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1 # web scraping
2 !pip install gazpacho
3

1 from gazpacho import Soup
2 import requests
3 import pandas as pd
4 import numpy as np

1 from gazpacho import Soup
2 import requests
3 import pandas as pd
4 import numpy as np
5 url = "https://www.animenewsnetwork.com/encyclopedia/ratings-anime.php?top50=popular&n=100"
6 html = requests.get(url)
7 top_100 = Soup(html.text)

1 # Find anime name
2 titles = top_100.find("a", {"href" : "/encyclopedia/anime.php"})
3 titles[0:5]

[<a href="/encyclopedia/anime.php">Anime</a>,
 <a href="/encyclopedia/anime.php?id=2960">Fullmetal Alchemist (TV)</a>,
 <a href="/encyclopedia/anime.php?id=6592">Death Note (TV)</a>,
 <a href="/encyclopedia/anime.php?id=13">Cowboy Bebop (TV)</a>,
 <a href="/encyclopedia/anime.php?id=377">Spirited Away (movie)</a>]

1 # Clean titles
2 # Delete non anime name
3 clean_titles =[title.strip() for title in titles ]
4 clean_titles.pop(0)
5 clean_titles[0:5]

['Fullmetal Alchemist (TV)',
 'Death Note (TV)',
 'Cowboy Bebop (TV)',
 'Spirited Away (movie)',
 'Princess Mononoke (movie)']

1 # Find rating
2 ratings = top_100.find("td", {"class" : "r"})
3 ratings[0:6]

[<td class="r">rating</td>,
 <td class="r">nb. votes</td>,
 <td class="r">8.72</td>,
 <td class="r">13523</td>,
 <td class="r">8.86</td>,
 <td class="r">13107</td>]

1 # Clean rating
2 clean_ratings = [rating.strip() for rating in ratings]
3 clean_ratings.pop(0)
4 clean_ratings.pop(0)
5 clean_ratings[0:10]

['8.72',
 '13523',
 '8.86',
 '13107',
 '8.93',
 '12444',
 '8.96',
 '10706',
 '8.93',
 '9974']

1 # In the list, it contain rating and number vote.
2 # So, we have to extract and create new list for that.
3 # Extract only rating
4 float_numbers = [float(number) for number in clean_ratings]
5 filtered_ratings = [rating for rating in float_numbers if rating <= 10]
6

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7 # Extract only number vote
8 int_numbers = [int(float(number)) for number in clean_ratings]
9 filtered_number_vote = [number for number in int_numbers if number >10]
10
11

1 df = pd.DataFrame(data = {
2     "titles" : clean_titles,
3     "rating" : filtered_ratings,
4     "number_vote" : filtered_number_vote
5 })
6
7 df.head()

```

	titles	rating	number_vote	
0	Fullmetal Alchemist (TV)	8.72	13523	
1	Death Note (TV)	8.86	13107	
2	Cowboy Bebop (TV)	8.93	12444	
3	Spirited Away (movie)	8.96	10706	
4	Princess Mononoke (movie)	8.93	9974	

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1 # Further more, we want to extract type of anime in parentheses
2 # Extract type into the new column
3 df["Type"] = df["titles"].str.extract(r'\((.*)\)', expand =False)
4
5 # Remove () in titles
6 df['titles'] = df['titles'].str.replace(r'\(.*?\)', '').str.strip()
7
8 df.head(10)

```

<ipython-input-17-8598cdf67f3e>:6: FutureWarning: The default value of regex will change from True to F
df['titles'] = df['titles'].str.replace(r'\(.*?\)', '').str.strip()



	titles	rating	number_vote	Type	
0	Fullmetal Alchemist	8.72	13523	TV	
1	Death Note	8.86	13107	TV	
2	Cowboy Bebop	8.93	12444	TV	
3	Spirited Away	8.96	10706	movie	
4	Princess Mononoke	8.93	9974	movie	
5	Melancholy of Haruhi Suzumiya	8.56	10225	The) Melancholy of Haruhi Suzumiya (TV	
6	Elfen Lied	8.29	10530	TV	
7	Neon Genesis Evangelion	8.32	10372	TV	
8	Code Geass: Lelouch of the Rebellion	8.85	9308	TV	
9	Bleach	7.94	9242	TV	

```

1 # There are still wrong values in index = 5
2 # Because, the original name is (The) Melancholy of Haruhi Suzumiya (TV)
3 # It was extract by regex
4 # So, just replace it.
5 df.iloc[5,3] = "TV"
6 df.iloc[5,0] = "(The) Melancholy of Haruhi Suzumiya"
7
8 df.head(10)

```



	titles	rating	number_vote	Type	
0	Fullmetal Alchemist	8.72	13523	TV	
1	Death Note	8.86	13107	TV	
2	Cowboy Bebop	8.93	12444	TV	
3	Spirited Away	8.96	10706	movie	
4	Princess Mononoke	8.93	9974	movie	
5	(The) Melancholy of Haruhi Suzumiya	8.56	10225	TV	
6	Elfen Lied	8.29	10530	TV	
7	Neon Genesis Evangelion	8.32	10372	TV	
8	Code Geass: Lelouch of the Rebellion	8.85	9308	TV	
9	Bleach	7.94	9242	TV	

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✓ 0s completed at 10:10 PM

