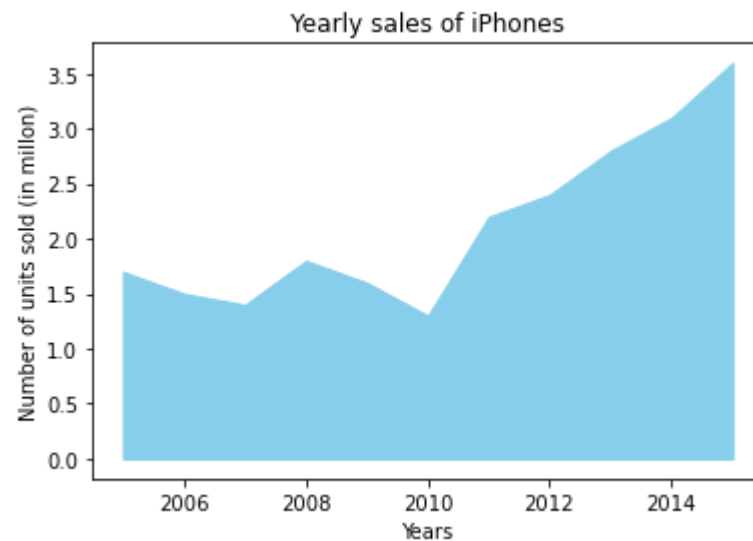


Basic area plot ¶

```
In [1]: 1 import matplotlib.pyplot as plt
        2 import pandas as pd
```

```
In [2]: 1 #creating data
        2 x = [2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015]
        3 y = [1.7, 1.5, 1.4, 1.8, 1.6, 1.3, 2.2, 2.4, 2.8, 3.1, 3.6]
```

```
In [3]: 1 #area plot
        2 plt.fill_between(x, y, color='skyblue' )
        3 plt.xlabel('Years')
        4 plt.ylabel('Number of units sold (in millon)')
        5 plt.title('Yearly sales of iPhones')
        6 plt.show()
```

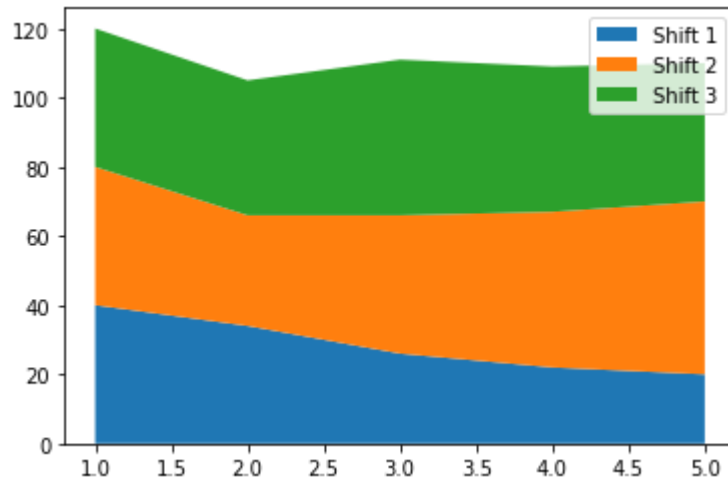


Stacked Area plot

```
In [4]: 1 week = [1,2,3,4,5]
        2
        3 shift1 = [40,34,26,22,20]
        4 shift2 = [40,32,40,45,50]
        5 shift3 = [40,39,45,42,40]
```

```
In [5]: 1 plt.stackplot(week, shift1, shift2, shift3, labels=['Shift 1','Shift 2', 'Shift 3'])
        2 plt.legend()
```

Out[5]: <matplotlib.legend.Legend at 0x1e0888b9670>



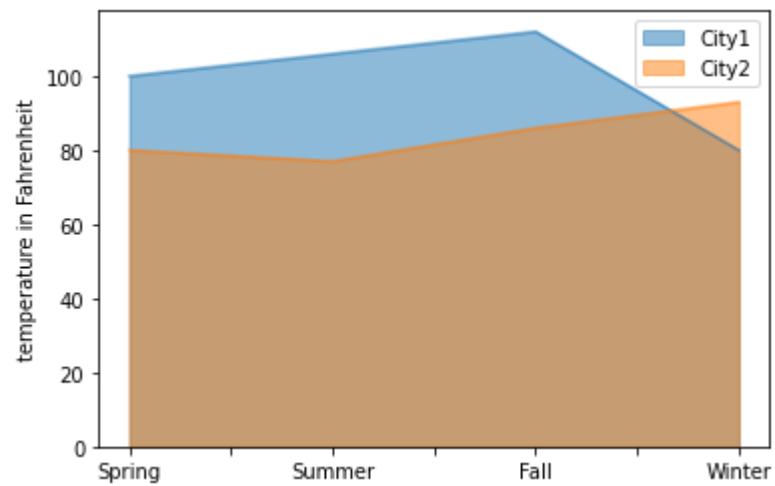
Overlapped Area Plot

```
In [6]: 1 tempData = { 'City1':[100, 106, 112, 80],
        2              'City2':[80, 77, 86, 93] }
        3 Seasons = ('Spring', 'Summer', 'Fall', 'Winter')
```

```
In [7]: 1 df = pd.DataFrame(tempData, index = Seasons)
```

```
In [8]: 1 df.plot(kind='area', stacked = False)
        2 plt.ylabel('temperature in Fahrenheit')
```

Out[8]: Text(0, 0.5, 'temperature in Fahrenheit')



```
In [ ]:
```

```
1
```