In [1]:
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

In [2]:
```
dataset = sns.load_dataset('titanic')
```

In [3]:
```
dataset.head()
```

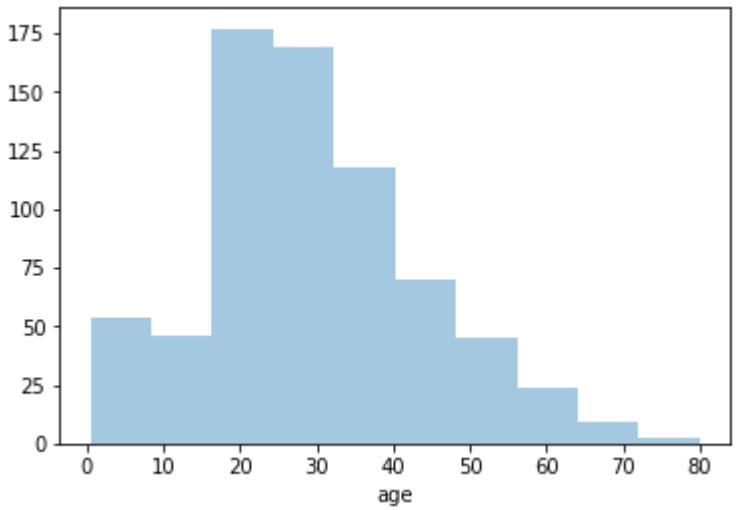
Out[3]:

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

In [4]:
```
sns.distplot(dataset['age'],bins=10, kde = False)
```

```
/home/rmdstic/anaconda3/lib/python3.7/site-packages/numpy/lib/histo
grams.py:824: RuntimeWarning: invalid value encountered in greater_
equal
  keep = (tmp_a >= first_edge)
/home/rmdstic/anaconda3/lib/python3.7/site-packages/numpy/lib/histo
grams.py:825: RuntimeWarning: invalid value encountered in less_equ
al
  keep &= (tmp_a <= last_edge)
```

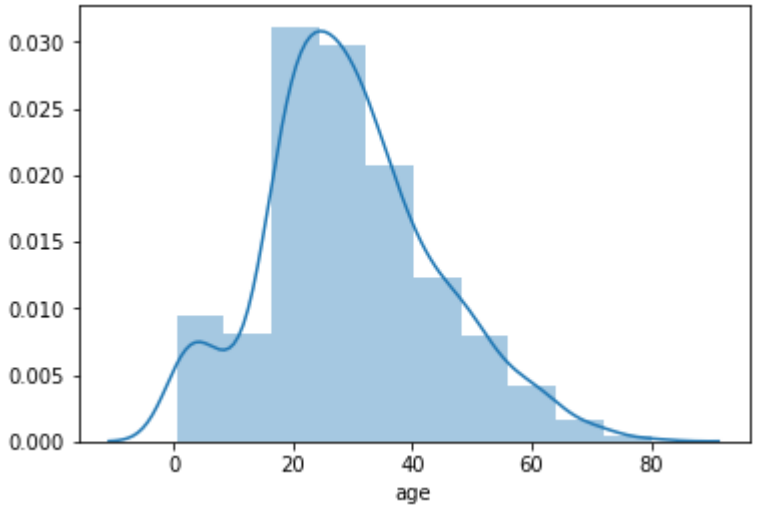
Out[4]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x7fb5b3cf06a0>
```



In [5]:
```
sns.distplot(dataset['age'],bins=10)
```

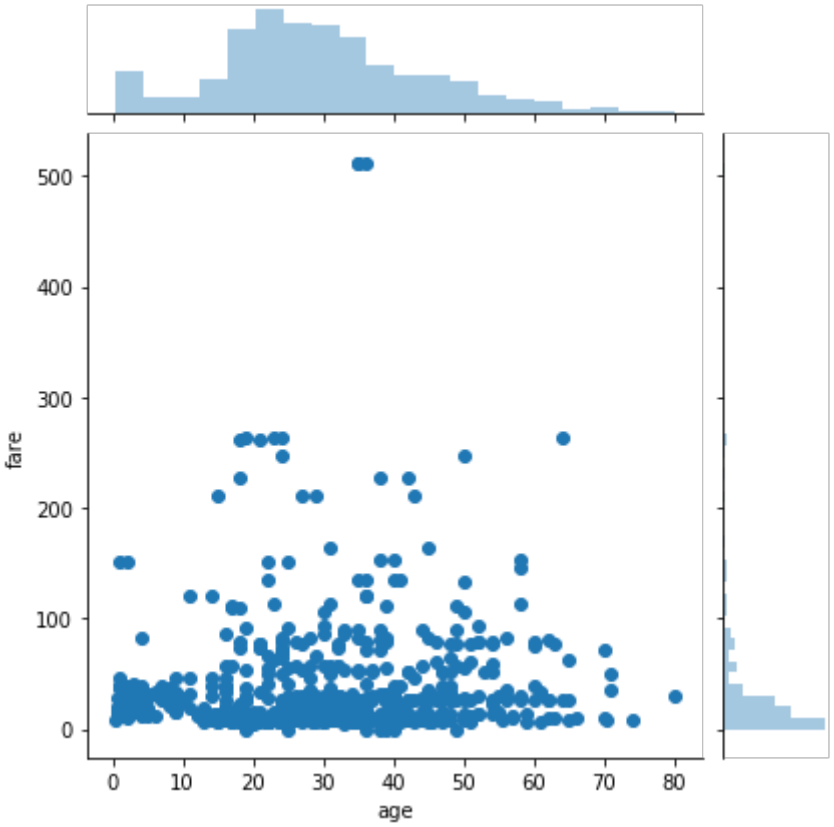
```
/home/rmdstic/anaconda3/lib/python3.7/site-packages/statsmodels/non
parametric/kde.py:448: RuntimeWarning: invalid value encountered in
greater
  X = X[np.logical_and(X > clip[0], X < clip[1])] # won't work for
two columns.
/home/rmdstic/anaconda3/lib/python3.7/site-packages/statsmodels/non
parametric/kde.py:448: RuntimeWarning: invalid value encountered in
less
  X = X[np.logical_and(X > clip[0], X < clip[1])] # won't work for
two columns.
```

Out[5]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x7fb5b3d6e208>
```



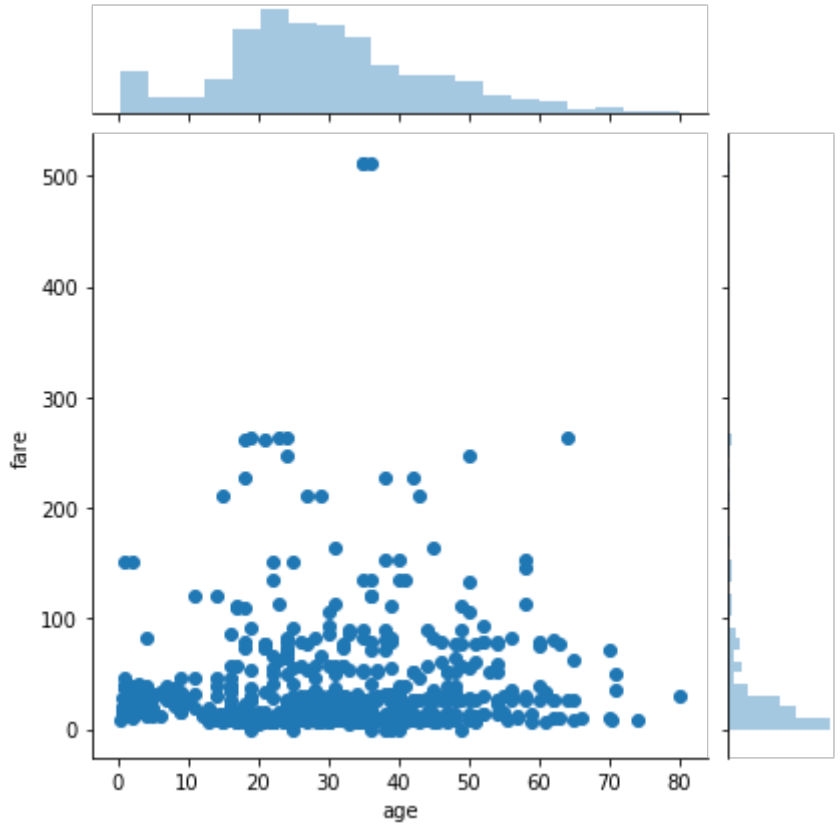
In [6]:
```
sns.jointplot(x = dataset["age"], y=dataset['fare'],kind = 'scatter'
```

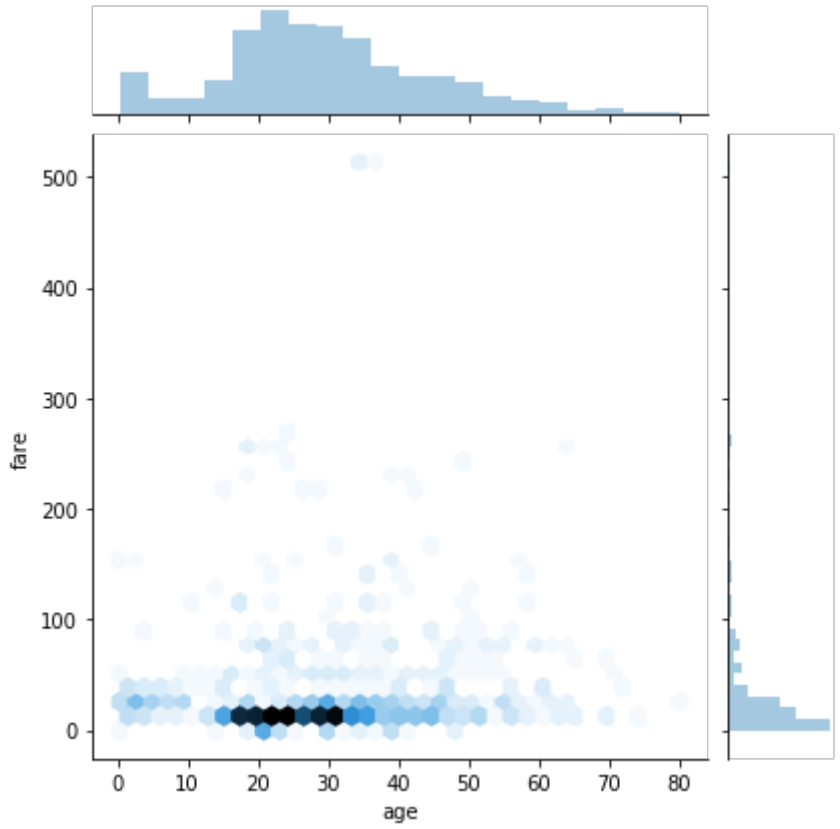
Out[6]:
```
<seaborn.axisgrid.JointGrid at 0x7fb5b392ec88>
```



In [7]:
```
sns.jointplot(x = dataset["age"], y=dataset['fare'],kind = 'scatter'
sns.jointplot(x = dataset["age"], y=dataset['fare'],kind = 'hex')
```

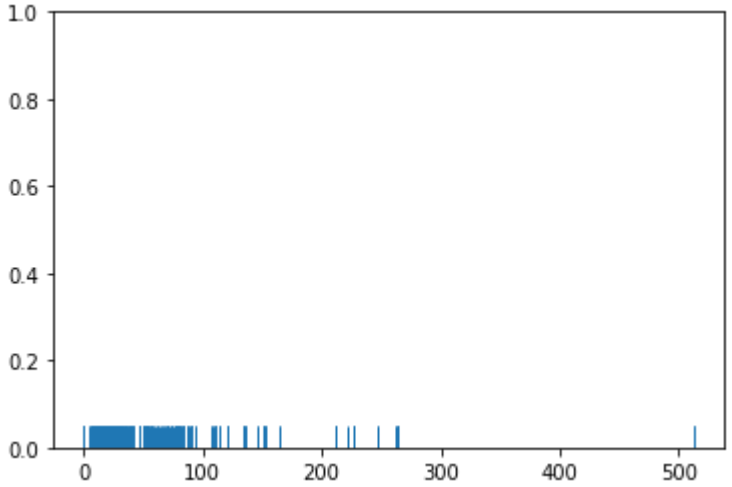
Out[7]: <seaborn.axisgrid.JointGrid at 0x7fb5b3750e48>





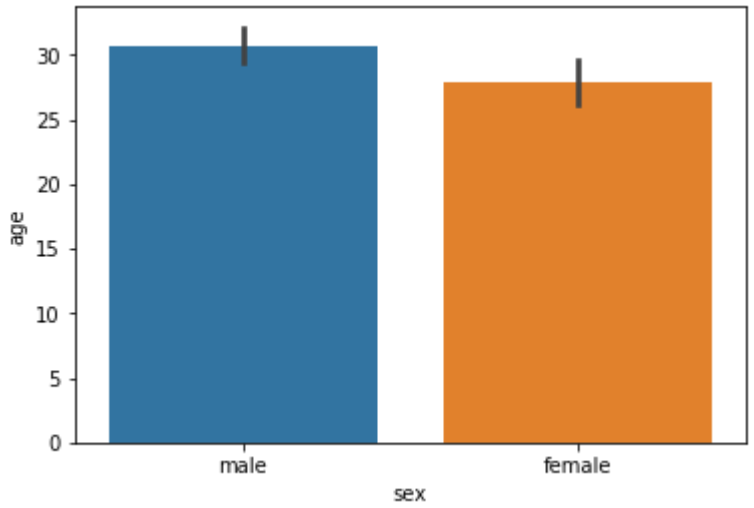
In [8]:
```
sns.rugplot(dataset['fare'])
```

Out[8]: <matplotlib.axes._subplots.AxesSubplot at 0x7fb5b34d4898>



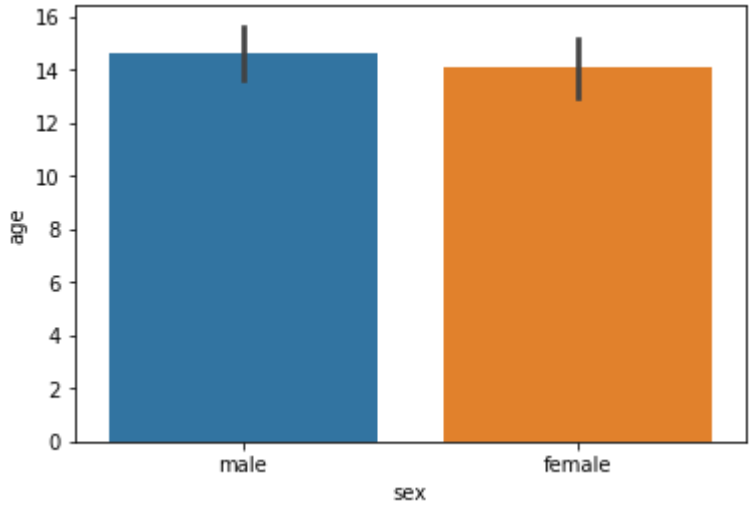
In [9]:
```
sns.barplot(x= 'sex',y= "age" , data= dataset)
```

Out[9]: <matplotlib.axes._subplots.AxesSubplot at 0x7fb5b3346d68>



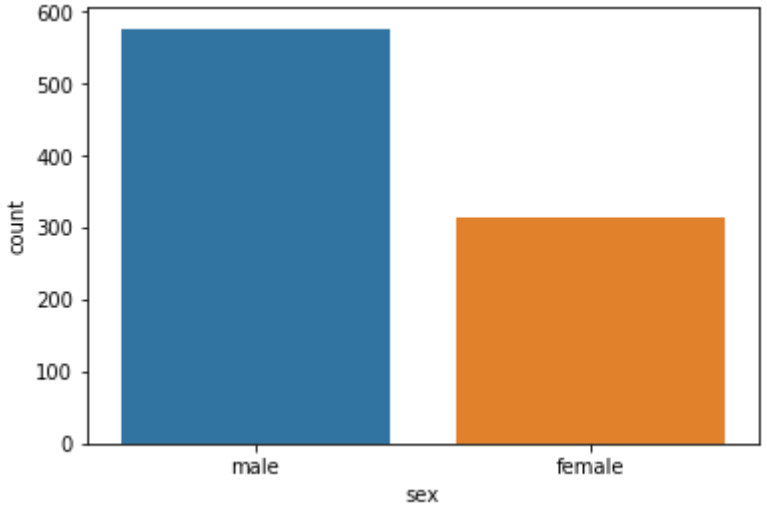
In [10]:
```
sns.barplot(x= 'sex',y= "age" , data= dataset, estimator =np.std)
```

Out[10]: <matplotlib.axes._subplots.AxesSubplot at 0x7fb5b33347b8>



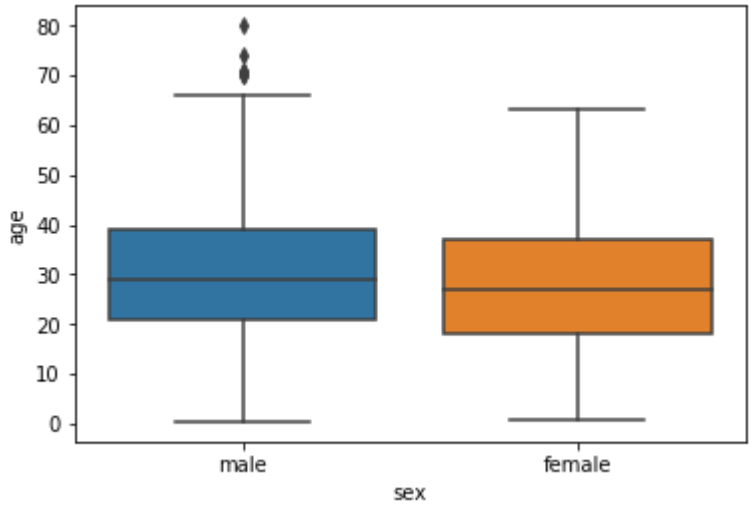
In [11]:
```
sns.countplot(x ="sex", data= dataset)
```

Out[11]: <matplotlib.axes._subplots.AxesSubplot at 0x7fb5b3290f28>



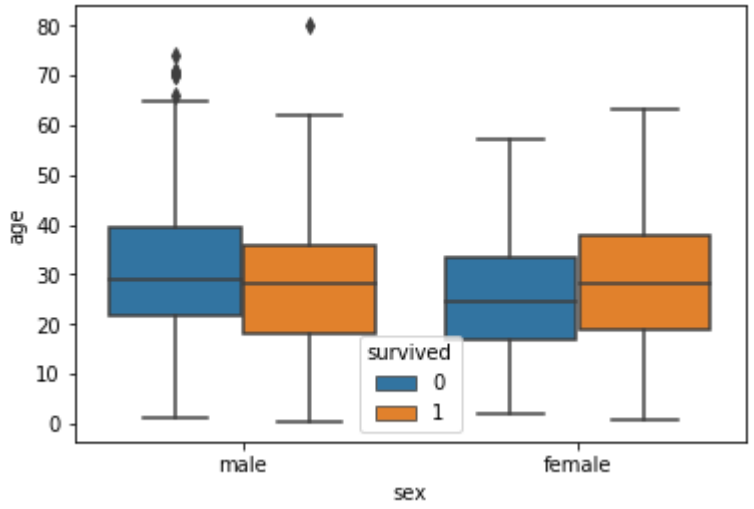
In [12]:
```
sns.boxplot(x= 'sex',y= "age" , data= dataset)
```

Out[12]: <matplotlib.axes._subplots.AxesSubplot at 0x7fb5b36b51d0>



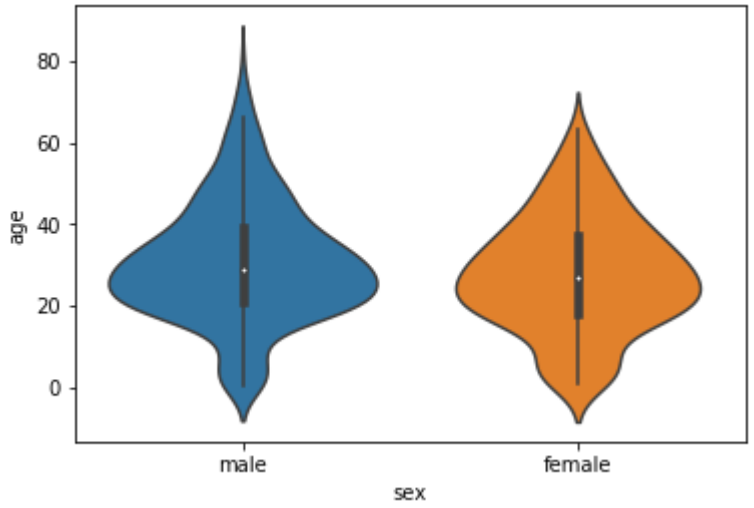
In [13]:
```
sns.boxplot(x= 'sex',y= "age" , data= dataset, hue="survived")
```

Out[13]: <matplotlib.axes._subplots.AxesSubplot at 0x7fb5b36e29b0>



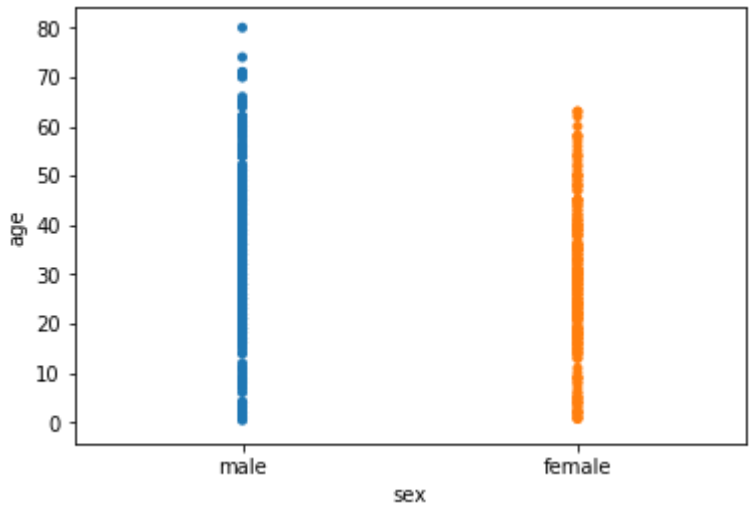
In [14]:
```
sns.violinplot(x= 'sex',y= "age" , data= dataset)
```

Out[14]: <matplotlib.axes._subplots.AxesSubplot at 0x7fb5b36497b8>



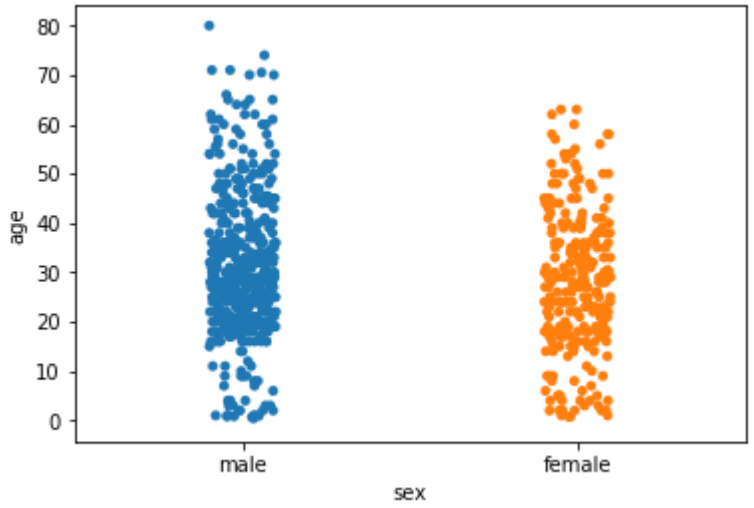
In [15]:
```
sns.stripplot(x= 'sex',y= "age" , data= dataset, jitter=False)
```

Out[15]: <matplotlib.axes._subplots.AxesSubplot at 0x7fb5b3255da0>



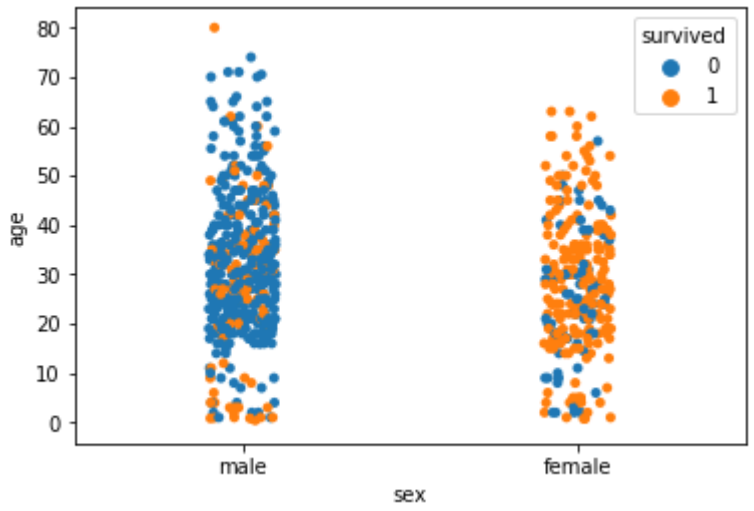
In [16]:
```
sns.stripplot(x= 'sex',y= "age" , data= dataset, jitter=True)
```

Out[16]: <matplotlib.axes._subplots.AxesSubplot at 0x7fb5b321d2e8>



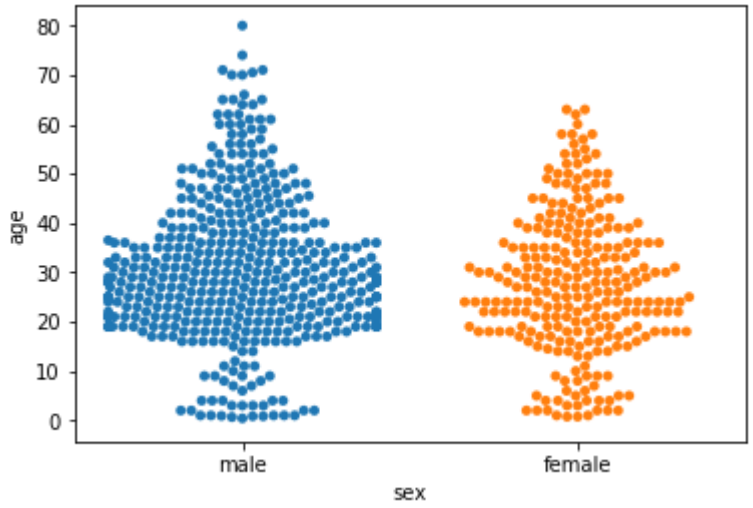
In [17]:
```
sns.stripplot(x= 'sex',y= "age" , data= dataset, jitter=True ,hue="s
```

Out[17]: <matplotlib.axes._subplots.AxesSubplot at 0x7fb5b31e4f98>



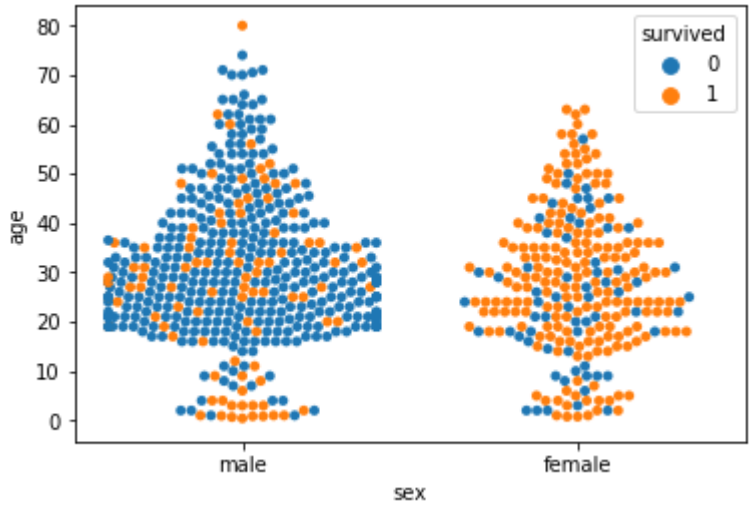
In [18]:
```
sns.swarmplot(x= 'sex',y= "age" , data= dataset)
```

Out[18]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x7fb5b31a97f0>
```



In [19]:
```
sns.swarmplot(x= 'sex',y= "age" , data= dataset,hue="survived")
```

Out[19]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x7fb5b3133860>
```



In [20]:
```
dataset.head()
```

Out[20]:

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

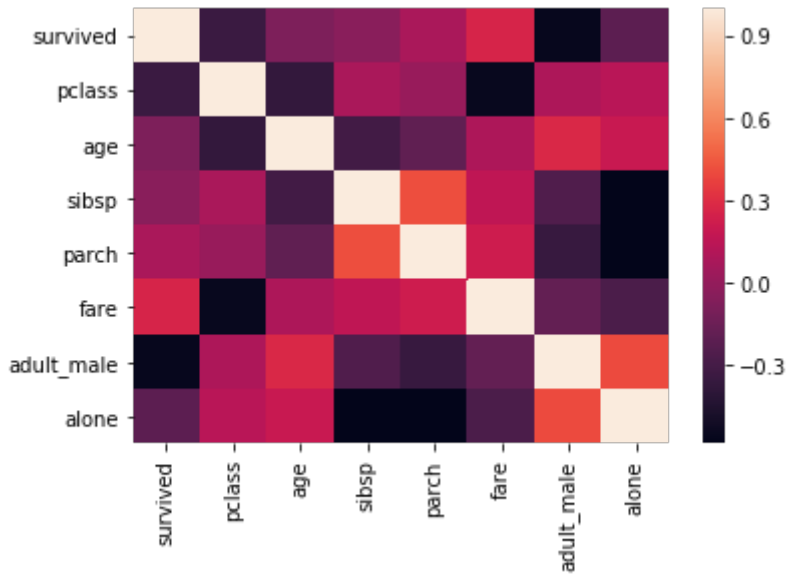
In [21]:
```
dataset.corr()
```

Out[21]:

	survived	pclass	age	sibsp	parch	fare	adult_male	a
survived	1.000000	-0.338481	-0.077221	-0.035322	0.081629	0.257307	-0.557080	-0.20
pclass	-0.338481	1.000000	-0.369226	0.083081	0.018443	-0.549500	0.094035	0.13
age	-0.077221	-0.369226	1.000000	-0.308247	-0.189119	0.096067	0.280328	0.19
sibsp	-0.035322	0.083081	-0.308247	1.000000	0.414838	0.159651	-0.253586	-0.58
parch	0.081629	0.018443	-0.189119	0.414838	1.000000	0.216225	-0.349943	-0.58
fare	0.257307	-0.549500	0.096067	0.159651	0.216225	1.000000	-0.182024	-0.27
adult_male	-0.557080	0.094035	0.280328	-0.253586	-0.349943	-0.182024	1.000000	0.40
alone	-0.203367	0.135207	0.198270	-0.584471	-0.583398	-0.271832	0.404744	1.00

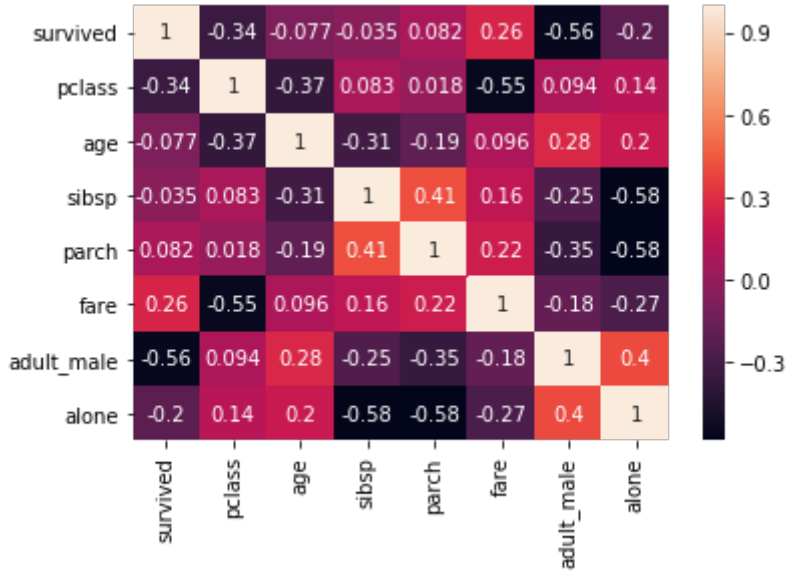
In [22]:
```
corr= dataset.corr()
sns.heatmap(corr)
```

Out[22]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x7fb5b18aee10>
```



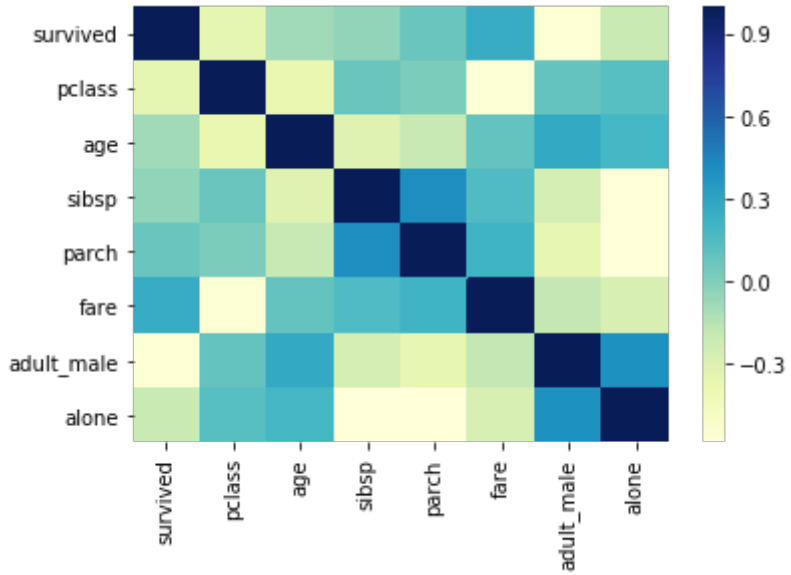
In [23]:
```
corr= dataset.corr()
sns.heatmap(corr, annot =True)
```

Out[23]: <matplotlib.axes._subplots.AxesSubplot at 0x7fb5b17fa208>



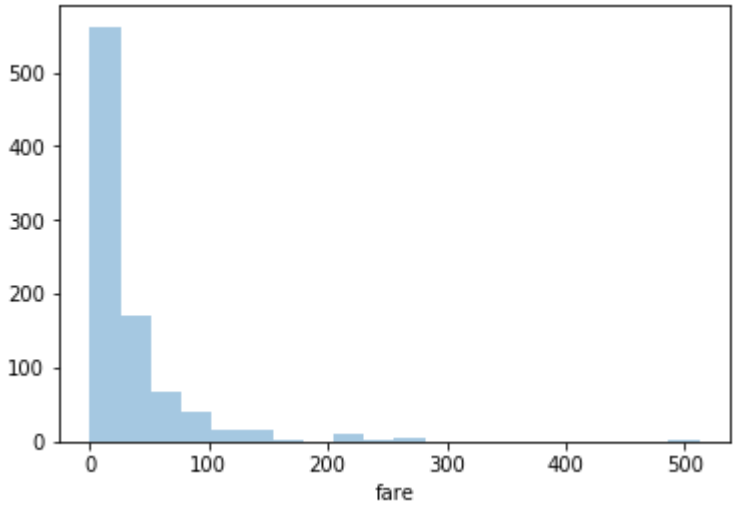
In [24]:
```
corr= dataset.corr()
sns.heatmap(corr, cmap ="YlGnBu")
```

Out[24]: <matplotlib.axes._subplots.AxesSubplot at 0x7fb5b06a5f98>



In [25]:
```
sns.distplot(dataset['fare'],kde =False ,bins= 20)
```

Out[25]:
```
<matplotlib.axes._subplots.AxesSubplot at 0x7fb5b05b6dd8>
```



In [ ]:
```

```