

Importing Data in Python I Cheat Sheet

by issambd via cheatography.com/88527/cs/20287/

Importing Text Files I	
<pre>open(file_name, 'r')</pre>	open the file
file.read()	read the file
file.close()	close the file
file.closed()	check if the file is closed

It is a good practice to close the file after reading it when using 'open'

<pre>with open(file_name) as file :</pre>	open the file
file.read()	read the file
file.readline()	read line by line

When using the 'with' statement there is no need to close the file

Importing Flat Files wi	th Numpy I
import numpy as	import numpy
np	
<pre>np.loadtxt(fil- e_name,</pre>	importing the file
delimiter= ' ')	
skiprows=1	argument to skip
	a specific row
usecols=[0, 2]	argument to only show specific columns
`dtype = str'	argument to import the data as string
loadtxt only works with numeric data	

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nu np.recfromcsv(file, op	port mpy
delimiter=",", names=- the	
	en e file
np.genfromtxt(file, op delimiter=',', names=- the True, dtype=None)	en e file

with the functions recfromcsv() and genfromtxt() we are able to import data with different types

Importing Stata Files	
import pandas as pd	importing pandas
<pre>df = pd.read_stata('- disarea.dta')</pre>	reading the stata file

Importing F	lat Files With Pandas
import pandas as pd	import pandas
<pre>pd.re- ad_csv- (file)</pre>	open csv file
nrows=5	argument for the number of rows to load
heade- r=None	argument for no header
sep='\t'	argument to set delimiter
comme- nt='#'	argument takes characters that comments occur after in the file
na_va- lues='-	argument to recognize a string as a NaN Value

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Nothing'

Import pickled files	
import pickle	import the library
with open(file_name,	open file
'rb') as file :	
pickle.load(file)	read file

Importing Spreadshee	et Files
import pandas as pd	importing pandas
<pre>pd.ExcelFile(f- ile)</pre>	opening the file
xl.sheet_names	exporting the sheet names
xl.parse(sheet-	loading a sheet to
_name/index)	a dataframe
skiprows=[index]	skipping a specific row
names=[List of	naming the sheet's
Names]	columns
usecols=[0,]	parse spesific
	columns
skiprows, names and useclos are all	
arguments of the function parse()	

Importing SAS Files	
from sas7bdat	importing
import SAS7BDAT	sas7bdat
	library
import pandas as pd	importing
	pandas
with SAS7BDAT('fi-	opening the
<pre>le_name') as file:</pre>	file
file.to_data_f-	loading the file
rame()	as dataframe
	·

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Importing HDF5 files	
import numpy as	import numpy
np	
import h5py	importing the h5py
	library
h5py.File(file,	reading the file
'r')	

Importing MATLAB files	
import scipy.io	importing scipy.io
<pre>cipy.io.loadmat('- file_name')</pre>	reading the file

Relational databases I	
import pandas as pd	importing pandas
<pre>from sqlalchemy import create_engine</pre>	importing the necessary library
<pre>engine = create_engin- e('databasetype:///na- me.databasetype')</pre>	creating an engine
<pre>con = engine.connect()</pre>	to the engine
<pre>rs = con.execu- te('SELECT * FROM Album')</pre>	performe query
<pre>df = pd.DataFrame- (rs.fetchall())</pre>	save as a dataframe
df.columns = rs.keys	set columns names
con.close()	close the connection

Relational databases II		
<pre>engine = create_en- gine('databaset- ype:///name.databa- setype')</pre>	creating an engine	
<pre>with engine.connect() as con:</pre>	connecting to the engine	
<pre>rs = con.execute('sql code')</pre>	performe query	
<pre>df = pd.DataFrame- (rs.fetchmany(size- =3))</pre>	load a number of rows as a dataframe	
With 'open' you don't have to close the connection at the end		

Relational databases III		
engine = create_engin-	creating	
e('databasetype:///na-	an	
me.databasetype')	engine	
df = pd.read_sql_que-	performe	
ry('SQL code', engine)	query	
Fastest way to connect to a database and		
perform query		



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The best practice is to close the connection

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