```
import seaborn as sns
titanic = sns.load dataset("titanic")
titanic
                                  age sibsp parch fare embarked
     survived
               pclass
                           sex
class \
                          male
                                 22.0
                                           1
                                                       7.2500
                     3
                                                   0
Third
                        female
                                38.0
                                           1
                                                      71.2833
                                                                      C
1
First
                                26.0
                        female
                                           0
                                                   0
                                                       7.9250
                                                                      S
            1
                     3
Third
                        female 35.0
                                           1
                                                      53.1000
                                                                      S
3
First
                          male 35.0
            0
                                           0
                                                       8.0500
Third
. . .
                     2
                          male
                                 27.0
                                                      13.0000
                                                                      S
886
Second
887
                        female
                                19.0
                                           0
                                                      30.0000
                                                                      S
First
                                                                      S
888
                        female
                                  NaN
                                                      23.4500
Third
889
                          male 26.0
                                                      30,0000
                                                                      \mathbf{C}
First
                     3
                          male 32.0
                                           0
890
            0
                                                   0
                                                     7.7500
                                                                      Q
Third
       who
            adult male deck
                              embark town alive
                                                   alone
0
                   True
                         NaN
                              Southampton
                                                   False
       man
                                               no
1
                                 Cherbourg
                  False
                           C
                                                   False
     woman
                                             yes
2
                  False
                              Southampton
                                                    True
     woman
                         NaN
                                             yes
3
                  False
                           C
                              Southampton
                                                   False
     woman
                                             yes
4
                   True
                         NaN
                              Southampton
                                                    True
       man
                                              no
       . . .
. .
                                              . . .
886
                   True
                         NaN
                              Southampton
                                                    True
       man
                                              no
887
                  False
                           В
                              Southampton
                                                    True
     woman
                                             yes
     woman
888
                  False
                         NaN
                              Southampton
                                              no
                                                   False
889
       man
                   True
                           C
                                 Cherbourg
                                                    True
                                             yes
890
                   True
                         NaN
                                Queenstown
                                                    True
       man
                                              no
[891 rows x 15 columns]
titanic.head(10)
                                            parch fare embarked
   survived
             pclass
                         sex
                                age sibsp
class \
          0
                   3
                        male 22.0
                                         1
                                                     7.2500
                                                                    S
```

Third 1	1	1	female	. 38	. 0	1	0	71	. 283	3	С	
First 2	1	3	female			0	0		.925		S	
Third		_										
3 First	1	1	female	35	. 0	1	0	53	.100	10	S	
4 Third	0	3	male	35	.0	0	0	8	.050	0	S	
5	0	3	male	. N	aN	0	0	8	. 458	3	Q	
Third 6	0	1	male	54	.0	0	0	51	.862	.5	S	
First 7	0	3	male	. 2	. 0	3	1	21	.075	0	S	
Third 8	1	3	female	27	Θ	0	2	11	. 133	١٦	S	
Third												
9 Second	1	2	female	14	.0	1	0	30	.070	18	С	
0 man 1 woman 2 woman 3 woman 4 man 5 man 6 man 7 child 8 woman 9 child titanic.i	.nfo	True False False True True True False False False	C NaN C NaN NaN E NaN	Ch Sout Sout Que Sout Sout Sout	hampton erbourg hampton hampton enstown hampton hampton hampton erbourg	no yes yes yes no no no yes yes	Fair	lse lse rue rue rue lse lse				
<pre><bound me="" pa<="" pre="" sibsp=""></bound></pre>	ethod [arch				s class	urvived \	р	cla	SS	sex	age	
0 Third	0	3			22.0	`1	(9	7.2	500	S	
1	1	1	. fema	le	38.0	1	(9	71.2	833	С	
First 2	1	3	fema	le	26.0	0	(9	7.9	250	S	
Third 3	1	1	. fema	le	35.0	1	(Э.	53.1	.000	S	
First 4	0	3			35.0	0		9		500	S	
Third	J	3	iiiu		5510	J	•		0.0	300	J	
			1	• •				•				
886 Second	0	2	! ma	le	27.0	0	(9	13.0	000	S	

88		1	1	female	19.0	0	0	30.0000	S
88		0	3	female	e NaN	1	2	23.4500	S
Th. 88	ird 9	1	1	male	26.0	0	0	30.0000	C
Fi 89	rst 0	0	3	male	2 32.0	0	0	7.7500	Q
	ird	-							`
0	who man	adult_i	male True		embark_town Southampton			one lse	
1	woman	F	alse	C	Cherbour	g yes	Fa	lse	
2	woman		alse	NaN	Southampto	_		rue	

3 woman False C Southampton yes False 4 True Southampton True man NaN no 886 NaN Southampton True True man no 887 Southampton True woman False В yes 888 woman False NaN Southampton False no 889 True C Cherbourg True man yes 890 True Queenstown True man NaN no

[891 rows x 15 columns]>

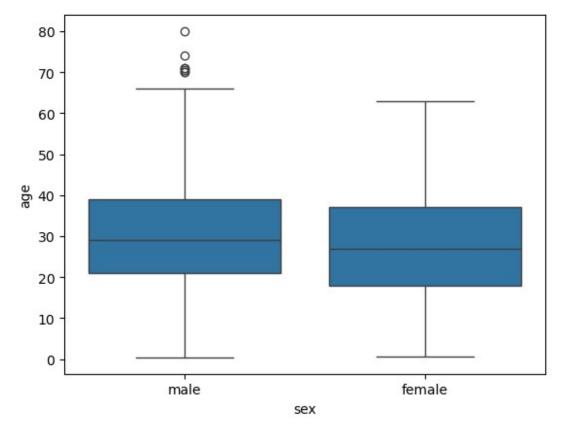
titanic.describe()

	survived	pclass	age	sibsp	parch					
fare										
count	891.000000	891.000000	714.000000	891.000000	891.000000					
891.000000										
mean	0.383838	2.308642	29.699118	0.523008	0.381594					
32.204208										
std	0.486592	0.836071	14.526497	1.102743	0.806057					
49.693429										
min	0.000000	1.000000	0.420000	0.000000	0.000000					
0.000000										
25%	0.000000	2.000000	20.125000	0.000000	0.000000					
7.9104	.00									
50%	0.000000	3.000000	28.000000	0.000000	0.000000					
14.454200										
75%	1.000000	3.000000	38.000000	1.000000	0.000000					
31.000000										
max	1.000000	3.000000	80.000000	8.000000	6.000000					
512.329200										

titanic.loc[:,["survived","alive"]]

survived alive 0 0 no 1 yes

```
2
3
4
                 yes
             1
                 yes
             0
                  no
886
             0
                  no
887
             1
                 yes
888
             0
                  no
889
             1
                 yes
890
             0
                  no
[891 rows x 2 columns]
sns.boxplot(x="sex",y="age",data=titanic)
<Axes: xlabel='sex', ylabel='age'>
```



sns.boxplot(x="sex",y="age",data=titanic,hue="survived")
<Axes: xlabel='sex', ylabel='age'>

