

Rodriguez_Felipe_DSC640_Week_5&6_Python_Code

January 21, 2024

```
[1]: import pandas as pd
```

```
[2]: # Read Data
df = pd.read_csv('us_retail_sales.csv')
```

```
[3]: # Format year to date
df['YEAR'] = pd.to_datetime(df['YEAR'], format='%Y')
```

```
[4]: df = df.set_index('YEAR')
```

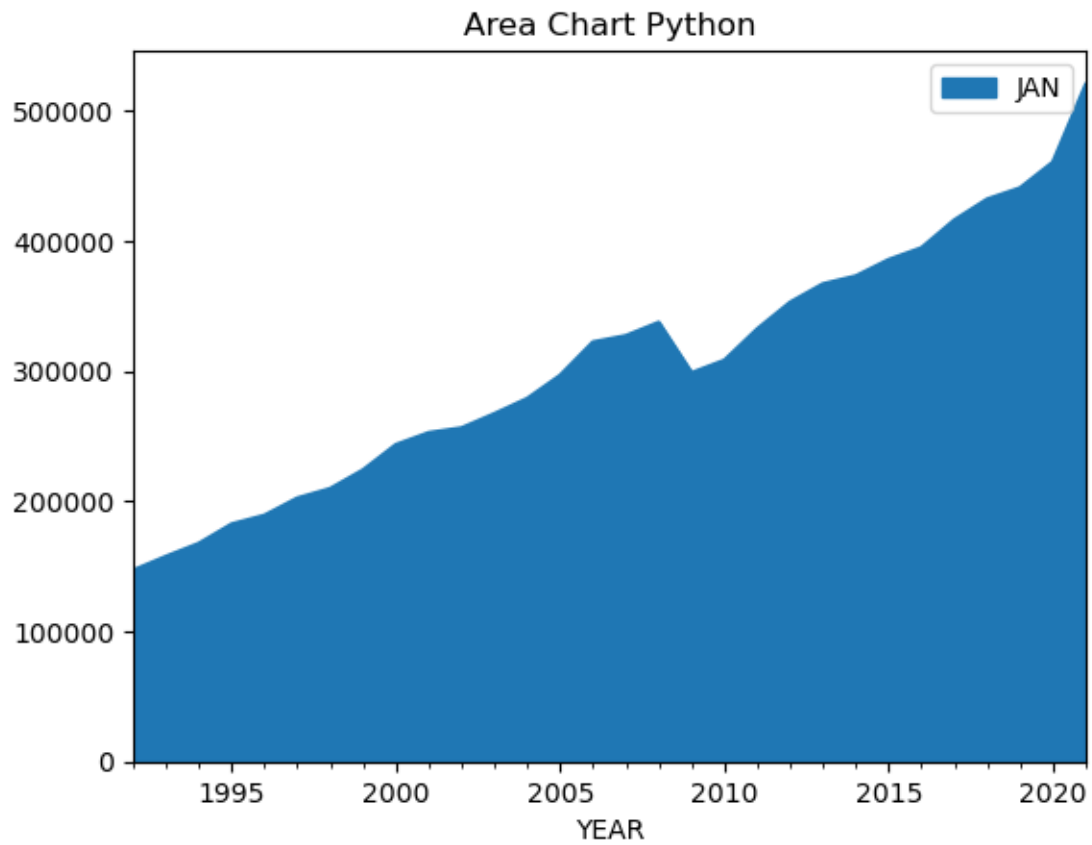
```
[5]: df.head()
```

```
[5]:
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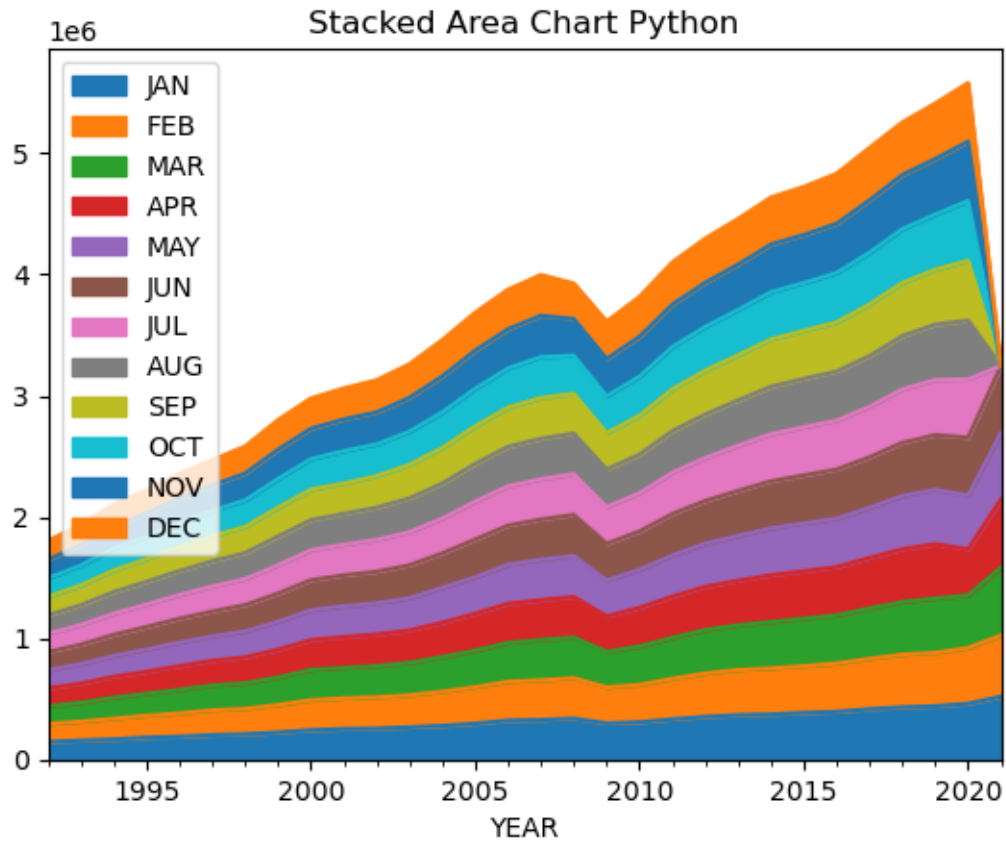
	JAN	FEB	MAR	APR	MAY	JUN	JUL \
YEAR							
1992-01-01	146925	147223	146805	148032	149010	149800	150761.0
1993-01-01	157555	156266	154752	158979	160605	160127	162816.0
1994-01-01	167518	169649	172766	173106	172329	174241	174781.0
1995-01-01	182413	179488	181013	181686	183536	186081	185431.0
1996-01-01	189135	192266	194029	194744	196205	196136	196187.0

	AUG	SEP	OCT	NOV	DEC
YEAR					
1992-01-01	151067.0	152588.0	153521.0	153583.0	155614.0
1993-01-01	162506.0	163258.0	164685.0	166594.0	168161.0
1994-01-01	177295.0	178787.0	180561.0	180703.0	181524.0
1995-01-01	186806.0	187366.0	186565.0	189055.0	190774.0
1996-01-01	196218.0	198859.0	200509.0	200174.0	201284.0

```
[6]: # Area Chart of January
ax = df.plot.area(y='JAN', title='Area Chart Python')
```



```
[7]: # Stacked Area chart all months  
ax = df.plot.area(stacked=True, title='Stacked Area Chart Python')
```



```
[15]: import squarify
import matplotlib.pyplot as plt
```

```
[9]: # Read Data
df = pd.read_csv('us_retail_sales.csv')
```

```
[16]: # Treemap of january
squarify.plot(sizes = df['JAN'],
              label = df['YEAR'])
plt.title('Tree Map Python')
```

```
[16]: Text(0.5, 1.0, 'Tree Map Python')
```

