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PYTHON FOR DATA SCIENCE

IMPORTING DATA

CHEAT SHEET PART- 3

Pickled Files

```
>>> import pickle
>>> with open('pickled_fruit.pkl', 'rb') as file:
pickled_data = pickle.load(file)
```

HDF5 Files

```
>>> import h5py
>>> filename = 'H-H1_LOSC_4_v1-815411200-4096.hdf5'
>>> data = h5py.File(filename, 'r')
```

Matlab Files

```
>>> import scipy.io
>>> filename = 'workspace.mat'
>>> mat = scipy.io.loadmat(filename)
```

EXPLORING DICTIONARIES

Accessing Elements with Functions

`>>> print(mat.keys())`	Print dictionary keys
`>>> for key in data.keys():print(key)`	Print dictionary keys

meta quality strain

`>>> pickled_data.values()`	Return dictionary values
`>>> print(mat.items())`	Returns items in list format of (key, value) tuple pairs

Accessing Data Items with Keys

```
>>> for key in data['meta'].keys()
print(key)
```

Explore the HDF5 structure

```
Description
DescriptionURL
Detector
Duration
GPSstart
Observatory
Type
UTCstart
```

```
>>> print(data['meta']['Description'].value)
```

Retrieve the value for a key

NAVIGATING YOUR FILESYSTEM

Magic Commands

`!ls`	List directory contents of files and directories
`%cd ..`	Change current working directory
`%pwd`	Return the current working directory path

os Library

`>>> import os`
`>>> path = "/usr/tmp"`
`>>> wd = os.getcwd()`
	Store the name of current directory in a string

`>>> os.listdir(wd)`	Output contents of the directory in a list
`>>> os.chdir(path)`	Change current working directory
`>>> os.rename ("test1.txt", "test2.txt")`	Rename a file
`>>> os.remove ("test1.txt")`	Delete an existing file
`>>> os.mkdir("newdir")`	Create a new directory

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