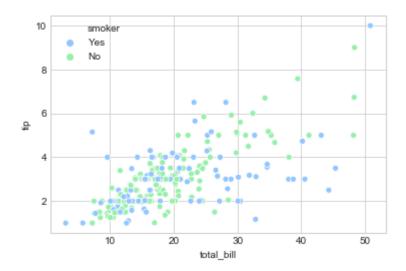
	total_bill	tip	sex	smoker	day	time	size	4
0	16.99	1.01	Female	No	Sun	Dinner	2	
1	10.34	1.66	Male	No	Sun	Dinner	3	
2	21.01	3.50	Male	No	Sun	Dinner	3	
3	23.68	3.31	Male	No	Sun	Dinner	2	
4	24.59	3.61	Female	No	Sun	Dinner	4	
5	25.29	4.71	Male	No	Sun	Dinner	4	
6	8.77	2.00	Male	No	Sun	Dinner	2	
7	26.88	3.12	Male	No	Sun	Dinner	4	
8	15.04	1.96	Male		Sun	Dinner	2	
9	14.78	3.23	Male		Sun	Dinner	2	
10	10.27		Male		Sun	Dinner	2	
11	35.26	5.00	Female	No	Sun	Dinner	4	
12	15.42	1.57	Male		Sun	Dinner	2	
13	18.43	3.00	Male	No	Sun	Dinner	4	
14	14.83	3.02	Female		Sun	Dinner	2	
15	21.58	3.92	Male	No	Sun	Dinner	2	
16	10.33	1.67	Female		Sun	Dinner	3	
17	16.29	3.71	Male		Sun	Dinner	3	
18	16.97		Female		Sun	Dinner	3	
19	20.65	3.35	Male	No	Sat	Dinner	3	
20	17.92	4.08	Male		Sat	Dinner	2	
21	20.29	2.75	Female	No	Sat	Dinner	2	
22	15.77	2.73	Female	No	Sat	Dinner	2	
23	39.42	7.58	Male	No	Sat	Dinner	4	
24	19.82					Dinner	2	
		3.18	Male		Sat		4	
25	17.81	2.34	Male		Sat	Dinner		
26	13.37		Male		Sat	Dinner	2	
27	12.69	2.00	Male	No	Sat	Dinner	2 2	
28	21.70		Male		Sat	Dinner		
29	19.65	3.00			Sat	Dinner	2	
	20.17		· · ·	· · ·	•••		• • •	
214	28.17		Female	Yes	Sat	Dinner	3	
215	12.90	1.10	Female		Sat	Dinner	2	
216			Male			Dinner	5	
217	11.59		Male		Sat		2	
218	7.74		Male		Sat	Dinner	2	
219	30.14		Female		Sat	Dinner	4	
220	12.16		Male		Fri	Lunch	2	
221	13.42				Fri	Lunch	2	
222	8.58	1.92	Male		Fri	Lunch	1	
223	15.98	3.00	Female		Fri	Lunch	3	
224	13.42	1.58	Male		Fri	Lunch	2	
225	16.27		Female		Fri	Lunch	2	
226	10.09	2.00	Female		Fri	Lunch	2	
227	20.45	3.00	Male		Sat	Dinner	4	
228	13.28	2.72	Male		Sat	Dinner	2	
229	22.12	2.88	Female		Sat	Dinner	2	
230	24.01	2.00	Male		Sat	Dinner	4	
231	15.69	3.00	Male		Sat	Dinner	3	
232	11.61		Male		Sat	Dinner	2	
233	10.77		Male		Sat		2	
234	15.53	3.00	Male	Yes	Sat	Dinner	2	

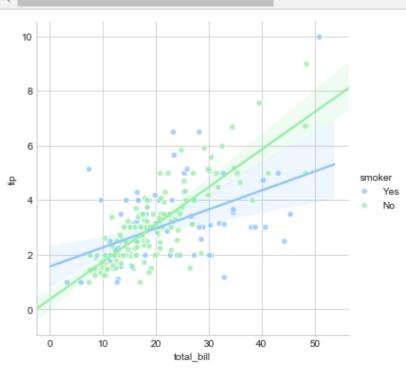
```
235
          10.07 1.25
                         Male
                                   No
                                        Sat
                                             Dinner
                                                         2
                                                         2
236
          12.60
                 1.00
                         Male
                                  Yes
                                        Sat
                                             Dinner
237
          32.83
                 1.17
                         Male
                                        Sat
                                             Dinner
                                                         2
                                  Yes
                                                         3
238
          35.83
                 4.67
                        Female
                                        Sat
                                             Dinner
                                   No
239
          29.03
                 5.92
                         Male
                                        Sat
                                             Dinner
                                                         3
                                   No
240
                                                         2
          27.18
                 2.00
                       Female
                                        Sat
                                             Dinner
                                  Yes
                                                         2
241
          22.67
                 2.00
                         Male
                                  Yes
                                        Sat
                                             Dinner
                                                         2
242
          17.82
                 1.75
                         Male
                                   No
                                        Sat
                                             Dinner
243
          18.78
                 3.00
                       Female
                                       Thur
                                             Dinner
                                                         2
                                   No
```

[244 rows x 7 columns]

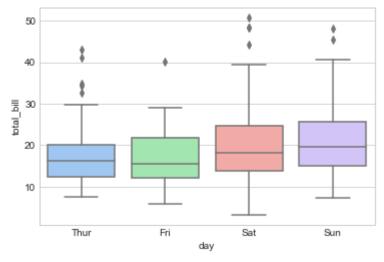
Out[8]: <matplotlib.axes._subplots.AxesSubplot at 0x23d98ff4ba8>



```
In [10]:  # regression plot
    # sns.regplot(x="total_bill", y="tip", data=tips, ci = False,scatter_kws={"cc" # Scatterplot with Seaborn
    # sns.lmplot(x='total_bill', y='tip', hue='smoker', data=tips, scatter_kws={
    # plt.show()
```

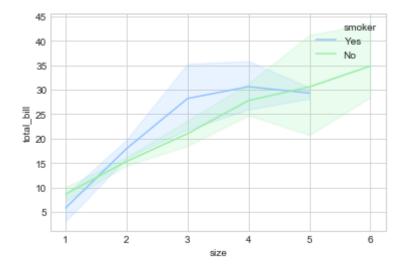


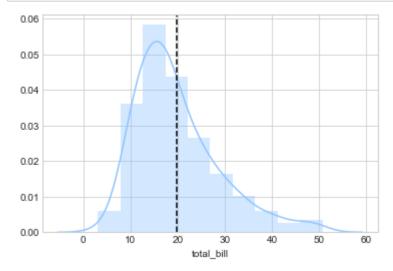




```
In [12]:  #line plots
sns.lineplot(x='size', y='total_bill', legend='full', data=tips , hue='smoker
```

Out[12]: <matplotlib.axes._subplots.AxesSubplot at 0x23d9a4cfe10>

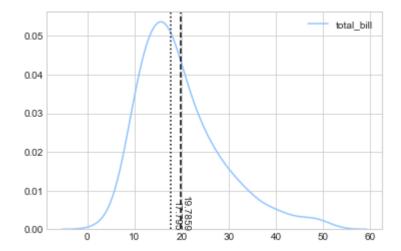




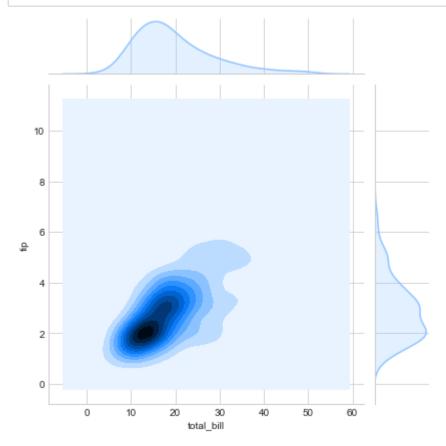
```
In [16]: In sns.kdeplot(tips['total_bill'])
plt.axvline(tips['total_bill'].mean(), color="k", linestyle="--",animated=Truplt.text(tips['total_bill'].mean(),0,np.round(tips['total_bill'].mean(),4),rd

plt.axvline(tips['total_bill'].median(), color="k", linestyle=":",animated=Truplt.text(tips['total_bill'].median(),0,np.round(tips['total_bill'].median(),4)
```

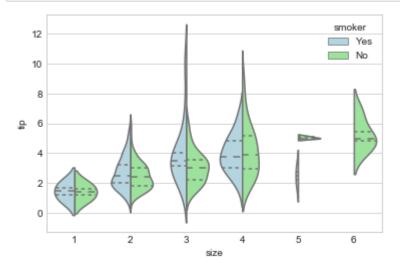
Out[16]: Text(17.795, 0, '17.795')



```
In [17]:  #density plots
#with sns.axes_style('white'):
sns.jointplot("total_bill", "tip", tips, kind='kde');
```

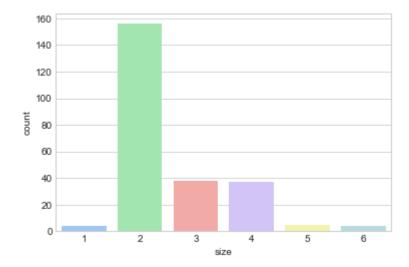


In [18]: #violenplots
sns.violinplot("size", "tip", hue="smoker",data=tips,palette=["lightblue", "]



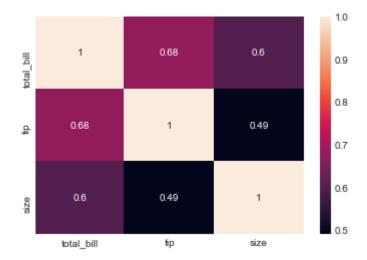
In [19]: #count plots
sns.countplot(tips['size'])

Out[19]: <matplotlib.axes._subplots.AxesSubplot at 0x23d9a46d2e8>



In [20]: #finding corelation using heatmaps
sns.heatmap(tips.corr(), annot=True)

Out[20]: <matplotlib.axes._subplots.AxesSubplot at 0x23d9a5f76a0>



Out[21]: <seaborn.axisgrid.PairGrid at 0x23d9a4a8240>

