

```
import matplotlib.pyplot as plt
import seaborn as sns
import pandas as pd
import numpy as np
```

```
df = pd.read_csv("titanic.csv")
print(df.head())
```

	PassengerId	Survived	Pclass	\
0	1	0	3	
1	2	1	1	
2	3	1	3	
3	4	1	1	
4	5	0	3	

		Name	Sex	Age
SibSp	\			
0		Braund, Mr. Owen Harris	male	22.0
1				
1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	
1				
2	Heikkinen, Miss. Laina	female	26.0	
0				
3	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	
1				
4	Allen, Mr. William Henry	male	35.0	
0				

	Parch	Ticket	Fare	Cabin	Embarked
0	0	A/5 21171	7.2500	NaN	S
1	0	PC 17599	71.2833	C85	C
2	0	STON/O2. 3101282	7.9250	NaN	S
3	0	113803	53.1000	C123	S
4	0	373450	8.0500	NaN	S

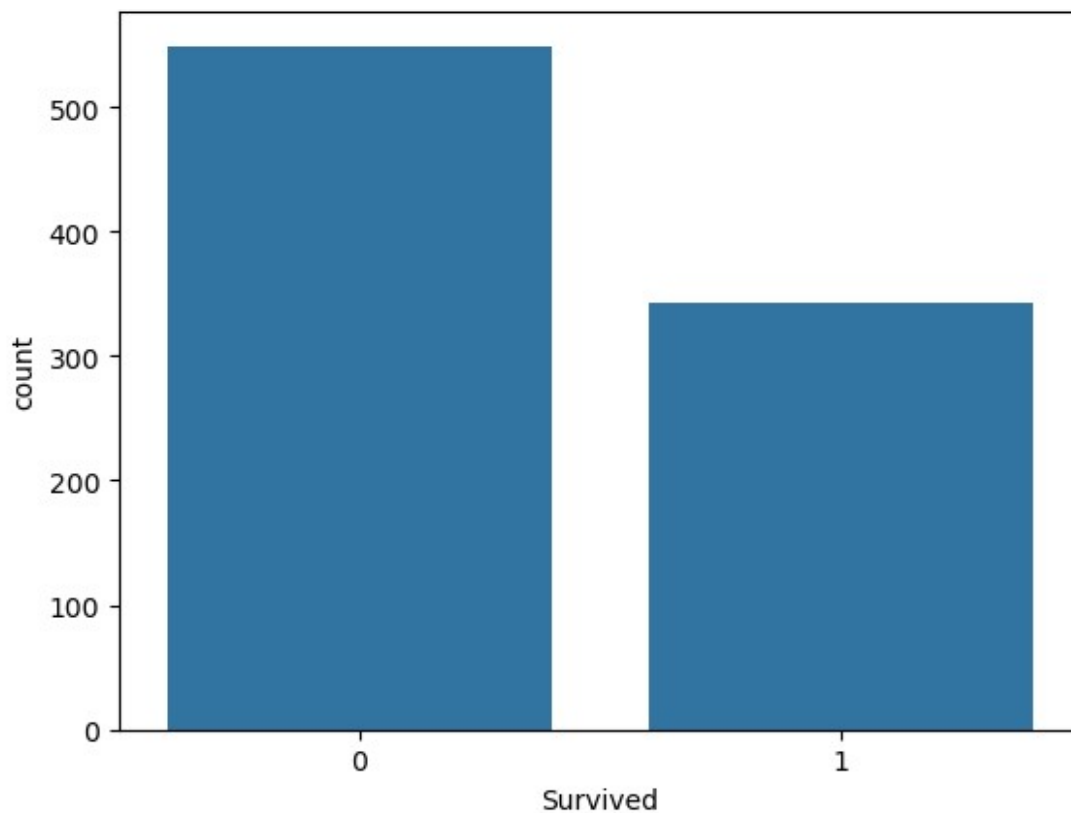
```
print(df.isnull().sum())
```

```
PassengerId    0
Survived        0
Pclass          0
Name            0
Sex             0
Age            177
SibSp           0
Parch           0
Ticket          0
Fare            0
Cabin          687
Embarked        2
dtype: int64
```

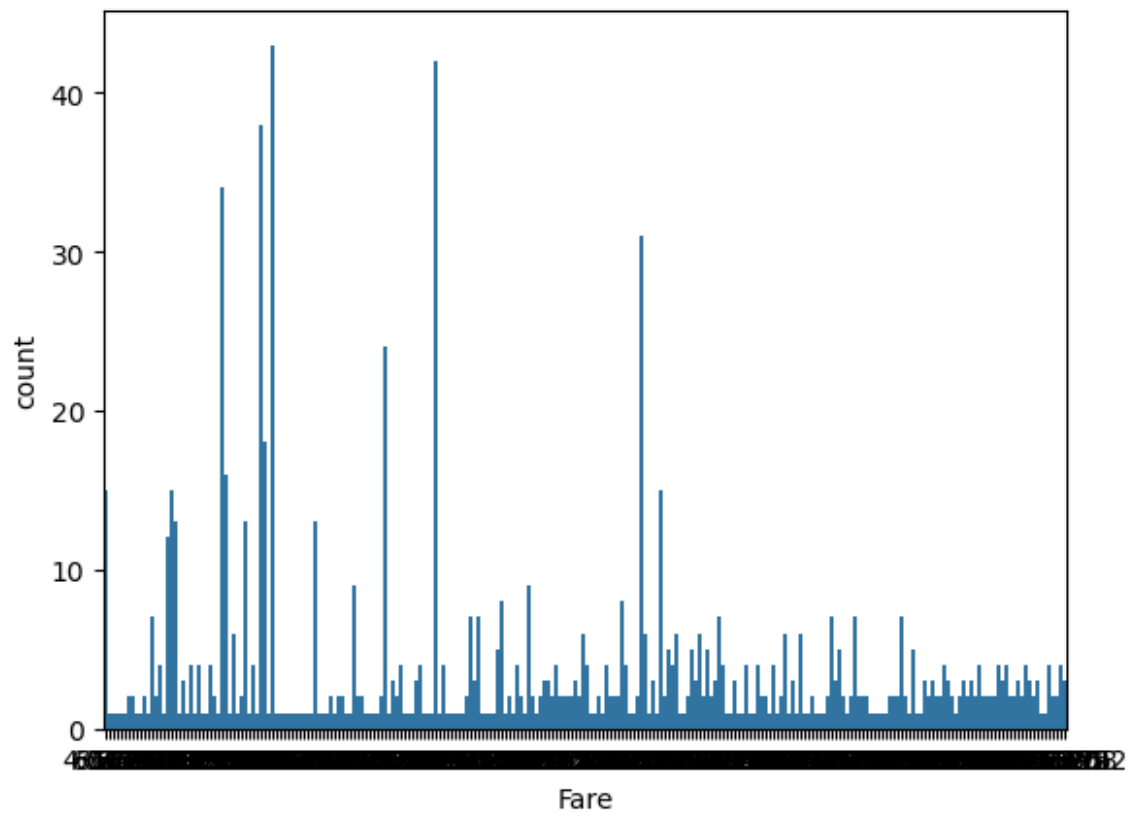
```
print("Number of peoples survived:-> ", df['Survived'].value_counts()  
[1])  
print("Number of peoples Not survived:-> ",  
df['Survived'].value_counts()[0])
```

```
Number of peoples survived:-> 342  
Number of peoples Not survived:-> 549
```

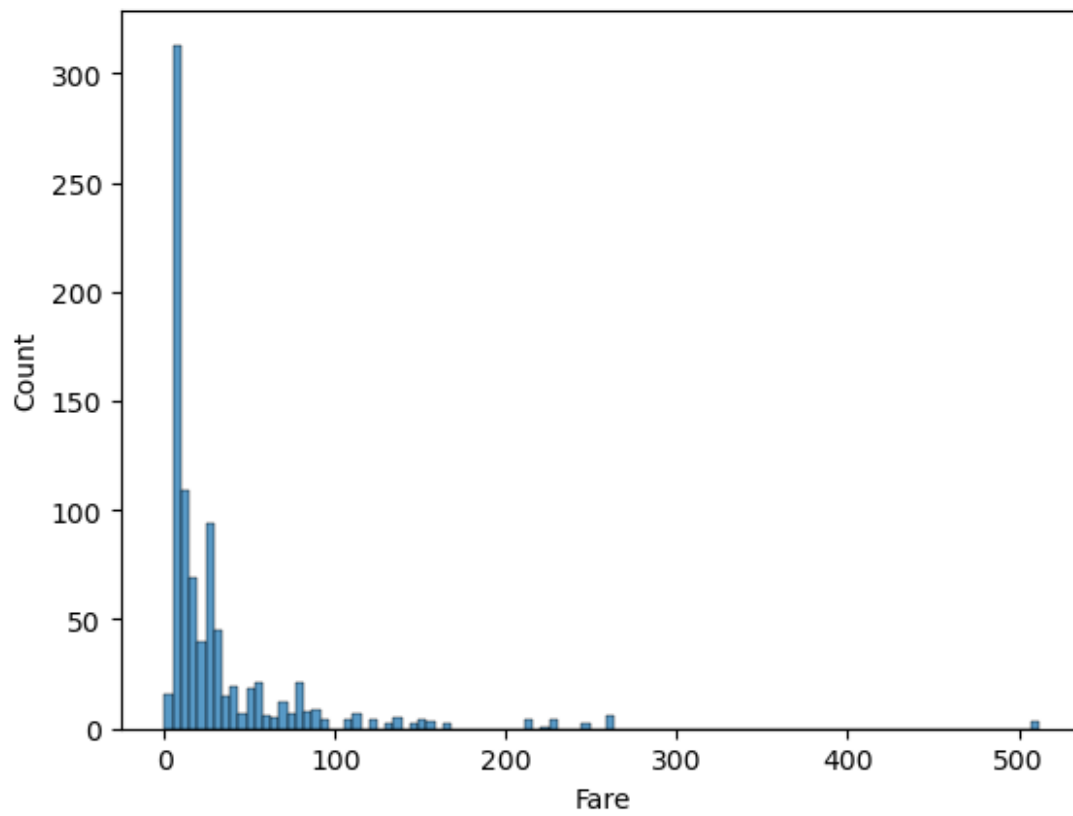
```
sns.countplot(data = df, x='Survived')  
plt.show()
```



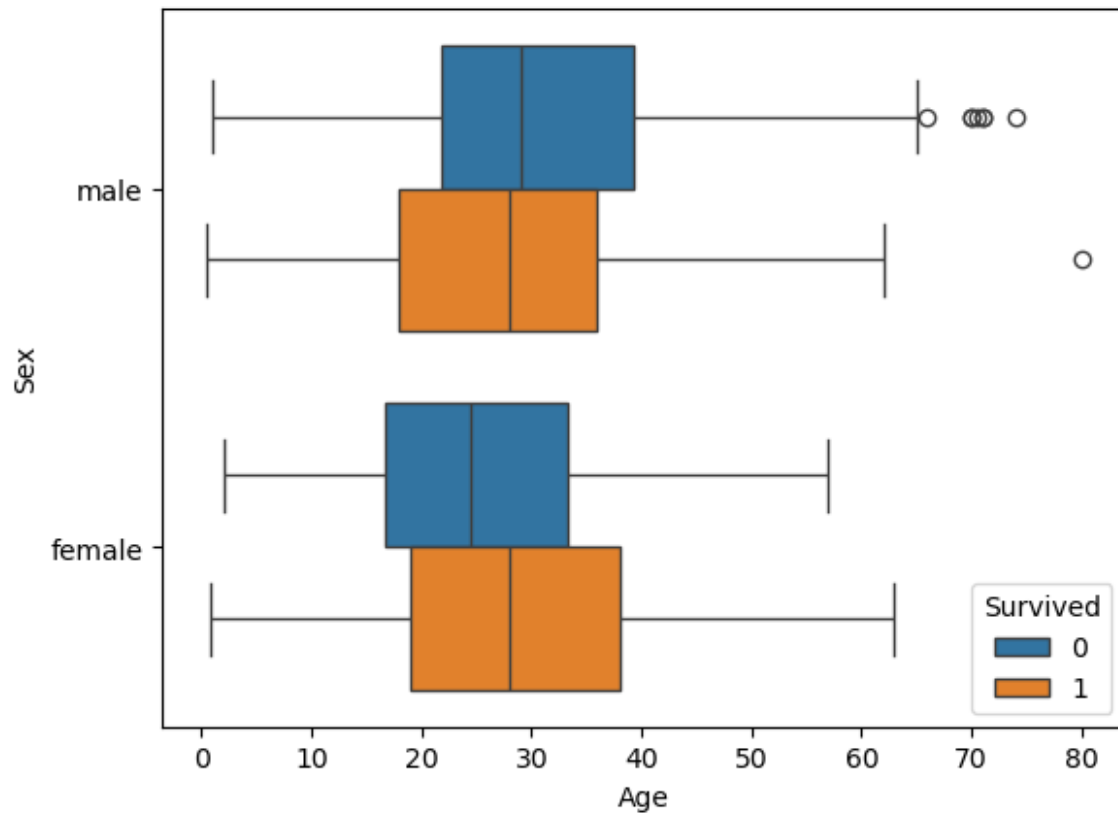
```
sns.countplot(data = df, x='Fare')  
plt.show()
```



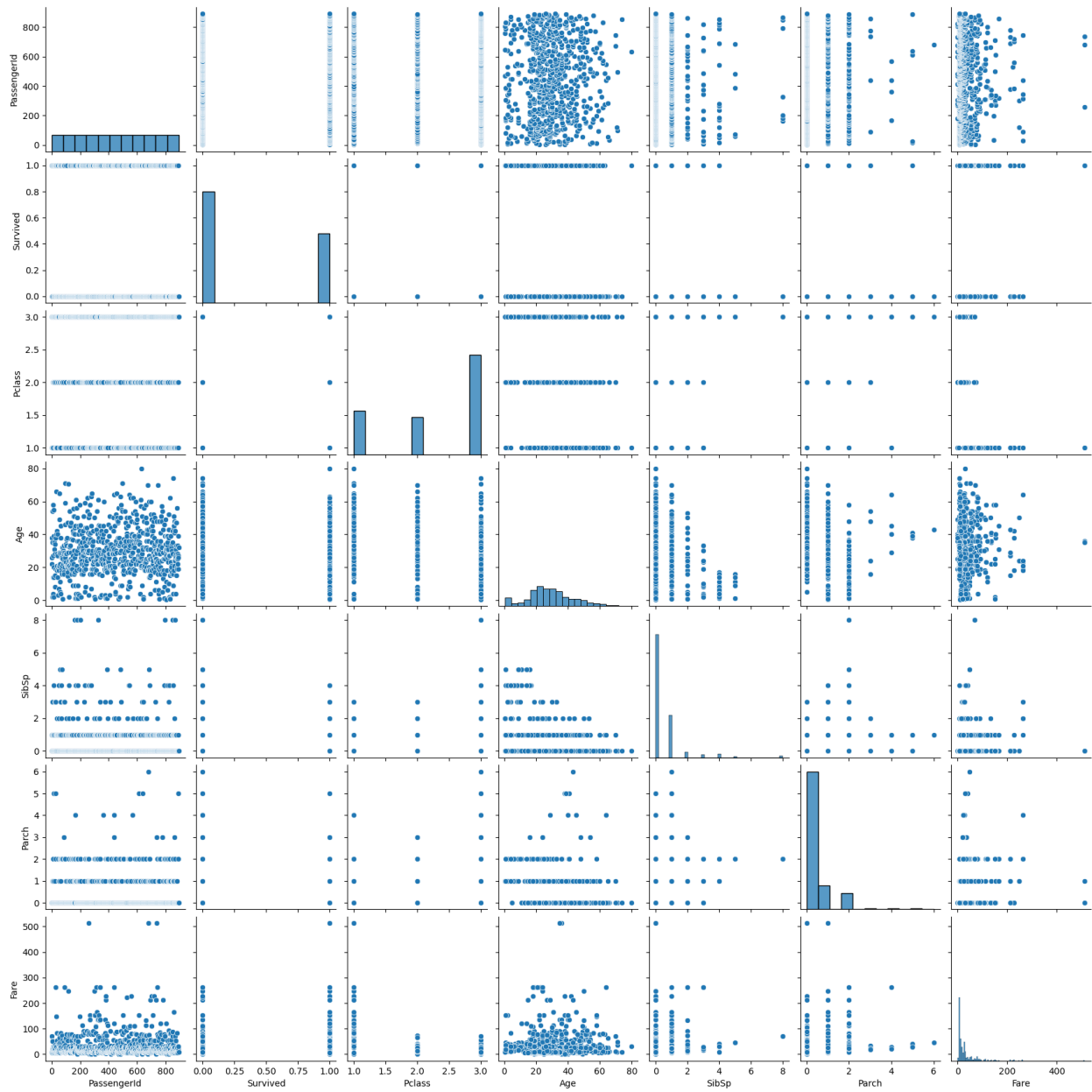
```
sns.histplot(df['Fare'])  
plt.show()
```



```
sns.boxplot(data=df, x='Age', y='Sex', hue='Survived')  
plt.show()
```

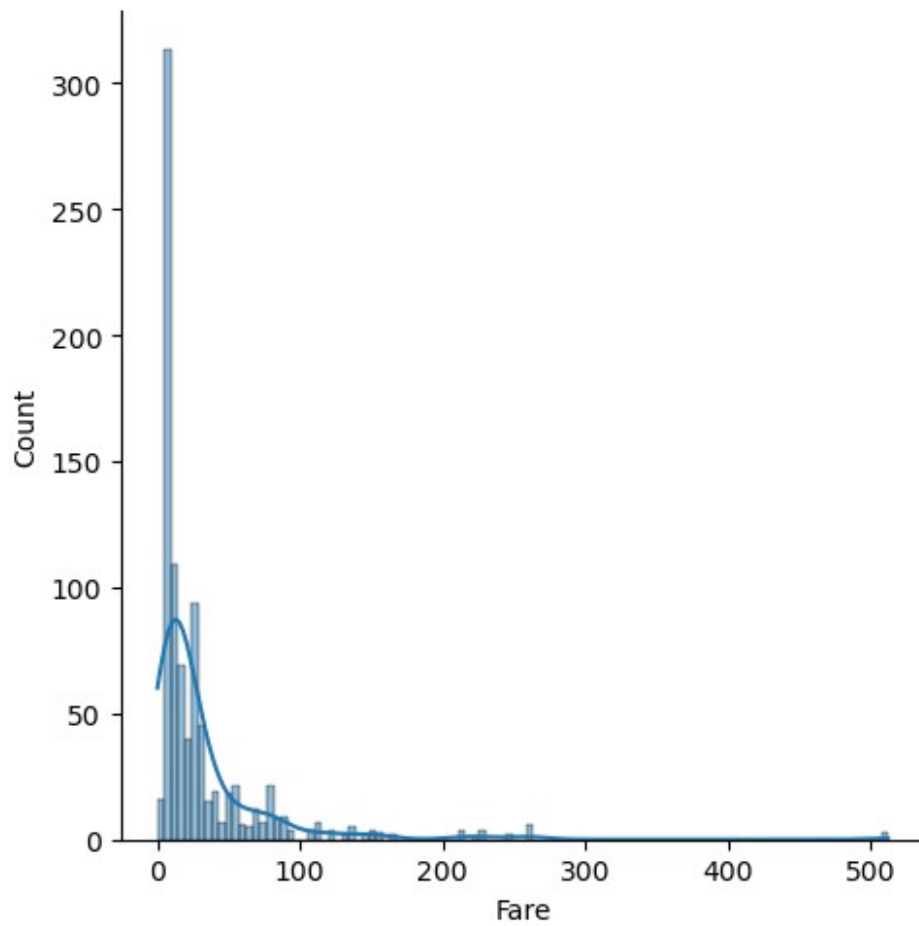


```
sns.pairplot(df)
plt.show()
```

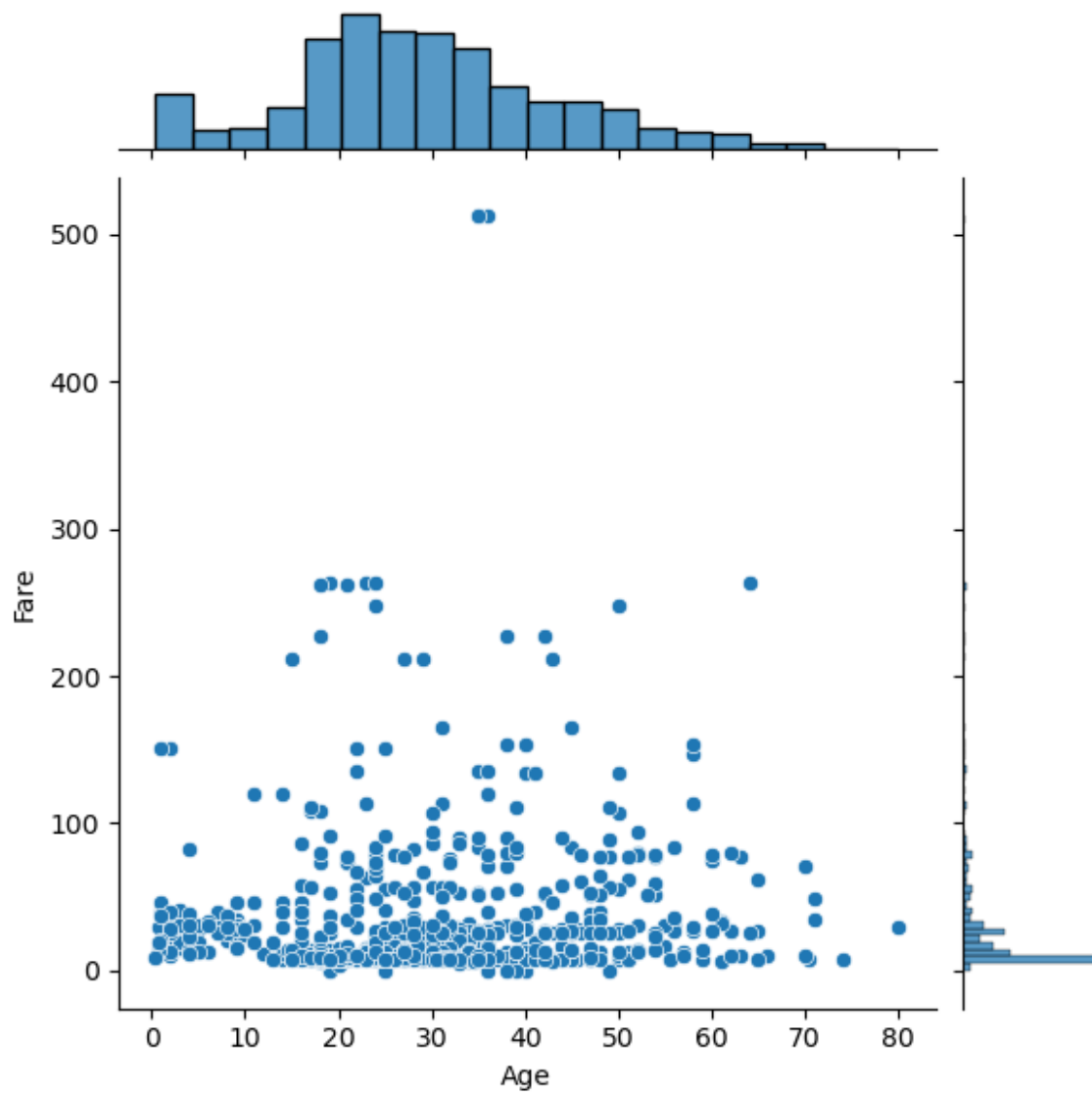


```
sns.displot(df['Fare'], kde=True)
```

```
<seaborn.axisgrid.FacetGrid at 0x2f480c2f9e0>
```



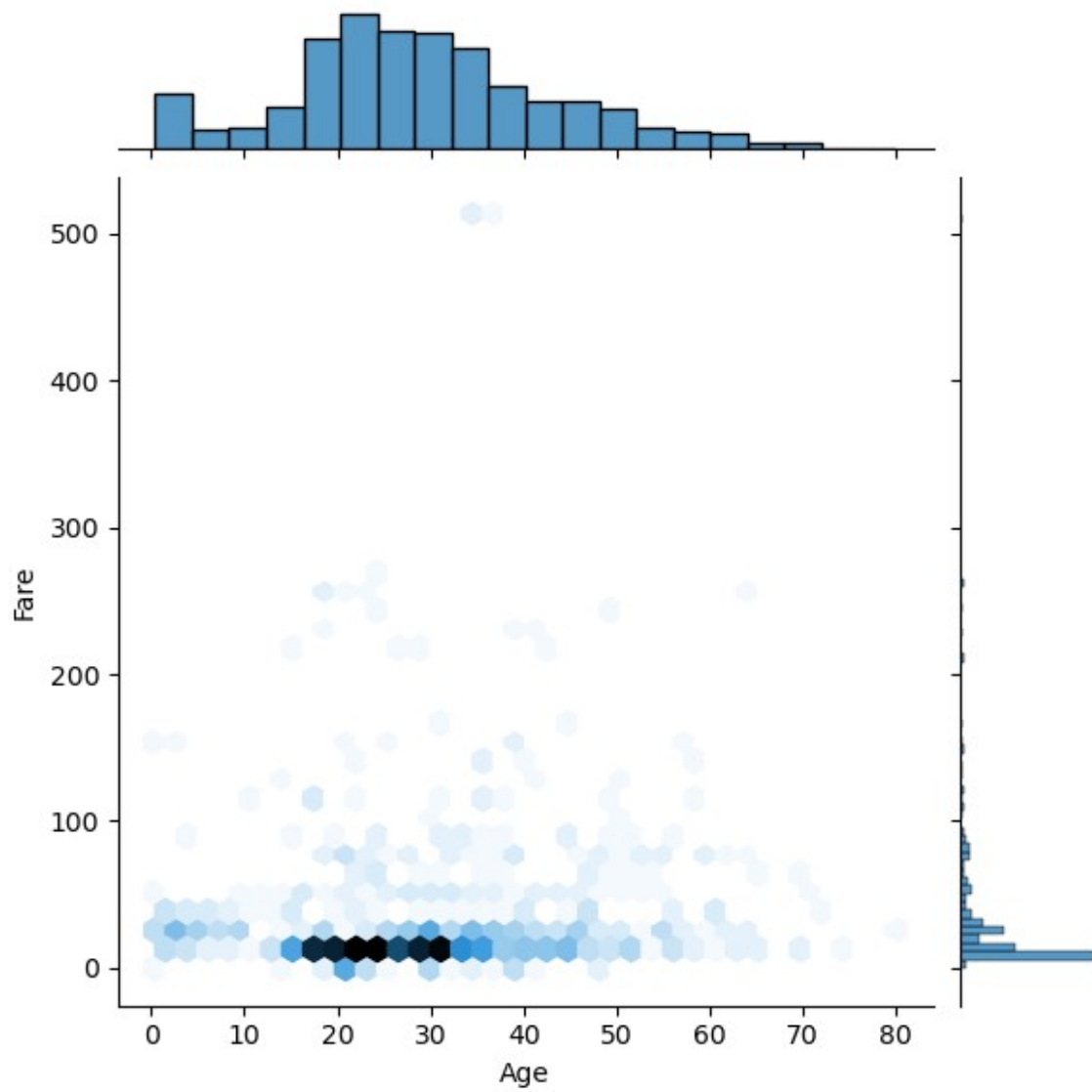
```
sns.jointplot(x='Age', y='Fare', data=df)  
<seaborn.axisgrid.JointGrid at 0x2f480bed5b0>
```



```
sns.jointplot(x='Age', y='Fare', data=df, kind='hex')
```

```
<seaborn.axisgrid.JointGrid at 0x2f480d0cb90>
```





```
sns.boxplot(x='Sex', y='Age', data=df)
```

```
<Axes: xlabel='Sex', ylabel='Age'>
```

