

# Seaborn example

August 19, 2021

```
[4]: import seaborn as sns
import matplotlib.pyplot as plt

%matplotlib inline
```

```
[5]: titanic = sns.load_dataset('titanic')
```

```
[6]: titanic
```

```
[6]:      survived  pclass    sex  age  sibsp  parch    fare embarked  class \
0           0        3   male  22.0     1     0   7.2500         S   Third
1           1        1  female  38.0     1     0  71.2833         C   First
2           1        3  female  26.0     0     0   7.9250         S   Third
3           1        1  female  35.0     1     0  53.1000         S   First
4           0        3   male  35.0     0     0   8.0500         S   Third
..          ...      ...    ...  ...     ...    ...   ...      ...
886          0        2   male  27.0     0     0  13.0000         S  Second
887          1        1  female  19.0     0     0  30.0000         S   First
888          0        3  female   NaN     1     2  23.4500         S   Third
889          1        1   male  26.0     0     0  30.0000         C   First
890          0        3   male  32.0     0     0   7.7500         Q   Third
```

```
      who  adult_male deck  embark_town  alive  alone
0     man         True  NaN  Southampton    no  False
1  woman        False   C   Cherbourg   yes  False
2  woman        False  NaN  Southampton   yes   True
3  woman        False   C   Southampton   yes  False
4     man         True  NaN  Southampton    no   True
..    ...      ...    ...      ...     ...
886   man         True  NaN  Southampton    no   True
887  woman        False   B  Southampton   yes   True
888  woman        False  NaN  Southampton    no  False
889   man         True   C   Cherbourg   yes   True
890   man         True  NaN  Queenstown    no   True
```

[891 rows x 15 columns]

```
[7]: titanic.head()
```

```
[7]:
```

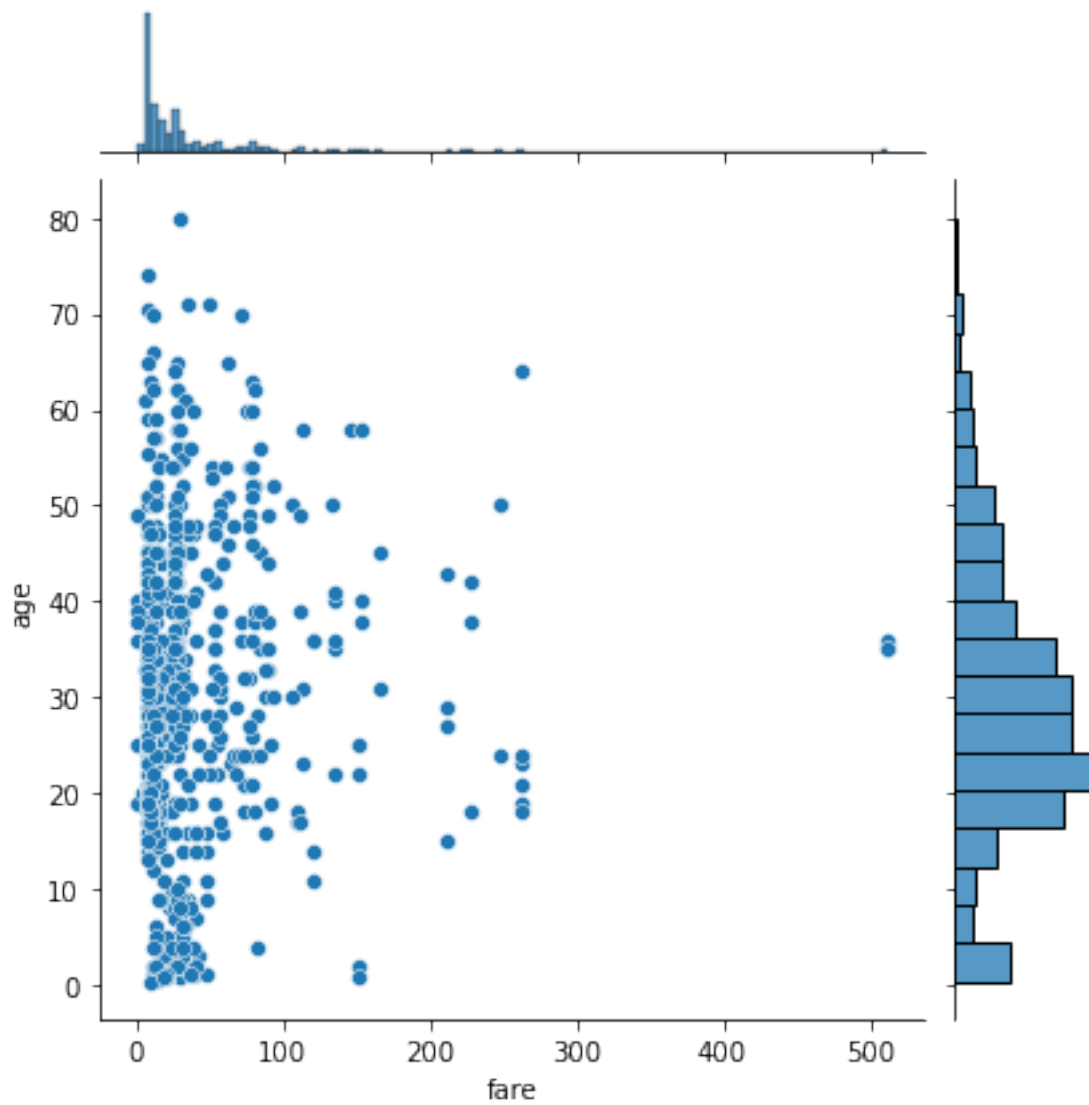
	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	\
0	0	3	male	22.0	1	0	7.2500	S	Third	
1	1	1	female	38.0	1	0	71.2833	C	First	
2	1	3	female	26.0	0	0	7.9250	S	Third	
3	1	1	female	35.0	1	0	53.1000	S	First	
4	0	3	male	35.0	0	0	8.0500	S	Third	

	who	adult_male	deck	embark_town	alive	alone
0	man	True	NaN	Southampton	no	False
1	woman	False	C	Cherbourg	yes	False
2	woman	False	NaN	Southampton	yes	True
3	woman	False	C	Southampton	yes	False
4	man	True	NaN	Southampton	no	True

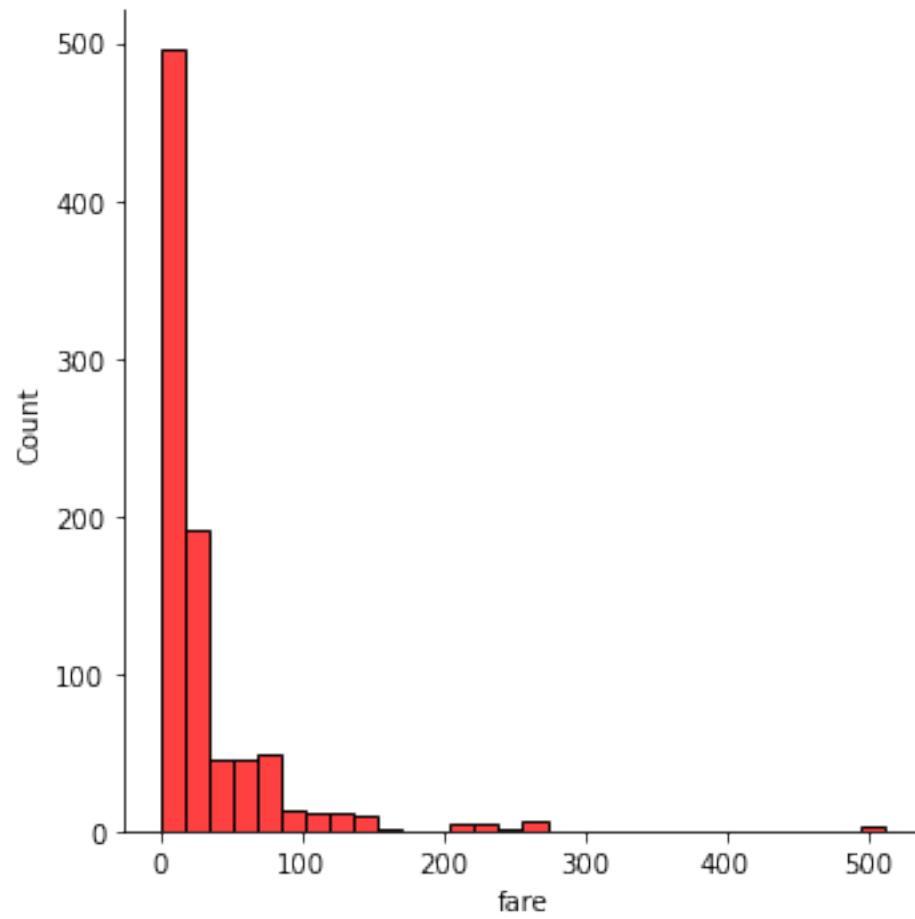
```
[9]: sns.jointplot(x = 'fare', y = 'age', data = titanic)
```

```
[9]: <seaborn.axisgrid.JointGrid at 0x1bd0b3cb1c0>
```



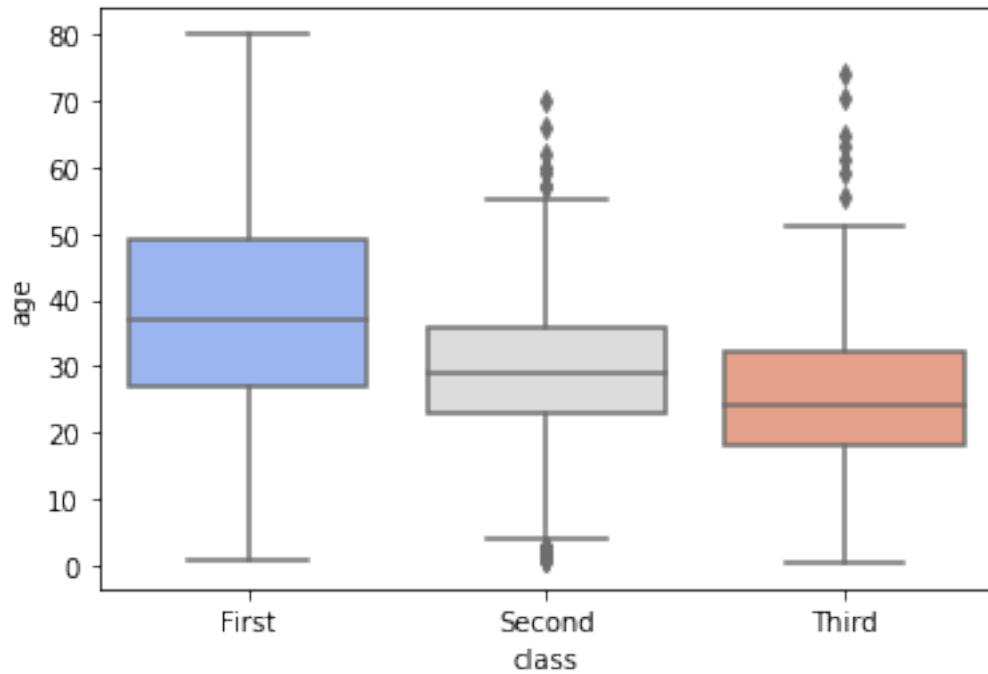
```
[14]: sns.displot(titanic['fare'], bins = 30, color = 'red')
```

```
[14]: <seaborn.axisgrid.FacetGrid at 0x1bd0be0dd00>
```



```
[17]: sns.boxplot(x = 'class', y = 'age', data = titanic, palette = 'coolwarm')
```

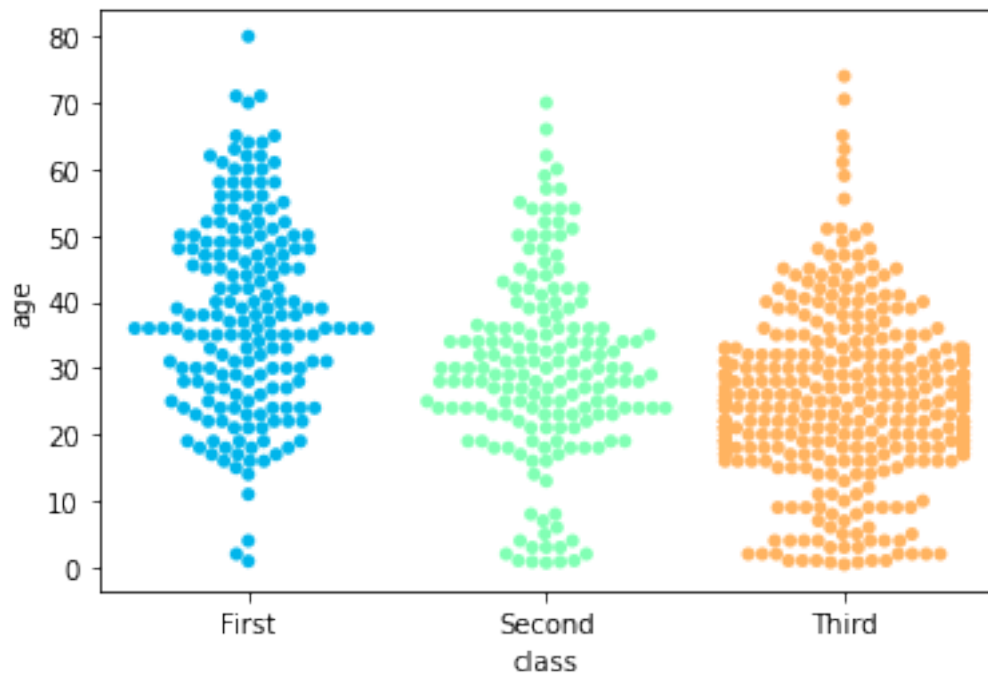
```
[17]: <AxesSubplot:xlabel='class', ylabel='age'>
```



```
[20]: sns.swarmplot(x = 'class', y = 'age', data = titanic, palette = 'rainbow')
```

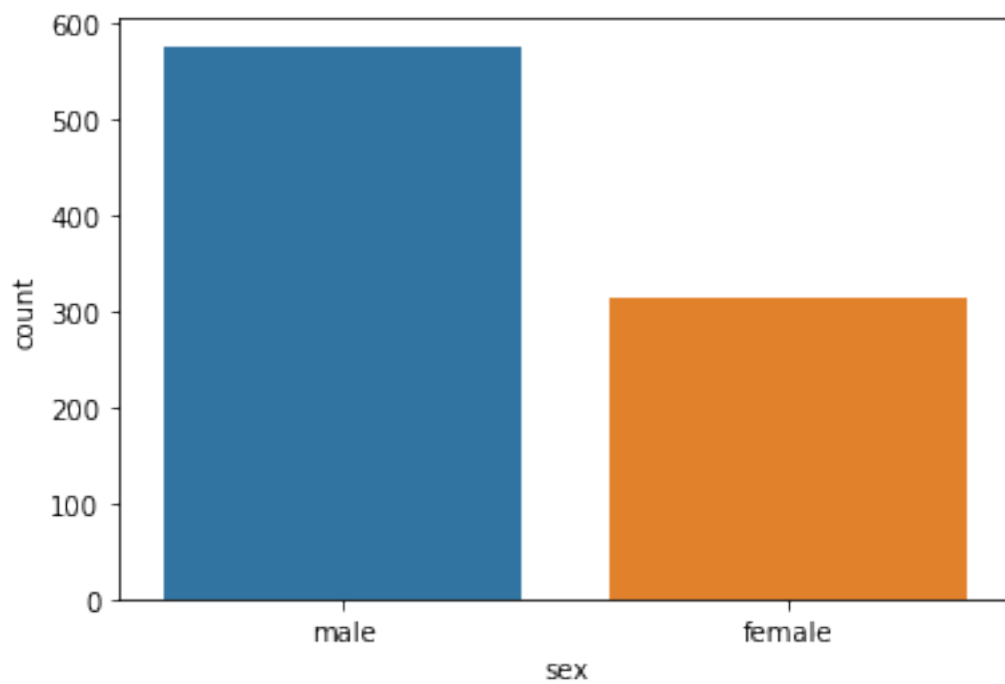
C:\Users\Bhagya\anaconda3\lib\site-packages\seaborn\categorical.py:1296:  
 UserWarning: 15.9% of the points cannot be placed; you may want to decrease the  
 size of the markers or use stripplot.  
 warnings.warn(msg, UserWarning)

```
[20]: <AxesSubplot:xlabel='class', ylabel='age'>
```



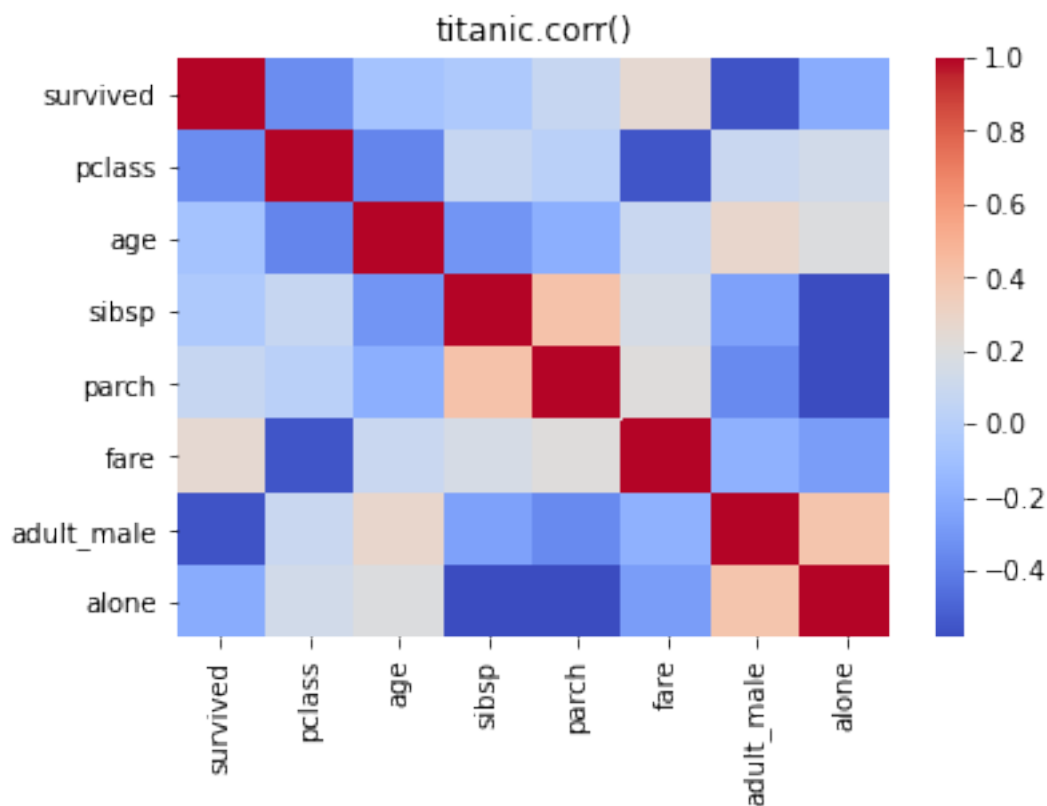
```
[22]: sns.countplot(x = 'sex', data = titanic)
```

```
[22]: <AxesSubplot:xlabel='sex', ylabel='count'>
```



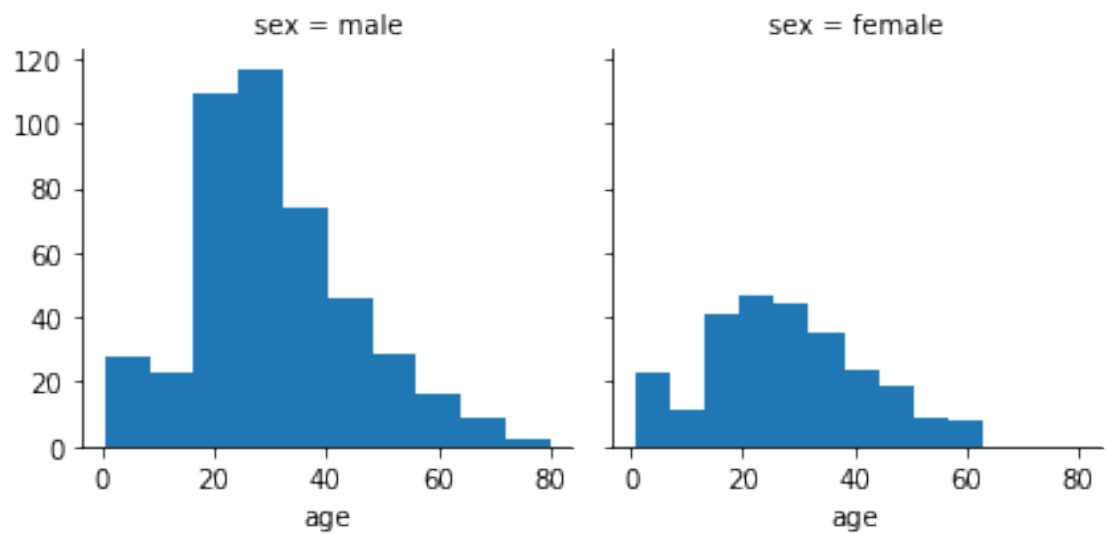
```
[24]: sns.heatmap( titanic.corr(), cmap = 'coolwarm')
plt.title('titanic.corr()')
```

```
[24]: Text(0.5, 1.0, 'titanic.corr()')
```



```
[29]: f = sns.FacetGrid(data = titanic, col = 'sex')
f.map(plt.hist, 'age')
```

```
[29]: <seaborn.axisgrid.FacetGrid at 0x1bd0d61cac0>
```



[ ]: