Pandas Library Cheat Sheet

by suchismita via cheatography.com/122998/cs/23730/

Pandas Data Structure

Series	A one-dimensional labeled array capable of holding any data type	>>> s = pd.Series([3, -5, 7, 4], index=['a', 'b', 'c', 'd'])
DataFrame	A two-dimensional labeled data structure with columns of potentially different types	>>> data = {'Country': ['Belgium', 'India', 'Brazil'], 'Capital': ['Brussels', 'New Delhi', 'Brasília'], 'Population': [11190846, 1303171035, 207847528]}

I/O

Read and Write to CSV	>>> pd.read_csv(, header=None, nrows=5)
	>>> df.to_csv('myDataFrame.csv')
Read and Write to Excel	>>> pd.read_excel( )
	>>> df.to_excel('dir/myDataFrame.xlsx', sheet_name='Sheet1')

Applying Functions

Apply function element-wise	>>> f = lambda x: x*2
	>>> df.apply(f)
	>>> df.applymap(f)

Basic Information

(rows,columns)	>>> df.shape
Describe index	>>> df.index
Describe DataFrame columns	>>> df.columns
Info on DataFrame	>>> df.info()

Data Alignment

NA values are introduced in the indices that don't overlap:	>>> s3 = pd.Series([7, -2, 3], index=['a', 'c', 'd'])
	>>> s + s3 a 10.0 b NaN c 5.0 d 7.0

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By **suchismita**
cheatography.com/suchismita/

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