In [1]:
```
import pandas as pd
!pip install squarify
import matplotlib.pyplot as plt
import squarify
```

```
Requirement already satisfied: squarify in c:\users\aarme\anaconda3\lib\site-packages (0.4.3)
```

In [2]:
```
expend = pd.read_table('expenditures.txt', sep= '\t')
expend.head()
```

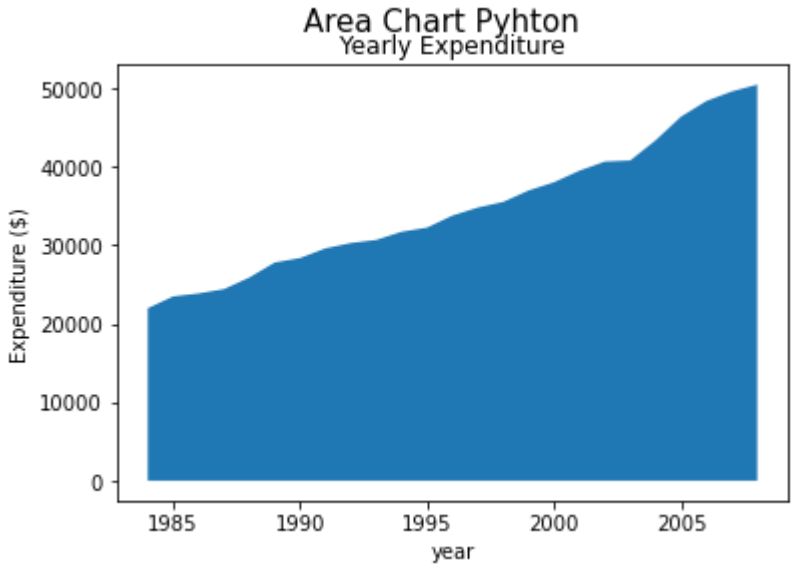
Out[2]:

	year	category	expenditure	sex
0	2008	Food	6443	1
1	2008	Alcoholic Beverages	444	1
2	2008	Housing	17109	1
3	2008	Apparel	1801	1
4	2008	Transportation	8604	1

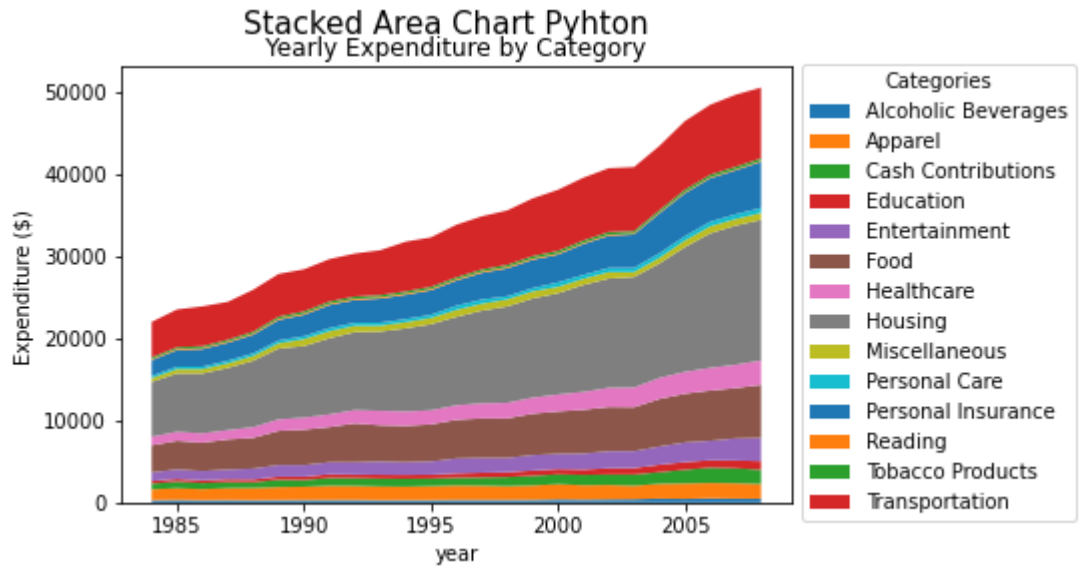
In [3]:
```
import plotly.express as px
fig = px.treemap(expend, path= ['year', 'category'], values= 'expenditure', title = 'Tree Map in Python<br><sup>
fig.show()
```

In [12]:
```
expend2 = expend.groupby('year').sum()
```

In [69]:
```
plt.fill_between(expend2.index, expend2['expenditure'])
plt.suptitle('Area Chart Pyhton', size=15)
plt.title('Yearly Expenditure')
plt.ylabel('Expenditure ($)')
plt.xlabel('year');
```



In [68]:
```
expend3 = expend.pivot(index= 'year', columns= 'category').drop('sex', axis=1)
plt.stackplot(expend3.index, [expend3['expenditure'][col] for col in expend3['expenditure']], labels= expend3['e
plt.legend(bbox_to_anchor= (1,1.03), loc = 'upper left', title= 'Categories')
plt.suptitle('Stacked Area Chart Pyhton', size=15)
plt.title('Yearly Expenditure by Category')
plt.ylabel('Expenditure ($)')
plt.xlabel('year');
```



In [ ]: