

Cheatography

B1_zorianflowers_week08_cheatsheet Cheat Sheet by zflow via cheatography.com/127367/cs/24779/

Pandas		Aggregation and Grouping	Matplotlib	Matplotlib (cont)
import pandas as pd	pd.series([values])	Aggregation	count() Total number of items	Other ways for plt
pd	ad = {}	Functions	first(), last() First and last item	plt.xlabel() → ax.set_xlabel()
Retrieving Values	area["a"] To see all keys: area.keys() data.items()		mean(), median() Mean and median	plt.ylabel() → ax.set_ylabel()
Dataframe as dictionary	area = pd.Series({...}) data = pd.DataFrame({"area":area})		min(), max() Minimum and maximum	lt.xlim() → ax.set_xlim()
Opening data	import pandas as pd import numpy as np dat = np.genfromtxt('phoneBook.csv', delimiter = ',', skip_header=1, dtype='<U16')		std(), var() Standard deviation and variance	plt.ylim() → ax.set_ylim()
Grouping	index = pd.MultiIndex.from_tuples(index) pop = pop.reindex(index) pop pop[:, 2010]	Grouping	mad() Mean absolute deviation prod() Product of all items sum() Sum of all items	plt.title() → ax.set_title()
Merging and Joining		Pivot Tables	Histograms	fig = plt.figure() ax = plt.axes() ax.hist(data);
Merging	pd.merge() df = pd.merge()	Pivot Tables by Hand	Require groupby	
Many to one	Duplicate entries display('df3', 'df4', 'pd.merge(df3, df4)')	Pivot	name.pivot_table("what is taking the action", index = "groupby row", columns = "groupbycol")	plt.plot(x,np.sin(x-.5),color='g',label = "sin(x-0.5)") plt.plot(x,np.sin(x-1),color='pink', label = "sin(x-1)")
Merge Key	Add on = "key column name"	Aggregation	name.pivot_table(index = "groupby row", columns = "-groupbycol", aggfunc={'taking action':sum, 'taking action':'mean'})	plt.plot(x,np.cos(x-0.5),color='c',lineStyle='--',label = "-cos(x-0.5)") plt.legend() plt.show()
Drop	.drop('name', axis=1)	Functions		Adding limits
				plt.xlim(-5,12) plt.ylim(-2,2)
				Scatter Plot
				x = np.random.randint(-1000,1000,150) y = np.random.randint(-1000,1000,150) plt.scatter(x,y) or plt.plot(x,y,'o');



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