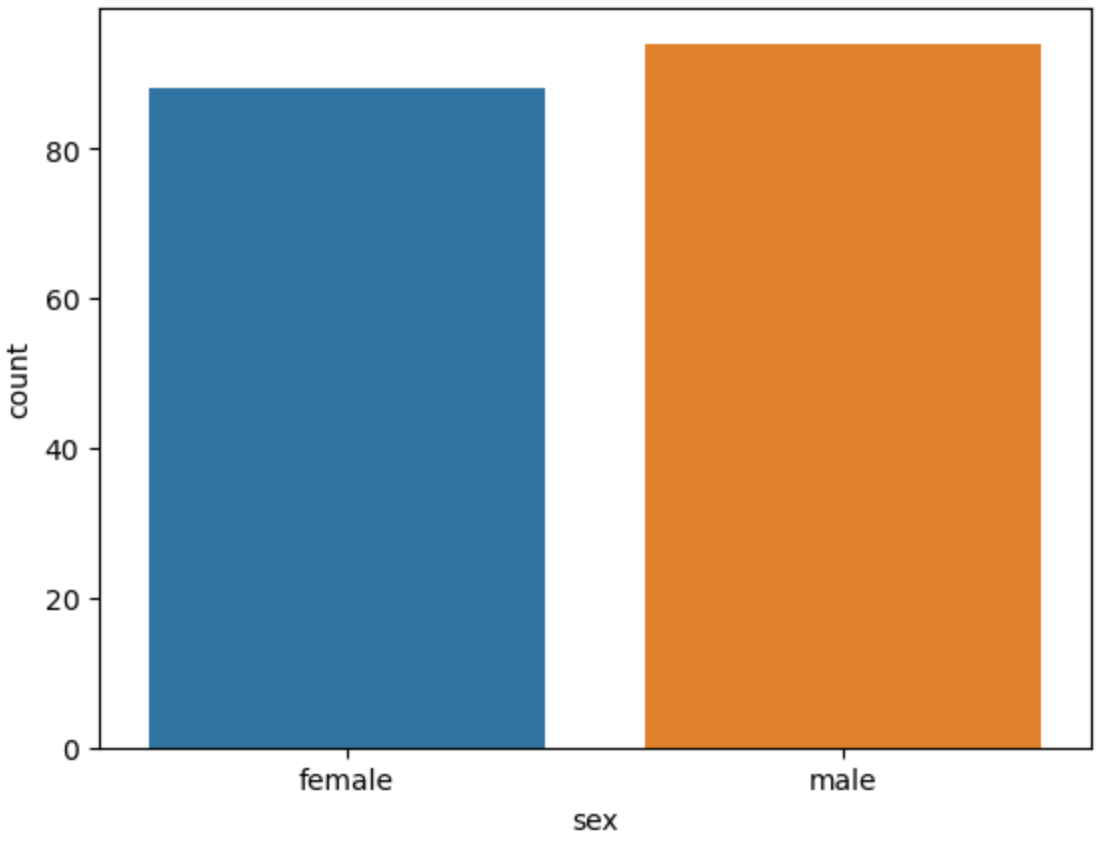
In [19]:
```
sns.barplot(x='sex', y='age', data=dataset, estimator=np.std)
```

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



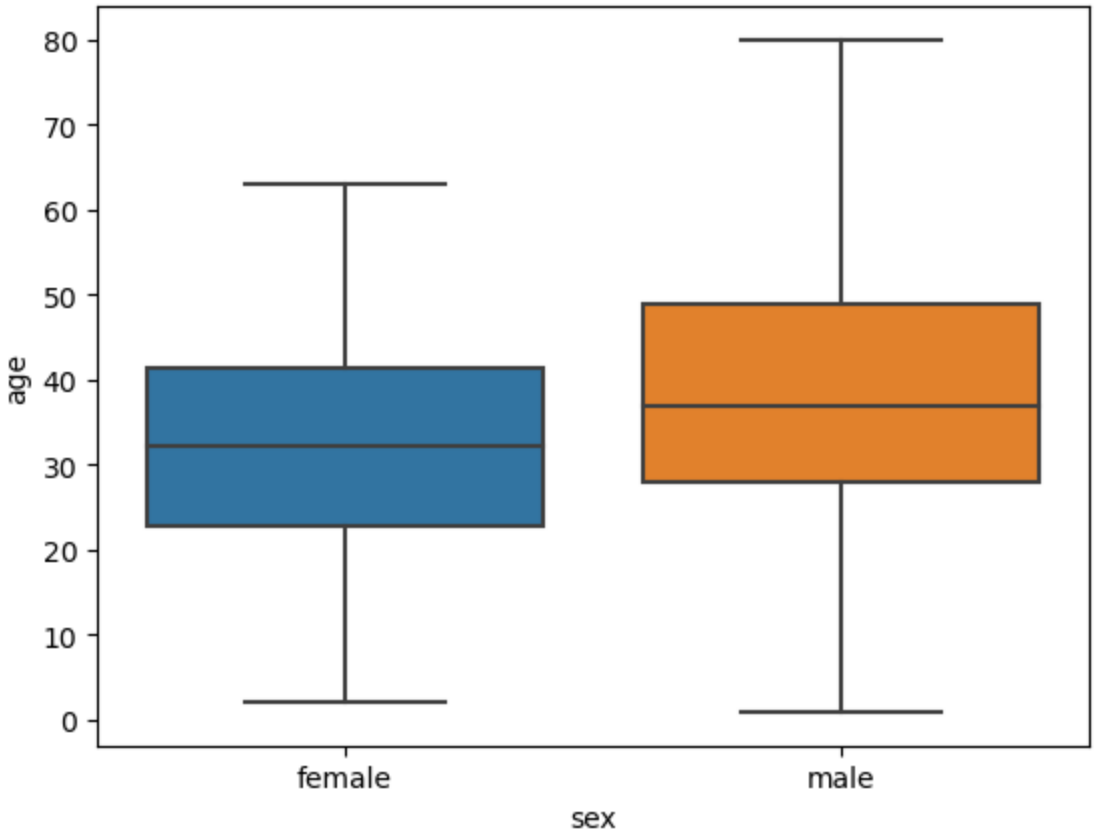
In [20]:
```
sns.countplot(x='sex', data=dataset)
```

Out[20]:
```
<Axes: xlabel='sex', ylabel='count'>
```



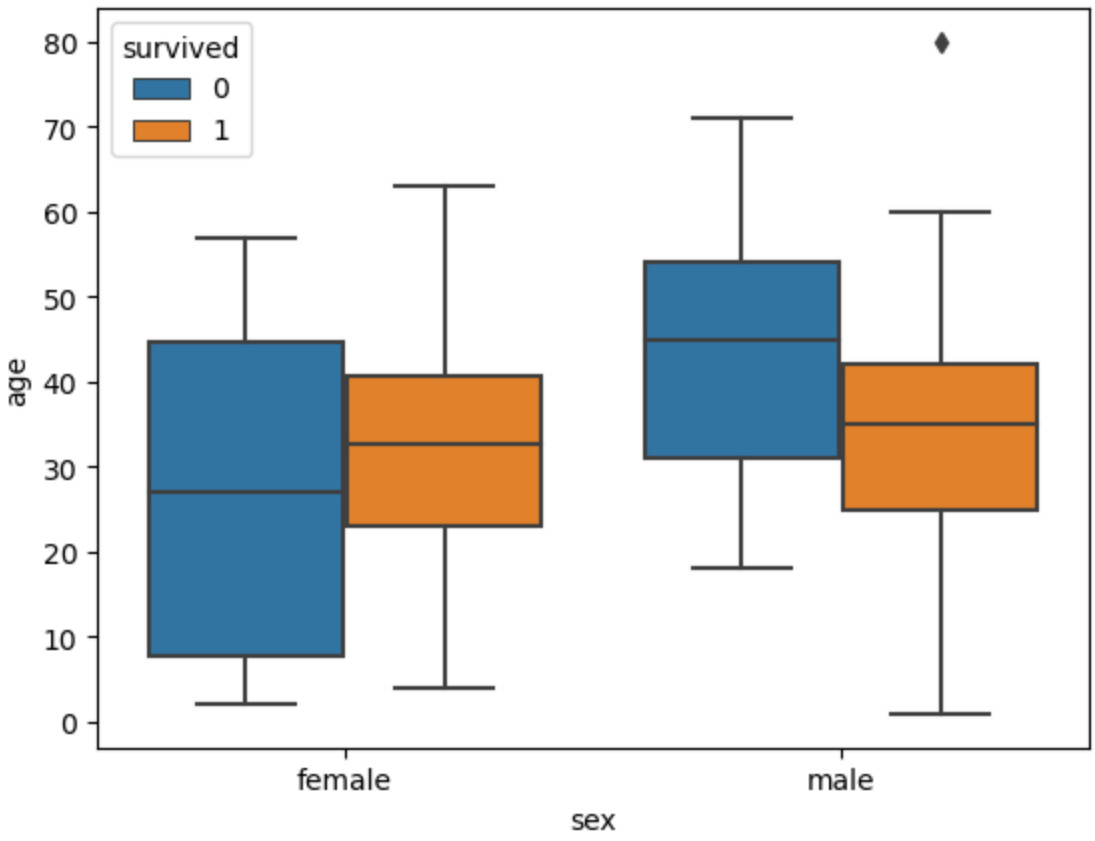
In [21]:
```
sns.boxplot(x='sex', y='age', data=dataset)
```

Out[21]:
```
<Axes: xlabel='sex', ylabel='age'>
```



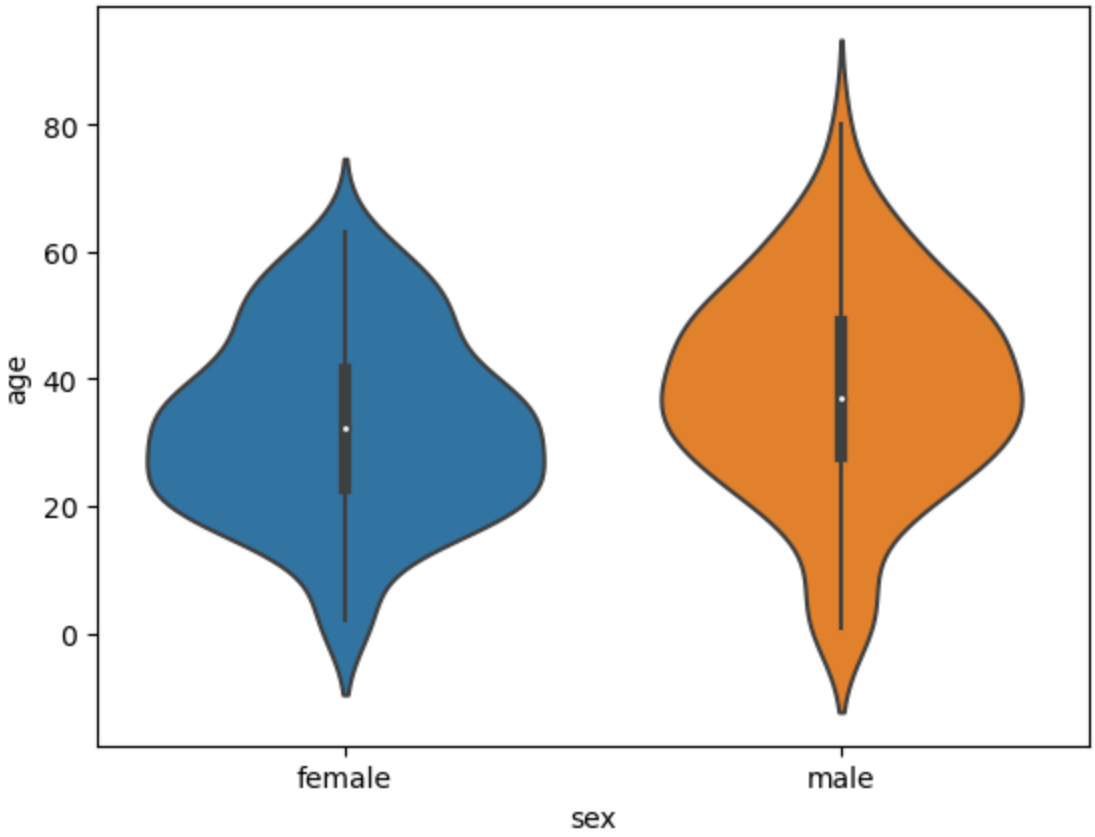
In [22]:
```
sns.boxplot(x='sex', y='age', data=dataset, hue="survived")
```

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



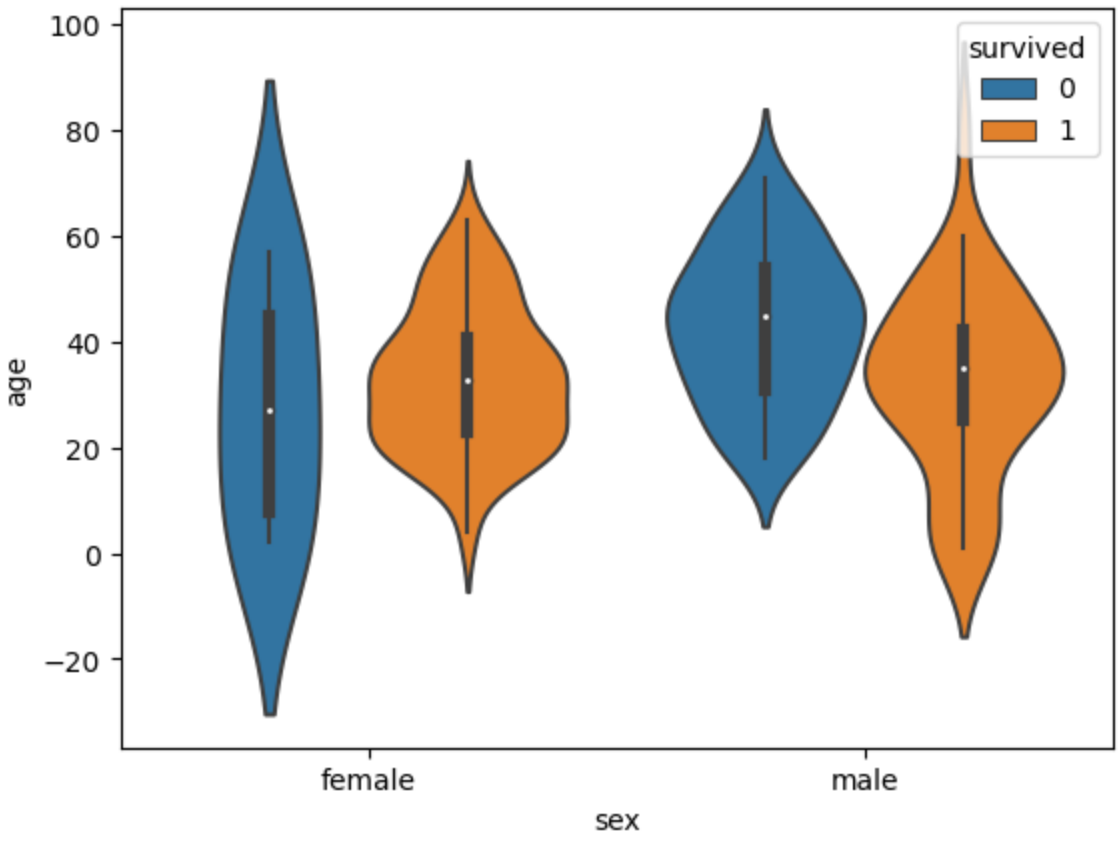
In [23]:
```
sns.violinplot(x='sex',y='age',data=dataset)
```

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



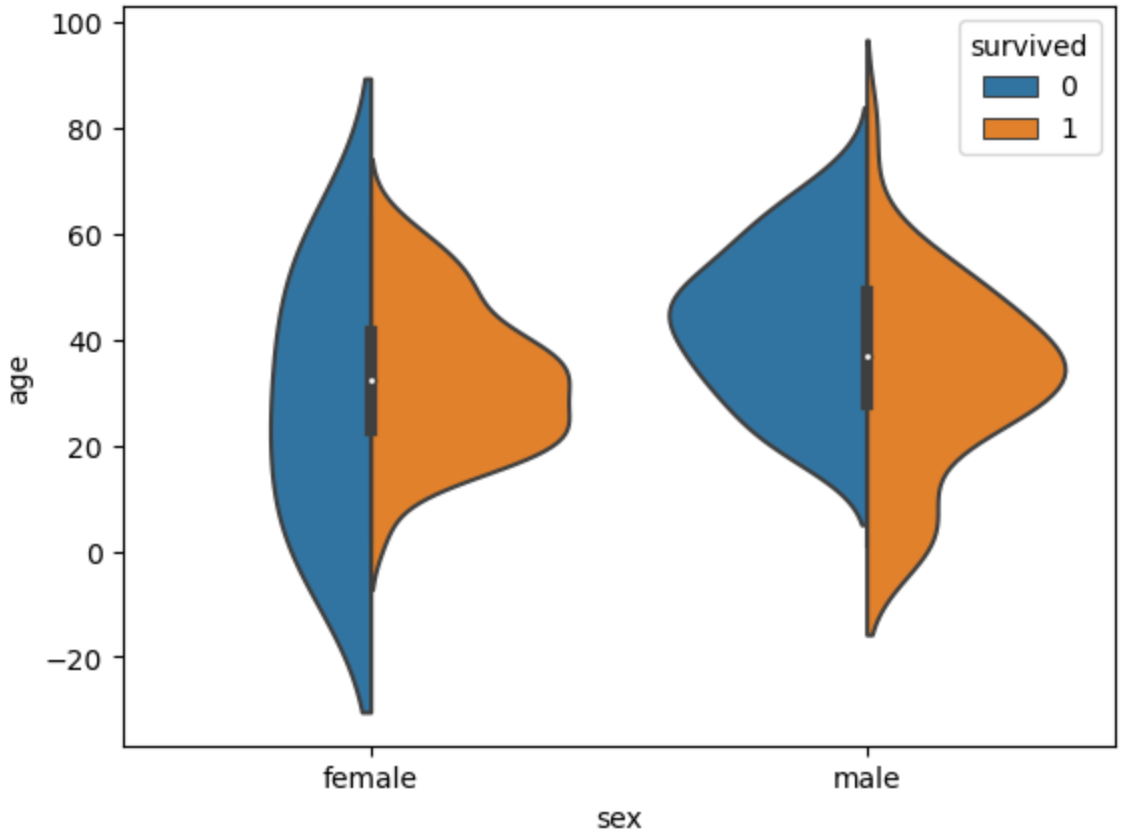
In [24]:
```
sns.violinplot(x='sex',y='age',data=dataset,hue='survived')
```

Out[24]:
```
<Axes: xlabel='sex', ylabel='age'>
```



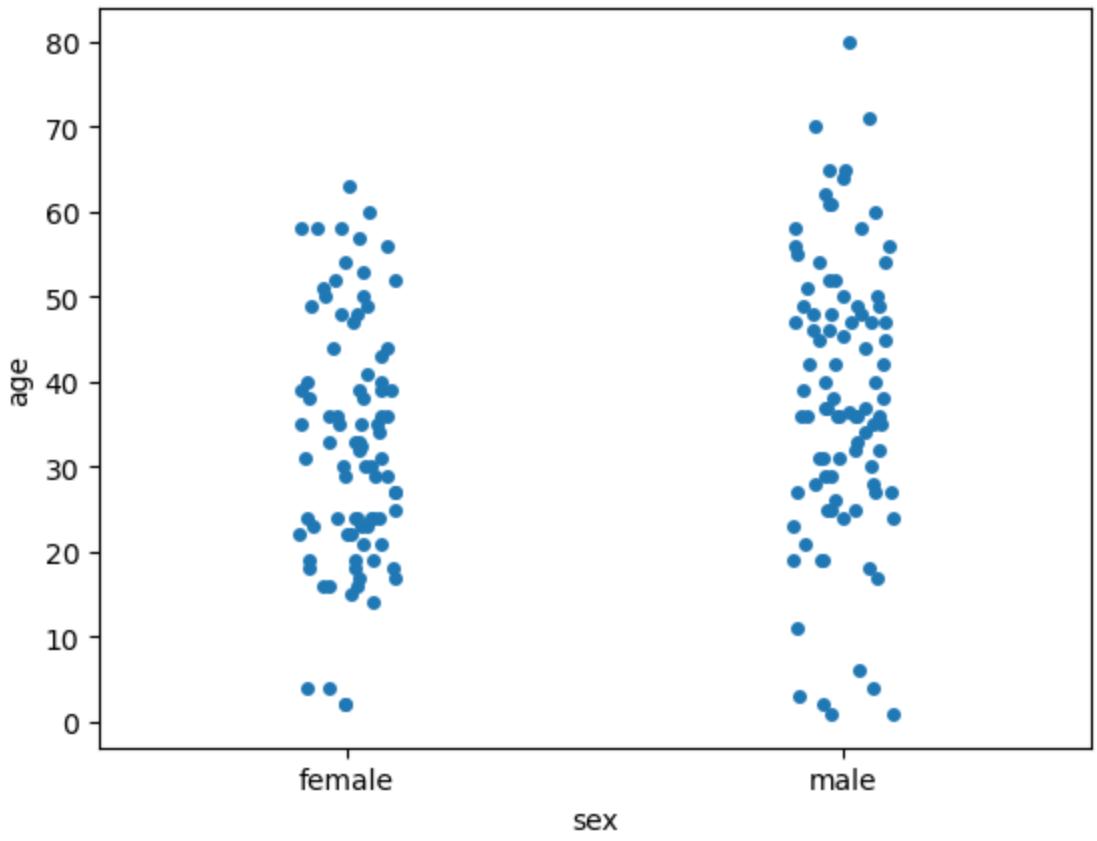
In [25]:
```
sns.violinplot(x='sex',y='age',data=dataset,hue='survived',split=True)
```

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



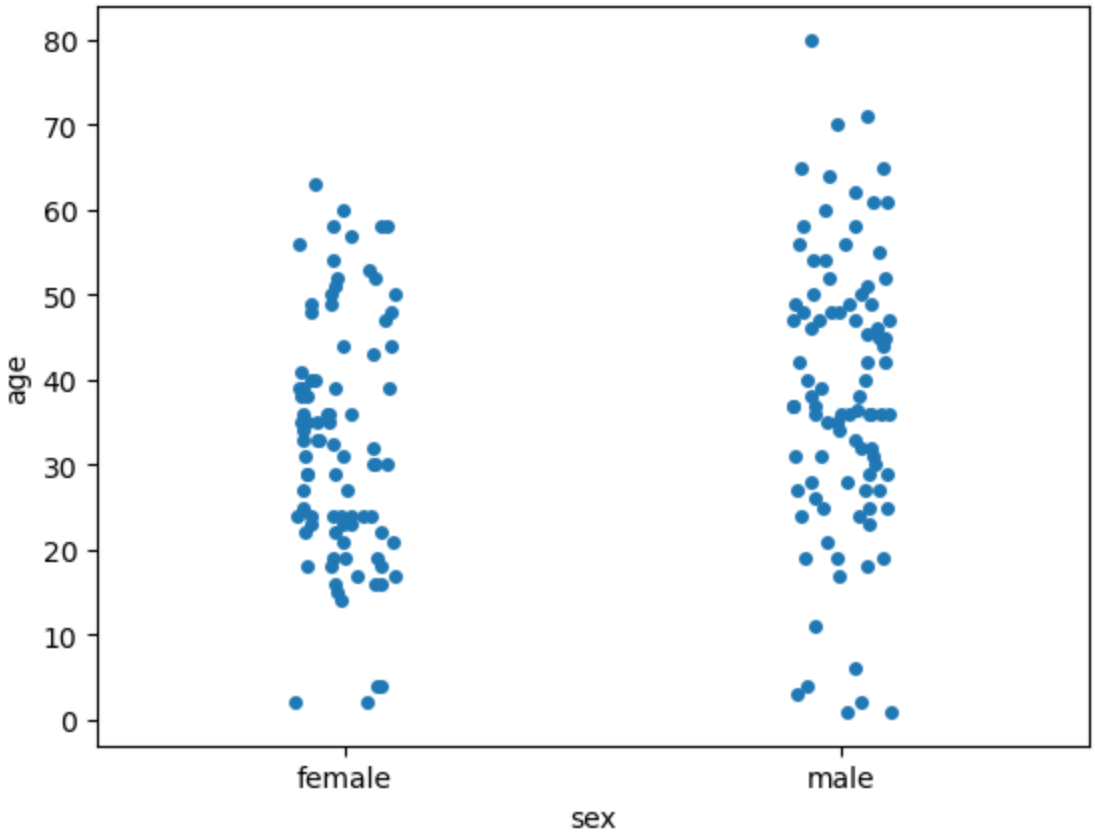
In [28]:
```
sns.stripplot(x='sex', y='age', data=dataset)
```

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



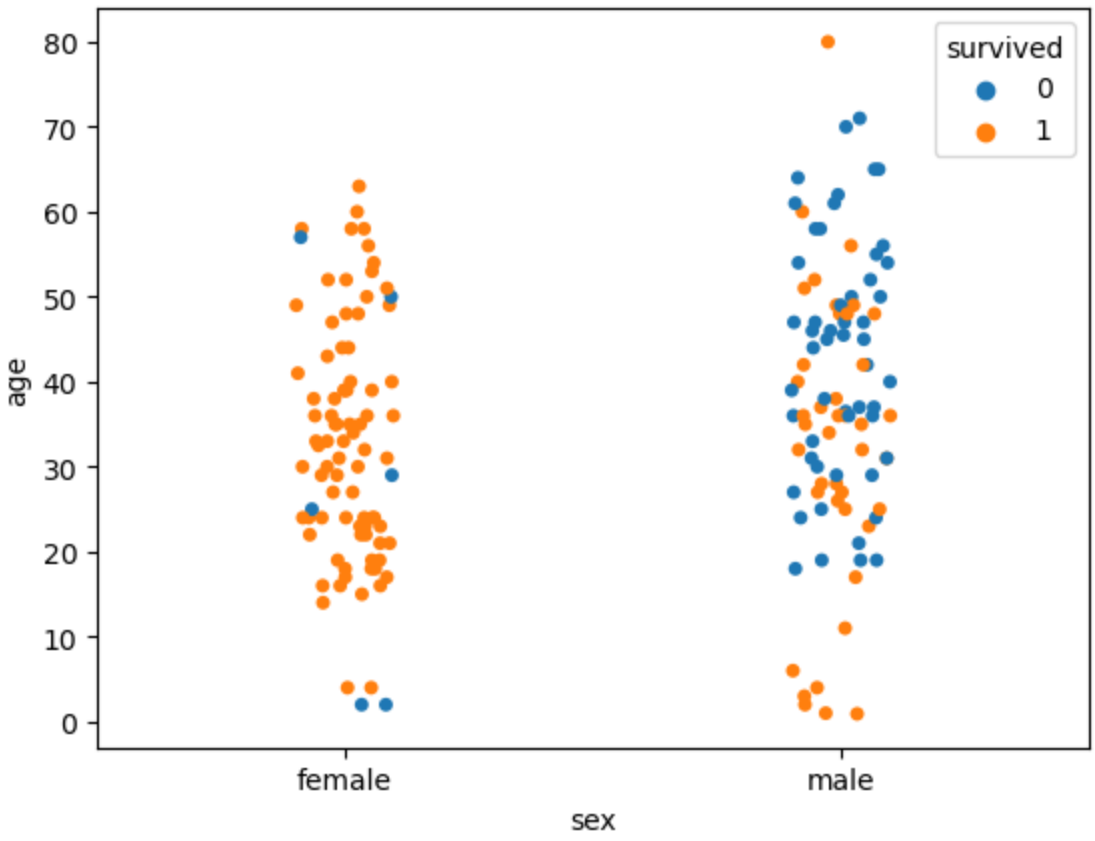
In [29]:
```
sns.stripplot(x='sex', y='age', data=dataset, jitter=True)
```

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



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

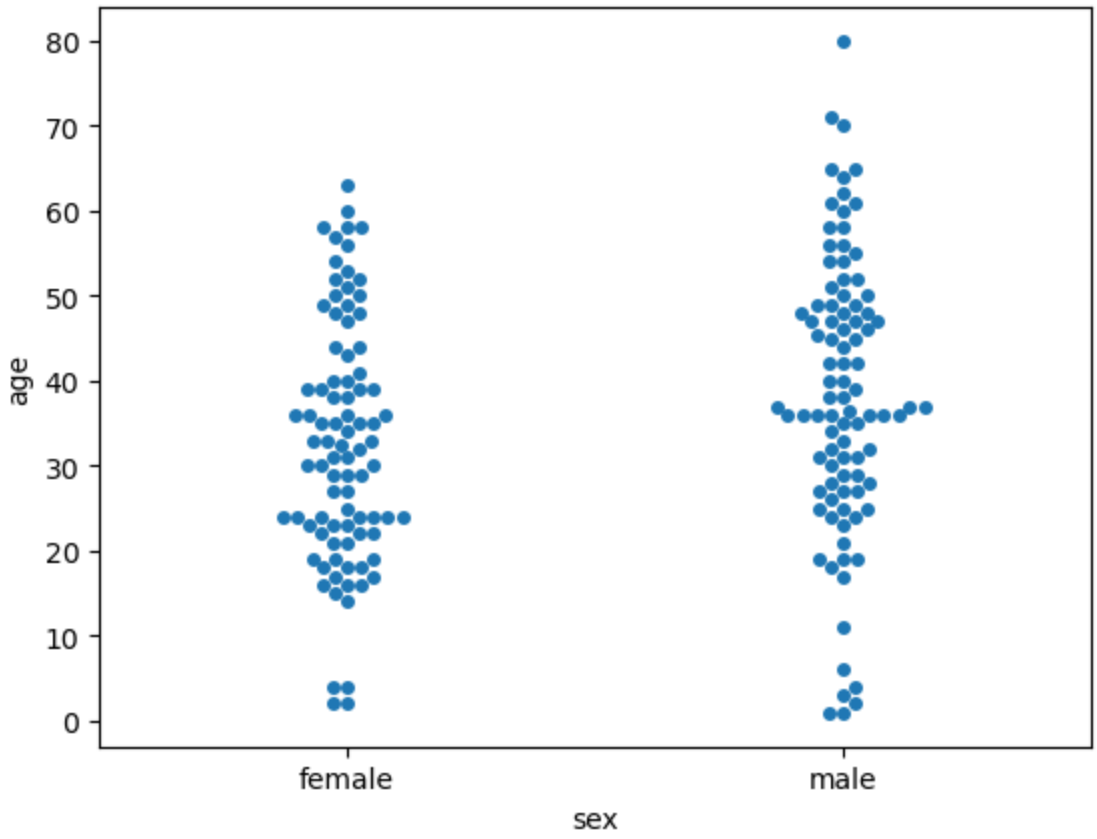
Out[30]:
```
<Axes: xlabel='sex', ylabel='age'>
```



In [ ]:
```

```

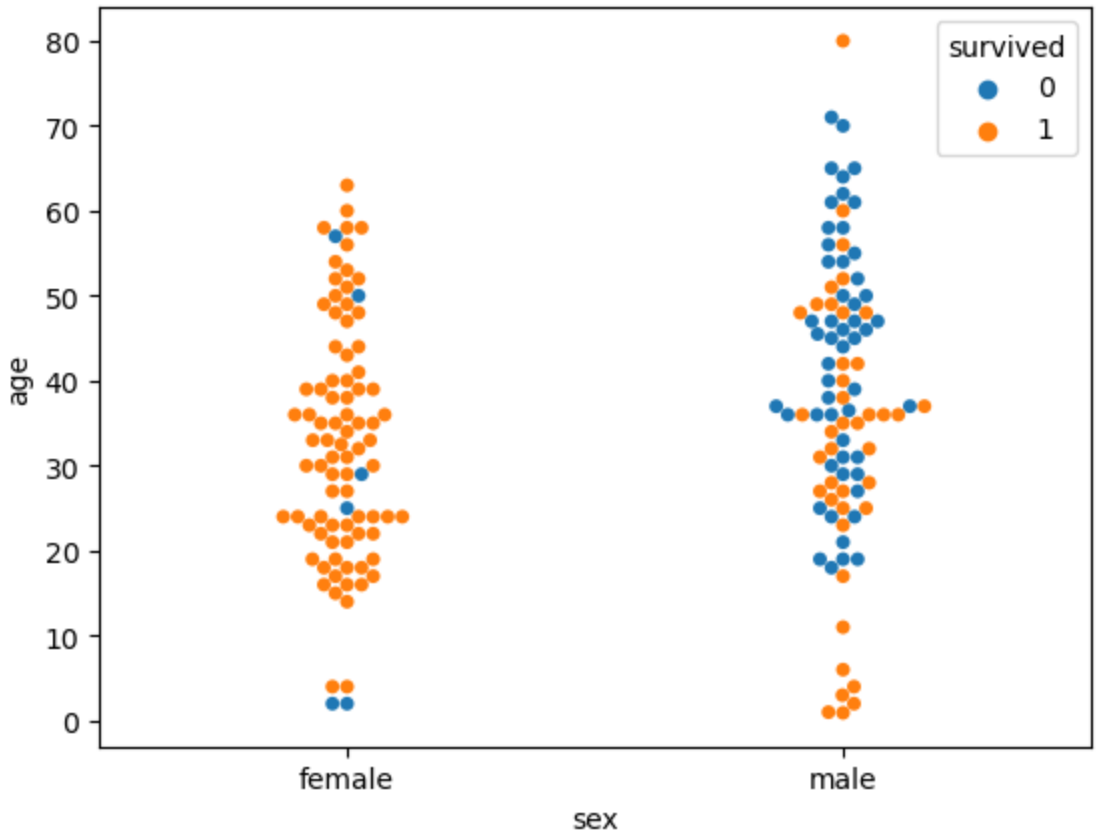
In [32]:
```
sns.swarmplot(x='sex', y='age', data=dataset)
```

Out[32]: <Axes: xlabel='sex', ylabel='age'>



In [33]:
```
sns.swarmplot(x='sex', y='age', data=dataset, hue='survived')
```

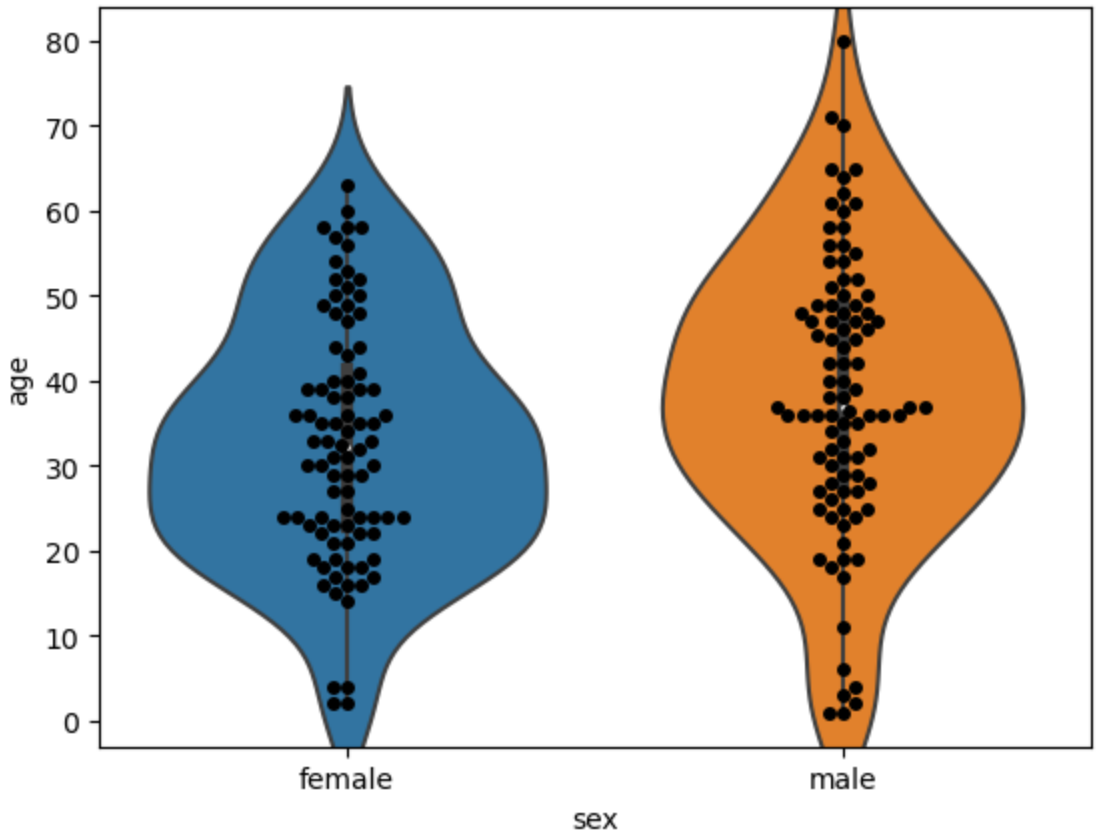
Out[33]: <Axes: xlabel='sex', ylabel='age'>



In [ ]:

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

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



In [ ]: