

```
import seaborn as sns
import matplotlib.pyplot as plt
import numpy as np
import pandas as pd
data=sns.load_dataset('tips')
data.head()
```

	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

```
data.columns
```

```
Index(['total_bill', 'tip', 'sex', 'smoker', 'day', 'time', 'size'],
      dtype='object')
```

```
xyz= data[['total_bill','tip','size']]
```

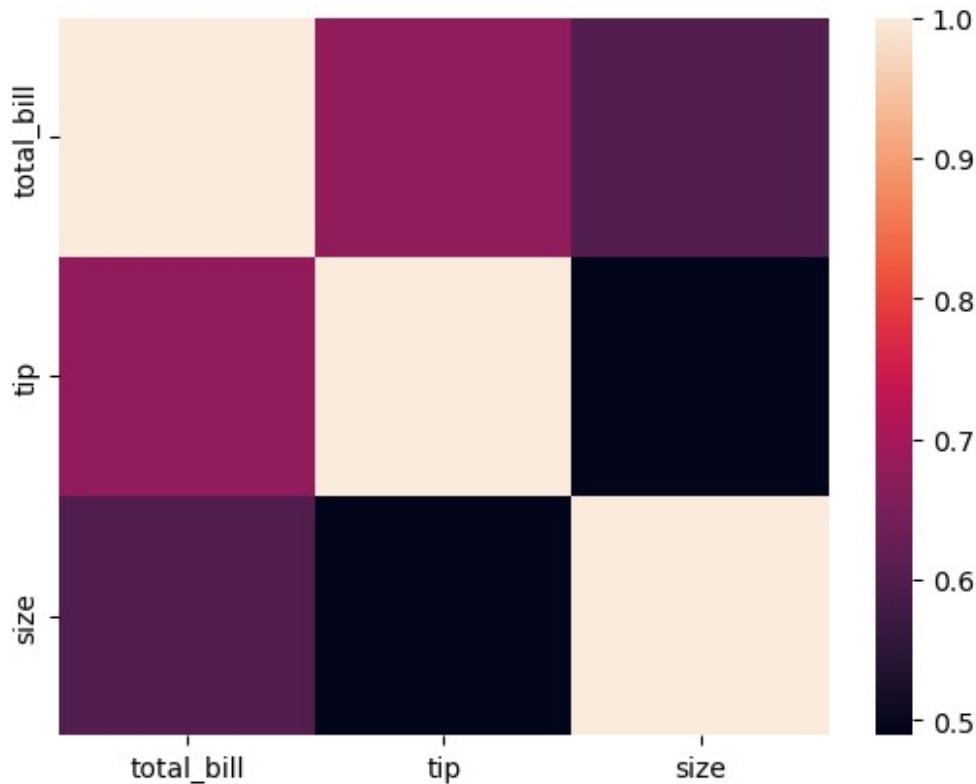
```
xyz.corr
```

	total_bill	tip	size
0	16.99	1.01	2
1	10.34	1.66	3
2	21.01	3.50	3
3	23.68	3.31	2
4	24.59	3.61	4
...
239	29.03	5.92	3
240	27.18	2.00	2
241	22.67	2.00	2
242	17.82	1.75	2
243	18.78	3.00	2

```
[244 rows x 3 columns]>
```

```
sns.heatmap(xyz.corr())
```

```
<Axes: >
```



```
sns.distplot(x= data['tip'],bins = 10)
```

C:\Users\91997\AppData\Local\Temp\ipykernel_50604\1134608319.py:1:
UserWarning:

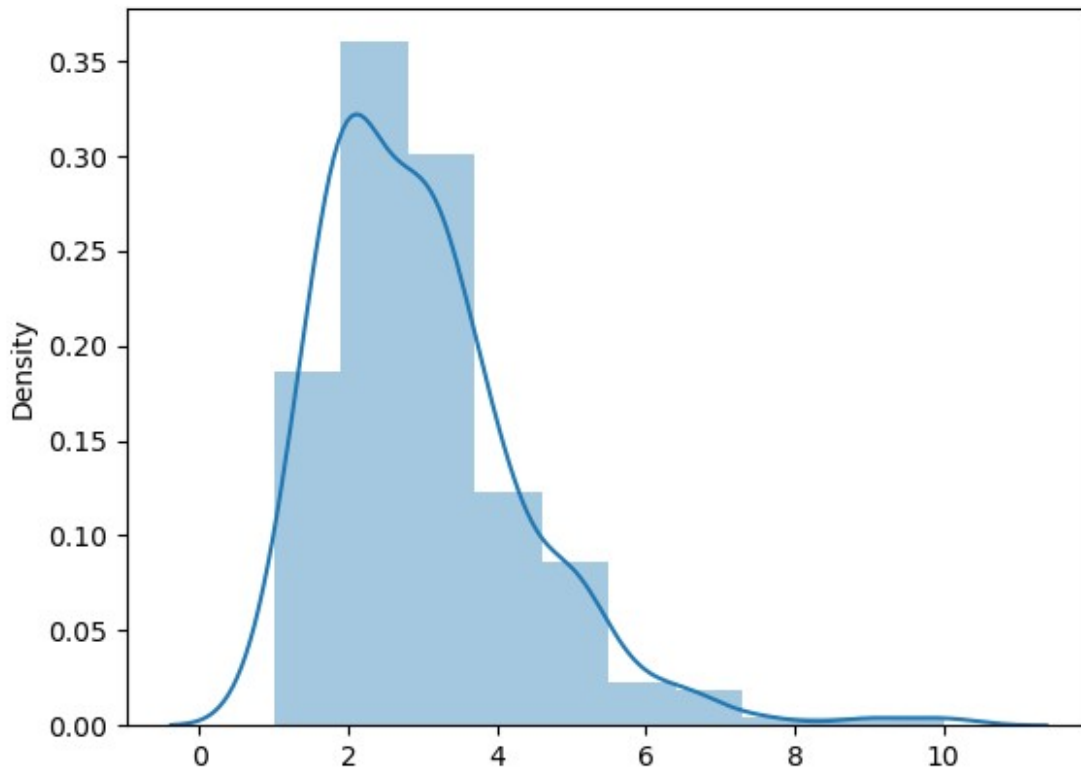
`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see <https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751>

```
sns.distplot(x= data['tip'],bins = 10)
```

<Axes: ylabel='Density'>



```
sns.distplot(data['tip'],bins = 10,kde=False)
```

C:\Users\91997\AppData\Local\Temp\ipykernel_50604\1646273659.py:1:
UserWarning:

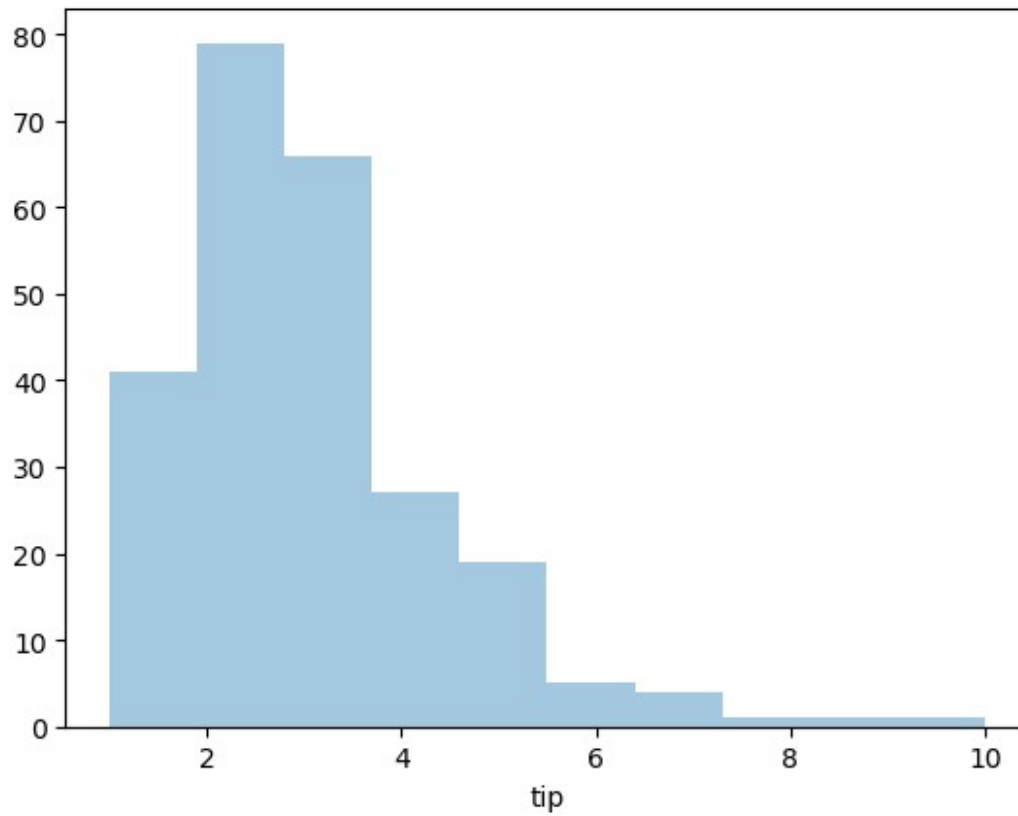
`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see <https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751>

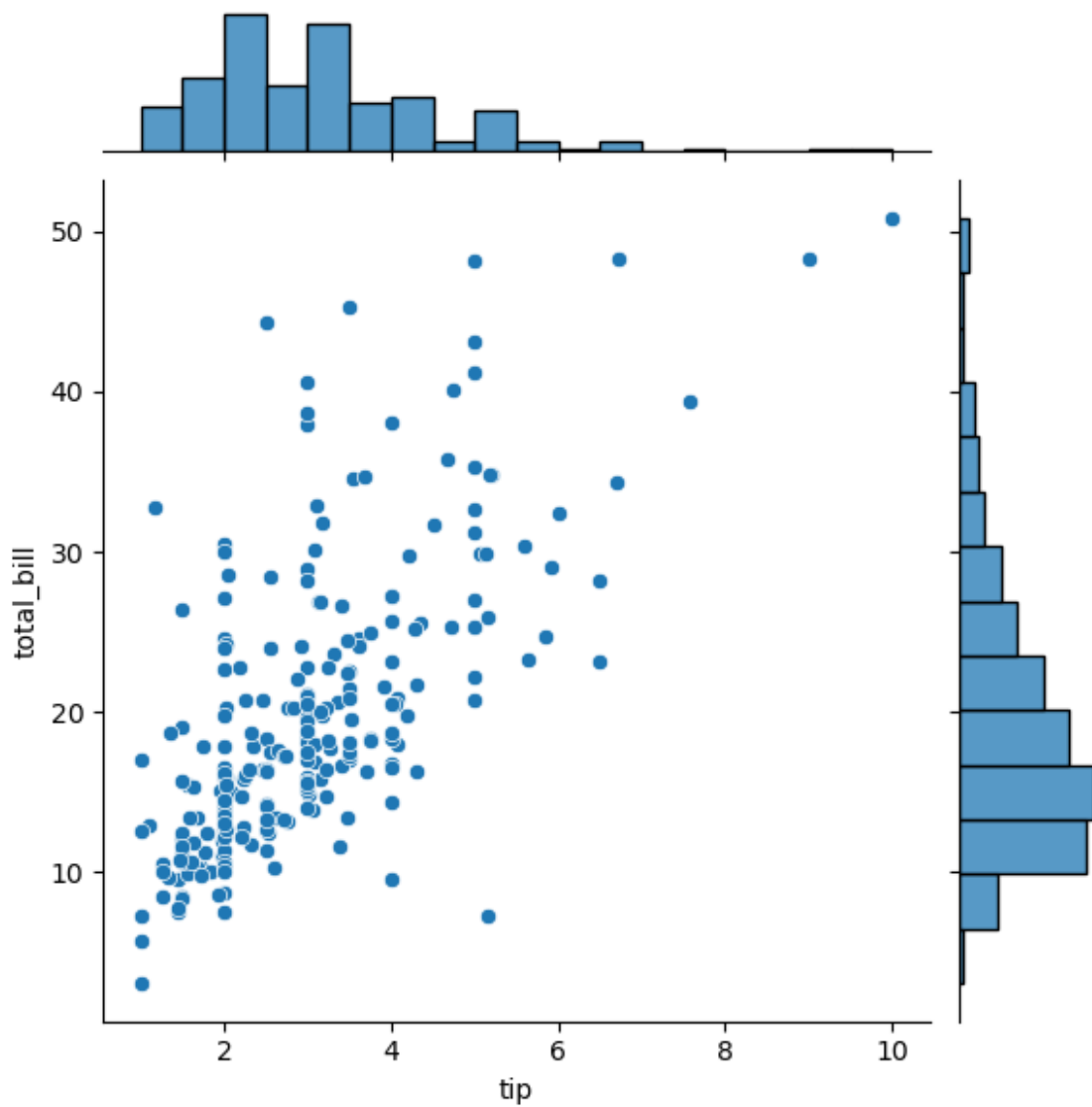
```
sns.distplot(data['tip'],bins = 10,kde=False)
```

<Axes: xlabel='tip'>

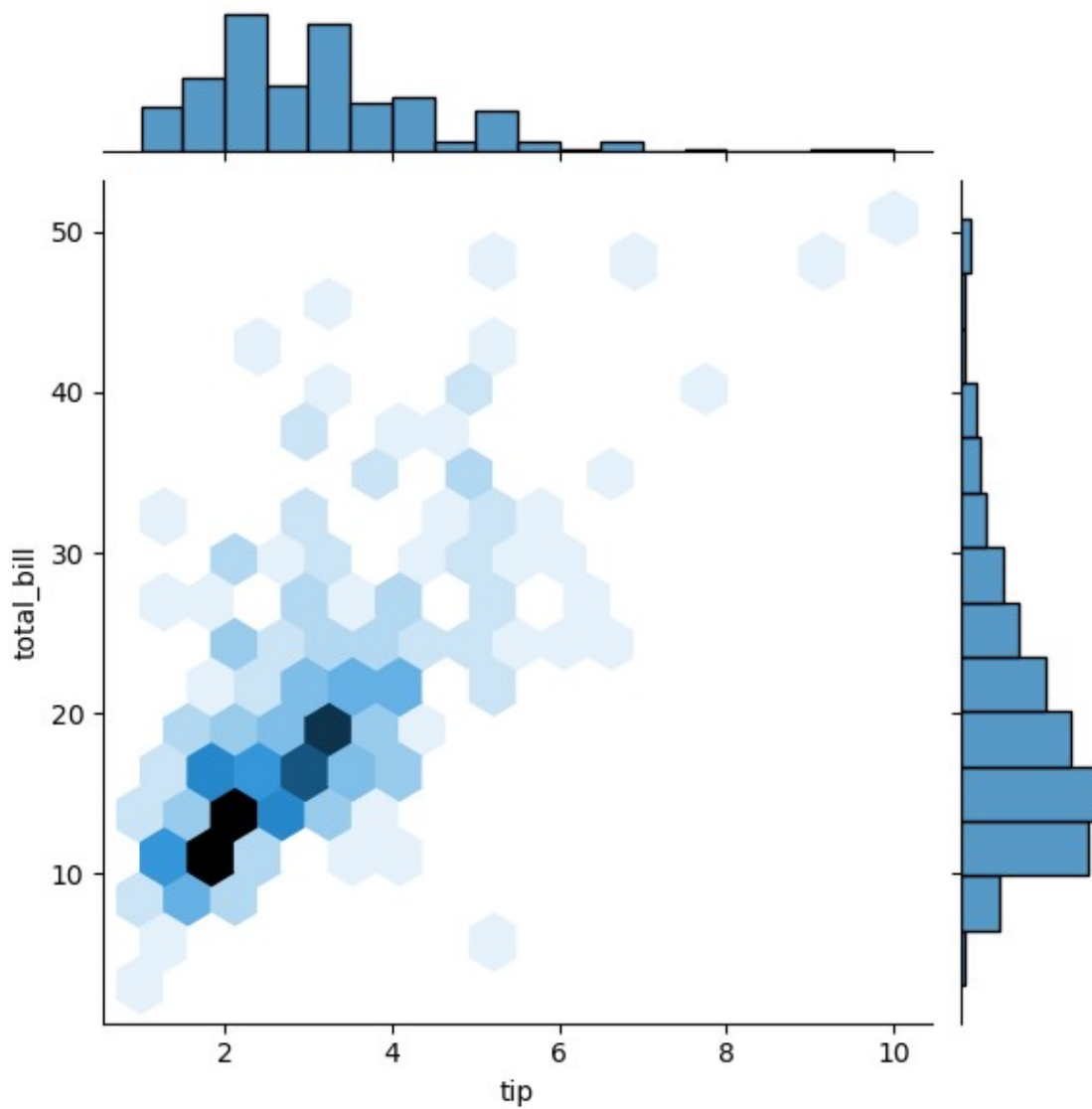


```
sns.jointplot(x = data['tip'], y = data['total_bill'], kind =  
'scatter')
```

```
<seaborn.axisgrid.JointGrid at 0x1fe8c555890>
```



```
sns.jointplot(x = data['tip'], y = data['total_bill'], kind = 'hex')  
<seaborn.axisgrid.JointGrid at 0x1fe8ccd6250>
```



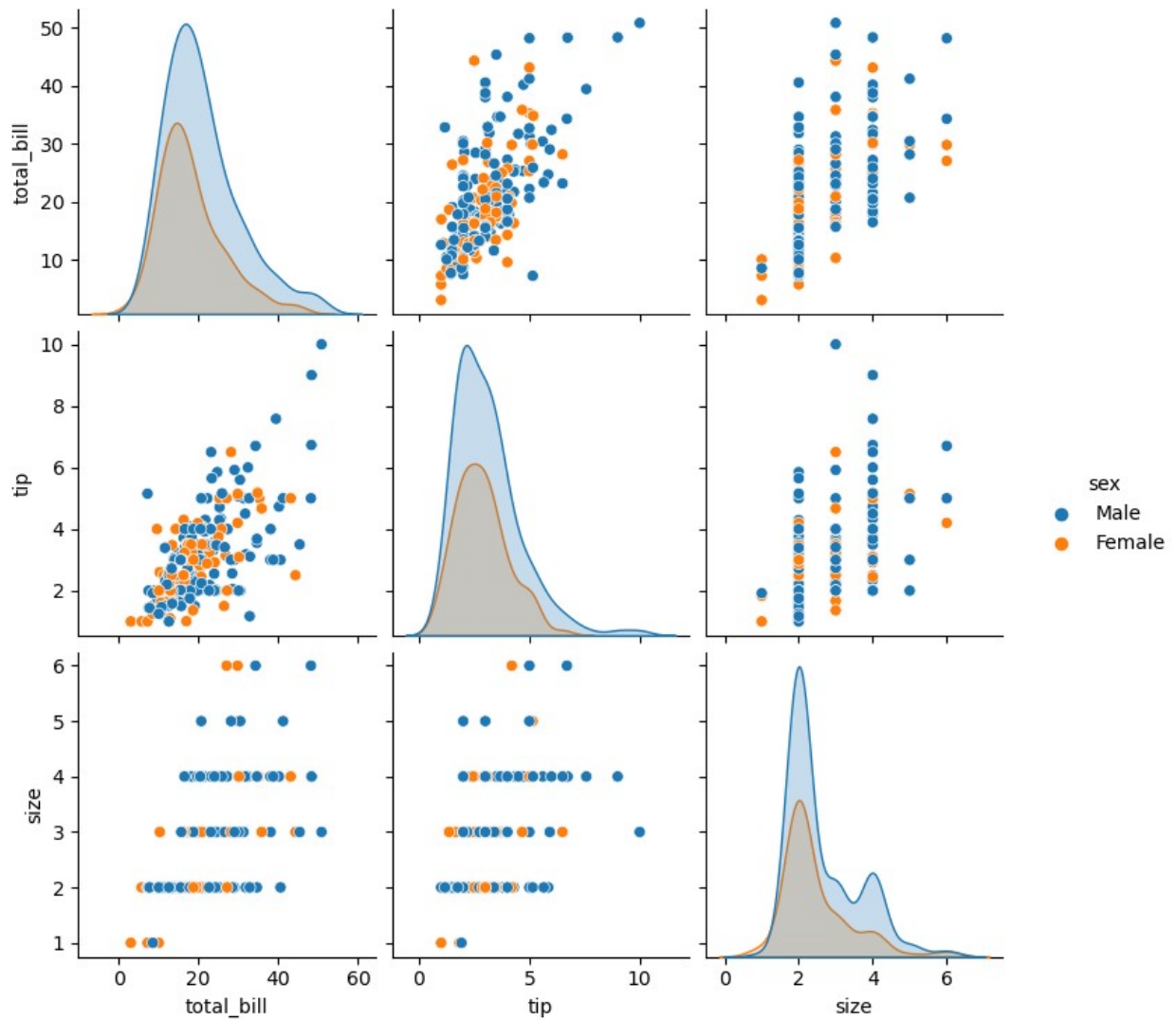
```
sns.pairplot(data, hue='sex')
```

```
C:\ProgramData\anaconda3\Lib\site-packages\seaborn\axisgrid.py:118:
```

```
UserWarning: The figure layout has changed to tight
```

```
    self._figure.tight_layout(*args, **kwargs)
```

```
<seaborn.axisgrid.PairGrid at 0x1fe8ce7eb50>
```



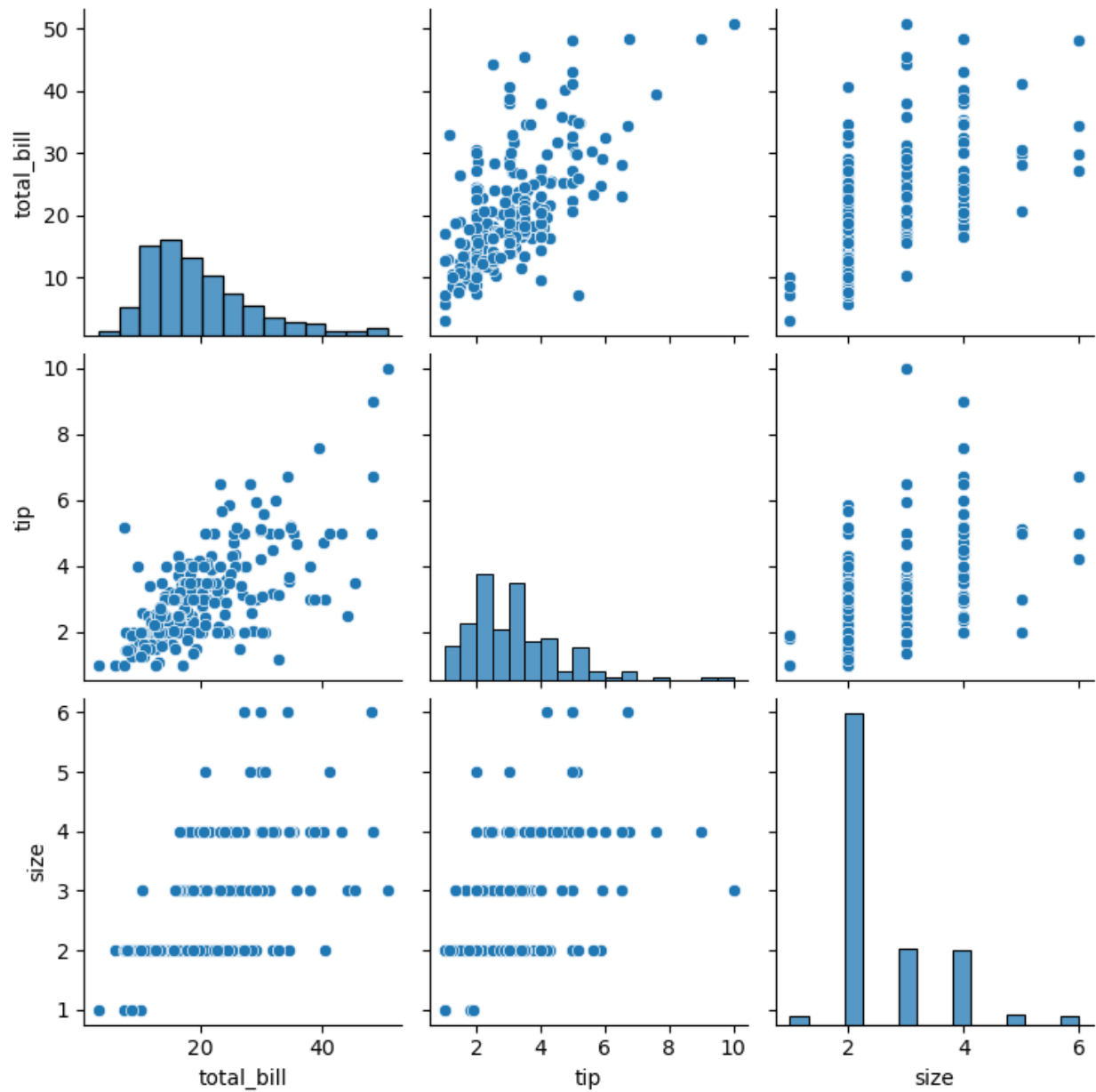
```
sns.pairplot(data)
```

C:\ProgramData\anaconda3\Lib\site-packages\seaborn\axisgrid.py:118:

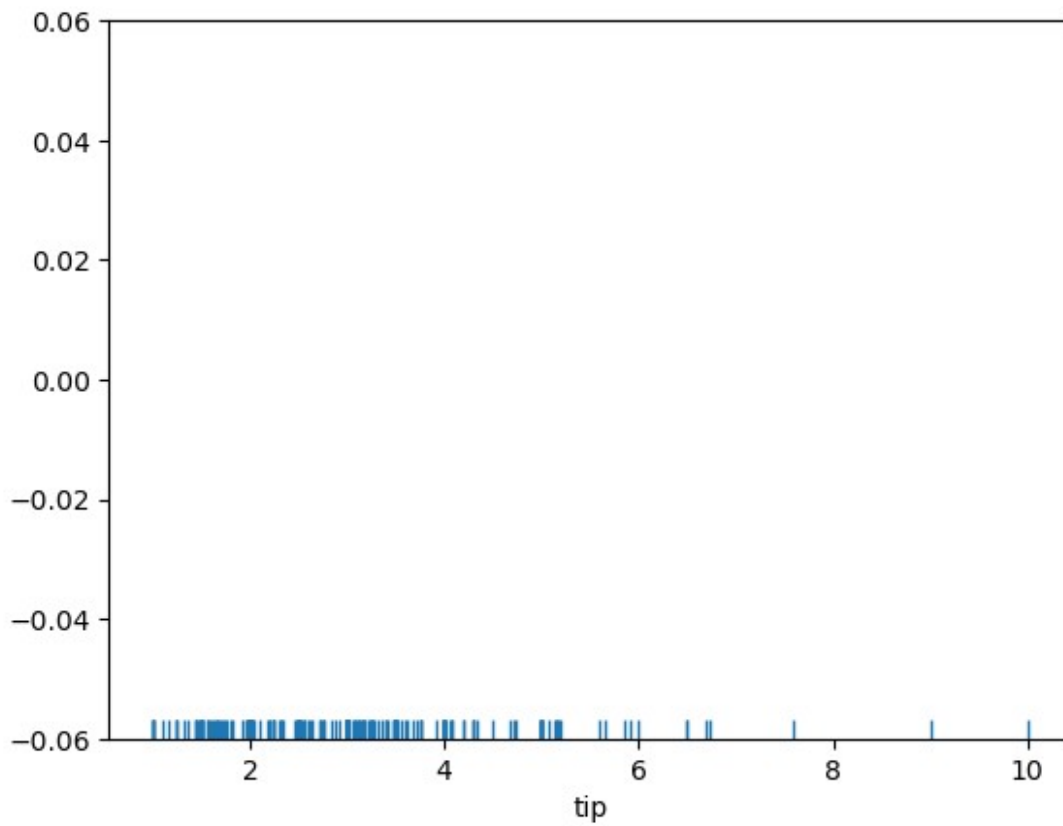
UserWarning: The figure layout has changed to tight

```
self._figure.tight_layout(*args, **kwargs)
```

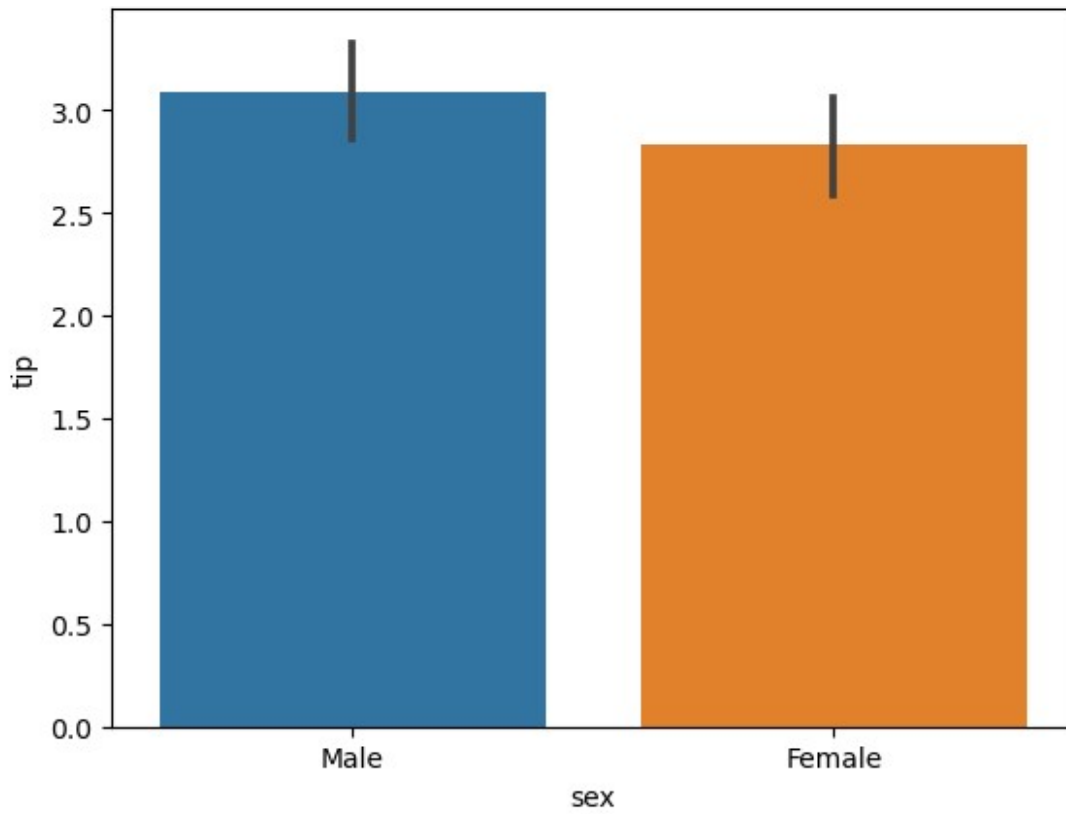
```
<seaborn.axisgrid.PairGrid at 0x1fe8da6b1d0>
```



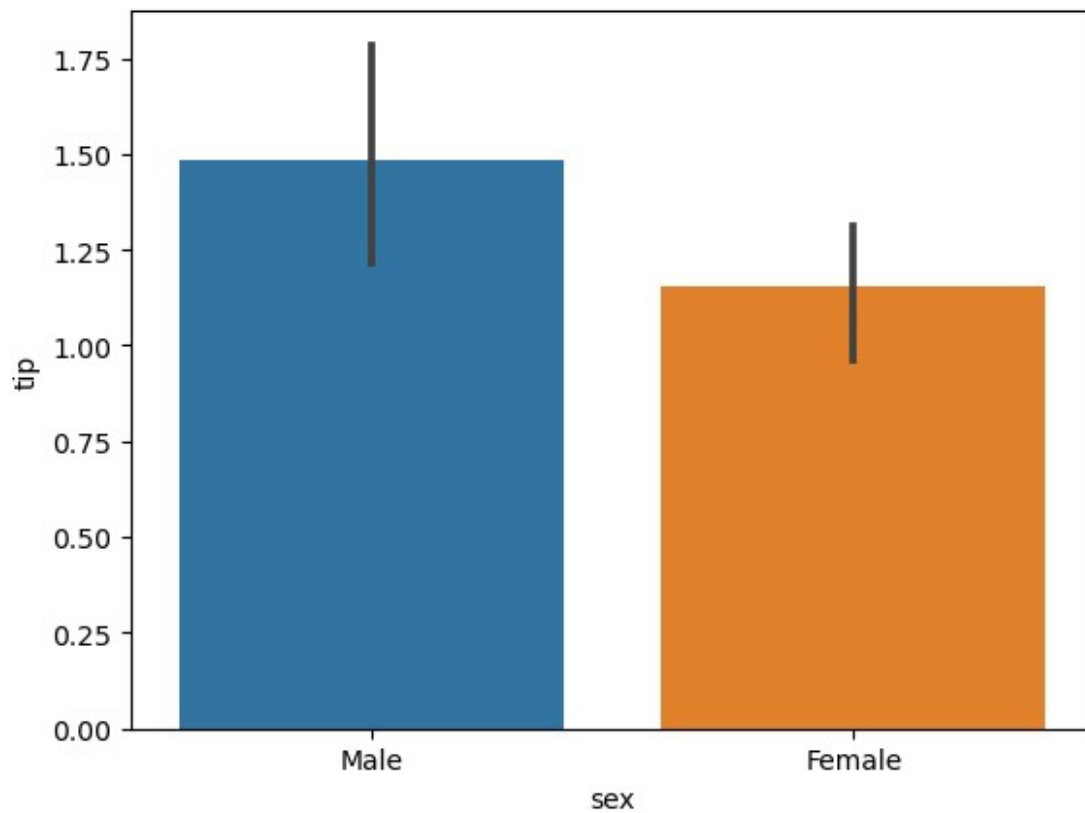
```
sns.rugplot(data['tip'])
<Axes: xlabel='tip'>
```

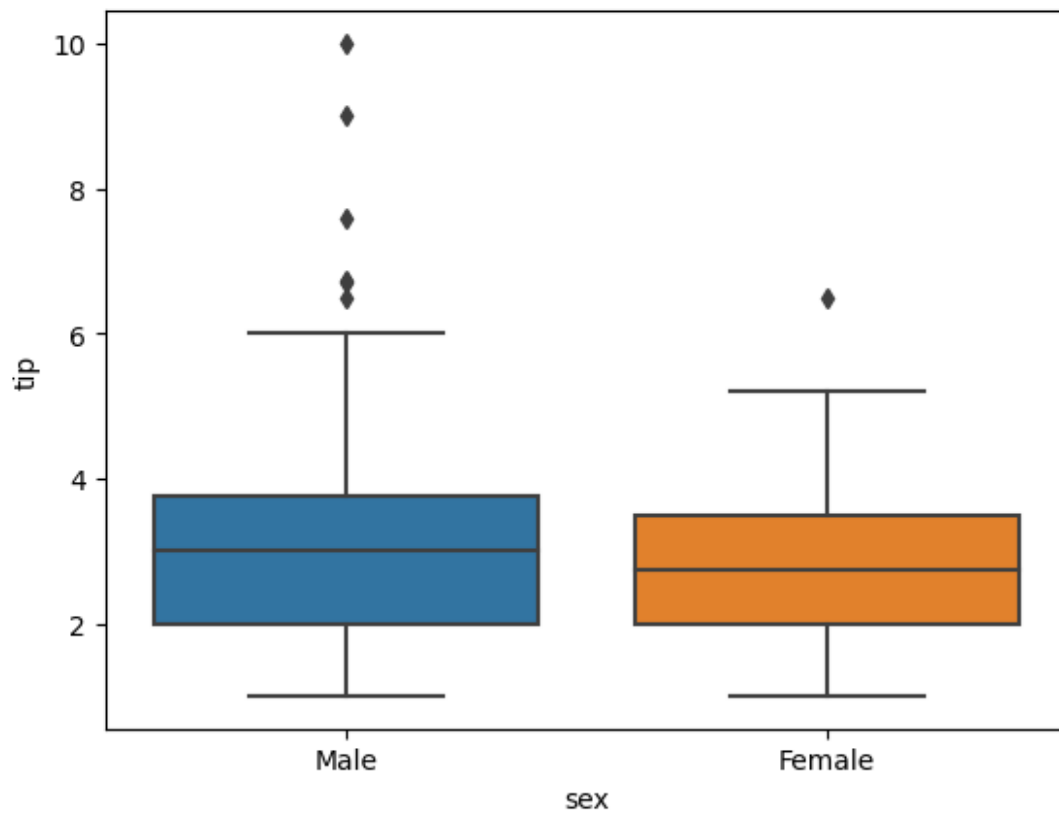
```
sns.barplot(x = 'sex', y= 'tip', data=data)  
<Axes: xlabel='sex', ylabel='tip'>
```



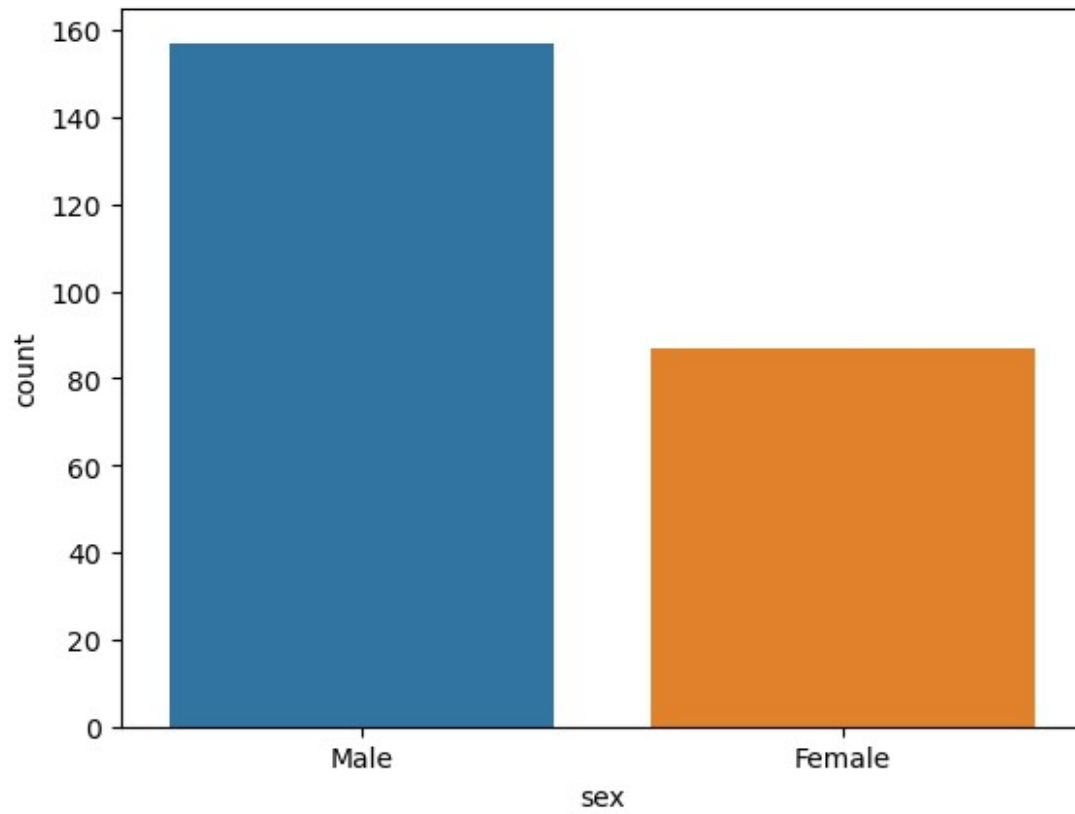
```
sns.barplot(x='sex', y='tip', data=data, estimator=np.std)  
<Axes: xlabel='sex', ylabel='tip'>
```



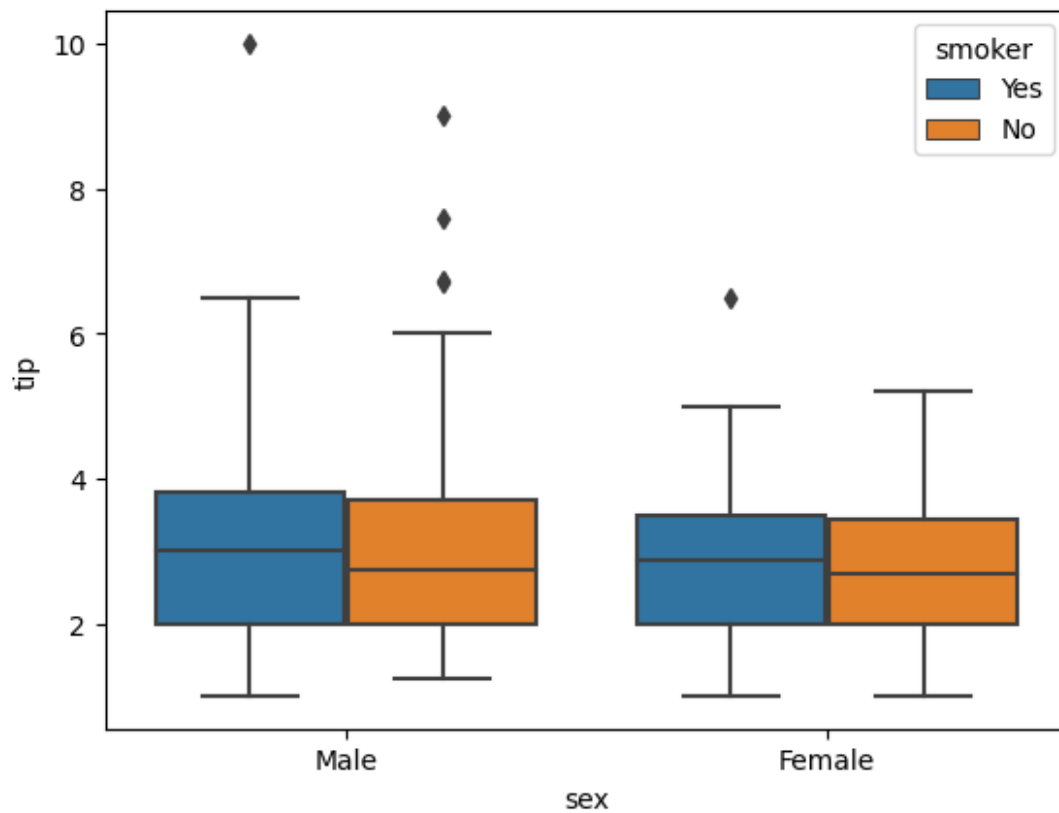
```
sns.boxplot(x='sex', y='tip', data=data)  
<Axes: xlabel='sex', ylabel='tip'>
```



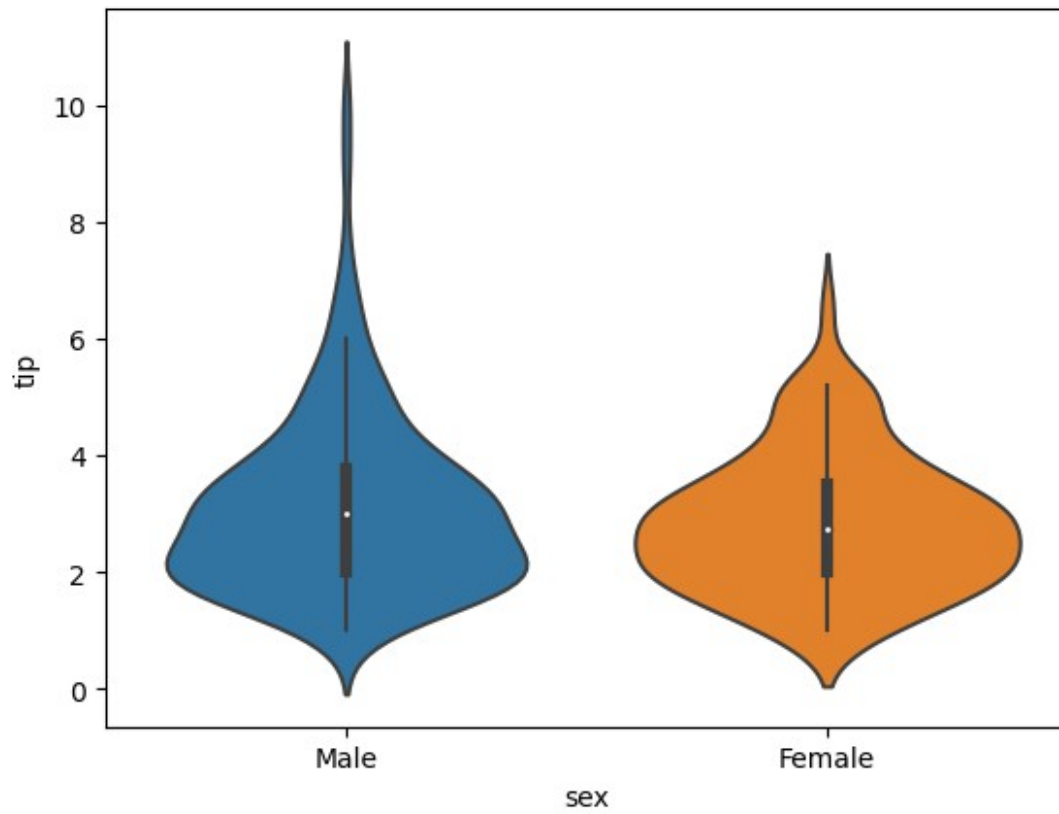
```
sns.countplot(x='sex',data=data)  
<Axes: xlabel='sex', ylabel='count'>
```



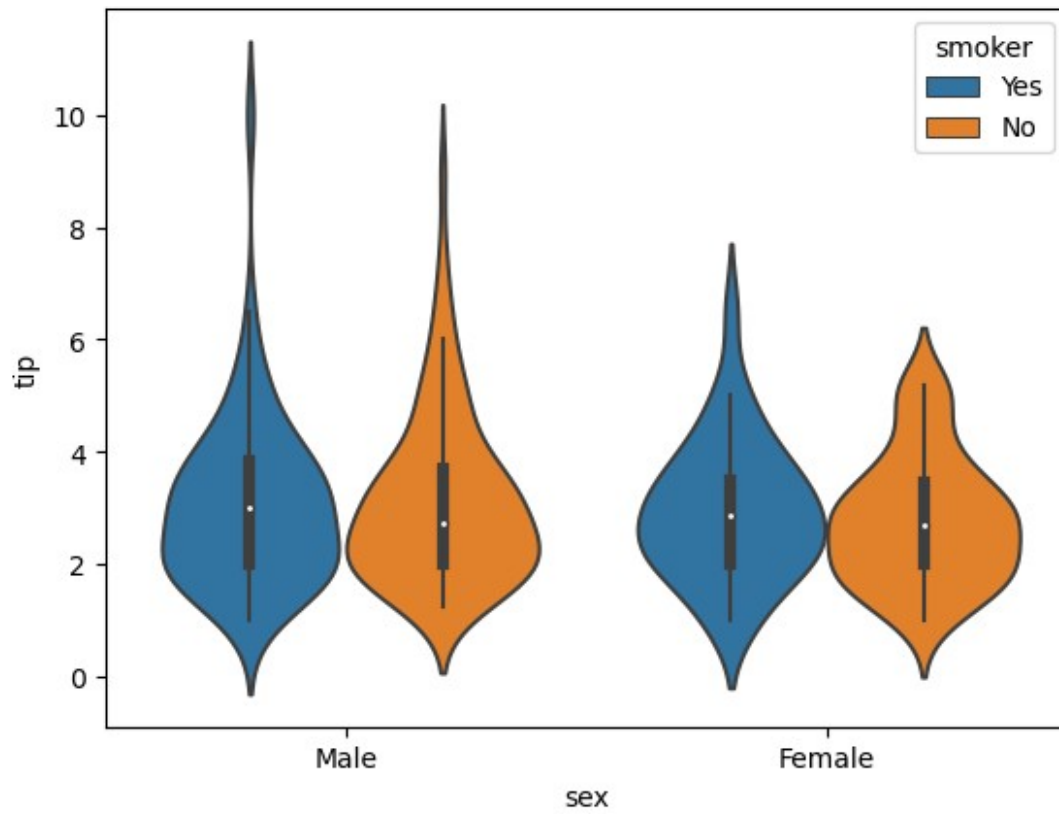
```
sns.boxplot(x='sex', y='tip', data=data, hue="smoker")  
<Axes: xlabel='sex', ylabel='tip'>
```



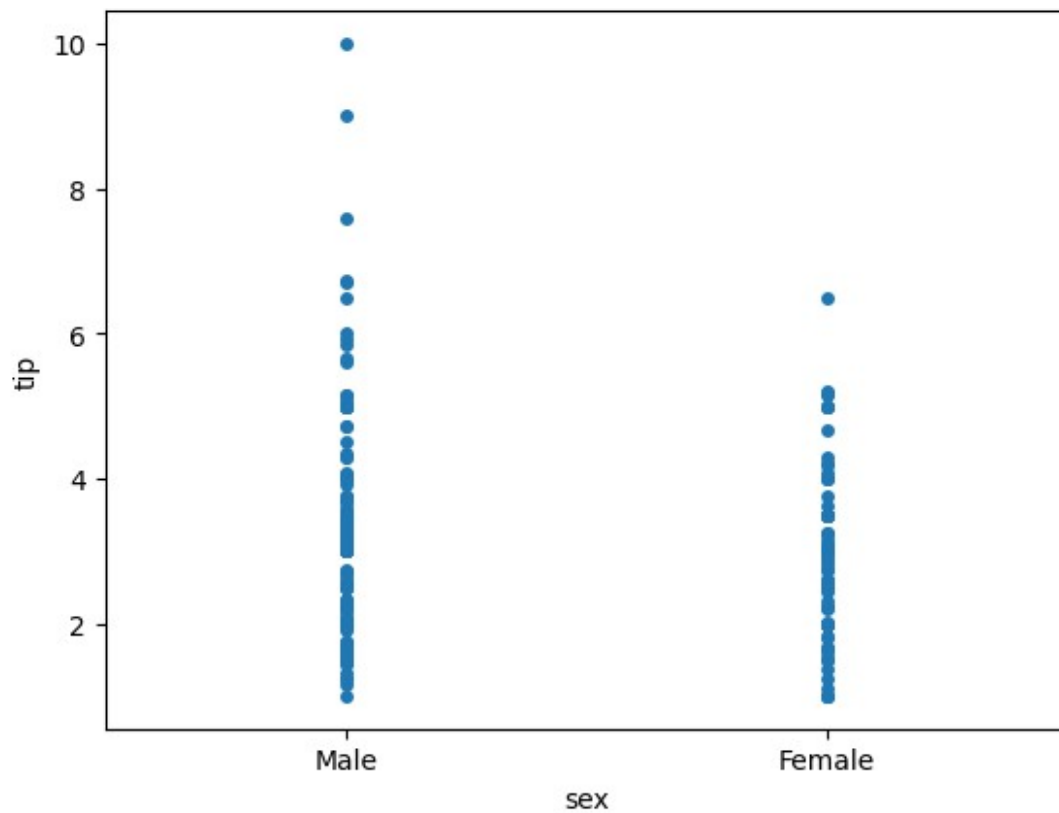
```
sns.violinplot(x='sex', y='tip',data=data)  
<Axes: xlabel='sex', ylabel='tip'>
```



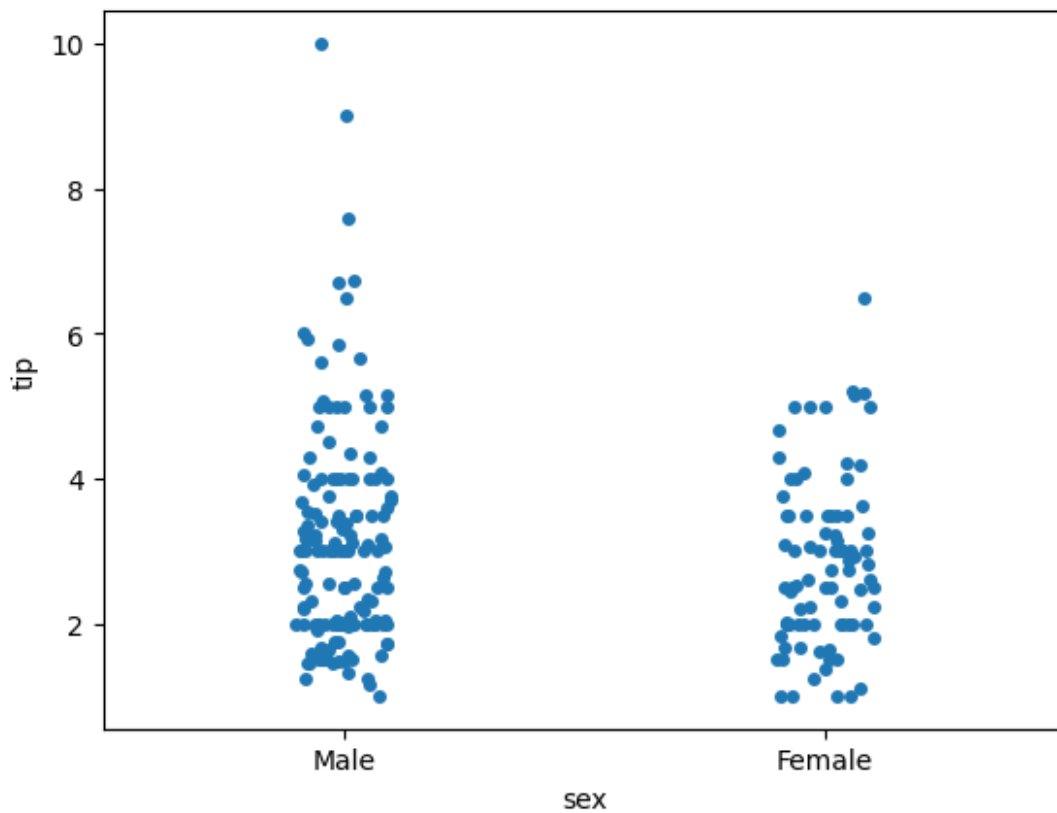
```
sns.violinplot(x= 'sex', y='tip', data=data, hue='smoker')  
<Axes: xlabel='sex', ylabel='tip'>
```



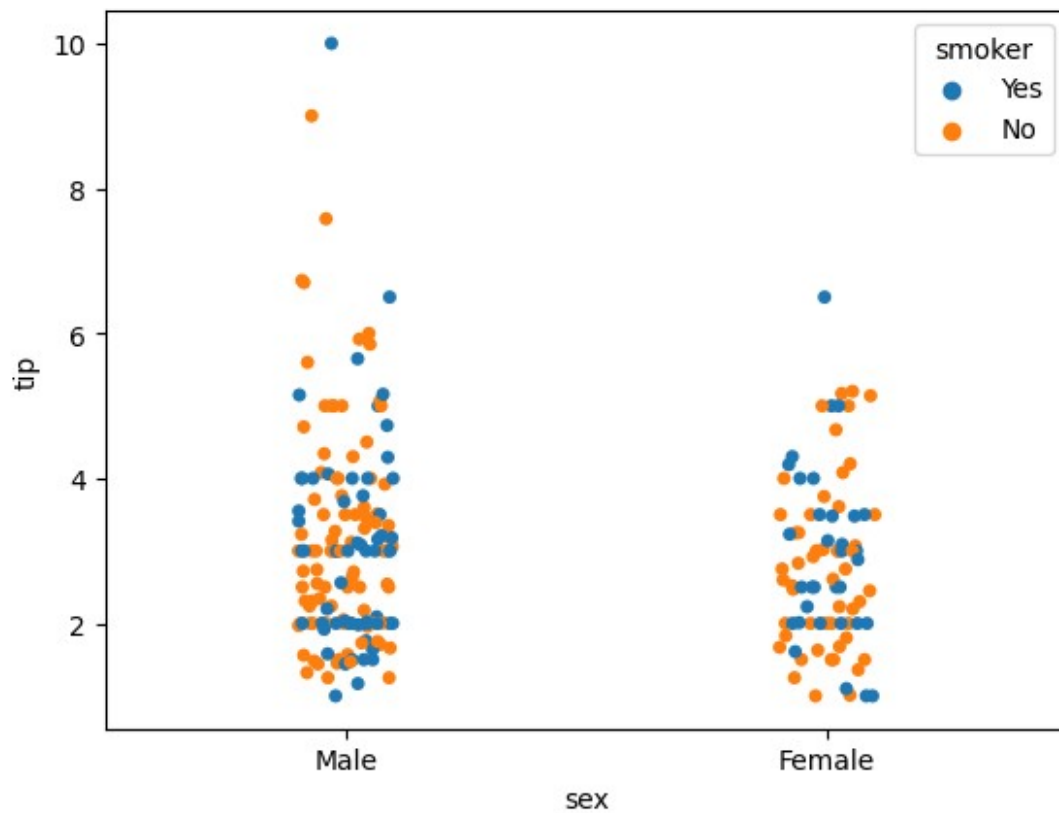
```
sns.stripplot(x= 'sex', y='tip', data=data, jitter=False)  
<Axes: xlabel='sex', ylabel='tip'>
```

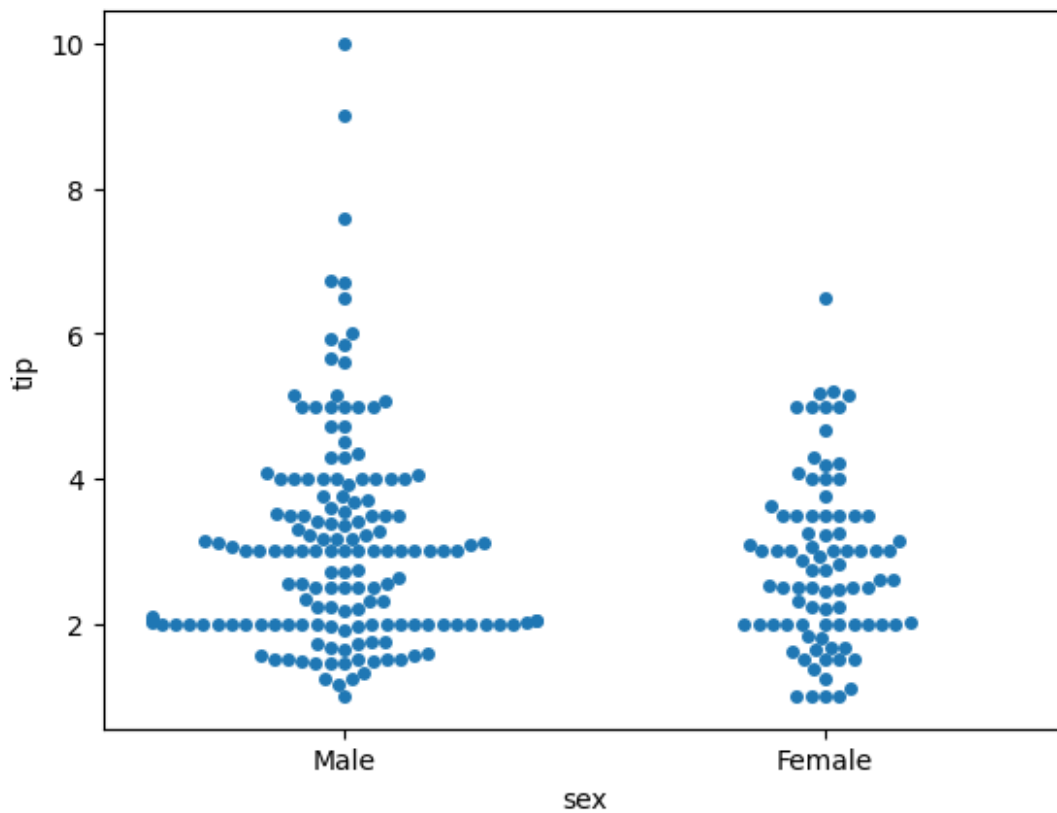
```
sns.stripplot(x='sex', y='tip', data=data, jitter=True)  
<Axes: xlabel='sex', ylabel='tip'>
```



```
sns.stripplot(x='sex', y= 'tip', data=data, jitter=True, hue='smoker')  
<Axes: xlabel='sex', ylabel='tip'>
```



```
sns.swarmplot(x='sex', y='tip', data=data)  
<Axes: xlabel='sex', ylabel='tip'>
```



```
sns.swarmplot(x='sex', y='tip', data=data, hue='smoker')  
<Axes: xlabel='sex', ylabel='tip'>
```

