

```
In [2]: import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt

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

```
In [3]: df
```

Out[3]:

	sepal_length	sepal_width	petal_length	petal_width	species
0	5.1	3.5	1.4	0.2	setosa
1	4.9	3.0	1.4	0.2	setosa
2	4.7	3.2	1.3	0.2	setosa
3	4.6	3.1	1.5	0.2	setosa
4	5.0	3.6	1.4	0.2	setosa
...
145	6.7	3.0	5.2	2.3	virginica
146	6.3	2.5	5.0	1.9	virginica
147	6.5	3.0	5.2	2.0	virginica
148	6.2	3.4	5.4	2.3	virginica
149	5.9	3.0	5.1	1.8	virginica

150 rows × 5 columns

```
In [4]: df.head()
```

Out[4]:

	sepal_length	sepal_width	petal_length	petal_width	species
0	5.1	3.5	1.4	0.2	setosa
1	4.9	3.0	1.4	0.2	setosa
2	4.7	3.2	1.3	0.2	setosa
3	4.6	3.1	1.5	0.2	setosa
4	5.0	3.6	1.4	0.2	setosa

```
In [5]: df = sns.load_dataset('tips')
```

```
In [6]: df
```

Out[6]:

	total_bill	tip	sex	smoker	day	time	size
0	16.99	1.01	Female	No	Sun	Dinner	2
1	10.34	1.66	Male	No	Sun	Dinner	3
2	21.01	3.50	Male	No	Sun	Dinner	3
3	23.68	3.31	Male	No	Sun	Dinner	2
4	24.59	3.61	Female	No	Sun	Dinner	4
...
239	29.03	5.92	Male	No	Sat	Dinner	3
240	27.18	2.00	Female	Yes	Sat	Dinner	2
241	22.67	2.00	Male	Yes	Sat	Dinner	2
242	17.82	1.75	Male	No	Sat	Dinner	2
243	18.78	3.00	Female	No	Thur	Dinner	2

244 rows × 7 columns

```
In [9]: df = sns.load_dataset('titanic')
df.head()
```

Out[9]:

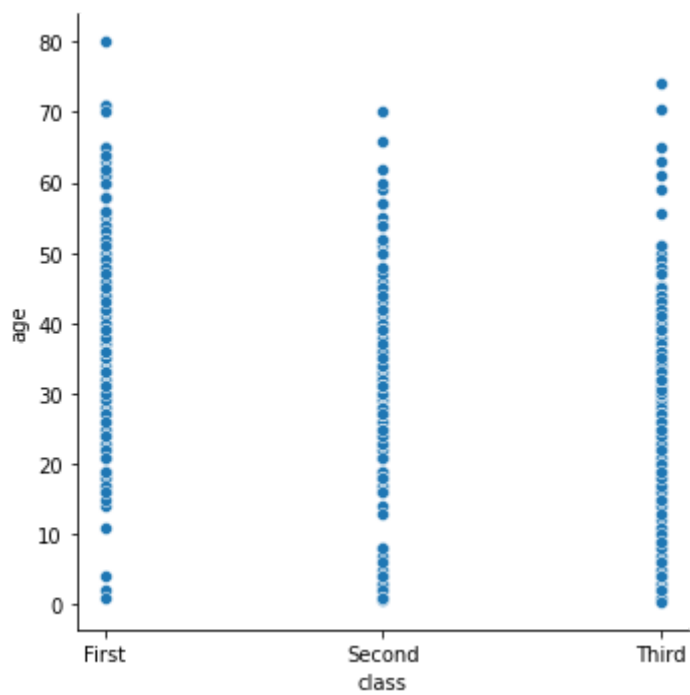
	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male	deck
0	0	3	male	22.0	1	0	7.2500	S	Third	man	True	None
1	1	1	female	38.0	1	0	71.2833	C	First	woman	False	None
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	False	None
3	1	1	female	35.0	1	0	53.1000	S	First	woman	False	None
4	0	3	male	35.0	0	0	8.0500	S	Third	man	True	None

```
In [8]: df = sns.load_dataset('titanic')
df.describe()
```

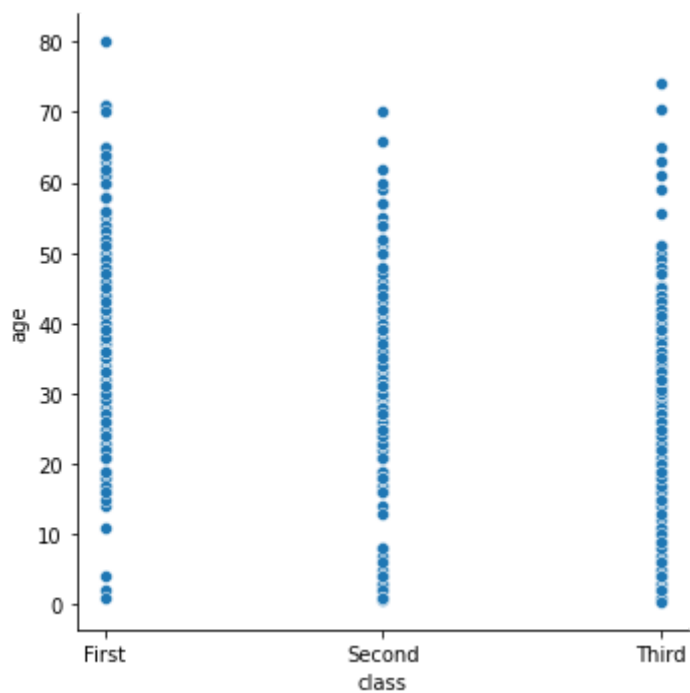
Out[8]:

	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	7.910400
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

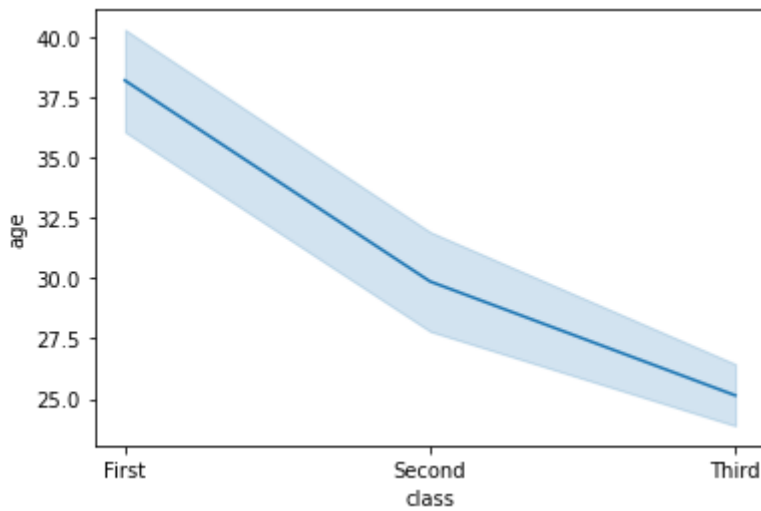
```
In [14]: sns.relplot(data = df, x = 'class', y = 'age' )
plt.show()
```



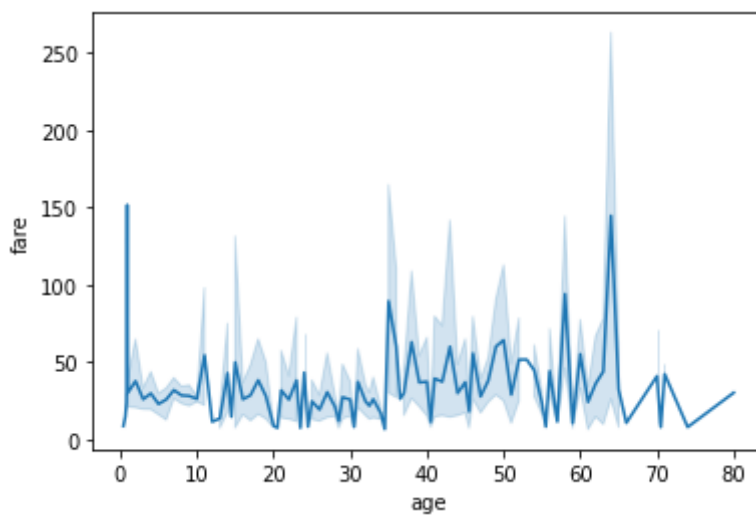
```
In [15]: sns.relplot(data = df, x = 'class', y = 'age' );
```



```
In [16]: sns.lineplot(data = df, x = 'class', y = 'age' );
```

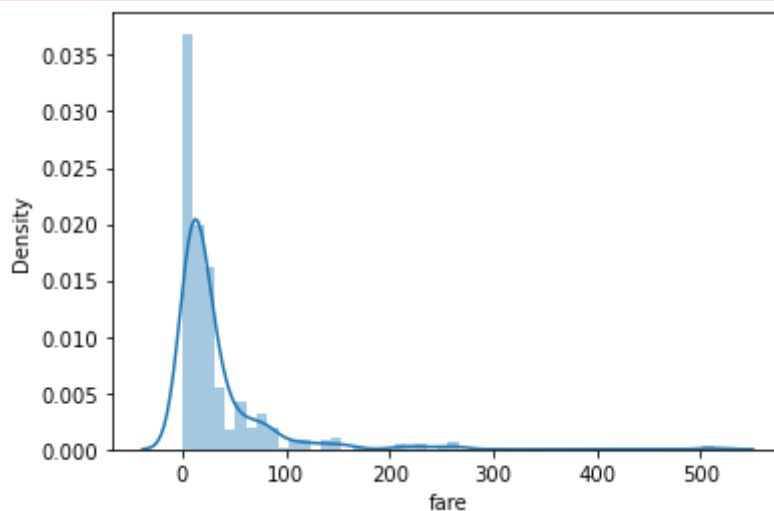


```
In [18]: sns.lineplot(data = df, x = 'age', y = 'fare');
```



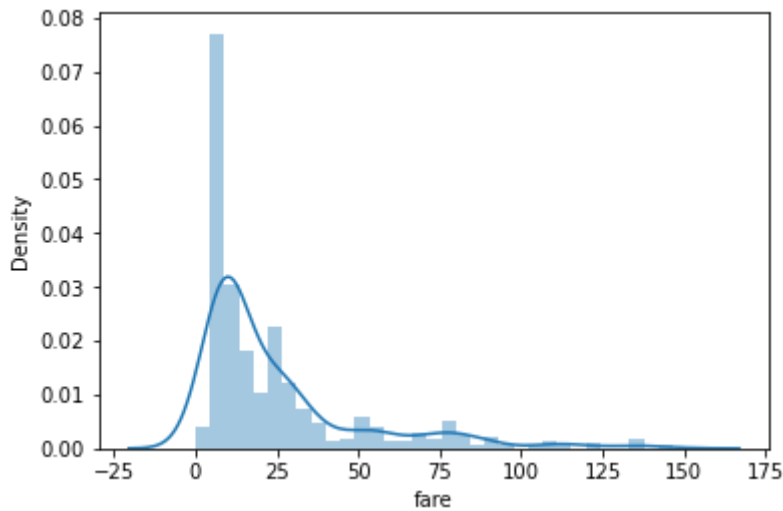
```
In [22]: sns.distplot(df.fare);
```

C:\WAnaconda3\lib\site-packages\seaborn\distributions.py:2619: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).
warnings.warn(msg, FutureWarning)



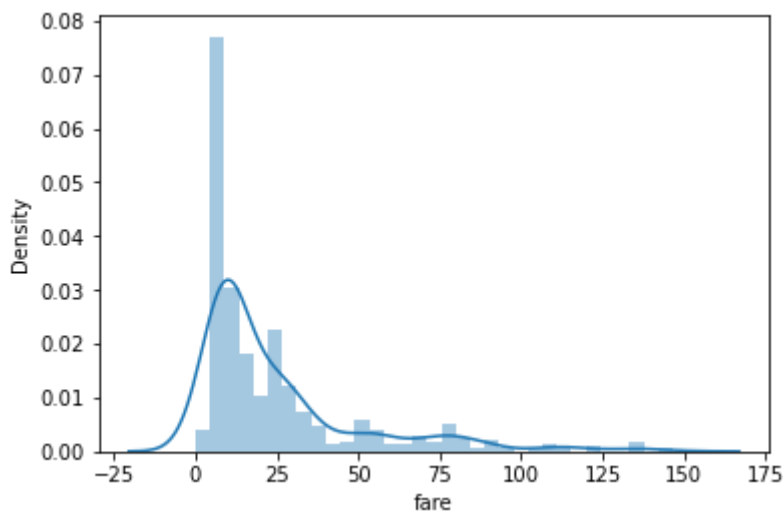
```
In [24]: pilter = df.query('fare<=150') #df에 타이타닉 데이터 저장
sns.distplot(pilter.fare); #버전에 따라서 distplot 경고
```

C:\WAnaconda3\lib\site-packages\seaborn\distributions.py:2619: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).
warnings.warn(msg, FutureWarning)



In [28]: `pilter = df.query('fare<=150')`
`sns.distplot(pilter.fare.dropna()); #dropna()는 빈 데이터 삭제`

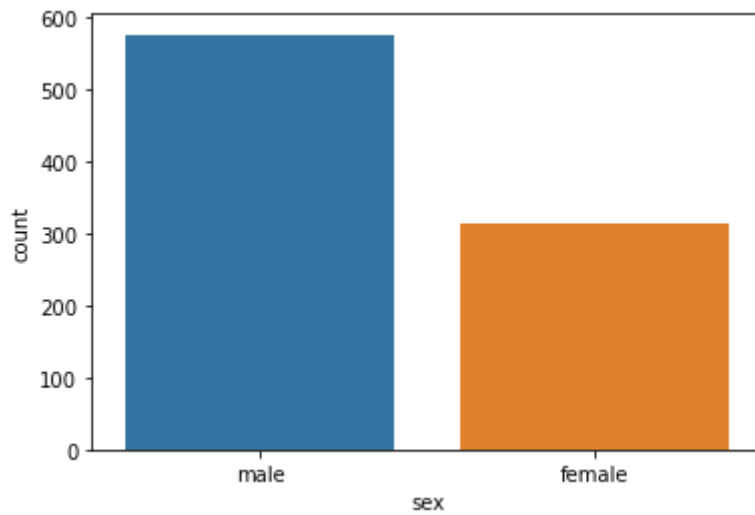
C:\WAnaconda3\lib\site-packages\seaborn\distributions.py:2619: FutureWarning: `distplot` is a deprecated function and will be removed in a future version. Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).
warnings.warn(msg, FutureWarning)



In [30]: `sns.countplot(df.sex)`

C:\WAnaconda3\lib\site-packages\seaborn\decorators.py:36: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.
warnings.warn(
<AxesSubplot:xlabel='sex', ylabel='count'>

Out[30]:

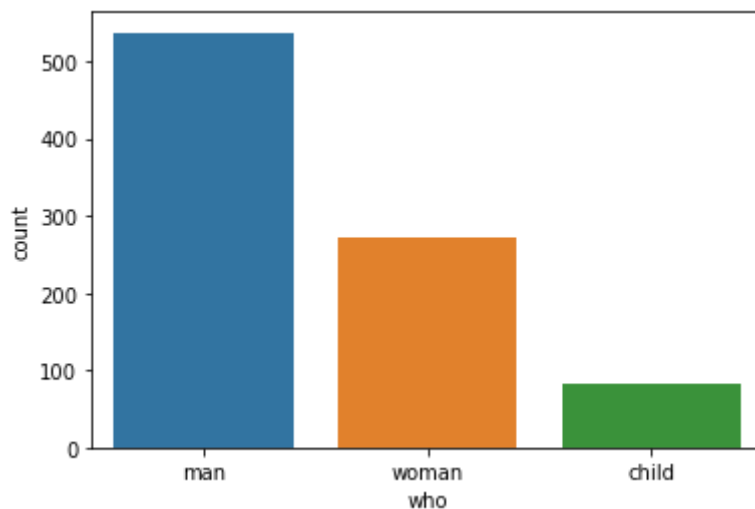


In [31]: `sns.countplot(df.who)`

C:\WAnaconda3\lib\site-packages\seaborn\decorators.py:36: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.

warnings.warn(

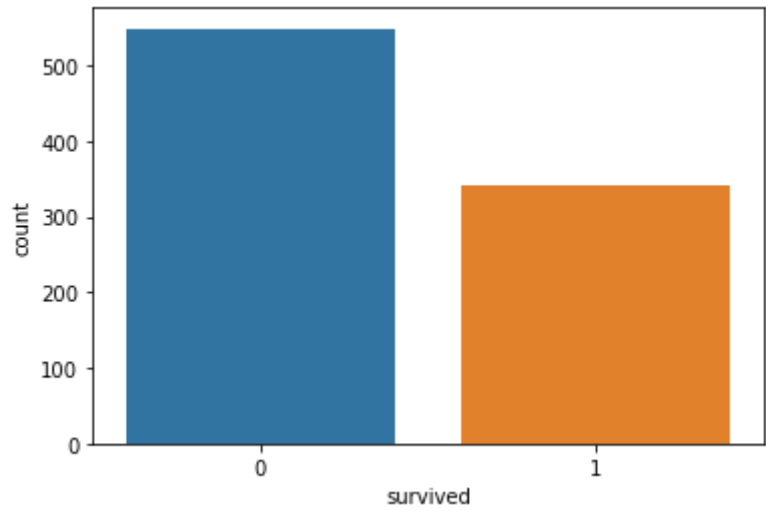
Out[31]: <AxesSubplot:xlabel='who', ylabel='count'>



In [32]: `sns.countplot(df.survived); #boxplot 출제 x, barplot까지`

C:\WAnaconda3\lib\site-packages\seaborn\decorators.py:36: FutureWarning: Pass the following variable as a keyword arg: x. From version 0.12, the only valid positional argument will be `data`, and passing other arguments without an explicit keyword will result in an error or misinterpretation.

warnings.warn(



```
In [ ]:
```