In [1]:

```python
#importing necessary packages
import pandas as pd
from IPython.display import display #to display tables beautiful
```

Direct data import from the web

In [2]:

```python
df = pd.read_csv("http://s.anilz.net/wb_energy")
display(df.head())

dx = pd.read_csv("https://data.ny.gov/api/views/d6yy-54nr/rows.csv")
display(dx.head())
```

	year	country	ccode	ele_rural	ele_total	ele_urban	en_int	ren_ele	ren_con	tot_ele	tfec
0	1990	Afghanistan	AFG	NaN	0.010000	52.036976	1.884113	764.0	6312.3920	1128.0	39639.42002
1	1990	Albania	ALB	100.000000	100.000000	100.000000	7.912243	2848.0	20429.1800	3296.0	80057.64499
2	1990	Algeria	DZA	96.392315	98.271378	100.000000	3.500935	135.0	811.7773	16104.0	458040.44170
3	1990	American Samoa	ASM	NaN	NaN	NaN	NaN	0.0	0.0000	100.0	306.00000
4	1990	Andorra	AND	100.000000	100.000000	100.000000	NaN	120.0	952.1450	120.0	6670.69500

	Draw Date	Winning Numbers	Multiplier
0	09/26/2020	11 21 27 36 62 24	3.0
1	09/30/2020	14 18 36 49 67 18	2.0
2	10/03/2020	18 31 36 43 47 20	2.0
3	10/07/2020	06 24 30 53 56 19	2.0
4	10/10/2020	05 18 23 40 50 18	3.0

Using pandas package for static website scraping

Example 1. share price scraping

In [3]:

```
tables = pd.read_html('https://www.sharesansar.com/today-share-price')
print(len(tables))
```

```
1
```

In [4]:

```
#storing the table in a pandas dataframe
df1 = tables[0]
df1.head()
```

Out[4]:

	S.No	Symbol	Conf.	Open	High	Low	Close	VWAP	Vol	Prev. Close	...	Trans.	Diff	Range	Diff %	Range %	VWAP %	12 Day
0	1	ACLBSL	39.42	983.1	998.0	970.0	986.0	979.31	5844.0	1000.0	...	97	-14.0	28.0	-1.40	2.89	0.68	723.1
1	2	ADBL	49.67	267.9	267.9	261.5	261.5	263.74	19809.0	268.0	...	152	-6.5	6.4	-2.43	2.45	-0.86	242.3
2	3	ADBLD83	61.57	1061.0	1101.5	1061.0	1101.5	1070.29	350.0	1080.0	...	8	21.5	40.5	1.99	3.82	2.83	1027.3
3	4	AHL	43.71	505.0	508.9	492.0	500.0	499.00	16996.0	497.0	...	139	3.0	16.9	0.60	3.43	0.20	438.1
4	5	AHPC	44.72	161.0	161.0	156.0	156.0	157.69	118322.0	157.9	...	375	-1.9	5.0	-1.20	3.21	-1.09	194.9

5 rows × 21 columns

In [5]:

```
#filtering upper and lower circuit stock

df1 = df1[(df1['Diff %'] > 9) | (df1['Diff %'] < -9)]
```

```
df1 = df1.sort_values(by="Diff %", ascending=False)
display(df1)
df1.to_csv("example1-python.csv", index=False)
```

	S.No	Symbol	Conf.	Open	High	Low	Close	VWAP	Vol	Prev. Close	...	Trans.	Diff	Range	Diff %	Range %	VWAP %	120 Days
241	242	SAMAJ	65.63	2151.0	2409.0	2151.0	2409.0	2301.38	10537.0	2190.0	...	160	219.0	258.0	10.0	11.99	4.47	1434.82
101	102	KBSH	51.72	1695.4	1695.4	1557.0	1557.0	1562.78	12879.0	1730.0	...	203	-173.0	138.4	-10.0	8.89	-0.37	1015.12
139	140	MKLB	51.89	1836.0	1836.0	1620.0	1620.0	1627.02	1405.0	1800.0	...	36	-180.0	216.0	-10.0	13.33	-0.43	868.11

3 rows × 21 columns

Example 2. Forex from NRB

In [6]:
```
tables = pd.read_html("https://www.nrb.org.np")
print(len(tables))
```

```
2
```

In [7]:
```
df1 = tables[0]
df2 = tables[1]

display(df1)
display(df2)
```

	Currency	Buy	Sell
0	USD	133.40	134.00
1	EUR	142.95	143.59
2	GBP	169.03	169.79
3	AUD	88.08	88.47
4	SGD	98.61	99.06
5	JPY	8.46	8.50

	Last Updated	13/06/2024	12/06/2024
0	Total Deposits (in NPR Billion)	6242.00	6235.00
1	Commercial Banks Total Deposits (in NPR Billion)	5525.00	5519.00
2	Other BFIs Total Deposits (in NPR Billion)	717.00	716.00
3	Total Lending (in NPR Billion)	5133.00	5131.00
4	Commercial Banks Total Lending (in NPR Billion)	4542.00	4541.00
5	Other BFIs Total Lending (in NPR Billion)	591.00	591.00
6	CD Ratio (in %)	80.08	80.14
7	Interbank Interest Rate LCY - Weighted Avg. (...	2.95	2.97

```
In [8]:  #keeping USD and JPY only
         filtered_df1 = df1[(df1['Currency']=='USD') | (df1['Currency']=='JPY')]
         display(filtered_df1)
         filtered_df1.to_csv('example2-python.csv', index=False)
```

	Currency	Buy	Sell
0	USD	133.40	134.0
5	JPY	8.46	8.5

Practice 1. Web-scrape the Historical ranking table from https://en.wikipedia.org/wiki/ICC_Men%27s_T20I_Team_Rankings and save it as practice1.csv

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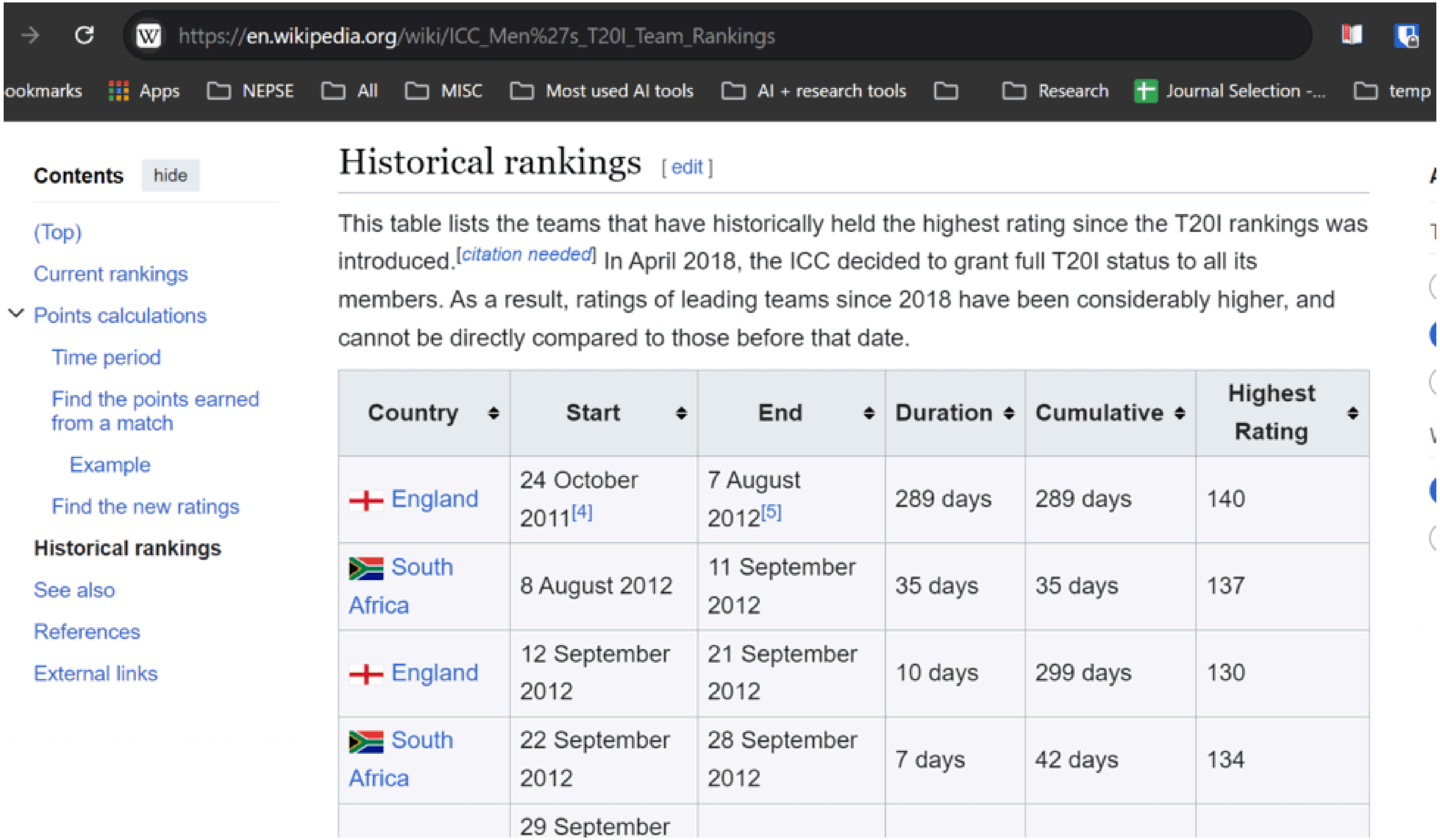

Historical rankings [edit]

This table lists the teams that have historically held the highest rating since the T20I rankings was introduced.[citation needed] In April 2018, the ICC decided to grant full T20I status to all its members. As a result, ratings of leading teams since 2018 have been considerably higher, and cannot be directly compared to those before that date.

Country	Start	End	Duration	Cumulative	Highest Rating
England	24 October 2011[4]	7 August 2012[5]	289 days	289 days	140
South Africa	8 August 2012	11 September 2012	35 days	35 days	137
England	12 September 2012	21 September 2012	10 days	299 days	130
South Africa	22 September 2012	28 September 2012	7 days	42 days	134
	29 September				