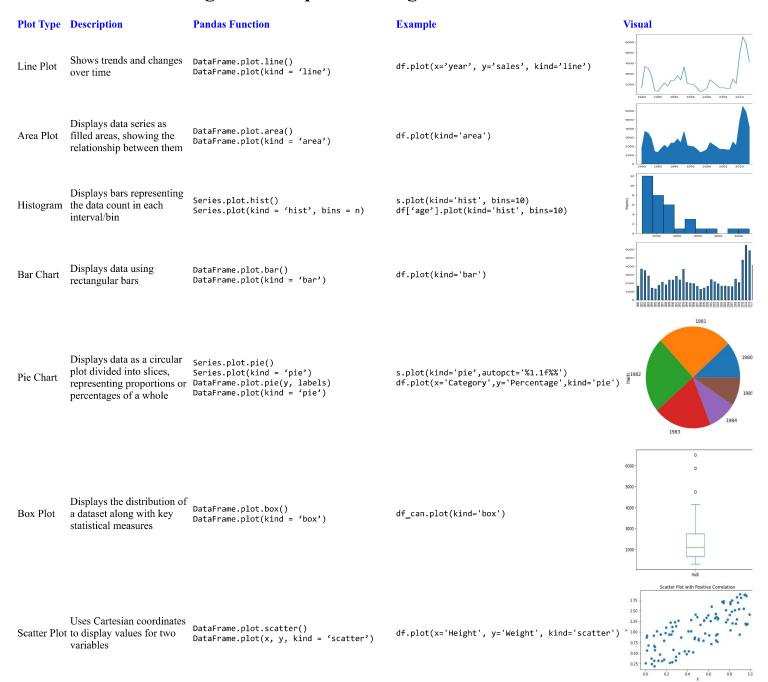
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## **Data Visualization with Python**

## **Cheat Sheet: Plotting with Matplotlib using Pandas**



# **Cheat Sheet: Plotting directly with Matplotlib**

Plot Type	Description	Matplotlib Function	Example	Visual
Line Plot	Shows trends and changes over time	plt.plot()	<pre>plt.plot(x, y, color='red', linewidth=2)</pre>	To Line Plot  3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

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Plot Type	Description	<b>Matplotlib Function</b>	Example	Visual
Area Plot	Display data series as filled areas	plt.fill_between()	<pre>plt.fill_between(x, y1, y2, color='blue', alpha=0.5)</pre>	6009- 1009-
Histogram	Displays bars representing the data count in each interval/bin	plt.hist()	<pre>plt.hist(data, bins=10, color='orange', edgecolor='black')</pre>	100 100 100 100 100 100 100 100 100 100
Bar Chart	Displays data using rectangular bars	plt.bar()	plt.bar(x, height, color='green', width=0.5)	Sarryan uar river
Pie Chart	Displays data as a circular plot divided into slices, representing proportions or percentages of a whole	plt.pie()	<pre>plt.pie(sizes, labels=labels, colors=colors, explode=explode)</pre>	1981 1980 1983
Box Plot	Displays the distribution of a dataset along with key statistical measures	plt.boxplot()	plt.boxplot(data, notch=True)	8 8 0 8 Plot  4
Scatter Plot	Uses Cartesian coordinates to display values for two variables	plt.scatter()	<pre>plt.scatter(x, y, color='purple', marker='o', s=50)</pre>	Scatter Plot without Outliers
Subplotting	Creating multiple plots on one figure	plt.subplots()	<pre>fig, axes = plt.subplots(nrows=2, ncols=2)</pre>	The plat on investigation.  See the plat on investigation.  See the plat on investigation.  See the plat of investigation.  Se
Customization	Customizing plot: adding labels, title, legend, grid	Various customization	<pre>plt.title('Title') plt.xlabel('X Label') plt.ylabel('Y Label') plt.legend() plt.grid(True)</pre>	

### Author(s)

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### Changelog

DateVersion Changed byChange Description2023-06-10 0.1Dr. PoojaInitial version created