

```
import seaborn as sns
```

```
df=sns.load_dataset('titanic')
df
```

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

891 rows × 15 columns

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

survived	0
pclass	0
sex	0
age	177
sibsp	0
parch	0
fare	0
embarked	2
class	0
who	0
adult_male	0
deck	688
embark_town	2
alive	0
alone	0
dtype:	int64

```
df.drop('deck',inplace=True,axis = 1)
df
```

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male	embark_
0	0	3	male	22.0	1	0	7.2500	S	Third	man	True	Southarr
1	1	1	female	38.0	1	0	71.2833	C	First	woman	False	Chert
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	False	Southarr
3	1	1	female	35.0	1	0	53.1000	S	First	woman	False	Southarr

```
df.dropna(subset=['age'],inplace=True)
df
```

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male	embark_
0	0	3	male	22.0	1	0	7.2500	S	Third	man	True	Southarr
1	1	1	female	38.0	1	0	71.2833	C	First	woman	False	Chert
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	False	Southarr
3	1	1	female	35.0	1	0	53.1000	S	First	woman	False	Southarr
4	0	3	male	35.0	0	0	8.0500	S	Third	man	True	Southarr
...
885	0	3	female	39.0	0	5	29.1250	Q	Third	woman	False	Queens
886	0	2	male	27.0	0	0	13.0000	S	Second	man	True	Southarr
887	1	1	female	19.0	0	0	30.0000	S	First	woman	False	Southarr
889	1	1	male	26.0	0	0	30.0000	C	First	man	True	Chert
890	0	3	male	32.0	0	0	7.7500	Q	Third	man	True	Queens

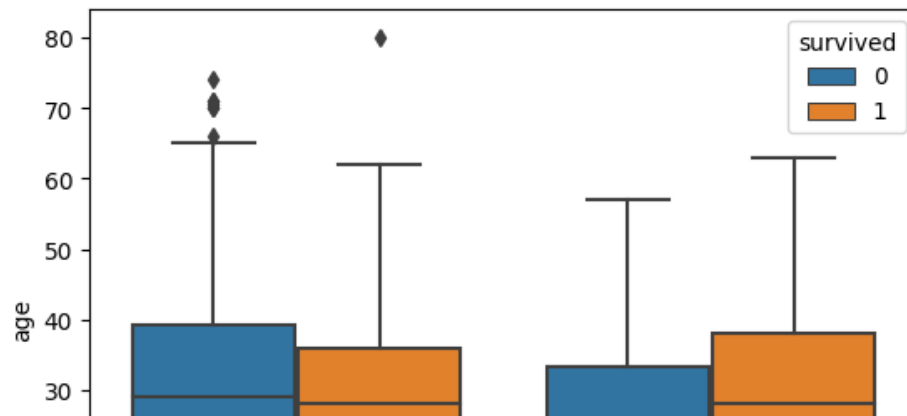
714 rows × 14 columns

```
df.describe()
```

	survived	pclass	age	sibsp	parch	
count	714.000000	714.000000	714.000000	714.000000	714.000000	7
mean	0.406162	2.236695	29.699118	0.512605	0.431373	
std	0.491460	0.838250	14.526497	0.929783	0.853289	
min	0.000000	1.000000	0.420000	0.000000	0.000000	
25%	0.000000	1.000000	20.125000	0.000000	0.000000	
50%	0.000000	2.000000	28.000000	0.000000	0.000000	
75%	1.000000	3.000000	38.000000	1.000000	1.000000	
max	1.000000	3.000000	80.000000	5.000000	6.000000	5

```
sns.boxplot(x='sex',y='age',data=df,hue='survived')
```

```
<Axes: xlabel='sex', ylabel='age'>
```



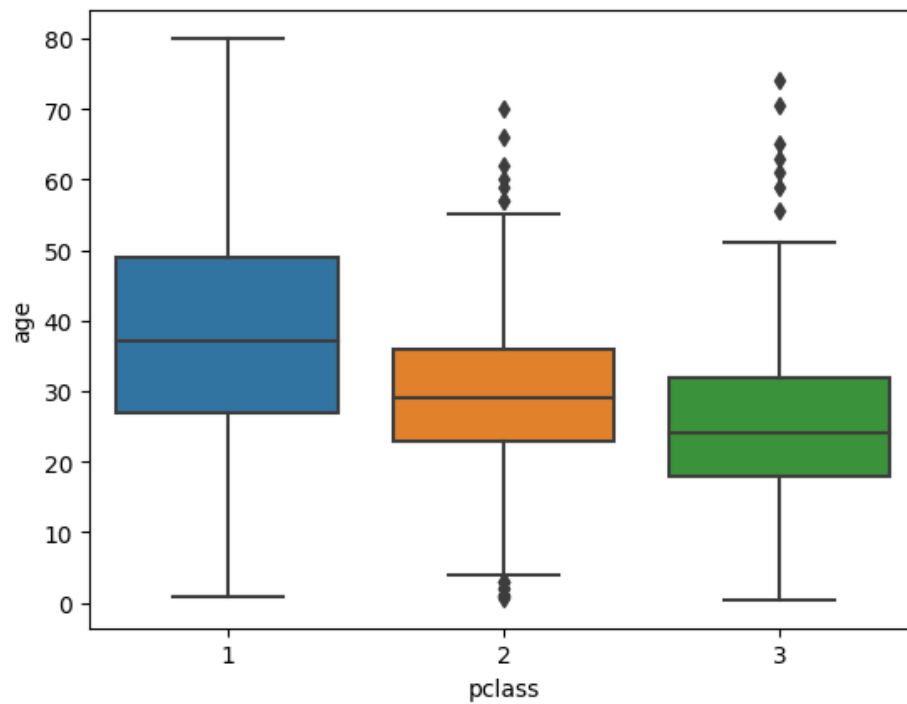
▼ Inference

graph dekh ke jo samjha wo likhna hota hai

```
sns.
```

```
sns.boxplot(x='pclass',y='age',data=df)
```

```
<Axes: xlabel='pclass', ylabel='age'>
```



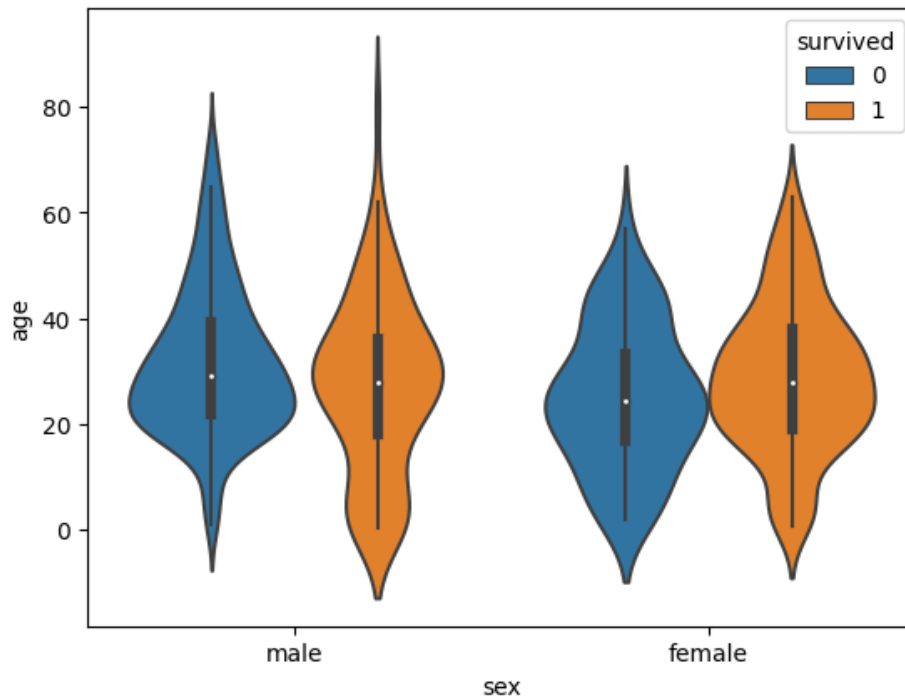
```
sns.violinplot(x='sex',y='age',data=df)
```

<Axes: xlabel='sex', ylabel='age'>



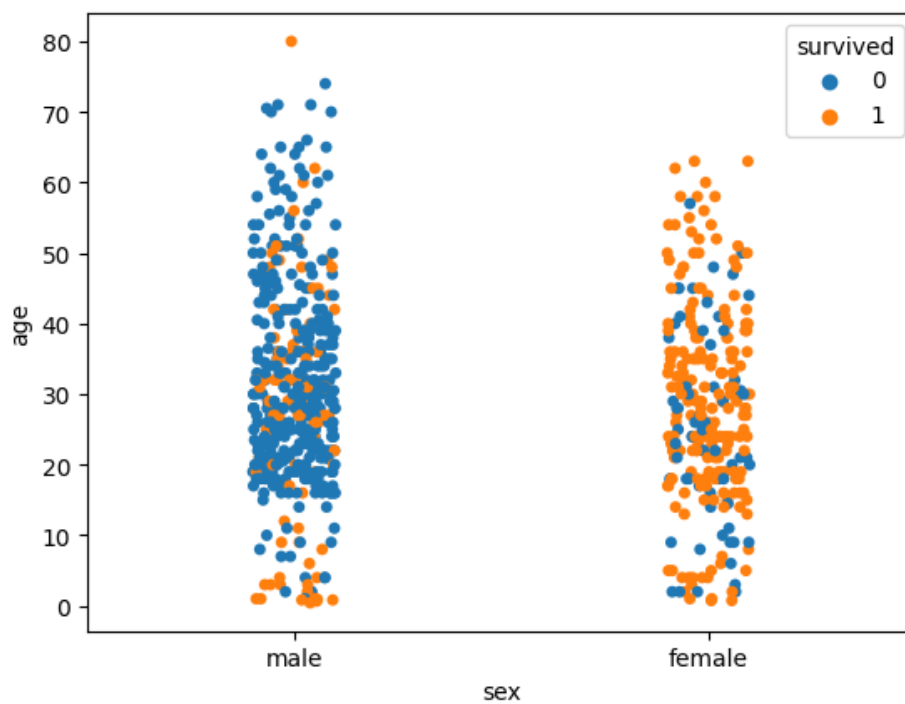
```
sns.violinplot(x='sex',y='age',data=df,hue='survived')
```

<Axes: xlabel='sex', ylabel='age'>

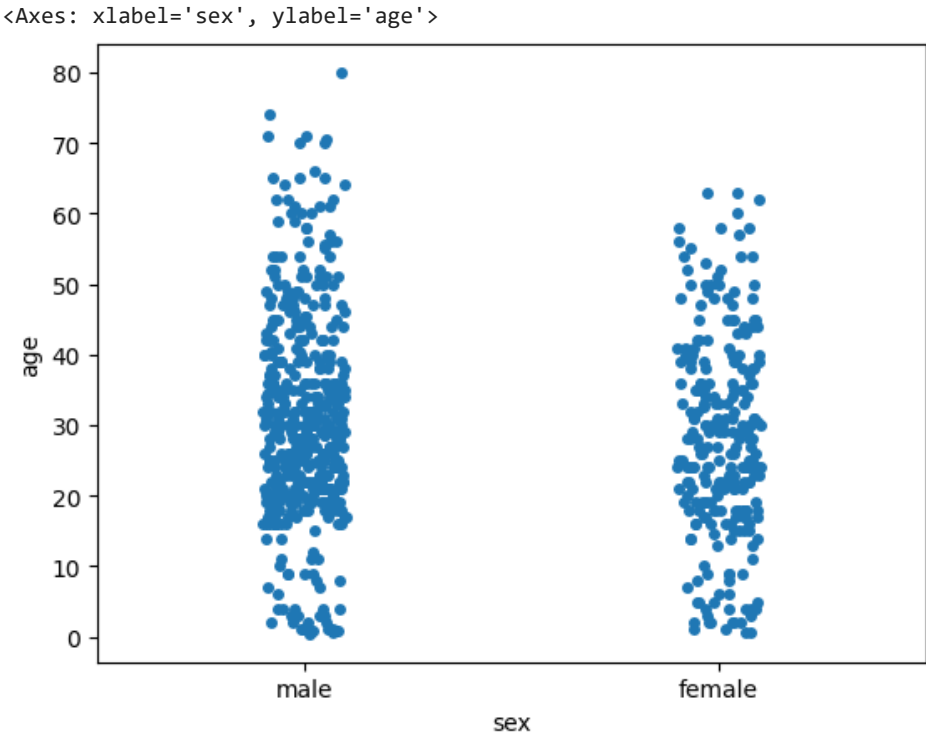


```
sns.stripplot(x='sex',y='age',data=df,hue='survived')
```

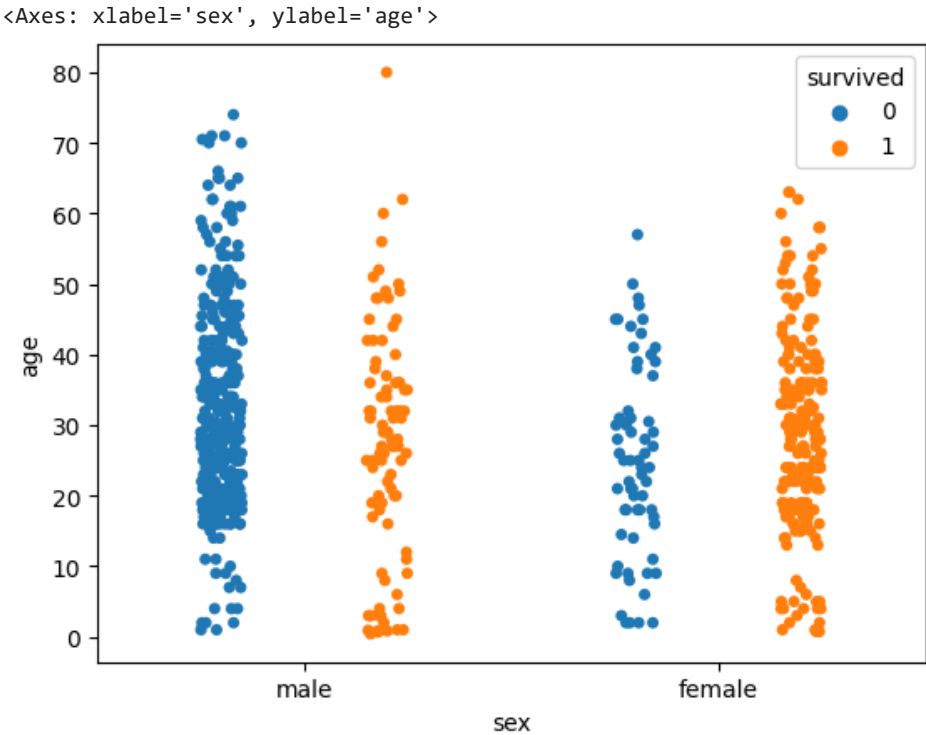
<Axes: xlabel='sex', ylabel='age'>



```
sns.stripplot(x='sex',y='age',data=df)
```

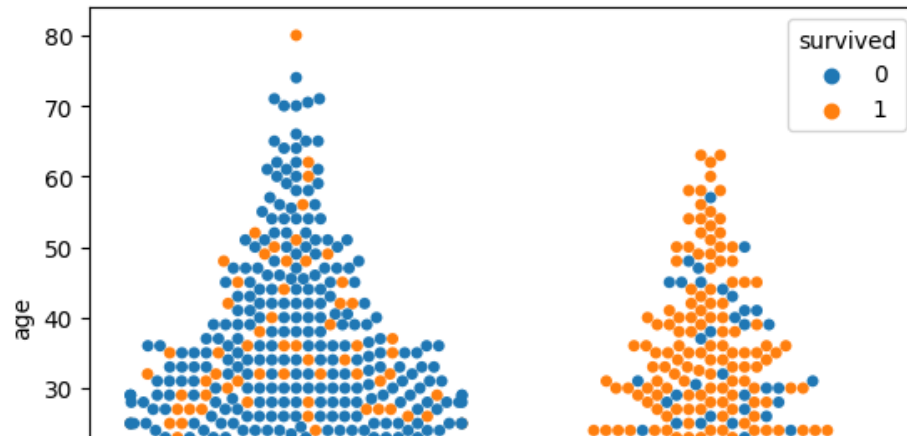


```
sns.stripplot(x='sex',y='age',data=df,hue='survived',dodge=True)
```



```
sns.swarmplot(x='sex',y='age',data=df,hue='survived')
```

<Axes: xlabel='sex', ylabel='age'>



```
sns.swarmplot(x='sex',y='age',data=df,hue='survived',dodge=True)
```



<Axes: xlabel='sex', ylabel='age'>

