

In [1]:

```
# pip install beautifulsoup4
```

Requirement already satisfied: beautifulsoup4 in /Users/dhyan/opt/anaconda3/lib/python3.9/site-packages (4.10.0)
Requirement already satisfied: soupsieve>1.2 in /Users/dhyan/opt/anaconda3/lib/python3.9/site-packages (from beautifulsoup4) (2.2.1)

[notice] A new release of pip is available: 23.0 -> 23.0.1

[notice] To update, run: `pip install --upgrade pip`

Note: you may need to restart the kernel to use updated packages.

In [3]:

```
# pip install requests  
# !pip install bs4
```

Collecting bs4

Downloading bs4-0.0.1.tar.gz (1.1 kB)

Preparing metadata (setup.py) ... done

Requirement already satisfied: beautifulsoup4 in /Users/dhyan/opt/anaconda3/lib/python3.9/site-packages (from bs4) (4.10.0)

Requirement already satisfied: soupsieve>1.2 in /Users/dhyan/opt/anaconda3/lib/python3.9/site-packages (from beautifulsoup4->bs4) (2.2.1)

Building wheels for collected packages: bs4

Building wheel for bs4 (setup.py) ... done

Created wheel for bs4: filename=bs4-0.0.1-py3-none-any.whl size=1256 sha256=9ebb5b366ad4259bfa28e2d4dfa72c4ff29a15a5639466ea01efd3474bc9ab3a

Stored in directory: /Users/dhyan/Library/Caches/pip/wheels/73/2b/cb/099980278a0c9a3e57ff1a89875ec07bfa0b6fcbebb9a8cad3

Successfully built bs4

Installing collected packages: bs4

Successfully installed bs4-0.0.1

[notice] A new release of pip is available: 23.0 -> 23.0.1

[notice] To update, run: `pip install --upgrade pip`

In [4]:

```
# pip install --upgrade pip
```

Requirement already satisfied: pip in /Users/dhyan/opt/anaconda3/lib/python3.9/site-packages (23.0)

Collecting pip

Downloading pip-23.0.1-py3-none-any.whl (2.1 MB)

2.1/2.1 MB 11.9 MB/s eta 0:00
:0000:0100:01

Installing collected packages: pip

Attempting uninstall: pip

Found existing installation: pip 23.0

Uninstalling pip-23.0:

Successfully uninstalled pip-23.0

Successfully installed pip-23.0.1

Note: you may need to restart the kernel to use updated packages.

In [5]:

```
# !pip install requests
```

Requirement already satisfied: requests in /Users/dhyan/opt/anaconda3/lib/python3.9/site-packages (2.26.0)
Requirement already satisfied: charset-normalizer~=2.0.0 in /Users/dhyan/opt/anaconda3/lib/python3.9/site-packages (from requests) (2.0.4)
Requirement already satisfied: idna<4,>=2.5 in /Users/dhyan/opt/anaconda3/lib/python3.9/site-packages (from requests) (3.2)
Requirement already satisfied: certifi>=2017.4.17 in /Users/dhyan/opt/anaconda3/lib/python3.9/site-packages (from requests) (2021.10.8)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in /Users/dhyan/opt/anaconda3/lib/python3.9/site-packages (from requests) (1.26.7)

In [16]:

```
# Import libraries
from urllib.request import urljoin
from bs4 import BeautifulSoup
import requests
from urllib.request import urlparse

# Set for storing urls with same domain
links_intern = set()
input_url = "https://thomasdorfer.medium.com/"
depth = 2

# Set for storing urls with different domain
links_extern = set()

# Method for crawling a url at next level
def level_crawler(input_url):
    temp_urls = set()
    current_url_domain = urlparse(input_url).netloc

    # Creates beautiful soup object to extract html tags
    beautiful_soup_object = BeautifulSoup(
        requests.get(input_url).content, "lxml")

    # Access all anchor tags from input
    # url page and divide them into internal
    # and external categories
    for anchor in beautiful_soup_object.findAll("a"):
        href = anchor.attrs.get("href")
        if(href != "" or href != None):
            href = urljoin(input_url, href)
            href_parsed = urlparse(href)
            href = href_parsed.scheme
            href += "://"
            href += href_parsed.netloc
            href += href_parsed.path
            final_parsed_href = urlparse(href)
            is_valid = bool(final_parsed_href.scheme) and bool(final_parsed_href.path)
            if is_valid:
                if current_url_domain not in href and href not in links_extern:
                    print("External - {}".format(href))
                    links_extern.add(href)
                if current_url_domain in href and href not in links_intern:
                    print("Internal - {}".format(href))
                    links_intern.add(href)
                    temp_urls.add(href)

    return temp_urls
```

```

# if(depth == 0):
#     print("Intern - {}".format(input_url))

# elif(depth == 1):
#     level_crawler(input_url)
queue = []
queue.append(input_url)
for j in range(depth):
    for count in range(len(queue)):
        url = queue.pop(0)
        urls = level_crawler(url)
        for i in urls:
            queue.append(i)

```

```

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In []:

```
import numpy as np
import pandas as pd
from queue import Queue
import requests
from bs4 import BeautifulSoup
q=Queue()
url = input("Enter URL")
q.put(url)
visited= set()
# visited.add(url)
urls=[]
# print(q.get())
while(q.empty()==False and len(urls)<50):
    m = q.qsize()
    for i in range(m):
        link = q.get()
        if link in visited:
            continue

        visited.add(link)
        print(link)
        urls.append(link)
#     print(urls[0])
    try:
        reqs = requests.get(link)
    except:
        continue
    html = reqs.content
    soup = BeautifulSoup(html, 'html.parser')

    for new_url in soup.find_all('a'):
        q.put(new_url.get('href'))

print(urls)
```

```
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https://gmyrianthous.medium.com/?source=blogrolls_sidebar---two_column_layo
ut_sidebar-----
/following?source=blogrolls_sidebar---two_column_layout_sidebar-----

https://help.medium.com/hc/en-us?source=---two_column_layout_sidebar-----

https://medium.statuspage.io/?source=---two_column_layout_sidebar-----

https://about.medium.com/creators/?source=---two_column_layout_sidebar-----

https://blog.medium.com/?source=---two_column_layout_sidebar-----

https://medium.com/jobs-at-medium/work-at-medium-959d1a85284e?source=---two
_column_layout_sidebar-----
https://policy.medium.com/medium-privacy-policy-f03bf92035c9?source=---two_
column_layout_sidebar-----
https://policy.medium.com/medium-terms-of-service-9db0094ale0f?source=---tw
o_column_layout_sidebar-----

In []:

```
import requests
from bs4 import BeautifulSoup

# zenrows_api_base = "https://api.zenrows.com/v1/?apikey=YOUR_KEY"
seed_url = ""

def extract_links(soup):
    return [a.get("href")
            for a in soup.find_all("a")
            if a.get("href") and a.get("href").startswith("/")]

def call_url(url):
    response = requests.get(zenrows_api_base, params={"url": url})
    soup = BeautifulSoup(response.text, "html.parser")
    links = extract_links(url, soup)
    print(links)

call_url(seed_url)
```