

# Heatmaps

A heat map is a graphical representation of data where the individual values contained in a matrix are represented as colors.

(generally drawn between two categorical data, but sometime drawn discrete numerical data)

```
In [1]: import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

```
In [2]: plt.style.use('fivethirtyeight')
```

```
In [3]: flights=sns.load_dataset('flights')
```

```
In [4]: flights.head()
```

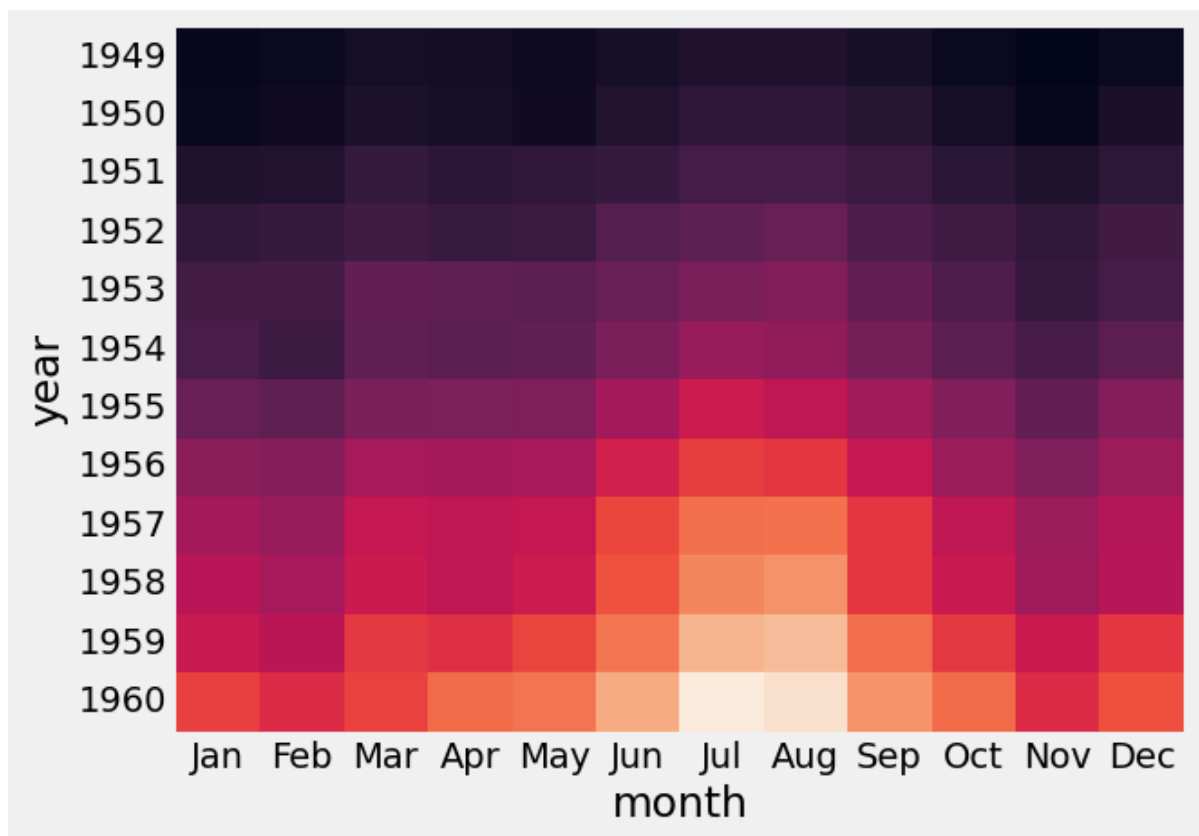
```
Out[4]:
```

	year	month	passengers
0	1949	Jan	112
1	1949	Feb	118
2	1949	Mar	132
3	1949	Apr	129
4	1949	May	121

```
In [6]: x=flights.pivot_table(index='year', columns='month', values='passengers', aggfunc=
```

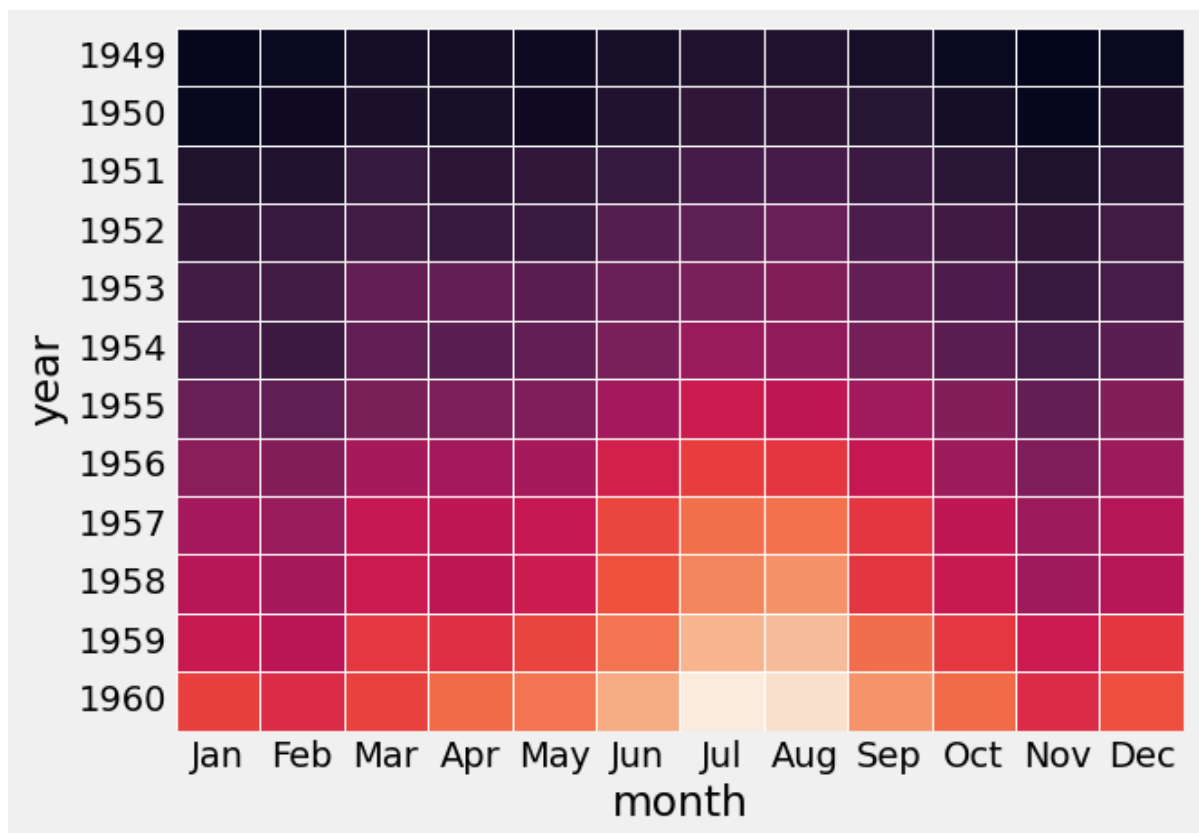
```
In [8]: sns.heatmap(x, cbar=False)
```

```
Out[8]: <Axes: xlabel='month', ylabel='year'>
```



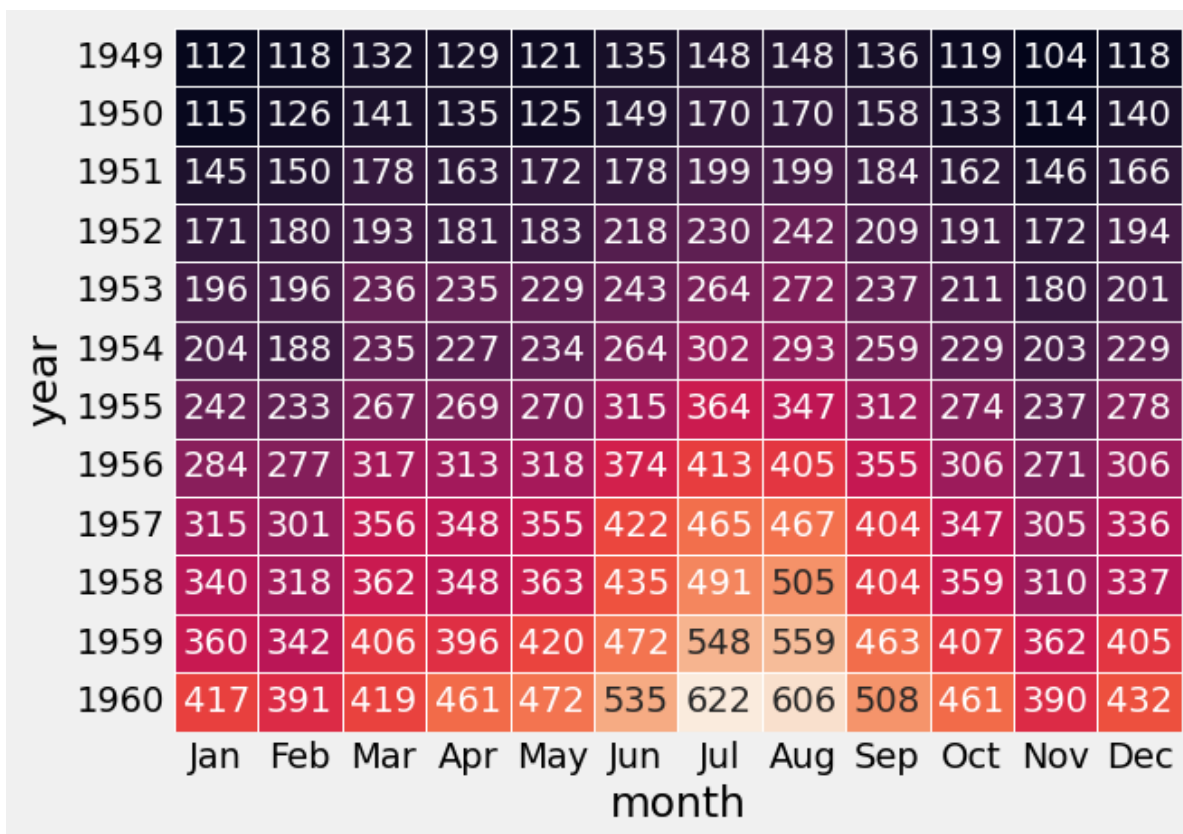
```
In [9]: sns.heatmap(x, cbar=False, linewidths=0.5)
```

```
Out[9]: <Axes: xlabel='month', ylabel='year'>
```



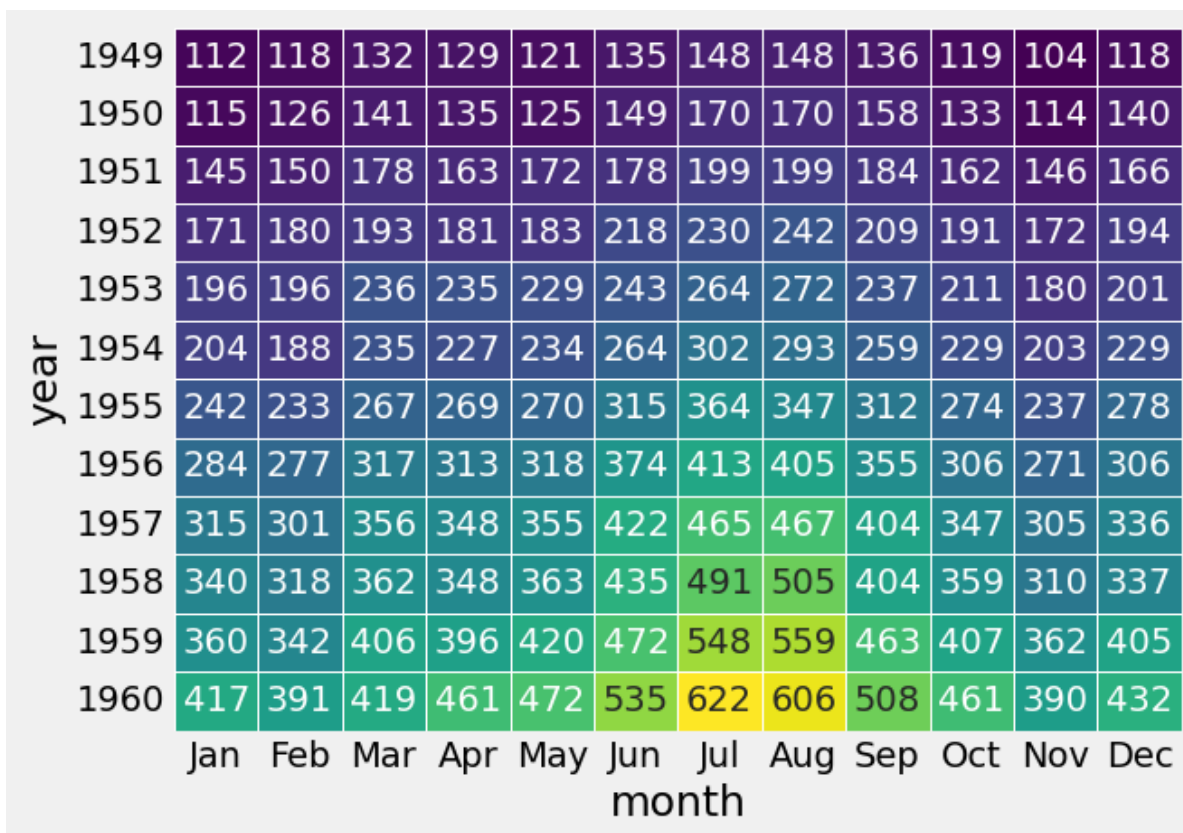
```
In [13]: sns.heatmap(x, cbar=False, linewidths=0.5, annot=True, fmt='d')
```

```
Out[13]: <Axes: xlabel='month', ylabel='year'>
```



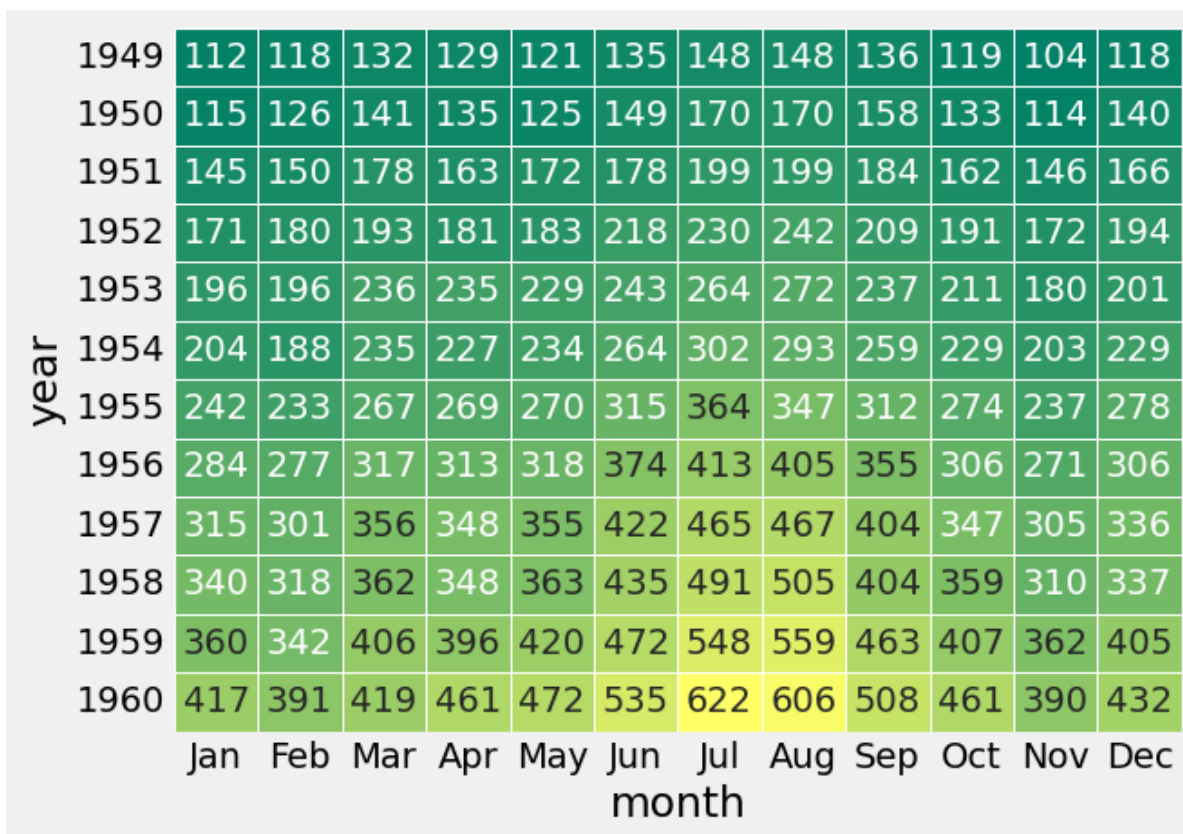
```
In [14]: sns.heatmap(x, cbar=False, linewidths=0.5, annot=True, fmt='d', cmap='viridis')
```

```
Out[14]: <Axes: xlabel='month', ylabel='year'>
```



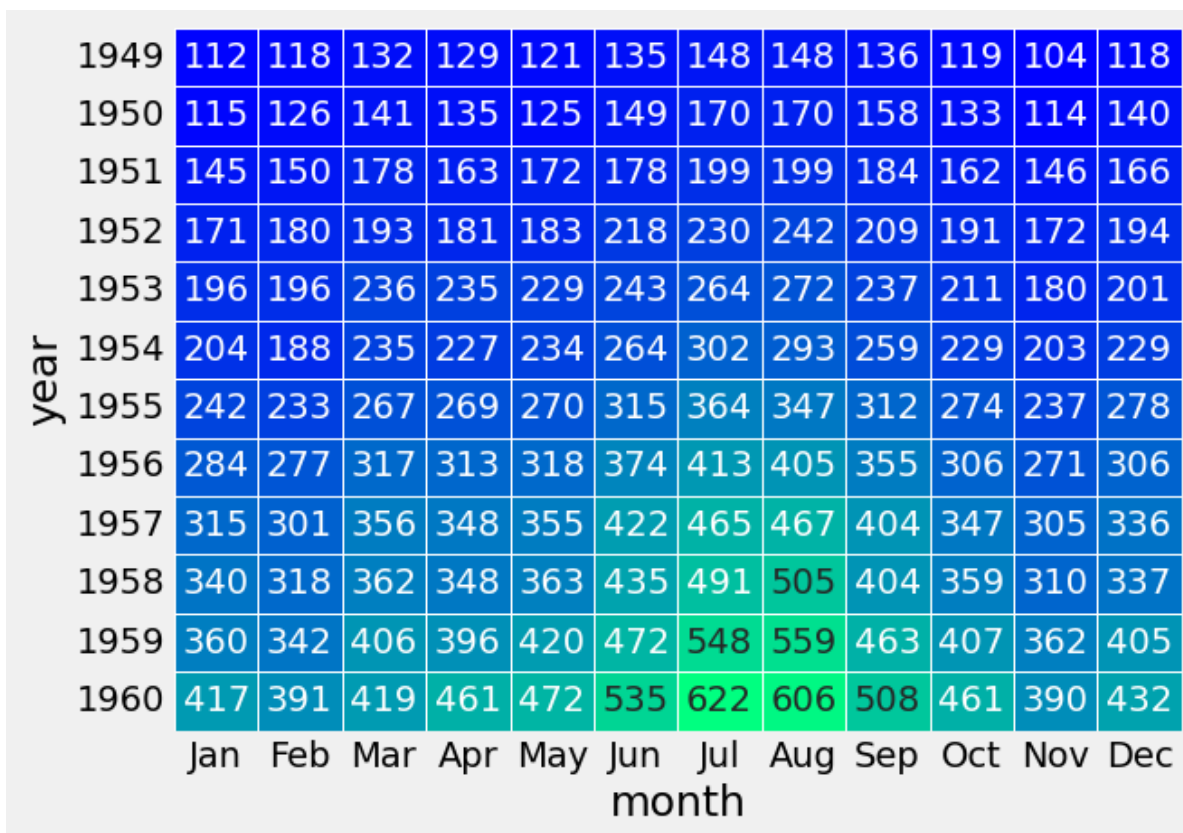
```
In [15]: sns.heatmap(x, cbar=False, linewidths=0.5, annot=True, fmt='d', cmap='summer')
```

```
Out[15]: <Axes: xlabel='month', ylabel='year'>
```



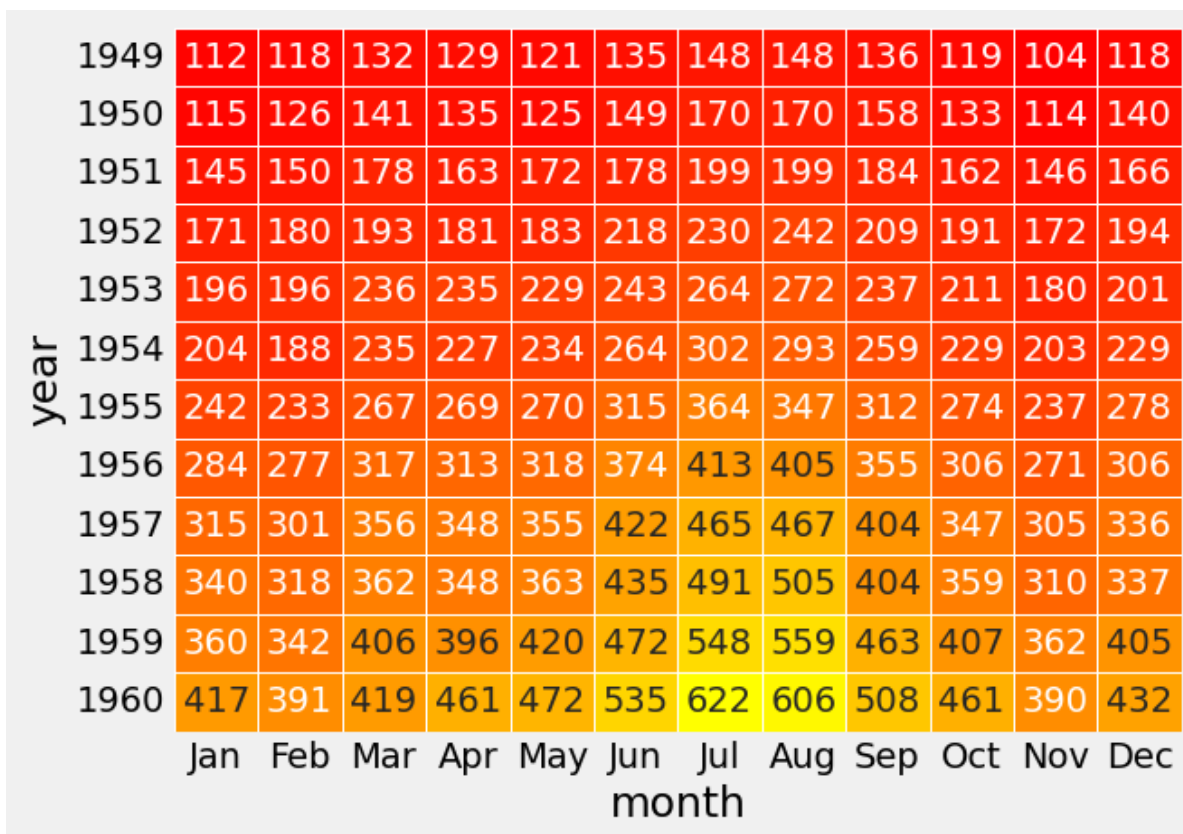
```
In [16]: sns.heatmap(x, cbar=False, linewidths=0.5, annot=True, fmt='d', cmap='winter')
```

```
Out[16]: <Axes: xlabel='month', ylabel='year'>
```



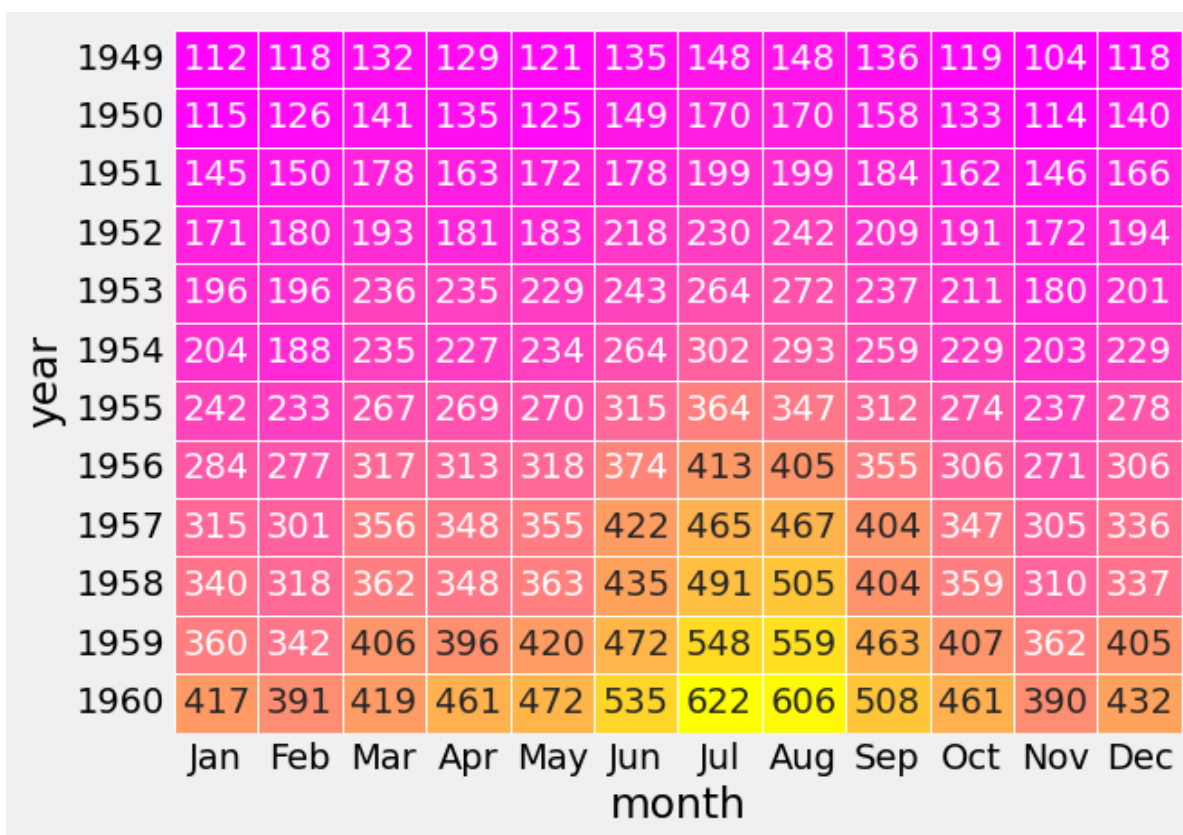
```
In [18]: sns.heatmap(x, cbar=False, linewidths=0.5, annot=True, fmt='d', cmap='autumn')
```

```
Out[18]: <Axes: xlabel='month', ylabel='year'>
```



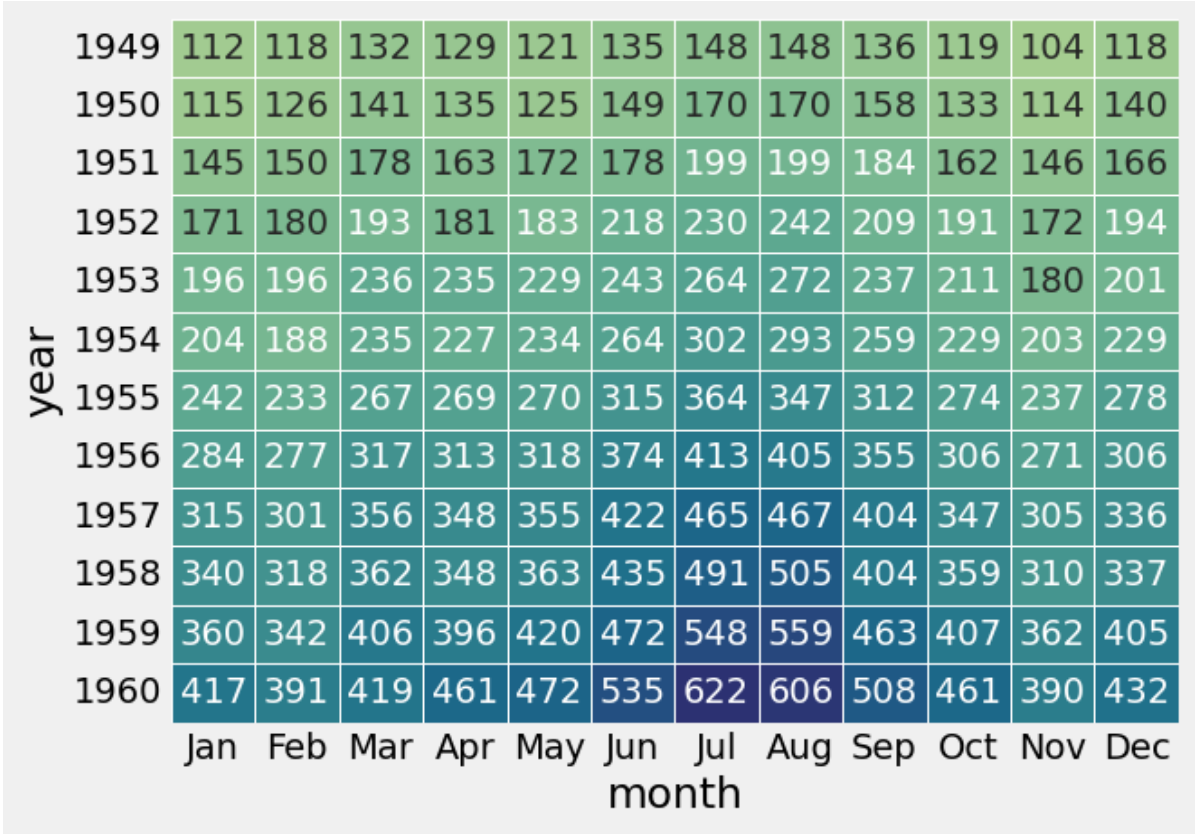
```
In [19]: sns.heatmap(x, cbar=False, linewidths=0.5, annot=True, fmt='d', cmap='spring')
```

```
Out[19]: <Axes: xlabel='month', ylabel='year'>
```



```
In [20]: sns.heatmap(x, cbar=False, linewidths=0.5, annot=True, fmt='d', cmap='crest')
```

```
Out[20]: <Axes: xlabel='month', ylabel='year'>
```



In [ ]:

In [ ]: