Activity 9: Extracting the Top 100 eBooks from Gutenberg

1. Import the necessary libraries, including regex and beautifulsoup.

In [1]:
```python
import pandas as pd
import numpy as np
import requests
import re
from bs4 import BeautifulSoup
import ssl
```

2. Check the SSL certificate.

In [2]:
```python
# Ignore SSL certificate errors
ssl_context = ssl.create_default_context()
ssl_context.check_hostname = False
ssl_context.verify_mode = ssl.CERT_NONE
```

3. Read the HTML from the URL.

In [3]:
```python
# Read the HTML from the URL and pass on to BeautifulSoup
gutenberg_url = 'https://www.gutenberg.org/browse/scores/top'
response = requests.get(gutenberg_url)
```

4. Write a small function to check the status of the web request.

In [4]:
```python
#Returning 0 for a success response and 1 for failures
def ApiStatus(response):
    if response.status_code == 200:   # success response
        return 0
    else:
        return 1
```

In [5]:
```python
ApiStatus(response)
```

Out[5]:
```
0
```

5. Decode the response and pass this on to BeautifulSoup for HTML parsing.

In [40]:
```python
response_encoding  = response.content.decode(response.encoding)
```

In [39]:
```python
soup = BeautifulSoup(response_encoding, 'html.parser')
```

6. Find all the href tags and store them in the list of links. Check what the list looks like – print the first 30 elements.

In [8]:
```python
# Empty list to hold all the http links in the HTML page
links_list=[]
# Find all the href tags and store them in the list of links
for link in soup.find_all('a'):
    links_list.append(link.get('href'))   #append each href tag to the empty list
```

In [9]:
```python
#print the first 30 elements.
print('Length of the list : ',len(links_list))
links_list[:30]
```

```
Length of the list :  675
```

```
['/',
 '/about/',
 '/about/',
 '/policy/collection_development.html',
 '/about/contact_information.html',
 '/about/background/',
 '/policy/permission.html',
 '/policy/privacy_policy.html',
 '/policy/terms_of_use.html',
 '/ebooks/',
 '/ebooks/',
 '/ebooks/bookshelf/',
 '/browse/scores/top',
 '/ebooks/offline_catalogs.html',
 '/help/',
 '/help/',
 '/help/copyright.html',
 '/help/errata.html',
 '/help/file_formats.html',
 '/help/faq.html',
 '/policy/',
 '/help/public_domain_ebook_submission.html',
 '/help/submitting_your_own_work.html',
 '/help/mobile.html',
 '/attic/',
 '/donate/',
 '/donate/',
 '#books-last1',
 '#authors-last1',
 '#books-last7']
```

7. Use a regular expression to find the numeric digits in these links. These are the file numbers for the top 100 eBooks.

In [44]:
```python
num_list = []
for link in links_list:
    # Regular expression to find the numeric digits in the link (href) string
    num = re.findall('[0-9]+',link)
    if num:
        num_list.append(num)
```

In [54]:
```python
len(num_list)
print(num_list[:50])
```

```
[['1'], ['1'], ['7'], ['7'], ['30'], ['30'], ['1513'], ['2701'], ['2641'], ['145'], ['37
106'], ['100'], ['67979'], ['16389'], ['6761'], ['394'], ['2160'], ['6593'], ['4085'],
['1259'], ['5197'], ['1342'], ['174'], ['84'], ['20228'], ['11'], ['47629'], ['42108'],
['1952'], ['2600'], ['345'], ['64317'], ['98'], ['844'], ['1661'], ['1184'], ['70809'],
['28054'], ['5200'], ['70810'], ['4300'], ['2554'], ['2542'], ['30254'], ['27827'], ['22
790'], ['70814'], ['1232'], ['15845'], ['10676']]
```

8. Initialize the empty list to hold the file numbers over an appropriate range and use regex to find the numeric digits in the link href string. Use the findall method. Fundamentals of Regular Expressions (RegEx) | 295

In [11]:
```python
file_num = []  #empty list for file numbers
for i in range(19,119):  #Loop through the length of list
    text = links_list[i].strip()  #strip line by spaces
    # Regular expression to find the numeric digits in the link (href) string
    num = re.findall('[0-9]+',text)  #regular expression for numbers
    if len(num)==1:
        # Append the filenumber casted as integer
        file_num.append(int(num[0]))
```

```
In [12]:    print ('\nThe file numbers for the top 100 ebooks on Gutenberg are as follows: \n'+'-'*7

            print(file_num)
```

The file numbers for the top 100 ebooks on Gutenberg are as follows:

[1, 1, 7, 7, 30, 30, 1513, 2701, 2641, 145, 37106, 100, 67979, 16389, 6761, 394, 2160, 6
593, 4085, 1259, 5197, 1342, 174, 84, 20228, 11, 47629, 42108, 1952, 2600, 345, 64317, 9
8, 844, 1661, 1184, 70809, 28054, 5200, 70810, 4300, 2554, 2542, 30254, 27827, 22790, 70
814, 1232, 15845, 10676, 2591, 1400, 1260, 5740, 43, 70816, 76, 35899, 55, 6130, 2680, 1
080, 23132, 70802, 996, 4363, 70803, 120, 74, 3206, 70811, 25344, 70817, 70808, 1998, 25
717, 45, 58585, 205, 13806, 70815, 768, 70813, 16, 1727, 33283, 1399, 8800, 24869, 135,
779, 70812]

9. What does the soup object's text look like? Use the .text method and print only the first 2,000 characters (do not print the whole thing, as it is too long).

```
In [13]:    print(soup.text[:2000].replace('\n\n',' ')) #printing the first 2000 characters.
```

   Top 100 | Project Gutenberg   Menu▾   About
              ▾ ▾
About Project Gutenberg
Collection Development
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History & Philosophy
Permissions & License
Privacy Policy
Terms of Use Search and Browse
              ▾ ▾
Book Search
Bookshelves
Frequently Downloaded
Offline Catalogs Help
              ▾ ▾
All help topics →
Copyright How-To
Errata, Fixes and Bug Reports
File Formats
Frequently Asked Questions
Policies →
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nload, and addresses that download more than 100 eBooks in a day are considered robots a
nd are not counted. Downloaded Books
2023-05-20206609
last 7 days1587785
last 30 days7437921 Top 100 EBooks yesterday
Top 100 Authors yesterday
Top 100 EBooks last 7 days
Top 100 Authors last 7 days
Top 100 EBooks last 30 days
Top 100 Authors last 30 days
Top 100 EBooks yesterday Romeo and Juliet by William Shakespeare (2699)
Moby Dick; Or, The Whale by Herman Melville (2423)
A Room with a View by E. M. Forster (2337)
Middlemarch by George Eliot (2305)
Little Women; Or, Meg, Jo, Beth, and Amy by Louisa May Alcott (2128)
The Complete Works of William Shakespeare by William Shakespeare (2094)
The Blue Castle: a novel by L. M. Montgomery (2046)

```
The Enchanted April by Elizabeth Von Arnim (2041)
The Adventures of Ferdinand Count Fathom — Complete by T.  Smollett (1923)
Cranford by Elizabeth Cleghorn Gaskell (1911)
The Expedition of Humphry Clinker by T.  Smollett (1891)
History of Tom Jones, a Foundling by Henry Fielding (1864)
The Adventures of Roderick Random by T.  Smollett (1861)
Twenty Years After by Alexandre Dumas (1806)
My Life — Volume 1 by Richard Wagner (1778)
Pride and Prejudice by Jane Aus
```

10. Search in the extracted text (using a regular expression) from the soup object to find the names of the top 100 eBooks (yesterday's ranking).

In [14]:
```python
soup.find_all('li')[31].a.get('href')
```

Out[14]:
```
'/ebooks/1513'
```

In [58]:
```python
x = (soup.find_all('ol')[0]).find_all('li')
x[:10]
```

Out[58]:
```
[<li><a href="/ebooks/1513">Romeo and Juliet by William Shakespeare (2699)</a></li>,
 <li><a href="/ebooks/2701">Moby Dick; Or, The Whale by Herman Melville (2423)</a></li>,
 <li><a href="/ebooks/2641">A Room with a View by E. M.  Forster (2337)</a></li>,
 <li><a href="/ebooks/145">Middlemarch by George Eliot (2305)</a></li>,
 <li><a href="/ebooks/37106">Little Women; Or, Meg, Jo, Beth, and Amy by Louisa May Alco
tt (2128)</a></li>,
 <li><a href="/ebooks/100">The Complete Works of William Shakespeare by William Shakespe
are (2094)</a></li>,
 <li><a href="/ebooks/67979">The Blue Castle: a novel by L. M.  Montgomery (2046)</a></l
i>,
 <li><a href="/ebooks/16389">The Enchanted April by Elizabeth Von Arnim (2041)</a></li>,
 <li><a href="/ebooks/6761">The Adventures of Ferdinand Count Fathom — Complete by T.  S
mollett (1923)</a></li>,
 <li><a href="/ebooks/394">Cranford by Elizabeth Cleghorn Gaskell (1911)</a></li>]
```

In [16]:
```python
i=0
for book in (soup.find_all('ol')[0]).find_all('li'):
    # Stop after 20 iterations, to keep this short
    i += 1
    if i >= 25:
        break
    else:
        print(book.text)
```

```
Romeo and Juliet by William Shakespeare (2699)
Moby Dick; Or, The Whale by Herman Melville (2423)
A Room with a View by E. M.  Forster (2337)
Middlemarch by George Eliot (2305)
Little Women; Or, Meg, Jo, Beth, and Amy by Louisa May Alcott (2128)
The Complete Works of William Shakespeare by William Shakespeare (2094)
The Blue Castle: a novel by L. M.  Montgomery (2046)
The Enchanted April by Elizabeth Von Arnim (2041)
The Adventures of Ferdinand Count Fathom — Complete by T.  Smollett (1923)
Cranford by Elizabeth Cleghorn Gaskell (1911)
The Expedition of Humphry Clinker by T.  Smollett (1891)
History of Tom Jones, a Foundling by Henry Fielding (1864)
The Adventures of Roderick Random by T.  Smollett (1861)
Twenty Years After by Alexandre Dumas (1806)
My Life — Volume 1 by Richard Wagner (1778)
Pride and Prejudice by Jane Austen (1249)
The Picture of Dorian Gray by Oscar Wilde (1002)
Frankenstein; Or, The Modern Prometheus by Mary Wollstonecraft Shelley (945)
Noli Me Tangere by José Rizal (816)
Alice's Adventures in Wonderland by Lewis Carroll (787)
Ang "Filibusterismo" (Karugtóng ng Noli Me Tangere) by José Rizal (701)
```

```
The slang dictionary : by John Camden Hotten (667)
The Yellow Wallpaper by Charlotte Perkins Gilman (590)
War and Peace by graf Leo Tolstoy (555)
```

11. Create a starting index. It should point at the text Top 100 Ebooks yesterday. Use the splitlines method of soup.text. It splits the lines of text of the soup object.

```
In [17]: #empty list of Ebook names
         titles_list_temp=[]

         start_index = soup.text.splitlines().index('Top 100 EBooks yesterday')
         start_index
```

Out[17]:
```
113
```

```
In [18]: soup.text.splitlines()[start_index:start_index+15]
```

Out[18]:
```
['Top 100 EBooks yesterday',
 'Top 100 Authors yesterday',
 'Top 100 EBooks last 7 days',
 'Top 100 Authors last 7 days',
 'Top 100 EBooks last 30 days',
 'Top 100 Authors last 30 days',
 '',
 '',
 'Top 100 EBooks yesterday',
 '',
 'Romeo and Juliet by William Shakespeare (2699)',
 'Moby Dick; Or, The Whale by Herman Melville (2423)',
 'A Room with a View by E. M.  Forster (2337)',
 'Middlemarch by George Eliot (2305)',
 'Little Women; Or, Meg, Jo, Beth, and Amy by Louisa May Alcott (2128)']
```

There is another row with "Top 100 EBooks yesterday"

12. Loop 1-100 to add the strings of the next 100 lines to this temporary list. Hint: use the splitlines method.

```
In [19]: for i in range(100):
             titles_list_temp.append(soup.text.splitlines()[start_index+2+i])
```

13. Use a regular expression to extract only text from the name strings and append it to an empty list. Use match and span to find the indices and use them. Note ###The solution for this activity can be found on page 315.

```
In [20]: # Use regular expression to extract only text from the name strings and append to an emp
         title_list=[] #Empty list
         for i in range(0,100):
             idx1,idx2=re.match('^[a-zA-Z ]*',titles_list_temp[i]).span()
             title_list.append(titles_list_temp[i][idx1:idx2])
```

```
In [62]: for title in title_list:
             print(title)
```

```
Top
Top
Top
Top


Top
```

Romeo and Juliet by William Shakespeare
Moby Dick
A Room with a View by E
Middlemarch by George Eliot
Little Women
The Complete Works of William Shakespeare by William Shakespeare
The Blue Castle
The Enchanted April by Elizabeth Von Arnim
The Adventures of Ferdinand Count Fathom
Cranford by Elizabeth Cleghorn Gaskell
The Expedition of Humphry Clinker by T
History of Tom Jones
The Adventures of Roderick Random by T
Twenty Years After by Alexandre Dumas
My Life
Pride and Prejudice by Jane Austen
The Picture of Dorian Gray by Oscar Wilde
Frankenstein
Noli Me Tangere by Jos
Alice
Ang
The slang dictionary
The Yellow Wallpaper by Charlotte Perkins Gilman
War and Peace by graf Leo Tolstoy
Dracula by Bram Stoker
The Great Gatsby by F
A Tale of Two Cities by Charles Dickens
The Importance of Being Earnest
The Adventures of Sherlock Holmes by Arthur Conan Doyle
The Count of Monte Cristo
Jane Austen and her works by Sarah Tytler
The Brothers Karamazov by Fyodor Dostoyevsky
Metamorphosis by Franz Kafka
The Terriford mystery by Marie Belloc Lowndes
Ulysses by James Joyce
Crime and Punishment by Fyodor Dostoyevsky
A Doll
The Romance of Lust
The Kama Sutra of Vatsyayana by Vatsyayana
The accomplisht cook by Robert May
After world
The Prince by Niccol
Florante at Laura by Francisco Balagtas
The Reign of Greed by Jos
Grimms
Great Expectations by Charles Dickens
Jane Eyre
Tractatus Logico
The Strange Case of Dr
Lost on Venus by Edgar Rice Burroughs
Adventures of Huckleberry Finn by Mark Twain
The Philippines a Century Hence by Jos
The Wonderful Wizard of Oz by L
The Iliad by Homer
Meditations by Emperor of Rome Marcus Aurelius
A Modest Proposal by Jonathan Swift
Marcia Schuyler by Grace Livingston Hill
The story of Eros
Don Quixote by Miguel de Cervantes Saavedra
Beyond Good and Evil by Friedrich Wilhelm Nietzsche
Darwin by Gamaliel Bradford
Treasure Island by Robert Louis Stevenson
The Adventures of Tom Sawyer
Moby Multiple Language Lists of Common Words by Grady Ward
Gloria
The Scarlet Letter by Nathaniel Hawthorne

```
Scream at midnight by Joseph Payne Brennan
Edith Lyle
Thus Spake Zarathustra
The History of the Decline and Fall of the Roman Empire by Edward Gibbon
Anne of Green Gables by L
The Prophet by Kahlil Gibran
Walden
Overland through Asia
Tarzan at the Earth
Wuthering Heights by Emily Bront
Hand
Peter Pan by J
The Odyssey by Homer
Calculus Made Easy by Silvanus P
Anna Karenina by graf Leo Tolstoy
The divine comedy by Dante Alighieri
The R
Les Mis
The Tragical History of Doctor Faustus by Christopher Marlowe
The dramatic instinct in children
Winnie
The Republic by Plato
Emma by Jane Austen
The War of the Worlds by H
The Hound of the Baskervilles by Arthur Conan Doyle
The Time Machine by H
```

Activity 10: Building Your Own Movie Database by Reading an API

1. Import urllib.request, urllib.parse, urllib.error, and json.

In [22]:
```python
import urllib.request, urllib.parse, urllib.error
import json
```

2. Load the secret API key (you have to get one from the OMDb website and use that; it has a daily limit of 1,000) from a JSON file stored in the same folder in a variable, by using json.loads.

Signed up and recieved the API key from "https://www.omdbapi.com/apikey.aspx"

3. Obtain a key and store it in JSON as APIkeys.json.

Saved the API key in a json file

4. Open the APIkeys.json file.

In [23]:
```python
with open('APIkeys.json') as f: #Got the API key into a json file
    keys = json.load(f)
    omdbapi = keys['OMDBapi']
```

5. Assign the OMDb portal (http://www.omdbapi.com/?) as a string to a variable.

In [24]:
```python
serviceurl = "http://www.omdbapi.com/?"
```

6. Create a variable called apikey with the last portion of the URL (&apikey=secretapikey), where secretapikey is your own API key.

In [25]:
```python
apikey = '&apikey='+omdbapi
```

7. Write a utility function called print_json to print the movie data from a JSON file (which we will get from the portal).

```
In [26]: def print_json(movie_data_json):
             header=['Title', 'Year', 'Rated', 'Released', 'Runtime', 'Genre', 'Director', 'Write
             print("-"*50)
             for key in movie_data_json:
                 print(key, ' : ', movie_data_json[key])
```

8. Write a utility function to download a poster of the movie based on the information from the JSON dataset and save it in your local folder. Use the os module. The poster data is stored in the JSON key Poster. Use the Python command to open a file and write the poster data. Close the file after you're done. This function will save the poster data as an image file.

```
In [27]: def save_poster(json_data):
             import os
             title = json_data['Title']
             poster_url = json_data['Poster']

             # Splits the poster url by '.' to get the image type (JPEG/PNG), and pick the last s
             #Generate file info and save image:
             poster_file_extension=poster_url.split('.')[-1]

             #Reading the poster image data by passing the poster link
             poster_data = urllib.request.urlopen(poster_url).read()

             savelocation=os.getcwd()+'\\'+'Posters'+'\\'

             # Creates new directory if the directory does not exist. Otherwise, just use the exi
             try:
                 if not os.path.isdir(savelocation):
                     os.mkdir(savelocation)
                     filename=savelocation+str(title)+'.'+poster_file_extension
                     f=open(filename,'wb')
                     f.write(poster_data)
                     f.close()
                     display(Image(filename=fileName))
             except:
                 print("Something went wrong. Image could not be saved.")
```

9. Write a utility function called search_movie to search for a movie by is name, print the downloaded JSON data, and save the movie poster in the local folder. Use a try-except loop for this. Use the previously created serviceurl and apikey variables. You have to pass on a dictionary with a key, t, and the movie name as the corresponding value to the urllib.parse.urlencode() function and then add the serviceurl and apikey to the output of the function to construct the full URL. This URL will be used to access the data. The JSON data has a key called Response. If it is True, that means the read was successful. Check this before processing the data. If it's not successful, then print the JSON key Error, which will contain the appropriate error message returned by the movie database.

```
In [28]: ## Function for searching
         def search_movie(title):
             try:
                 url = serviceurl + urllib.parse.urlencode({'t': str(title)})+apikey
                 print(f'Retrieving the data for the movie : {title}... ')
                 with urllib.request.urlopen(url) as url:
                     json_data = json.loads(url.read().decode()) #read the response and format to

                 #Check for errors before proceeding
                 if 'Error' not in json_data:
```

```
        #if json_data['Error'] == "":
            if json_data['Response']=='True': #Successful response
                print_json(json_data)
            if json_data['Poster']!='N/A':
                save_poster(json_data)
        else:
            print('Error encountered: ',json_data['Error'])

    except urllib.error.URLError as e:
        print(f'ERROR: {e.reason}')
```

In [29]:
```
#Writing a function to display the downloaded poster directly in Jupyter Notebook.
from IPython.display import Image, display

def show_image(movie_name):
    try:
        display(Image(filename = '{}.jpg'.format(movie_name)))
    except:
        print('ERROR!')
```

10. Test the search_movie function by entering Titanic.

In [30]:
```
search_movie('Titanic')
show_image('Titanic')
print(' ')
```

```
Retrieving the data for the movie : Titanic...
----------------------------------------------------
Title   :   Titanic
Year    :   1997
Rated   :   PG-13
Released :   19 Dec 1997
Runtime :   194 min
Genre   :   Drama, Romance
Director :   James Cameron
Writer  :   James Cameron
Actors  :   Leonardo DiCaprio, Kate Winslet, Billy Zane
Plot    :   A seventeen-year-old aristocrat falls in love with a kind but poor artist aboar
d the luxurious, ill-fated R.M.S. Titanic.
Language :   English, Swedish, Italian, French
Country :   United States, Mexico
Awards  :   Won 11 Oscars. 126 wins & 83 nominations total
Poster  :   https://m.media-amazon.com/images/M/MV5BMDdmZGU3NDQtY2E5My00ZTliLWIzOTUtMTY4Z
GI1YjdiNjk3XkEyXkFqcGdeQXVyNTA4NzY1MzY@._V1_SX300.jpg
Ratings :   [{'Source': 'Internet Movie Database', 'Value': '7.9/10'}, {'Source': 'Rotte
n Tomatoes', 'Value': '88%'}, {'Source': 'Metacritic', 'Value': '75/100'}]
Metascore :   75
imdbRating :   7.9
imdbVotes :   1,215,822
imdbID  :   tt0120338
Type    :   movie
DVD     :   08 Jan 2002
BoxOffice :   $674,292,608
Production :   N/A
Website :   N/A
Response :   True
```

11. Test the search_movie function by entering "Random_error" (obviously, this will not be found, and you should be able to check whether your error catching code is working properly).

```
In [31]:  #Testing to see if an error occurs
          search_movie('Whatt')
          show_image('Whatt')
```

```
Retrieving the data for the movie : Whatt...
Error encountered:  Movie not found!
ERROR!
```

3. Connect to an API of your choice and do a simple data pull - you can use any API - except the API you have selected for your project.

a. In previous versions of this course we have always used Twitter, but with recent organizational changes at Twitter, it has become increasingly difficult to access the free APIs available at Twitter. You are more than welcome to try to use Twitter's API for this portion of the assignment, but please note, there has been some inconsistency experienced when following along with their documentation posted.

b. Connect to the API and do a "Get" call/operation on the API to return a subset of data from the API

```
In [32]:  #Using the news api to Get and search for news from over 30,000 publications with this s
          #(for non commercial projects) API, you can query by keyword, publication or topic.
          url = "https://newsapi.org/v2/everything?"

          query = {'q': 'University',
                   'from': '2023-05-01',
                    'sortBy': 'publishedAt',
                   'apiKey': '9cba07dfd3de4b15a3718f9899d8a6fc'}

          url = url + urllib.parse.urlencode(query)
```

```python
with urllib.request.urlopen(url) as url:
    json_data = json.loads(url.read().decode()) #read the response and format to json
    print(json_data)
```

{'status': 'ok', 'totalResults': 35802, 'articles': [{'source': {'id': None, 'name': 'Daily Mail'}, 'author': 'Adrian Warren, Shayne Bugden', 'title': 'Aussie boxer Andrew Moloney is brutally knocked out by Junto Nakatani in world title fight', 'description': "His twin brother Jason won the WBO bantamweight title last weekend but Andrew wasn't so lucky, surviving two knockdowns before being knocked out cold by a devastating left hand.", 'url': 'https://www.dailymail.co.uk/sport/boxing/article-12107293/Aussie-boxer-Andrew-Moloney-brutally-knocked-Junto-Nakatani-world-title-fight.html', 'urlToImage': 'https://i.dailymail.co.uk/1s/2023/05/21/04/71227721-0-image-a-5_1684638621440.jpg', 'publishedAt': '2023-05-21T03:18:23Z', 'content': "A game Andrew Moloney was unable to equal the world title-winning achievement of his twin Jason as he was brutally knocked out in the 12th round by Japan's Junto Nakatani in Las Vegas.\r\nMoloney showe… [+2897 chars]"}, {'source': {'id': None, 'name': 'The Punch'}, 'author': 'Faith Ajayi', 'title': ''Why I left veterinary medicine for tailoring'', 'description': 'Fibafunjah Dosumu is a veterinary surgeon-turned- fashion designer. He tells FAITH AJAYI about his fashion outfit, FAAW Tell us about your journey to becoming a fashion designer. I am a third-generation fashion designer. My grandmother was a tailor and stylis…', 'url': 'https://punchng.com/why-i-left-veterinary-medicine-for-tailoring/', 'urlToImage': 'https://cdn.punchng.com/wp-content/uploads/2023/05/21022124/dosumu.jpg', 'publishedAt': '2023-05-21T03:18:03Z', 'content': 'Fibafunjah Dosumu is a veterinary surgeon-turned- fashion designer. 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Rendon/The Daily Beast/Getty/Christopher Boudewyn\r\nBonnie Milligan's Tony Award nomination was no surprise to her mother Jeanie. When Milligan was a teenager, Jeanie made her promise that when the day came—as only a devoted mothe…', 'url': 'https://www.thedailybeast.com/how-bonnie-milligan-fought-tooth-and-nail-to-reach-the-tony-awards', 'urlToImage': 'https://img.thedailybeast.com/image/upload/c_crop,d_placeholder_euli9k,h_1688,w_3000,x_0,y_0/dpr_2.0/c_limit,w_740/fl_lossy,q_auto/v1684470541/051923-bonniemilligan-hero_bz3wlg', 'publishedAt': '2023-05-21T03:05:18Z', 'content': 'Bonnie Milligans Tony Award nomination was no surprise to her mother Jeanie. When Milligan was a teenager, Jeanie made her promise that when the day cameas only a devoted mother can be sure that it w… [+27202 chars]'}, {'source': {'id': 'the-jerusalem-post', 'name': 'The Jerusalem Post'}, 'author': 'By NAVE DROMI', 'title': 'Abbas's war of instruction at the UN - opinion', 'description': 'In his twisted logic, Abbas thinks Israel's only remaining connection to sympathy is the Holocaust, so the more he can deconstruct it, the more he breaks down Israel's armor.', 'url': 'https://www.jpost.com/opinion/article-743668', 'urlToImage': 'https://images.jpost.com/image/upload/f_auto,fl_lossy/c_fill,g_faces:center,h_407,w_690/537856', 'publishedAt': '2023-05-21T03:03:25Z', 'content': 'Nazi propaganda chief Joseph Goebbels was quoted as saying: During a war, news should be given out for instruction rather than information.\r\nIt is therefore highly ironic and not a little instructive… [+5027 chars]'}, {'source': {'id': None, 'name': 'Daily Beast'}, 'author': 'Laura Bradley', 'title': 'How Actors and Writers Striking Together Could Change Everything', 'description': 'Photo Illustration by Elizabeth Brockway/The Daily Beast/Reuters\r\nSince the start of May, the hottest spot for celebrity sightings has been the Writers Guild of
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America's picket line.From star writers like Tina Fey and David Simon to A-list actors like Chris …', 'url': 'https://www.thedailybeast.com/sag-aftras-strike-vote-explained-will-actors-join-writers', 'urlToImage': 'https://img.thedailybeast.com/image/upload/c_crop,d_placeholder_euli9k,h_1688,w_3000,x_0,y_0/dpr_2.0/c_limit,w_740/fl_lossy,q_auto/v1684538056/230519-sag-wga-hero_y2ubii', 'publishedAt': '2023-05-21T03:03:00Z', 'content': 'Since the start of May, the hottest spot for celebrity sightings has been the Writers Guild of Americaspicket line.\r\nFrom star writers like Tina Fey and David Simon to A-list actors like Chris Pine, … [+6367 chars]'}, {'source': {'id': 'cbs-news', 'name': 'CBS News'}, 'author': 'Jim Axelrod', 'title': 'How a woman, left for dead, survived a violent home invasion', 'description': 'After being stabbed in the face, neck and chest, Donna Ongsiako mustered the strength to climb up a staircase, call 911 and describe her unlikely attacker for investigators.', 'url': 'https://www.cbsnews.com/news/donna-ongsiako-brennan-doyle-colts-neck-nj-violent-home-invasion-48-hours/', 'urlToImage': 'https://assets3.cbsnewsstatic.com/hub/i/r/2023/05/21/ca30b52a-486f-4547-9919-e617103969a2/thumbnail/1200x630/3942baa04b35a4446ff1539b9236f7f3/ongsiako-donna.jpg', 'publishedAt': '2023-05-21T03:00:20Z', 'content': 'Tiny Colts Neck, New Jersey, sits just 50 miles from New York City. But it might as well be a world away. In July 2013, this quiet community was rocked by news of a violent home invasion where the vi… [+36377 chars]'}, {'source': {'id': None, 'name': 'NDTV News'}, 'author': None, 'title': 'Bianca Censori Confirms Marriage To Kanye West In New Video', 'description': 'The 45-year-old rapper, who is legally known as Ye, married Bianca Censor earlier this year at a private ceremony.', 'url': 'https://www.ndtv.com/feature/bianca-censori-confirms-marriage-to-kanye-west-in-new-video-4052809', 'urlToImage': 'https://c.ndtvimg.com/2022-10/7n58ucd8_kanye-west-afp-650_625x300_27_October_22.jpg', 'publishedAt': '2023-05-21T02:51:22Z', 'content': "Ye was married to Kim Kardashianfrom 2014 until November 2022\r\nAfter months of speculation and rumours, American rapper Kanye West's new wife, Bianca Censori\xa0has broken her silence on marriage with t… [+1545 chars]"}, {'source': {'id': 'google-news', 'name': 'Google News'}, 'author': None, 'title': 'No. 24/23 Virginia Tech Eliminates No. 25 Softball, 9-0 - Boston University Athletics', 'description': 'No. 24/23 Virginia Tech Eliminates No. 25 Softball, 9-0\xa0\xa0Boston University Athletics', 'url': 'https://consent.google.com/ml?continue=https://news.google.com/rss/articles/CBMiX2h0dHBzOi8vZ290ZXJyaWVycy5jb20vbmV3cy8yMDIzLzUvMjAvbm8tMjQtMjMtdmlyZ2luaWEtdGVjaC1lbGltaW5hdGVzLW5vLTI1LXNvZnRiYWxsLTktMC5hc3B4P2oEA?oc%3D5&gl=FR&hl=en-US&cm=2&pc=n&src=1', 'urlToImage': None, 'publishedAt': '2023-05-21T02:48:39Z', 'content': 'We use cookies and data to<ul><li>Deliver and maintain Google services</li><li>Track outages and protect against spam, fraud, and abuse</li><li>Measure audience engagement and site statistics to unde… [+1131 chars]'}, {'source': {'id': None, 'name': 'The Punch'}, 'author': 'Tope Alabi', 'title': '12 dead, eight injured in Osun auto crash', 'description': 'A road accident that occurred along Ife-Ibadan express road in Osun State at the weekend has claimed 12 lives. According to the spokesperson of the state's Nigeria Security and Civil Defence Corps, NSCDC, Kehinde Adeleke, the accident left eight other persons…', 'url': 'https://punchng.com/12-dead-eight-injured-in-osun-auto-crash/', 'urlToImage': 'https://cdn.punchng.com/wp-content/uploads/2022/03/06160012/osun.jpeg', 'publishedAt': '2023-05-21T02:48:00Z', 'content': 'A road accident that occurred along Ife-Ibadan express road in Osun State at the weekend has claimed 12 lives.\r\nAccording to the spokesperson of the state's Nigeria Security and Civil Defence Corps, … [+496 chars]'}, {'source': {'id': None, 'name': 'The Boston Globe'}, 'author': 'From wire and staff reports', 'title': 'Mikayla Cable breaks tie with three-run triple in fifth, MIT softball wins NCAA Division 3 regional', 'description': 'The Engineers scored seven unanswered runs in the fifth and sixth to reach the Super Regionals for the third time.', 'url': 'https://www.bostonglobe.com/2023/05/20/sports/mikayla-cable-breaks-tie-with-three-run-triple-fifth-mit-softball-wins-ncaa-division-3-regional/', 'urlToImage': 'https://www.bostonglobe.com/pf/resources/images/logo-bg.jpg?d=410', 'publishedAt': '2023-05-21T02:42:11Z', 'content': 'Mikayla Cable hit a two-out bases-loaded triple in the fifth inning to drive in three runs and give MIT (35-6) a 5-2 lead en route to a 9-2 win over Simmons (27-16) in an NCAA Division 3 regional fin… [+1805 chars]'}, {'source': {'id': None, 'name': 'KQED'}, 'author': 'Kara Newhouse', 'title': 'Teens say social media is stressing them out. Here's how to help them', 'description': "Many parents are worried about their kids losing themselves for hours on their phones. Turns out, teens are troubled too. But they also know a lot about how to get unhooked. Here's how they do it.", 'url': 'https://www.kqed.org/mindshift/61671/teens-say-social-media-is-stressing-them-out-heres-how-to-help-them', 'urlToImage': 'https://ww2.kqed.org/app/uploads/sites/23/2023/05/teens-screens-promo_custom-119eefecaf79d960b0ffe95431a15b0a30bea4a2.jpg', 'publishedAt': '2023-05-21T02:39:58Z', 'content': 'The study, published in September, reveals a striking awareness about the potential harms social media can have on teenagers' mental health, but also their persistent attempts to counter these harms.… [+15615 chars]'}, {'source': {'id': None, 'name': 'New Zealand Herald'}, 'author': 'Luke Kirkness', 'title': 'ChatGP

T: How to get the most out of this AI', 'description': 'Plus 10 ways to use it to better yourself professionally.', 'url': 'https://www.nzherald.co.nz/bay-of-plenty-times/news/chatgpt-how-to-get-the-most-out-of-this-ai/6VQZIWIUXJFGTN6TRPYGTSAJGU/', 'urlToImage': 'https://www.nzherald.co.nz/resizer/oN372E0CB3S-sxZo1-rTwY3nVOc=/1200x675/smart/filters:quality(70)/cloudfront-ap-southeast-2.images.arcpublishing.com/nzme/CJDDWHOT2JEHTHDUKUAYNV5UIM.JPG', 'publishedAt': '2023-05-21T02:37:08Z', 'content': 'Artificial intelligence chatbot ChatGPT has the power to generate informative and engaging content.\r\nBut as anyone who has experimented with it will know, using it effectively requires more than just… [+9302 chars]'}, {'source': {'id': None, 'name': 'Card Chronicle'}, 'author': 'MattSefcovic', 'title': 'Louisville's season ends as Dan McDonnell comments on future', 'description': 'The Cards will not participate in their conference tournament for the first time since 1970.', 'url': 'https://www.cardchronicle.com/2023/5/20/23731516/louisvilles-season-ends-as-dan-mcdonnell-comments-on-future', 'urlToImage': 'https://cdn.vox-cdn.com/thumbor/PjkeiOXBbShEOnRNtM1LG5yn6SU=/0x23:1194x648/fit-in/1200x630/cdn.vox-cdn.com/uploads/chorus_asset/file/24671577/Screenshot_2023_05_20_at_10.17.50_PM.png', 'publishedAt': '2023-05-21T02:35:55Z', 'content': 'Photo by Annie Moore\r\n\n \n\n The Cards will not participate in their conference tournament for the first time since 1970. In order for Louisville (31-24, 10-20 ACC) to advance to the ACC Tournament, th… [+3797 chars]'}, {'source': {'id': 'abc-news-au', 'name': 'ABC News (AU)'}, 'author': 'Chloe Chomicki', 'title': "'The sky lit up first white then green': Astrophysicist confirms meteor sightings in Queensland", 'description': "It's\xa0estimated the meteor was between half a metre to a metre in size and would have been travelling within 100,000 to 150,000 kilometres per hour.", 'url': 'https://www.abc.net.au/news/2023-05-21/meteor-sighting-queensland/102374082', 'urlToImage': 'https://live-production.wcms.abc-cdn.net.au/9c2e6609ca7f349f671e8aa443622eb8?impolicy=wcms_crop_resize&cropH=938&cropW=1668&xPos=3&yPos=0&width=862&height=485', 'publishedAt': '2023-05-21T02:35:34Z', 'content': 'People across Queensland last night caught a rare glimpse of what an\xa0astrophysicist says can only be a meteor.\r\n<ul><li>People across Queensland have caught a rare glimpse of a\xa0meteor in the night sk… [+1865 chars]'}, {'source': {'id': None, 'name': 'Nacion.com'}, 'author': 'Shlomo Ben-Ami', 'title': 'La política exterior gaullista de Macron', 'description': 'El presidente francés actúa de manera audaz, unilateral y a veces polémica, tanto en su país como en el extranjero.', 'url': 'https://www.nacion.com/opinion/columnistas/la-politica-exterior-gaullista-de-macron/MQESPLFPFNDQLMKX4VSICRX3NE/story/', 'urlToImage': 'https://www.nacion.com/resizer/3Wq7E6Slax2wAVDMCzTRDxdfE6w=/1440x0/filters:format(jpg):quality(70)/cloudfront-us-east-1.images.arcpublishing.com/gruponacion/BPBXS7MRQZF77GRTLGMARC747M.jpg', 'publishedAt': '2023-05-21T02:35:00Z', 'content': 'La invasión rusa a gran escala de Ucrania del año pasado impulsó a Occidente no solo a oponerse al Kremlin, sino también a otros rivales, especialmente a una China cada vez más asertiva; pero el mes … [+6000 chars]'}, {'source': {'id': None, 'name': 'The Punch'}, 'author': 'Janet Ogundepo', 'title': 'Trust, understanding bedrock of our marriages – Couples married for 40 years', 'description': 'Janet Ogundepo speaks with couples who have been married for over 40 years on the secret to their long unions About three months into the wedding of Olowo and Florence Ojifinni, the N20 note was newly introduced as the highest denomination for cash transactio…', 'url': 'https://punchng.com/trust-understanding-bedrock-of-our-marriages-couples-married-for-40-years/', 'urlToImage': 'https://cdn.punchng.com/wp-content/uploads/2023/05/21032553/4o-yr-marriages.jpg', 'publishedAt': '2023-05-21T02:34:05Z', 'content': 'Janet Ogundepo speaks with couples who have been married for over 40 years on the secret to their long unions\r\nAbout three months into the wedding of Olowo and Florence Ojifinni, the N20 note was new… [+20497 chars]'}, {'source': {'id': None, 'name': 'CleanTechnica'}, 'author': 'Guest Contributor', 'title': 'A Toxic Tour Helps Convey What Fenceline Communities Experience', 'description': 'Three colleagues from the Union of Concerned Scientists and I were invited to participate in a Toxics Tour in Kansas City. The experience was extremely valuable and I recommend it, especially if you are someone like me who works on environmental justice issue…', 'url': 'https://cleantechnica.com/2023/05/20/a-toxic-tour-helps-convey-what-fenceline-communities-experience/', 'urlToImage': 'http://cleantechnica.com/files/2023/04/Pollution-Air-Quality-CleanTechnica-Watermark.png', 'publishedAt': '2023-05-21T02:33:52Z', 'content': 'Three colleagues from the Union of Concerned Scientists and I were invited to participate in a Toxics Tour in Kansas City. The experience was extremely valuable and I recommend it, especially if you … [+8882 chars]'}, {'source': {'id': None, 'name': 'The Punch'}, 'author': 'Blessing Enenaite', 'title': 'Tokunbo Wahab marks 51st birthday 'under the radar'', 'description': 'Tokunbo Wahab, the Special Adviser on Education to the Lagos State Governor, Babajide Sanwo-Olu, turned 51 on Wednesday, May 17, 2023. Though his 50th birthday was celebrated in a flamboyant style, he decided to mark his special day quietly this year. Known t…', 'url': 'https://punchng.com/tokunbo-wahab-marks-51st-birthday-under-the-radar/', 'urlToImage': 'https://cdn.punchng.com/wp-content/uploads/2021/12/28012505/Adetokunbo-Wahab.jpg', 'publishe

dAt': '2023-05-21T02:26:22Z', 'content': 'Tokunbo Wahab, the Special Adviser on Education to the Lagos State Governor, Babajide Sanwo-Olu, turned 51 on Wednesday, May 17, 2023.\r\nThough his 50th birthday was celebrated in a flamboyant style, … [+761 chars]'},
 {'source': {'id': None, 'name': 'KQED'}, 'author': 'Kara Newhouse', 'title': 'A high school senior's science project could use AI to prevent suicides', 'description': 'An 18-year-old from Texas created an app using artificial intelligence that may someday help detect suicide risk.', 'url': 'https://www.kqed.org/mindshift/61665/this-high-school-seniors-science-project-could-use-ai-to-prevent-suicides', 'urlToImage': 'https://ww2.kqed.org/app/uploads/sites/23/2023/05/ai-teenmentalhealth_npr_final_slide-6bee6134cb384e9ebaff9960bf1549af24d4a14e-1020x680.jpg', 'publishedAt': '2023-05-21T02:19:03Z', 'content': 'For a local science fair, he designed an app that uses AI to scan text for signs of suicide risk. He thinks it could, someday, help replace outdated methods of diagnosis.\r\n"Our writing patterns can r… [+6014 chars]'}, {'source': {'id': None, 'name': 'People.cn'},
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 'author': 'IANS', 'title': 'Heatwave in 18 UP districts till Monday, warning issued: IMD official', 'description': 'The India Meteorological Department (IMD) has issued a heatwave warning for 18 districts in Uttar Pradesh for the next 48 hours (Sunday and Monday), an IMD official said.', 'url': 'https://www.business-standard.com/india-news/heatwave-in-18-up-districts-till-monday-warning-issued-imd-official-123052100133_1.html', 'urlToImage': 'https://bsmedia.business-standard.com/_media/bs/img/article/2022-06/04/full/1654360916-4552.jpg', 'publishedAt': '2023-05-21T02:03:03Z', 'content': 'The India Meteorological Department (IMD) has issued a heatwave warning for 18 districts in Uttar Pradesh for the next 48 hours (Sunday and Monday), an IMD official said.\r\nThe IMD said that the day t… [+3119 chars]'}, {'source': {'id': None, 'name': 'NBCSports.com'}, 'author': 'Mike Florio', 'title': 'Brett Favre asks Mississippi Supreme Court to dismiss him from civil case over welfare funds', 'description': 'While Hall of Fame quarterback Brett Favre continues to deal with the possibility of a criminal indictment, he's still fighting the reality of a civil suit.Favre recently took to the Mississippi Supreme Court his effort to be dismissed from a lawsuit aimed at…', 'url': 'https://profootballtalk.nbcsports.com/2023/05/20/brett-favre-asks-mississippi-supreme-court-to-dismiss-him-from-civil-case-over-welfare-funds/', 'urlToImage': 'https://profootballtalk.nbcsports.com/wp-content/uploads/sites/25/2023/05/GettyImages-1402384510-e1684634439315.jpg', 'publishedAt': '2

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The study explains, at least in part, how vitamin K helps prevent diabetes, and could lead to new therapeuti…', 'url': 'https://freerepublic.com/focus/f-chat/4154741/posts', 'urlToImage': None, 'publishedAt': '2023-05-21T01:45:02Z', 'content': 'Skip to comments.\r\nNew research reveals how vitamin K helps protect against diabetes (Pancreatic beta cells need it)Medical Xpress / University of Montreal / Cell Reports ^\r\n | May 18, 2023\r\n | Julie… [+3228 chars]'}, {'source': {'id': None, 'name': 'The Times of Israel'}, 'author': None, 'title': 'Martin Amis, a second-generation literary lion', 'description': "Famed British novelist, author of 1984's 'Money' -- one of the books that summed up a generation -- died Friday at the age of 73", 'url': 'https://www.timesofisrael.com/martin-amis-a-second-generation-literary-lion/', 'urlToImage': 'https://static.timesofisrael.com/www/uploads/2023/05/AP23140683971422-1024x640.jpg', 'publishedAt': '2023-05-21T01:41:36Z', 'content': 'PARIS, France (AFP) — One of the burdens of having a famous father is trying to measure up to him in the same field.\r\nBritish writer Martin Amis, who has died at the age of 73, not only matched his i… [+4466 chars]'}, {'source': {'id': 'next-big-future', 'name': 'Next Big Future'}, 'author': 'Brian Wang', 'title': 'Super General Intelligence Versus A Non-Fragile Civilization', 'description': 'The increase in the capabilities of Artificial Intelligence has increased fears of the risks of uncontrollable AI. There has been a call to pause AI experiments. However, many of those who signed the letter, like Elon Musk, knew that there was no chance for a…', 'url': 'https://www.nextbigfuture.com/2023/05/super-general-intelligence-versus-a-non-fragile-civilization.html', 'urlToImage': 'https://nextbigfuture.s3.amazonaws.com/uploads/2023/05/Screen-Shot-2023-05-20-at-6.40.38-PM.jpg', 'publishedAt': '2023-05-21T01:41:22Z', 'content': 'The increase in the capabilities of Artificial Intelligence has increased fears of the risks of uncontrollable AI.\r\nThere has been a call to pause AI experiments. However, many of those who signed th… [+4683 chars]'}, {'source': {'id': None, 'name': 'Freerepublic.com'}, 'author': 'People', 'title': "Champion College Waterskier Michael 'Micky' Geller Dead at 18: 'Overwhelmed with Sadness", 'description': 'Michael "Micky" Geller, an 18-year-old champion waterskier and student at the University of Louisiana at Lafayette, died "suddenly" earlier this month. Water Ski Canada and Geller\'s college announced his May 6 death on Facebook this week, remembering his "ama…', 'url': 'https://freerepublic.com/focus/f-chat/4154738/posts', 'urlToImage': None, 'publishedAt': '2023-05-21T01:37:48Z', 'content': "Skip to comments.\r\nChampion College Waterskier Michael 'Micky' Geller Dead at 18: 'Overwhelmed with SadnessPeople ^\r\n | 5/20/23\r\n | Brenton Blanchet\r\nPosted on 05/20/2023 6:37:48 PM PDT by bray\r\nMich… [+1773 chars]"}, {'source': {'id': None, 'name': 'fox6now.com'}, 'author': 'Stephanie Quirk', 'title': 'Cardinal Stritch holds final commencement Mass before closing', 'description': 'Cardinal Stritch University held its final commencement Mass Saturday night, May 20.', 'url': 'https://www.fox6now.com/news/cardinal-stritch-final-commencement-mass', 'urlToImage': 'https://images.foxtv.com/static.fox6now.com/www.fox6now.com/content/uploads/2023/04/1280/720/sk.jpg?ve=1&tl=1', 'publishedAt': '2023-05-21T01:30:32Z', 'content': "GLENDALE, Wis. - Cardinal Stritch University held its final commencement Mass Saturday night, May 20.\r\nDespite the school's permanent closure, both alumni and staff said they will carry the universit… [+334 chars]"}, {'source': {'id': None, 'name': 'Independent.ie'}, 'author': "Wayne O'Connor", 'title': 'Protected disclosure sent to UL chancellor Mary Harney over €8m purchase of Dunnes site was not formally investigated', 'description': 'A protected disclosure made to University of Limerick (UL) chancellor Mary Harney three years ago — regarding a controversial €8m land deal — was not formally investigated by the college.', 'url': 'https://www.independent.ie/irish-news/protected-disclosure-sent-to-ul-chancellor-mary-harney-over-8m-purchase-of-dunnes-site-was-not-formally-investigated/a779397152.html', 'urlToImage': 'https://focus.independent.ie/thumbor/gyluvOmnTBXXCwy2NRYdwuRrCOM=/0x0:960x640/960x640/prod-mh-ireland/a71810db-89cd-47e6-8759-9479b5738496/6eec92ee-93b9-40c8-8158-a787010d1cb3/a71810db-89cd-47e6-8759-9479b5738496.jpg', 'publishedAt': '2023-05-21T01:30:00Z', 'content': 'Minister urged to step in over hasty move to drop city centre campus plan and buy different site branded a complete waste of taxpayers money\r\nA protected disclosure made to University of Limerick (UL… [+124 chars]'}, {'source': {'id': None, 'name': 'Independent.ie'}, 'author': 'Rodney Edwards,An Garda Síochána', 'title': 'Joe Deacy mystery death: Family hopes for justice after meeting gardaí', 'description': 'The family of a 21-year-old man who died after sustaining severe head injuries in Co Mayo six years ago has expressed "cautious optimism" about getting justice for him after a recent meeting with gardaí.', 'url': 'https://www.independent.ie/irish-news/joe-deacy-mystery-death-family-hopes-for-justice-after-meeting-gardai/a307135860.html', 'urlToImage': 'https://focus.independent.ie/thumbor/wVfPU2PkOGHc5nkF05cJJ5kKGfM=/0x136:748x634/748x498/prod-mh-ireland/fd99fca7-0405-43d8-a5a3-bc7742ca9a4f/ecd6111b-cccc-49c0-a945-100a666eac21/SN%20Deacy%20Keegan.jpg', 'p

ublishedAt': '2023-05-21T01:30:00Z', 'content': 'The 21-year-old from St Albans near London was found with severe head injuries outside a house in Co Mayo in 2017 and later died in Beaumont HospitalThe family of a 21-year-old man who died after sus… [+4099 chars]'}, {'source': {'id': None, 'name': 'Independent.ie'}, 'author': 'People & Culture Magazine', 'title': 'Poet Andrew Motion: 'Very occasionally, and with a reasonably clear conscience, I give up on novels'', 'description': 'Andrew Motion was UK Poet Laureate from 1999 to 2009 and is co-founder of the online Poetry Archive. In 2015 he was appointed Homewood Professor in the Arts at Johns Hopkins University, and he lives in Baltimore, USA. His memoir Sleeping on Islands: A Life in…', 'url': 'https://www.independent.ie/entertainment/books/poet-andrew-motion-very-occasionally-and-with-a-reasonably-clear-conscience-i-give-up-on-novels/a825265004.html', 'urlToImage': 'https://focus.independent.ie/thumbor/nRCKj7-gVAHIgMLoh8CNBBMgZg4=/0x55:3075x2105/3075x2050/prod-mh-ireland/85d428f2-6482-49f5-905e-19390075c8f6/64250e58-c232-49a0-8c45-477a3c04b2ec/85d428f2-6482-49f5-905e-19390075c8f6.jpg', 'publishedAt': '2023-05-21T01:30:00Z', 'content': 'My Life in Books\r\nAndrew Motion was UK Poet Laureate from 1999 to 2009 and is co-founder of the online Poetry Archive. In 2015 he was appointed Homewood Professor in the Arts at Johns Hopkins Univers… [+178 chars]'}, {'source': {'id': None, 'name': 'Independent.ie'}, 'author': 'Letters to the Editor', 'title': 'Letters: GAA gods used to enthrall us and make stubborn mules toe the line — now they just have to have GAAGO', 'description': 'Sir — After a full week of pleading, I convinced my father to bring me to the Munster final between Cork and Limerick in 1947. It was on in Thurles, but that wasn't where we were headed...', 'url': 'https://www.independent.ie/opinion/letters/letters-gaa-gods-used-to-enthrall-us-and-make-stubborn-mules-toe-the-line-now-they-just-have-to-have-gaago/a1078677231.html', 'urlToImage': 'https://focus.independent.ie/thumbor/ac30JwDetlj5Edr_g-tdFCvgXd0=/0x5:1765x1184/1765x1179/prod-mh-ireland/f8dc36fc-81bb-445d-9143-dba24e311336/34a3f352-3ad6-4641-99d7-2b6097fdb68c/f8dc36fc-81bb-445d-9143-dba24e311336.jpg', 'publishedAt': '2023-05-21T01:30:00Z', 'content': 'Sir After a full week of pleading, I convinced my father to bring me to the Munster final between Cork and Limerick in 1947. 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In an email interview with … [+5223 chars]'}, {'source': {'id': None, 'name': 'Thehillstimes.in'}, 'author': 'The Hills Times', 'title': 'Women get livelihood enhancement training under SITA in Nalbari', 'description': 'HT Bureau GUWAHATI, May 20:\xa0State Innovation and Transformation Aayog (SITA) vice-chairman Ramen Deka attended the closing ceremony of a two-day training programme of the project – 'Integrated Approaches for Women Empowerment Adopting Scientific Organised Goa…', 'url': 'https://thehillstimes.in/assam/women-get-livelihood-enhancement-training-under-sita-in-nalbari', 'urlToImage': 'https://thehillstimes.in/wp-content/uploads/2023/05/Training-of-women-beneficiary-under-livelihood-enhancement-project-of-SITA-at-Nalbari-1.jpg', 'publishedAt': '2023-05-21T01:25:14Z', 'content': 'HT BureauGUWAHATI, May 20:\xa0State Innovation and Transformation Aayog (SITA) vice-chairman Ramen Deka attended the closing ceremony of a two-day training programme of the project Integrated Approaches… [+1349 chars]'}, {'source': {'id': None, 'name': 'The Punch'}, 'author': 'Josephine Ogundeji', 'title': 'Many people don't know how to manage failure — Olaniyan', 'description': 'The Chief Executive Officer of Yellowlyfe Company, Seyi Olaniyan, tells JOSEPHINE OGUNDEJI about his career and other issues What influenced your decision to veer into the lifestyle and tourism sector? It was accidental. Yellowlyfe started as a blog. The simp…', 'url': 'https://punchng.com/__trashed-62/', 'urlToImage': 'https://cdn.punchng.com/wp-content/uploads/2023/05/21022048/olaniyan1.jpg', 'publishedAt': '2023-05-21T01:24:01Z', 'content': 'The Chief Executive Officer of Yellowlyfe Company, Seyi Olaniyan, tells JOSEPHINE OGUNDEJI about his career and other issues\r\nWhat influenced your decision to veer into the lifestyle and tourism sect… [+6656 chars]'}, {'source': {'id': None, 'name': 'Universe Today'}, 'author': 'Matt Williams', 'title': 'Remember Those Impossibly Massive Galaxies? They May Be Even More Massive', 'description': 'A new analysis of those James Webb images showed that the galaxies it observed (deemed "too massive") could be even more massive than we thought!\nThe post Remember Those Impossibly Massive Galaxies? 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'urlToImage': 'https://www.universetoday.com/wp-content/uploads/2022/07/main_image_deep_field_smacs0723-5mb-scaled.jpg', 'publishedAt': '2023-05-21T01:16:35Z', 'content': 'The James Webb Space Telescope (JWST) was designed to probe the mysteries of the Universe, not the least of which is what the first galaxies looked like. These galaxies formed during the Epoch of Rei… [+6067 chars]'}, {'source': {'id': None, 'name': 'Khabarhub.com'}, 'author': 'Khabarhub', 'title': 'Quad Summit at G7 reaffirms support for Indo-Pacific', 'description': 'HIROSHIMA: U.S. President Joe Biden met on the sidelines of the G-7 meeting Saturday in Hiroshima with the other three heads of state at the Quad Leader's Summit. The Quad leaders from the United States, Australia, Japan and India quickly rescheduled their ta…', 'url': 'https://english.khabarhub.com/2023/21/304557/', 'urlToImage': 'https://english.khabarhub.com/wp-content/uploads/2023/05/G7-Japan_AP.jpg', 'publishedAt': '2023-05-21T01:16:09Z', 'content': 'From L: U.S. President Joe Biden, Australian Prime Minister Anthony Albanese, Japanese Prime Minister Fumio Kishida, and Indian Prime Minister Narendra Modi pause for a photo during the G-7 summit in… [+2730 chars]'}, {'source': {'id': None, 'name': 'The Star Online'}, 'author': 'The Star Online', 'title': 'East Timor heads to the polls in parliamentary election', 'description': 'JAKARTA (Reuters) - East Timorese voters headed to the polls on Sunday in a parliamentary election that analysts said would likely see two resistance-era figures battle to be prime minister. Read full story', 'url': 'https://www.thestar.com.my/news/world/2023/05/21/east-timor-heads-to-the-polls-in-parliamentary-election', 'urlToImage': 'https://apicms.thestar.com.my/uploads/images/2023/05/21/2083229.jpg', 'publishedAt': '2023-05-21T01:13:00Z', 'content': "FILE PHOTO: East Timor's Prime Minister Jose Maria de Vasconcelos, known as Taur Matan Ruak, arrives at the ASEAN Summit held in Labuan Bajo, East Nusa Tenggara province, Indonesia, May 10, 2023. REU… [+1690 chars]"}, {'source': {'id': None, 'name': 'The Punch'}, 'author': 'Blessing Enenaite', 'title': 'Primary school teacher inspired me to become pilot — Ado Sanusi', 'description': 'Captain Ado Sanusi is the Chief Executive Officer of Aero Contractors Company of Nigeria Limited, and a former CEO of the Nigerian Airspace Management Agency. He tells BLESSING ENENAITE about his career, achievements and other issues What influenced your deci…', 'url': 'https://punchng.com/primary-school-teacher-inspired-me-to-become-pilot-ado-sanusi/', 'urlToImage': 'https://cdn.punchng.com/wp-content/uploads/2023/05/21020805/Ado-Sanusi1.jpg', 'publishedAt': '2023-05-21T01:11:54Z', 'content': 'Captain Ado Sanusi is the Chief Executive Officer of Aero Contractors Company of Nigeria Limited, and a former CEO of the Nigerian Airspace Management Agency. He tells BLESSING ENENAITE about his car… [+18470 chars]'}, {'source': {'id': None, 'name': 'Elcomercio.com'}, 'author': 'Kevin Puga, Redacción Elcomercio.com', 'title': 'Universitaria compara los exámenes de España y Estados Unidos ¿Cuáles son más fáciles?', 'description': 'Una estudiante comparó los exámenes universitarios entre España y Estados Unidos a través de un video de TikTok.', 'url': 'https://www.elcomercio.com/tendencias/curiosidades/universitaria-compara-examenes-espana-estados-unidos.html', 'urlToImage': 'https://www.elcomercio.com/wp-content/uploads/2023/05/universitaria-compara-examenes-espana-estados-unidos.jpg', 'publishedAt': '2023-05-21T01:10:47Z', 'content': 'Imagen referencial. La española que estudia en Estados Unidos explicó la diferencia académica entre los países. Foto: FreepikUna estudiante comparó los exámenes universitarios entre España y Estados … [+1241 chars]'}, {'source': {'id': None, 'name': '10TV'}, 'author': 'Associated Press', 'title': 'More states are requiring patients to give consent for medical students performing pelvic exams', 'description': 'Montana's governor signed a bill in April, Missouri has legislation that needs the governor's signature to become law and Ohio lawmakers are also considering it.', 'url': 'https://www.10tv.com/article/news/health/states-are-requiring-patients-to-give-consent-for-medical-students-performing-pelvic-exams/530-e4244ea3-cb63-4f4c-88a1-1c381234088a', 'urlToImage': 'https://media.tegna-media.com/assets/WBNS/images/d3d30bf1-73b1-46eb-8b16-cd9c8aee3922/d3d30bf1-73b1-46eb-8b16-cd9c8aee3922_1140x641.jpg', 'publishedAt': '2023-05-21T01:07:12Z', 'content': 'COLUMBUS, Ohio A new batch of states are looking to legislate the level of informed consent when it comes to medical students performing pelvic exams for educational purposes on unconscious patients.… [+5696 chars]'}, {'source': {'id': None, 'name': 'Marketscreener.com'}, 'author': 'Reuters', 'title': 'East Timor heads to the polls in parliamentary election', 'description': '(marketscreener.com) East Timorese voters headed to the polls on Sunday in a parliamentary election that analysts said would likely see two resistance-era figures battle to be prime minister.https://www.marketscreener.com/news/latest/East-Timor-heads-to-the-p…', 'url': 'https://www.marketscreener.com/news/latest/East-Timor-heads-to-the-polls-in-parliamentary-election--43908307/?utm_medium=RSS&utm_content=20230521', 'urlToImage': 'https://img.zonebourse.com/reuters/2023-05/2023-05-21T010435Z_1_LYNXMPEJ4K00P_RTROPTP_3_TIMOR-POLITICS.JPG', 'publishedAt': '2023-05-21T01:04:35Z', 'content': 'JAKARTA (Reuters) - East Timorese voters headed to the polls on Sunday in a parliamentary election that analysts said would likely see two resistance-era figures battle to be prime minister.\r\n Sunday… [+1465 chars]'}, {'source': {'id': None, 'name': 'Tennessea

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Ms Gillard previously voted against same-sex marriage legislation in ...\nThe post 'I Got It Wrong' On Same-Sex Marriag…', 'url': 'https://www.starobserver.com.au/news/i-got-it-wrong-on-same-sex-marriage-julia-gillard-admits/223965', 'urlToImage': 'https://www.starobserver.com.au/wp-content/uploads/2023/05/julia-gillard.jpg', 'publishedAt': '2023-05-21T01:00:33Z', 'content': 'Former prime minister Julia Gillard has acknowledged she got it incredibly wrong for opposing same-sex marriage during her time in office.\r\nMs Gillard previously voted against same-sex marriage legis… [+1670 chars]'}, {'source': {'id': None, 'name': 'Daily Mail'}, 'author': 'Jacqueline Lindenberg', 'title': "Helena Christensen and ex Norman Reedus reunite to celebrate their son Mingus' graduation from NYU", 'description': 'Supermodel Helena Christensen and her ex, Norman Reedus, reunited to celebrate and cheer on their son, Mingus, as he graduated from New York University Tisch School of the Arts.', 'url': 'https://www.dailymail.co.uk/tvshowbiz/article-12107057/Helena-Christensen-ex-Norman-Reedus-reunite-celebrate-son-Mingus-graduation-NYU.html', 'urlToImage': 'https://i.dailymail.co.uk/1s/2023/05/21/01/71225663-0-image-a-37_1684628928059.jpg', 'publishedAt': '2023-05-21T01:00:16Z', 'content': "Helena Christensen and her ex, Norman Reedus, reunited to celebrate their son\xa0 Mingus' graduation from New York University in the star's latest Instagram post uploaded on Saturday.\xa0\r\nThe Danish model… [+5784 chars]"}, {'source': {'id': None, 'name': 'GlobeNewswire'}, 'author': 'Micron Technology, Inc.', 'title': 'Micron Launches U.S.-Japan University Partnership for Workforce Advancement and Research & Development in Semiconductors (UPWARDS) for the Future', 'description': 'Eleven-university strong network to grow the next-generation workforce and advance semiconductor-based research in both countries Eleven-university strong network to grow the next-generation workforce and advance semiconductor-based research in both countries', 'url': 'https://www.globenewswire.com/news-release/2023/05/21/2672883/14450/en/Micron-Launches-U-S-Japan-University-Partnership-for-Workforce-Advancement-and-Research-Development-in-Semiconductors-UPWARDS-for-the-Future.html', 'urlToImage': 'https://ml.globenewswire.com/Resource/Download/e43481ef-6679-4e19-a04e-0acc19898da7', 'publishedAt': '2023-05-21T01:00:00Z', 'content': 'HIROSHIMA, Japan, May 20, 2023 (GLOBE NEWSWIRE) -- Micron Technology, Inc., the largest foreign investor in Japan over the last five years, today announced the launch of the U.S.-Japan University Par… [+14490 chars]'}, {'source': {'id': 'google-news', 'name': 'Google News'}, 'author': None, 'title': 'Virginia Tech softball beats Boston University to make NCAA regional final - Roanoke Times', 'description': 'Virginia Tech softball beats Boston University to make NCAA regional final\xa0\xa0Roanoke Times', 'url': 'https://consent.google.com/ml?continue=https://news.google.com/rss/articles/CBMipwFodHRwczovL3JvYW5va2UuY29tL3Nwb3J0cy9jb2xsZWdlL3ZhX3RlY2gvdmlyZ2luaWEtdGVjaC1zb2Z0YmFsbC1iZWF0cy1ib3N0b24tdW5pdmVyc2l0eS1tYWtlLW5jYWEtcmVnaW9uYWwtYWwtZmluaWUwWwvYXJ0aWNsZV9jY2EyMzAyMC1mNzVlLTExZWQtOGUxOC00YjViOWYjN2JmMmQuaHRtbBIAAA?oc%3D5&gl=FR&hl=en-US&cm=2&pc=n&src=1', 'urlToImage': None, 'publishedAt': '2023-05-21T01:00:00Z', 'content': 'We use cookies and data to<ul><li>Deliver and maintain Google services</li><li>Track outages and protect against spam, fraud, and abuse</li><li>Measure audience engagement and site statistics to unde… [+1131 chars]'}, {'source': {'id': None, 'name': 'Politicalwire.com'}, 'author': 'Taegan Goddard', 'title': 'McCarthy Says He'll Wait for Biden to Return', 'description': '"Speaker Kevin McCarthy (R-CA) signaled on Saturday that he doesn't think debt limit negotiations can move forward until President Biden returns to Washington," The Hill reports.', 'url': 'https://politicalwire.com/2023/05/20/mccarthy-says-hell-wait-for-biden-to-return/', 'urlToImage': 'https://politicalwire.com/wp-content/uploads/2018/02/PW-podcast-logo.jpg', 'publishedAt': '2023-05-21T00:59:06Z', 'content': '"There are a lot of blogs and news sites claiming to understand politics, but only a few actually do. 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Abby Venhaus wouldn't have had a disappointing career if she didn't become Columbia High School's first track and field state champion Saturday.\r\nBut the senior definitely felt a lit… [+8870 chars]"}, {'source': {'id': None, 'name': 'Daily Mail'}, 'author': 'Ashlie Mcanally, Craig Mcdonald', 'title': 'Humza Yousaf FINALLY admits trans butcher Andrew Miller should be sent to a male prison', 'description': 'Last week Andrew Miller, who also identifies as Amy George, confessed to dressing as a woman when he kidnapped a schoolgirl and subjected her to an ordeal while holding her captive.', 'url': 'https://www.dailymail.co.uk/news/article-12107107/Humza-Yousaf-FINALLY-admits-trans-butcher-Andrew-Miller-sent-male-prison.html', 'urlToImage': 'https://i.dailymail.co.uk/1s/2023/05/21/01/71226047-0-image-a-111_1684630268505.jpg', 'publishedAt': '2023-05-21T00:54:58Z', 'content': "A transgender\xa0butcher who abducted and sexually assaulted a schoolgirl should never serve time in a women's prison, the First Minister finally admitted yesterday.\r\nLast week Andrew Miller, who also i… [+4296 chars]"}, {'source': {'id': None, 'name': 'Politicalwire.com'}, 'author': 'Taegan Goddard', 'title': 'GOP Rejects White House Offer to Limit Spending', 'description': '"Republican negotiators rejected a White House offer to limit spending next year on both the military and a wide range of critical domestic programs as part of high-stakes negotiations over the federal debt ceiling," the New York Times reports."Republicans ar…', 'url': 'https://politicalwire.com/2023/05/20/gop-rejects-white-house-offer-to-limit-spending/', 'urlToImage': 'https://politicalwire.com/wp-content/uploads/2018/02/PW-podcast-logo.jpg', 'publishedAt': '2023-05-21T00:54:56Z', 'content': '"There are a lot of blogs and news sites claiming to understand politics, but only a few actually do. Political Wire is one of them."\r\n Chuck Todd, host of "Meet the Press"\r\n"Concise. Relevant. To th… [+594 chars]'}, {'source': {'id': None, 'name': 'Daily Beast'}, 'author': 'Rotimi Adeoye', 'title': 'The Ron DeSantis Presidential Campaign Kicked Off Already…in 1964', 'description': "Photo Illustration by Erin O'Flynn/The Daily Beast/Getty Images\r\nIt's becoming increasingly obvious that Florida Gov. Ron DeSantis is on the precipice of officially launching a presidential campaign. From his recent trips to crucial states like New Hampshire …", 'url': 'https://www.thedailybeast.com/the-ron-desantis-campaign-kicked-off-alreadyin-1964', 'urlToImage': 'https://img.thedailybeast.com/image/upload/c_crop,d_placeholder_euli9k,h_1688,w_3000,x_0,y_0/dpr_2.0/c_limit,w_740/fl_lossy,q_auto/v1684614536/230520-adeoye-ron-desantis-goldwater-hero_hwivmv', 'publishedAt': '2023-05-21T00:54:21Z', 'content': 'Its becoming increasingly obvious that Florida Gov. 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He succeeds Prabhuling K Navadgi, who served as AG during the previous BJP regime. Shetty is an alumnus of National Law School of India University (NLSIU) where he …', 'url': 'https://timesofindia.indiatimes.com/city/bengaluru/shashi-kiran-shetty-is-new-ag-of-karnataka/articleshow/100388555.cms', 'urlToImage': 'https://static.toiimg.com/thumb/msid-100388564,width-1070,height-580,imgsize-18168,resizemode-75,overlay-toi_sw,pt-32,y_pad-40/photo.jpg', 'publishedAt': '2023-05-21T00:35:51Z', 'content': "In MP's Bandhavgarh, signs of 2,000-year-old 'modern society'"}, {'source': {'id': None, 'name': 'VOA News'}, 'author': 'webdesk@voanews.com (VOA News)', 'title': 'US Education Lands International Student Dream Career', 'description': 'A Nigerian student who earned a graduate degree at the University of Arkansas Little Rock has scored a job as a data engineer at American Express.\n\n\n"Coming in as an international student, it's like a dream come true for me," Ifeanyichukwu Umoga said. 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But recently, many prestigious medical and law schools, as well as undergraduate colleges, have opted out of the … [+250 chars]'}, {'source': {'id': None, 'name': 'Thehillstimes.in'}, 'author': 'The Hills Times', 'title': 'Yogic science students complete internship programme', 'description': 'HT Correspondent NAGAON, May 20: Dibya Jyoti Deka and Swaroop Jyoti Deka, master degree 4th semester students from the Department of Yogic Science and Naturopathy at Mahapurusha Srimanta Shankaradeva Vishwavidyalaya here, recently concluded a 21-day internshi…', 'url': 'https://thehillstimes.in/assam/yogic-science-students-complete-internship-programme', 'urlToImage': 'https://thehillstimes.in/wp-content/uploads/2023/05/anchor-78.jpg', 'publishedAt': '2023-05-21T00:30:39Z', 'content': 'HT Correspondent\r\nNAGAON, May 20: Dibya Jyoti Deka and Swaroop Jyoti Deka, master degree 4th semester students from the Department of Yogic Science and Naturopathy at Mahapurusha Srimanta Shankaradev… [+2723 chars]'}, {'source': {'id': None, 'name': 'Daily Mail'}, 'author': 'Alexandra Shulman', 'title': "ALEXANDRA SHULMAN'S NOTEBOOK: Other halves make flying on business a lot less jolly", 'description': 'ALEXANDRA SHULMAN: Taking your partner with you prevents that faintly lemon-lipped look on your return, though I always think having someone with you on a business trip is a mixed blessing.', 'url': 'https://www.dailymail.co.uk/news/article-12107081/ALEXANDRA-SHULMANS-NOTEBOOK-halves-make-flying-business-lot-jolly.html', 'urlToImage': 'https://i.dailymail.co.uk/1s/2023/05/21/01/71225601-0-image-a-19_1684628842528.jpg', 'publishedAt': '2023-05-21T00:30:00Z', 'content': "Akshata Murthy has joined her husband for the first time on an official overseas trip, an indicator of her profile as the PM's wife.\r\nAs anyone who has travelled for business knows, the person left o… [+5773 chars]"}, {'source': {'id': None, 'name': 'Daily Mail'}, 'author': 'Natasha Livingstone', 'title': "Radio station for builders set up by a graduate becomes Britain's fastest-growing broadcaster", 'description': 'Fix Radio, which entertains tradespeople, grew by nearly 250 per cent since its national launch in May last year, reaching just under 300,000 listeners.', 'url': 'https://www.dailymail.co.uk/news/article-12107097/Radio-station-builders-set-graduate-Britains-fastest-growing-broadcaster.html', 'urlToImage': 'https://i.dailymail.co.uk/1s/2023/05/21/01/71225633-0-image-a-79_1684628681948.jpg', 'publishedAt': '2023-05-21T00:29:12Z', 'content': "A builders' radio station launched by a graduate has become the fastest-growing radio station in the UK.\r\nFix Radio, which entertains tradespeople, grew by nearly 250 per cent since its national laun… [+1833 chars]"}, {'source': {'id': None, 'name': 'Los Angeles Times'}, 'author': 'Bill Plaschke', 'title': 'Plaschke: How did this happe

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0x563.jpg', 'publishedAt': '2023-05-20T23:28:19Z', 'content': 'When he steps down next w
eek President Muhammadu Buhari will be leaving Nigerians less secure, poorer and more in
 debt than when he came to office in 2015.\r\nThe former military ruler became presiden
t… [+9100 chars]'}]}

In [33]:
```python
import pandas as pd
news = pd.DataFrame(json_data)
news.head(5)
```

Out[33]:

	status	totalResults	articles
0	ok	35802	{'source': {'id': None, 'name': 'Daily Mail'},...
1	ok	35802	{'source': {'id': None, 'name': 'The Punch'}, ...
2	ok	35802	{'source': {'id': 'al-jazeera-english', 'name'...
3	ok	35802	{'source': {'id': 'the-jerusalem-post', 'name'...
4	ok	35802	{'source': {'id': None, 'name': 'Daily Beast'}...

4. Using one of the datasets provided in Weeks 7 & 8, or a dataset of your own, choose 3 of the following visualizations to complete. You must submit via PDF along with your code. You are free to use Matplotlib, Seaborn or another package if you prefer.

a. Line

b. Scatter

c. Bar

d. Histogram

e. Density Plot

f. Pie Chart

Your exercises are due two weeks from Sunday by Midnight of Week 10. Refer to the rubric for more grading detail.

```
In [34]:  #Import libraries
          import pandas as pd
          import matplotlib.pyplot as plt
          import seaborn as sns
```

```
In [35]:  # Read csv file
          housing_df = pd.read_csv("Boston_housing.csv")
          housing_df.head(5)
```

Out[35]:

	CRIM	ZN	INDUS	CHAS	NOX	RM	AGE	DIS	RAD	TAX	PTRATIO	B	LSTAT	PRICE
0	0.00632	18.0	2.31	0	0.538	6.575	65.2	4.0900	1	296	15.3	396.90	4.98	24.0
1	0.02731	0.0	7.07	0	0.469	6.421	78.9	4.9671	2	242	17.8	396.90	9.14	21.6
2	0.02729	0.0	7.07	0	0.469	7.185	61.1	4.9671	2	242	17.8	392.83	4.03	34.7
3	0.03237	0.0	2.18	0	0.458	6.998	45.8	6.0622	3	222	18.7	394.63	2.94	33.4
4	0.06905	0.0	2.18	0	0.458	7.147	54.2	6.0622	3	222	18.7	396.90	5.33	36.2

```
In [36]:  # Histogram

          sns.set()
          sns.histplot(data=housing_df, x="TAX")
          plt.title('Housing Data', fontweight='bold', fontsize='17', horizontalalignment='center'
          plt.xlabel('TAX')
```

Out[36]: Text(0.5, 0, 'TAX')


```
In [37]:  # Scatter plot
```

```
sns.scatterplot(x="AGE",y="TAX",hue="RAD",data=housing_df)
plt.title('Housing Data', fontweight='bold', fontsize='17', horizontalalignment='center'
plt.xlabel('Age')
plt.ylabel('property-tax rate')
```

Out[37]: Text(0, 0.5, 'property-tax rate')

In [38]:
```
#Bar Chart
plt.bar(housing_df["RAD"], housing_df["TAX"])
plt.title('Housing Data', fontweight='bold', fontsize='17', horizontalalignment='center'
plt.xlabel('Index of accessibility to radial highways')
plt.ylabel('Full-value property-tax rate')
```

Out[38]: Text(0, 0.5, 'Full-value property-tax rate')

Housing Data