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

In [2]:
```
df = sns.load_dataset('titanic')
df                                          #v
```

Out[2]:

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_mal
0	0	3	male	22.0	1	0	7.2500	S	Third	man	Tru
1	1	1	female	38.0	1	0	71.2833	C	First	woman	Fals
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	Fals
3	1	1	female	35.0	1	0	53.1000	S	First	woman	Fals
4	0	3	male	35.0	0	0	8.0500	S	Third	man	Tru
...	...	...	...	...	...	...	...	...	...	...	.
886	0	2	male	27.0	0	0	13.0000	S	Second	man	Tru
887	1	1	female	19.0	0	0	30.0000	S	First	woman	Fals
888	0	3	female	NaN	1	2	23.4500	S	Third	woman	Fals
889	1	1	male	26.0	0	0	30.0000	C	First	man	Tru
890	0	3	male	32.0	0	0	7.7500	Q	Third	man	Tru

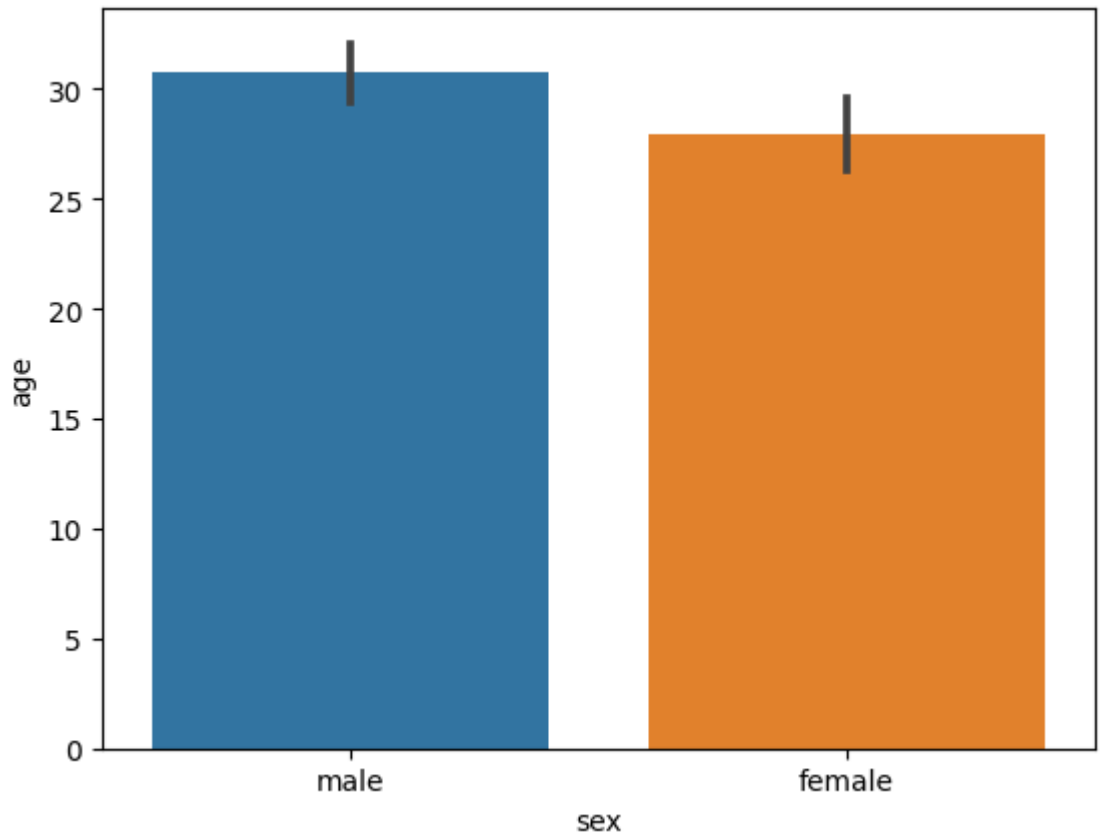
891 rows × 15 columns

In [3]:
```
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 891 entries, 0 to 890
Data columns (total 15 columns):
 #   Column       Non-Null Count  Dtype   
---  ------       --------------  -----   
 0   survived     891 non-null    int64   
 1   pclass       891 non-null    int64   
 2   sex          891 non-null    object  
 3   age          714 non-null    float64 
 4   sibsp        891 non-null    int64   
 5   parch        891 non-null    int64   
 6   fare         891 non-null    float64 
 7   embarked     889 non-null    object  
 8   class        891 non-null    category
 9   who          891 non-null    object  
 10  adult_male   891 non-null    bool    
 11  deck         203 non-null    category
 12  embark_town  889 non-null    object  
 13  alive        891 non-null    object  
 14  alone        891 non-null    bool    
dtypes: bool(2), category(2), float64(2), int64(4), object(5)
memory usage: 80.7+ KB
```

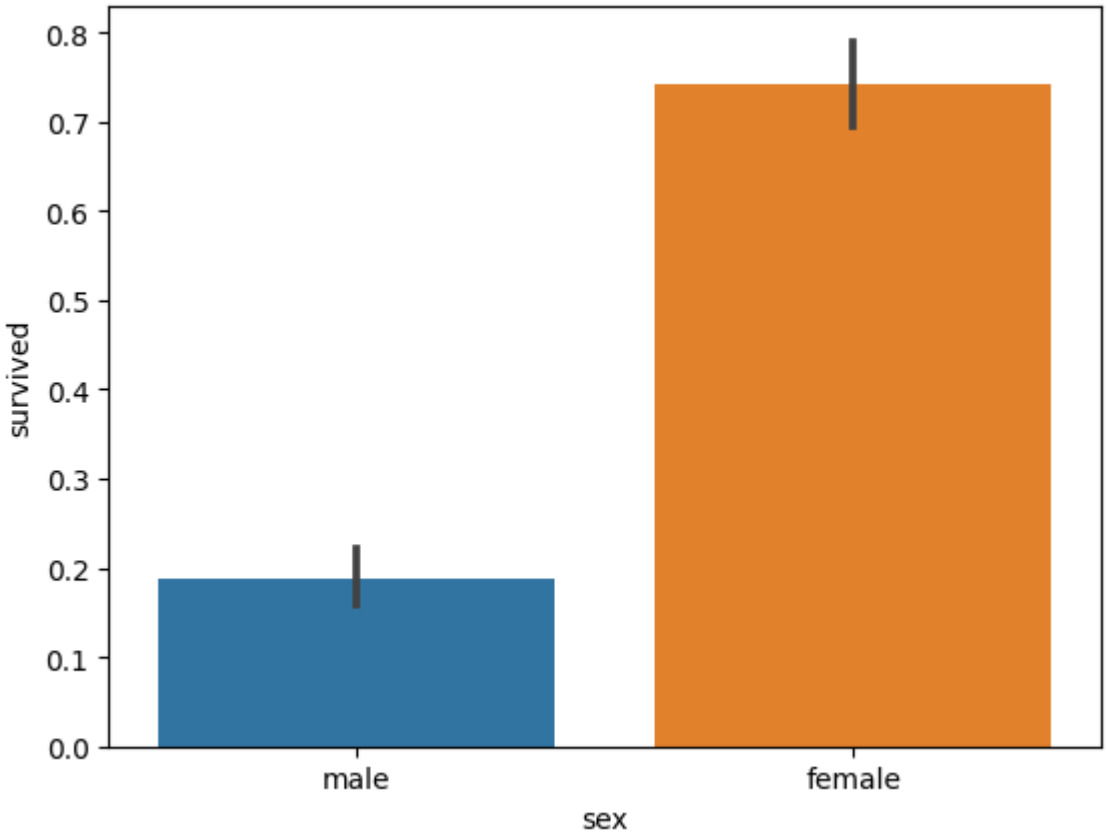
In [5]:
```
sns.barplot(x='sex',y='age',data=df)                    #1
```

Out[5]: <Axes: xlabel='sex', ylabel='age'>



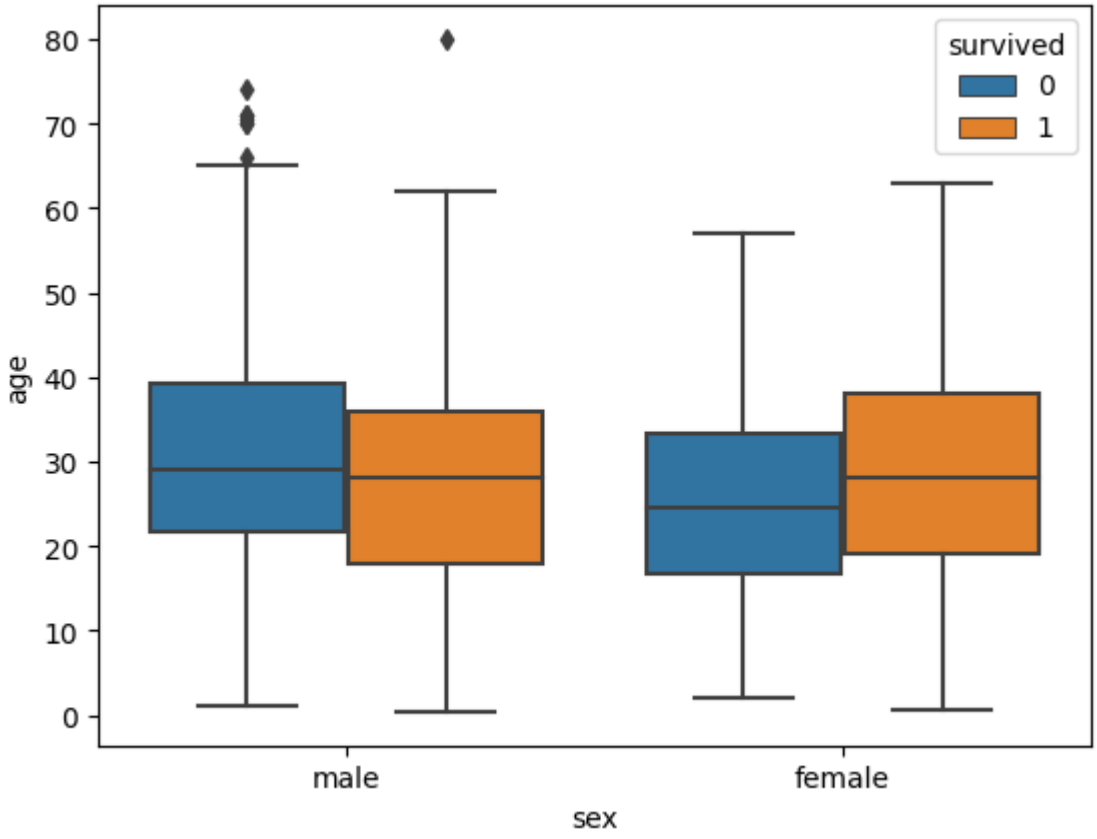
In [4]:
```
sns.barplot(x='sex',y='survived',data=df)
print("% of Male Survied :",df['survived'][df['sex']=='female'].value_counts(nc
print("% of Female Survied :",df['survived'][df['sex']=='male'].value_counts(nc
```

```
% of Male Survied : 25.796178343949045
% of Female Survied : 81.10918544194108
```



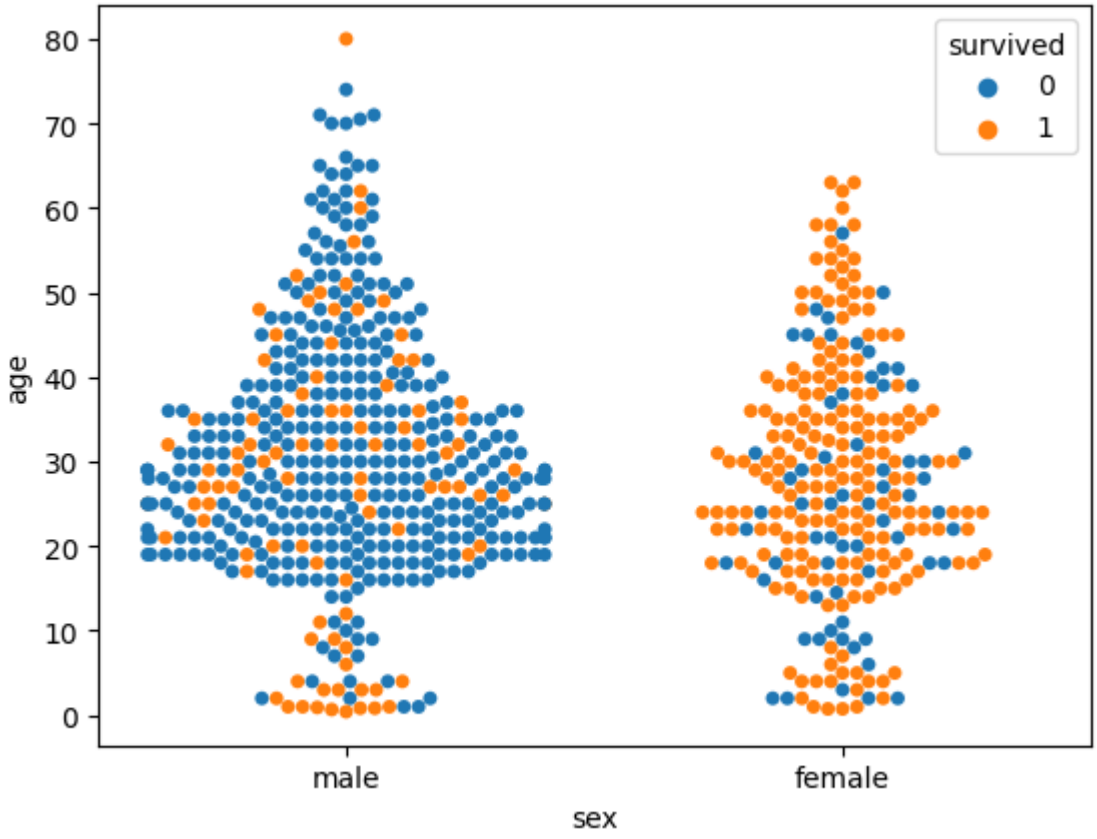
In [6]:
```
sns.boxplot(x='sex', y='age', data=df, hue='survived')                #c
```

Out[6]:
```
<Axes: xlabel='sex', ylabel='age'>
```



In [8]:
```
sns.swarmplot(x='sex', y='age', data=df, hue='survived')
```

Out[8]:
```
<Axes: xlabel='sex', ylabel='age'>
```



In [ ]: