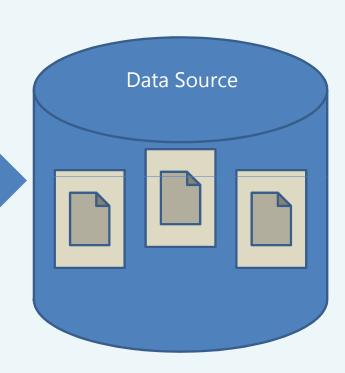


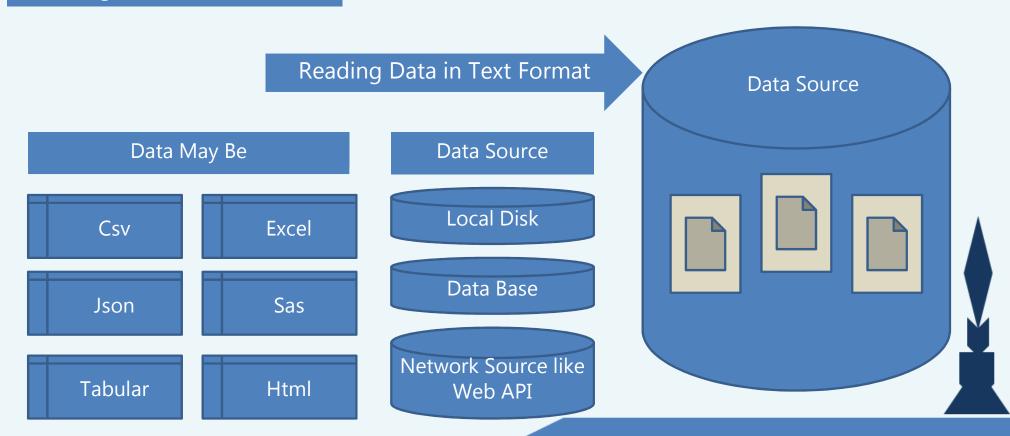
Reading Data in Text Format

Reading Data in Text Format





Reading Data in Text Format



Reading Data in Text Format

Reading Data in Text Format

Functions For Reading Tabular Data as a DataFrame

read_csv

read_table

read_sql

read_excel

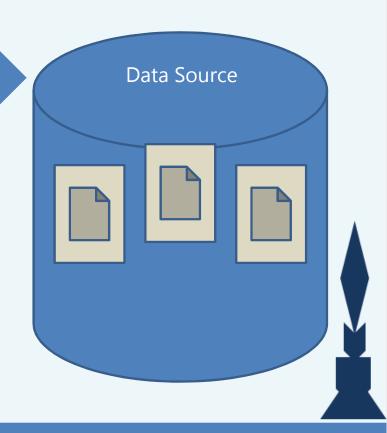
read_sas

read_pickle

read_json

read_html

read_clipbord



Reading Data in Text Format

Data Source

To print the raw contents of the file From Local Source (Like PCs D drive) to the screen.

!type D:/Pandas_example/Ex_1

!cat D:/Pandas_example/Ex_1

Reading Data in Text Format

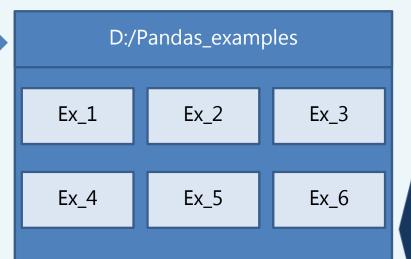
To read the 'csv files', 'text files with variable amount of whitespace' into the Pandas DataFrame.

Df = pd.read_csv('File Path')

Df = pd.read_csv('D:/Pandas_examples/Ex_1.csv')

Df = read_table('D:/Pandas_examples/Ex_2.csv', sep=', ')

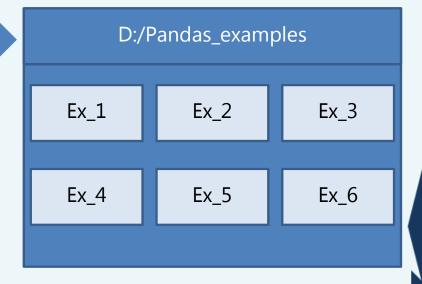
Df = pd.read_table(' D:/Pandas_examples/Ex_3.txt ',
sep='\s+')



Reading Data in Text Format

Pandas provides many functional arguments to read different types of files.

Argument	Argument
path	skiprows
sep	na_values
header	encoding
index_col	nrows
names	skip_footer



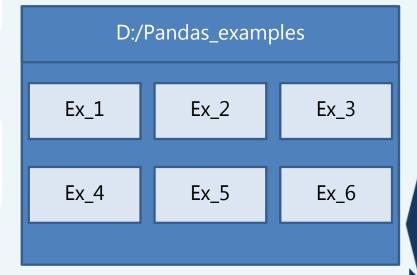
Reading Text Files in Pieces

To read small number of Rows

pd.read_csv('D:/Pandas_examples/Ex_4.csv', nrows=5)

To read a file in pieces, We can specify a chunk size as a Number of Rows

 pd.read_csv('D:/Pandas_examples/Ex_4.csv', chunksize=1000)



Writing Data To A Text File

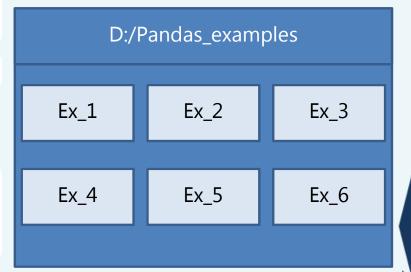
To Export data from a comma separated text file to csv file

Pandas provides 'to_csv' method to export the data

Ex_5.to_csv('D:/Pandas_examples/Ex_6.csv', sep=',')

It Provides many other Optional Arguments To Control How We can export the Data with different possibilities

• Ex.: we can use sep='|' instead of sep=','



Working With Delimited Data

Data Source

In order to read a csv file use Python's built-in csv module

'csv.reader'

To write delimited files manually, you can use 'csv.writer'

Other File Handling Methods

JSON

XML & HTML

Binary Data Formats

HDF5 FORMAT

EXCEL FILE

