

### Terms

The terms will be used to refer to:

- df = Pandas DataFrame
- series = Pandas Series
- data = Pandas DataFrame or Series

### Plot with Series and DataFrames

- series.plot()
- dataframe.plot(x='None', y='None')
- data.plot(kind='')

'bar' or 'barh', 'hist', 'box', 'kde' or 'density', 'hexbin', 'pie' and

### Bar Plot

- data.plot.bar() /.barh()
- data.plot.bar(stacked=True)

### Area Plots

- data.plot.area()
- data.plot.area(stacked=False)

### Pie plot

- series.plot.pie()
- DataFrame.plot.pie(subplots=True)
- series.plot.pie(labels=['A', 'B', 'C'], colors=['r', 'b', 'g'], autopct='%2f')

It's valid:  
fontsize and figsize

### Scatter plot

- DataFrame.plot.scatter(x='', y='')
- ax = df.plot.scatter(x='A', y='B', data\_dir='none', qt\_labels=True)
- df.plot.scatter(x='C', y='D', color='r', label='Group 2', ax=ax)

### Histograms

- data.plot.hist()
- data.plot.hist(stacked=True, bins=10)
- data.plot.hist(orientation='div', stacked=True)
- data.diff().hist(color='g', alpha=0.5)

### Horizontal

### plot

### Stacked

### bar plot

### Box Plots

- data.plot.box()
- dict={'boxes':'', 'whiskers':''}
- data.plot.box(color=dict)
- data.plot.box(vert=False)
- df.boxplot(by='column')
- df.boxplot(column=['', ''], by=[, , ])
- df.groupby('g').boxplot()

The "choice random" is:

- df.plot.random\_choice(['A', 'B'], size=50)

### Hexagonal bin plot

- DataFrame.plot.hexbin(x='N')
- DataFrame.plot.hexbin(x='N')

### Density plot

- data.plot.method()

### Plot for data .CSV

- data = pd.read\_csv('Name on di')
- data.plot(kind='cumulative')
- pdt.andrews\_curves(cumulative)
- pdt.parallel\_coordinates(names')
- pdt.radviz(data, 'column name')

### Plotting Tools from Pandas Plotting

- > import pandas.plotting as pdt
- pdt.scatter\_matrix(axes=(6, 6))
- pdt.lag\_plot(series)
- pdt.autocorrrelation\_plot()
- pdt.bootstrap\_plot(series, green')
- pdt.wedge\_labels()

### 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
```

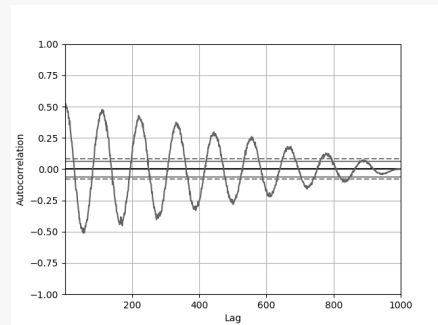
#### Plotting on a secondary y-axis

```
- DataFrame.columns.n1.plot()  
- DataFrame.columns.n2.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)
```

C

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Published 5th June, 2020.

Last updated 5th June, 2020.

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