

WEB SCRAPPING

Suppose you want some information from a website? Let's say a paragraph on Donald Trump! What do you do? Well, you can copy and paste the information from Wikipedia to your own file. But what if you want to get large amounts of information from a website as quickly as possible? Such as large amounts of data from a website to train a Machine Learning algorithm? In such a situation, copying and pasting will not work! And that's when you'll need to use Web Scrapping.

Web scraping, web harvesting, or web data extraction is data scraping used for extracting data from websites. Web scraping software may directly access the World Wide Web using the Hypertext Transfer Protocol or a web browser.

Web scraping is an automatic method to obtain large amounts of data from websites. Most of this data is unstructured data in an HTML format which is then converted into structured data in a spreadsheet or a database so that it can be used in various applications. There are many different ways to perform web scraping to obtain data from websites.

How Web Scrapers Work?

Web Scrapers can extract all the data on particular sites or the specific data that a user wants. Ideally, it's best if you specify the data you want so that the web scraper only extracts that data quickly. For example, you might want to scrape an Amazon page for the types of juicers available, but you might only want the data about the models of different juicers and not the customer reviews.

So, when a web scraper needs to scrape a site, first the URLs are provided. Then it loads all the HTML code for those sites and a more advanced scraper might even extract all the CSS and Javascript elements as well. Then the scraper obtains the required data from this HTML code and outputs this data in the format specified by the user. Mostly, this is in the form of an Excel spreadsheet or a CSV file, but the data can also be saved in other formats, such as a JSON file.

Web scrapping means to pull out the necessary data from a website.

```
In [1]: #importing the libraries
```

```
import requests #used to send http request to the specified URL using get,post,put methods.  
                #We can retrieve or push the data to the server using request library.  
                #It works as request-response protocol.  
                #In this assign we r only retrieving the data from the website  
  
import bs4      #Use for pulling data out of html or xml files.
```

```
In [2]: request1=requests.get('https://www.flipkart.com/boat-rockerz-255-pro-258-asap-charge-up-to-40-hours-playback-bluetooth-headset/p/itm9d3a2c5e5356a?pid=ACCFZ95M5JTZQH3F&lid=AAD7A95M5JTBH3F&cid=AAD7A95M5JTBH3F')
request1
```

```
Out[2]: <Response [200]>
```

```
In [3]: request1.content #will show the content in request1, that we've got. We will get a raw html doc
```

[illegible]

```
#Now that we,ve fetched the content of webpage,hence we'll save it.  
#To save the fetched content of a webpage, We use BeautifulSoup method from bs4 library  
  
soup=bs4.BeautifulSoup(request1.text)  
  
#Till now we,ve fetched the data from a website and saved it.  
#Now time for fetching reviews,comments.
```

```
#Fetching Reviews/Comments
#reviews=soup.find_all('div',{'class':'t-ZTKy'});
#for review in reviews:
#    print(review.get_text() + "\n")

reviews=soup.find_all('div',{'class':'t-ZTKy'});
for review in reviews:
    print(review.get_text() + '\n')
```

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```
In [ ]: #overall avg rating
avg_ratings = soup.find('div',{'class':'_2d4LTz'}).get_text();
```

```
In [ ]: avg_ratings
```

```
In [ ]: #Individual ratings

individual_ratings= soup.find_all('div',{'class':'_3LWZlK _1BLPMq'})
for ind_rating in individual_ratings:
    print(ind_rating.get_text()+"\n")
```

```
In [ ]: #tags
#tags=soup.find('tag_name',{'class':'class_name'}).get_text();
#tags
```

```
In [ ]: #cust_names
customer_names=soup.find_all('p',{'class':'_2sc7ZR _2V5EHH'});
for cust_names in customer_names:
    print(cust_names.get_text() + "\n")
```

```
In [ ]:
```