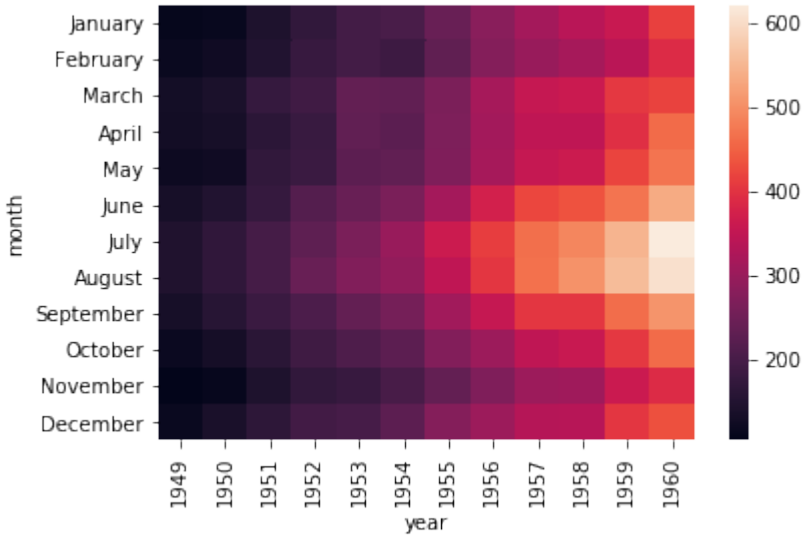
In [1]:
```
import matplotlib.pyplot as plt
import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
%matplotlib inline
```

In [2]:
```
yse = sns.load_dataset('flights')
yse.head()
```

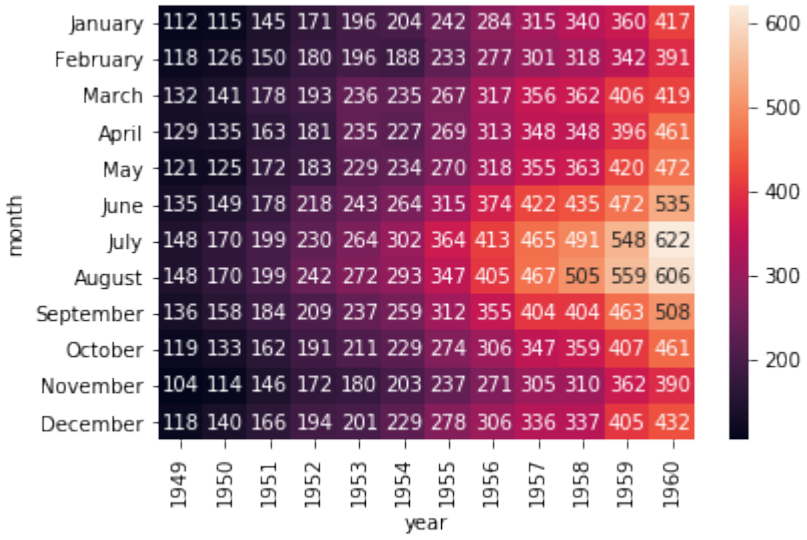
Out[2]:

	year	month	passengers
0	1949	January	112
1	1949	February	118
2	1949	March	132
3	1949	April	129
4	1949	May	121

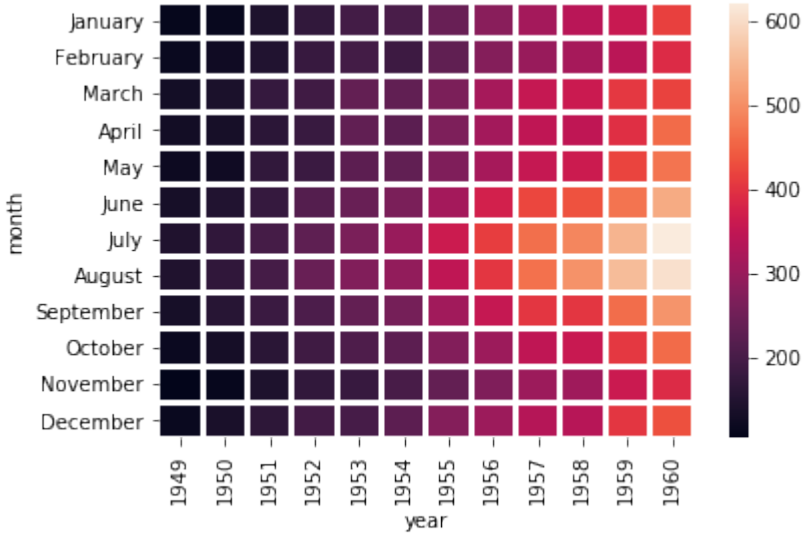
In [3]:
```
yse = sns.load_dataset('flights')
yse = yse.pivot('month', 'year', 'passengers')
display_yse = sns.heatmap(yse)
plt.savefig('Image01.png', dpi=300)
```



In [4]:
```
display_yse = sns.heatmap(yse, annot=True, fmt='d')
plt.savefig('Image02.png', dpi=300)
```



In [5]:
```
display_yse = sns.heatmap(yse, linewidth=2)
plt.savefig('Image03.png', dpi=300)
```

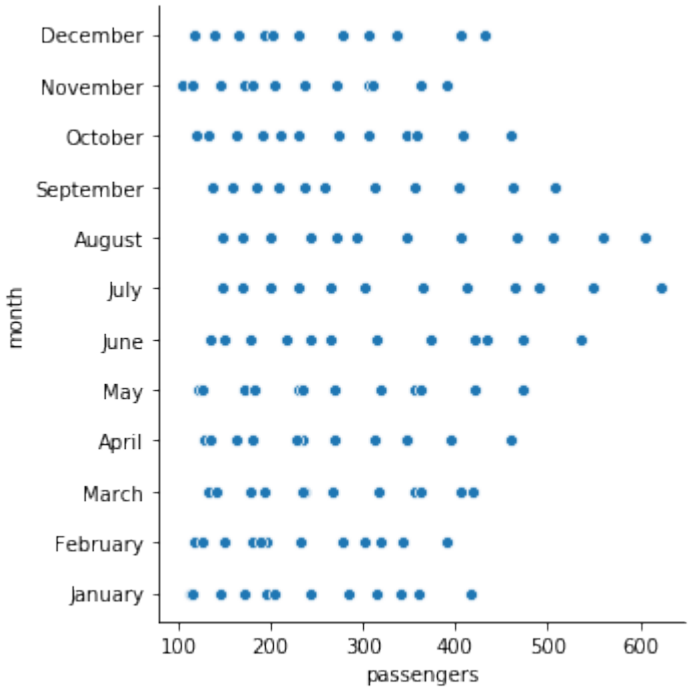


In [6]:
```
yse = sns.load_dataset('flights')
yse.head()
```

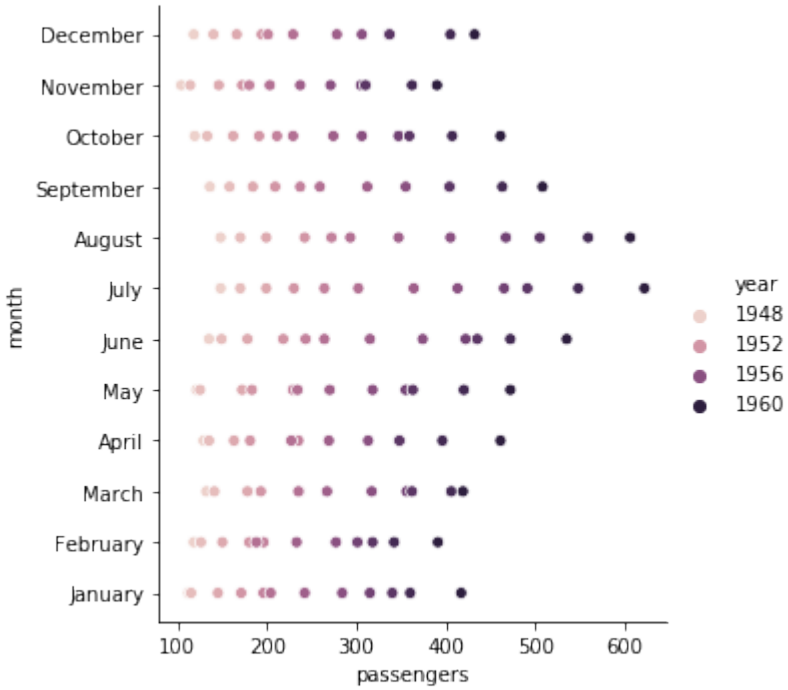
Out[6]:

	year	month	passengers
0	1949	January	112
1	1949	February	118
2	1949	March	132
3	1949	April	129
4	1949	May	121

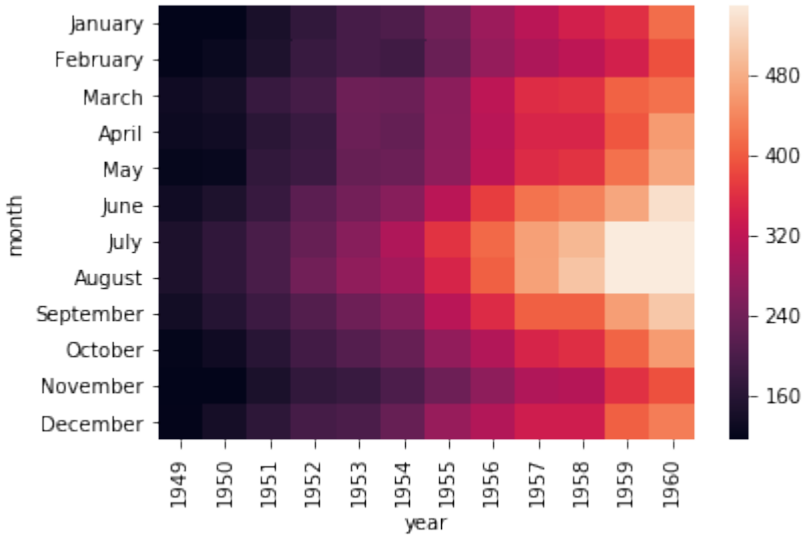
In [7]:
```
sns.relplot(x="passengers", y="month", data=yse)
plt.savefig('Image04.png', dpi=300)
```



In [8]:
```
sns.relplot(x="passengers", y="month", hue="year", data=yse)
plt.savefig('Image05.png', dpi=300)
```

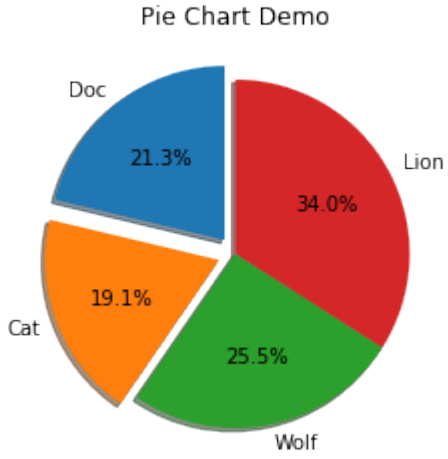


In [9]:
```
yse = sns.load_dataset('flights')
yse = yse.pivot('month', 'year', 'passengers')
display_yse = sns.heatmap(yse, robust=True)
plt.savefig('Image06.png', dpi=300)
```



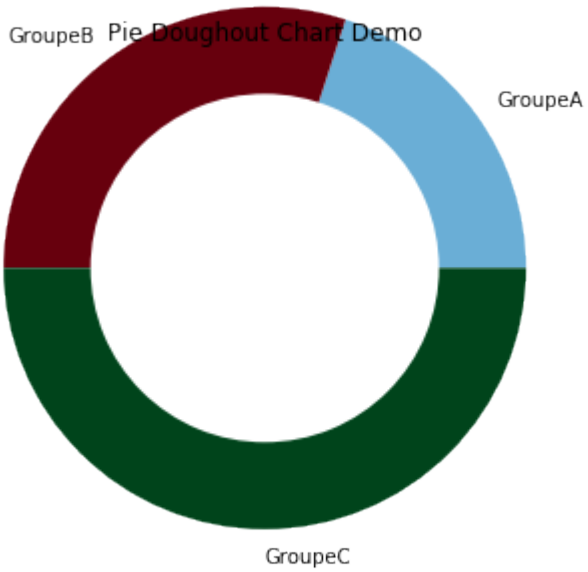
In [22]:
```
label = ['Doc', 'Cat', 'Wolf', 'Lion']
sizes = [50,45,60,80]

#Creating the pie chart
plt.pie(sizes, labels = label,autopct='%1.1f%%', shadow=True, startangle
 = 90,explode = (0.1,0.1,0,0))
plt.title("Pie Chart Demo")
plt.savefig('Image08.png', dpi=300)
plt.show()
```



How to create a Doughnut Chart

In [26]:
```
#define the dataset
group_names = ["GroupeA", "GroupeB", "GroupeC"]
group_size = [20,30,50]
size_centre = [5]
a,b,c = [plt.cm.Blues,plt.cm.Reds,plt.cm.Greens]
#creation the doughout chart
pie1 = plt.pie(group_size,labels = group_names, radius = 1.5,colors = [a
(0.5),b(1.5),c(1.0)])
pie2 = plt.pie(size_centre,radius = 1,colors ='w')
plt.title("Pie Doughout Chart Demo")
plt.savefig('Image09.png', dpi=300)
plt.show()
```



In [ ]: