

In [1]:

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sbn
import warnings
warnings.filterwarnings('ignore')
```

In [2]:

```
df = pd.read_csv('Titanic-Dataset.csv')
df.head()
```

Out[2]:

	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	E
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	NaN	
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	0	PC 17599	71.2833	C85	
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	NaN	
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000	C123	
4	5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500	NaN	

In [3]:

```
df.dtypes
```

Out[3]:

```
PassengerId    int64
Survived        int64
Pclass          int64
Name            object
Sex             object
Age            float64
SibSp           int64
Parch           int64
Ticket          object
Fare            float64
Cabin           object
Embarked        object
dtype: object
```

In [4]:

```
df.drop(columns=['Cabin'], inplace=True)
```

In [5]:

```
df['Age'].fillna(df['Age'].median(), inplace=True)
```

In [6]:

```
df['Fare'].fillna(df['Fare'].median(), inplace=True)
```

In [7]:

```
df.isna().sum()
```

Out[7]:

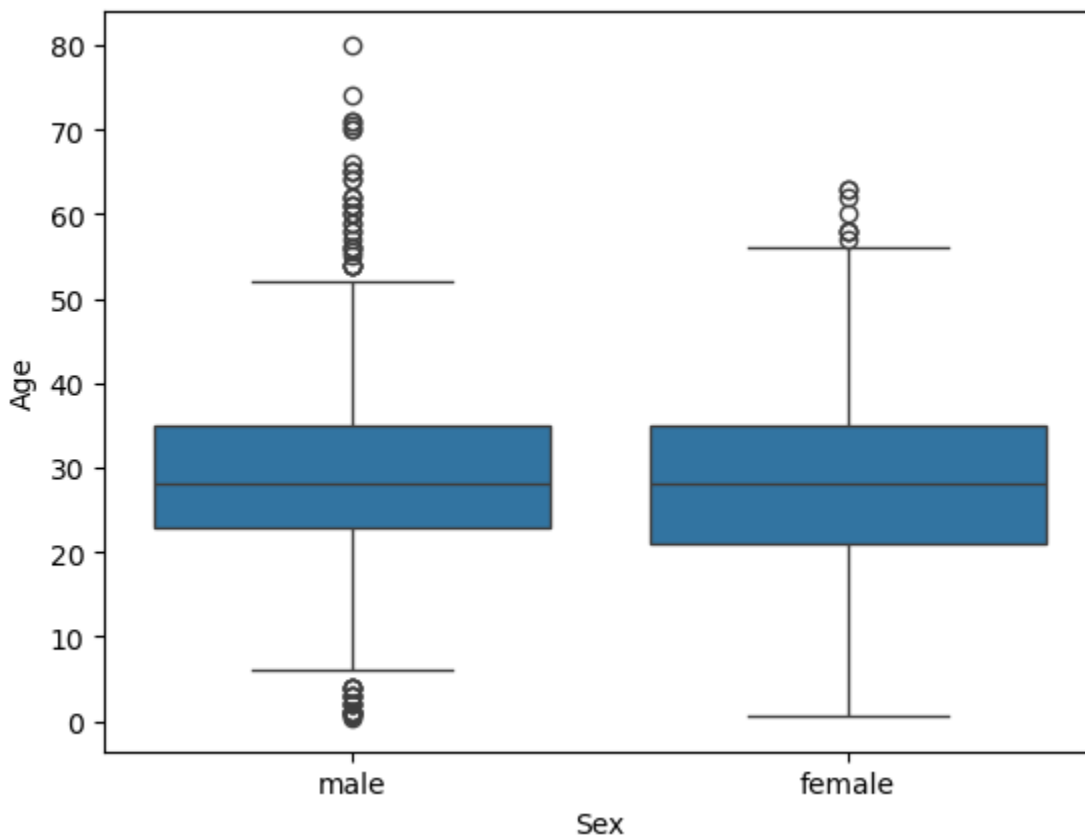
```
PassengerId    0
Survived        0
Pclass          0
Name            0
Sex             0
Age             0
SibSp           0
Parch           0
Ticket          0
Fare            0
Embarked        2
dtype: int64
```

In [8]:

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

Out[8]:

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

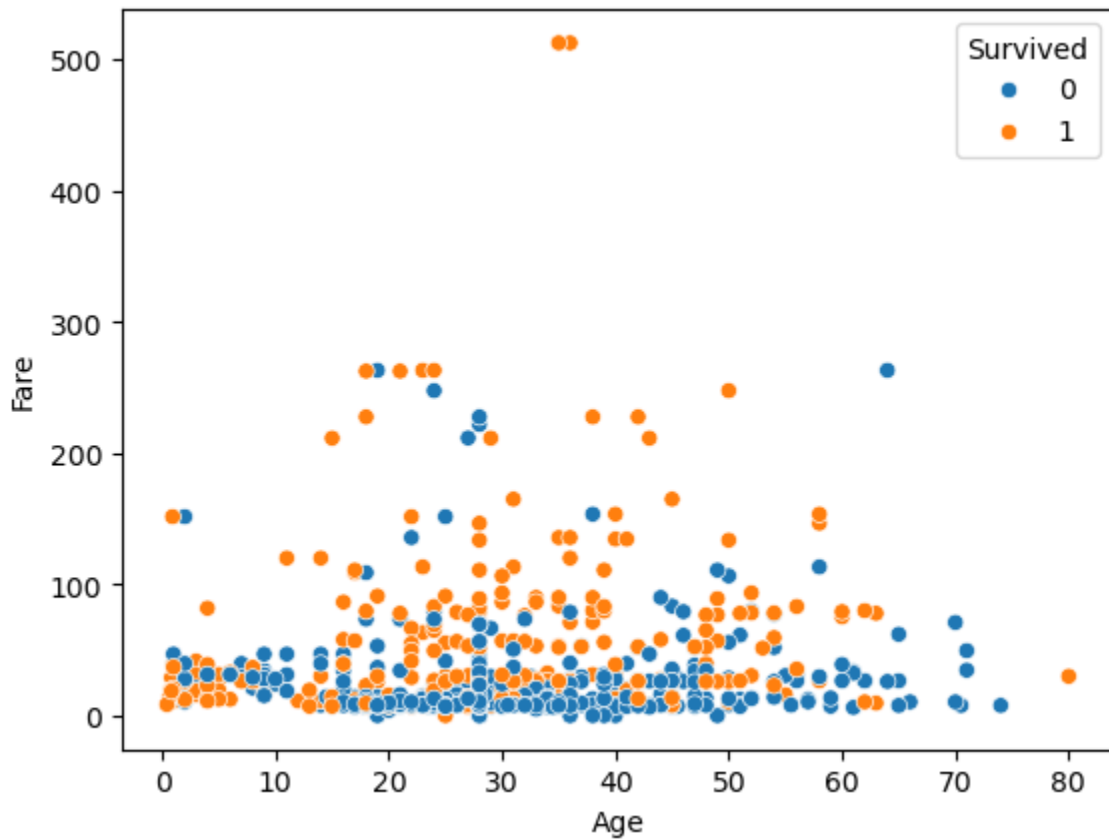


In [9]:

```
sbn.scatterplot(data=df, x='Age', y='Fare', hue='Survived')
```

Out[9]:

<Axes: xlabel='Age', ylabel='Fare'>

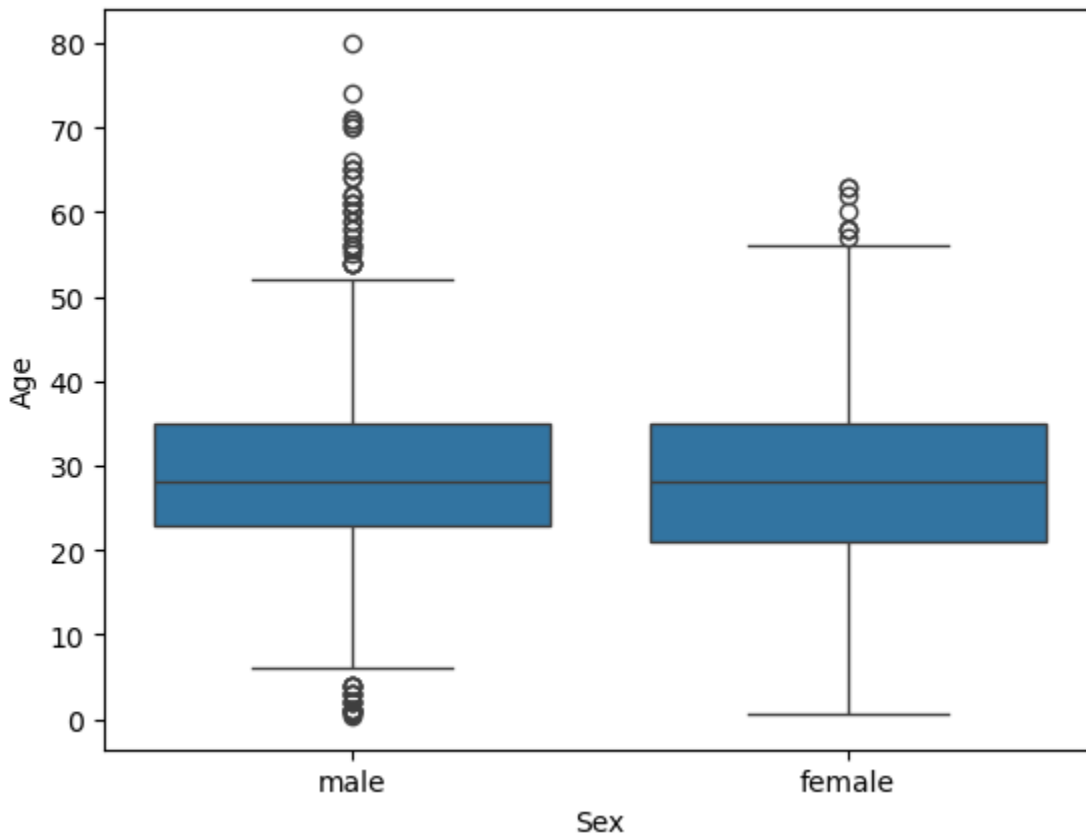


In [10]:

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

Out[10]:

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

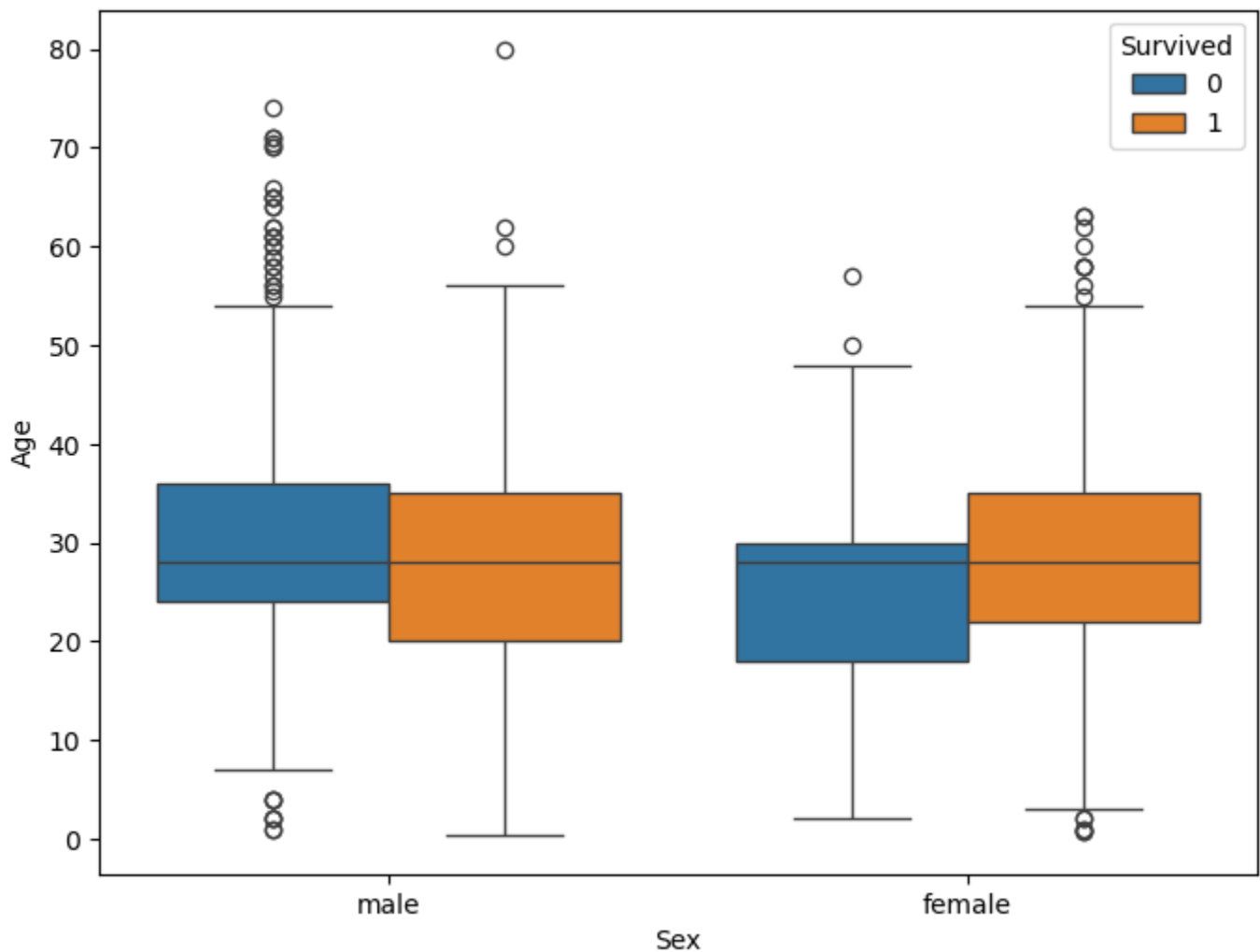


In [11]:

```
%matplotlib inline
```

In [12]:

```
plt.figure(figsize=(8,6))  
sbn.boxplot(x='Sex', y='Age', hue='Survived', data=df)  
plt.show()
```

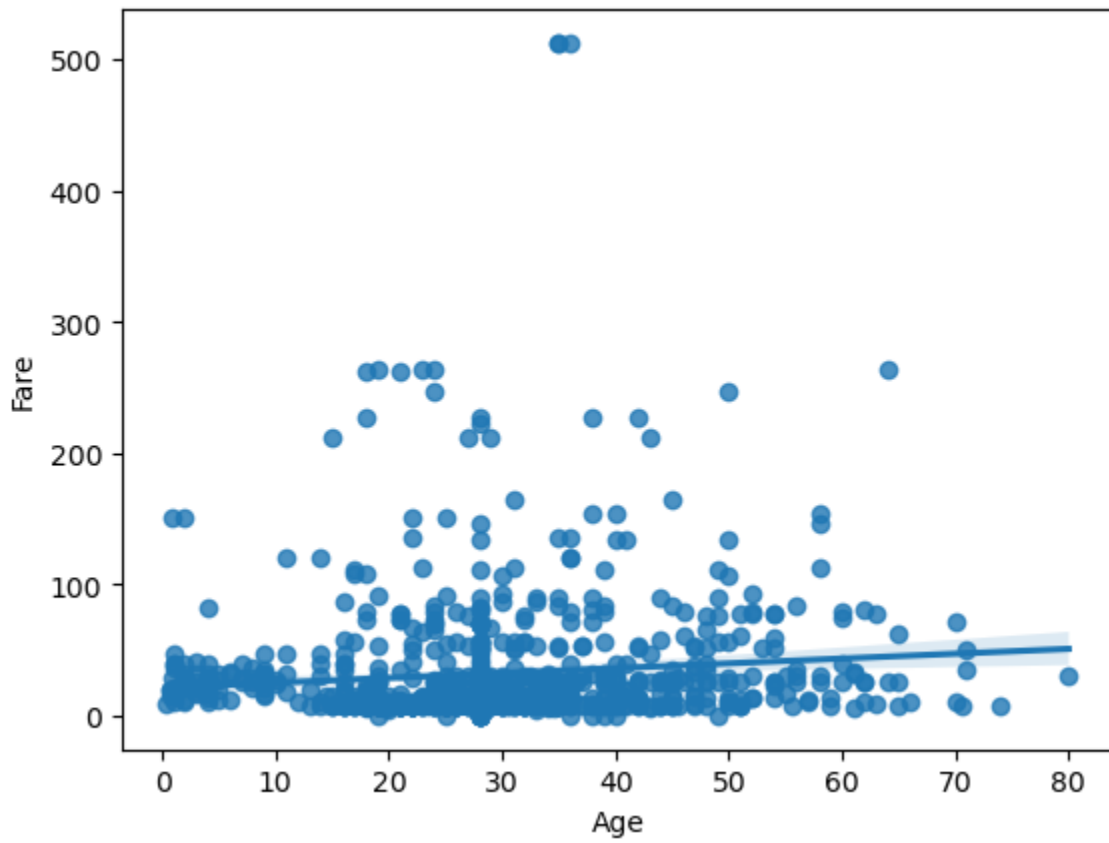


In [13]:

```
sbn.regplot(data=df, x='Age', y='Fare')
```

Out[13]:

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



In [14]:

```
df['Survived'] = df['Survived'].astype('object')
```