Cheatography

PandasPlotting Cheat Sheet

by Zayd via cheatography.com/86469/cs/20107/

Terms

The terms will be used to refer to:

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

Plot whith Series and DataFrames

- series.plot()	Series
- dataframe.plot(x='- None',y='None')	DataFrame
- data.plot. <kind>()</kind>	Another method
'bar' or 'barh', 'hist', 'box', 'kde' or 'density', 'hexbin', 'pie' and 'scatter'	Kinds

Bar Plot	
<pre>- data.plot.bar() /.barh()</pre>	Bar plot/ Horizontal plot
- data.plot.bar(s- tacked=True)	Stacked bar plot

Area Plots	
- data.plot.area()	Area plot
- data.plot.area(-	Non-Stacked
stacked=False)	area plot

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

b','g'],	autopct=	
'%.2f')		
lt's valid: fontsize and	d figsize	

Scatter plot

-DataFrame.plot.scat-	Scatter
ter(x=' ', y=' ')	plot
-ax= df.plot.scatter-	
(x='A',y='B', color='None'	,
<pre>label='Group1')</pre>	
-df.plot.scatter(x='C',-	Multiple
y='D', color='Other',	plot
<pre>label='Group2', ax= ax)</pre>	

Histograms	
- data.plot.hist()	Histogram plot
- data.plot.hist(sta-cked=True, bins=10)	Stacked and bins size
<pre>- data.plot.hist(ori- entation='horizontal', cumulative=True)</pre>	Horizontal and cumulative

data.diff().hist(col-

or='g', alpha=0.5)

Box Plots	
- data.plot.box()	Box plot
- dict={'boxes':'	Color of
','whiskers':' ',	Boxes
'medians':' ', 'caps':	
1 1}	
- data.plot.box(color=di	.ct)
- data.plot.box(vert-	Horizontal

1 1}	
- data.plot.box(color=di	ct)
- data.plot.box(vert- =False)	Horizontal box plot
- df.boxplot(by='column')
- df.boxplot(column=[' ',' '], by=[' ',' ']))	Groupings
- df.groupby('g').bo-	for random
xplot()	choice

The choice random is.	
- g=np.random_choice(['-	
A'.'B'l.size=501)	

Hexagonal bin plot

- DataFrame.plot.hex-

bin(x='None',	bin plot
y='None')	
- DataFrame.plot.hex-	add
bin(x='None',	column 'z'
y='None', C= 'z',	for the
reduce_C_function=-	value
np.max)	

- DataFrame.plot.hex-	Gridsize
bin(x='None',	
y='None', gridsize=	
20)	

Density plot

- data.plot.kde() Density plot

Plot for data .CSV

> data= pd.read_csv('Name or direction of data')

Andrews curves

Subplots

histograms

- pdt.andrews_curves(data,
'column name with class names')

Parallel coordinates

- pdt.parallel_coordinates(data,
'column name with class names')

RadViz

- pdt.radviz(data, 'column name
with class name')

Plotting Tools from Pandas Plotting

- > import pandas.plotting as pdt
 Scatter matrix plot
- pdt.scatter_matrix('frame',
 'alpha= 0.5', 'figsize=(6,6)')

Lag plot

- pdt.lag_plot(series)

Autocorrelation plot

- pdt.autocorrelation_plot(series)

Bootstrap plot

- pdt.bootstrap_plot(series, size= 50, samples= 500, color='green')



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Plot formatting

Plot style

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

Controlling the legend

- DataFrame.plot(legend= False)

Color map

- DataFrame.plot(colormap=' ')

Scales (logarithmic)

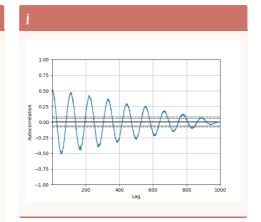
 data.plot(logy= True) or logx or loglog

Plotting on a seconday y-axis

- DataFrame.column1.plot()
- DataFrame.column2.plot(seco-ndary_y=True)

Suppressing tick resolution adjustament

- data.plot(x_compat= True)



Subplots

data.plot(subplots- Subplots
 =True)
 data.plot(subplots- Multiple
 True, layout- (2,3) axes

It's valid:

figsize and sharex

Plotting with errors bars

DataFrame.plot.bar(yerr=df_err,
xerr= df1_err, capsize=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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