

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

## Read a .csv from a URL with Pandas

Target website: <https://www.football-data.co.uk/data.php> (<https://www.football-data.co.uk/data.php>)

```
In [2]: # reading 1 csv file from the website
df_premier21 = pd.read_csv('https://www.football-data.co.uk/mmz4281/2122/E0.csv')
```

```
In [3]: # showing dataframe
df_premier21
```

```
Out[3]:
```

	Div	Date	Time	HomeTeam	AwayTeam	FTHG	FTAG	FTR	HTHG	HTAG	...	AvgC
0	E0	13/08/2021	20:00	Brentford	Arsenal	2	0	H	1	0	...	
1	E0	14/08/2021	12:30	Man United	Leeds	5	1	H	1	0	...	
2	E0	14/08/2021	15:00	Burnley	Brighton	1	2	A	1	0	...	
3	E0	14/08/2021	15:00	Chelsea	Crystal Palace	3	0	H	2	0	...	
4	E0	14/08/2021	15:00	Everton	Southampton	3	1	H	0	1	...	
...	...	...	...	...	...	...	...	...	...	...	...	
210	E0	23/01/2022	14:00	Arsenal	Burnley	0	0	D	0	0	...	
211	E0	23/01/2022	14:00	Crystal Palace	Liverpool	1	3	A	0	2	...	
212	E0	23/01/2022	14:00	Leicester	Brighton	1	1	D	0	0	...	
213	E0	23/01/2022	16:30	Chelsea	Tottenham	2	0	H	0	0	...	
214	E0	05/02/2022	18:00	Burnley	Watford	0	0	D	0	0	...	

215 rows × 106 columns

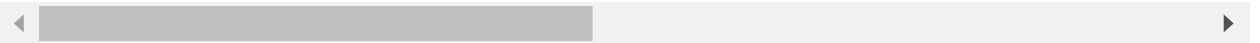
```
In [4]: # rename columns
df_premier21 = df_premier21.rename(columns={'Date': 'date',
                                             'HomeTeam': 'home_team',
                                             'AwayTeam': 'away_team',
                                             'FTHG': 'home_goals',
                                             'FTAG': 'away_goals'})
```

```
In [5]: # show dataframe
df_premier21
```

```
Out[5]:
```

	Div	date	Time	home_team	away_team	home_goals	away_goals	FTR	HTHG	HTA
0	E0	13/08/2021	20:00	Brentford	Arsenal	2	0	H	1	
1	E0	14/08/2021	12:30	Man United	Leeds	5	1	H	1	
2	E0	14/08/2021	15:00	Burnley	Brighton	1	2	A	1	
3	E0	14/08/2021	15:00	Chelsea	Crystal Palace	3	0	H	2	
4	E0	14/08/2021	15:00	Everton	Southampton	3	1	H	0	
...	...	...	...	...	...	...	...	...	...	...
210	E0	23/01/2022	14:00	Arsenal	Burnley	0	0	D	0	
211	E0	23/01/2022	14:00	Crystal Palace	Liverpool	1	3	A	0	
212	E0	23/01/2022	14:00	Leicester	Brighton	1	1	D	0	
213	E0	23/01/2022	16:30	Chelsea	Tottenham	2	0	H	0	
214	E0	05/02/2022	18:00	Burnley	Watford	0	0	D	0	

215 rows × 106 columns



Type *Markdown* and LaTeX:  $\alpha^2$

## Read HTML

Target Website:

[https://en.wikipedia.org/wiki/List\\_of\\_The\\_Simpsons\\_episodes\\_\(seasons\\_1%E2%80%939320\)](https://en.wikipedia.org/wiki/List_of_The_Simpsons_episodes_(seasons_1%E2%80%939320))  
[https://en.wikipedia.org/wiki/List\\_of\\_The\\_Simpsons\\_episodes\\_\(seasons\\_1%E2%80%939320\)](https://en.wikipedia.org/wiki/List_of_The_Simpsons_episodes_(seasons_1%E2%80%939320))

```
In [6]: simpsons = pd.read_html('https://en.wikipedia.org/wiki/List_of_The_Simpsons_episodes')
```

In [7]: `simpsons[1].head()`

Out[7]:

	No.overall	No. inseason	Title	Directed by	Written by	Original air date	Prod.code	viewers
0	1	1	"Simpsons Roasting on an Open Fire"	David Silverman	Mimi Pond	December 17, 1989	7G08	
1	2	2	"Bart the Genius"	David Silverman	Jon Vitti	January 14, 1990	7G02	
2	3	3	"Homer's Odyssey"	Wesley Archer	Jay Kogen & Wallace Wolodarsky	January 21, 1990	7G03	
3	4	4	"There's No Disgrace Like Home"	Gregg Vanzo & Kent Butterworth	Al Jean & Mike Reiss	January 28, 1990	7G04	
4	5	5	"Bart the General"	David Silverman	John Swartzwelder	February 4, 1990	7G05	