

In [1]:

```
import numpy as np
import seaborn as sns
import pandas as pd
```

In [2]:

```
pd.set_option('display.max_columns', None)
```

In [3]:

```
data = pd.read_csv("titanic.csv")
```

In [4]:

data.head(10)

Out[4]:

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...)	female	38.0	1	0	PC 17599	71.2833
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000
4	5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500
5	6	0	3	Moran, Mr. James	male	NaN	0	0	330877	8.4583
6	7	0	1	McCarthy, Mr. Timothy J	male	54.0	0	0	17463	51.8625
7	8	0	3	Palsson, Master. Gosta Leonard	male	2.0	3	1	349909	21.0750
8	9	1	3	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	female	27.0	0	2	347742	11.1333
9	10	1	2	Nasser, Mrs. Nicholas (Adele Achem)	female	14.0	1	0	237736	30.0708

In [5]:

```
data.describe()
```

Out[5]:

	PassengerId	Survived	Pclass	Age	SibSp	Parch	Fare
<b>count</b>	891.000000	891.000000	891.000000	714.000000	891.000000	891.000000	891.000000
<b>mean</b>	446.000000	0.383838	2.308642	29.699118	0.523008	0.381594	32.204208
<b>std</b>	257.353842	0.486592	0.836071	14.526497	1.102743	0.806057	49.693429
<b>min</b>	1.000000	0.000000	1.000000	0.420000	0.000000	0.000000	0.000000
<b>25%</b>	223.500000	0.000000	2.000000	20.125000	0.000000	0.000000	7.910400
<b>50%</b>	446.000000	0.000000	3.000000	28.000000	0.000000	0.000000	14.454200
<b>75%</b>	668.500000	1.000000	3.000000	38.000000	1.000000	0.000000	31.000000
<b>max</b>	891.000000	1.000000	3.000000	80.000000	8.000000	6.000000	512.329200

In [6]:

```
data.isnull().sum()
```

Out[6]:

```

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

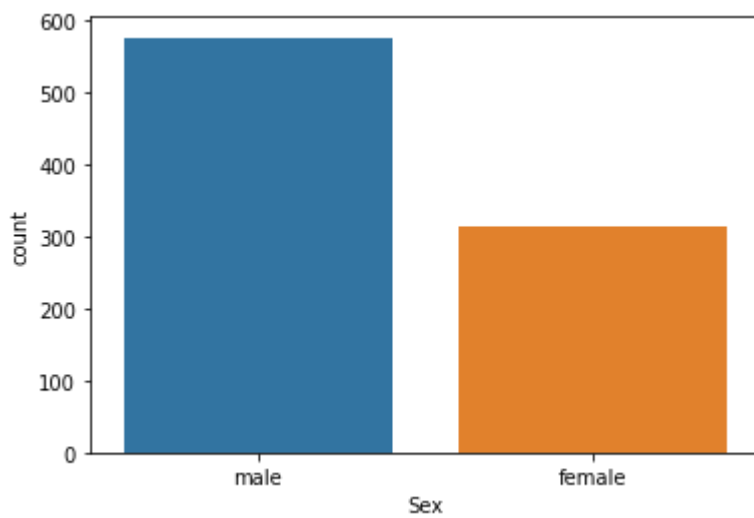
```

In [7]:

```
sns.countplot(x='Sex',data=data)
```

Out[7]:

<AxesSubplot:xlabel='Sex', ylabel='count'>

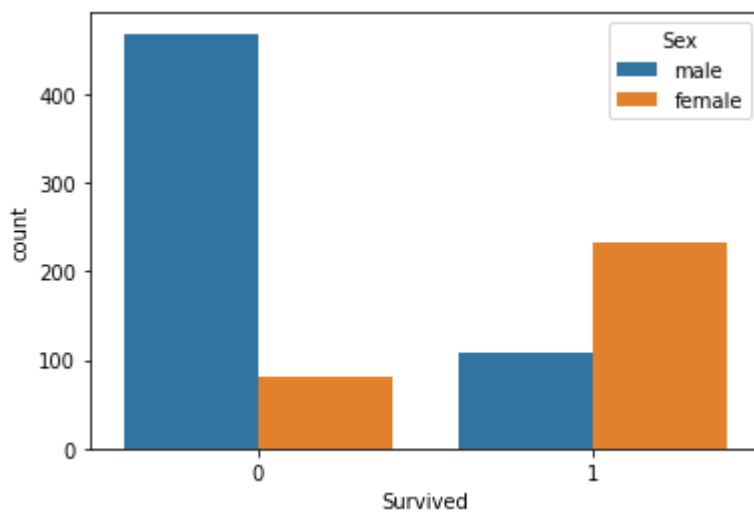


In [8]:

```
sns.countplot(x='Survived',hue='Sex',data=data)
```

Out[8]:

<AxesSubplot:xlabel='Survived', ylabel='count'>

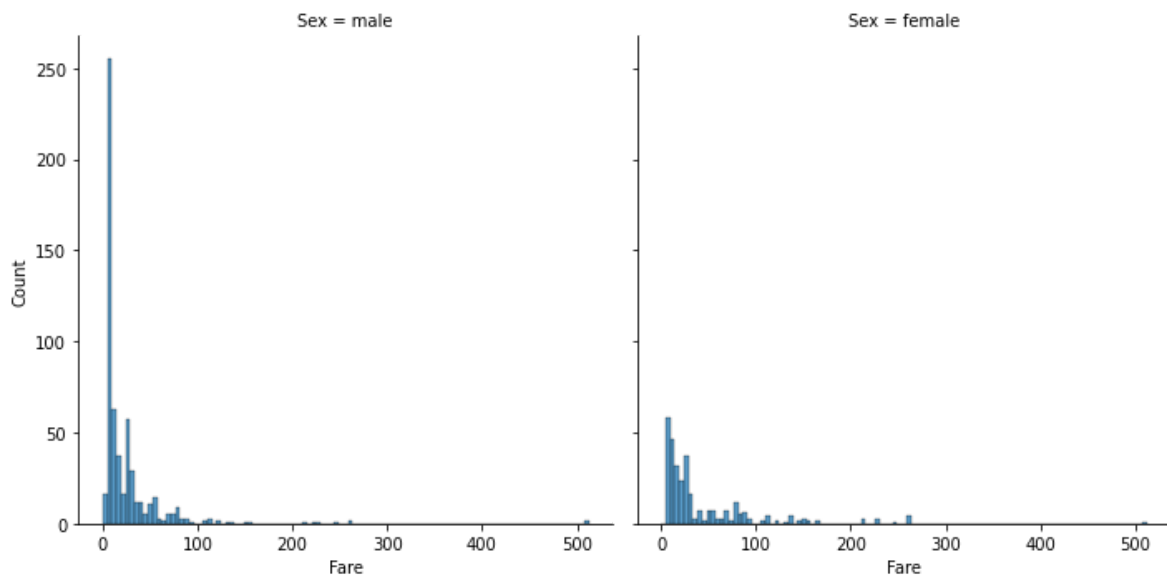


In [9]:

```
sns.displot(data, x="Fare", col="Sex")
```

Out[9]:

<seaborn.axisgrid.FacetGrid at 0x7fcf943f2dd8>

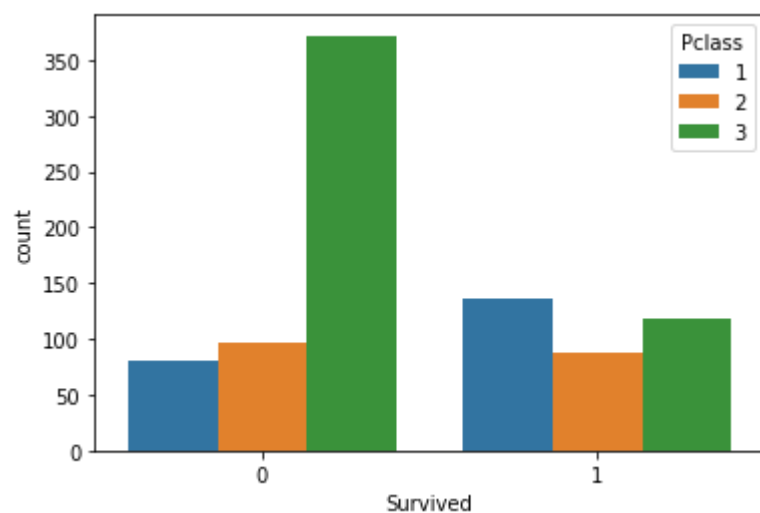


In [10]:

```
sns.countplot(x='Survived', hue='Pclass', data=data)
```

Out[10]:

<AxesSubplot:xlabel='Survived', ylabel='count'>

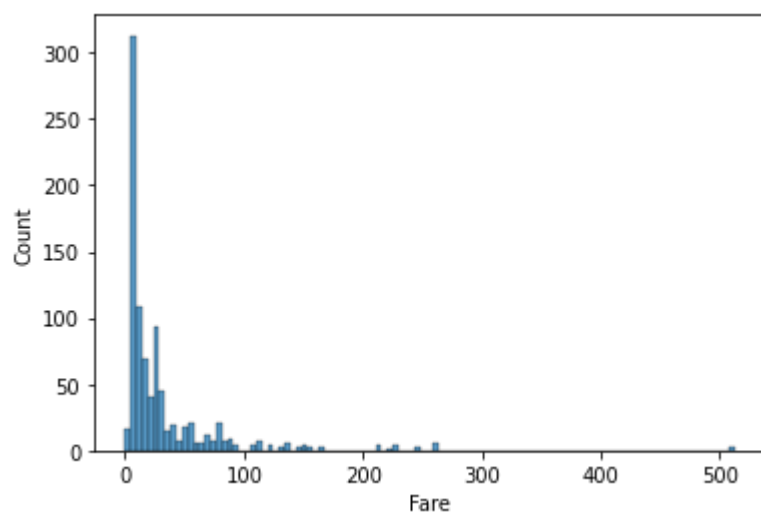


In [11]:

```
sns.histplot(data=data, x="Fare")
```

Out[11]:

<AxesSubplot:xlabel='Fare', ylabel='Count'>



In [ ]:

In [ ]: