Data Loading, Storage

CSV: Comma-separated values

File without header

```
In []: pd.read_csv('Files/student.csv', header=None)
In []: pd.read_csv('Files/student.csv', names=['name','Python', 'C++', 'Java'])
```

skiprows

```
In []: M pd.read_csv('Files/age.csv')
In []: M pd.read_csv('Files/age.csv', skiprows=[0])
In []: M pd.read_csv('Files/age.csv', header=[1])
```

csv.reader

```
In [ ]: ▶ import csv
```

read_table

```
In []: M pd.read_table('Files/score.csv')
In []: M pd.read_table('Files/score.csv', sep=',')
In []: M pd.read_table('Files/mytext.txt', sep='\s+')
```

nrows, chunksize

sys.stdout

```
In [ ]: | import sys
In [ ]: | mydata = pd.read_csv('Files/score.csv')
```

df.to_excel

JSON: JavaScript Object Notation

```
In [ ]:
       | import json
In [ ]:
       M | mystr = """
            "FirstName": "Taha",
            "Courses" : [{"Name": "Python", "Score": 18}, {"Name": "C++", "Score": 17
         }
In [ ]:
      mydict = json.loads(mystr)
         frame = pd.DataFrame(mydict['Courses'], columns=['Name', 'Score'])
         frame
In [ ]:
       In [ ]:
       ▶ frame.to_json(orient='values')
In [ ]:
       In [ ]:
       In [ ]:
       pd.read_json(_, orient='split')
```

HTML: Hypertext Markup Language

```
In [ ]:
      #pip install lxml
In [ ]:
       #pip install html5lib
        mystr = """
In [ ]:
       <thead>
           name
             score
            </thead>
          Ali
             12
           Sara
             18
           In [ ]:
      ▶ lst = pd.read_html(mystr)
In [ ]:
       ▶ lst[0]
In [ ]:
       | r = pd.read_html('Files/test.html')
         r[0]
In [ ]:

  | r[0].info()

In [ ]:
       x = pd.read_html(u , match='Election results from statewide races')
        x[0].head()
      PKL file
In [ ]:
       frame = pd.read_csv('Files/score.csv')
         frame
In [ ]:
       frame.to_pickle('Files/test.pkl')
```

Hierarchical Data Format (HDF)

requests.get

```
to_csv
read_csv

read_table

to_excel
read_excel

to_json
read_json

to_pickle
read_pickle
```

to_hdf
read_hdf
read_html

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<u>Codes and Projects (click here) (https://github.com/Amin-Golzari-Oskouei/Python-Programming-Course-Advanced-2021) slides and videos (click here) (https://drive.google.com/drive/folders/1Dx3v7fD1QBWL-MNP2hd7ilxaRbeALkkA)</u>