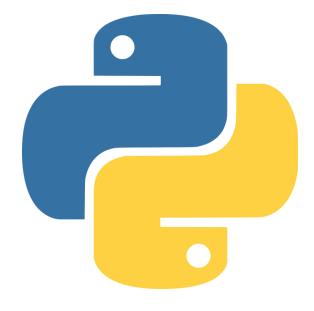
Web Scraping with Python Using Beautiful Soup

I'll be showing you how we can find the cheapest, in-stock, products on Newegg.

You'll be able to modify the code I show in this video to apply it to other websites and combine them together when searching for a product.





Getting Website HTML

Continuing the "family tree" analogy, every tag and every string has a parent: the tag that contains it.

web_scraping4.py

```
from bs4 import BeautifulSoup
import requests
import re

search_term = input("What product do you want to search for? ") # ex: 3090

url = f"https://www.newegg.ca/p/pl?d={search_term}&N=4131"

page = requests.get(url).text
doc = BeautifulSoup(page, "html.parser")
```

Querying Multiple Pages

Finding count of the pages with specific product

web scraping4.py

```
from bs4 import BeautifulSoup
import requests
import re

search_term = input("What product do you want to search for? ") # ex: 3080

url = f"https://www.newegg.ca/p/pl?d={search_term}&N=4131"
page = requests.get(url).text
doc = BeautifulSoup(page, "html.parser")

page_text = doc.find(class_="list-tool-pagination-text").strong
pages = int(str(page_text).split("/")[-2].split(">")[-1][:-1])
print(pages)
```

Finding Products

Printing list of products

web_scraping4.py

```
from bs4 import BeautifulSoup
import requests
import re
search term = input("What product do you want to search for? ")
url = f"https://www.newegg.ca/p/pl?d={search term}&N=4131"
page = requests.get(url).text
doc = BeautifulSoup(page, "html.parser")
page text = doc.find(class = "list-tool-pagination-text").strong
pages = int(str(page text).split("/")[-2].split(">")[-1][:-1])
print(pages)
for page in range(1, pages + 1):
    url = f"https://www.newegg.ca/p/pl?d={search_term}&N=4131&page={page}"
    page = requests.get(url).text
    doc = BeautifulSoup(page, "html.parser")
    div = doc.find(class = "item-cells-wrap border-cells items-grid-view four-cells expulsion-one-cell")
    items = div.find all(text=re.compile(search term))
    for item in items:
        print(item)
```

Finding Products

Printing list of the products:

Name, Price and link

```
from bs4 import BeautifulSoup
import requests
import re
search term = input("What product do you want to search for? ")
url = f"https://www.newegg.ca/p/pl?d={search_term}&N=4131"
page = requests.get(url).text
doc = BeautifulSoup(page, "html.parser")
page_text = doc.find(class_="list-tool-pagination-text").strong
pages = int(str(page_text).split("/")[-2].split(">")[-1][:-1])
print(pages)
items found = {}
for page in range(1, pages + 1):
    url = f"https://www.newegg.ca/p/pl?d={search term}&N=4131&page={page}"
    page = requests.get(url).text
    doc = BeautifulSoup(page, "html.parser")
    div = doc.find(class = "item-cells-wrap border-cells items-grid-view four-cells expulsion-one-cell")
    items = div.find all(text=re.compile(search term))
    for item in items:
        parent = item.parent
        if parent.name != "a":
        link = parent['href']
        next parent = item.find parent(class = "item-container")
            price = next parent.find(class = "price-current").find("strong").string
            items found[item] = {"price": int(price.replace(",", "")), "link": link}
print(items found)
```

Sorting Products By Price

```
from bs4 import BeautifulSoup
                                                                                         web_scraping4.py
import requests
import re
search term = input("What product do you want to search for? ")
url = f"https://www.newegg.ca/p/pl?d={search_term}&N=4131"
page = requests.get(url).text
doc = BeautifulSoup(page, "html.parser")
page_text = doc.find(class_="list-tool-pagination-text").strong
pages = int(str(page_text).split("/")[-2].split(">")[-1][:-1])
items_found = {}
for page in range(1, pages + 1):
    url = f"https://www.newegg.ca/p/pl?d={search_term}&N=4131&page={page}"
    page = requests.get(url).text
    doc = BeautifulSoup(page, "html.parser")
    div = doc.find(class = "item-cells-wrap border-cells items-grid-view four-cells expulsion-one-cell")
    items = div.find_all(text=re.compile(search_term))
       parent = item.parent
       if parent.name != "a":
       link = parent['href']
       next parent = item.find parent(class = "item-container")
           price = next parent.find(class ="price-current").find("strong").string
           items found[item] = {"price": int(price.replace(",", "")), "link": link}
sorted items = sorted(items found.items(), key=Lambda x: x[1]['price'])
for item in sorted items:
   print(item[0])
   print(f"${item[1]['price']}")
    print(item[1]['link'])
    print("-----")
```

Sorting Products By Price

