

```
In [ ]: # all plots in 1 cell

import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt

titanic=sns.load_dataset('titanic')

titanic.head()

sns.countplot(x='sex', hue='survived', data=titanic)
plt.show()

sns.countplot(x='pclass', hue='survived', data=titanic)
plt.show()

sns.histplot(x='fare',bins=30,data=titanic,kde=True)
plt.show()

sns.jointplot(x='fare',y='age',data=titanic,kind='scatter')
plt.show()

sns.rugplot(x='fare',data=titanic)
plt.show()

sns.barplot(x='sex',y='age',hue='survived',data=titanic)
plt.show()

sns.boxplot(x='sex',y='age',data=titanic)
plt.show()

sns.violinplot(x='sex',y='age',hue='survived',data=titanic)
plt.show()

sns.stripplot(x='sex',y='age',hue='survived',data=titanic,jitter=True)
plt.show()

sns.swarmplot(x='sex',y='age',hue='survived',data=titanic)
plt.show()

corr=titanic.corr(numeric_only=True)
sns.heatmap(corr,annot=True)
plt.show()

corr=titanic.corr(numeric_only=True)
sns.clustermap(corr,annot=True)
plt.show()

sns.pairplot(vars=['age','fare','pclass'],hue='survived',data=titanic)
plt.show()
```

```
In [2]: import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
```

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

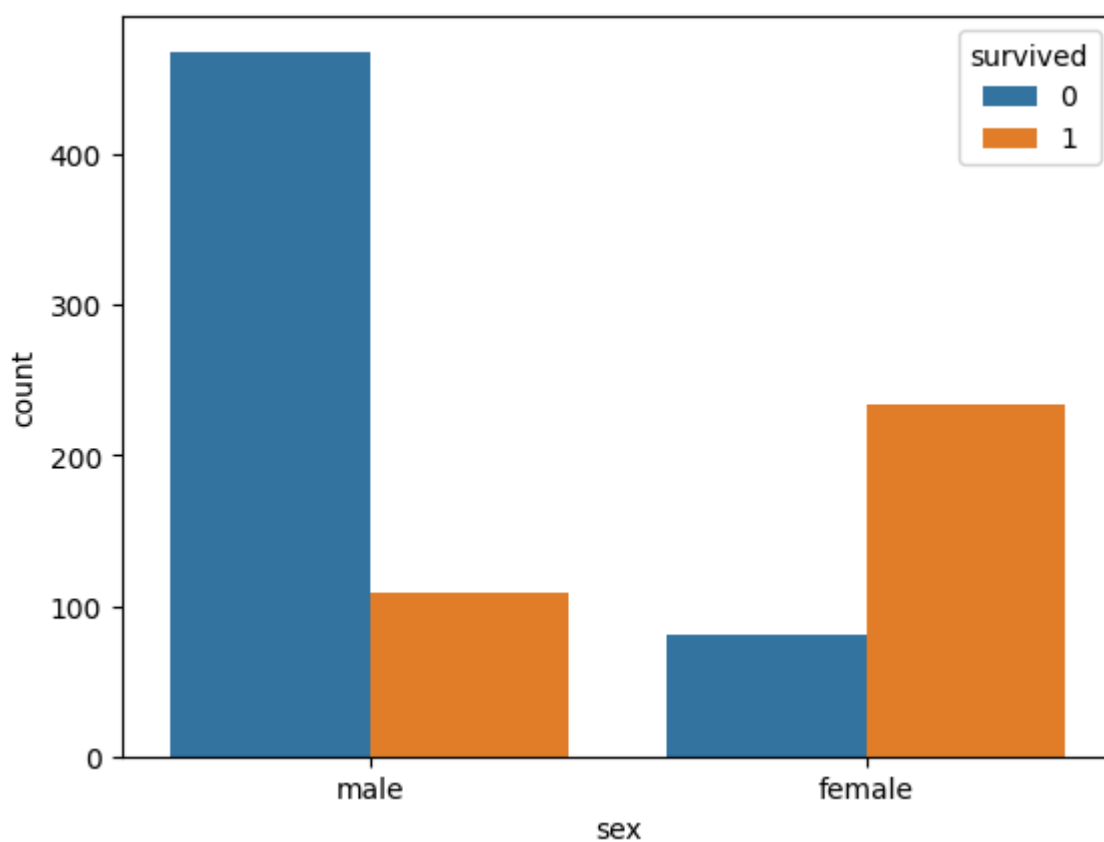
```
In [4]: titanic.head()
```

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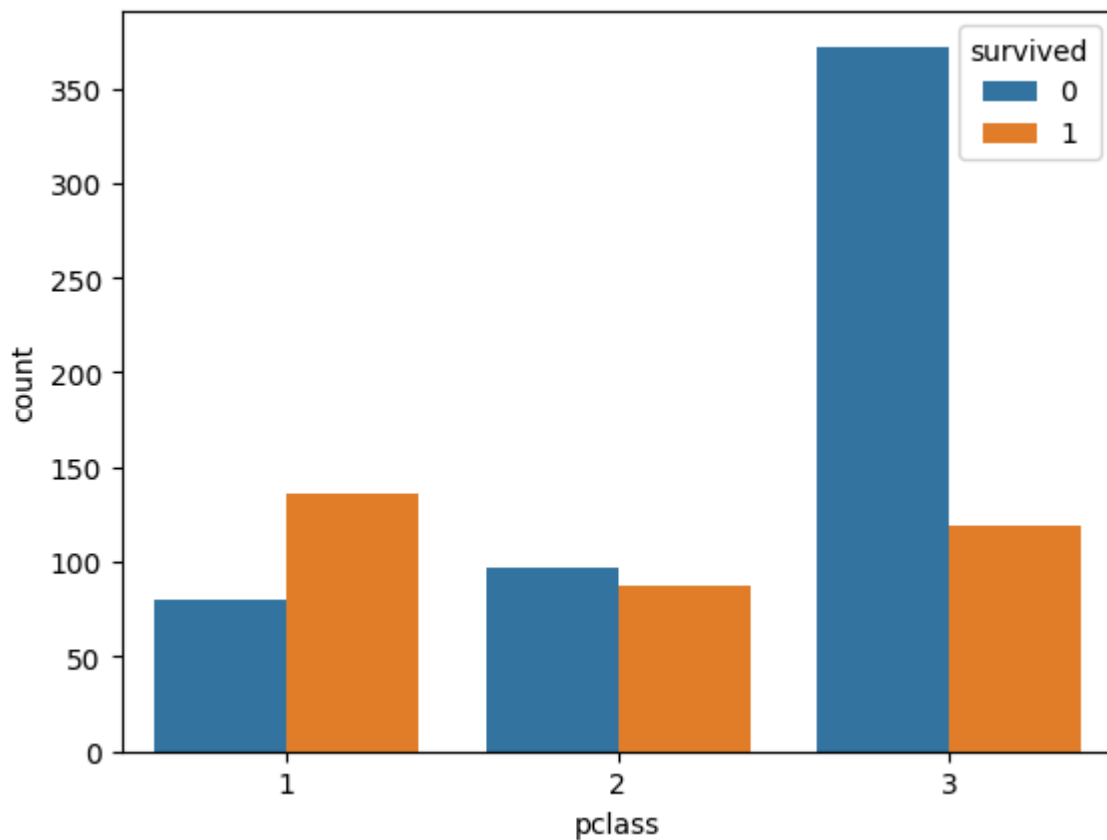
	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adul
0	0	3	male	22.0	1	0	7.2500	S	Third	man	
1	1	1	female	38.0	1	0	71.2833	C	First	woman	
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	
3	1	1	female	35.0	1	0	53.1000	S	First	woman	
4	0	3	male	35.0	0	0	8.0500	S	Third	man	

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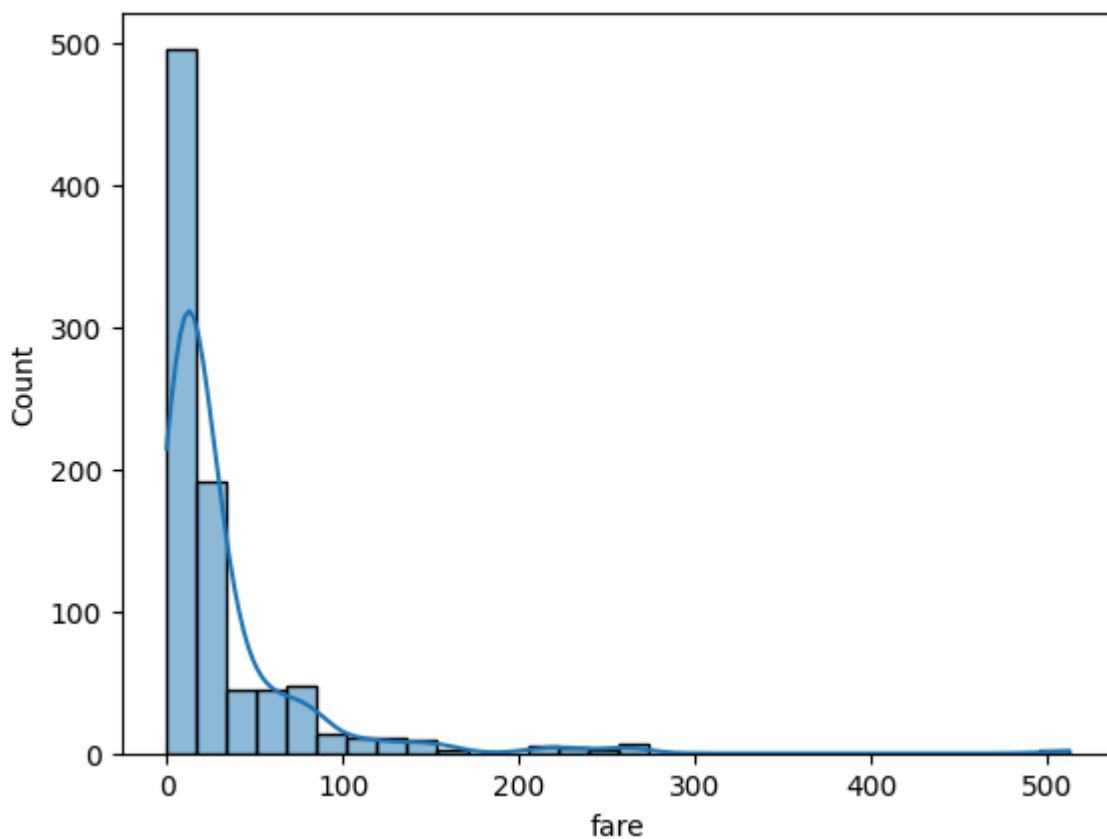
```
In [5]: sns.countplot(x='sex', hue='survived', data=titanic)
plt.show()
```



```
In [6]: sns.countplot(x='pclass', hue='survived', data=titanic)
plt.show()
```

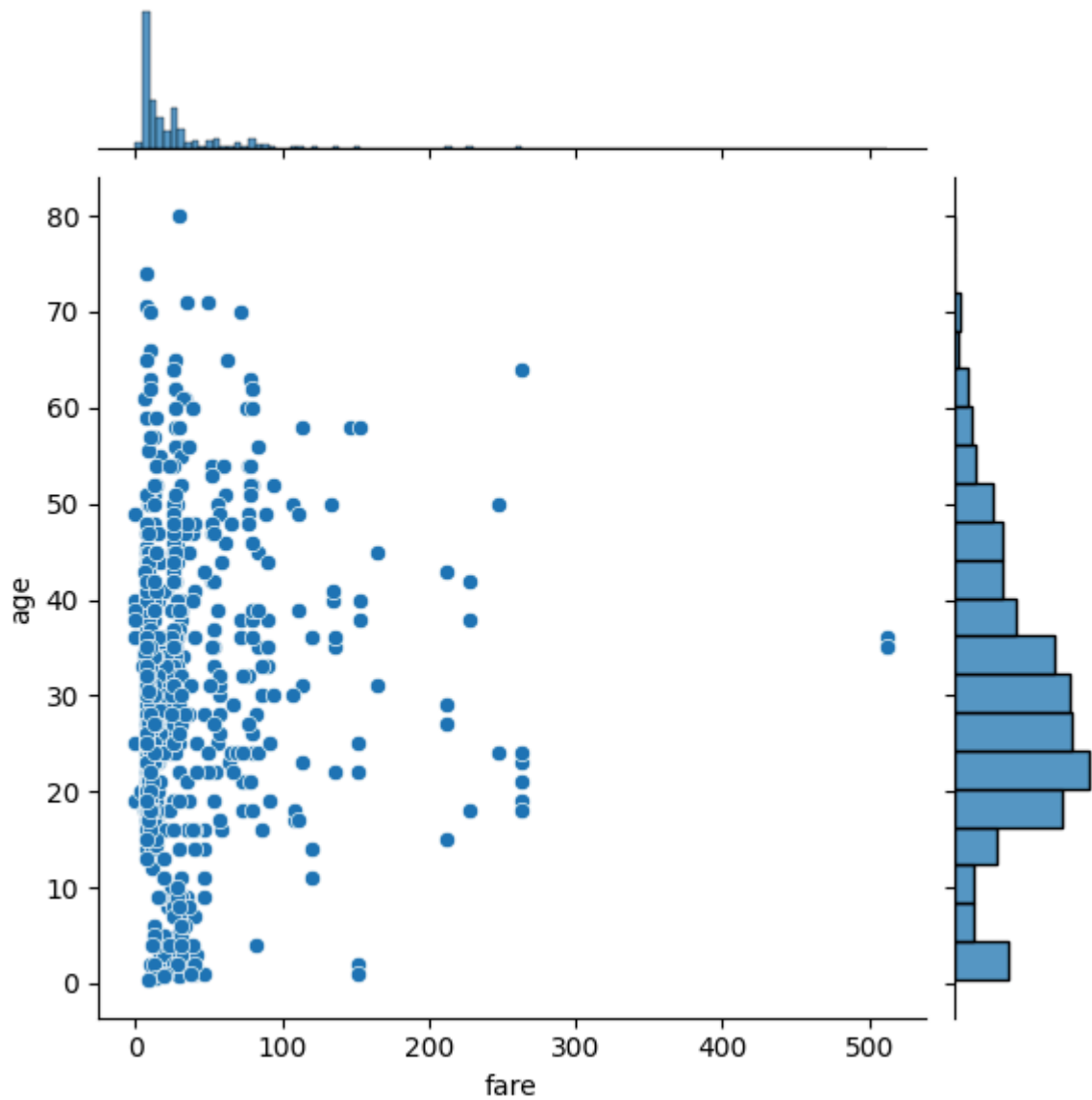


```
In [7]: sns.histplot(x='fare',bins=30,data=titanic,kde=True)  
plt.show()
```

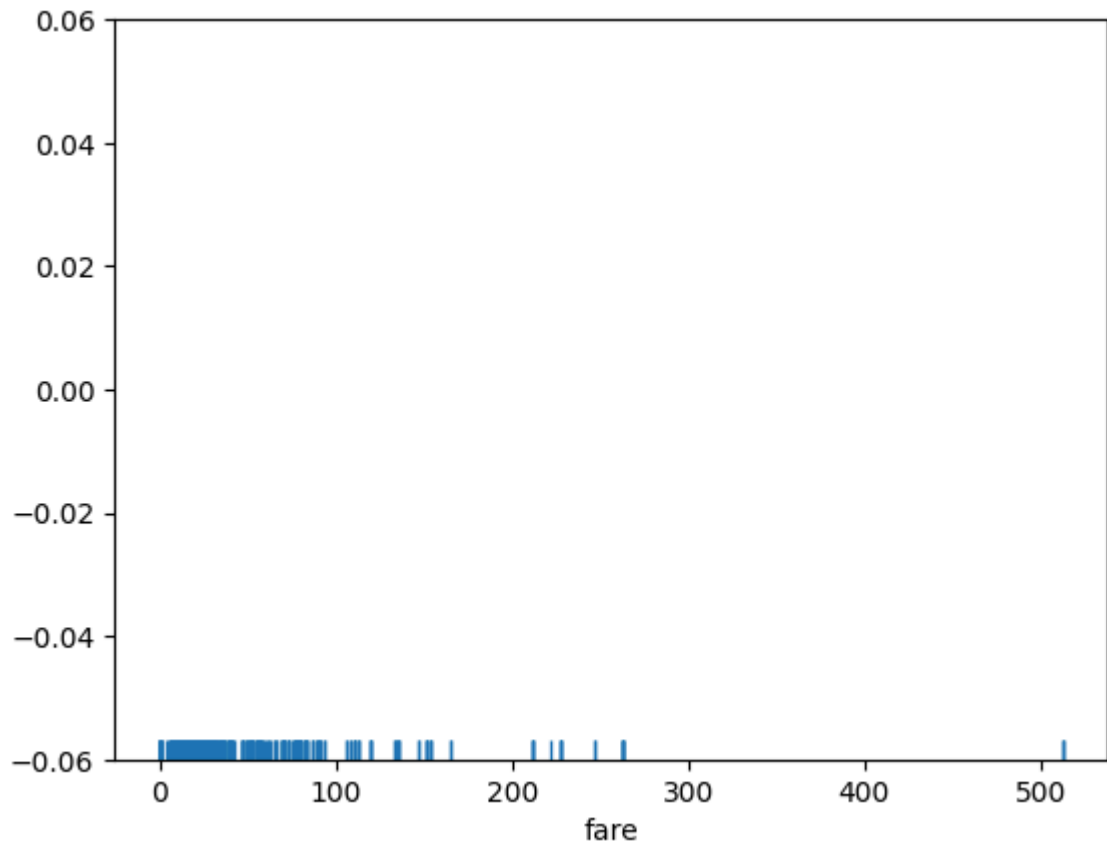


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In [8]: #optimal plots if mentioned in qn
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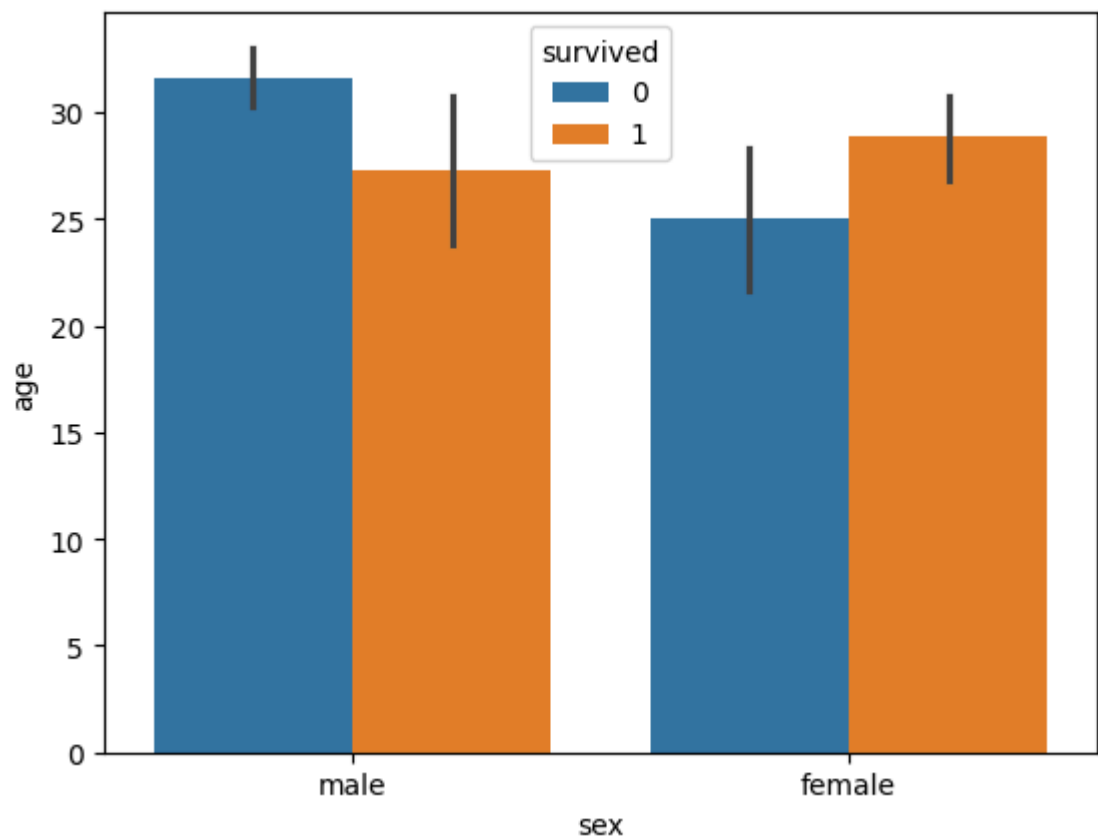
```
In [26]: sns.jointplot(x='fare',y='age',data=titanic,kind='scatter')  
plt.show()
```



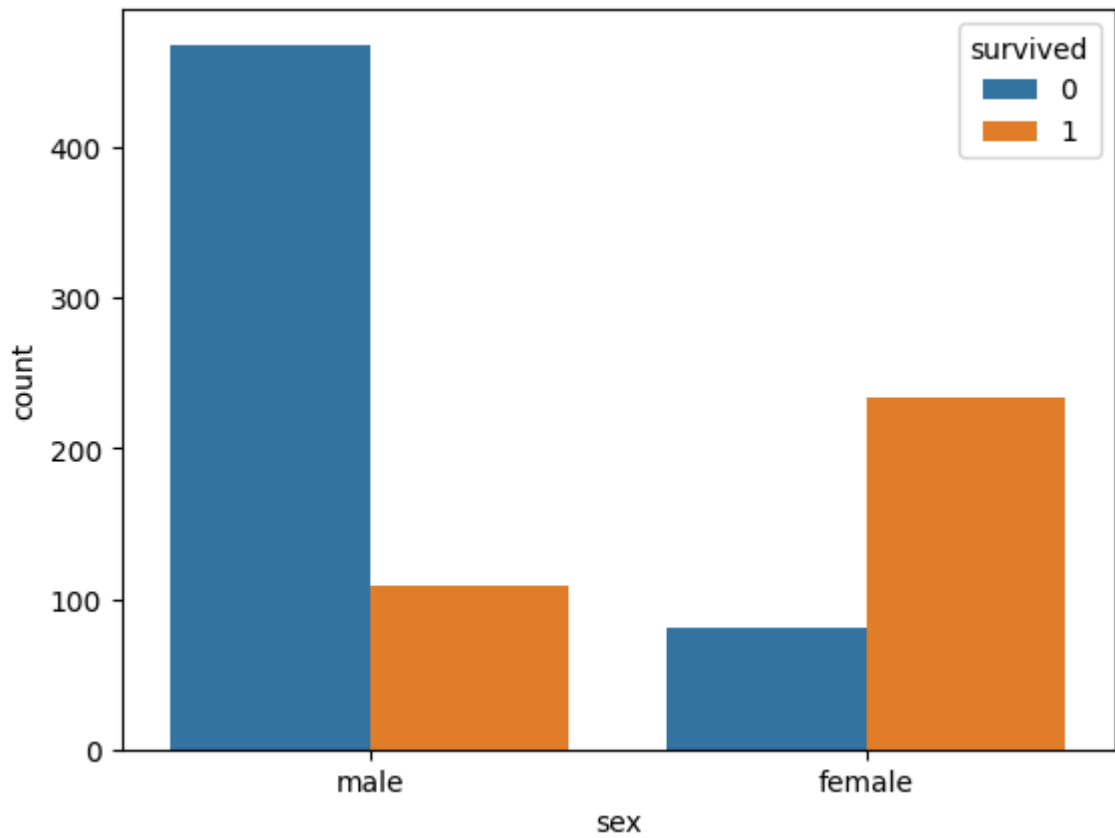
```
In [28]: sns.rugplot(x='fare',data=titanic)  
plt.show()
```



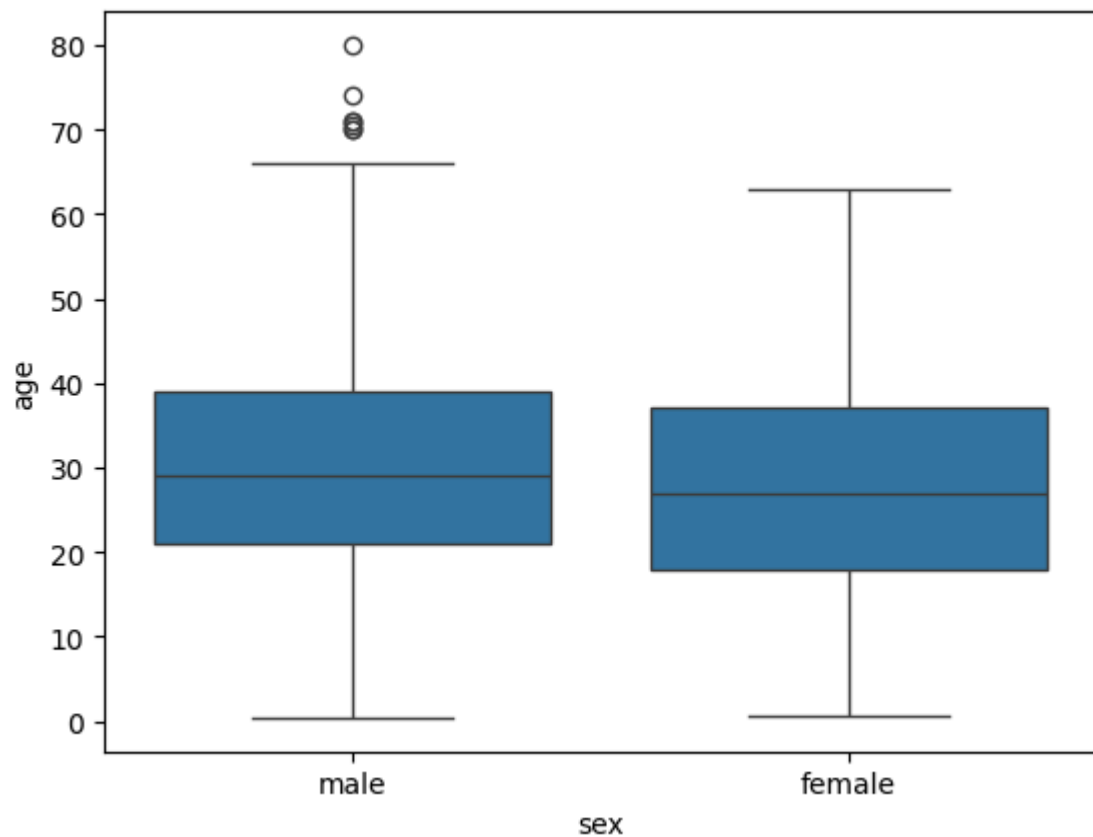
```
In [30]: sns.barplot(x='sex',y='age',hue='survived',data=titanic)
plt.show()
```



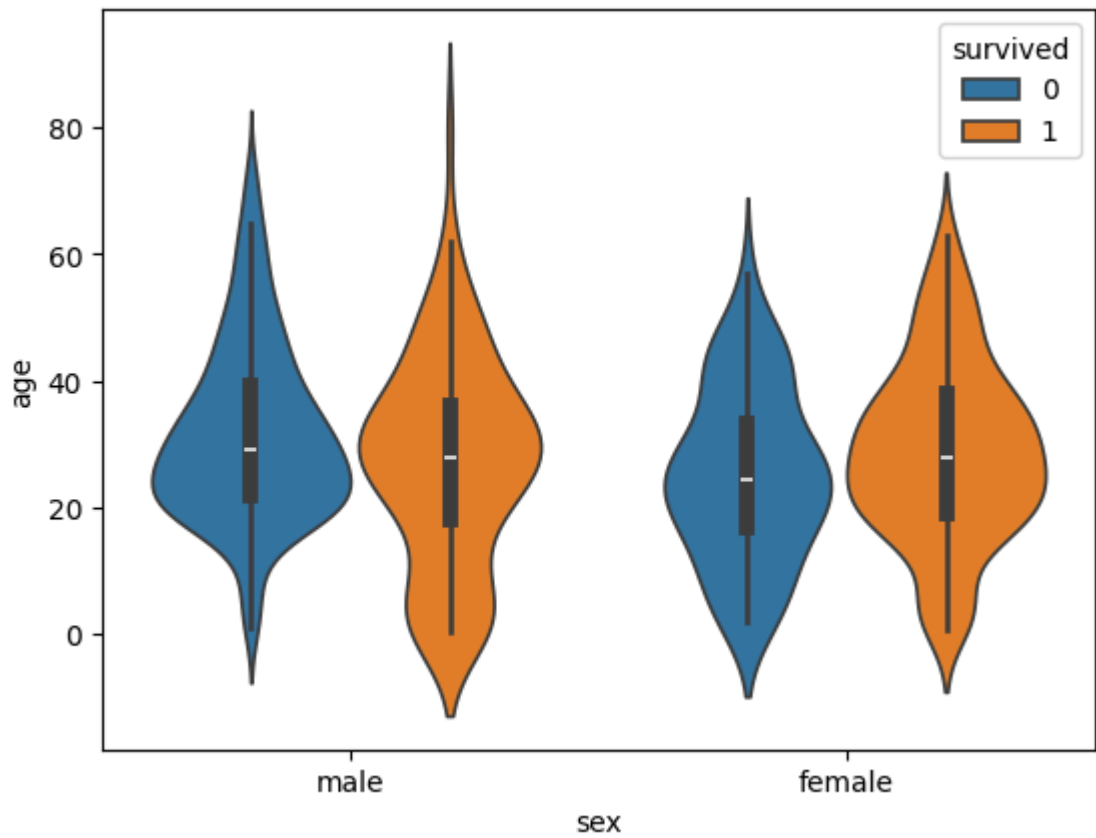
```
In [32]: sns.countplot(x='sex',hue='survived',data=titanic)
plt.show()
```



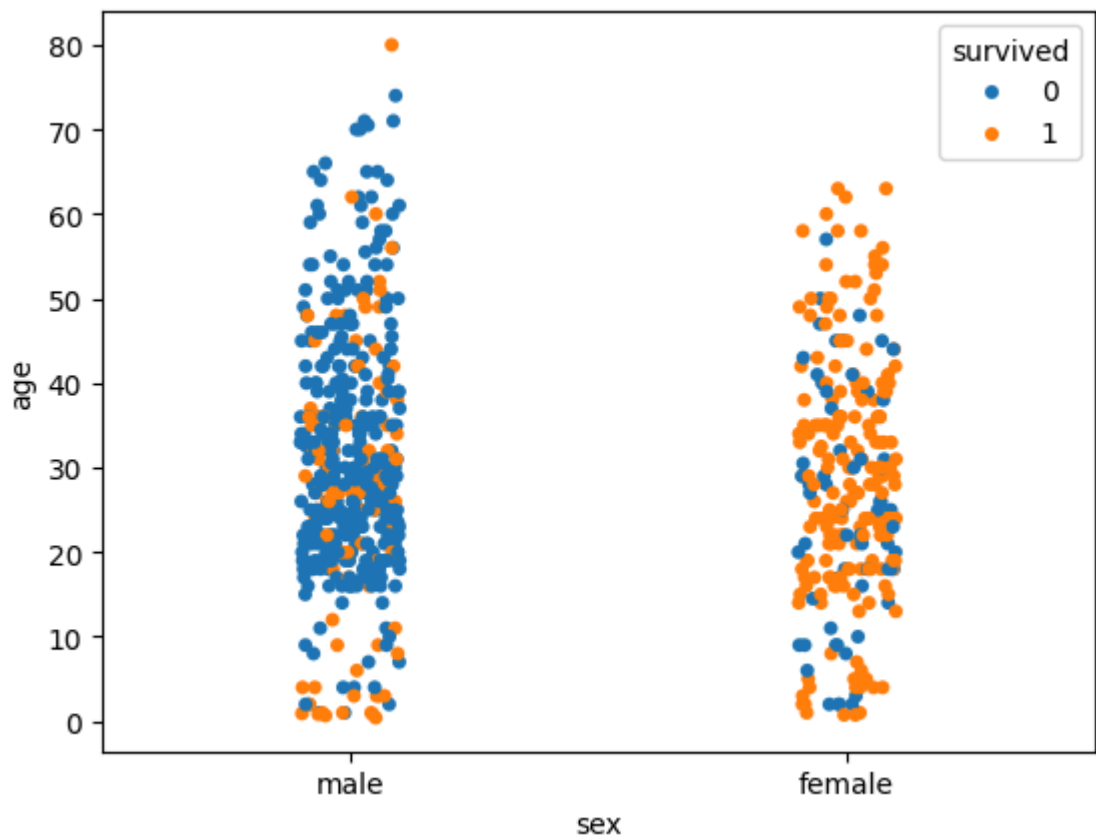
```
In [33]: sns.boxplot(x='sex',y='age',data=titanic)
plt.show()
```



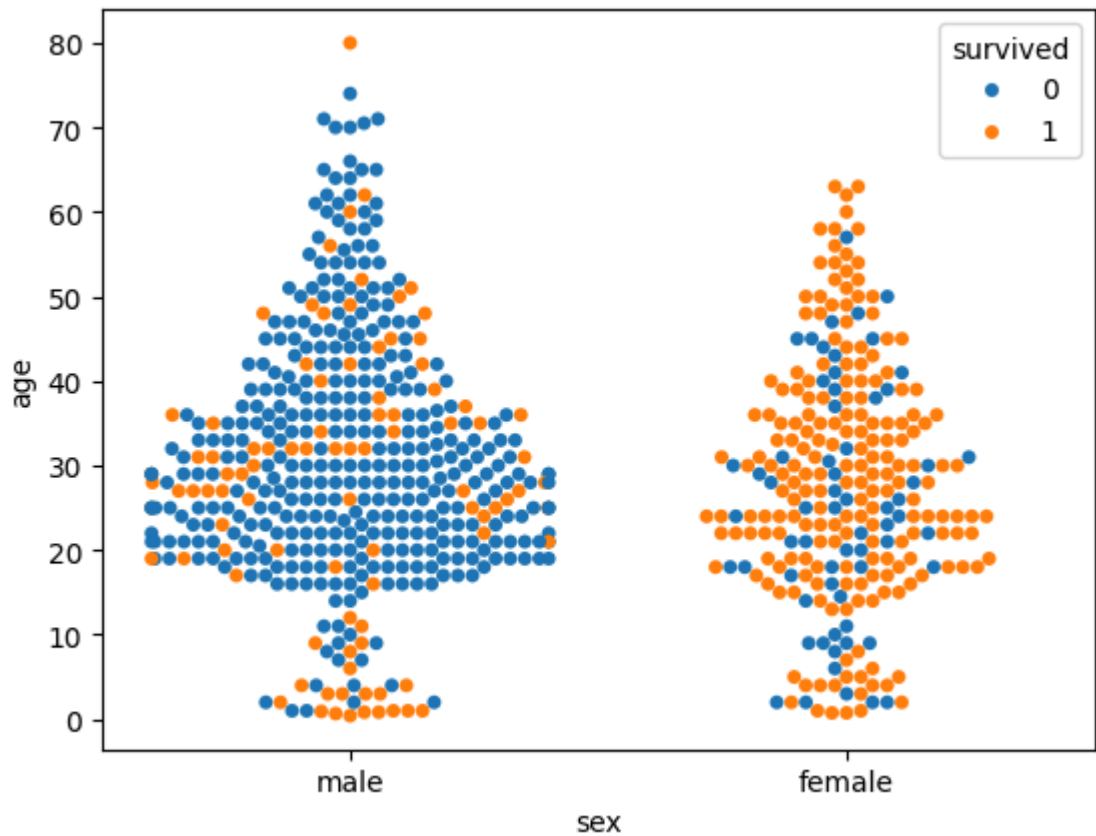
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In [35]: sns.violinplot(x='sex',y='age',hue='survived',data=titanic)
plt.show()
```



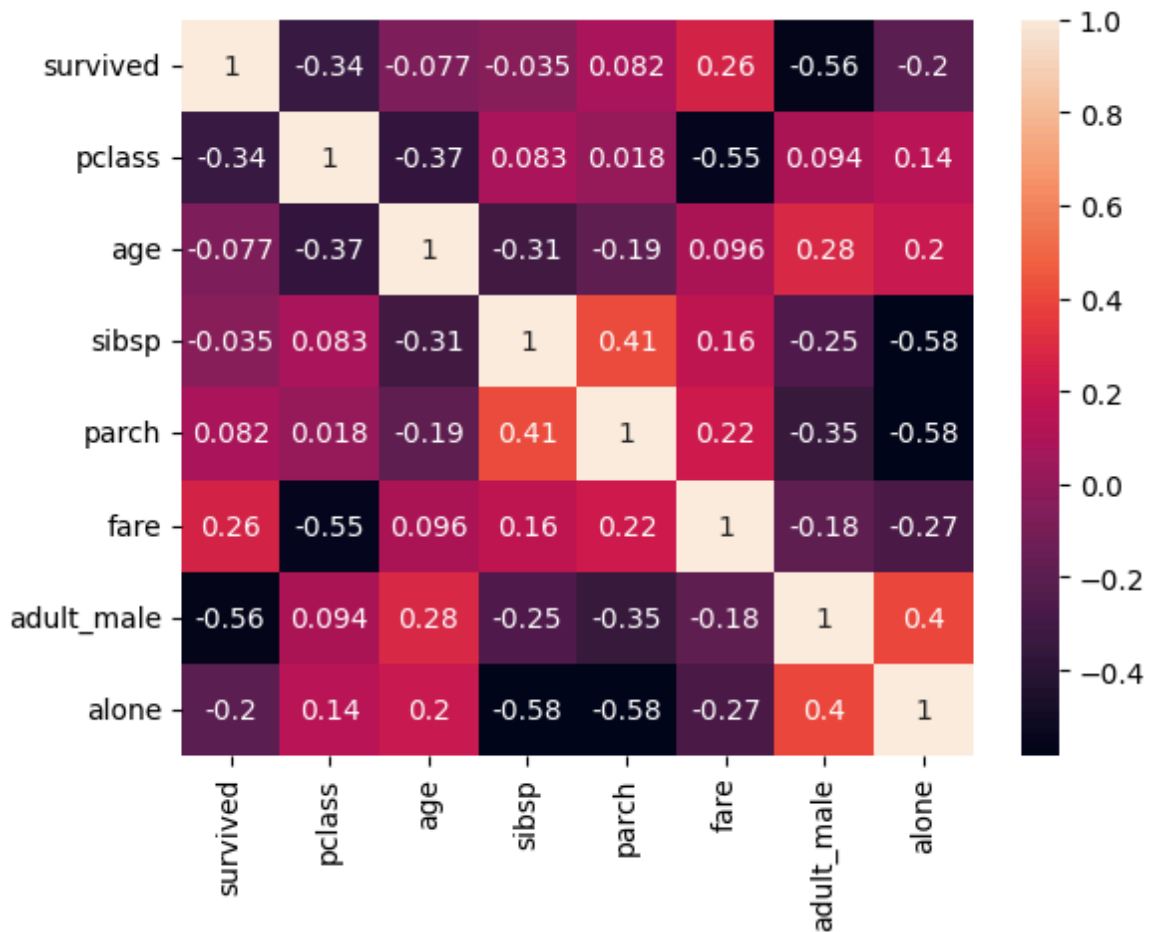
```
In [41]: sns.stripplot(x='sex',y='age',hue='survived',data=titanic,jitter=True)  
plt.show()
```



```
In [42]: sns.swarmplot(x='sex',y='age',hue='survived',data=titanic)  
plt.show()
```

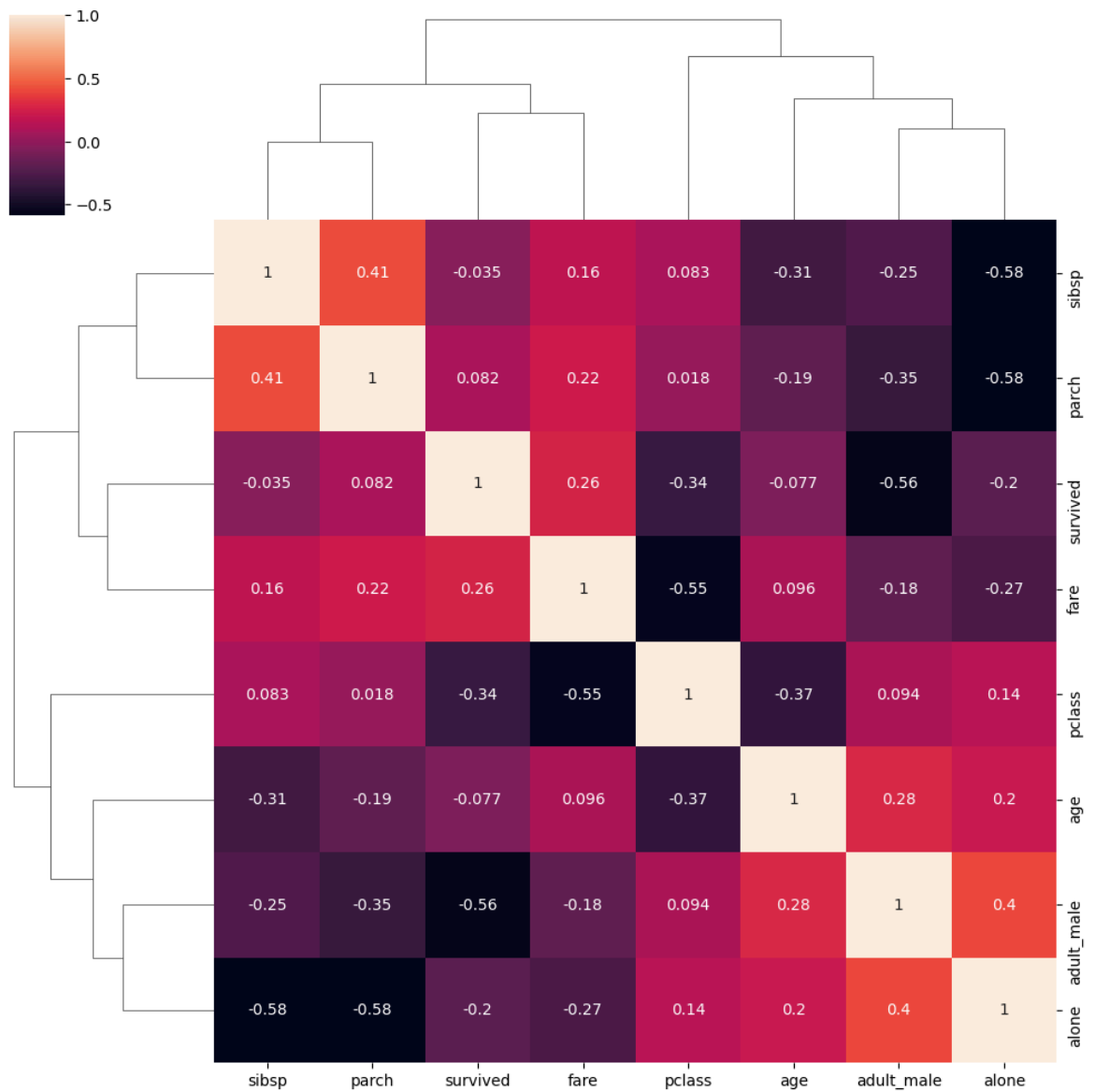


```
In [46]: corr=titanic.corr(numeric_only=True)
sns.heatmap(corr,annot=True)
plt.show()
```

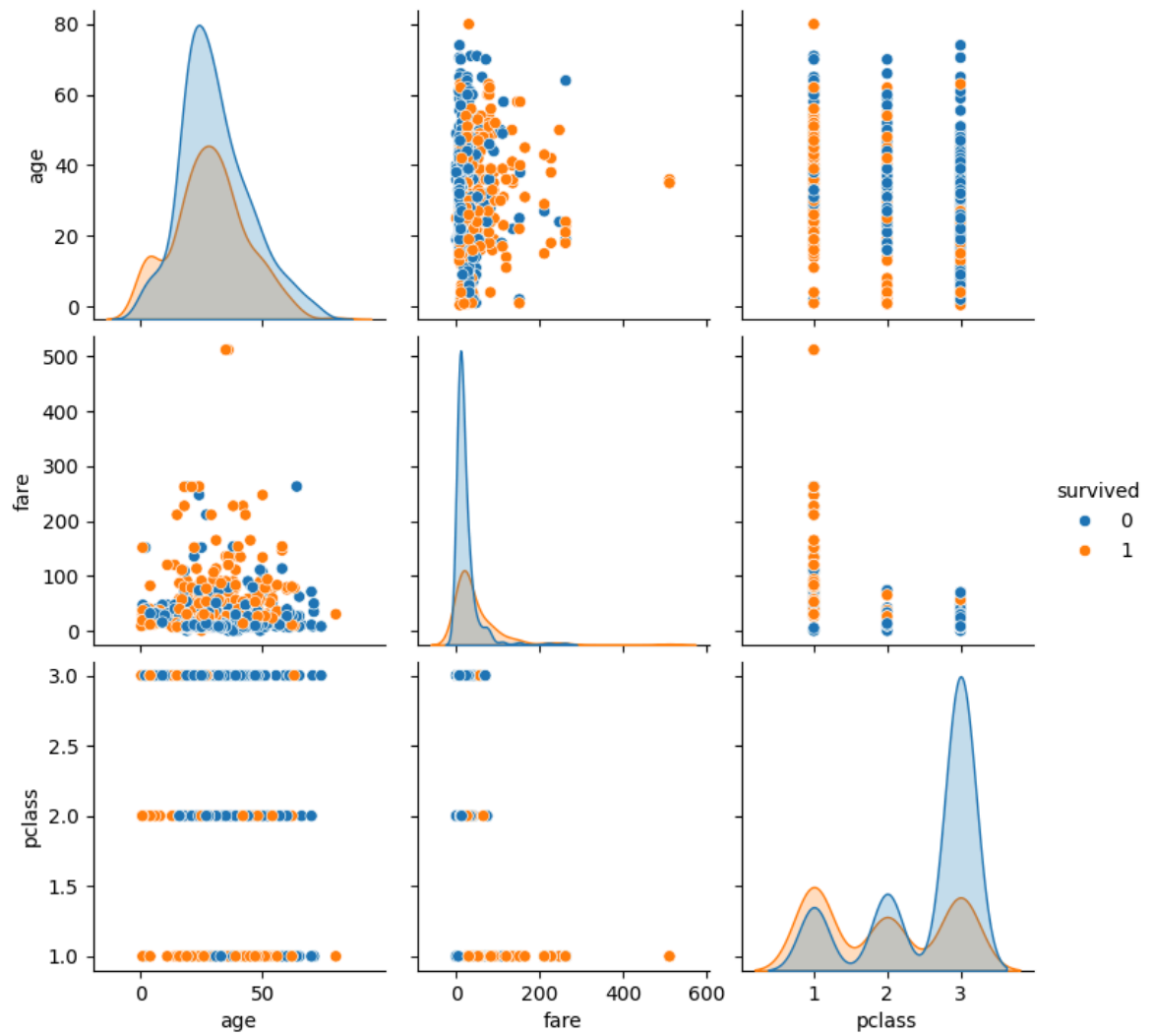




```
In [49]: corr=titanic.corr(numeric_only=True)
sns.clustermap(corr,annot=True)
plt.show()
```



```
In [51]: sns.pairplot(vars=['age', 'fare', 'pclass'], hue='survived', data=titanic)
plt.show()
```



In [ ]: