

✓ Importing Necessary Libraries

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
%matplotlib inline
import seaborn as sns
import warnings
warnings.filterwarnings('ignore')
```

✓ Loading the dataset

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

```
titanic.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
```

```
titanic.describe()
```

```
>>>
```

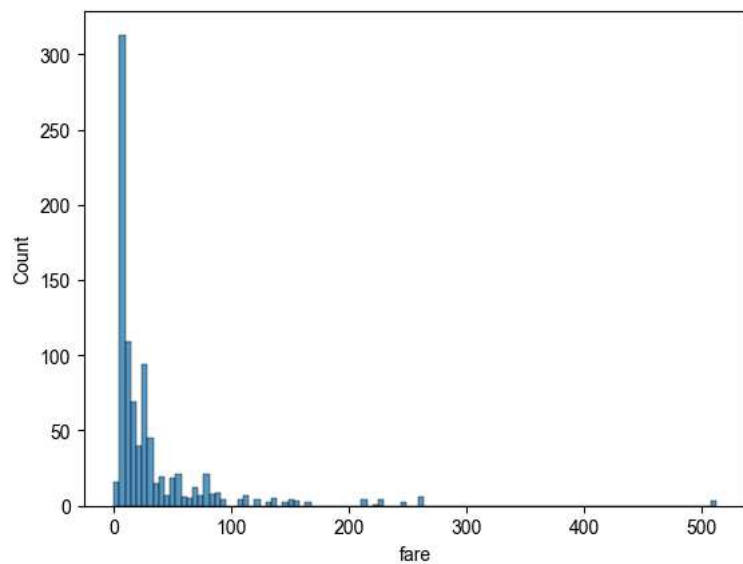
	survived	pclass	age	sibsp	parch	fare
count	891.000000	891.000000	714.000000	891.000000	891.000000	891.000000
mean	0.383838	2.308642	29.699118	0.523008	0.381594	32.204208
std	0.486592	0.836071	14.526497	1.102743	0.806057	49.693429
min	0.000000	1.000000	0.420000	0.000000	0.000000	0.000000
25%	0.000000	2.000000	20.125000	0.000000	0.000000	7.910400
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

```
titanic.shape
```

```
>>> (891, 15)
```

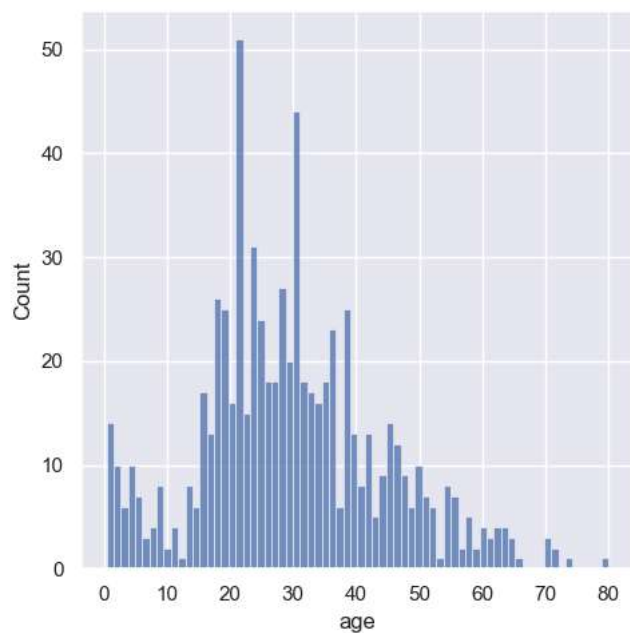
✓ Data Visualization

```
sns.histplot(x='fare',data=titanic)
sns.set(rc={'figure.figsize':(5,5)})
```



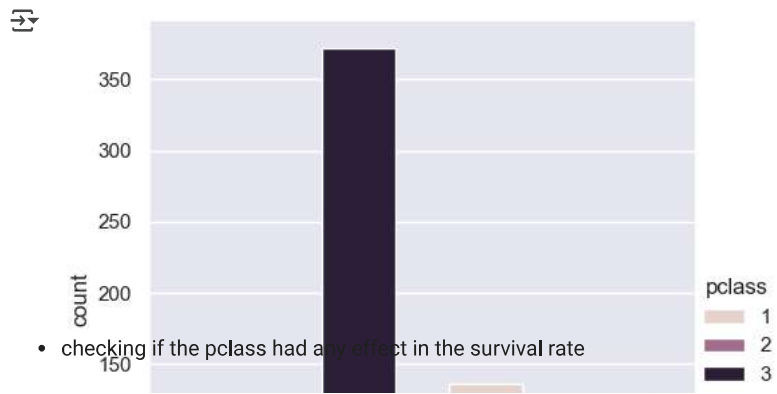
- This histogram shows how the price of the ticket for each passenger is distributed

```
sns.displot(x='age',data=titanic,bins=70)
sns.set(rc={'figure.figsize':(5,5)})
```



- This histogram shows how the age of each passenger is distributed in the ship

```
sns.catplot(x='survived', data=titanic, kind='count', hue='pclass')
sns.set(rc={'figure.figsize':(5,5)})
```



```
sns.catplot(x='survived', data=titanic, kind='count', hue='sex')  
sns.set(rc={'figure.figsize':(5,5)})
```

