### Cheatography

Importing Data in Python I Cheat Sheet
by issambd via cheatography.com/88527/cs/20287/

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

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

Importing Text Files II	
with open(file_name) as file :	open the file
<pre>file.read()</pre>	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 wit	h Numpy I
import numpy as	import numpy
np	
np.loadtxt(fil-	importing the file
e_name,	
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	



#### By **issambd**

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### Importing Flat Files with Numpy II

import numpy as np	import numpy	
np.recfromcsv(file, delimiter=",", names=- True, dtype=None)	open the file	
np.genfromtxt(file, delimiter=',', names=- True, dtype=None)	open the file	
with the functions recfromcsv() and genfr- omtxt() we are able to import data with different types		

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

Importing FI	at Files With Pandas
import	import pandas
pandas	
as pd	
pd.re-	open csv file
ad_csv-	
(file)	
nrows=5	argument for the number of
	rows to load
heade-	argument for no header
r=None	
sep='\t'	argument to set delimiter
comme-	argument takes characters
nt='#'	that comments occur after in
	the file
na_va-	argument to recognize a
lues='-	string as a NaN Value
Nothing'	

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### Import pickled files

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

#### Importing Spreadsheet Files import pandas as importing pandas pd pd.ExcelFile(fopening the file ile) xl.sheet\_names exporting the sheet names xl.parse(sheetloading a sheet to a dataframe \_name/index) skipping a specific skiprows=[index] row names=[List of naming the sheet's N

Names]	columns
usecols=[0,]	parse spesific columns

skiprows, names and useclos are all arguments of the function parse()

### Importing SAS Files

from sas7bdat import SAS7BDAT	importing sas7bdat library
import pandas as pd	importing pandas
with SAS7BDAT('fi- le_name') as file:	opening the file
<pre>file.to_data_f- rame()</pre>	loading the file 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
cipy.io.loadmat('- file_name')	reading the file

# Relational databases I

import pandas as pd	importing pandas
from sqlalchemy import create_engine	importing the necessary library
<pre>engine = create_engin- e('databasetype:///na- me.databasetype')</pre>	creating an engine
<pre>con = engine.connect()</pre>	connecting to the engine
rs = con.execu- te('SELECT * FROM Album')	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
The best practice is to close the	connection

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Relational databases II	
engine = create_en- gine('databaset- ype:///name.databa- setype')	creating an engine
with engine.connect() as con:	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

perform query

- <u>1</u> ( <u>2</u> ,	ery
ry('SQL code', engine) qu	
df = pd.read_sql_que- pe	rforme
me.databasetype') en	gine
e('databasetype:///na- an	
engine = create_engin- cre	eating