

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

```
In [3]: df = pd.read_csv("train.csv")
```

```
In [4]: df
```

Out[4]:	PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
0	1	0	3	Braund, Mr. Owen Harris	male	22.0	1	0	A/5 21171	7.2500	NaN	
1	2	1	1	Cumings, Mrs. John Bradley (Florence Briggs Th...	female	38.0	1	0	PC 17599	71.2833	C85	
2	3	1	3	Heikkinen, Miss. Laina	female	26.0	0	0	STON/O2. 3101282	7.9250	NaN	
3	4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35.0	1	0	113803	53.1000	C123	
4	5	0	3	Allen, Mr. William Henry	male	35.0	0	0	373450	8.0500	NaN	
...	
886	887	0	2	Montvila, Rev. Juozas	male	27.0	0	0	211536	13.0000	NaN	
887	888	1	1	Graham, Miss. Margaret Edith	female	19.0	0	0	112053	30.0000	B42	
888	889	0	3	Johnston, Miss. Catherine Helen "Carrie"	female	NaN	1	2	W./C. 6607	23.4500	NaN	
889	890	1	1	Behr, Mr. Karl Howell	male	26.0	0	0	111369	30.0000	C148	
890	891	0	3	Dooley, Mr. Patrick	male	32.0	0	0	370376	7.7500	NaN	

891 rows × 12 columns

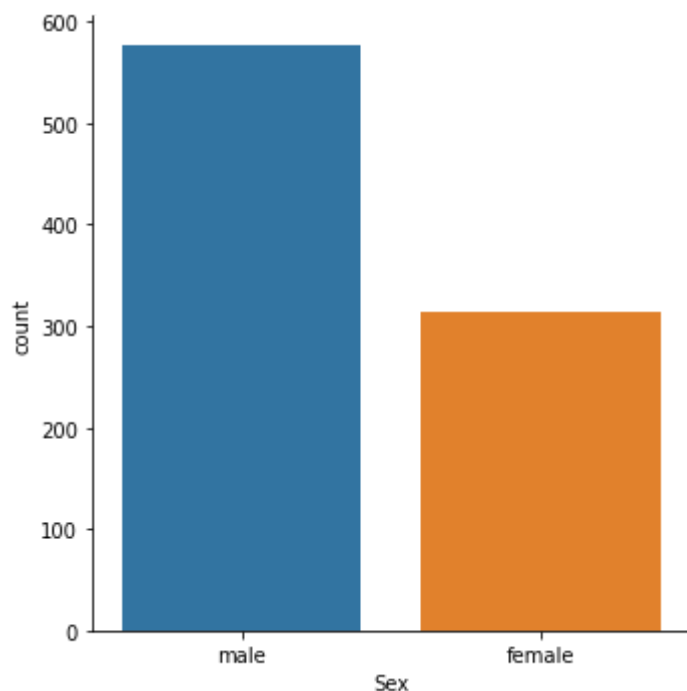
```
In [5]: df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 891 entries, 0 to 890
Data columns (total 12 columns):
#   Column          Non-Null Count  Dtype
---  -
0   PassengerId      891 non-null    int64
1   Survived         891 non-null    int64
2   Pclass           891 non-null    int64
3   Name             891 non-null    object
4   Sex              891 non-null    object
5   Age              714 non-null    float64
6   SibSp            891 non-null    int64
7   Parch            891 non-null    int64
8   Ticket           891 non-null    object
9   Fare             891 non-null    float64
10  Cabin            204 non-null    object
11  Embarked         889 non-null    object
dtypes: float64(2), int64(5), object(5)
memory usage: 83.7+ KB
```

```
In [6]: sns.factorplot('Sex',data=df,kind='count')
```

```
C:\Users\pd277\AppData\Local\Programs\Python\Python310\lib\site-packages\seaborn\categorical.py:3717: UserWarning: The `factorplot` function has been renamed to `catplot`. The original name will be removed in a future release. Please update your code. Note that the default `kind` in `factorplot` (`'point'`) has changed to `strip` in `catplot`.
  warnings.warn(msg)
C:\Users\pd277\AppData\Local\Programs\Python\Python310\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(
```

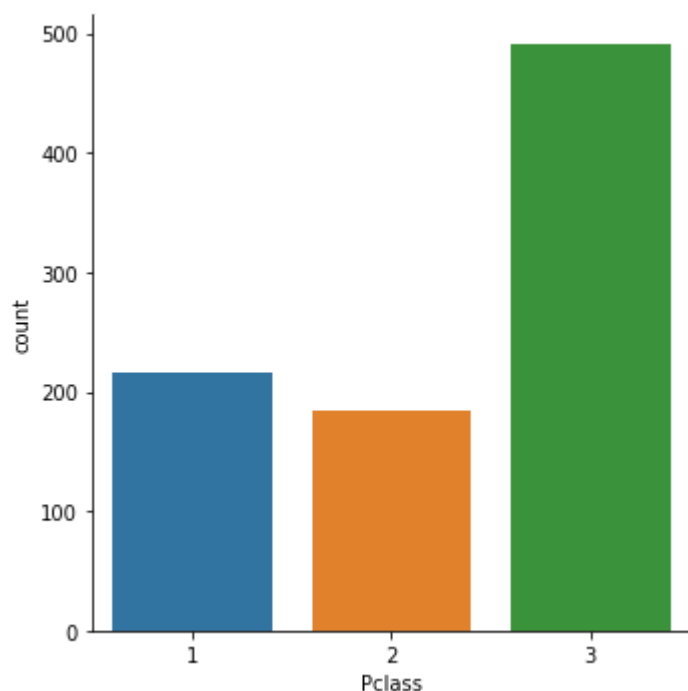
```
Out[6]: <seaborn.axisgrid.FacetGrid at 0x1ebc70674f0>
```



```
In [7]: sns.factorplot('Pclass',data=df,kind='count')
```

```
C:\Users\pd277\AppData\Local\Programs\Python\Python310\lib\site-packages\seaborn\categorical.py:3717: UserWarning: The `factorplot` function has been renamed to `catplot`. The original name will be removed in a future release. Please update your code. Note that the default `kind` in `factorplot` (`'point'`) has changed to `strip` in `catplot`.
  warnings.warn(msg)
C:\Users\pd277\AppData\Local\Programs\Python\Python310\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[7]: <seaborn.axisgrid.FacetGrid at 0x1ebe7a1f9a0>



In [8]: `sns.factorplot('Pclass', data=df, hue='Sex', kind='count')`

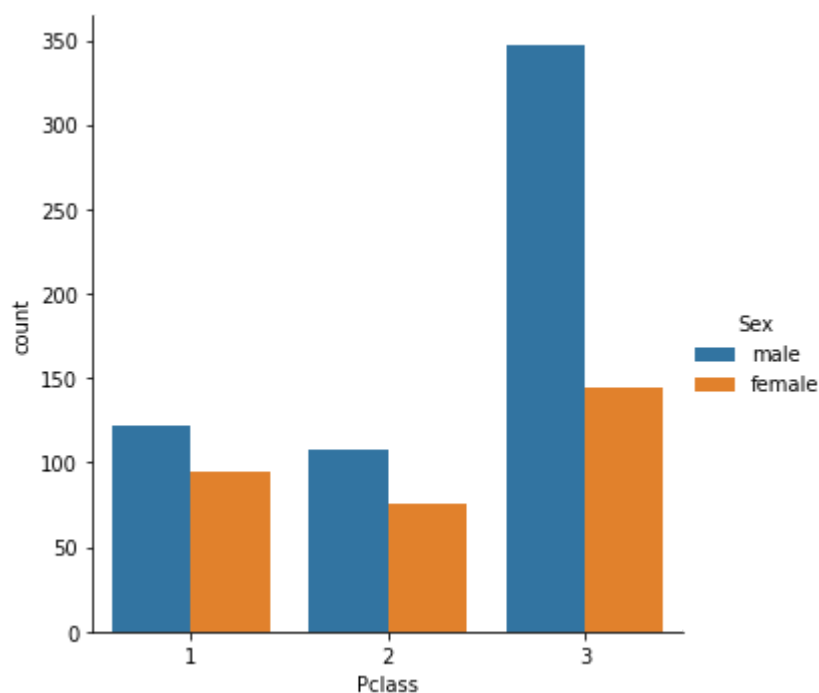
C:\Users\pd277\AppData\Local\Programs\Python\Python310\lib\site-packages\seaborn\categorical.py:3717: UserWarning: The `factorplot` function has been renamed to `catplot`. The original name will be removed in a future release. Please update your code. Note that the default `kind` in `factorplot` (`'point'`) has changed to `strip` in `catplot`.

warnings.warn(msg)

C:\Users\pd277\AppData\Local\Programs\Python\Python310\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[8]: <seaborn.axisgrid.FacetGrid at 0x1ebe9aea9e0>



In [16]: `sns.factorplot('Sex', data=df, hue='Pclass', kind='count')`

```
C:\Users\pd277\AppData\Local\Programs\Python\Python310\lib\site-packages\seaborn\categorical.py:3717: UserWarning: The `factorplot` function has been renamed to `catplot`. The original name will be removed in a future release. Please update your code. Note that the default `kind` in `factorplot` (`'point'`) has changed to `strip` in `catplot`.
```

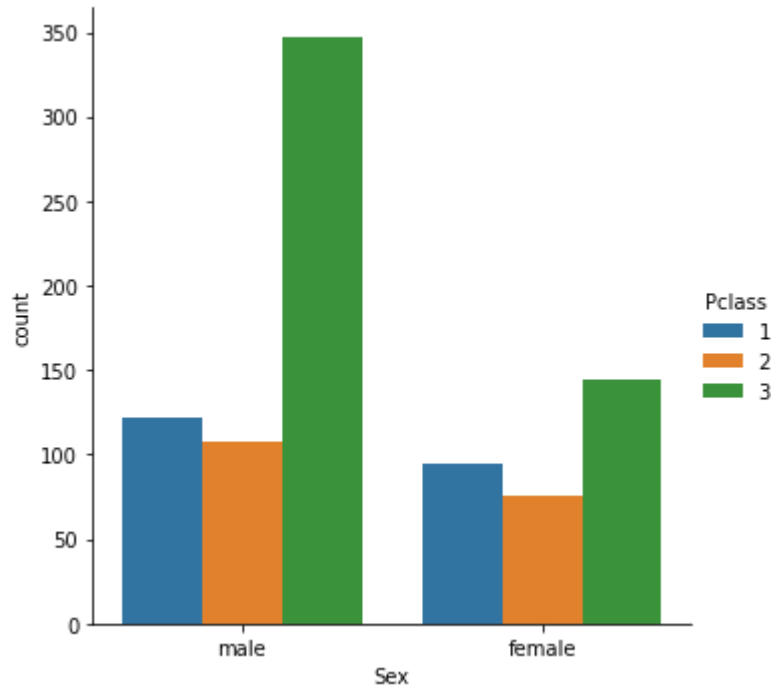
```
warnings.warn(msg)
```

```
C:\Users\pd277\AppData\Local\Programs\Python\Python310\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(
```

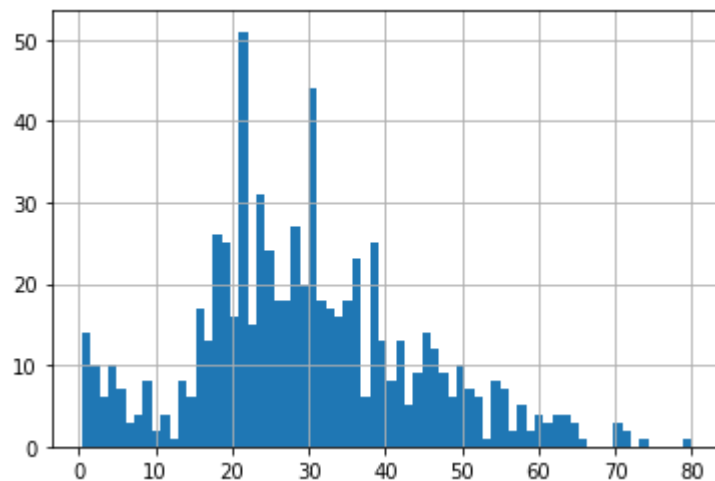
```
<seaborn.axisgrid.FacetGrid at 0x1ebc5d20d00>
```

Out[16]:



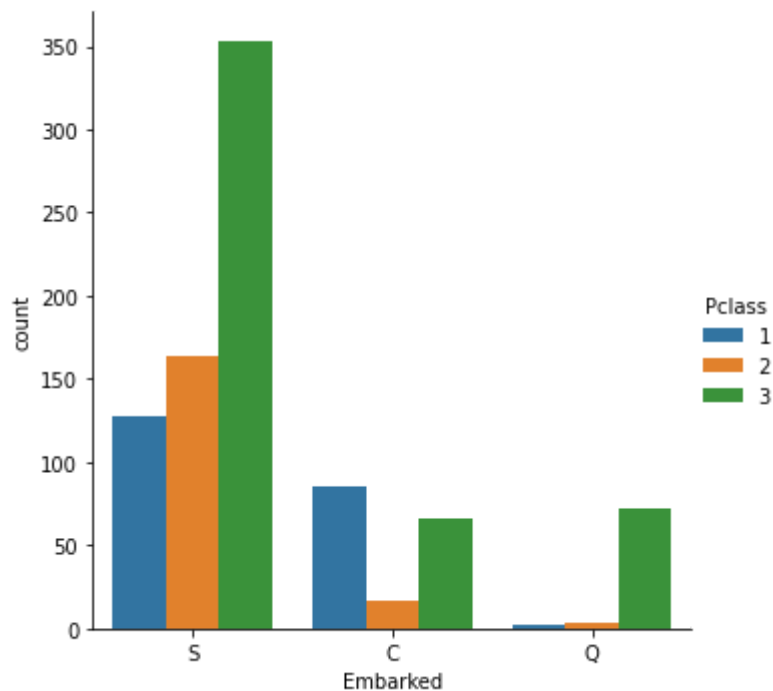
```
In [12]: df['Age'].hist(bins=70)
```

Out[12]: <AxesSubplot:>



```
In [13]: sns.factorplot('Embarked', data=df, hue='Pclass', kind='count')
```

Out[13]: <seaborn.axisgrid.FacetGrid at 0x1ebc703a830>



```
In [14]: sns.factorplot('Survived', data=df, kind='count')
```

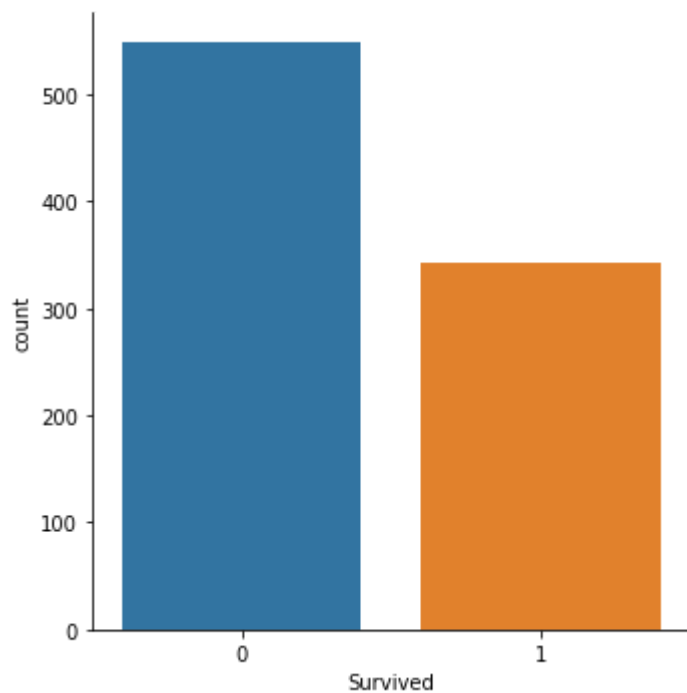
C:\Users\pd277\AppData\Local\Programs\Python\Python310\lib\site-packages\seaborn\categorical.py:3717: UserWarning: The `factorplot` function has been renamed to `catplot`. The original name will be removed in a future release. Please update your code. Note that the default `kind` in `factorplot` (`'point'`) has changed to `strip` in `catplot`.

warnings.warn(msg)

C:\Users\pd277\AppData\Local\Programs\Python\Python310\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[14]: <seaborn.axisgrid.FacetGrid at 0x1ebe9bb4220>
```



```
In [15]: sns.factorplot('Survived', data=df, hue='Pclass', kind='count')
```

```
C:\Users\pd277\AppData\Local\Programs\Python\Python310\lib\site-packages\seaborn\categorical.py:3717: UserWarning: The `factorplot` function has been renamed to `catplot`. The original name will be removed in a future release. Please update your code. Note that the default `kind` in `factorplot` (`'point'`) has changed to `'strip'` in `catplot`.
```

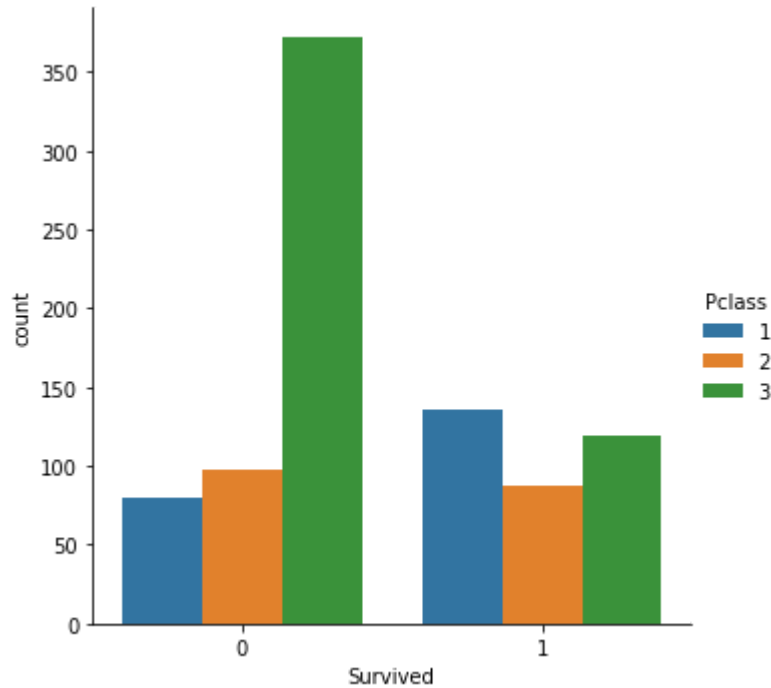
```
warnings.warn(msg)
```

```
C:\Users\pd277\AppData\Local\Programs\Python\Python310\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(
```

```
<seaborn.axisgrid.FacetGrid at 0x1ebe787ffa0>
```

Out[15]:



In []: