seaborn

October 3, 2021

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

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

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

[ ]:
```
   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
```

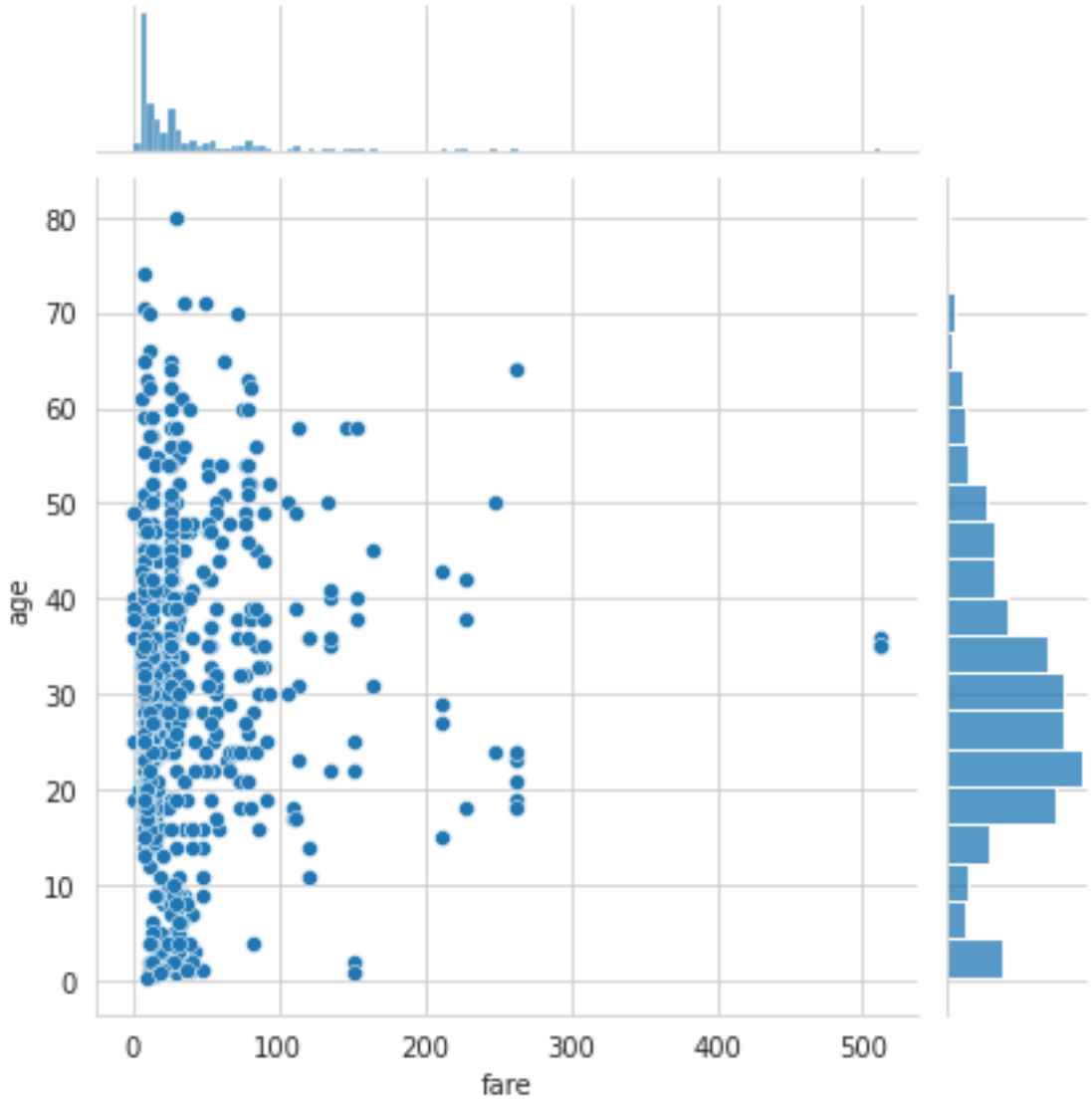
1 PONHA O SEU CÓDIGO AQUI,

2 POIS SE USASSE A LINHA DEBAIXO, PODERIA ACABAR APAGANDO O PLOT QUE DESEJAMOS

3 ENCONTRAR.

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

[ ]:
```
<seaborn.axisgrid.JointGrid at 0x7f38af525a60>
```

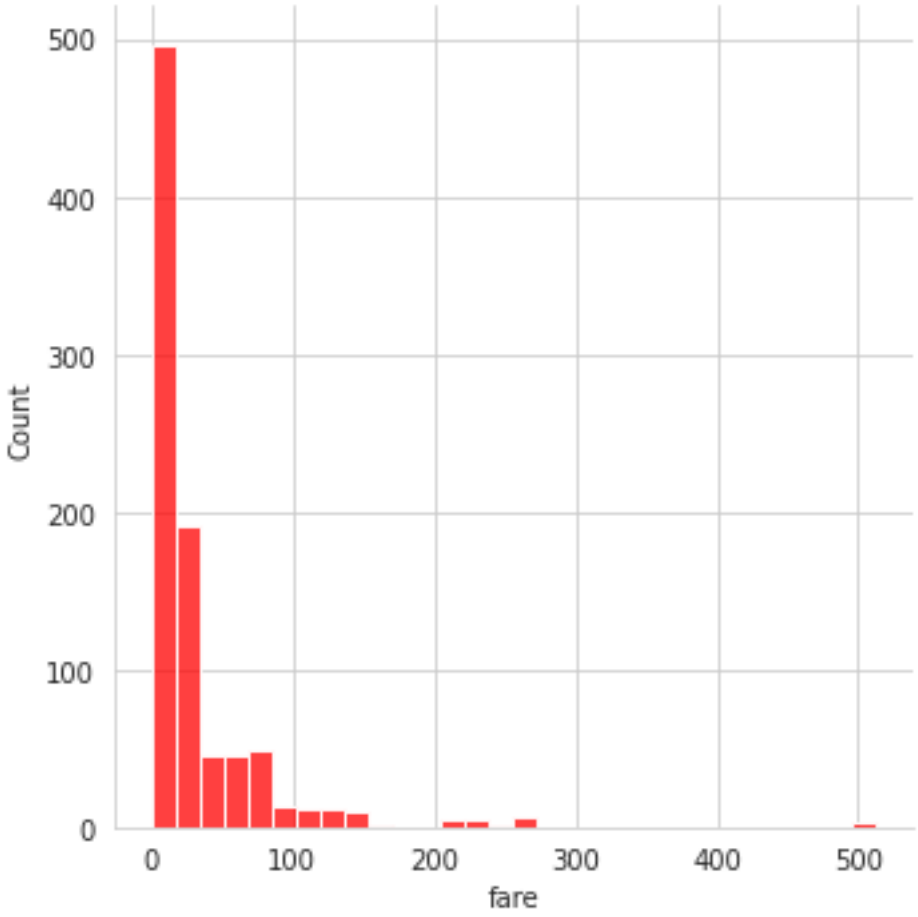


4 PONHA O SEU CÓDIGO AQUI,

5 POIS SE USASSE A LINHA DEBAIXO, PODERIA ACABAR APAGANDO O PLOT QUE DESEJAMOS ENCONTRAR

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

[ ]: <seaborn.axisgrid.FacetGrid at 0x7f38ad0eee80>

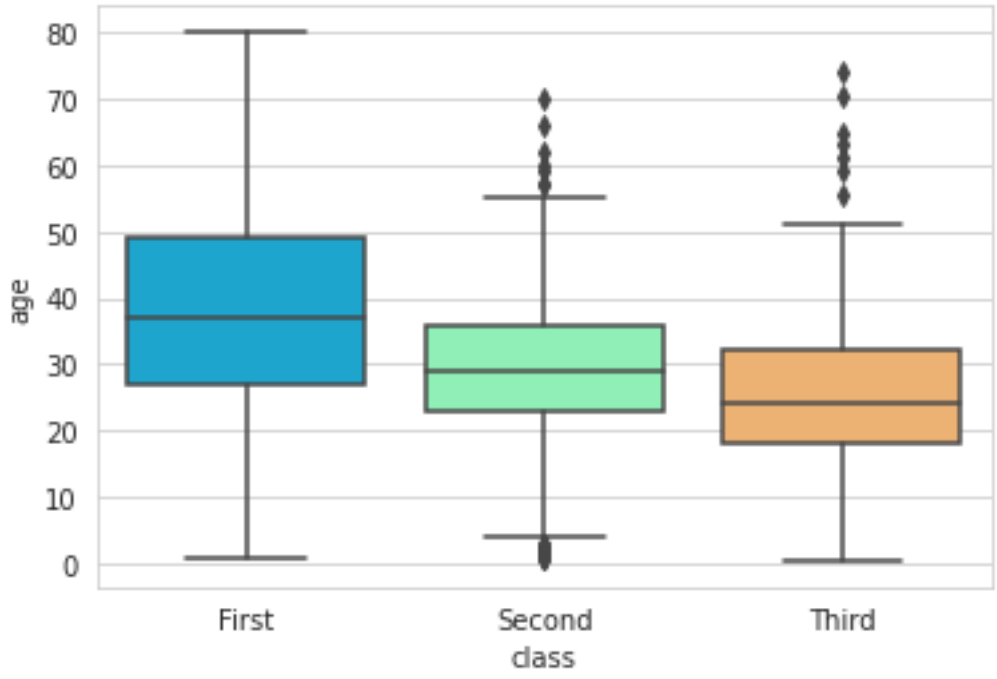


6 PONHA O SEU CÓDIGO AQUI,

7 POIS SE USASSE A LINHA DEBAIXO, PODERIA ACABAR APAGANDO O PLOT QUE DESEJAMOS ENCONTRAR.

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

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

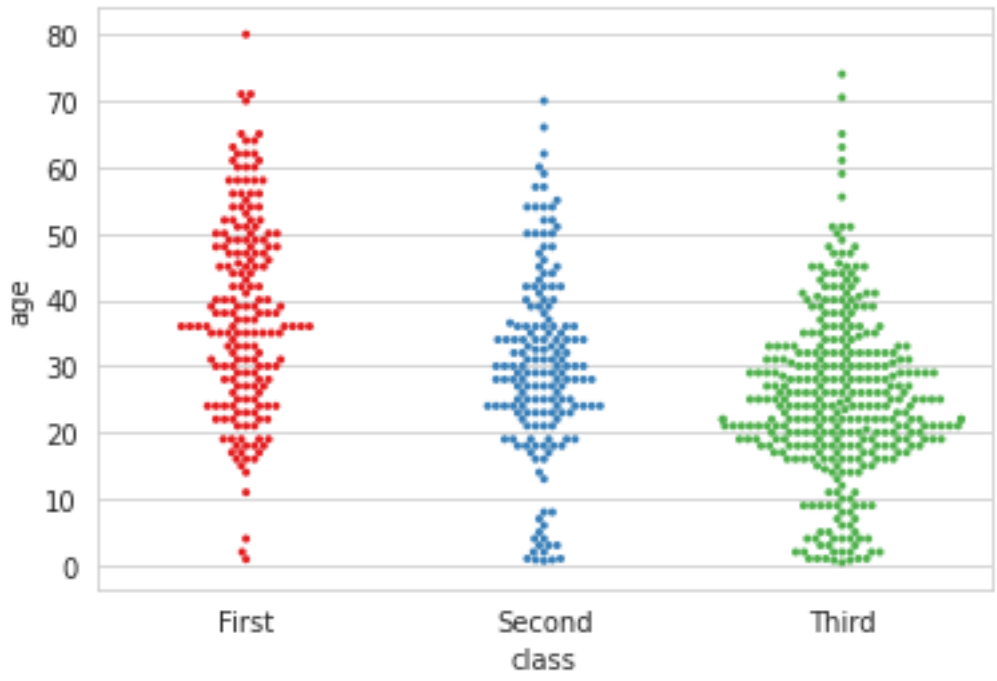


8 PONHA O SEU CÓDIGO AQUI,

9 POIS SE USASSE A LINHA DEBAIXO, PODERIA ACABAR APAGANDO O PLOT QUE DESEJAMOS ENCONTRAR.

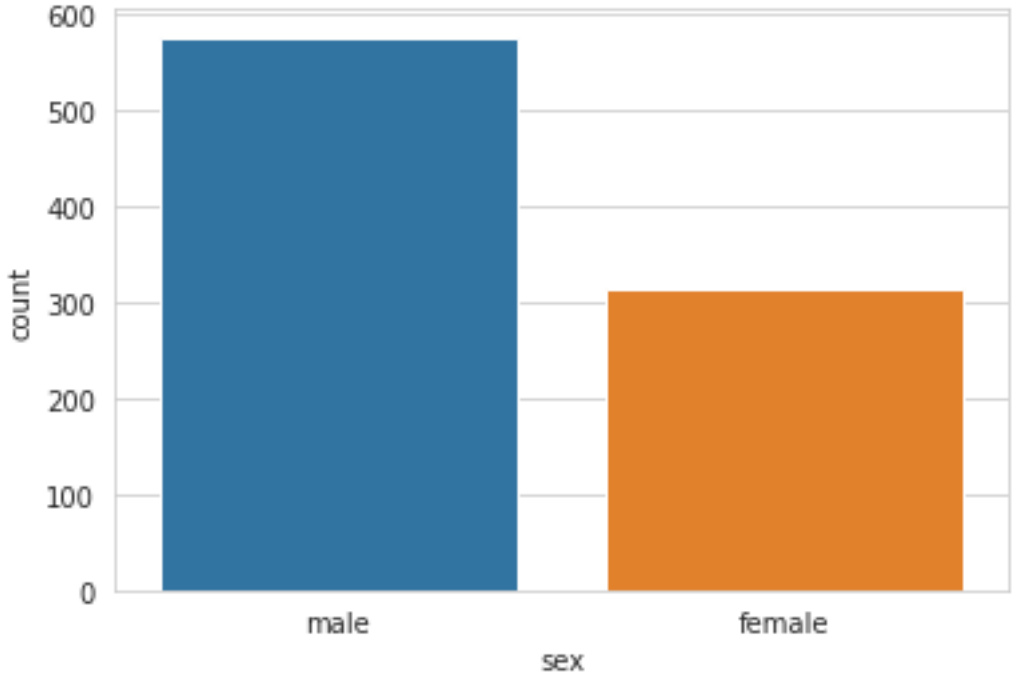
[ ]:
```
sns.swarmplot(x='class',y='age',s= 3,data=titanic,palette='Set1')
```

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



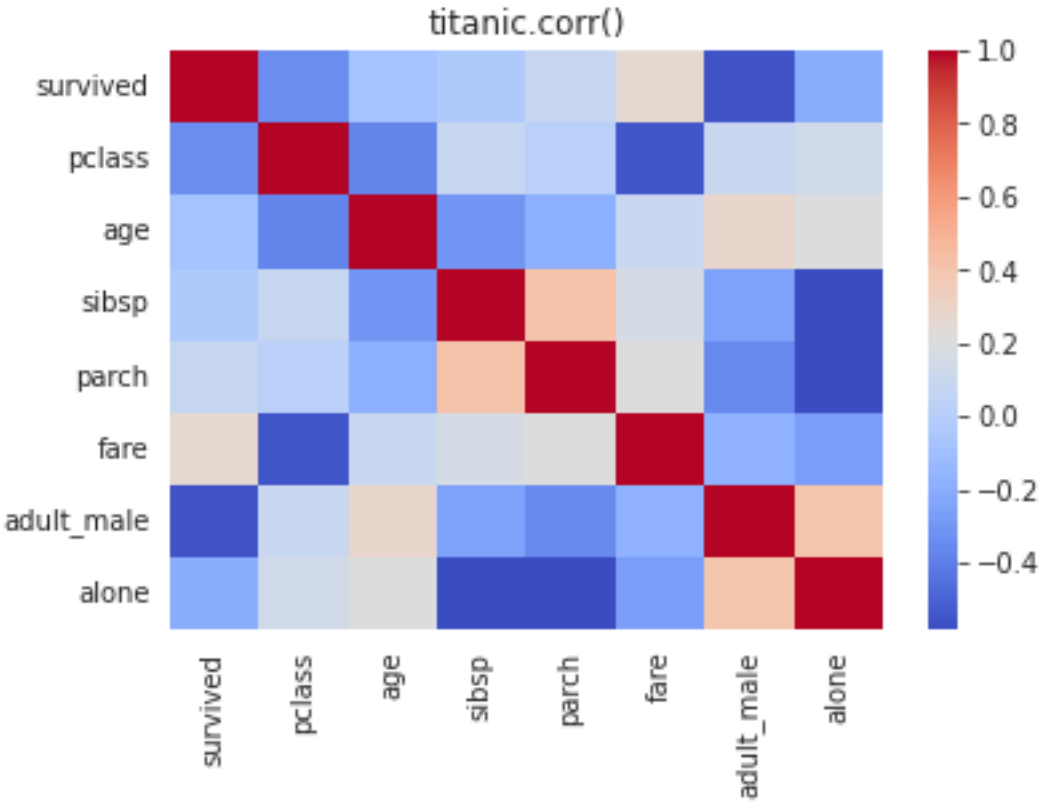
[ ]:
```
sns.countplot(x='sex',data=titanic)
```

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



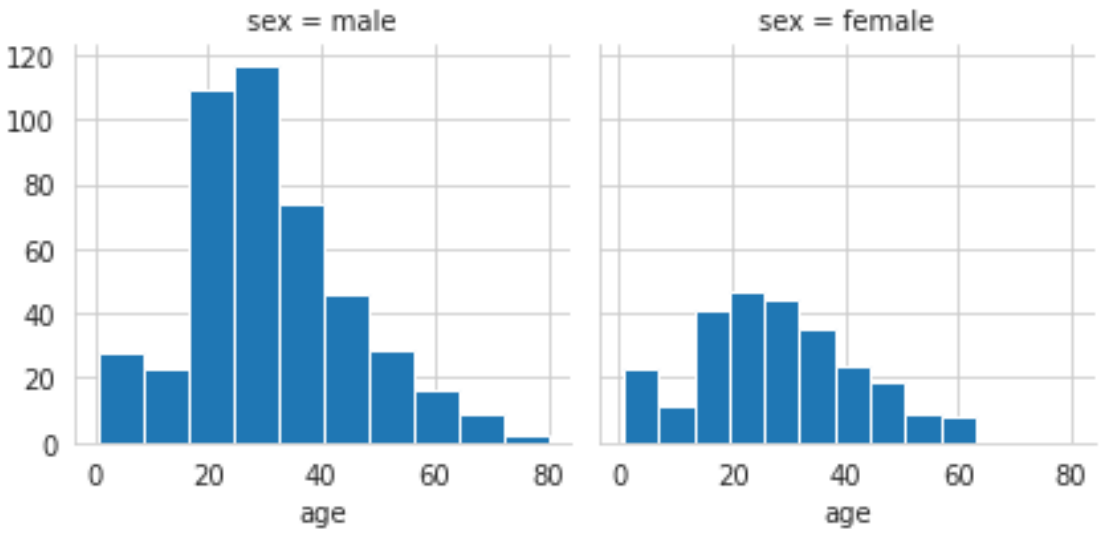
[ ]:
```
sns.heatmap(titanic.corr(),cmap='coolwarm')
plt.title('titanic.corr()')
```

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



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

[ ]:
```
<seaborn.axisgrid.FacetGrid at 0x7f38a6b36f40>
```


sex = male
sex = female
120
100
80
60
40
20
0
0
20
40
60
80
age
age