```
In [1]: import seaborn as sns
In [2]: data=sns.load_dataset("tips")
In [3]: data
Out[3]:
```

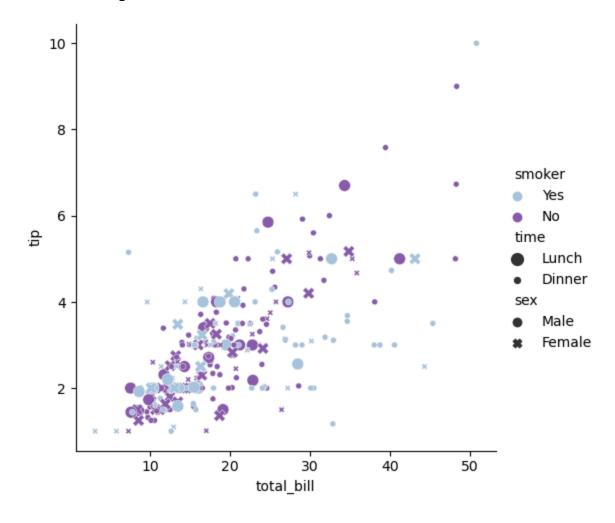
total_bill	tip	sex	smoker	day	time	size
16.99	1.01	Female	No	Sun	Dinner	2
10.34	1.66	Male	No	Sun	Dinner	3
21.01	3.50	Male	No	Sun	Dinner	3
23.68	3.31	Male	No	Sun	Dinner	2
24.59	3.61	Female	No	Sun	Dinner	4
29.03	5.92	Male	No	Sat	Dinner	3
27.18	2.00	Female	Yes	Sat	Dinner	2
22.67	2.00	Male	Yes	Sat	Dinner	2
17.82	1.75	Male	No	Sat	Dinner	2
18.78	3.00	Female	No	Thur	Dinner	2
	16.99 10.34 21.01 23.68 24.59  29.03 27.18 22.67 17.82	16.99 1.01 10.34 1.66 21.01 3.50 23.68 3.31 24.59 3.61  29.03 5.92 27.18 2.00 22.67 2.00 17.82 1.75	16.99 1.01 Female 10.34 1.66 Male 21.01 3.50 Male 23.68 3.31 Male 24.59 3.61 Female 29.03 5.92 Male 27.18 2.00 Female 22.67 2.00 Male 17.82 1.75 Male	16.99 1.01 Female No 10.34 1.66 Male No 21.01 3.50 Male No 23.68 3.31 Male No 24.59 3.61 Female No 29.03 5.92 Male No 27.18 2.00 Female Yes 22.67 2.00 Male Yes 17.82 1.75 Male No	16.99       1.01       Female       No       Sun         10.34       1.66       Male       No       Sun         21.01       3.50       Male       No       Sun         23.68       3.31       Male       No       Sun         24.59       3.61       Female       No       Sun                29.03       5.92       Male       No       Sat         27.18       2.00       Female       Yes       Sat         22.67       2.00       Male       Yes       Sat         17.82       1.75       Male       No       Sat	16.99         1.01         Female         No         Sun         Dinner           10.34         1.66         Male         No         Sun         Dinner           21.01         3.50         Male         No         Sun         Dinner           23.68         3.31         Male         No         Sun         Dinner           24.59         3.61         Female         No         Sun         Dinner                  29.03         5.92         Male         No         Sat         Dinner           27.18         2.00         Female         Yes         Sat         Dinner           22.67         2.00         Male         Yes         Sat         Dinner           17.82         1.75         Male         No         Sat         Dinner

244 rows × 7 columns

In [6]: sns.relplot(x="total\_bill",y="tip",hue="smoker",style="sex",size="time",data=data,palette="BuPu")

C:\Users\DELL\anaconda3\Lib\site-packages\seaborn\axisgrid.py:118: UserWarning: The figure layout has chang
ed to tight
 self.\_figure.tight\_layout(\*args, \*\*kwargs)

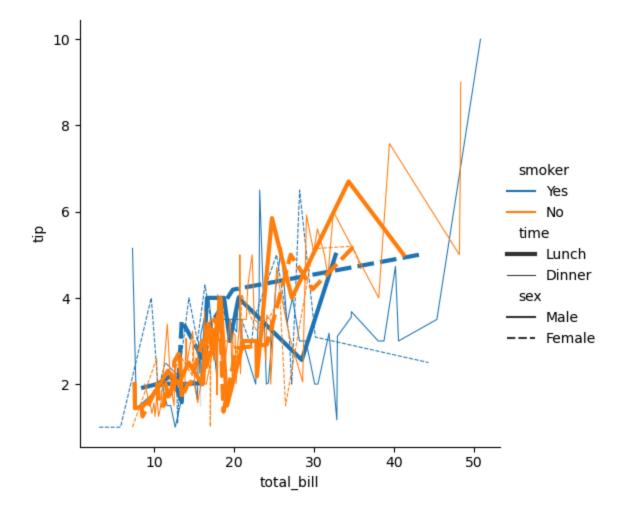
Out[6]: <seaborn.axisgrid.FacetGrid at 0x1ec3d48dd10>



In [7]: sns.relplot(x="total\_bill",y="tip",hue="smoker",style="sex",size="time",data=data,kind="line")

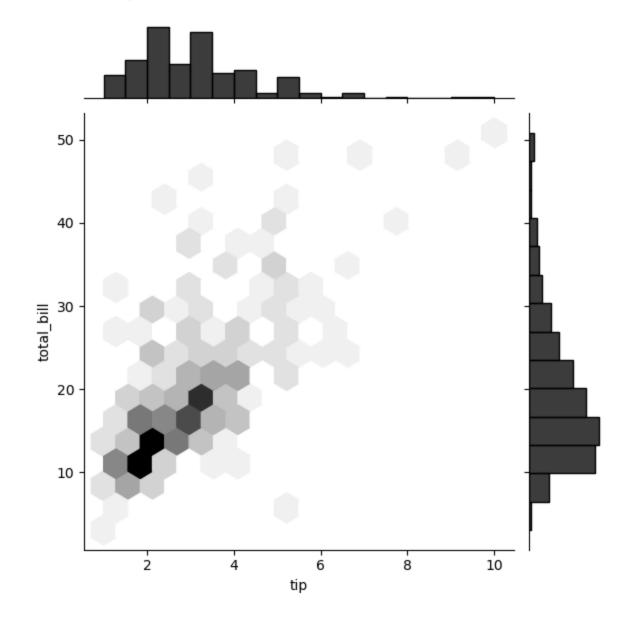
C:\Users\DELL\anaconda3\Lib\site-packages\seaborn\axisgrid.py:118: UserWarning: The figure layout has chang
ed to tight
 self.\_figure.tight\_layout(\*args, \*\*kwargs)

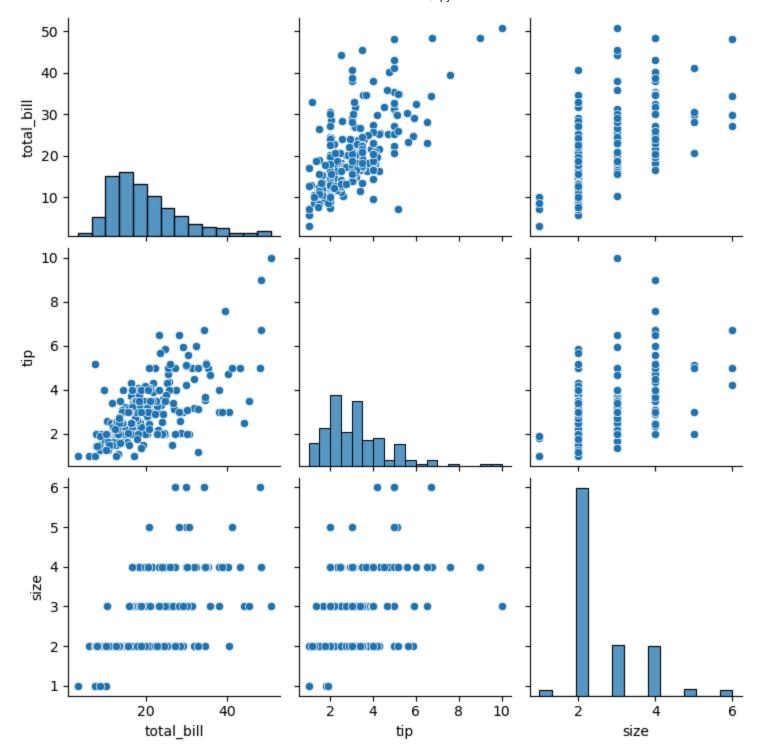
Out[7]: <seaborn.axisgrid.FacetGrid at 0x1ec3f8f15d0>



In [8]: sns.jointplot(x="tip",y="total\_bill",data=data,kind="hex",color="black")

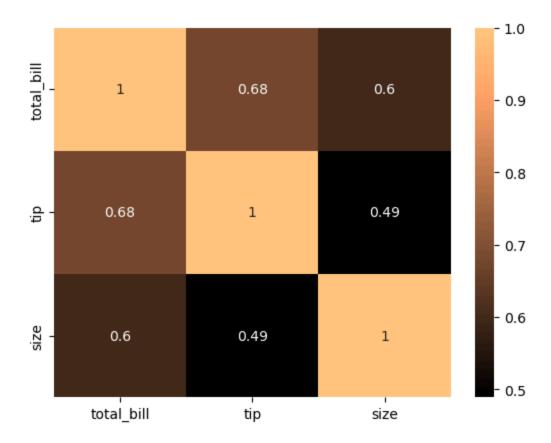
Out[8]: <seaborn.axisgrid.JointGrid at 0x1ec3f9b6350>





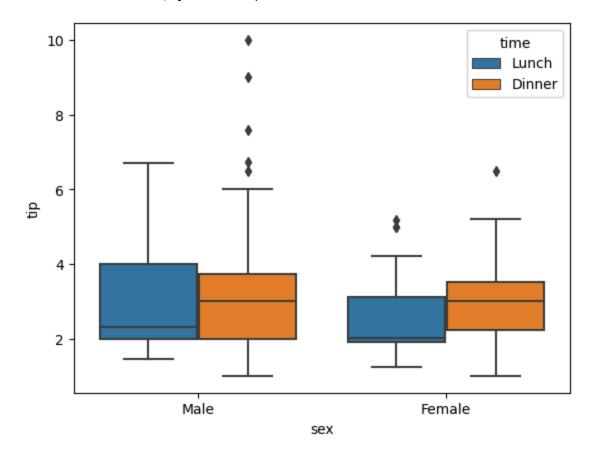
In [10]: sns.heatmap(data[["total\_bill","tip","size"]].corr(),annot=True,cmap="copper")

Out[10]: <Axes: >



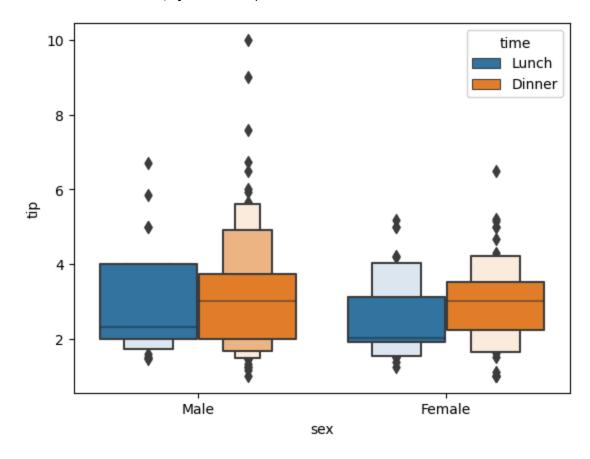
In [11]: sns.boxplot(x=data["sex"],y=data["tip"],hue=data["time"])

Out[11]: <Axes: xlabel='sex', ylabel='tip'>



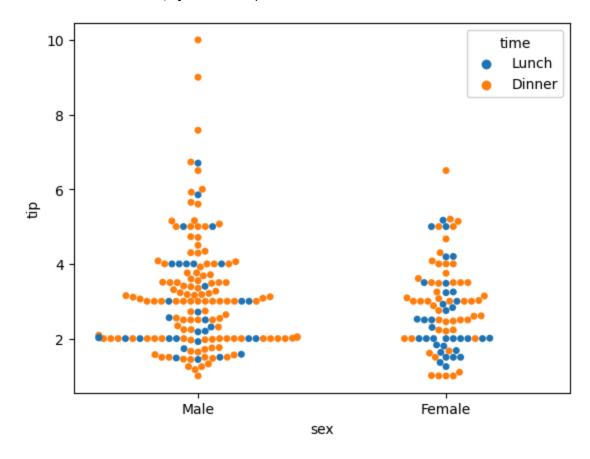
In [12]: sns.boxenplot(x=data["sex"],y=data["tip"],hue=data["time"])

Out[12]: <Axes: xlabel='sex', ylabel='tip'>



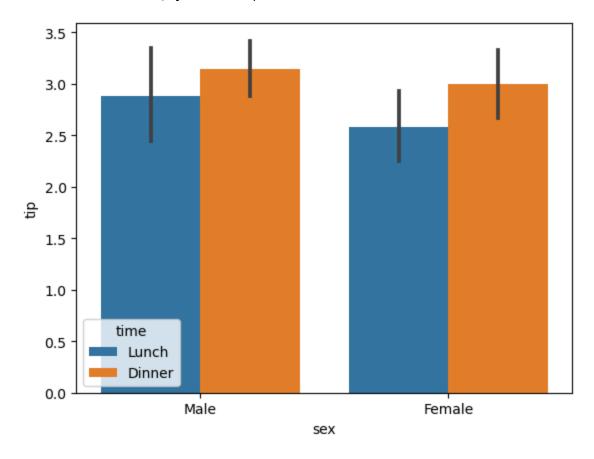
In [13]: sns.swarmplot(x=data["sex"],y=data["tip"],hue=data["time"])

Out[13]: <Axes: xlabel='sex', ylabel='tip'>



In [14]: sns.barplot(x=data["sex"],y=data["tip"],hue=data["time"])

Out[14]: <Axes: xlabel='sex', ylabel='tip'>



In [15]: data

Out[15]:

	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 × 7 columns

In [16]: import pandas as pd

In [ ]: