Data Input and Output

Data Science Developer



Outline

- import data from CSV file
- import data from Excel file
- import data from web or HTML
- import data from JSON



Using Pandas

```
In [1]: import pandas as pd
```



CSV Input



CSV Output

```
In [3]: df.to_csv('example',index=False)
```



Excel Input



Excel Output

```
In [5]: df.to_excel('Excel_Sample.xlsx', sheet_name='Sheet1')
```



HTML Input

```
In [6]: df = pd.read_html('http://www.fdic.gov/bank/individual/failed/banklist.html')
```

In [8]: df[0].head()

Out[8]:

	Bank Name	City	ST	CERT	Acquiring Institution	Closing Date	Updated Date
0	Washington Federal Bank for Savings	Chicago	IL	30570	Royal Savings Bank	December 15, 2017	February 21, 2018
1	The Farmers and Merchants State Bank of Argonia	Argonia	KS	17719	Conway Bank	October 13, 2017	February 21, 2018
2	Fayette County Bank	Saint Elmo	IL	1802	United Fidelity Bank, fsb	May 26, 2017	July 26, 2017
3	Guaranty Bank, (d/b/a BestBank in Georgia & Mi	Milwaukee	WI	30003	First-Citizens Bank & Trust Company	May 5, 2017	March 22, 2018
4	First NBC Bank	New Orleans	LA	58302	Whitney Bank	April 28, 2017	December 5, 2017



JSON Output

```
df = pd.DataFrame({
    'nama': ['Andi','Budi','Caca'],
    'umur': [24,18,30],
    'pekerjaan': ['Front-End Developer','Back-End Developer', 'Mobile Developer']
})
df.head()
executed in 21ms, finished 14:18:55 2019-12-08
```

	nama	umur	pekerjaan
0	Andi	24	Front-End Developer
1	Budi	18	Back-End Developer
2	Caca	30	Mobile Developer

```
df.to_json('data.json',orient='records')
executed in 4ms, finished 14:20:31 2019-12-08
```



JSON Input

```
df = pd.read_json('data.json', orient='records')
df.head()
executed in 14ms, finished 14:23:04 2019-12-08
```

	nama	pekerjaan	umur
0	Andi	Front-End Developer	24
1	Budi	Back-End Developer	18
2	Caca	Mobile Developer	30



Read Documentation For More Info

https://pandas.pydata.org/pandas-docs/stable/reference/io.html

