

|                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>Terms</div> <div>The terms will be used to refer to:<ul style="list-style-type: none"><li>- df = Pandas DataFrame</li><li>- series = Pandas Series</li><li>- data = Pandas DataFrame or Series</li></ul></div>                                                     | <div>Scatter plot</div> <div><pre>-DataFram.e.plot.scatter(x=' ', y='DataFrame.plot.hexbin(x='N', y='N', grid=True, bins=10, color='b', label='Group 1', ax= ax)</pre><pre>-df.plot.scatter(x='C ', y='D ', color='Other', label= 'Group 2', ax= ax)</pre></div> | <div>Hexagonal bin plot</div> <div><pre>- DataFrame.plot.hexbin(x='N', y='N', grid=True, bins=10, color='b', label='Group 1', ax= ax)</pre></div>                                                                                                                                                                                                                                                             |
| <div>Plot whith Series and DataFrames</div> <div><pre>- series.plot()</pre><pre>- dataFrame.plot( x=' Non e', y=' None')</pre><pre>- data.plot.&lt;k ind &gt;()</pre></div> <div>'bar' or 'barh', 'hist', 'box', 'kde' or 'density' , 'hexbin', 'pie' and</div>         | <div>Histograms</div> <div><pre>- data.plot.hist()</pre><pre>- data.plot.hist( stacke d=True, bins=10)</pre><pre>- data.plot.hist( ori ent ati on= 'horizontal', cumulative= True)</pre><pre>data.diff().hist(colo r='g', alpha=0.5)</pre></div>                 | <div>Series</div> <div>DataFrame</div> <div>Histogram</div> <div>Density plot</div> <div>Another plot</div> <div>Density plot</div> <div>Stacked</div> <div>Kinds and bins</div> <div>Plot for data .CSV</div> <div>size</div> <div>Horizontal</div> <div>Andrews curves</div> <div>and</div> <div>Parallel coordinates</div> <div>Subplots</div> <div>histograms</div> <div>RadViz</div> <div>Box plot</div> |
| <div>Bar Plot</div> <div><pre>- data.plot.bar() /.barh()</pre><pre>- data.plot.ba r(s tac ked = True)</pre></div>                                                                                                                                                       | <div>Bar plot</div> <div>Horizontal plot</div> <div>Stacked bar plot</div>                                                                                                                                                                                       | <div>Horizontal</div> <div>Andrews curves</div> <div>Parallel coordinates</div> <div>Subplots</div> <div>histograms</div> <div>RadViz</div> <div>Box plot</div>                                                                                                                                                                                                                                               |
| <div>Area Plots</div> <div><pre>- data.plot.area()</pre><pre>- data.plot.ar ea( sta cke d=False)</pre></div>                                                                                                                                                            | <div>Area plot</div> <div>Non-Stacked area plot</div>                                                                                                                                                                                                            | <div>Box plot</div> <div>Color</div> <div>Box plot</div>                                                                                                                                                                                                                                                                                                                                                      |
| <div>Pie plot</div> <div><pre>- series.pl ot.p ie()</pre><pre>- DataFrame.pl ot.p ie (su bpl ots =True)</pre><pre>- series.pl ot.p ie (la bels= ['A',' B', 'C'], colors= ['r',' b', 'g'], autopct= '%.2f')</pre></div> <div>It's valid: <br/>fontsize and figsize</div> | <div>The "choice random" is:</div> <div><pre>- df.p r and om_ cho ice ([ 'A', 'B' ],s ize =50))</pre></div>                                                                                                                                                      | <div>Plotting Tools from Pandas Plotting</div> <div>Color</div> <div>Box plot</div> <div>Scatter matrix plot</div> <div>Horizontal box plot</div> <div>Lag plot</div> <div>Group</div> <div>Autocorrelation plot</div> <div>Pie plot for</div> <div>Series</div> <div>Pie plot for</div> <div>DataFrame</div> <div>Wedge labels</div>                                                                         |

### Plot formatting

#### Plot style

```
- series.plot( style= 'k--')
```

#### Controlling the legend

```
- DataFrame.plot( legend= False)
```

#### Color map

```
- DataFrame.plot( colormap= ' ')
```

#### Scales (logarithmic)

```
- data.plot( logy= True) or logx or  
g
```

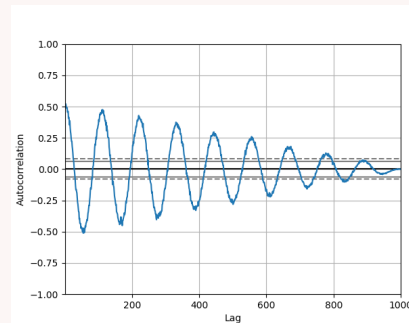
#### Plotting on a secondary y-axis

```
- DataFrame.columns.plot()  
- DataFrame.columns.plot( secondary  
_ y=True)
```

#### Suppressing tick resolution adjustment

```
- data.plot( x_compat= True)
```

j



### Subplots

```
- data.plot( subplots =True)
```

Subplots

```
- data.plot( subplots= True, layout= (2  
,3)
```

Multiple  
axes

It's valid:

figsize and sharex

### Plotting with errors bars

```
DataFrame.plot.bar( yerr= df_err, xerr= df1_err, caps  
ize=3)
```

*df\_err* and *df1\_err* are DataFrame of the errors of X and Y

### Plotting tables

```
- ax.get_xaxis().set_visible( False)  
- DataFrame.plot( table= True, ax=ax)
```

Adds table to:

```
- fig, ax= plt.subplots( 1,1)  
- pdt.table(ax, DataFrame, loc='upper right', colwidths =[0.2, 0.2, 0.  
2])  
- DataFrame.plot(ax= ax)
```



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