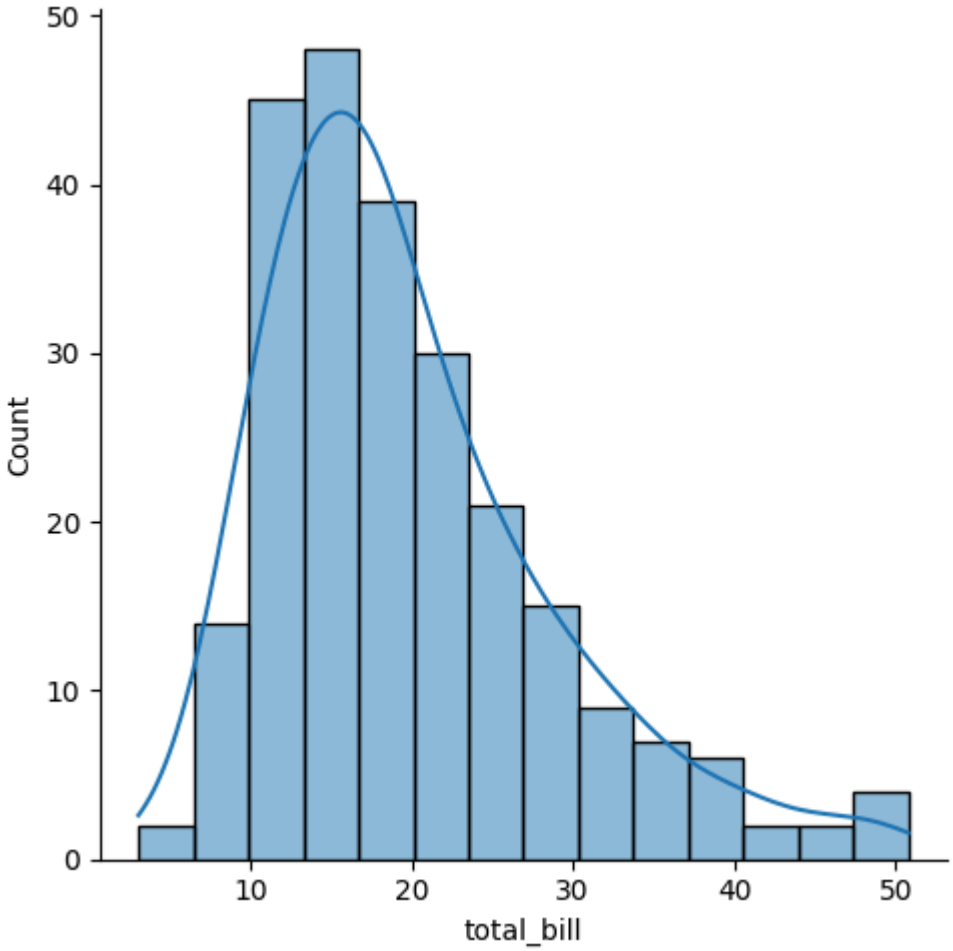
```
import seaborn as sns
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
%matplotlib inline

tips = sns.load_dataset('tips')
tips.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 |

Next steps: Generate code with `tips` New interactive sheet

```
sns.displot(tips.total_bill, kde=True)
```

```
<seaborn.axisgrid.FacetGrid at 0x790ac219a3f0>
```

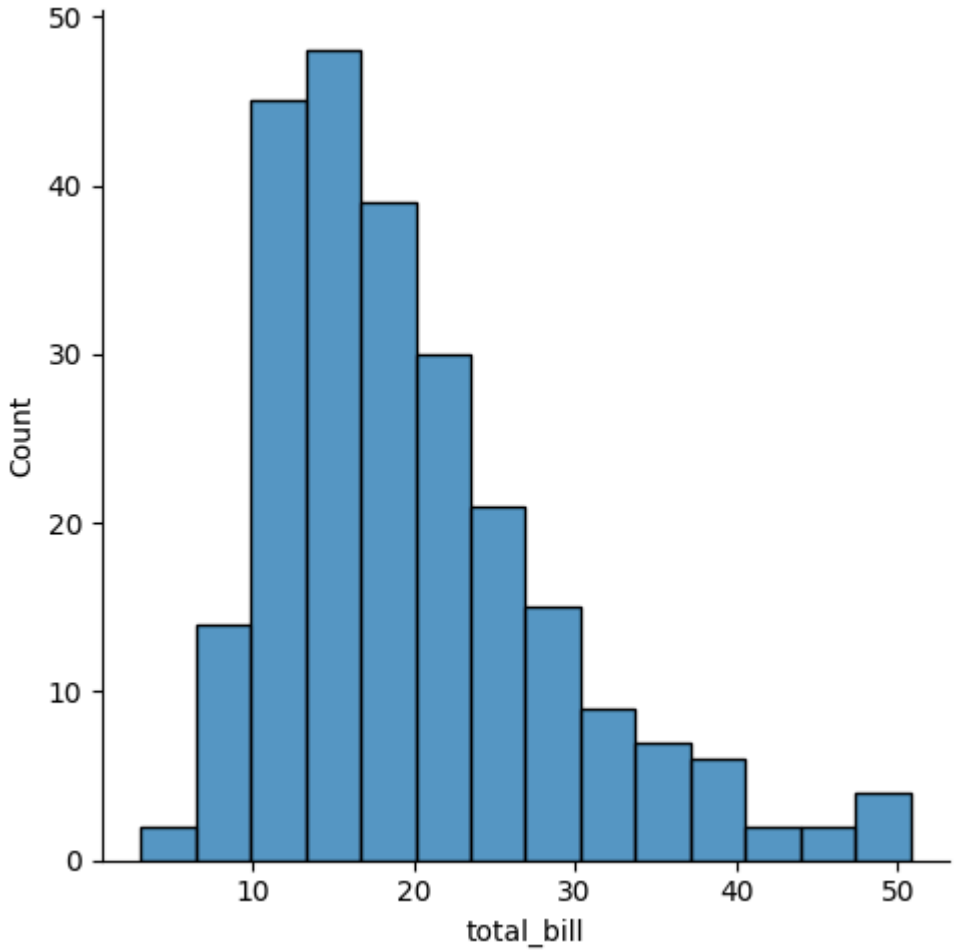



```
sns.displot(tips.total_bill, kde=False)
```

```
<seaborn.axisgrid.FacetGrid at 0x790ae630e000>
```

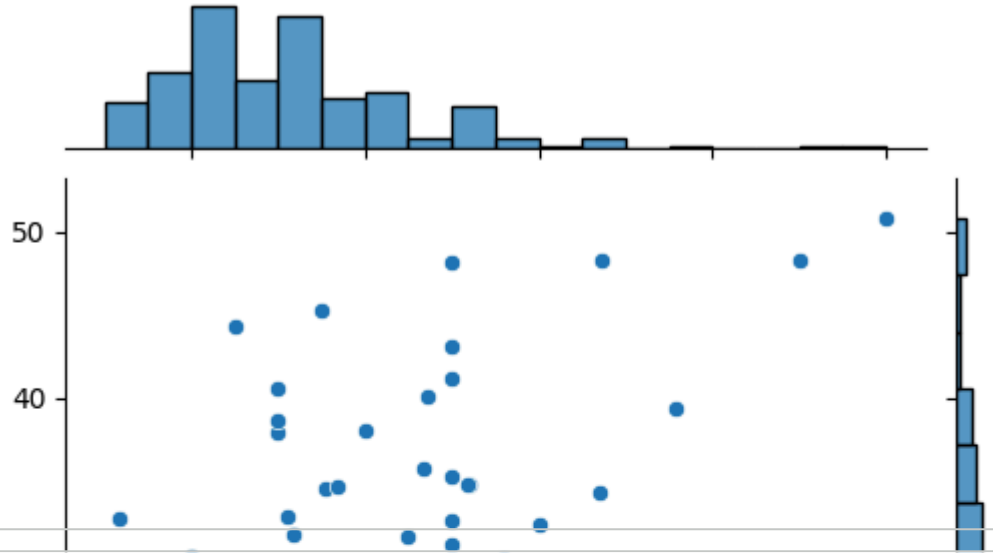

```
sns.displot(tips.total_bill, kde=False)
```

```
<seaborn.axisgrid.FacetGrid at 0x790ae6315160>
```



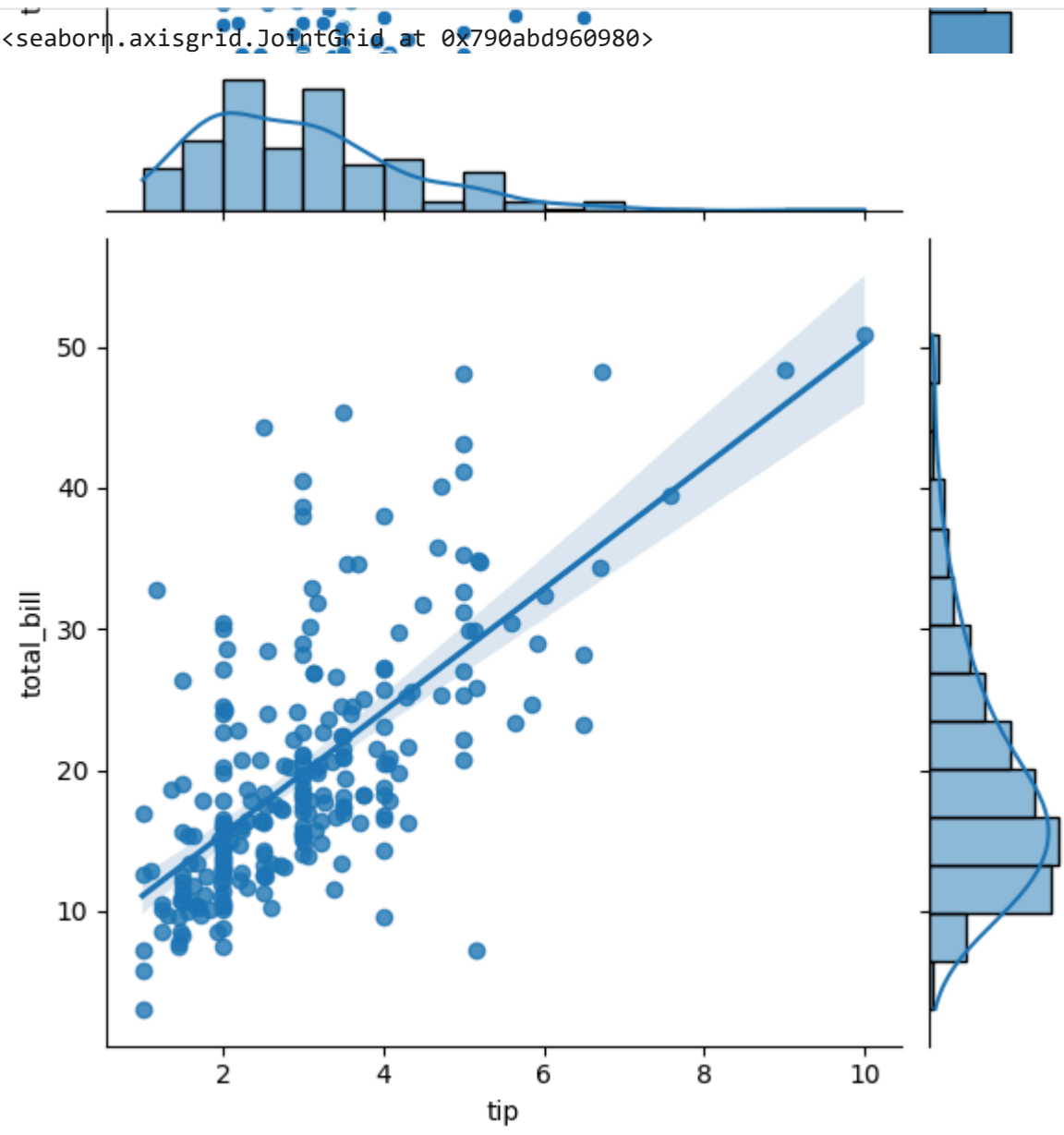

```
sns.jointplot(x=tips.tip, y=tips.total_bill)
```

```
<seaborn.axisgrid.JointGrid at 0x790ac1c5cf20>
```



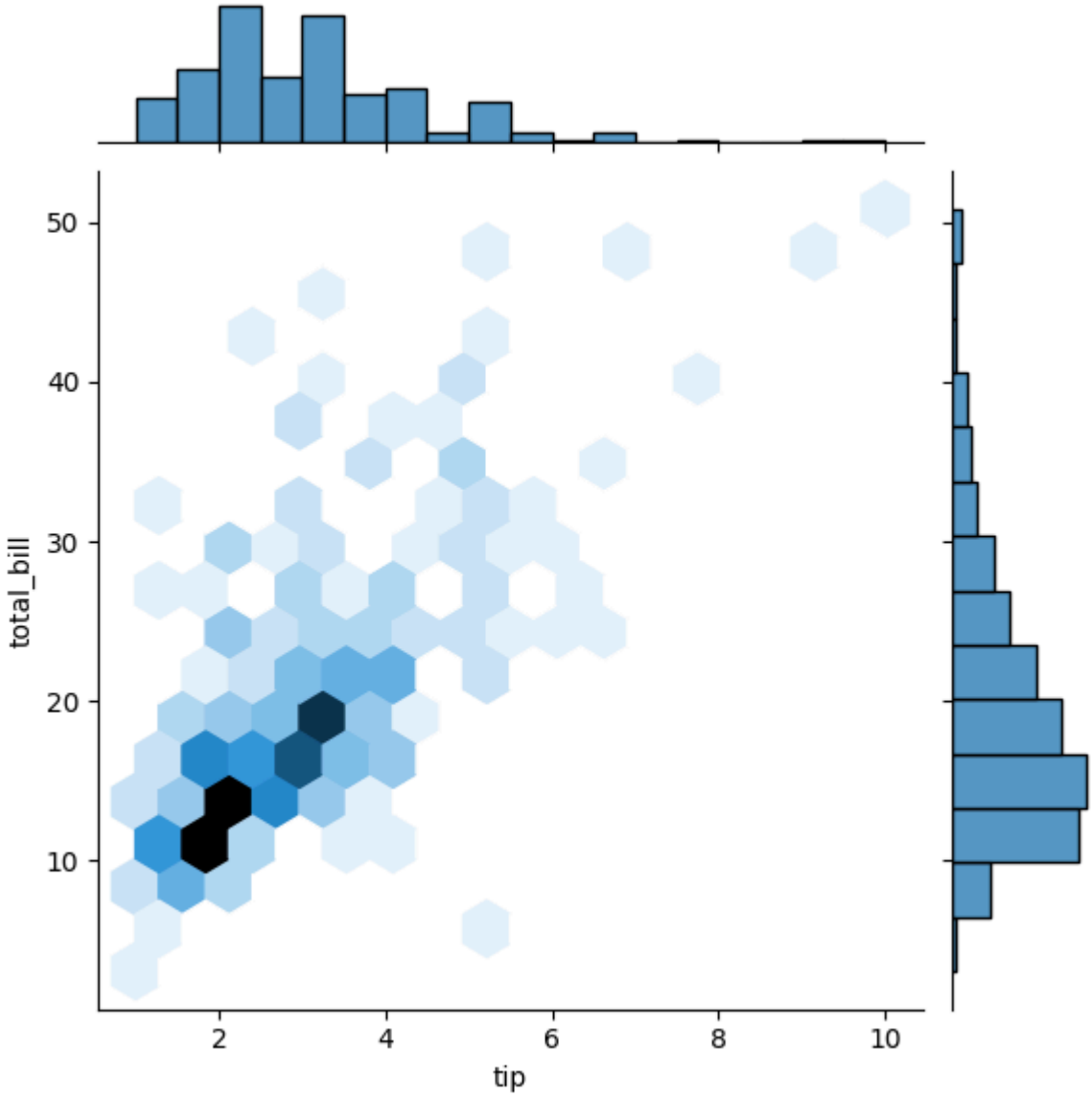

```
sns.jointplot(x=tips.tip, y=tips.total_bill, kind="reg")
```

```
<seaborn.axisgrid.JointGrid at 0x790abd960980>
```



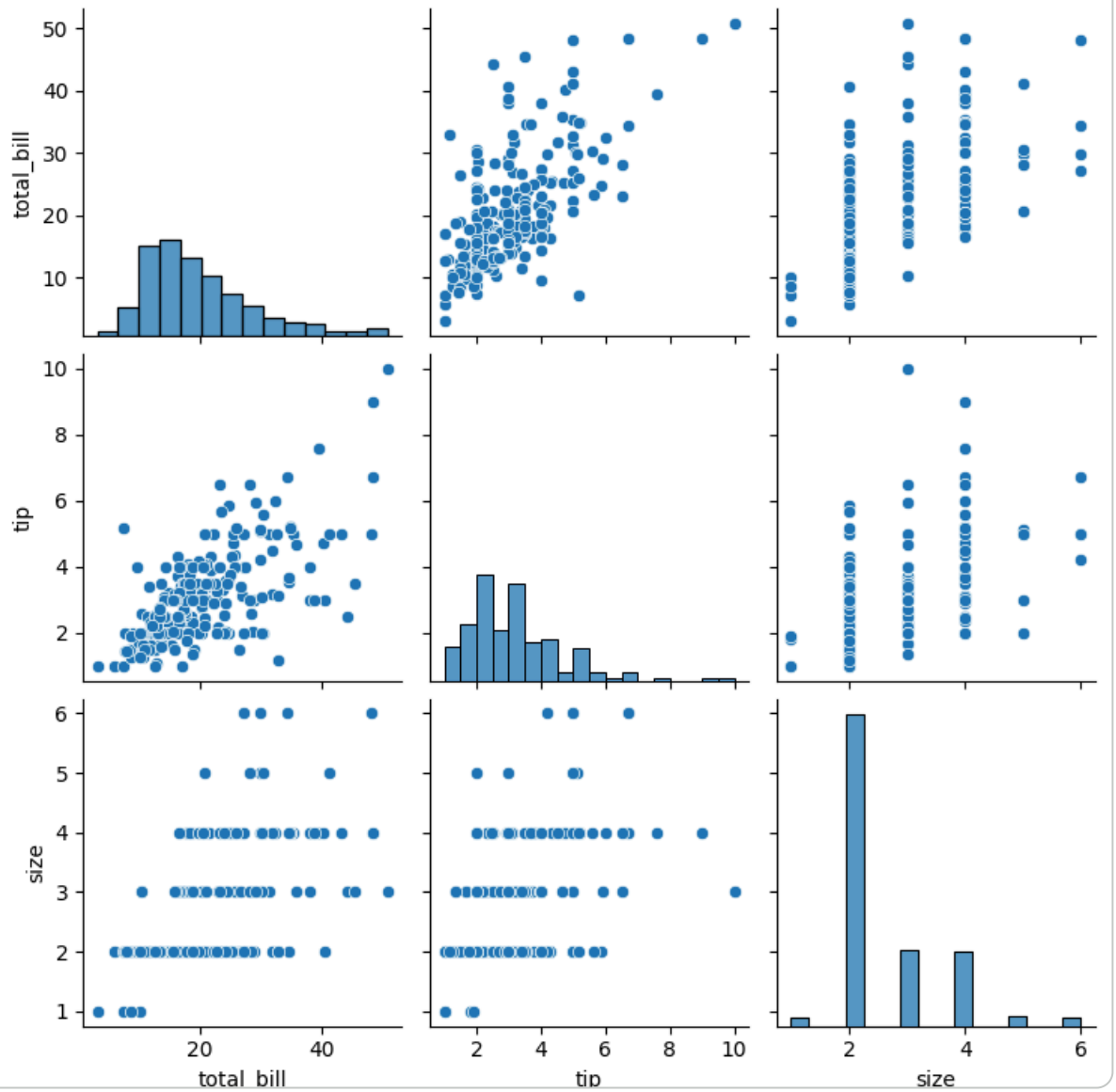

```
sns.jointplot(x=tips.tip, y=tips.total_bill, kind="hex")
```

```
<seaborn.axisgrid.JointGrid at 0x790abd788b00>
```




```
sns.pairplot(tips)
```

```
<seaborn.axisgrid.PairGrid at 0x790abd9352b0>
```



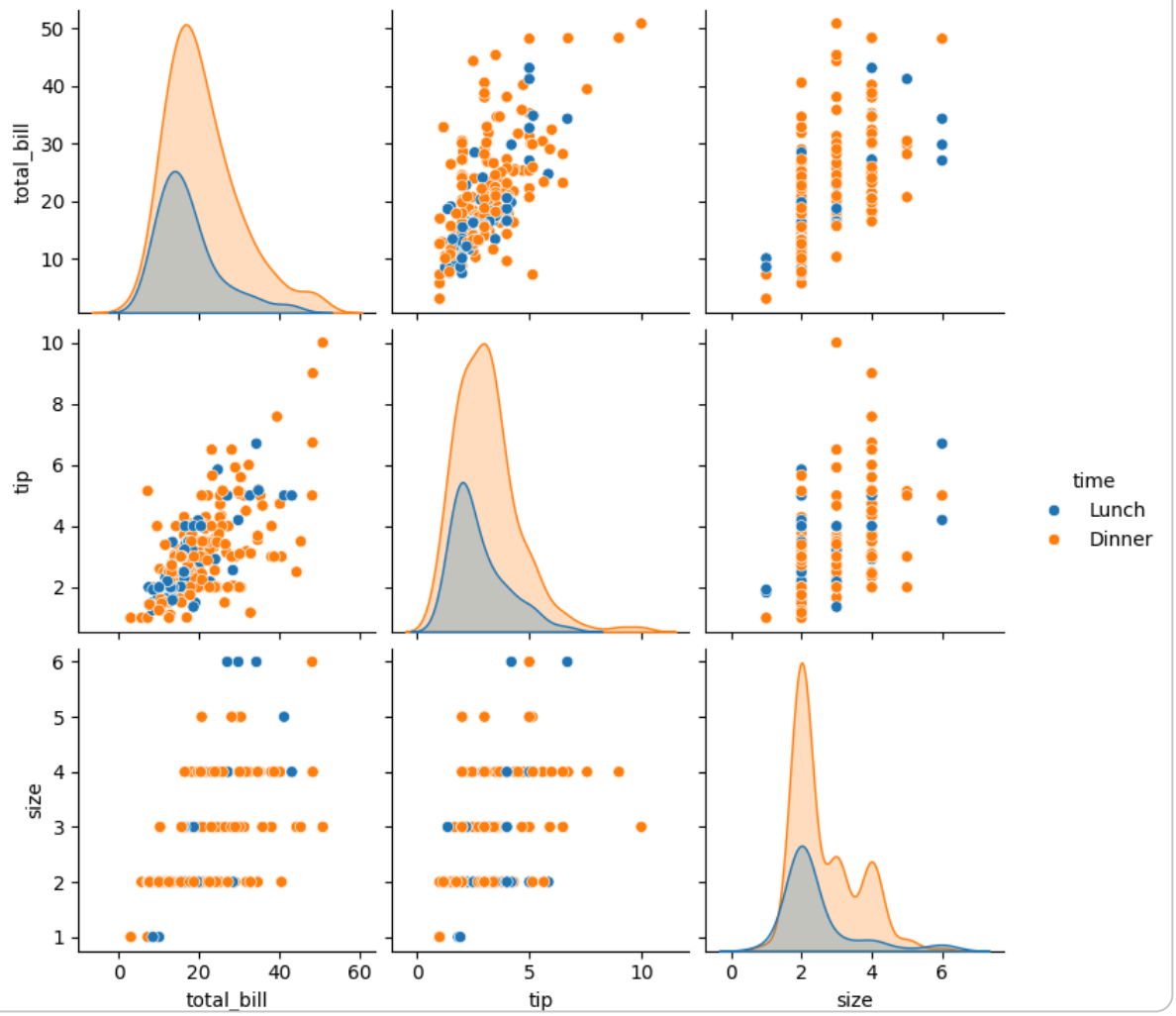

```
tips.time.value_counts()
```

| time | count |
|---|---|
| **Dinner** | 176 |
| **Lunch** | 68 |

**dtype:** int64

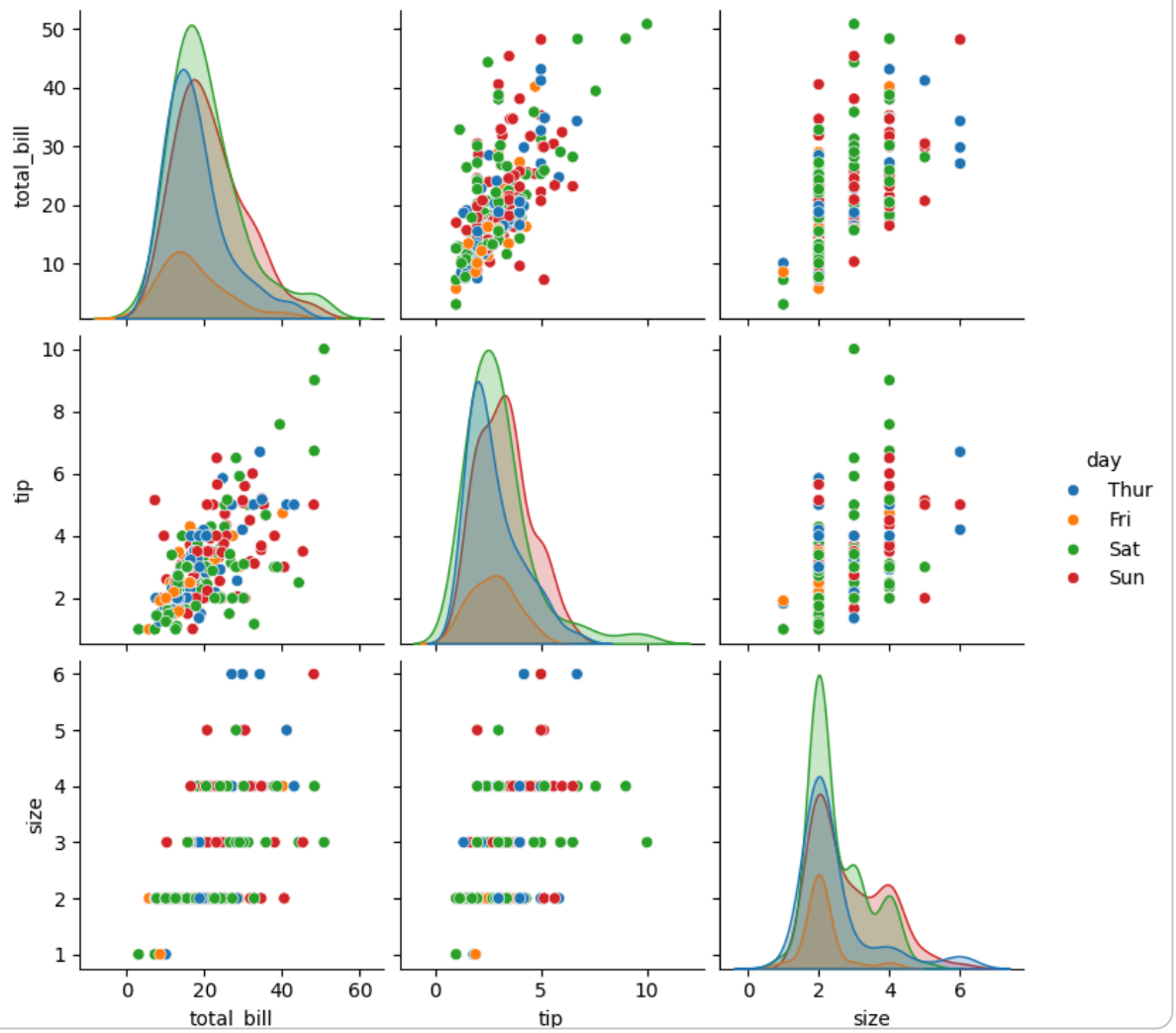
```
sns.pairplot(tips, hue='time')
```

```
<seaborn.axisgrid.PairGrid at 0x790abc0d0560>
```



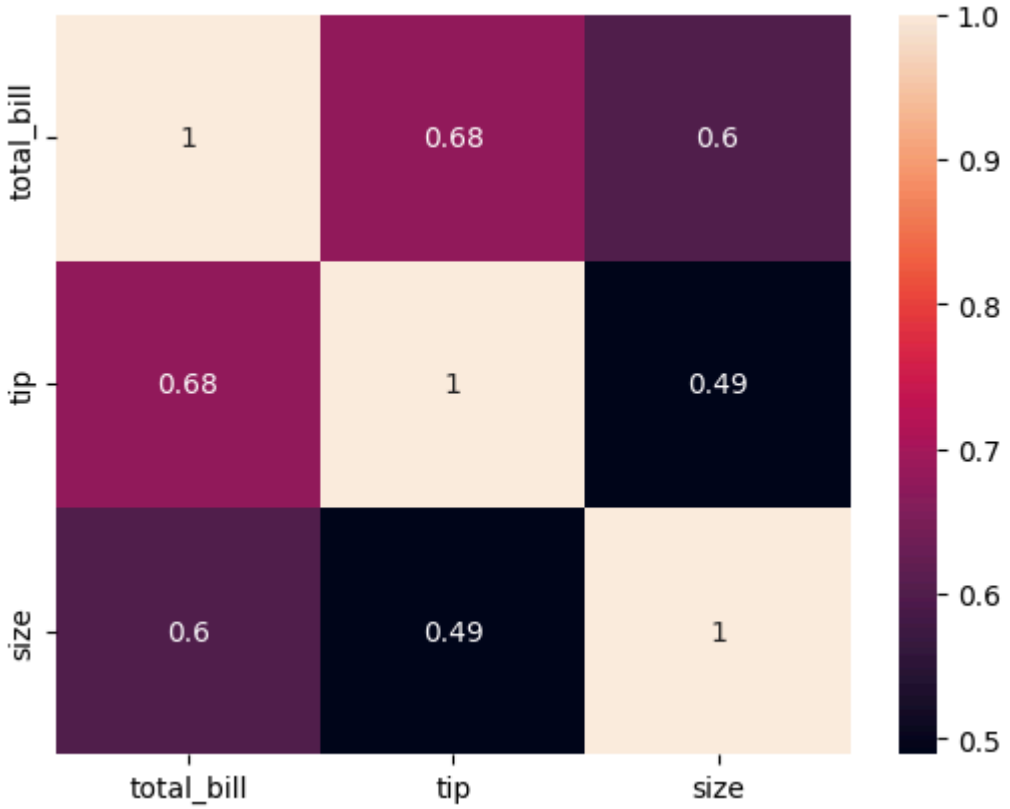

```
sns.pairplot(tips, hue='day')
```

```
<seaborn.axisgrid.PairGrid at 0x790abc3e29f0>
```



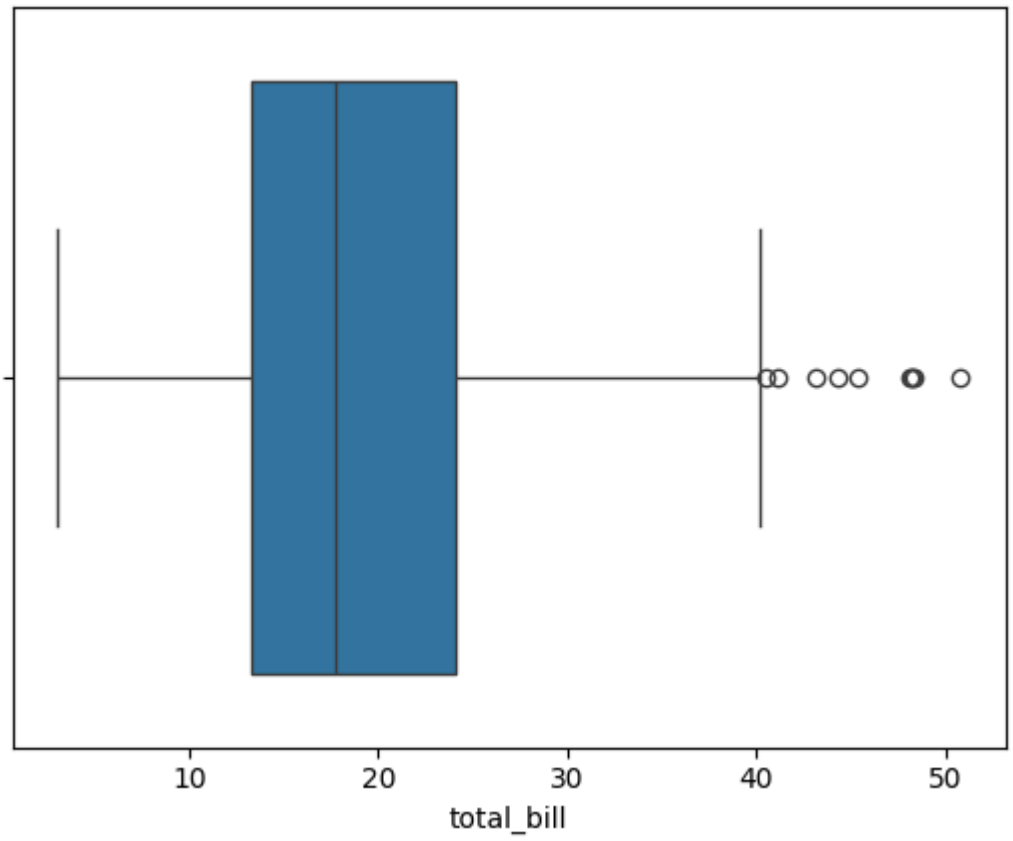

```
sns.heatmap(tips.corr(numeric_only=True), annot=True)
```

```
<Axes: >
```



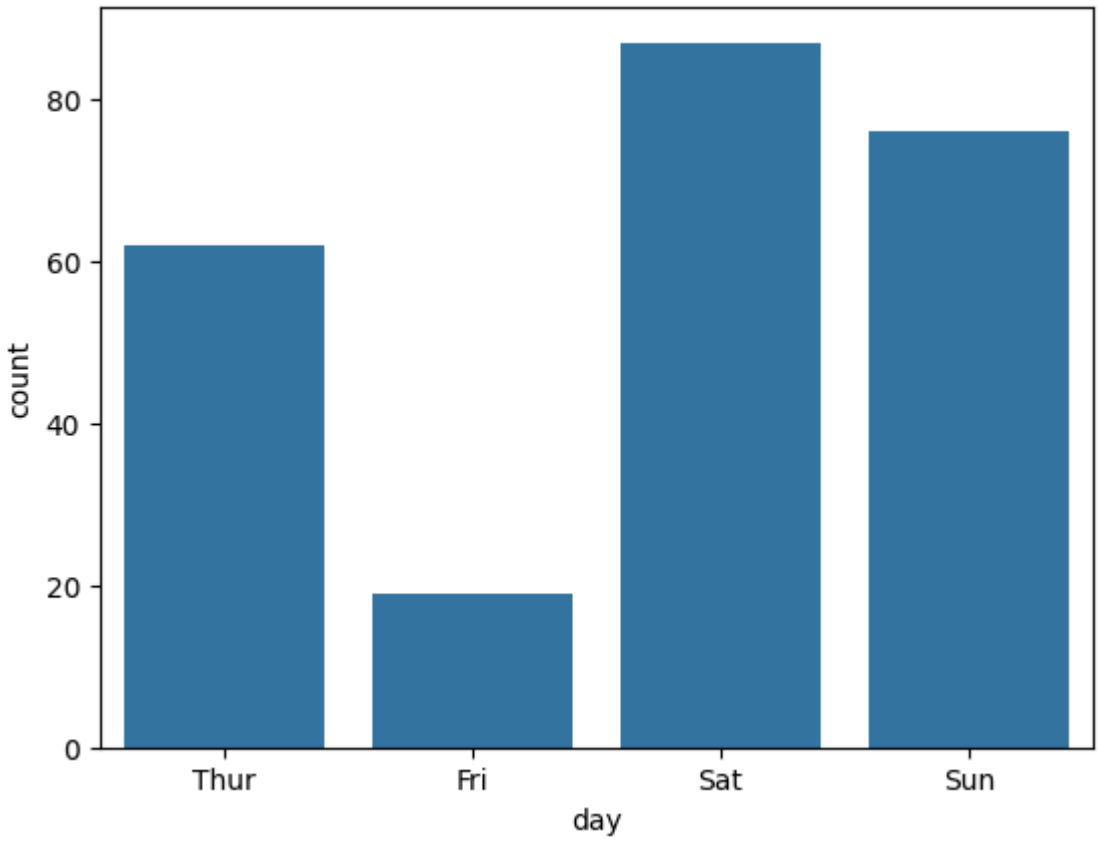

```
sns.boxplot(x=tips.total_bill)
```

```
<Axes: xlabel='total_bill'>
```



```
sns.countplot(x=tips.day)
```

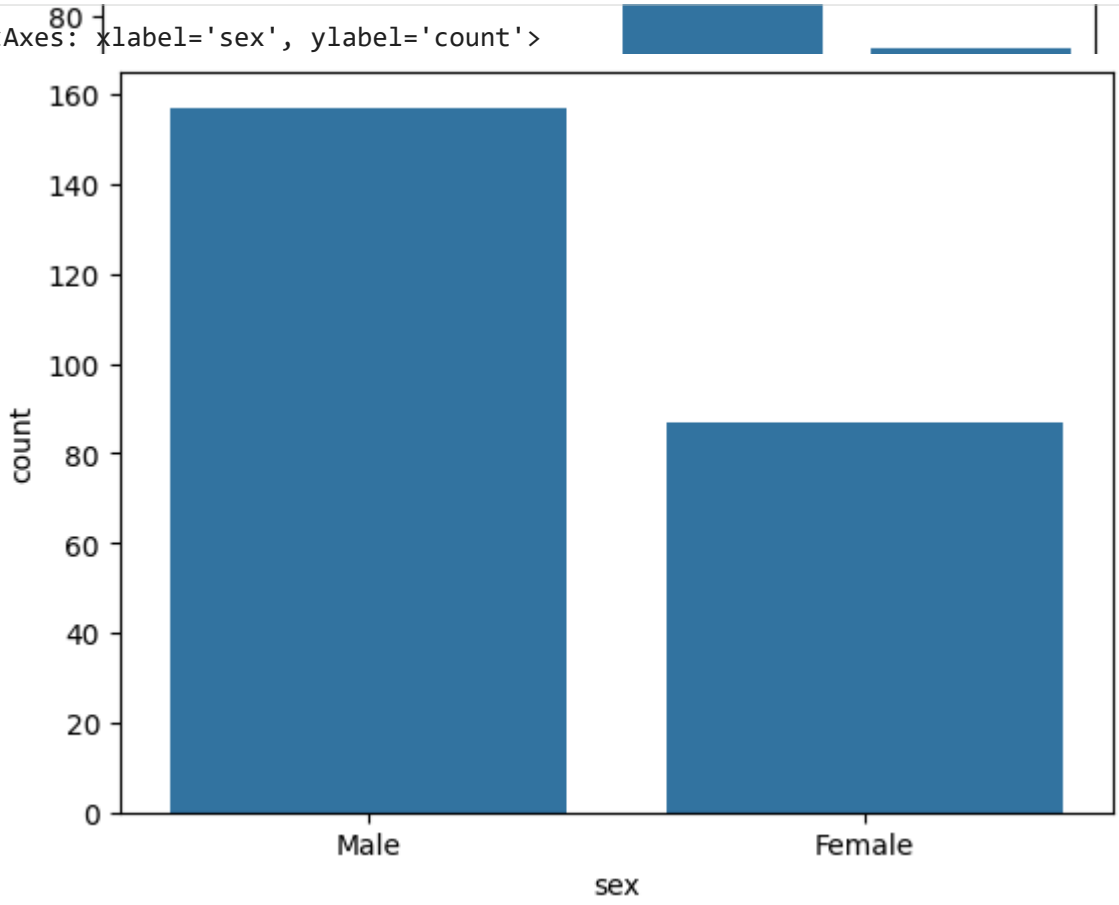
```
<Axes: xlabel='day', ylabel='count'>
```




```
sns.countplot(x=tips.day)
```

```
sns.countplot(x=tips.sex)
```

```
<Axes: xlabel='sex', ylabel='count'>
```




```
tips.sex.value_counts().plot(kind='pie', autopct='%1.1f%%')
plt.show()
```