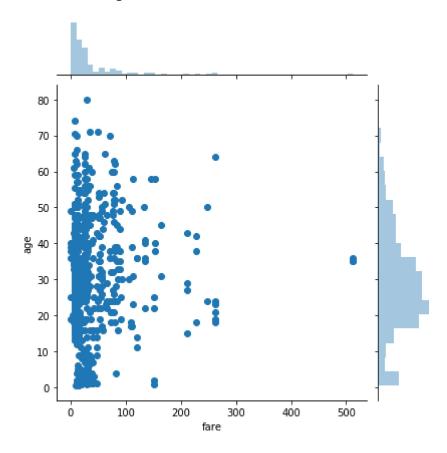
```
In [1]: | pwd
Out[1]: 'C:\\Users\\kranti'
        import seaborn as sns
In [2]:
In [3]: import matplotlib.pyplot as plt
In [4]:
        titanic=sns.load_dataset('titanic')
In [5]: titanic.info()
        <class 'pandas.core.frame.DataFrame'>
        RangeIndex: 891 entries, 0 to 890
        Data columns (total 15 columns):
        survived
                       891 non-null int64
        pclass
                       891 non-null int64
        sex
                       891 non-null object
                       714 non-null float64
        age
                       891 non-null int64
        sibsp
                       891 non-null int64
        parch
        fare
                       891 non-null float64
        embarked
                       889 non-null object
        class
                       891 non-null category
                       891 non-null object
        who
        adult male
                       891 non-null bool
                       203 non-null category
        deck
        embark_town
                       889 non-null object
                       891 non-null object
        alive
                       891 non-null bool
        alone
        dtypes: bool(2), category(2), float64(2), int64(4), object(5)
        memory usage: 80.6+ KB
In [6]: titanic.describe()
Out[6]:
```

	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 [7]: | titanic.columns
'alive', 'alone'],
             dtype='object')
In [8]: | titanic.head()
Out[8]:
           survived pclass
                              age sibsp parch
                                                fare embarked class
                                                                   who adult_male
                          sex
        0
                0
                                                          S
                      3
                         male
                              22.0
                                     1
                                              7.2500
                                                             Third
                                                                   man
                                                                            True
        1
                1
                      1 female
                              38.0
                                           0 71.2833
                                                          С
                                                             First woman
                                                                            False
                                     1
                      3 female
                              26.0
                                     0
                                              7.9250
                                                          S
                                                             Third woman
                                                                            False
        3
                              35.0
                                           0 53.1000
                                                          S
                                                                            False
                1
                      1
                        female
                                     1
                                                             First woman
                                     0
                0
                      3
                          male 35.0
                                           0
                                              8.0500
                                                            Third
                                                          S
                                                                   man
                                                                            True
In [9]: type(titanic)
```

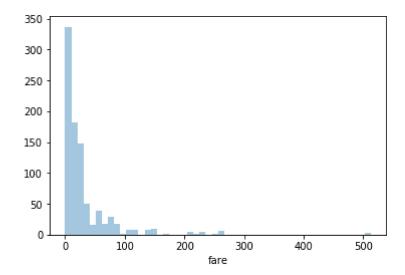
Out[9]: pandas.core.frame.DataFrame

Out[10]: <seaborn.axisgrid.JointGrid at 0x218009ddcc8>



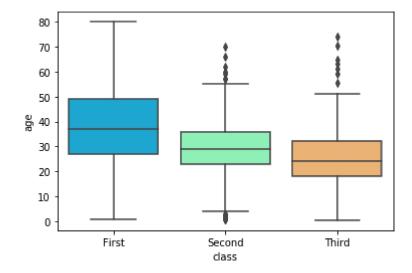
In [11]: sns.distplot(titanic['fare'],kde=False)

Out[11]: <matplotlib.axes._subplots.AxesSubplot at 0x2180262be08>



```
In [12]: sns.boxplot(x='class',y='age',data=titanic,palette='rainbow')
```

Out[12]: <matplotlib.axes._subplots.AxesSubplot at 0x21802741248>



In [13]: sns.swarmplot(x='class',y='age',data=titanic,palette='Set2')

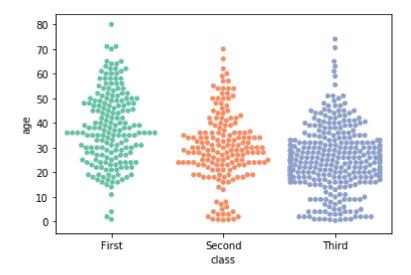
C:\Users\kranti\Anaconda3\lib\site-packages\seaborn\categorical.py:1324: Runt
imeWarning: invalid value encountered in less

off_low = points < low_gutter</pre>

C:\Users\kranti\Anaconda3\lib\site-packages\seaborn\categorical.py:1328: Runt
imeWarning: invalid value encountered in greater

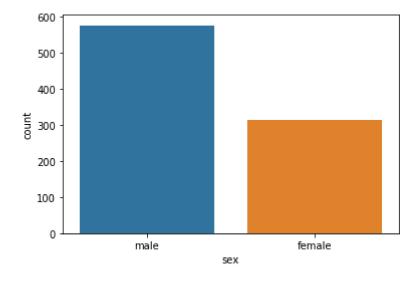
off_high = points > high_gutter

Out[13]: <matplotlib.axes._subplots.AxesSubplot at 0x218027d2248>



In [14]: sns.countplot(x='sex',data=titanic)

Out[14]: <matplotlib.axes._subplots.AxesSubplot at 0x2180282a508>



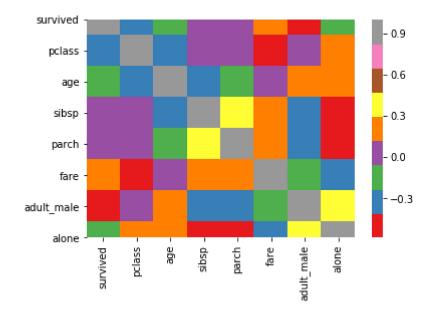
In [15]: data = titanic
data.corr()

Out[15]:

	survived	pclass	age	sibsp	parch	fare	adult_male	alon€
survived	1.000000	-0.338481	-0.077221	-0.035322	0.081629	0.257307	-0.557080	-0.203367
pclass	-0.338481	1.000000	-0.369226	0.083081	0.018443	-0.549500	0.094035	0.135207
age	-0.077221	-0.369226	1.000000	-0.308247	-0.189119	0.096067	0.280328	0.198270
sibsp	-0.035322	0.083081	-0.308247	1.000000	0.414838	0.159651	-0.253586	-0.584471
parch	0.081629	0.018443	-0.189119	0.414838	1.000000	0.216225	-0.349943	-0.583398
fare	0.257307	-0.549500	0.096067	0.159651	0.216225	1.000000	-0.182024	-0.271832
adult_male	-0.557080	0.094035	0.280328	-0.253586	-0.349943	-0.182024	1.000000	0.404744
alone	-0.203367	0.135207	0.198270	-0.584471	-0.583398	-0.271832	0.404744	1.000000

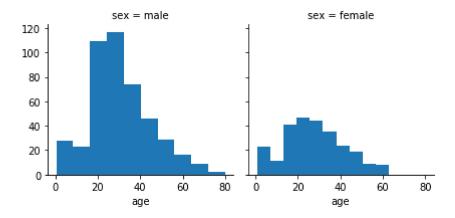
```
In [31]: sns.heatmap(data.corr(),cmap='Set',annot=False)
```

Out[31]: <matplotlib.axes._subplots.AxesSubplot at 0x2180aa92f08>



```
In [24]: g3 =sns.FacetGrid(titanic,col="sex")
g3.map(plt.hist,"age")
```

Out[24]: <seaborn.axisgrid.FacetGrid at 0x218060b1748>



```
In [ ]:
```