Data gathering

Sources of Data

A vast amount of historical data can be found in files such as:

- MS Word documents
- Emails
- Spreadsheets
- MS PowerPoints
- PDFs
- HTML
- and plaintext files

Public and Private Archives

CSV, JSON, and XML files use plaintext, a common format, and are compatible with a wide range of applications

The Web can be mined for data using a web scraping application

The IoT uses sensors create data

Sensors in smartphones, cars, airplanes, street lamps, and home appliances capture raw data

Open Data and Private Data

1. Open Data

   > The Open Knowledge Foundation describes Open Data as "any content, information or data that people are free to use, reuse, and redistribute without any legal,

technological, or social restriction."

2. Private Data

   > Data related to an expectation of privacy and regulated by a particular country/government

Structured and Unstructured Data

1. Structured Data

   > Data entered and maintained in fixed fields within a file or record Easily
   > entered, classified, queried, and analyzed Relational databases or
   > spreadsheets

2. Unstructured Data Lacks organization

   > Raw data Photo contents, audio, video, web pages, blogs, books, journals,
   > white papers, PowerPoint presentations, articles, email, wikis, word processing

documents, and text in general

Example of gathering image data using webcam

Note: Run this snippet using local jupyter notebook

In [27]:
```python
import cv2

key = cv2. waitKey(1)
webcam = cv2.VideoCapture(0)
while True:
 try:
        check, frame = webcam.read()
        print(check) #prints true as long as the webcam is running
        print(frame) #prints matrix values of each framecd
        cv2.imshow("Capturing", frame)
        key = cv2.waitKey(1)
        if key == ord('s'):
            cv2.imwrite(filename='saved_img.jpg', img=frame)
            webcam.release()
            img_new = cv2.imread('saved_img.jpg', cv2.IMREAD_GRAYSCALE)
            img_new = cv2.imshow("Captured Image", img_new)
            cv2.waitKey(1650)
            cv2.destroyAllWindows()
            print("Processing image...")
            img_ = cv2.imread('saved_img.jpg', cv2.IMREAD_ANYCOLOR)
            print("Converting RGB image to grayscale...")
            gray = cv2.cvtColor(img_, cv2.COLOR_BGR2GRAY)
            print("Converted RGB image to grayscale...")
            print("Resizing image to 28x28 scale...")
            img_ = cv2.resize(gray,(28,28))
            print("Resized...")
            img_resized = cv2.imwrite(filename='saved_img-final.jpg', img=img_)
            print("Image saved!")
            break
        elif key == ord('q'):
            print("Turning off camera.")
            webcam.release()
            print("Camera off.")
            print("Program ended.")
```

```python
        cv2.destroyAllWindows()
        break

except(KeyboardInterrupt):
    print("Turning off camera.")
    webcam.release()
    print("Camera off.")
    print("Program ended.")
    cv2.destroyAllWindows()
    break
```

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  ...

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Image saved!
```

Example of gathering voice data using microphone

Note: Run the snippet of codes using local jupyter notebook

In [5]:
```
!pip3 install sounddevice
```

```
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: sounddevice in c:\users\jnrss\appdata\roaming\python
\python312\site-packages (0.5.1)
Requirement already satisfied: CFFI>=1.0 in d:\program files\anaconda\lib\site-packa
ges (from sounddevice) (1.17.1)
Requirement already satisfied: pycparser in d:\program files\anaconda\lib\site-packa
ges (from CFFI>=1.0->sounddevice) (2.21)
```

In [6]:
```
!pip3 install wavio
```

```
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: wavio in c:\users\jnrss\appdata\roaming\python\python
312\site-packages (0.0.9)
Requirement already satisfied: numpy>=1.19.0 in d:\program files\anaconda\lib\site-p
ackages (from wavio) (1.26.4)
```

In [7]:
```
!pip3 install scipy
```

```
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: scipy in d:\program files\anaconda\lib\site-packages
(1.13.1)
Requirement already satisfied: numpy<2.3,>=1.22.4 in d:\program files\anaconda\lib\s
ite-packages (from scipy) (1.26.4)
```

In [11]:
```python
#pip install pipwin
#pipwin install pyaudio
# I dowloaded these modules in Anaconda Prompt since apt-get install libportaudio2
import pyaudio
```

In [22]:
```python
# import required libraries
import sounddevice as sd
from scipy.io.wavfile import write
import wavio as wv

# Sampling frequency
freq = 44100

# Recording duration
duration = 30

# Start recorder with the given values
# of duration and sample frequency
print("Recording...") #I added i new line so that I will see if it's starts recordi
recording = sd.rec(int(duration * freq),
 samplerate=freq, channels=1) # My pc didn't have 2 channels so I only made it 1
print("Recording complete.") # So that I know it stopped

# Record audio for the given number of seconds
sd.wait()

# This will convert the NumPy array to an audio
# file with the given sampling frequency
write("recording0.wav", freq, recording)

# Convert the NumPy array to audio file
wv.write("recording1.wav", recording, freq, sampwidth=2)
```

```
Recording...
Recording complete.
```

In [23]:
```python
from IPython.display import Audio #I searched this so that I could play the recordi

# Play the recorded audio
Audio("recording0.wav")
```

Out[23]:

▶   0:00 / 0:15 ━━━━━━━━━━━━━   🔊   ⋮
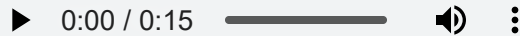
Web Scraping

Web scraping, web harvesting, or web data extraction is data scraping used for extracting data from websites. The web scraping software may directly access the World Wide Web using the Hypertext Transfer Protocol or a web browser. While web scraping can be done manually by a software user, the term typically refers to automated processes implemented using a bot or web crawler. It is a form of copying in which specific data is gathered and copied from the web, typically into a central local database or spreadsheet, for later retrieval or analysis.

Reference: link text

Image Scraping using BeautifulSoup and Request

In [29]:
```
!pip install bs4
```

```
Defaulting to user installation because normal site-packages is not writeable
Collecting bs4
  Downloading bs4-0.0.2-py2.py3-none-any.whl.metadata (411 bytes)
Requirement already satisfied: beautifulsoup4 in d:\program files\anaconda\lib\site-
packages (from bs4) (4.12.3)
Requirement already satisfied: soupsieve>1.2 in d:\program files\anaconda\lib\site-p
ackages (from beautifulsoup4->bs4) (2.5)
Downloading bs4-0.0.2-py2.py3-none-any.whl (1.2 kB)
Installing collected packages: bs4
Successfully installed bs4-0.0.2
```

In [30]:
```
pip install requests
```

```
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: requests in d:\program files\anaconda\lib\site-packag
es (2.32.3)
Requirement already satisfied: charset-normalizer<4,>=2 in d:\program files\anaconda
\lib\site-packages (from requests) (3.3.2)
Requirement already satisfied: idna<4,>=2.5 in d:\program files\anaconda\lib\site-pa
ckages (from requests) (3.7)
Requirement already satisfied: urllib3<3,>=1.21.1 in d:\program files\anaconda\lib\s
ite-packages (from requests) (2.2.3)
Requirement already satisfied: certifi>=2017.4.17 in d:\program files\anaconda\lib\s
ite-packages (from requests) (2024.8.30)
Note: you may need to restart the kernel to use updated packages.
```

In [31]:
```python
import requests
from bs4 import BeautifulSoup

def getdata(url):
 r = requests.get(url)
```

```
 return r.text

htmldata = getdata("https://www.google.com/")
soup = BeautifulSoup(htmldata, 'html.parser')
for item in soup.find_all('img'):
 print(item['src'])
```

/images/branding/googlelogo/1x/googlelogo_white_background_color_272x92dp.png

In [34]:
```
pip install selenium
```

Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: selenium in c:\users\jnrss\appdata\roaming\python\pyt
hon312\site-packages (4.31.0)
Requirement already satisfied: urllib3<3,>=1.26 in d:\program files\anaconda\lib\sit
e-packages (from urllib3[socks]<3,>=1.26->selenium) (2.2.3)
Requirement already satisfied: trio~=0.17 in c:\users\jnrss\appdata\roaming\python\p
ython312\site-packages (from selenium) (0.29.0)
Requirement already satisfied: trio-websocket~=0.9 in c:\users\jnrss\appdata\roaming
\python\python312\site-packages (from selenium) (0.12.2)
Requirement already satisfied: certifi>=2021.10.8 in d:\program files\anaconda\lib\s
ite-packages (from selenium) (2024.8.30)
Requirement already satisfied: typing_extensions~=4.9 in d:\program files\anaconda\l
ib\site-packages (from selenium) (4.11.0)
Requirement already satisfied: websocket-client~=1.8 in d:\program files\anaconda\li
b\site-packages (from selenium) (1.8.0)
Requirement already satisfied: attrs>=23.2.0 in c:\users\jnrss\appdata\roaming\pytho
n\python312\site-packages (from trio~=0.17->selenium) (25.3.0)
Requirement already satisfied: sortedcontainers in d:\program files\anaconda\lib\sit
e-packages (from trio~=0.17->selenium) (2.4.0)
Requirement already satisfied: idna in d:\program files\anaconda\lib\site-packages
(from trio~=0.17->selenium) (3.7)
Requirement already satisfied: outcome in c:\users\jnrss\appdata\roaming\python\pyth
on312\site-packages (from trio~=0.17->selenium) (1.3.0.post0)
Requirement already satisfied: sniffio>=1.3.0 in d:\program files\anaconda\lib\site-
packages (from trio~=0.17->selenium) (1.3.0)
Requirement already satisfied: cffi>=1.14 in d:\program files\anaconda\lib\site-pack
ages (from trio~=0.17->selenium) (1.17.1)
Requirement already satisfied: wsproto>=0.14 in c:\users\jnrss\appdata\roaming\pytho
n\python312\site-packages (from trio-websocket~=0.9->selenium) (1.2.0)
Requirement already satisfied: pysocks!=1.5.7,<2.0,>=1.5.6 in d:\program files\anaco
nda\lib\site-packages (from urllib3[socks]<3,>=1.26->selenium) (1.7.1)
Requirement already satisfied: pycparser in d:\program files\anaconda\lib\site-packa
ges (from cffi>=1.14->trio~=0.17->selenium) (2.21)
Requirement already satisfied: h11<1,>=0.9.0 in d:\program files\anaconda\lib\site-p
ackages (from wsproto>=0.14->trio-websocket~=0.9->selenium) (0.14.0)
Note: you may need to restart the kernel to use updated packages.

Image Scraping using Selenium

Note: Run the snippet of code using local jupyter notebook

In [ ]:
```
!pip install selenium
import sys
sys.path.insert(0,'/usr/lib/chromium-browser/chromedriver')
```

```python
from selenium import webdriver
from selenium.webdriver.common.by import By
import time
import requests
import shutil
import os
import getpass
import urllib.request
import io
import time
from PIL import Image
user = getpass.getuser()
chrome_options = webdriver.ChromeOptions()
chrome_options.add_argument('--headless')
chrome_options.add_argument('--no-sandbox')
chrome_options.add_argument('--disable-dev-shm-usage')
driver = webdriver.Chrome()
def scroll_to_end(driver):
    driver.execute_script("window.scrollTo(0, document.body.scrollHeight);")
    time.sleep(5)#sleep_between_interactions


def getImageUrls(name,totalImgs,driver):
    search_url = "https://www.google.com/search?q=cat&tbm=isch&ved=2ahUKEwjNn_Gn7Yy
    driver.get(search_url)
    img_urls = set()
    img_count = 0
    results_start = 0

    while(img_count+results_start<totalImgs): #Extract actual images now
        scroll_to_end(driver)
        totalResults = driver.find_elements(By.CLASS_NAME,"Q4LuWd")
        print('total results:', len(totalResults))
        print(f"Found: {totalResults} search results. Extracting links from{results
        for img in totalResults[results_start:totalImgs]:
            img.click()
            time.sleep(5)
            image = driver.find_element(By.CLASS_NAME,'iPVvYb')
            img_urls.add(image.get_attribute('src'))
            print(img_urls)
            img_count=len(img_urls)
            print(img_count)


    return img_urls

def downloadImages(folder_path,file_name,url):
    try:
        image_content = requests.get(url).content
    except Exception as e:
        print(f"ERROR - COULD NOT DOWNLOAD {url} - {e}")
    try:
        image_file = io.BytesIO(image_content)
        image = Image.open(image_file).convert('RGB')
        file_path = os.path.join(folder_path, file_name)
```

```python
        with open(file_path, 'wb') as f:
            image.save(f, "JPEG", quality=85)
        print(f"SAVED - {url} - AT: {file_path}")
    except Exception as e:
        print(f"ERROR - COULD NOT SAVE {url} - {e}")

def saveInDestFolder(searchNames,destDir,totalImgs,driver):
    for name in list(searchNames):
        path=os.path.join(destDir,name)
        if not os.path.isdir(path):
            os.mkdir(path)
        print('Current Path',path)
        totalLinks=getImageUrls(name,totalImgs,driver)
        print('totalLinks',totalLinks)

        if totalLinks is None:
            print('images not found for :',name)

        else:
            for i, link in enumerate(totalLinks):
                file_name = f"{i:150}.jpg"
                downloadImages(path,file_name,link)

searchNames=['cat']
destDir=f'C:\Users\jnrss'
totalImgs=5

saveInDestFolder(searchNames,destDir,totalImgs,driver)
```
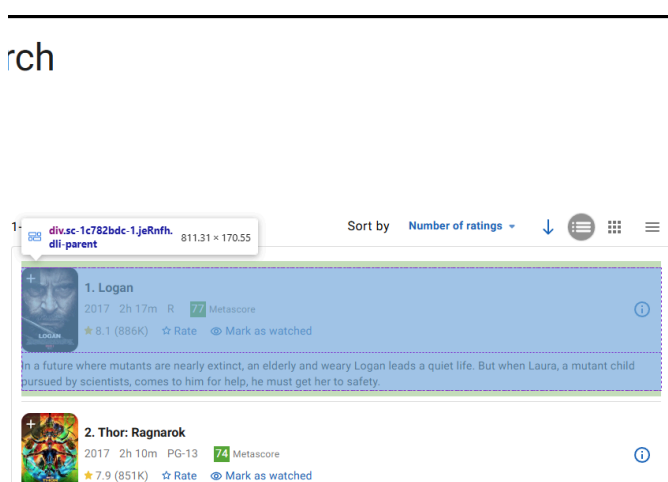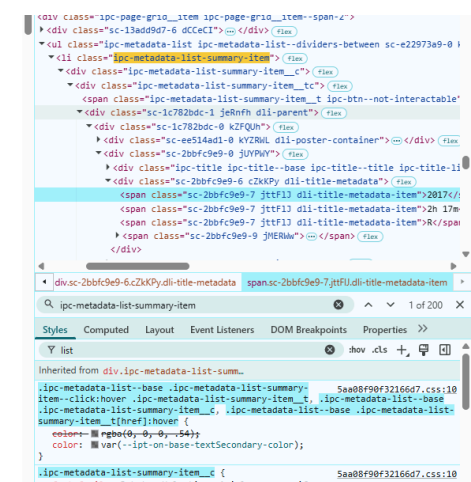
Web Scraping of Movies Information using BeautifulSoup

We want to analyze the distributions of IMDB and Metacritic movie ratings to see if we find anything interesting. To do this, we'll first scrape data for over 2000 movies.


Identifying the URL structure

Identifying the URL structure In the image above, you can see that the URL has several parameters after the question mark:
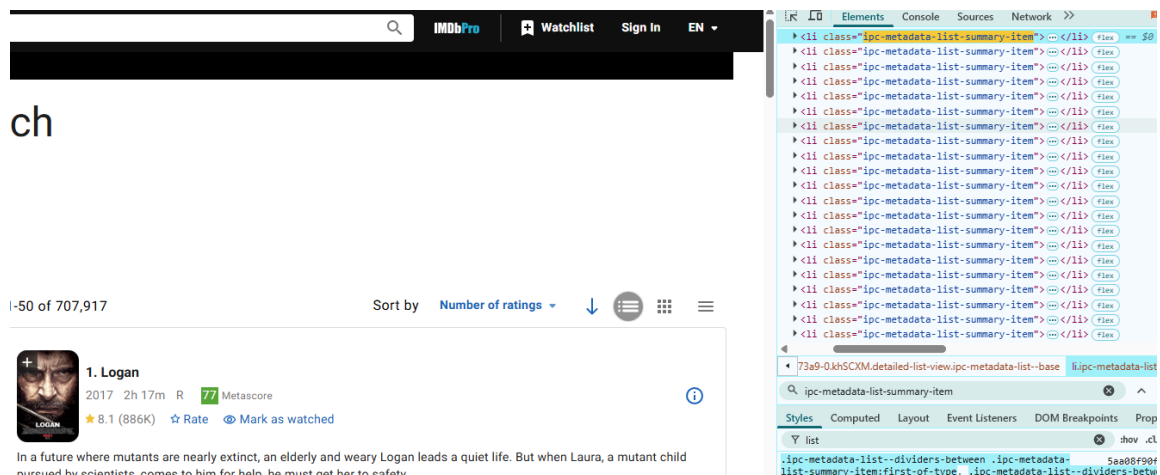
- release_date — Shows only the movies released in a specific year.
- sort — Sorts the movies on the page. sort=num_votes,desc translates to sort by number of votes in a descending order.
- page — Specifies the page number.
- ref_ — Takes us to the the next or the previous page. The reference is the page we are currently on. adv_nxt and adv_prv are two possible values. They translate to

advance to the next page, and advance to the previous page, respectivel

```
In [19]:  from requests import get
          url = 'https://www.imdb.com/search/title/?release_date=2017-01-01,2017-12-31&sort=n
          agent = {"User-Agent": 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.3
          response = get(url, headers = agent)
          print(response)
          print(response.text[:500])
```

```
<Response [200]>
<!DOCTYPE html><html lang="en-US" xmlns:og="http://opengraphprotocol.org/schema/" xm
lns:fb="http://www.facebook.com/2008/fbml"><head><meta charSet="utf-8"/><meta name
="viewport" content="width=device-width"/><script>if(typeof uet === 'function'){ uet
('bb', 'LoadTitle', {wb: 1}); }</script><script>window.addEventListener('load', (eve
nt) => {
        if (typeof window.csa !== 'undefined' && typeof window.csa === 'function') {
            var csaLatencyPlugin = window.csa('Content', {
```

Understanding the HTML structure of a single page

Using BeautifulSoup to parse the HTML content

To parse our HTML document and extract the 50 div containers, we'll use a Python module called BeautifulSoup, the most common web scraping module for Python.

In the following code cell we will:

- Import the BeautifulSoup class creator from the package bs4.

- Parse response.text by creating a BeautifulSoup object, and assign this object to html_soup. The 'html.parser' argument indicates that we want to do the parsing using

Python's built-in HTML parser.

In [20]:
```python
from bs4 import BeautifulSoup
html_soup = BeautifulSoup(response.text, 'html.parser')
headers = {'Accept-Language': 'en-US,en;q=0.8'}
type(html_soup)
```

Out[20]:   bs4.BeautifulSoup

Before extracting the 50 div containers, we need to figure out what distinguishes them from other div elements on that page. Often, the distinctive mark resides in the class attribute. If you inspect the HTML lines of the containers of interest, you'll notice that the class attribute has two values: lister-item and mode-advanced. This combination is unique to these div containers. We can see that's true by doing a quick search (Ctrl + F). We have 50 such containers, so we expect to see only 50 matches:

In [30]:
```python
movie_containers = soup.find_all('li', class_ = 'ipc-metadata-list-summary-item') #
print(type(movie_containers))
print(len(movie_containers))
```
```
<class 'bs4.element.ResultSet'>
50
```

find_all() returned a ResultSet object which is a list containing all the 50 divs we are interested in.

Now we'll select only the first container, and extract, by turn, each item of interest:

The name of the movie The year of release. The IMDB rating. The Metascore. The number of votes

Extracting the data for a single movie

We can access the first container, which contains information about a single movie, by using list notation on movie_containers.

In [37]:
```python
first_movie = movie_containers[0]
```

In [38]:
```python
first_name = first_movie.h3.text
first_name[3:]
```

Out[38]:   'Logan'

The year of the movie's release

In [46]:
```python
first_year = movie_containers[0].find('span', class_ = "sc-2bbfc9e9-7 jttFlJ dli-ti
```

```
print(first_year)
```

```
<span class="sc-2bbfc9e9-7 jttFlJ dli-title-metadata-item">2017</span>
```

In [47]:
```
first_year = first_year.text
print(first_year)
```

```
2017
```

The IMDB rating

In [90]:
```
first_imdb = movie_containers[0].find('span', class_ = "ipc-rating-star--rating")
first_imdb.text[:3]
```

Out[90]:   '8.1'

The Metascore

In [91]:
```
first_mscore = movie_containers[0].find('span', class_ = 'sc-b0901df4-0 bXIOoL meta
first_mscore = first_mscore.text
print(first_mscore)
```

```
77
```

The number of votes

In [92]:
```
first_votes = movie_containers[0].find('span', class_ = 'ipc-rating-star--voteCount
first_votes.text[2:-1]
```

Out[92]:   '886K'

The script

In [98]:
```
# Lists to store the scraped data in
names = []
years = []
imdb_ratings = []
metascores = []
votes = []
# Extract data from individual movie container
for container in movie_containers:
 names.append(container.find('h3', class_ = "ipc-title__text").text[3:])
 # print(container.find('h3', class_ = "ipc-title__text").text[3:])
 years.append(container.find('span', class_ = "sc-2bbfc9e9-7 jttFlJ dli-title-metad
 # print(container.find('span', class_ = "sc-b0691f29-8 ilsLEX dli-title-metadata-i
 imdb_ratings.append(container.find('span', class_="ipc-rating-star ipc-rating-star
 # print(container.find('span', class_ = "ipc-rating-star ipc-rating-star--base ipc
 rate = container.find('span', class_='sc-b0901df4-0 bcQdDJ metacritic-score-box')
 if rate:
     metascores.append(rate.text)
 else:
     metascores.append(0)
 # print(container.find('span', class_ = 'ipc-rating-star--voteCount').text[2:-1])
 votes.append(container.find('span', class_ = 'ipc-rating-star--voteCount').text[2:
```

```
print(len(names))
print(len(years))
print(len(imdb_ratings))
print(len(metascores))
print(len(votes))
```

```
50
50
50
50
50
```

In [121]…
```python
import pandas as pd
df = pd.DataFrame({'movie':names,
                   'year' : years,
                   'IMDb' : imdb_ratings,
                   'metascore' : metascores,
                   'votes' : votes


})
df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 0 entries
Data columns (total 5 columns):
 #   Column     Non-Null Count  Dtype
---  ------     --------------  -----
 0   movie      0 non-null      float64
 1   year       0 non-null      float64
 2   IMDb       0 non-null      float64
 3   metascore  0 non-null      float64
 4   votes      0 non-null      float64
dtypes: float64(5)
memory usage: 132.0 bytes
```

In [122]…
```python
df.head(3)
```

Out[122]…

movie	year	IMDb	metascore	votes

In [123]…
```python
df.to_csv('Movies.csv', index = False)
```

In [124]…
```python
df = pd.read_csv('Movies.csv')
df.head()
```

Out[124]…

movie	year	IMDb	metascore	votes

In [125]…
```python
df.tail()
```

Out[125]…

movie	year	IMDb	metascore	votes

The script for multiple pages

In [22]:
```python
from time import time
from time import sleep
from requests import get
from random import randint
from IPython.core.display import clear_output
from bs4 import BeautifulSoup


pages = ['1','2','3','4','5']
years_url = ['2017', '2018', '2019', '2020']

# Redeclaring the lists to store data in
names = []
years = []
imdb_ratings = []
metascores = []
votes = []

# Preparing the monitoring of the loop
start_time = time()
requests = 0

# For every year in the interval 2017-2020
for year_url in years_url:

    # For every page in the interval 1-5
    for page in pages:

        # Correct URL with pagination
        url = f'https://www.imdb.com/search/title/?release_date={year_url}-01-01,{y
        agent = {"User-Agent":"Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKi
        response = get(url, headers=agent)
        print(response.text[:500])  # Optional: check if it looks right

        # Pause the loop
        sleep(randint(5, 10))

        # Monitor the requests
        requests += 1
        elapsed_time = time() - start_time
        print('Request:{}; Frequency: {} requests/s'.format(requests, requests/elap
        clear_output(wait=True)

        # Throw a warning for non-200 status codes
        if response.status_code != 200:
            print('Request: {}; Status code: {}'.format(requests, response.status_c
            continue

        # Break the loop if the number of requests is greater than expected
        if requests > 72:
            print('Number of requests was greater than expected.')
            break

        # Parse the content of the request with BeautifulSoup
        page_html = BeautifulSoup(response.text, 'html.parser')
```

```python
        # Select all the 50 movie containers from a single page
        mv_containers = page_html.find_all('div', class_='sc-1c782bdc-1 jeRnfh dli-

        # For every movie of these 50
        for container in mv_containers:
            # If the movie has a Metascore, then:
            if container.find('span', class_='sc-b0901df4-0 bcQdDJ metacritic-score
                # Scrape the name
                name = container.find('h3', class_='ipc-title__text').text[3:]
                names.append(name)

                # Scrape the year
                year = container.find('span', class_='sc-b0691f29-8 ilsLEX dli-titl
                years.append(year)

                # Scrape the IMDB rating
                imdb = container.find('span', class_='ipc-rating-star ipc-rating-st
                imdb_ratings.append(imdb)

                # Scrape the Metascore
                m_score = container.find('span', class_='sc-b0901df4-0 bcQdDJ metac
                metascores.append(m_score)

                # Scrape the number of votes
                vote = container.find('span', class_='ipc-rating-star--voteCount').
                votes.append(vote)
```

<!DOCTYPE html><html lang="en-US" xmlns:og="http://opengraphprotocol.org/schema/" xm
lns:fb="http://www.facebook.com/2008/fbml"><head><meta charSet="utf-8"/><meta name
="viewport" content="width=device-width"/><script>if(typeof uet === 'function'){ uet
('bb', 'LoadTitle', {wb: 1}); }</script><script>window.addEventListener('load', (eve
nt) => {
        if (typeof window.csa !== 'undefined' && typeof window.csa === 'function') {
            var csaLatencyPlugin = window.csa('Content', {

Request:20; Frequency: 0.10646918546530865 requests/s

In [23]:
```python
import pandas as pd

movie_ratings = pd.DataFrame({'movie': names,
'year': years,
'imdb': imdb_ratings,
'metascore': metascores,
'votes': votes
})
print(movie_ratings.info())
movie_ratings.head()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 0 entries
Data columns (total 5 columns):
 #   Column     Non-Null Count  Dtype
---  ------     --------------  -----
 0   movie      0 non-null      float64
 1   year       0 non-null      float64
 2   imdb       0 non-null      float64
 3   metascore  0 non-null      float64
 4   votes      0 non-null      float64
dtypes: float64(5)
memory usage: 132.0 bytes
None
```

Out[23]:

movie	year	imdb	metascore	votes

In [24]:
```
movie_ratings.tail()
```

Out[24]:

movie	year	imdb	metascore	votes

In [25]:
```
movie_ratings.to_csv('movie_ratings.csv')
```

> Data Preparation

I stopped doing the given instructions sir as I don't know how to properly execute them with multiple pages

PART 1 OF MY OWN WEBSCRAPING

I choose a website that List features books that have been turned into movies and are on IMDB's Top 250 List.

These are books that have movies

In [115…]
```python
import requests
from bs4 import BeautifulSoup

url = 'https://www.goodreads.com/list/show/14220.IMDB_250'
agent = {"User-Agent": 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.3
response = get(url, headers = agent)
print(response)
```

```
<Response [200]>
```

In [116…]
```python
from bs4 import BeautifulSoup
soup = BeautifulSoup(response.text, 'html.parser')
headers = {'Accept-Language': 'en-US,en;q=0.8'}
type(soup)
```

Out[116...   bs4.BeautifulSoup

In [117...
```python
Books = soup.find_all('tr', attrs={'itemtype': 'http://schema.org/Book'}) #Finding
print(type(Books))
print(len(Books))
```

```
<class 'bs4.element.ResultSet'>
100
```

class_: This is used to find HTML elements with a specific CSS class name.

attrs: This is used when you're targeting any other HTML attribute (like id, href, itemtype, etc.).

Now I will first only select only the first container, and extract, by turn, each item of interest:

- The title of book
- The author.
- The avg_rating.
- The score.

In [118...
```python
# Lists to store the scraped data
title = []
author = []
avg_rating = []
score = []

# Extract data from individual book container
for container in Books:
    # Title
    title_tag = container.find('a', class_="bookTitle")
    title.append(title_tag.text.strip() if title_tag else "N/A")

    # Author
    author_tag = container.find('span', itemprop='author')
    if author_tag:
        author_name = author_tag.find('span', itemprop='name')
        author.append(author_name.text.strip() if author_name else "N/A")
    else:
        author.append("N/A")

    # Average Rating (just the decimal part)
    rating_tag = container.find('span', class_="minirating")
    if rating_tag:
        raw_rating = rating_tag.text.strip()
        avg = raw_rating.split(" ")[0]
        avg_rating.append(avg)
    else:
        avg_rating.append("N/A")

    # Score
    score_tag = container.find('span', class_='smallText uitext')
    score_link = score_tag.find('a') if score_tag else None
    if score_link and "score:" in score_link.text:
```

```python
            score.append(score_link.text.strip().split("score:")[-1].strip())
        else:
            score.append("N/A")

# Check list lengths
print(len(title))
print(len(author))
print(len(avg_rating))
print(len(score))
```

```
100
100
100
100
```

In [119...
```python
import pandas as pd

Books = pd.DataFrame({
    'Title': title,
    'Author': author,
    'Average Rating': avg_rating,
    'Score': score
})
Books.head(3)
```

Out[119...

	Title	Author	Average Rating	Score
0	To Kill a Mockingbird	Harper Lee	4.26	2,139
1	The Lord of the Rings	J.R.R. Tolkien	4.54	1,971
2	The Wonderful Wizard of Oz (Oz, #1)	L. Frank Baum	really	1,376

Part 2: now that I have a data to clean I will now clean the data

In [120...
```python
Books.isna().any() # Check if there are empty rows
```

Out[120...
```
Title             False
Author            False
Average Rating    False
Score             False
dtype: bool
```

In [121...
```python
Books.duplicated().sum() #check if there are duplicates
```

Out[121...
```
0
```

In [122...
```python
Books.info() #checking if the datatypes are correct
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 100 entries, 0 to 99
Data columns (total 4 columns):
 #   Column          Non-Null Count  Dtype
---  ------          --------------  -----
 0   Title           100 non-null    object
 1   Author          100 non-null    object
 2   Average Rating  100 non-null    object
 3   Score           100 non-null    object
dtypes: object(4)
memory usage: 3.3+ KB
```

it seems that the data are not in the right data types, I will now convert them into their correct data types

In [123…
```python
# don't forget to remove the commas and extra spaces from 'Score' and 'Average Rati
Books['Score'] = Books['Score'].str.replace(',', '').str.strip() #I added this code
Books['Average Rating'] = Books['Average Rating'].astype(str).str.strip()


# Now convert to numeric
Books['Score'] = pd.to_numeric(Books['Score'], errors='coerce')
Books['Average Rating'] = pd.to_numeric(Books['Average Rating'], errors='coerce')

# Check result
print(Books.dtypes)
print(Books.head(3))
```

```
Title             object
Author            object
Average Rating    float64
Score              int64
dtype: object
                         Title          Author  Average Rating  Score
0           To Kill a Mockingbird      Harper Lee            4.26   2139
1           The Lord of the Rings  J.R.R. Tolkien            4.54   1971
2  The Wonderful Wizard of Oz (Oz, #1)   L. Frank Baum            NaN   1376
```

In [125…
```python
Books.dropna() # to remove the books that have no average rating
```

Out[125…

	Title	Author	Average Rating	Score
0	To Kill a Mockingbird	Harper Lee	4.26	2139
1	The Lord of the Rings	J.R.R. Tolkien	4.54	1971
3	The Fellowship of the Ring (The Lord of the Ri…	J.R.R. Tolkien	4.40	1170
4	The Two Towers (The Lord of the Rings, #2)	J.R.R. Tolkien	4.49	1151
5	One Flew Over the Cuckoo's Nest	Ken Kesey	4.20	965
...	...	...	...	...
95	The Adventures of Tom Sawyer	Mark Twain	3.92	99
96	Divergent (Divergent, #1)	Veronica Roth	4.14	98
97	The Great Gatsby	F. Scott Fitzgerald	3.93	97
98	Arch of Triumph: A Novel of a Man Without a Co…	Erich Maria Remarque	4.43	96
99	The Grapes of Wrath	John Steinbeck	4.02	95

98 rows × 4 columns

In [128…
```
Books.value_counts('Author') #I showed this to showcase how many authors works made
```

Out[128…
```
Author
J.R.R. Tolkien        4
J.K. Rowling          3
Stephen       King    3
Erich Maria Remarque  3
John Steinbeck        2
                     ..
Graham Greene         1
George R.R. Martin    1
Frederick Knott       1
Frank Miller          1
Władysław Szpilman    1
Name: count, Length: 88, dtype: int64
```

In [131…
```
Books['Average Rating'].mean() #this is the mean of the rating
```

Out[131… 4.073367346938775

In [132…
```
Books['Score'].mean() #this is the mean of the rating
```

Out[132… 403.77

In [136…
```
#and to finish off this datascraping I will now convert it into a csv

Books.to_csv('Top250Book.csv', index = False)
```