

Seaborn_python

April 24, 2022

```
[1]: import seaborn as sns
```

```
[2]: sns.get_dataset_names()
```

```
[2]: ['anagrams',  
      'anscombe',  
      'attention',  
      'brain_networks',  
      'car_crashes',  
      'diamonds',  
      'dots',  
      'exercise',  
      'flights',  
      'fmri',  
      'gammas',  
      'geyser',  
      'iris',  
      'mpg',  
      'penguins',  
      'planets',  
      'taxis',  
      'tips',  
      'titanic']
```

```
[4]: tips=sns.load_dataset("tips")  
iris=sns.load_dataset("iris")  
titanic=sns.load_dataset("titanic")  
planets=sns.load_dataset("planets")
```

```
[5]: tips
```

```
[5]:
```

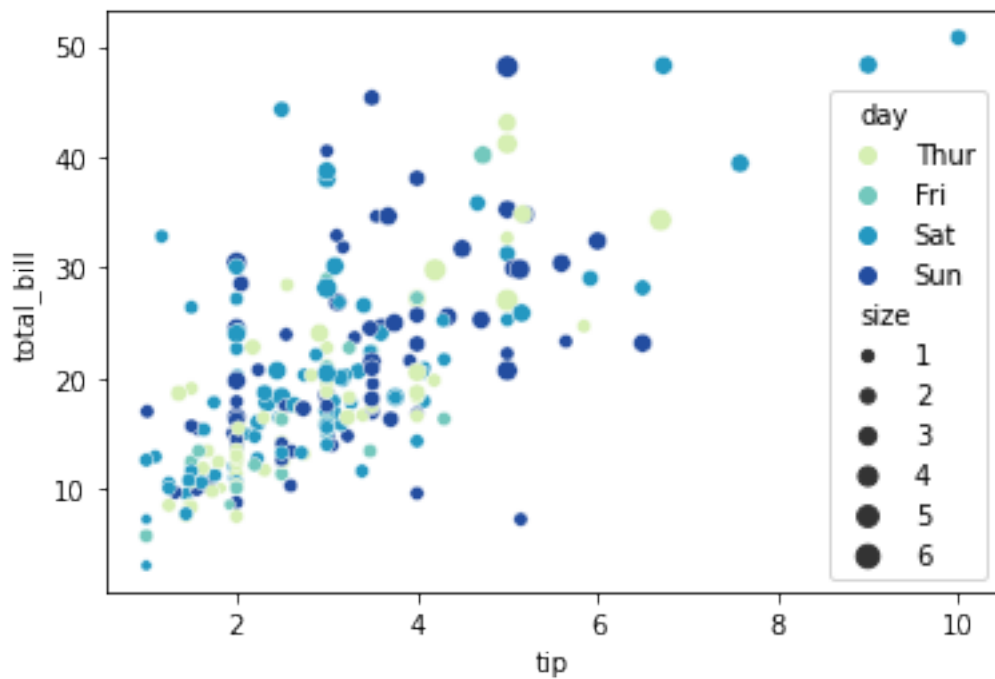
	total_bill	tip	sex	smoker	day	time	size
0	16.99	1.01	Female	No	Sun	Dinner	2
1	10.34	1.66	Male	No	Sun	Dinner	3
2	21.01	3.50	Male	No	Sun	Dinner	3
3	23.68	3.31	Male	No	Sun	Dinner	2
4	24.59	3.61	Female	No	Sun	Dinner	4
..

239	29.03	5.92	Male	No	Sat	Dinner	3
240	27.18	2.00	Female	Yes	Sat	Dinner	2
241	22.67	2.00	Male	Yes	Sat	Dinner	2
242	17.82	1.75	Male	No	Sat	Dinner	2
243	18.78	3.00	Female	No	Thur	Dinner	2

[244 rows x 7 columns]

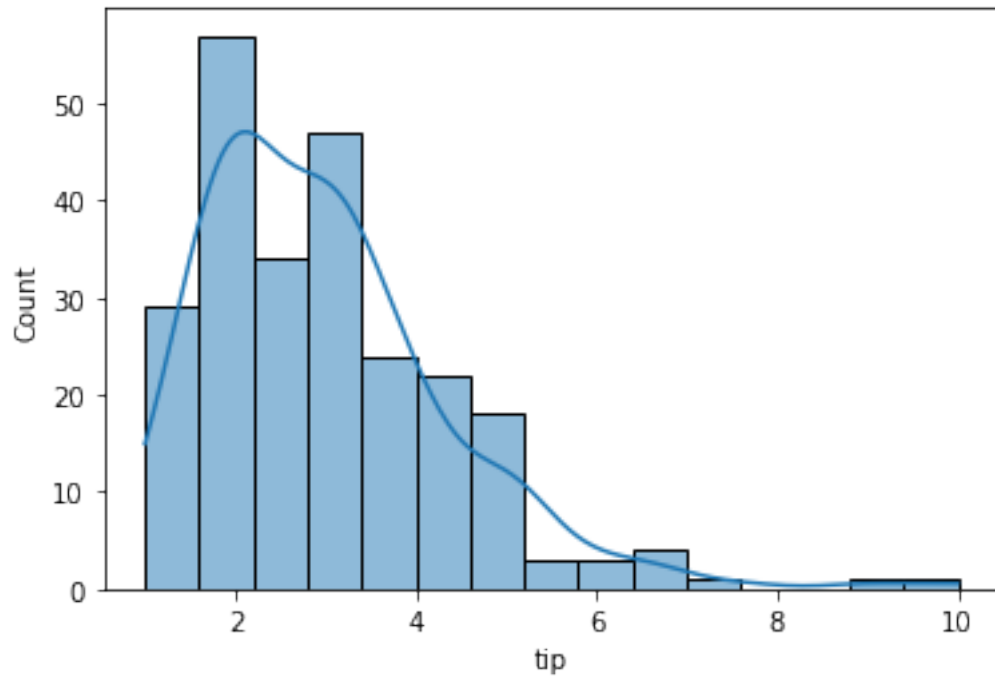
```
[8]: sns.scatterplot(x='tip', y='total_bill',  
→data=tips,hue='day',size='size',palette='YlGnBu')
```

```
[8]: <AxesSubplot:xlabel='tip', ylabel='total_bill'>
```



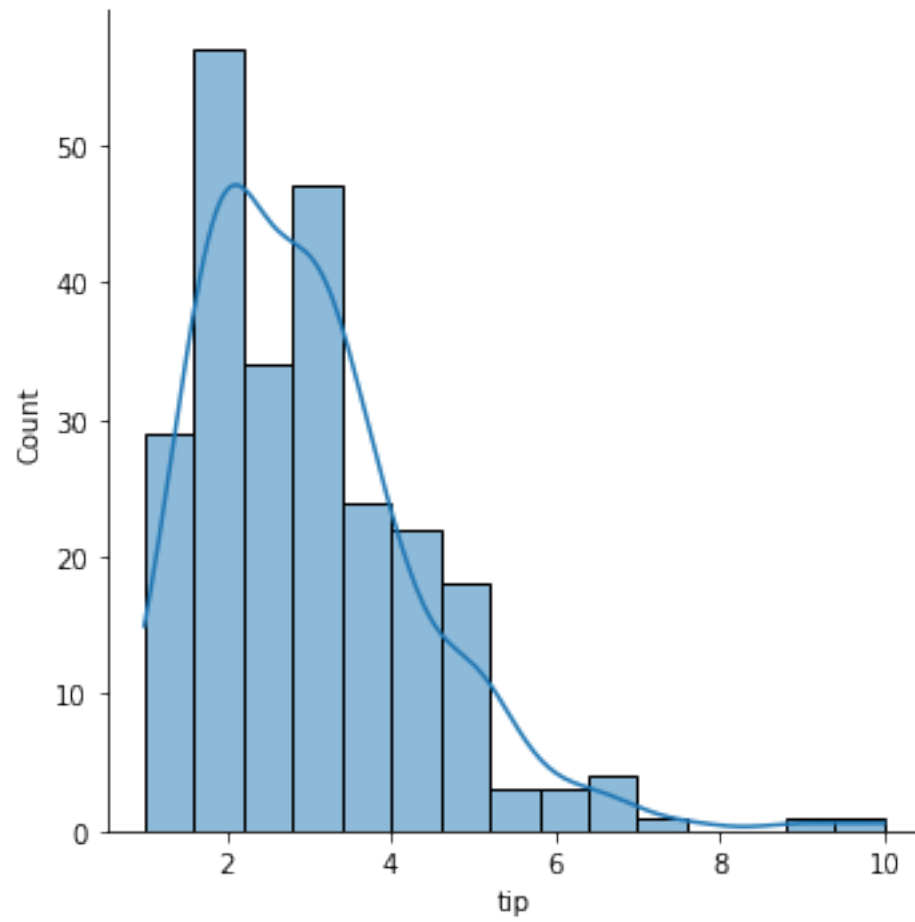
```
[9]: sns.histplot(tips['tip'],kde=True,bins=15)
```

```
[9]: <AxesSubplot:xlabel='tip', ylabel='Count'>
```



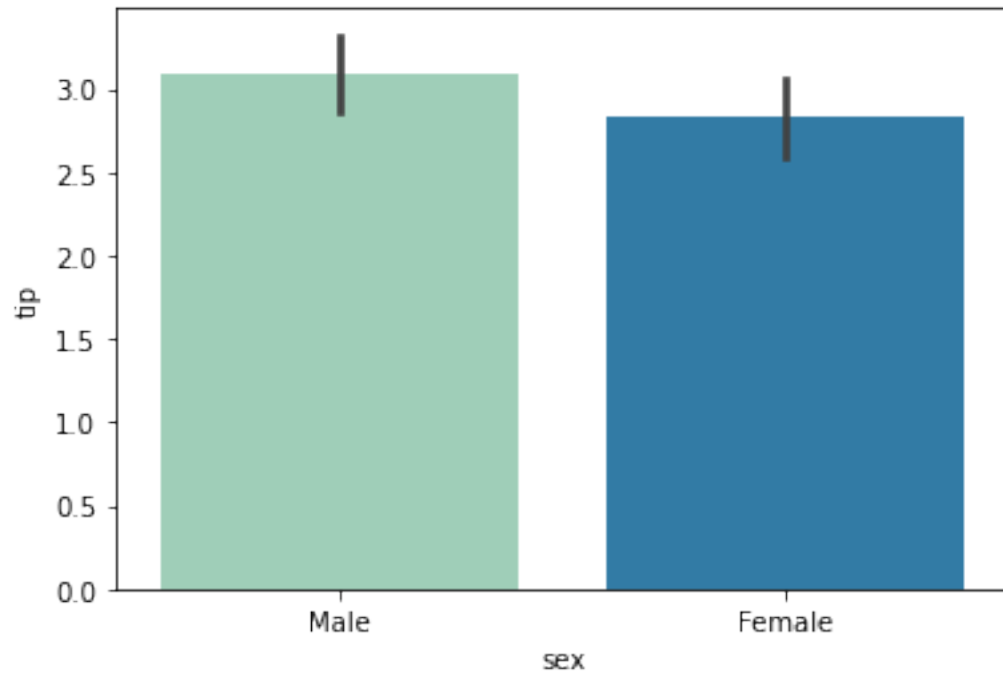
```
[10]: sns.displot(tips['tip'],kde=True,bins=15)
```

```
[10]: <seaborn.axisgrid.FacetGrid at 0x7fccc6329670>
```



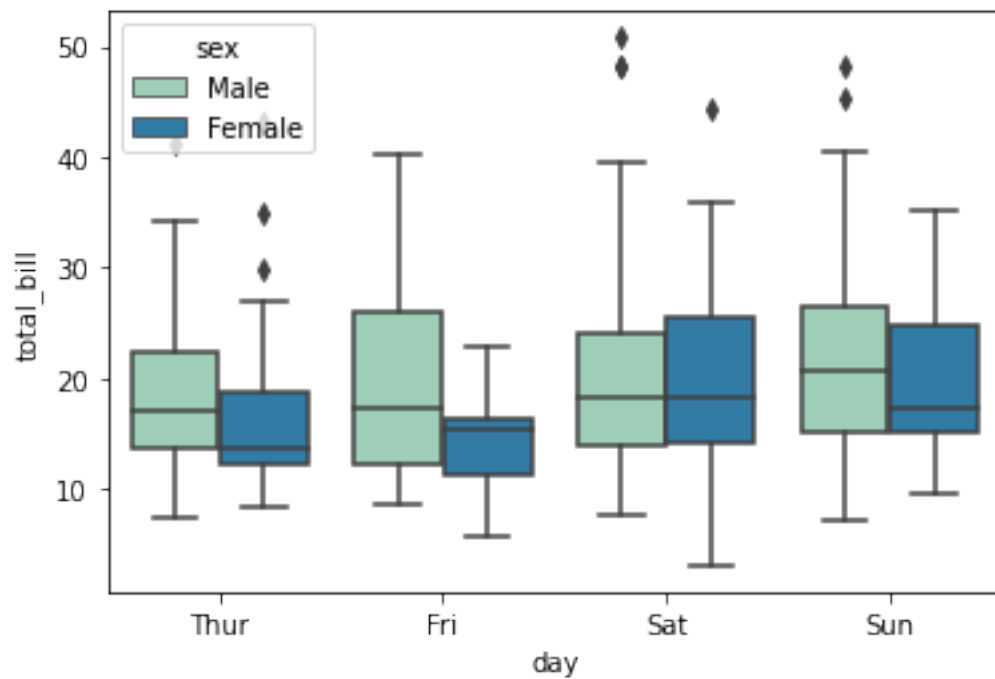
```
[11]: sns.barplot(x='sex',y='tip',data=tips,palette="YlGnBu")
```

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



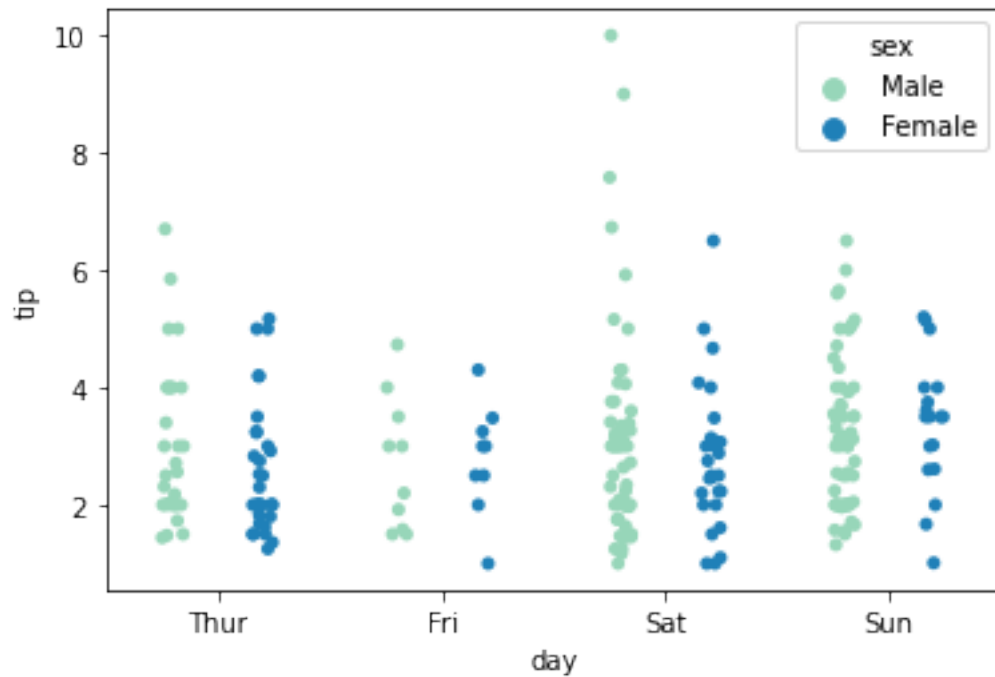
```
[14]: sns.boxplot(x="day",y="total_bill", data=tips,hue="sex",palette="YlGnBu")
```

```
[14]: <AxesSubplot:xlabel='day', ylabel='total_bill'>
```



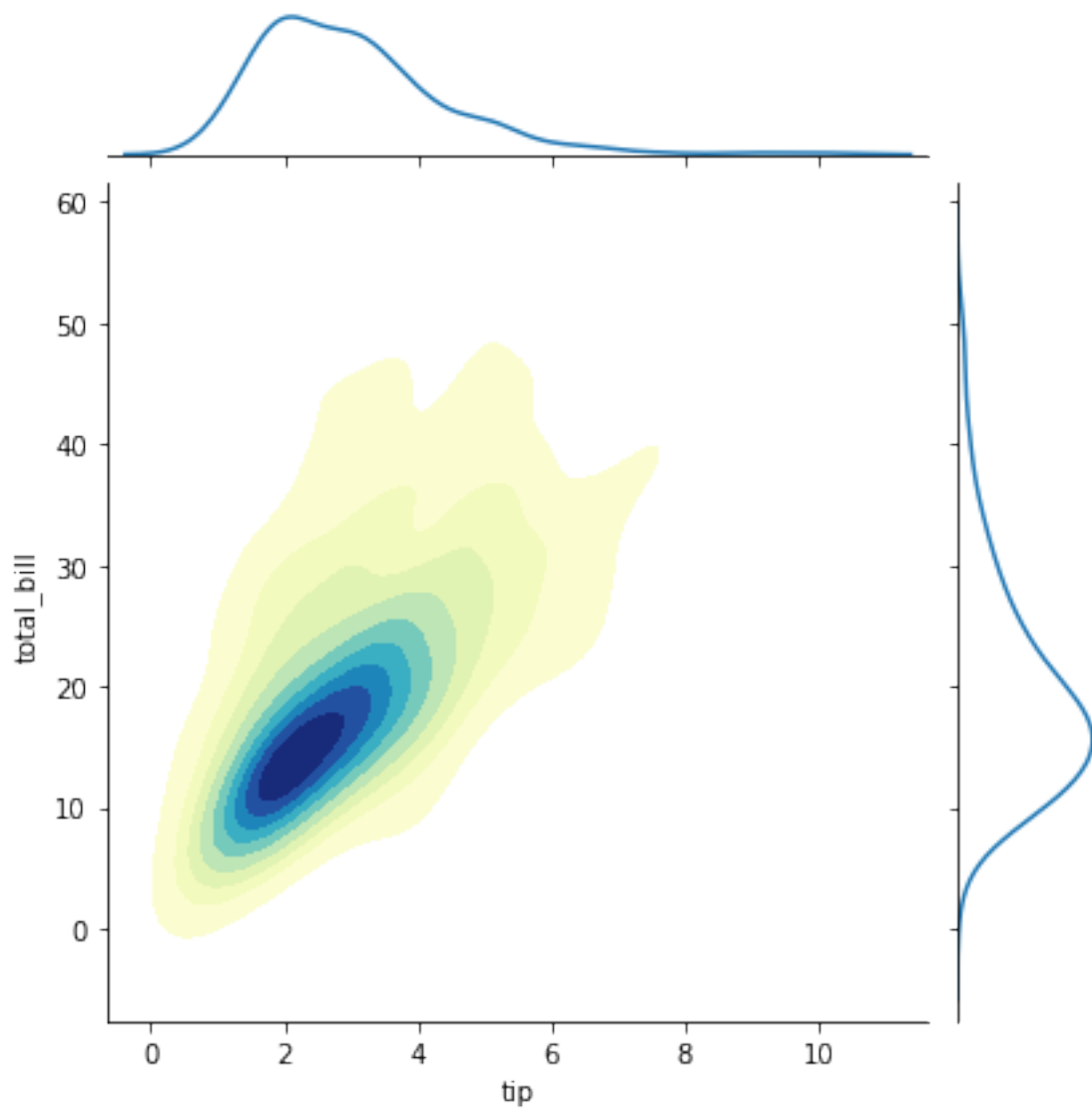
```
[16]: sns.stripplot(x='day',y='tip',data=tips,hue='sex',palette='YlGnBu',dodge=True)
```

```
[16]: <AxesSubplot:xlabel='day', ylabel='tip'>
```



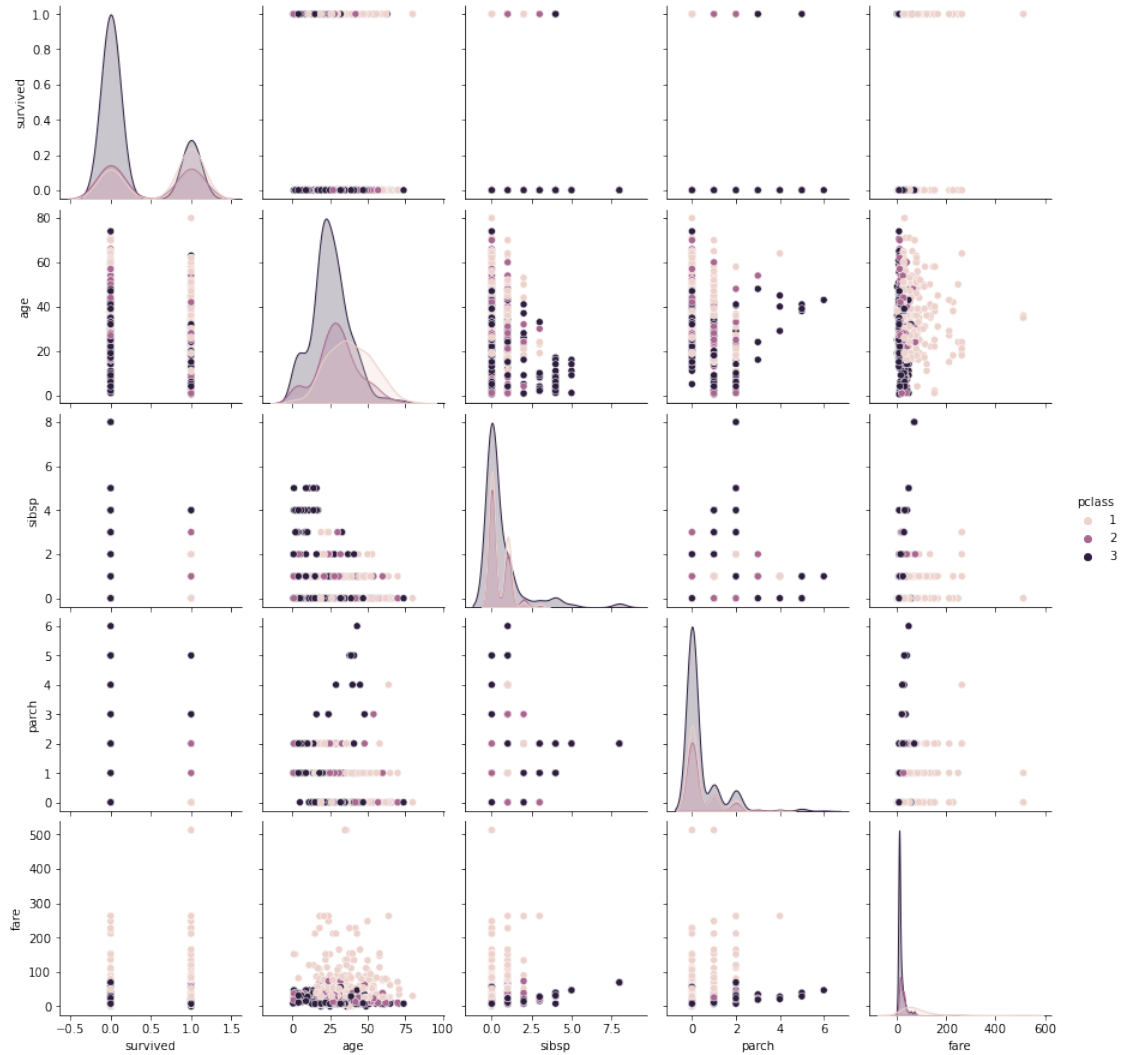
```
[25]: sns.  
      ↪ jointplot(x='tip',y='total_bill',data=tips,kind="kde",shade=True,cmap='YlGnBu')
```

```
[25]: <seaborn.axisgrid.JointGrid at 0x7fccc8313220>
```



```
[27]: sns.pairplot(titanic.select_dtypes(['number']), hue='pclass')
```

```
[27]: <seaborn.axisgrid.PairGrid at 0x7fccc8486460>
```



```
[28]: titanic.corr()
```

```
[28]:
```

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

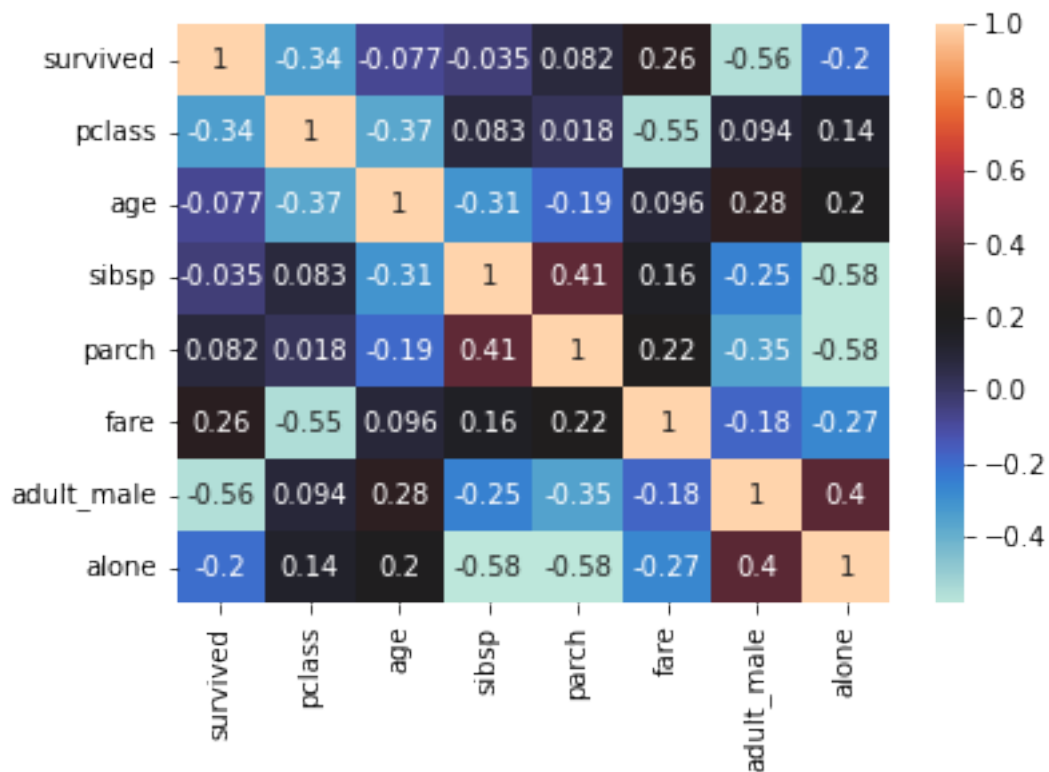

```

pclass      0.094035  0.135207
age         0.280328  0.198270
sibsp       -0.253586 -0.584471
parch       -0.349943 -0.583398
fare        -0.182024 -0.271832
adult_male   1.000000  0.404744
alone       0.404744  1.000000

```

```
[29]: sns.heatmap(titanic.corr(),annot=True,cmap="icefire")
```

```
[29]: <AxesSubplot:>
```



```
[31]: sns.clustermap(iris.drop("species",axis=1))
```

```
[31]: <seaborn.matrix.ClusterGrid at 0x7fccaaafb3fa0>
```

