CCC Analytics Data Engineering Take Home Assignment

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API used is: News API

Initialization with with Python's Requests Lib

Importing Modules and API key

In [153…
```python
#!/usr/bin/env python
# -*- coding: utf-8 -*-
#Created on Mon Apr  4 01:14:31 2022

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# Python 3

import requests

YOUR_ACCESS_KEY = '15048bcacdf74b239f2fc78e64960bf5'

# Send GET request to mediastack API
r = requests.get("https://newsapi.org/v2/top-headlines&access_key=15048bcacdf74b239
r
#responses = r.json()
#responses
```

Out[153]:   `<Response [404]>`

In [154…
```python
from newsapi import NewsApiClient
newsapi = NewsApiClient(api_key='15048bcacdf74b239f2fc78e64960bf5')
```

Cross checking the data for News Sources:

In [155…
```python
news_sources = newsapi.get_sources()
for source in news_sources['sources']:
    print(source['name'])
print(news_sources)
```

ABC News
ABC News (AU)
Aftenposten
Al Jazeera English
ANSA.it
Argaam
Ars Technica
Ary News
Associated Press
Australian Financial Review
Axios
BBC News
BBC Sport
Bild
Blasting News (BR)
Bleacher Report
Bloomberg
Breitbart News
Business Insider
Business Insider (UK)
Buzzfeed
CBC News
CBS News
CNN
CNN Spanish
Crypto Coins News
Der Tagesspiegel
Die Zeit
El Mundo
Engadget
Entertainment Weekly
ESPN
ESPN Cric Info
Financial Post
Focus
Football Italia
Fortune
FourFourTwo
Fox News
Fox Sports
Globo
Google News
Google News (Argentina)
Google News (Australia)
Google News (Brasil)
Google News (Canada)
Google News (France)
Google News (India)
Google News (Israel)
Google News (Italy)
Google News (Russia)
Google News (Saudi Arabia)
Google News (UK)
Göteborgs-Posten
Gruenderszene
Hacker News
Handelsblatt
IGN
Il Sole 24 Ore
Independent
Infobae
InfoMoney
La Gaceta
La Nacion

La Repubblica
Le Monde
Lenta
L'equipe
Les Echos
Libération
Marca
Mashable
Medical News Today
MSNBC
MTV News
MTV News (UK)
National Geographic
National Review
NBC News
News24
New Scientist
News.com.au
Newsweek
New York Magazine
Next Big Future
NFL News
NHL News
NRK
Politico
Polygon
RBC
Recode
Reddit /r/all
Reuters
RT
RTE
RTL Nieuws
SABQ
Spiegel Online
Svenska Dagbladet
T3n
TalkSport
TechCrunch
TechCrunch (CN)
TechRadar
The American Conservative
The Globe And Mail
The Hill
The Hindu
The Huffington Post
The Irish Times
The Jerusalem Post
The Lad Bible
The Next Web
The Sport Bible
The Times of India
The Verge
The Wall Street Journal
The Washington Post
The Washington Times
Time
USA Today
Vice News
Wired
Wired.de
Wirtschafts Woche
Xinhua Net
Ynet

{'status': 'ok', 'sources': [{'id': 'abc-news', 'name': 'ABC News', 'description': 'Your trusted source for breaking news, analysis, exclusive interviews, headlines, and videos at ABCNews.com.', 'url': 'https://abcnews.go.com', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'abc-news-au', 'name': 'ABC News (AU)', 'description': "Australia's most trusted source of local, national and world news. Comprehensive, independent, in-depth analysis, the latest business, sport, weather and more.", 'url': 'http://www.abc.net.au/news', 'category': 'general', 'language': 'en', 'country': 'au'}, {'id': 'aftenposten', 'name': 'Aftenposten', 'description': 'Norges ledende nettavis med alltid oppdaterte nyheter innenfor innenriks, utenriks, sport og kultur.', 'url': 'https://www.aftenposten.no', 'category': 'general', 'language': 'no', 'country': 'no'}, {'id': 'al-jazeera-english', 'name': 'Al Jazeera English', 'description': 'News, analysis from the Middle East and worldwide, multimedia and interactives, opinions, documentaries, podcasts, long reads and broadcast schedule.', 'url': 'http://www.aljazeera.com', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'ansa', 'name': 'ANSA.it', 'description': 'Agenzia ANSA: ultime notizie, foto, video e approfondimenti su: cronaca, politica, economia, regioni, mondo, sport, calcio, cultura e tecnologia.', 'url': 'http://www.ansa.it', 'category': 'general', 'language': 'it', 'country': 'it'}, {'id': 'argaam', 'name': 'Argaam', 'description': 'رقام موقع متخصص في متابعة سوق الأسهم الس 'ur', ' عودي تداول - تاسي - مع تغطيه معمقة لشركات واسعار ومنتجات البتروكيماويات , تقارير مالية الاكتتابات الجديده l': 'http://www.argaam.com', 'category': 'business', 'language': 'ar', 'country': 'sa'}, {'id': 'ars-technica', 'name': 'Ars Technica', 'description': "The PC enthusiast's resource. Power users and the tools they love, without computing religion.", 'url': 'http://arstechnica.com', 'category': 'technology', 'language': 'en', 'country': 'us'}, {'id': 'ary-news', 'name': 'Ary News', 'description': 'ARY News is a Pakistani news channel committed to bring you up-to-the minute Pakistan news and featured stories from around Pakistan and all over the world.', 'url': 'https://arynews.tv/ud/', 'category': 'general', 'language': 'ud', 'country': 'pk'}, {'id': 'associated-press', 'name': 'Associated Press', 'description': 'The AP delivers in-depth coverage on the international, politics, lifestyle, business, and entertainment news.', 'url': 'https://apnews.com/', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'australian-financial-review', 'name': 'Australian Financial Review', 'description': 'The Australian Financial Review reports the latest news from business, finance, investment and politics, updated in real time. It has a reputation for independent, award-winning journalism and is essential reading for the business and investor community.', 'url': 'http://www.afr.com', 'category': 'business', 'language': 'en', 'country': 'au'}, {'id': 'axios', 'name': 'Axios', 'description': 'Axios are a new media company delivering vital, trustworthy news and analysis in the most efficient, illuminating and shareable ways possible.', 'url': 'https://www.axios.com', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'bbc-news', 'name': 'BBC News', 'description': 'Use BBC News for up-to-the-minute news, breaking news, video, audio and feature stories. BBC News provides trusted World and UK news as well as local and regional perspectives. Also entertainment, business, science, technology and health news.', 'url': 'http://www.bbc.co.uk/news', 'category': 'general', 'language': 'en', 'country': 'gb'}, {'id': 'bbc-sport', 'name': 'BBC Sport', 'description': 'The home of BBC Sport online. Includes live sports coverage, breaking news, results, video, audio and analysis on Football, F1, Cricket, Rugby Union, Rugby League, Golf, Tennis and all the main world sports, plus major events such as the Olympic Games.', 'url': 'http://www.bbc.co.uk/sport', 'category': 'sports', 'language': 'en', 'country': 'gb'}, {'id': 'bild', 'name': 'Bild', 'description': 'Die Seite 1 für aktuelle Nachrichten und Themen, Bilder und Videos aus den Bereichen News, Wirtschaft, Politik, Show, Sport, und Promis.', 'url': 'http://www.bild.de', 'category': 'general', 'language': 'de', 'country': 'de'}, {'id': 'blasting-news-br', 'name': 'Blasting News (BR)', 'description': 'Descubra a seção brasileira da Blasting News, a primeira revista feita pelo público, com notícias globais e vídeos independentes. 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Launched in 2007, the site is now the largest business news site on the web.', 'url': 'http://uk.businessinsider.com', 'category': 'business', 'language': 'en', 'country': 'gb'}, {'id': 'buzzfeed', 'name': 'Buzzfeed', 'description': 'BuzzFeed is a cross-platform, global network for news and entertainment that generates seven billion views each month.', 'url': 'https://www.buzzfeed.com', 'category': 'entertainment', 'language': 'en', 'country': 'us'}, {'id': 'cbc-news', 'name': 'CBC News', 'description': "CBC News is the division of the Canadian Broadcasting Corporation responsible for the news gathering and production of news programs on the corporation's English-language operations, namely CBC Television, CBC Radio, CBC News Network, and CBC.ca.", 'url': 'http://www.cbc.ca/news', 'category': 'general', 'language': 'en', 'country': 'ca'}, {'id': 'cbs-news', 'name': 'CBS News', 'description': 'CBS News: dedicated to providing the best in journalism under standards it pioneered at the dawn of radio and television and continue in the digital age.', 'url': 'http://www.cbsnews.com', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'cnn', 'name': 'CNN', 'description': 'View the latest news and breaking news today for U.S., world, weather, entertainment, politics and health at CNN', 'url': 'http://us.cnn.com', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'cnn-es', 'name': 'CNN Spanish', 'description': 'Lee las últimas noticias e información sobre Latinoamérica, Estados Unidos, mundo, entretenimiento, política, salud, tecnología y deportes en CNNEspañol.com.', 'url': 'http://cnnespanol.cnn.com/', 'category': 'general', 'language': 'es', 'country': 'us'}, {'id': 'crypto-coins-news', 'name': 'Crypto Coins News', 'description': 'Providing breaking cryptocurrency news - focusing on Bitcoin, Ethereum, ICOs, blockchain technology, and smart contracts.', 'url': 'https://www.ccn.com', 'category': 'technology', 'language': 'en', 'country': 'us'}, {'id': 'der-tagesspiegel', 'name': 'Der Tagesspiegel', 'description': 'Nachrichten, News und neueste Meldungen aus dem Inland und dem Ausland - aktuell präsentiert von tagesspiegel.de.', 'url': 'http://www.tagesspiegel.de', 'category': 'general', 'language': 'de', 'country': 'de'}, {'id': 'die-zeit', 'name': 'Die Zeit', 'description': 'Aktuelle Nachrichten, Kommentare, Analysen und Hintergrundberichte aus Politik, Wirtschaft, Gesellschaft, Wissen, Kultur und Sport lesen Sie auf ZEIT ONLINE.', 'url': 'http://www.zeit.de/index', 'category': 'business', 'language': 'de', 'country': 'de'}, {'id': 'el-mundo', 'name': 'El Mundo', 'description': 'Noticias, actualidad, álbumes, debates, sociedad, servicios, entretenimiento y última hora en España y el mundo.', 'url': 'http://www.elmundo.es', 'category': 'general', 'language': 'es', 'country': 'es'}, {'id': 'engadget', 'name': 'Engadget', 'description': 'Engadget is a web magazine with obsessive daily coverage of everything new in gadgets and consumer electronics.', 'url': 'https://www.engadget.com', 'category': 'technology', 'language': 'en', 'country': 'us'}, {'id': 'entertainment-weekly', 'name': 'Entertainment Weekly', 'description': 'Online version of the print magazine includes entertainment news, interviews, reviews of music, film, TV and books, and a special area for magazine subscribers.', 'url': 'http://www.ew.com', 'category': 'entertainment', 'language': 'en', 'country': 'us'}, {'id': 'espn', 'name': 'ESPN', 'description': 'ESPN has up-to-the-minute sports news coverage, scores, highlights and commentary for NFL, MLB, NBA, College Football, NCAA Basketball and more.', 'url': 'http://espn.go.com', 'category': 'sports', 'language': 'en', 'country': 'us'}, {'id': 'espn-cric-info', 'name': 'ESPN Cric Info', 'description': 'ESPN Cricinfo provides the most comprehensive cricket coverage available including live ball-by-ball commentary, news, unparalleled statistics, quality editorial comment and analysis.', 'url': 'http://www.espncricinfo.com/', 'category': 'sports', 'language': 'en', 'country': 'us'}, {'id': 'financial-post', 'name': 'Financial Post', 'description': 'Find the latest happenings in the Canadian Financial Sector and stay up to date with changing trends in Business Markets.

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Breaking news and video. Latest Current News: U.S., World, Entertainment, Health, Business, Technology, Politics, Sports.', 'url': 'http://www.foxnews.com', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'fox-sports', 'name': 'Fox Sports', 'description': 'Find live scores, player and team news, videos, rumors, stats, standings, schedules and fantasy games on FOX Sports.', 'url': 'http://www.foxsports.com', 'category': 'sports', 'language': 'en', 'country': 'us'}, {'id': 'globo', 'name': 'Globo', 'description': 'Só na globo.com você encontra tudo sobre o conteúdo e marcas do Grupo Globo. O melhor acervo de vídeos online sobre entretenimento, esportes e jornalismo do Brasil.', 'url': 'http://www.globo.com/', 'category': 'general', 'language': 'pt', 'country': 'br'}, {'id': 'google-news', 'name': 'Google News', 'description': 'Comprehensive, up-to-date news coverage, aggregated from sources all over the world by Google News.', 'url': 'https://news.google.com', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'google-news-ar', 'name': 'Google News (Argentina)', 'description': 'Completa cobertura actualizada de noticias agregadas a partir de fuentes de todo el mundo por Google Noticias.', 'url': 'https://news.google.com', 'category': 'general', 'language': 'es', 'country': 'ar'}, {'id': 'google-news-au', 'name': 'Google News (Australia)', 'description': 'Comprehensive, up-to-date Australia news coverage, aggregated from sources all over the world by Google News.', 'url': 'https://news.google.com', 'category': 'general', 'language': 'en', 'country': 'au'}, {'id': 'google-news-br', 'name': 'Google News (Brasil)', 'description': 'Cobertura jornalística abrangente e atualizada, agregada de fontes do mundo inteiro pelo Google Notícias.', 'url': 'https://news.google.com', 'category': 'general', 'language': 'pt', 'country': 'br'}, {'id': 'google-news-ca', 'name': 'Google News (Canada)', 'description': 'Comprehensive, up-to-date Canada news coverage, aggregated from sources all over the world by Google News.', 'url': 'https://news.google.com', 'category': 'general', 'language': 'en', 'country': 'ca'}, {'id': 'google-news-fr', 'name': 'Google News (France)', 'description': 'Informations complètes et à jour, compilées par Google Actualités à partir de sources d'actualités du monde entier.', 'url': 'https://news.google.com', 'category': 'general', 'language': 'fr', 'country': 'fr'}, {'id': 'google-news-in', 'name': 'Google News (India)', 'description': 'Comprehensive, up-to-date India news coverage, aggregated from sources all over the world by Google News.', 'url': 'https://news.google.com', 'category': 'general', 'language': 'en', 'country': 'in'}, {'id': 'google-news-is', 'name': 'Google News (Israel)', 'description': 'כיסוי מקיף וע דכני של חדשות שהצטברו ממקורות בכל העולם על ידי חדשות'.Google'.', 'url': 'https://news.google.com', 'category': 'general', 'language': 'he', 'country': 'is'}, {'id': 'google-news-it', 'name': 'Google News (Italy)', 'description': 'Copertura giornalistica completa e aggiornata ottenuta combinando fonti di notizie in tutto il mondo attraverso Google News.', 'url': 'https://news.google.com', 'category': 'general', 'language': 'it', 'country': 'it'}, {'id': 'google-news-ru', 'name': 'Google News (Russia)', 'description': 'Исчерпывающая и актуальная информация, собранная службой "Новости Google" со всего света.', 'url': 'https://news.google.com', 'category': 'general', 'language': 'ru', 'country': 'ru'}, {'id': 'google-news-sa', 'name': 'Google News (Saudi Arabia)', 'description': 'تغطية شاملة ومتجددة للأخبار، تم جمعها من مصادر أخبار من جميع أنحاء العالم بواسطة أخبار Google.', 'url': 'https://news.google.com', 'category': 'general', 'language': 'ar', 'country': 'sa'}, {'id': 'google-news-uk', 'name': 'Google News (UK)', 'description': 'Comprehensive, up-to-date UK news coverage, aggregated from sources all over the world by Google News.', 'url': 'h

ttps://news.google.com', 'category': 'general', 'language': 'en', 'country': 'gb'}, {'id': 'goteborgs-posten', 'name': 'Göteborgs-Posten', 'description': 'Göteborgs-Posten, abbreviated GP, is a major Swedish language daily newspaper published in Gothenburg, Sweden.', 'url': 'http://www.gp.se', 'category': 'general', 'language': 'se', 'country': 'se'}, {'id': 'gruenderszene', 'name': 'Gruenderszene', 'description': 'Online-Magazin für Startups und die digitale Wirtschaft. News und Hintergründe zu Investment, VC und Gründungen.', 'url': 'http://www.gruenderszene.de', 'category': 'technology', 'language': 'de', 'country': 'de'}, {'id': 'hacker-news', 'name': 'Hacker News', 'description': 'Hacker News is a social news website focusing on computer science and entrepreneurship. It is run by Paul Graham\'s investment fund and startup incubator, Y Combinator. In general, content that can be submitted is defined as "anything that gratifies one\'s intellectual curiosity".', 'url': 'https://news.ycombinator.com', 'category': 'technology', 'language': 'en', 'country': 'us'}, {'id': 'handelsblatt', 'name': 'Handelsblatt', 'description': 'Auf Handelsblatt lesen sie Nachrichten über Unternehmen, Finanzen, Politik und Technik. Verwalten Sie Ihre Finanzanlagen mit Hilfe unserer Börsenkurse.', 'url': 'http://www.handelsblatt.com', 'category': 'business', 'language': 'de', 'country': 'de'}, {'id': 'ign', 'name': 'IGN', 'description': 'IGN is your site for Xbox One, PS4, PC, Wii-U, Xbox 360, PS3, Wii, 3DS, PS Vita and iPhone games with expert reviews, news, previews, trailers, cheat codes, wiki guides and walkthroughs.', 'url': 'http://www.ign.com', 'category': 'entertainment', 'language': 'en', 'country': 'us'}, {'id': 'il-sole-24-ore', 'name': 'Il Sole 24 Ore', 'description': 'Notizie di economia, cronaca italiana ed estera, quotazioni borsa in tempo reale e di finanza, norme e tributi, fondi e obbligazioni, mutui, prestiti e lavoro a cura de Il Sole 24 Ore.', 'url': 'https://www.ilsole24ore.com', 'category': 'business', 'language': 'it', 'country': 'it'}, {'id': 'independent', 'name': 'Independent', 'description': 'National morning quality (tabloid) includes free online access to news and supplements. Insight by Robert Fisk and various other columnists.', 'url': 'http://www.independent.co.uk', 'category': 'general', 'language': 'en', 'country': 'gb'}, {'id': 'infobae', 'name': 'Infobae', 'description': 'Noticias de Argentina y del mundo en tiempo real. Información, videos y fotos sobre los hechos más relevantes y sus protagonistas. Léelo antes en infobae.', 'url': 'http://www.infobae.com/?noredirect', 'category': 'general', 'language': 'es', 'country': 'ar'}, {'id': 'info-money', 'name': 'InfoMoney', 'description': 'No InfoMoney você encontra tudo o que precisa sobre dinheiro. Ações, investimentos, bolsas de valores e muito mais. Aqui você encontra informação que vale dinheiro!', 'url': 'https://www.infomoney.com.br', 'category': 'business', 'language': 'pt', 'country': 'br'}, {'id': 'la-gaceta', 'name': 'La Gaceta', 'description': 'El diario de Tucumán, noticias 24 horas online - San Miguel de Tucumán - Argentina - Ultimo momento - Ultimas noticias.', 'url': 'http://www.lagaceta.com.ar', 'category': 'general', 'language': 'es', 'country': 'ar'}, {'id': 'la-nacion', 'name': 'La Nacion', 'description': 'Información confiable en Internet. Noticias de Argentina y del mundo - ¡Informate ya!', 'url': 'http://www.lanacion.com.ar', 'category': 'general', 'language': 'es', 'country': 'ar'}, {'id': 'la-repubblica', 'name': 'La Repubblica', 'description': 'Breaking News, Latest News and Current News from FOXNews.com. Breaking news and video. Latest Current News: U.S., World, Entertainment, Health, Business, Technology, Politics, Sports.', 'url': 'http://www.repubblica.it', 'category': 'general', 'language': 'it', 'country': 'it'}, {'id': 'le-monde', 'name': 'Le Monde', 'description': "Les articles du journal et toute l'actualité en continu : International, France, Société, Economie, Culture, Environnement, Blogs ...", 'url': 'http://www.lemonde.fr', 'category': 'general', 'language': 'fr', 'country': 'fr'}, {'id': 'lenta', 'name': 'Lenta', 'description': 'Новости, статьи, фотографии, видео. Семь дней в неделю, 24 часа в сутки.', 'url': 'https://lenta.ru', 'category': 'general', 'language': 'ru', 'country': 'ru'}, {'id': 'lequipe', 'name': "L'equipe", 'description': "Le sport en direct sur L'EQUIPE.fr. Les informations, résultats et classements de tous les sports. Directs commentés, images et vidéos à regarder et à partager !", 'url': 'https://www.lequipe.fr', 'category': 'sports', 'language': 'fr', 'country': 'fr'}, {'id': 'les-echos', 'name': 'Les Echos', 'description': "Toute l'actualité économique, financière et boursière française et internationale sur Les Echos.fr", 'url': 'https://www.lesechos.fr', 'category': 'business', 'language': 'fr', 'country': 'fr'}, {'id': 'liberation', 'name': 'Libération', 'description': "Toute l'actualité en direct - photos et vidéos avec Libération", 'url': 'http://www.liberation.fr', 'category': 'general', 'language': 'fr', 'country': 'fr'}, {'id': 'marca', 'name': 'Marca', 'description': 'La mejor informac

ión deportiva en castellano actualizada minuto a minuto en noticias, vídeos, fotos, retransmisiones y resultados en directo.', 'url': 'http://www.marca.com', 'category': 'sports', 'language': 'es', 'country': 'es'}, {'id': 'mashable', 'name': 'Mashable', 'description': 'Mashable is a global, multi-platform media and entertainment company.', 'url': 'https://mashable.com', 'category': 'entertainment', 'language': 'en', 'country': 'us'}, {'id': 'medical-news-today', 'name': 'Medical News Today', 'description': 'Medical news and health news headlines posted throughout the day, every day.', 'url': 'http://www.medicalnewstoday.com', 'category': 'health', 'language': 'en', 'country': 'us'}, {'id': 'msnbc', 'name': 'MSNBC', 'description': 'Breaking news and in-depth analysis of the headlines, as well as commentary and informed perspectives from The Rachel Maddow Show, Morning Joe & more.', 'url': 'http://www.msnbc.com', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'mtv-news', 'name': 'MTV News', 'description': "The ultimate news source for music, celebrity, entertainment, movies, and current events on the web. It's pop culture on steroids.", 'url': 'http://www.mtv.com/news', 'category': 'entertainment', 'language': 'en', 'country': 'us'}, {'id': 'mtv-news-uk', 'name': 'MTV News (UK)', 'description': 'All the latest celebrity news, gossip, exclusive interviews and pictures from the world of music and entertainment.', 'url': 'http://www.mtv.co.uk/news', 'category': 'entertainment', 'language': 'en', 'country': 'gb'}, {'id': 'national-geographic', 'name': 'National Geographic', 'description': 'Reporting our world daily: original nature and science news from National Geographic.', 'url': 'http://news.nationalgeographic.com', 'category': 'science', 'language': 'en', 'country': 'us'}, {'id': 'national-review', 'name': 'National Review', 'description': 'National Review: Conservative News, Opinion, Politics, Policy, & Current Events.', 'url': 'https://www.nationalreview.com/', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'nbc-news', 'name': 'NBC News', 'description': 'Breaking news, videos, and the latest top stories in world news, business, politics, health and pop culture.', 'url': 'http://www.nbcnews.com', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'news24', 'name': 'News24', 'description': "South Africa's premier news source, provides breaking news on national, world, Africa, sport, entertainment, technology and more.", 'url': 'http://www.news24.com', 'category': 'general', 'language': 'en', 'country': 'za'}, {'id': 'new-scientist', 'name': 'New Scientist', 'description': 'Breaking science and technology news from around the world. Exclusive stories and expert analysis on space, technology, health, physics, life and Earth.', 'url': 'https://www.newscientist.com/section/news', 'category': 'science', 'language': 'en', 'country': 'us'}, {'id': 'news-com-au', 'name': 'News.com.au', 'description': 'We say what people are thinking and cover the issues that get people talking balancing Australian and global moments — from politics to pop culture.', 'url': 'http://www.news.com.au', 'category': 'general', 'language': 'en', 'country': 'au'}, {'id': 'newsweek', 'name': 'Newsweek', 'description': 'Newsweek provides in-depth analysis, news and opinion about international issues, technology, business, culture and politics.', 'url': 'https://www.newsweek.com', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'new-york-magazine', 'name': 'New York Magazine', 'description': 'NYMAG and New York magazine cover the new, the undiscovered, the next in politics, culture, food, fashion, and behavior nationally, through a New York lens.', 'url': 'http://nymag.com', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'next-big-future', 'name': 'Next Big Future', 'description': 'Coverage of science and technology that have the potential for disruption, and analysis of plans, policies, and technology that enable radical improvement.', 'url': 'https://www.nextbigfuture.com', 'category': 'science', 'language': 'en', 'country': 'us'}, {'id': 'nfl-news', 'name': 'NFL News', 'description': 'The official source for NFL news, schedules, stats, scores and more.', 'url': 'http://www.nfl.com/news', 'category': 'sports', 'language': 'en', 'country': 'us'}, {'id': 'nhl-news', 'name': 'NHL News', 'description': 'The most up-to-date breaking hockey news from the official source including interviews, rumors, statistics and schedules.', 'url': 'https://www.nhl.com/news', 'category': 'sports', 'language': 'en', 'country': 'us'}, {'id': 'nrk', 'name': 'NRK', 'description': 'NRK er Norges største tilbud på nett: nyheter fra Norge og verden, lokalnyheter, radio- og tv-program, podcast, vær, helse-, kultur-, underholdning-, humor- og debattstoff.', 'url': 'https://www.nrk.no', 'category': 'general', 'language': 'no', 'country': 'no'}, {'id': 'politico', 'name': 'Politico', 'description': 'Political news about Congress, the White House, campaigns, lobbyists and issues.', 'url': 'https://www.politico.com', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'polygon', 'name': 'Po

lygon', 'description': 'Polygon is a gaming website in partnership with Vox Media. Our culture focused site covers games, their creators, the fans, trending stories and entertainment news.', 'url': 'http://www.polygon.com', 'category': 'entertainment', 'language': 'en', 'country': 'us'}, {'id': 'rbc', 'name': 'RBC', 'description': 'Главные новости политики, экономики и бизнеса, комментарии аналитиков, финансовые данные с российских и мировых биржевых систем на сайте rbc.ru.', 'url': 'https://www.rbc.ru', 'category': 'general', 'language': 'ru', 'country': 'ru'}, {'id': 'recode', 'name': 'Recode', 'description': 'Get the latest independent tech news, reviews and analysis from Recode with the most informed and respected journalists in technology and media.', 'url': 'http://www.recode.net', 'category': 'technology', 'language': 'en', 'country': 'us'}, {'id': 'reddit-r-all', 'name': 'Reddit /r/all', 'description': "Reddit is an entertainment, social news networking service, and news website. Reddit's registered community members can submit content, such as text posts or direct links.", 'url': 'https://www.reddit.com/r/all', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'reuters', 'name': 'Reuters', 'description': 'Reuters.com brings you the latest news from around the world, covering breaking news in business, politics, entertainment, technology, video and pictures.', 'url': 'http://www.reuters.com', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'rt', 'name': 'RT', 'description': 'Актуальная картина дня на RT: круглосуточное ежедневное обновление новостей политики, бизнеса, финансов, спорта, науки, культуры. Онлайн-репортажи с места событий. Комментарии экспертов, актуальные интервью, фото и видео репортажи.', 'url': 'https://russian.rt.com', 'category': 'general', 'language': 'ru', 'country': 'ru'}, {'id': 'rte', 'name': 'RTE', 'description': "Get all of the latest breaking local and international news stories as they happen, with up to the minute updates and analysis, from Ireland's National Broadcaster.", 'url': 'https://www.rte.ie/news', 'category': 'general', 'language': 'en', 'country': 'ie'}, {'id': 'rtl-nieuws', 'name': 'RTL Nieuws', 'description': 'Volg het nieuws terwijl het gebeurt. RTL Nieuws informeert haar lezers op een onafhankelijke, boeiende en toegankelijke wijze over belangrijke ontwikkelingen in eigen land en de rest van de wereld.', 'url': 'https://www.rtlnieuws.nl/', 'category': 'general', 'language': 'nl', 'country': 'nl'}, {'id': 'sabq', 'name': 'SABQ', 'description': 'صحيفة الكترونية سعودية هدفها السبق في نقل الحدث بمهنية ومصداقية خدمة للوطن والمواطن.', 'url': 'https://sabq.org', 'category': 'general', 'language': 'ar', 'country': 'sa'}, {'id': 'spiegel-online', 'name': 'Spiegel Online', 'description': 'Deutschlands führende Nachrichtenseite. Alles Wichtige aus Politik, Wirtschaft, Sport, Kultur, Wissenschaft, Technik und mehr.', 'url': 'http://www.spiegel.de', 'category': 'general', 'language': 'de', 'country': 'de'}, {'id': 'svenska-dagbladet', 'name': 'Svenska Dagbladet', 'description': 'Sveriges ledande mediesajt - SvD.se. Svenska Dagbladets nyhetssajt låter läsarna ta plats och fördjupar nyheterna.', 'url': 'https://www.svd.se', 'category': 'general', 'language': 'se', 'country': 'se'}, {'id': 't3n', 'name': 'T3n', 'description': 'Das Online-Magazin bietet Artikel zu den Themen E-Business, Social Media, Startups und Webdesign.', 'url': 'https://t3n.de', 'category': 'technology', 'language': 'de', 'country': 'de'}, {'id': 'talksport', 'name': 'TalkSport', 'description': "Tune in to the world's biggest sports radio station - Live Premier League football coverage, breaking sports news, transfer rumours & exclusive interviews.", 'url': 'http://talksport.com', 'category': 'sports', 'language': 'en', 'country': 'gb'}, {'id': 'techcrunch', 'name': 'TechCrunch', 'description': 'TechCrunch is a leading technology media property, dedicated to obsessively profiling startups, reviewing new Internet products, and breaking tech news.', 'url': 'https://techcrunch.com', 'category': 'technology', 'language': 'en', 'country': 'us'}, {'id': 'techcrunch-cn', 'name': 'TechCrunch (CN)', 'description': 'TechCrunch is a leading technology media property, dedicated to obsessively profiling startups, reviewing new Internet products, and breaking tech news.', 'url': 'https://techcrunch.cn', 'category': 'technology', 'language': 'zh', 'country': 'zh'}, {'id': 'techradar', 'name': 'TechRadar', 'description': 'The latest technology news and reviews, covering computing, home entertainment systems, gadgets and more.', 'url': 'http://www.techradar.com', 'category': 'technology', 'language': 'en', 'country': 'us'}, {'id': 'the-american-conservative', 'name': 'The American Conservative', 'description': 'Realism and reform. A new voice for a new generation of conservatives.', 'url': 'http://www.theamericanconservative.com/', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'the-globe-and-mail', 'name': 'The Globe And Mail', 'description': 'The Globe and Mail offers the most authoritative news in Canada, featuring national and international news.', 'url': 'https://www.theglobeandmail.com', 'category': 'general', 'languag

e': 'en', 'country': 'ca'}, {'id': 'the-hill', 'name': 'The Hill', 'description': 'The Hill is a top US political website, read by the White House and more lawmaker s than any other site -- vital for policy, politics and election campaigns.', 'ur l': 'http://thehill.com', 'category': 'general', 'language': 'en', 'country': 'u s'}, {'id': 'the-hindu', 'name': 'The Hindu', 'description': "The Hindu. latest ne ws, analysis, comment, in-depth coverage of politics, business, sport, environmen t, cinema and arts from India's national newspaper.", 'url': 'http://www.thehindu. com', 'category': 'general', 'language': 'en', 'country': 'in'}, {'id': 'the-huffi ngton-post', 'name': 'The Huffington Post', 'description': 'The Huffington Post is a politically liberal American online news aggregator and blog that has both local ized and international editions founded by Arianna Huffington, Kenneth Lerer, Andr ew Breitbart, and Jonah Peretti, featuring columnists.', 'url': 'http://www.huffin gtonpost.com', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'the-irish-times', 'name': 'The Irish Times', 'description': 'The Irish Times onli ne. Latest news including sport, analysis, business, weather and more from the def initive brand of quality news in Ireland.', 'url': 'https://www.irishtimes.com', 'category': 'general', 'language': 'en', 'country': 'ie'}, {'id': 'the-jerusalem-p ost', 'name': 'The Jerusalem Post', 'description': 'The Jerusalem Post is the lead ing online newspaper for English speaking Jewry since 1932, bringing news and upda tes from the Middle East and all over the Jewish world.', 'url': 'https://www.jpos t.com/', 'category': 'general', 'language': 'en', 'country': 'is'}, {'id': 'the-la d-bible', 'name': 'The Lad Bible', 'description': 'The LAD Bible is one of the lar gest community for guys aged 16-30 in the world. Send us your funniest pictures an d videos!', 'url': 'https://www.theladbible.com', 'category': 'entertainment', 'la nguage': 'en', 'country': 'gb'}, {'id': 'the-next-web', 'name': 'The Next Web', 'd escription': 'The Next Web is one of the world's largest online publications that delivers an international perspective on the latest news about Internet technolog y, business and culture.', 'url': 'http://thenextweb.com', 'category': 'technolog y', 'language': 'en', 'country': 'us'}, {'id': 'the-sport-bible', 'name': 'The Spo rt Bible', 'description': 'TheSPORTbible is one of the largest communities for spo rts fans across the world. Send us your sporting pictures and videos!', 'url': 'ht tps://www.thesportbible.com', 'category': 'sports', 'language': 'en', 'country': 'gb'}, {'id': 'the-times-of-india', 'name': 'The Times of India', 'description': 'Times of India brings the Latest News and Top Breaking headlines on Politics and Current Affairs in India and around the World, Sports, Business, Bollywood News an d Entertainment, Science, Technology, Health and Fitness news, Cricket and opinion s from leading columnists.', 'url': 'http://timesofindia.indiatimes.com', 'categor y': 'general', 'language': 'en', 'country': 'in'}, {'id': 'the-verge', 'name': 'Th e Verge', 'description': 'The Verge covers the intersection of technology, scienc e, art, and culture.', 'url': 'http://www.theverge.com', 'category': 'technology', 'language': 'en', 'country': 'us'}, {'id': 'the-wall-street-journal', 'name': 'The Wall Street Journal', 'description': 'WSJ online coverage of breaking news and cur rent headlines from the US and around the world. Top stories, photos, videos, deta iled analysis and in-depth reporting.', 'url': 'http://www.wsj.com', 'category': 'business', 'language': 'en', 'country': 'us'}, {'id': 'the-washington-post', 'nam e': 'The Washington Post', 'description': 'Breaking news and analysis on politics, business, world national news, entertainment more. In-depth DC, Virginia, Maryland news coverage including traffic, weather, crime, education, restaurant reviews and more.', 'url': 'https://www.washingtonpost.com', 'category': 'general', 'languag e': 'en', 'country': 'us'}, {'id': 'the-washington-times', 'name': 'The Washington Times', 'description': 'The Washington Times delivers breaking news and commentary on the issues that affect the future of our nation.', 'url': 'https://www.washingt ontimes.com/', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'time', 'name': 'Time', 'description': 'Breaking news and analysis from TIME.com. Politics, world news, photos, video, tech reviews, health, science and entertainme nt news.', 'url': 'http://time.com', 'category': 'general', 'language': 'en', 'cou ntry': 'us'}, {'id': 'usa-today', 'name': 'USA Today', 'description': 'Get the lat est national, international, and political news at USATODAY.com.', 'url': 'http:// www.usatoday.com/news', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'vice-news', 'name': 'Vice News', 'description': 'Vice News is Vice Media, Inc.\'s current affairs channel, producing daily documentary essays and video thro ugh its website and YouTube channel. It promotes itself on its coverage of "under - reported stories".', 'url': 'https://news.vice.com', 'category': 'general', 'lan guage': 'en', 'country': 'us'}, {'id': 'wired', 'name': 'Wired', 'description': 'W

ired is a monthly American magazine, published in print and online editions, that
focuses on how emerging technologies affect culture, the economy, and politics.',
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ry': 'us'}, {'id': 'wired-de', 'name': 'Wired.de', 'description': 'Wired reports o
n how emerging technologies affect culture, the economy and politics.', 'url': 'ht
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e-Portal des führenden Wirtschaftsmagazins in Deutschland. Das Entscheidende zu Un
ternehmen, Finanzen, Erfolg und Technik.', 'url': 'http://www.wiwo.de', 'categor
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'Xinhua Net', 'description': '中国主要重点新闻网站,依托新华社遍布全球的采编网络,记者遍
布世界100多个国家和地区,地方频道分布全国31个省市自治区,每天24小时同时使用6种语言滚动发稿,
权威、准确、及时播发国内外重要新闻和重大突发事件,受众覆盖200多个国家和地区,发展论坛是全球
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הבית: אתר החדשות המוביל בישראל מבית ידיעות אחרונות. סיקור מלא של חדשות מישראל והעולם, ספורט, כלכלה,
תרבות, אוכל, מדע וטבע, כל מה שקורה וכל מה שמעניין ב ynet.', 'url': 'http://www.ynet.co.il',
'category': 'general', 'language': 'he', 'country': 'is'}]}

Below is a list of News API endpoints.

Endpoint Description

->>> /v2/everything search every article published by over 75,000
different sources large and small in the last 3 years.

->>> /v2/top-headlines Returns breaking news headlines for countries,
categories, and singular publishers.

->>> /v2/sources Returns information (including name, description, and
category) about the most notable sources available for searching.

->>> more information here: https://newsapi.org/docs <<<

```python
import requests
import json
import pandas

# The headers remain the same for all the requests
headers = {'Authorization': '15048bcacdf74b239f2fc78e64960bf5'}
print(headers)

# All the endpoints in this section

# To fetch the top headlines
top_headlines_url = 'https://newsapi.org/v2/top-headlines'
# To fetch news articles
everything_news_url = 'https://newsapi.org/v2/everything'
# To retrieve the sources
sources_url = 'https://newsapi.org/v2/sources'
```

```
{'Authorization': '15048bcacdf74b239f2fc78e64960bf5'}
```

```python
# All the payloads in this section
headlines_payload = {'category': 'science', 'country': 'all'}
everything_payload = {'q': 'all', 'sortBy': 'popularity'}
sources_payload = {'category': 'general', 'country': 'all'}

print(sources_payload)
```

```
{'category': 'general', 'country': 'all'}
```

Putting a request based on the requirement, just change the url and the params field

Request to fetch the top headlines

In [7]:
```python
# Request to fetch the top headlines
# response = requests.get(url=top_headlines_url, headers=headers, params=headlines_

# Request to fetch every news article
response = requests.get(url=everything_news_url, headers=headers, params=everythin

# Request to fetch the sources
# response = requests.get(url=sources_url, headers=headers, params=sources_payload,

# Visualization
pretty_json_output = json.dumps(response.json(), indent=4)
print(pretty_json_output)
print(response.json())
```

```
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    "totalResults": 560218,
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                "name": "Lifehacker.com"
            },
            "author": "Beth Skwarecki",
            "title": "Why All Weight Loss Hacks Suck",
            "description": "Sometimes, when I want to feel mad, I read about the c
rap the internet tries to pass off as weight loss hacks. Because they are all so,
so bad.Articles about weight loss hacks never actually include hacks, but the head
line always swears they do. A recent exam\u2026",
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the internet tries to pass off as weight loss hacks. Because they are all so, so b
ad.\r\nArticles about weight loss hacks never actually includ\u2026 [+4981 chars]"
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            "description": "Though intended as a celebration if Irish heritage and
culture, many tend to celebrate St. Patrick\u2019s Day with a trip to the pub and
a plate of corned beef\u2014occasionally forgetting, perhaps, that there\u2019s mo
re to Ireland than depictions of leprechauns. It\u2019s all \u2026",
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386264.jpg",
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addys Day triple feature with films based on the works of writer Roddy Doyle (The
Commitments, The Snapper, and then this one). The novels on\u2026 [+567 chars]"
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            },
            "author": "Stephen Johnson",
            "title": "All the Terrible Slang Your Doctor Is Using Behind Your Bac
k",
            "description": "Maybe it comes from battling death itself as a job, bu
t people who work in medicine can be some dark mf\u2019ers, and you can see it in
their slang. Not only have doctors and nurses perfected gallows humor, but they ca
n use most of their \u201csecret words\u201d right in fr\u2026",
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sing-behind-your-1848635237",
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```

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            "description": "We probably all consider our dogs essential to our day
-to-day lives and wish we could take them everywhere. Many dogs actually do have r
eal jobs and go to work with their humans every day, whether they\u2019re herding
livestock, aiding search-and-rescue teams, or \u2026",
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            "urlToImage": "https://i.kinja-img.com/gawker-media/image/upload/c_fil
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day lives and wish we could take them everywhere. Many dogs actually do have real
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        },
        {
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Ides of March.\u201dRead more...",
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humanity today, rest assured: Its not because today is The Ides of March.\r\nIn Wi
lliam Shakespeares Julius Caesar, first produced in 1599, a \u2026 [+3394 chars]"
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            },
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Sure, you might think of gardening as the hobby of grandmotherly types, but gardening is all about mankind's endless battle to dominate and control the world. We see a plot of land covered in happy native flora and we decide, "Nope. Today …', 'url': 'https://lifehacker.com/20-weeds-in-your-garden-that-you-really-shouldnt-kill-1848617554', 'urlToImage':

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It's now a retailer, a grocery store, a media streamer, a movie production company, a cloud computing company, a major employer,…', 'url': 'https://lifehacker.com/everything-you-need-to-know-about-stock-splits-and-rev-1848661571', 'urlToImage': 'https://i.kinja-img.com/gawker-media/image/upload/c_fill,f_auto,fl_progressive,g_center,h_675,pg_1,q_80,w_1200/17db8919b8249baa2eed54071d5f01db.jpg', 'publishedAt': '2022-03-16T19:30:00Z', 'content': 'In the nearly 30 years since Amazon launched as a humble online bookstore, it has moved into just about every aspect of our lives. Its now a retailer, a grocery store, a media streamer, a movie produ… [+4451 chars]'}, {'source': {'id': None, 'name': 'Lifehacker.com'}, 'author': 'Elizabeth Yuko', 'title': "Don't Throw Away Your Mesh Produce Bags", 'description': 'In a perfect world, we'd all eat seasonally available local produce that we've purchased directly from farmers (or farmers' markets). 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Should we acknowledge the fact that I obviously stalked you before showing up toni…', 'url': 'https://lifehacker.com/just-be-yourself-and-other-dating-myths-you-should-sto-1848731958', 'urlToImage': 'https://i.kinja-img.com/gawker-media/image/upload/c_fill,f_auto,fl_progressive,g_center,h_675,pg_1,q_80,w_1200/25fdba3c74ea311896407258eda84268.jpg', 'publishedAt': '2022-03-31T16:00:00Z', 'content': 'Not to brag, but I go on a lot of first dates. But this point, Im familiar with navigating\xa0all the unspoken rules of the game. Will we split the bill, or is that too platonic? Should we acknowledge t… [+3580 chars]'}, {'source': {'id': None, 'name': 'Lifehacker.com'}, 'author': 'Meredith Dietz', 'title': 'Finally, There's a Wordle Clone for Music-Lovers', 'description': 'Going "viral" used to actually mean something. The online content market has never been more saturated, and after years of subjecting ourselves to a little bit of everything all of the time, you'd think someone would be gatekeeping what counts as "viral." Ala…', 'url': 'https://lifehacker.com/finally-there-s-a-wordle-clone-for-music-lovers-1848649747', 'urlToImage': 'https://i.kinja-img.com/gawker-media/image/upload/c_fill,f_auto,fl_progressive,g_center,h_675,pg_1,q_80,w_1200/c99b5ed7ccbbea0b6df016436c18ff63.png', 'publishedAt': '2022-03-14T16:30:00Z', 'content': 'Going viral used to actually mean something. 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thor': 'Pranay Parab', 'title': 'Why You Should Switch to Substack's New App', 'description': 'Substack is a newsletter service that lets you follow specific writers and receive their articles directly to your inbox. Its business model centers around a subscription that allows writers to get paid directly from their audience, (while Substack also gets …', 'url': 'https://lifehacker.com/why-you-should-switch-to-substack-s-new-app-1848634159', 'urlToImage': 'https://i.kinja-img.com/gawker-media/image/upload/c_fill,f_auto,fl_progressive,g_center,h_675,pg_1,q_80,w_1200/dfefae8796fe5f8872cab9048802609a.png', 'publishedAt': '2022-03-10T17:00:00Z', 'content': 'Substack is a newsletter service that lets you follow specific writers and receive their articles directly to your inbox. Its business model centers around a subscriptionthat allows writers to get pa… [+1889 chars]'}, {'source': {'id': None, 'name': 'Lifehacker.com'}, 'author': 'Stephen Johnson', 'title': '7 'Scientific' Theories of How the Universe Formed That Reject the Big Bang', 'description': 'The Big Bang theory has provided the most widely accepted basis of our understanding of the universe since it was first proposed by Georges Lemaitre in 1927. In short, it posits that all the matter in the entire universe was once crammed together in a mass ab…', 'url': 'https://lifehacker.com/7-scientific-theories-of-how-the-universe-formed-that-1848650132', 'urlToImage': 'https://i.kinja-img.com/gawker-media/image/upload/c_fill,f_auto,fl_progressive,g_center,h_675,pg_1,q_80,w_1200/c7e2084f9f9edb8aabf150a6f65f8952.jpg', 'publishedAt': '2022-03-14T18:30:00Z', 'content': 'Adherents to the simulation hypothesis contend that all existence is a computer simulation, which goes like this: If humans continue to develop computing power as we have been, future generations wil… [+748 chars]'}, {'source': {'id': None, 'name': 'Lifehacker.com'}, 'author': 'Meredith Dietz', 'title': "When to Tell Your Coworkers Your Salary (and When You Shouldn't)", 'description': 'The case for pay transparency is gaining traction. Next month, the New York City Pay Transparency Law, which mandates that companies disclose salary ranges for all job postings, is set to take effect. Although pay transparency is enforced in some places (see …', 'url': 'https://lifehacker.com/when-to-tell-your-coworkers-your-salary-and-when-you-s-1848668657', 'urlToImage': 'https://i.kinja-img.com/gawker-media/image/upload/c_fill,f_auto,fl_progressive,g_center,h_675,pg_1,q_80,w_1200/5c45edfecd716ec82c07cc28a9984e3c.jpg', 'publishedAt': '2022-03-18T13:30:00Z', 'content': 'The case for pay transparency is gaining traction. Next month, the New York City Pay Transparency Law, which mandates that companies disclose salary ranges for all job postings, is set to take effect… [+4933 chars]'}, {'source': {'id': None, 'name': 'Lifehacker.com'}, 'author': 'Khamosh Pathak', 'title': "8 Easy Ways to Improve (or Replace) Windows 11's Start Menu", 'description': 'Every major update since Windows 8 has come with a major redesign of the Start menu, and Windows 11 is no exception. This time, though, Microsoft went rather radical: The taskbar is centered, the Start menu is devoid of live tiles, and there are only two sect…', 'url': 'https://lifehacker.com/8-easy-ways-to-improve-or-replace-windows-11s-start-m-1848684451', 'urlToImage': 'https://i.kinja-img.com/gawker-media/image/upload/c_fill,f_auto,fl_progressive,g_center,h_675,pg_1,q_80,w_1200/7c6171d410318875e3c232f434c56077.jpg', 'publishedAt': '2022-03-22T16:30:00Z', 'content': 'Lets start by customizing what is now the only major part of the Start menu (RIP Live Tiles). In the Pinned section, you can see a list of apps that are designated to the Start menu. You can click th… [+514 chars]'}, {'source': {'id': None, 'name': 'Lifehacker.com'}, 'author': 'Pranay Parab', 'title': 'How to Stop OneDrive From Spamming You With Emails and Notifications', 'description': 'OneDrive is among the best cloud storage services around, but it has a problem—its tendency to bombard you with notifications and email spam. Upload photos to OneDrive, and the service starts hitting you up with "On this day memories" notifications on the reg…', 'url': 'https://lifehacker.com/how-to-stop-onedrive-from-spamming-you-with-emails-and-1848633234', 'urlToImage': 'https://i.kinja-img.com/gawker-media/image/upload/c_fill,f_auto,fl_progressive,g_center,h_675,pg_1,q_80,w_1200/acaee55dca97b21b6e5b7fc9b58cd909.jpg', 'publishedAt': '2022-03-10T22:00:00Z', 'content': 'OneDrive is among the best cloud storage services around, but it has a problemits tendency to bombard you with notifications and email spam. Upload photos to OneDrive, and the service starts hitting … [+1760 chars]'}, {'source': {'id': None, 'name': 'Lifehacker.com'}, 'author': 'Meredith Dietz', 'title': 'Everything You Should Do on the First Day of a Remote Job', 'description': 'Many of us adjusted to WFH life over the past two years, maybe even joining the so-called "great resignation" to avoid a forced return to an in-person office. Given the opportunity to start a remote gig, there's no shortage of reasons to opt for the perks of …', 'url': 'https://lifehacker.com/everything-you-should-do-on-the-first-d

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is a mixed bag. It finally modernizes the Windows operating system: It looks stunn
ing, it's secure, and it's fast, and it comes with a couple of neat tricks like th
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l… [+882 chars]'}]}

Collect news with specific categories using Python and API NEws (e.g. Health & Fitness - for Japan for validation and cross checking of the Data)

In [159…
```python
# All the payloads in this section
headlines_payload = {'category': 'health', 'country': 'jp'}
everything_payload = {'q': 'fitness', 'language': 'jp', 'sortBy': 'popularity'}
sources_payload = {'category': 'general', 'language': 'jp', 'country': 'jp'}

print(sources_payload)
```

{'category': 'general', 'language': 'jp', 'country': 'jp'}

In [160…
```python
# Collect business and technology news with Python and API News
r2 = requests.get(url=everything_news_url, headers=headers, params=everything_payl

responses2 = r2.json()
responses2
```

Out[160]:

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は、「Beat Saber」や「Supernatural」のようなソフトウェアを使ってカーディオエクササイズを
する人々がいるため、ハイテクエクササイズ機器として驚くほど大きなニッチを切り開くことに成功
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て物を殴るというのは、なんだか楽しそうな感じがすることを否定できない。\r\n\r\n2017年の創
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VR14951711045\r\nLiteboxer6Liteboxer VR500400100Punch Trac… [+442 chars]'},
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Collect news with specific language only (e.g. English) using Python and API News

In [347…
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# All the payloads in this section
headlines_payload = {'category': 'general', 'country': 'us'}
everything_payload = {'q': 'a', 'language': 'en', 'sortBy': 'popularity'}
sources_payload = {'category': 'general', 'language': 'en', 'country': 'us'}

print(sources_payload)
```

```
{'category': 'general', 'language': 'en', 'country': 'us'}
```

In [348…
```python
# Fire a request based on the requirement, just change the url and the params field

# Request to fetch the top headlines
# response = requests.get(url=top_headlines_url, headers=headers, params=headlines_

# Request to fetch every news article
response2 = requests.get(url=everything_news_url, headers=headers, params=everythi

# Request to fetch the sources
# response = requests.get(url=sources_url, headers=headers, params=sources_payload,

# If you just want to print
pretty_json_output = json.dumps(response2.json(), indent=4)
print(pretty_json_output)
print(response2.json())
```

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It\u2019s the day that people who don\u2019t drink all that much decide to really
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Its really just treadmill walking, with specific parameters and overblown … [+5778 chars]'}, {'source': {'id': None, 'name': 'Lifehacker.com'}, 'author': 'Beth Skwarecki', 'title': 'What to Know About Aphasia (Besides That It Affects Your Speech)', 'description': 'Bruce Willis' family wrote on Instagram that the actor will be retiring due to health issues, including most recently a diagnosis of aphasia. Aphasia is a disorder that can affect a person's ability to communicate.Read more...', 'url': 'https://lifehacker.com/what-to-know-about-aphasia-besides-that-it-affects-you-1848728176', 'urlToImage': 'https://i.kinja-img.com/gawker-media/image/upload/c_fill,f_auto,fl_progressive,g_center,h_675,pg_1,q_80,w_1200/4b412a2f25f83cd9b4ec2f6ff595d1ec.jpg', 'publishedAt': '2022-03-30T19:17:13Z', 'content': 'Bruce Willis family wrote on Instagram that the actor will be retiring due to health issues, including most recently a diagnosis of aphasia. 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Your device will freeze up and become unresponsive, instantly turning into a $1,00
0+ paperweight. It's times like these when a forced reset comes in handy—…', 'ur
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satile, and efficient; Microsoft has put in a lot of effort to make Edge less reso
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#everything_payload = {'q': 'finance', 'language': 'en', 'sortBy': 'popularity'}
#r3 = requests.get(url=everything_news_url, headers=headers, params=everything_payl

r3 = response2

responses3 = r3.json()
responses3
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many tend to celebrate St. Patrick's Day with a trip to the pub and a plate of cor
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who work in medicine can be some dark mf'ers, and you can see it in their slang. N
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and go to work with their humans every day, whether they're herding livestock, aid
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o to work with their humans every day, whether th… [+2936 chars]'},
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writers and receive their articles directly to your inbox. Its business model cent
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art menu (RIP Live Tiles). In the Pinned section, you can see a list of apps that
are designated to the Start menu. You can click th… [+514 chars]'},
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s',
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reasons to opt for the perks of …',
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easy to feel defeated when it feels like you're sending your resume out into the v
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to feel defeated when it feels like youre sending your resume out into the void an
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modernizes the Windows operating system: It looks stunning, it's secure, and it's
fast, and it comes with a couple of neat tricks like the new snap windows assistan
t and a redesigned taskbar. But…',
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s. But Windows 11 changed that. It now has a panel… [+882 chars]'}]}
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Building a Python application to:

Retrieve all English language news sources. -->> Step1:

In [292…

```python
# All the endpoints in this section

# To fetch the top headlines
top_headlines_url = 'https://newsapi.org/v2/top-headlines?access_key=YOUR_ACCESS_KE
# To fetch news articles
everything_news_url = 'https://newsapi.org/v2/everything?access_key=YOUR_ACCESS_KEY
# To retrieve the sources
sources_url = 'https://newsapi.org/v2/sources?access_key=YOUR_ACCESS_KEY&limit=100
```

Using the language filter insources

In [295…

```python
# All the payloads in this section
headlines_payload = {'category': 'general', 'country': 'us'}
everything_payload = {'q': 'all', 'language': 'en', 'sortBy': 'publishedAt'}
sources_payload = {'category': 'general', 'language': 'en', 'country': 'us'}

print(sources_payload)
```

```
{'category': 'general', 'language': 'en', 'country': 'us'}
```

Collecting hundreds of news or more with Python and API News

In [354…

```python
# Request to fetch every news article
response4 = requests.get("https://newsapi.org/v2/everything?language=en&apiKey=1504

# Request to fetch the top headlines
response6 = requests.get("https://newsapi.org/v2/top-headlines?country=us&language=

# Request to fetch the sources
response7 = requests.get("https://newsapi.org/v2/top-headlines/sources?language=en&

# printing
pretty_json_output = json.dumps(response4.json(), indent=4)
print(pretty_json_output)
print(response4.json())

pretty_json_output6 = json.dumps(response6.json(), indent=4)
print(pretty_json_output)
print(response6.json())

pretty_json_output7 = json.dumps(response7.json(), indent=4)
print(pretty_json_output)
print(response7.json())
```

```
{
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re missing, the scope of your search is too broad. Please set any of the following
required parameters and try again: q, qInTitle, sources, domains.'}
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é at the White House later this year - Fox News', 'description': "President Joe Bi
den's granddaughter, Naomi Biden, will marry her fiancé, Peter Neal, at the White
House later this year.", 'url': 'https://www.foxnews.com/us/naomi-biden-granddaugh
ter-marry-fiance-white-house-november', 'urlToImage': 'https://static.foxnews.com/
foxnews.com/content/uploads/2022/04/naomi-biden-thumb97.jpg', 'publishedAt': '2022
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will marry her fiancé, Peter Neal, at the White House later this year.\xa0\r\n"Pet
er and I are endlessly grateful to my Nana and Pop for the opportunity t… [+1586 c
hars]'}, {'source': {'id': 'usa-today', 'name': 'USA Today'}, 'author': 'Ryan W. M
iller, Jorge L. Ortiz and Celina Tebor, USA TODAY', 'title': "'We saw what happene
d in Bucha': Biden calls for Putin to face war crimes trial after mass graves foun
d. Live Ukraine updates. - USA TODAY", 'description': 'President Joe Biden called
for a war crimes trial against Russian President Vladimir Putin following new repo
rts of atrocities. Latest Ukraine news.', 'url': 'https://www.usatoday.com/story/n
ews/politics/2022/04/04/ukraine-russia-invasion-live-updates/7265726001/', 'urlToI
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ay called for a war crimes trial against Russian President Vladimir Putin and more
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ating air travel weekend nationwide - WCVB Boston', 'description': 'Dozens of flig
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avel headaches.', 'url': 'https://www.wcvb.com/article/flight-delays-cancellations
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s://kubrick.htvapps.com/htv-prod-media.s3.amazonaws.com/images/flightsboston-16490
67783.jpg?crop=1.00xw:0.752xh;0,0&resize=1200:*', 'publishedAt': '2022-04-04T21:5
0:00Z', 'content': 'BOSTON —Flight cancellations and delays continue Monday at Log
an International Airport in Boston after travelers were stuck waiting in terminals
for hours during the weekend. \r\nAs of 9:45 a.m. Monday… [+2541 chars]'}, {'sourc
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ent moderation policies, has bought 9.2 percent of the social media company.', 'ur
l': 'https://www.nytimes.com/2022/04/04/technology/elon-musk-twitter.html', 'urlTo
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ady gotten him in trouble, with his tweets about Teslas finances resulting in lega
l wranglings with the S.E.C.\r\nIf Mr. Musk p… [+1609 chars]'}, {'source': {'id':
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ory' says senator – live - The Guardian', 'description': 'The Senate judiciary mee
ts today, beginning a week expected to conclude with the confirmation of the first
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black female supreme court justice', 'url': 'https://www.theguardian.com/us-news/l
ive/2022/apr/04/ketanji-brown-jackson-supreme-court-confirmation-us-politics-liv
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ew Orleans Saints shake up first round of 2022 NFL draft with multipick trade - ES
PN', 'description': "The Eagles have agreed to trade two of their 2022 first-round
picks (No. 16 and No. 19) to the Saints for New Orleans' 2022 first-round pick (N
o. 18) and a 2023 first-round pick.", 'url': 'https://www.espn.com/nfl/story/_/id/
33670901/philadelphia-eagles-new-orleans-saints-shake-first-round-2022-nfl-draft-m
ulti-pick-trade', 'urlToImage': 'https://a2.espncdn.com/combiner/i?img=%2Fphoto%2F
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r's NFL draft, while the Philadelphia Eagles pushed one of their three first-round
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says it\'s "ramping up" Steam Deck shipments - The Verge', 'description': 'Valve s
ays it's "ramping up" Steam Deck shipments, will be sending more order emails ever
y week, and "sometimes" plans to send them twice per week. The handheld gaming PC
began shipping in February.', 'url': 'https://www.theverge.com/2022/4/4/23010130/v
alve-steam-deck-shipments-order-emails', 'urlToImage': 'https://cdn.vox-cdn.com/th
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e and Chloe Melas, CNN', 'title': 'Kanye West drops out of Coachella - CNN', 'desc
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e artist confirmed to CNN Monday.', 'url': 'https://www.cnn.com/2022/04/04/enterta
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and Ben Church, CNN', 'title': 'Russia invades Ukraine: Live updates - CNN', 'desc
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es retake the greater Kyiv area. Follow here for live news updates.", 'url': 'http
s://www.cnn.com/europe/live-news/ukraine-russia-putin-news-04-04-22/index.html',
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Español", 'description': 'FORT LAUDERDALE, Fla. (AP) — Jury selection in the deadl
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g for the panel that will determine whether Nikolas Cruz will be put to death for
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UDERDALE, Fla. (AP) Jury selection in the deadliest U.S. mass shooting ever to go to trial began Monday with preliminary screening for the panel that will determine whether Nikolas Cruz will b… [+3394 chars]'}, {'source': {'id': 'the-washington-post', 'name': 'The Washington Post'}, 'author': 'Spencer S. Hsu', 'title': "US seizes billionaire Veskelberg's yacht in Russia sanctions push - The Washington Post", 'description': 'The superyacht is owned by Viktor Vekselberg, an oligarch close to Russian President Vladimir Putin, as Washington seeks to punish Kremlin supporters for the invasion of Ukraine,', 'url': 'https://www.washingtonpost.com/dc-md-va/2022/04/04/yacht-seized-russia-sanctions/', 'urlToImage': 'https://www.washingtonpost.com/wp-apps/imrs.php?src=https://arc-anglerfish-washpost-prod-washpost.s3.amazonaws.com/public/RT3AADVT6QI6ZA2YECVBMNK7WQ.jpg&w=1440', 'publishedAt': '2022-04-04T17:47:36Z', 'content': 'U.S. Attorney General Merrick Garland announced the seizure, the first by the United States as it and its allies have sought to punish Kremlin supporters for Russias invasion of Ukraine.\r\nStory conti… [+7844 chars]'}, {'source': {'id': 'al-jazeera-english', 'name': 'Al Jazeera English'}, 'author': 'Al Jazeera', 'title': 'Germany takes control of Gazprom unit to ensure energy supply - Al Jazeera English', 'description': 'Gazprom Germania will come under the trusteeship of the German energy regulator until Sept. 30, Berlin has said.', 'url': 'https://www.aljazeera.com/economy/2022/4/4/germany-takes-control-of-gazprom-unit-to-ensure-gas-supply', 'urlToImage': 'https://www.aljazeera.com/wp-content/uploads/2022/04/gazprom.jpg?resize=1200%2C630', 'publishedAt': '2022-04-04T17:41:33Z', 'content': 'Germany will temporarily take control of a unit of Gazprom PJSC in the country as it seeks to safeguard security of gas supply.\r\nGazprom Germania GmbH owner of energy supplier Wingas GmbH and a gas s… [+2203 chars]'}, {'source': {'id': None, 'name': 'KCRA Sacramento'}, 'author': 'Hilda Flores', 'title': 'All victims killed in downtown Sacramento mass shooting identified by coroner's office - KCRA Sacramento', 'description': 'All six victims who died in Sunday morning's mass shooting in downtown Sacramento were identified by the coroner's office Monday morning. Twelve other people were hurt in the shooting.', 'url': 'https://www.kcra.com/article/downtown-sacramento-mass-shooting-victims-identified-coroners-office/39628540', 'urlToImage': 'https://kubrick.htvapps.com/htv-prod-media.s3.amazonaws.com/images/image-from-ios-19-1649089392.jpg?crop=1.00xw:0.845xh;0,0.0860xh&resize=1200:*', 'publishedAt': '2022-04-04T17:25:00Z', 'content': 'SACRAMENTO, Calif. —All six victims who died in Sunday mornings mass shooting in downtown Sacramento were identified by the coroners office Monday morning. Twelve other people were hurt in the shooti… [+1819 chars]'}, {'source': {'id': None, 'name': 'New York Post'}, 'author': 'Ryan Glasspiegel', 'title': 'Nike addresses Tiger Woods wearing FootJoy shoes at Augusta - New York Post ', 'description': 'Woods, who has been a Nike pitchman since 1996, was spotted in FootJoy shoes during his practice round at Augusta on Sunday, creating some surprise and confusion across social media.', 'url': 'https://nypost.com/2022/04/04/nike-addresses-tiger-woods-wearing-footjoy-shoes-at-augustanike-addresses-tiger-woods-wearing-footjoy-shoes-at-augusta/', 'urlToImage': 'https://nypost.com/wp-content/uploads/sites/2/2022/04/newspress-collage-21772000-1649090089701.png?w=1024', 'publishedAt': '2022-04-04T16:51:00Z', 'content': 'Tiger Woods traipsing around Augusta in hopes of competing in The Masters is a mostly familiar sight, except for his shoes.\r\nWoods, who has been a Nike pitchman since 1996, was spotted in FootJoy sho… [+1617 chars]'}, {'source': {'id': None, 'name': 'WTAE Pittsburgh'}, 'author': None, 'title': "Former handyman pleads guilty in Whitehall woman's death - WTAE Pittsburgh", 'description': "The DA's office said it agreed to a sentence in exchange for the guilty plea to third-degree murder and other counts in the death of Elizabeth Wiesenfeld.", 'url': 'https://www.wtae.com/article/elizabeth-wiesenfeld-douglas-berry-whitehall-guilty-plea/39629433', 'urlToImage': 'https://kubrick.htvapps.com/htv-prod-media.s3.amazonaws.com/images/elizabeth-wiesenfeld-douglas-berry-1557246134.jpg?crop=1.00xw:1.00xh;0,0&resize=1200:*', 'publishedAt': '2022-04-04T16:46:00Z', 'content': "PITTSBURGH —A man who worked as a handyman for Elizabeth Wiesenfeld and was charged in the Whitehall woman's death pleaded guilty Monday morning.\r\nWatch the breaking news report in the video player a… [+916 chars]"}, {'source': {'id': 'the-washington-post', 'name': 'The Washington Post'}, 'author': 'Lisa Rein', 'title': 'IRS fights to hire workers to diminish historic backlog of tax returns. - The Washington Post', 'description': 'The agency announced recently that tens of millions of tax returns and correspondence were caught in a backlog created by staff departures, pandemic upheavals and obsolete technology.', 'url': 'https://www.washingtonpost.com/politics/2022/04/04/irs-tax-backlog-hiring/', 'urlToImage': 'https://www.washingtonpost.com/wp-apps/imrs.php?sr

c=https://arc-anglerfish-washpost-prod-washpost.s3.amazonaws.com/public/X4JNQAVTTA
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bout 400 people had registered for the event in thethree weeks since the Biden adm
inistration announced plans to hire 5,000 people this year in Ogden and at the IRS
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e': 'NASA'}, 'author': None, 'title': 'Hubble Finds a Planet Forming in an Unconve
ntional Way - NASA', 'description': 'NASA\'s Hubble Space Telescope has directly p
hotographed evidence of a Jupiter-like protoplanet forming through what researcher
s describe as an "intense and violent process." This discovery supports a long-deb
ated theory for how planets like Jupiter form, call…', 'url': 'https://www.nasa.go
v/feature/goddard/2022/hubble-finds-a-planet-forming-in-an-unconventional-way/',
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doubles usable display brightness of the new MacBook Pro and Pro Display XDR - 9to
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ur 2021 MacBook Pro or 2019 Pro Display XDR. Here's how it works.", 'url': 'http
s://9to5mac.com/2022/04/04/vivid-doubles-usable-display-brightness-of-the-new-macb
ook-pro-and-pro-display-xdr/', 'urlToImage': 'https://i0.wp.com/9to5mac.com/wp-con
tent/uploads/sites/6/2022/04/vivid-display-brightness-macbook-pro-9to5mac.jpg?resi
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an go up to 1,600 nits of brightness, but, by default, these levels can only be re
ached when watching HDR videos. Usually, users … [+2815 chars]'}, {'source': {'i
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s of possible $1 billion Russia loss - Reuters", 'description': 'JPMorgan <a href
="https://www.reuters.com/companies/JPM.N" target="_blank">(JPM.N) could lose
about $1 billion on its Russia exposure, Chief Executive Jamie Dimon said on Monda
y, detailing the extent of the bank\'s potential losses from the conflict in Uk
r…', 'url': 'https://www.reuters.com/business/finance/jpmorgans-dimon-warns-potent
ial-1-bln-loss-russia-exposure-2022-04-04/', 'urlToImage': 'https://www.reuters.co
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as local and regional perspectives. Also entertainment, business, science, technol
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by League, Golf, Tennis and all the main world sports, plus major events such as t
he Olympic Games.', 'url': 'http://www.bbc.co.uk/sport', 'category': 'sports', 'la
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s, mock drafts, game scores, player profiles and more!', 'url': 'http://www.bleach
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and commentary for NFL, MLB, NBA, College Football, NCAA Basketball and more.', 'url': 'http://espn.go.com', 'category': 'sports', 'language': 'en', 'country': 'us'}, {'id': 'espn-cric-info', 'name': 'ESPN Cric Info', 'description': 'ESPN Cricinfo provides the most comprehensive cricket coverage available including live ball-by-ball commentary, news, unparalleled statistics, quality editorial comment and analysis.', 'url': 'http://www.espncricinfo.com/', 'category': 'sports', 'language': 'en', 'country': 'us'}, {'id': 'financial-post', 'name': 'Financial Post', 'description': 'Find the latest happenings in the Canadian Financial Sector and stay up to date with changing trends in Business Markets. Read trading and investing advice from professionals.', 'url': 'http://business.financialpost.com', 'category': 'business', 'language': 'en', 'country': 'ca'}, {'id': 'football-italia', 'name': 'Football Italia', 'description': 'Italian football news, analysis, fixtures and results for the latest from Serie A, Serie B and the Azzurri.', 'url': 'http://www.football-italia.net', 'category': 'sports', 'language': 'en', 'country': 'it'}, {'id': 'fortune', 'name': 'Fortune', 'description': 'Fortune 500 Daily and Breaking Business News', 'url': 'http://fortune.com', 'category': 'business', 'language': 'en', 'country': 'us'}, {'id': 'four-four-two', 'name': 'FourFourTwo', 'description': 'The latest football news, in-depth features, tactical and statistical analysis from FourFourTwo, the UK's favourite football monthly.', 'url': 'http://www.fourfourtwo.com/news', 'category': 'sports', 'language': 'en', 'country': 'gb'}, {'id': 'fox-news', 'name': 'Fox News', 'description': 'Breaking News, Latest News and Current News from FOXNews.com. Breaking news and video. 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It is run by Paul Graham\'s investment fund and startup incubator, Y Combinator. In general, content that can be submitted is defined as "anything that gratifies one\'s intellectual curiosity".', 'url': 'https://news.ycombinator.com', 'category': 'technology', 'language': 'en', 'country': 'us'}, {'id': 'ign', 'name': 'IGN', 'description': 'IGN is your site for Xbox One, PS4, PC, Wii-U, Xbox 360, PS3, Wii, 3DS, PS Vita and iPhone games with expert reviews, news, previews, trailers, cheat codes, wiki guides and walkthroughs.', 'url': 'http://www.ign.com', 'category': 'entertainment', 'language': 'en', 'country': 'us'}, {'id': 'independent', 'name': 'Independent', 'description': 'National morning quality (tabloid) includes free online access to news and supplements. Insight by Robert Fisk and various other columnists.', 'url': 'http://www.independent.co.uk', 'category': 'general', 'language': 'en', 'country': 'gb'}, {'id': 'mashable', 'name': 'Mashable', 'description': 'Mashable is a global, multi-platform media and entertainment company.', 'url': 'https://mashable.com', 'category': 'entertainment', 'language': 'en', 'country': 'us'}, {'id': 'medical-news-today', 'name': 'Medical News Today', 'description': 'Medical news and health news headlines posted throughout the day, every day.', 'url': 'http://www.medicalnewstoday.com', 'category': 'health', 'language': 'en', 'country': 'us'}, {'id': 'msnbc', 'name': 'MSNBC', 'description': 'Breaking news and in-depth analys

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st celebrity news, gossip, exclusive interviews and pictures from the world of mus
ic and entertainment.', 'url': 'http://www.mtv.co.uk/news', 'category': 'entertain
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u', 'description': 'We say what people are thinking and cover the issues that get
people talking balancing Australian and global moments — from politics to pop cult
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'Polygon is a gaming website in partnership with Vox Media. Our culture focused si
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atest independent tech news, reviews and analysis from Recode with the most inform
ed and respected journalists in technology and media.', 'url': 'http://www.recode.
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e, read by the White House and more lawmakers than any other site -- vital for pol
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by Arianna Huffington, Kenneth Lerer, Andrew Breitbart, and Jonah Peretti, featuri
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'The Times of India', 'description': 'Times of India brings the Latest News and To
p Breaking headlines on Politics and Current Affairs in India and around the Worl
d, Sports, Business, Bollywood News and Entertainment, Science, Technology, Health
and Fitness news, Cricket and opinions from leading columnists.', 'url': 'http://t
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online coverage of breaking news and current headlines from the US and around the world. Top stories, photos, videos, detailed analysis and in-depth reporting.', 'url': 'http://www.wsj.com', 'category': 'business', 'language': 'en', 'country': 'us'}, {'id': 'the-washington-post', 'name': 'The Washington Post', 'description': 'Breaking news and analysis on politics, business, world national news, entertainment more. In-depth DC, Virginia, Maryland news coverage including traffic, weather, crime, education, restaurant reviews and more.', 'url': 'https://www.washingtonpost.com', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'the-washington-times', 'name': 'The Washington Times', 'description': 'The Washington Times delivers breaking news and commentary on the issues that affect the future of our nation.', 'url': 'https://www.washingtontimes.com/', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'time', 'name': 'Time', 'description': 'Breaking news and analysis from TIME.com. Politics, world news, photos, video, tech reviews, health, science and entertainment news.', 'url': 'http://time.com', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'usa-today', 'name': 'USA Today', 'description': 'Get the latest national, international, and political news at USATODAY.com.', 'url': 'http://www.usatoday.com/news', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'vice-news', 'name': 'Vice News', 'description': 'Vice News is Vice Media, Inc.\'s current affairs channel, producing daily documentary essays and video through its website and YouTube channel. It promotes itself on its coverage of "under - reported stories".', 'url': 'https://news.vice.com', 'category': 'general', 'language': 'en', 'country': 'us'}, {'id': 'wired', 'name': 'Wired', 'description': 'Wired is a monthly American magazine, published in print and online editions, that focuses on how emerging technologies affect culture, the economy, and politics.', 'url': 'https://www.wired.com', 'category': 'technology', 'language': 'en', 'country': 'us'}]]}

Collect specific news with their index

Getting the first news:

In [355…
```python
r4 = requests.get(url=everything_news_url, headers=headers, params=everything_paylo
responses4 = r4.json()
#print(responses4)

#import numpy as np

#np.dtype(responses4)

# Collecting specific news with their index
responses4['articles'][0]
```

Out[355]:
```
{'source': {'id': None, 'name': 'Lifehacker.com'},
 'author': 'Emily Long',
 'title': 'The Difference Between a Service Dog and a Therapy Dog',
 'description': 'We probably all consider our dogs essential to our day-to-day lives and wish we could take them everywhere. Many dogs actually do have real jobs and go to work with their humans every day, whether they're herding livestock, aiding search-and-rescue teams, or …',
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 'publishedAt': '2022-03-09T21:00:00Z',
 'content': 'We probably all consider our dogs essential to our day-to-day lives and wish we could take them everywhere. Many dogs actually do have real jobs and go to work with their humans every day, whether th… [+2936 chars]'}
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Get the 15th news:

```
In [356…    # Collect specific news with their index
            responses4['articles'][15]
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             'author': 'Beth Skwarecki',
             'title': 'What to Know About Aphasia (Besides That It Affects Your Speech)',
             'description': 'Bruce Willis' family wrote on Instagram that the actor will be re
            tiring due to health issues, including most recently a diagnosis of aphasia. Aphas
            ia is a disorder that can affect a person's ability to communicate.Read more...',
             'url': 'https://lifehacker.com/what-to-know-about-aphasia-besides-that-it-affects
            -you-1848728176',
             'urlToImage': 'https://i.kinja-img.com/gawker-media/image/upload/c_fill,f_auto,fl
            _progressive,g_center,h_675,pg_1,q_80,w_1200/4b412a2f25f83cd9b4ec2f6ff595d1ec.jp
            g',
             'publishedAt': '2022-03-30T19:17:13Z',
             'content': 'Bruce Willis family wrote on Instagram that the actor will be retirin
            g due to health issues, including most recently a diagnosis of aphasia. Aphasia is
            a disorder that can affect a persons ability to… [+2838 chars]'}
```

Get specific data individually using API response objects

Author

```
In [183…    #print("Author: "+responses['name'][:]['author'])

           print("Author: "+responses4['articles'][14]['author'])
```

Author: Stephen Johnson

Title

```
In [184…    print("Title: "+responses4['articles'][8]['title'])
```

Title: Don't Throw Away Your Mesh Produce Bags

Description

```
In [185…    print("description: "+responses4['articles'][8]['description'])
```

description: In a perfect world, we'd all eat seasonally available local produce t
hat we've purchased directly from farmers (or farmers' markets). But that's not an
option for everyone (especially since there are entire neighborhoods that don't ha
ve access to affordable f…

Url

```
In [186…    print("url: "+responses4['articles'][8]['url'])
```

url: https://lifehacker.com/dont-throw-away-your-mesh-produce-bags-1848706794

Image

```
In [235…    print("urlToImage: "+responses4['articles'][13]['urlToImage'])
           from IPython.display import Image
           Image(responses4['articles'][13]['urlToImage'])
           #plot("urlToImage: "+responses4['articles'][8]['urlToImage'])
```

urlToImage: https://i.kinja-img.com/gawker-media/image/upload/c_fill,f_auto,fl_pro
gressive,g_center,h_675,pg_1,q_80,w_1200/5c45edfecd716ec82c07cc28a9984e3c.jpg

Out[235]:


```python
print("urlToImage: "+responses4['articles'][14]['urlToImage'])
from IPython.display import Image
Image(responses4['articles'][14]['urlToImage'])
```

urlToImage: https://i.kinja-img.com/gawker-media/image/upload/c_fill,f_auto,fl_pro
gressive,g_center,h_675,pg_1,q_80,w_1200/c7e2084f9f9edb8aabf150a6f65f8952.jpg

Out[236]:
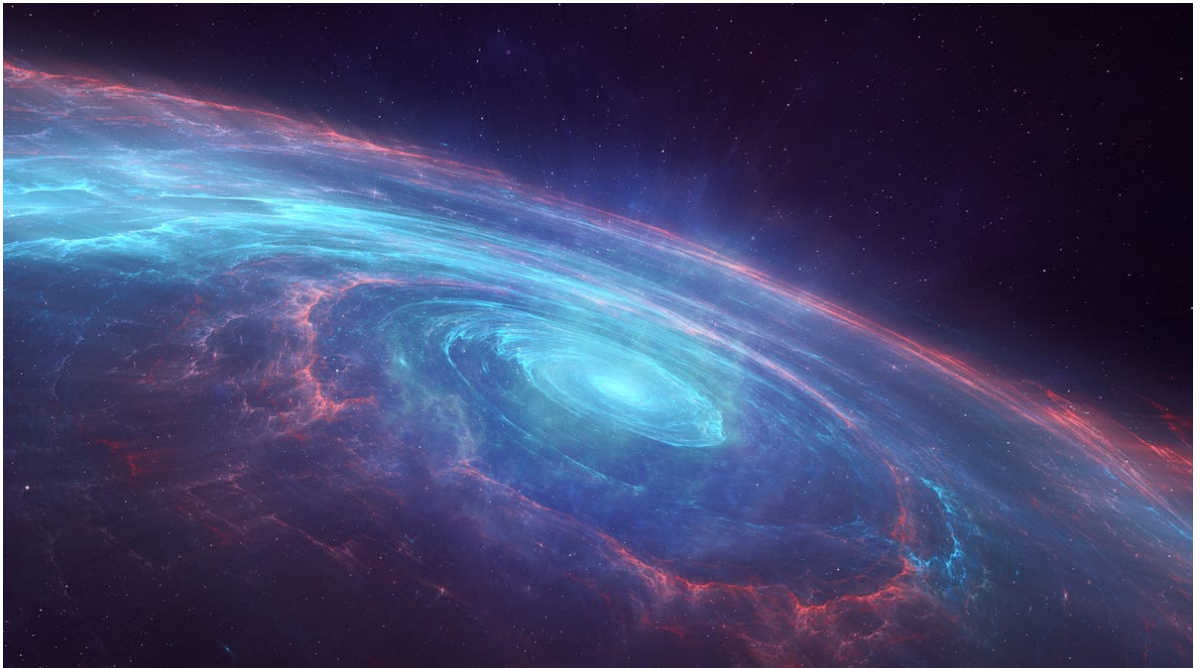
Published at

```python
print("Published at: ",responses4['articles'][14]['publishedAt'])
```

Published at: 2022-03-14T18:30:00Z

Content

```python
print("Content: "+responses4['articles'][14]['content'])
```

Content: Adherents to the simulation hypothesis contend that all existence is a co
mputer simulation, which goes like this: If humans continue to develop computing p
ower as we have been, future generations wil… [+748 chars]

Scrape hundreds or more news and save them into a CSV file ----->>Step2:

Saving / Exporting scraped news to CSV file by flattening data

```
In [357…  import requests

          # Collect 1000 of news or more with Python and API news
          r = requests.get(url=everything_news_url, headers=headers, params=everything_payloa


          r6 = response6
          r7 = response7

          responses = r.json()
          responses

          responses6 = r6.json()
          responses6

          responses7 = r7.json()
          responses7

          # Define the collected API responses
          apinewsData = responses['articles']

          apinewsData6 = responses6['articles']
          apinewsData7 = responses7['sources']

          # Normalize or unnest the JSON response
          from pandas.io.json import json_normalize
          flatData = json_normalize(apinewsData)

          flatData6 = json_normalize(apinewsData6)
          flatData7 = json_normalize(apinewsData7)

          # Create data frame, and save them to CSV
          import pandas as pd
          data = pd.DataFrame(flatData)

          data6 = pd.DataFrame(flatData6)
          data7 = pd.DataFrame(flatData7)

          #df.to_csv(r"G:/python/Data Pipeline/News API/Data Analytics/Test1.csv", encoding =
          data.to_csv(r'G:/python/Data Pipeline/News API/Data Analytics/Test1.csv'.format(pd
          data6.to_csv(r'G:/python/Data Pipeline/News API/Data Analytics/Test2.csv'.format(pd
          data7.to_csv(r'G:/python/Data Pipeline/News API/Data Analytics/Test3.csv'.format(pd
```

```
c:\users\home pc\appdata\local\programs\python\python37\lib\site-packages\ipykerne
l_launcher.py:27: FutureWarning: pandas.io.json.json_normalize is deprecated, use
pandas.json_normalize instead
c:\users\home pc\appdata\local\programs\python\python37\lib\site-packages\ipykerne
l_launcher.py:29: FutureWarning: pandas.io.json.json_normalize is deprecated, use
pandas.json_normalize instead
c:\users\home pc\appdata\local\programs\python\python37\lib\site-packages\ipykerne
l_launcher.py:30: FutureWarning: pandas.io.json.json_normalize is deprecated, use
pandas.json_normalize instead
c:\users\home pc\appdata\local\programs\python\python37\lib\site-packages\ipykerne
l_launcher.py:40: FutureWarning: The pandas.datetime class is deprecated and will
be removed from pandas in a future version. Import from datetime module instead.
c:\users\home pc\appdata\local\programs\python\python37\lib\site-packages\ipykerne
l_launcher.py:41: FutureWarning: The pandas.datetime class is deprecated and will
be removed from pandas in a future version. Import from datetime module instead.
c:\users\home pc\appdata\local\programs\python\python37\lib\site-packages\ipykerne
l_launcher.py:42: FutureWarning: The pandas.datetime class is deprecated and will
be removed from pandas in a future version. Import from datetime module instead.
```

In [ ]:

Show the data frame

In [361… `flatData`

Out[361]:

	author	title	description	url	urlToImage	publ
0	Emily Long	The Difference Between a Service Dog and a The...	We probably all consider our dogs essential to...	https://lifehacker.com/the-difference-between-...	https://i.kinja-img.com/gawker-media/image/upl...	2 09T21
1	Meredith Dietz	Create a 'Career Search Action Plan' Before Yo...	Searching for a job can feel like a full time ...	https://lifehacker.com/create-a-career-search-...	https://i.kinja-img.com/gawker-media/image/upl...	2 25T13
2	Brendan Hesse	Yes, You Can Game on a Chromebook	PC gaming is rightly considered a "high-end" c...	https://lifehacker.com/yes-you-can-game-on-a-c...	https://i.kinja-img.com/gawker-media/image/upl...	2 04T2(
3	Meredith Dietz	How to Organize a Strike (and Win)	Strikes are on the rise. Earlier today, Major ...	https://lifehacker.com/how-to-organize-a-strik...	https://i.kinja-img.com/gawker-media/image/upl...	2 10T2
4	Meredith Dietz	Finally, There's a Wordle Clone for Music-Lovers	Going "viral" used to actually mean something....	https://lifehacker.com/finally-there-s-a-wordl...	https://i.kinja-img.com/gawker-media/image/upl...	2 14T1(
5	Meghan Moravcik Walbert	Do These Two Things Every Time You Rent a Car	Many of us are desperate to hit the road and s...	https://lifehacker.com/do-these-two-things-eve...	https://i.kinja-img.com/gawker-media/image/upl...	2 21T1
6	Beth Skwarecki	How to Work a Stretching Session Into Your Day	In March, I've tried to figure out whether I c...	https://lifehacker.com/how-to-work-a-stretchin...	https://i.kinja-img.com/gawker-media/image/upl...	2 01T1
7	Meredith Dietz	Everything You Should Do on the First Day of a...	Many of us adjusted to WFH life over the past ...	https://lifehacker.com/everything-you-should-d...	https://i.kinja-img.com/gawker-media/image/upl...	2 17T1(
8	Claire Lower	8 Ways to Add a Little Luck of the Irish to Yo...	Tomorrow is March 17, also known as "St. Patri...	https://lifehacker.com/8-ways-to-add-a-little-...	https://i.kinja-img.com/gawker-media/image/upl...	2 16T1
9	Beth Skwarecki	How Long Is Too Long to Spend on a Machine at ...	If you're new to going to the gym, we have a w...	https://lifehacker.com/how-long-is-too-long-to...	https://i.kinja-img.com/gawker-media/image/upl...	2 04T1
10	Elizabeth Yuko	Why You Should Take a Walk With Someone to Sto...	One of the byproducts of living in a highly po...	https://lifehacker.com/why-you-should-take-a-w...	https://i.kinja-img.com/gawker-media/image/upl...	2 14T1

	author	title	description	url	urlToImage	publ
11	Emily Long	It's Cheaper to Buy a House Than Rent in These...	Whether you rent your home or are in the marke...	https://lifehacker.com/its-cheaper-to-buy-a-ho...	https://i.kinja-img.com/gawker-media/image/upl...	2 23T1?
12	Khamosh Pathak	How to Copy More Than One Thing to Your Clipbo...	You probably use your computer copy and paste ...	https://lifehacker.com/how-to-copy-more-than-o...	https://i.kinja-img.com/gawker-media/image/upl...	2 28T1?
13	Jeff Somers	Everything You Need to Know About Stock Splits...	In the nearly 30 years since Amazon launched a...	https://lifehacker.com/everything-you-need-to-...	https://i.kinja-img.com/gawker-media/image/upl...	2 16T1?
14	Beth Skwarecki	What the 12-3-30 Workout Gets Wrong (and What ...	The 12-3-30 workout has taken over TikTok, whi...	https://lifehacker.com/what-the-12-3-30-workou...	https://i.kinja-img.com/gawker-media/image/upl...	2 17T18
15	Beth Skwarecki	What to Know About Aphasia (Besides That It Af...	Bruce Willis' family wrote on Instagram that t...	https://lifehacker.com/what-to-know-about-apha...	https://i.kinja-img.com/gawker-media/image/upl...	2 30T1?
16	Pranay Parab	Why You Should Switch to Substack's New App	Substack is a newsletter service that lets you...	https://lifehacker.com/why-you-should-switch-t...	https://i.kinja-img.com/gawker-media/image/upl...	2 10T1?
17	Khamosh Pathak	7 Frustrating New Features in Windows 11 (and ...	Like many things in life, Windows 11 is a mixe...	https://lifehacker.com/7-frustrating-new-featu...	https://i.kinja-img.com/gawker-media/image/upl...	2 14T14
18	Jake Peterson	Why Resetting Your iPhone Could Dial 911 (and ...	Smartphones are just tiny computers, and every...	https://lifehacker.com/why-resetting-your-ipho...	https://i.kinja-img.com/gawker-media/image/upl...	2 14T18
19	Khamosh Pathak	What Is Microsoft Edge's Efficiency Mode (and ...	Microsoft Edge is a pretty good default browse...	https://lifehacker.com/what-is-microsoft-edges...	https://i.kinja-img.com/gawker-media/image/upl...	2 17T1?

In [360... `flatData6`

Out[360]:

	author	title	description	
0	Paul Best	Naomi Biden to marry her fiancé at the White H…	President Joe Biden's granddaughter, Naomi Bid…	https://www.foxn
1	Ryan W. Miller, Jorge L. Ortiz and Celina Tebo…	'We saw what happened in Bucha': Biden calls f…	President Joe Biden called for a war crimes tr…	https://www.usatoday.c
2	None	Flight cancellations, delays in Boston continu…	Dozens of flights in and out of Logan have bee…	https://www.wcvb.com
3	Mike Isaac, Lauren Hirsch	Elon Musk Becomes Twitter's Largest Shareholde…	The Tesla chief executive, who has been critic…	https://www.nytimes.com/
4	Vivian Ho, Hugo Lowell, Ed Pilkington, Martin …	Ketanji Brown Jackson confirmation vote is 'ma…	The Senate judiciary meets today, beginning a …	https://www.theguardian
5	Mike Triplett	Philadelphia Eagles, New Orleans Saints shake …	The Eagles have agreed to trade two of their 2…	https://www.espn.com/r
6	Jay Peters	Valve says it's "ramping up" Steam Deck shipme…	Valve says it's "ramping up" Steam Deck shipme…	https://www.theverge.com
7	Lisa Respers France and Chloe Melas, CNN	Kanye West drops out of Coachella - CNN	Kanye West has backed out of headlining Coache…	https://www.cnn.com/202
8	None	North Carolina outlasting Duke was a mastercla…	Despite going into the Final Four as the proje…	https://www.youtube.co
9	By <a href="/profiles/aditi-sandal">Aditi Sang…	Russia invades Ukraine: Live updates - CNN	The horrors of Russia's occupation are becomin…	https://www.cnn.com/eu
10	Terry Spencer	Parkland, Florida, school shooter's jury selec…	FORT LAUDERDALE, Fla. (AP) — Jury selection in…	https://apnews.com/a

	author	title	description	
11	Spencer S. Hsu	US seizes billionaire Veskelberg's yacht in Ru…	The superyacht is owned by Viktor Vekselberg, …	https://www.wa
12	Al Jazeera	Germany takes control of Gazprom unit to ensur…	Gazprom Germania will come under the trusteesh…	https://www.aljazeera.com
13	Hilda Flores	All victims killed in downtown Sacramento mass…	All six victims who died in Sunday morning's m…	https://www.kcra.com/art
14	Ryan Glasspiegel	Nike addresses Tiger Woods wearing FootJoy sho…	Woods, who has been a Nike pitchman since 1996…	https://nypost.com/202
15	None	Former handyman pleads guilty in Whitehall wom…	The DA's office said it agreed to a sentence i…	https://www.wtae.com
16	Lisa Rein	IRS fights to hire workers to diminish histori…	The agency announced recently that tens of mil…	https://www.washington
17	None	Hubble Finds a Planet Forming in an Unconventi…	NASA's Hubble Space Telescope has directly pho…	https://www.nasa.gov/feat
18	None	'Vivid' doubles usable display brightness of t…	Vivid for macOS doubles the usable display bri…	https://9to5mac.com/202
19	None	JPMorgan's Dimon warns of possible $1 billion …	JPMorgan <a href="https://www.reuters.com/comp…	https://www.reuters.com

In [359… `flatData7`

Out[359]:

	id	name	description	url	category	language
0	abc-news	ABC News	Your trusted source for breaking news, analysi...	https://abcnews.go.com	general	en
1	abc-news-au	ABC News (AU)	Australia's most trusted source of local, nati...	http://www.abc.net.au/news	general	en
2	al-jazeera-english	Al Jazeera English	News, analysis from the Middle East and worldw...	http://www.aljazeera.com	general	en
3	ars-technica	Ars Technica	The PC enthusiast's resource. Power users and ...	http://arstechnica.com	technology	en
4	associated-press	Associated Press	The AP delivers in-depth coverage on the inter...	https://apnews.com/	general	en
...	...	...	...	...	...	...
76	the-washington-times	The Washington Times	The Washington Times delivers breaking news an...	https://www.washingtontimes.com/	general	en
77	time	Time	Breaking news and analysis from TIME.com. Poli...	http://time.com	general	en
78	usa-today	USA Today	Get the latest national, international, and po...	http://www.usatoday.com/news	general	en
79	vice-news	Vice News	Vice News is Vice Media, Inc.'s current affair...	https://news.vice.com	general	en
80	wired	Wired	Wired is a monthly American magazine, publishe...	https://www.wired.com	technology	en

81 rows × 7 columns

```
In [374… data7.head(20)
```

Out[374]:

	id	name	description	url	category	language
0	abc-news	ABC News	Your trusted source for breaking news, analysi…	https://abcnews.go.com	general	en
1	abc-news-au	ABC News (AU)	Australia's most trusted source of local, nati…	http://www.abc.net.au/news	general	en
2	al-jazeera-english	Al Jazeera English	News, analysis from the Middle East and worldw…	http://www.aljazeera.com	general	en
3	ars-technica	Ars Technica	The PC enthusiast's resource. Power users and …	http://arstechnica.com	technology	en
4	associated-press	Associated Press	The AP delivers in-depth coverage on the inter…	https://apnews.com/	general	en
5	australian-financial-review	Australian Financial Review	The Australian Financial Review reports the la…	http://www.afr.com	business	en
6	axios	Axios	Axios are a new media company delivering vital…	https://www.axios.com	general	en
7	bbc-news	BBC News	Use BBC News for up-to-the-minute news, breaki…	http://www.bbc.co.uk/news	general	en
8	bbc-sport	BBC Sport	The home of BBC Sport online. Includes live sp…	http://www.bbc.co.uk/sport	sports	en
9	bleacher-report	Bleacher Report	Sports journalists and bloggers covering NFL, …	http://www.bleacherreport.com	sports	en
10	bloomberg	Bloomberg	Bloomberg delivers business and markets news, …	http://www.bloomberg.com	business	en

	id	name	description	url	category	language
11	breitbart-news	Breitbart News	Syndicated news and opinion website providing ...	http://www.breitbart.com	general	en
12	business-insider	Business Insider	Business Insider is a fast-growing business si...	http://www.businessinsider.com	business	en
13	business-insider-uk	Business Insider (UK)	Business Insider is a fast-growing business si...	http://uk.businessinsider.com	business	en
14	buzzfeed	Buzzfeed	BuzzFeed is a cross-platform, global network f...	https://www.buzzfeed.com	entertainment	en
15	cbc-news	CBC News	CBC News is the division of the Canadian Broad...	http://www.cbc.ca/news	general	en
16	cbs-news	CBS News	CBS News: dedicated to providing the best in j...	http://www.cbsnews.com	general	en
17	cnn	CNN	View the latest news and breaking news today f...	http://us.cnn.com	general	en
18	crypto-coins-news	Crypto Coins News	Providing breaking cryptocurrency news - focus...	https://www.ccn.com	technology	en
19	engadget	Engadget	Engadget is a web magazine with obsessive dail...	https://www.engadget.com	technology	en

```
In [373... data7.tail(20)
```

Out[373]:

	id	name	description	url	category
61	techradar	TechRadar	The latest technology news and reviews, coveri...	http://www.techradar.com	technology
62	the-american-conservative	The American Conservative	Realism and reform. A new voice for a new gene...	http://www.theamericanconservative.com/	general
63	the-globe-and-mail	The Globe And Mail	The Globe and Mail offers the most authoritati...	https://www.theglobeandmail.com	general
64	the-hill	The Hill	The Hill is a top US political website, read b...	http://thehill.com	general
65	the-hindu	The Hindu	The Hindu. latest news, analysis, comment, in-...	http://www.thehindu.com	general
66	the-huffington-post	The Huffington Post	The Huffington Post is a politically liberal A...	http://www.huffingtonpost.com	general
67	the-irish-times	The Irish Times	The Irish Times online. Latest news including ...	https://www.irishtimes.com	general
68	the-jerusalem-post	The Jerusalem Post	The Jerusalem Post is the leading online newsp...	https://www.jpost.com/	general
69	the-lad-bible	The Lad Bible	The LAD Bible is one of the largest community ...	https://www.theladbible.com	entertainment
70	the-next-web	The Next Web	The Next Web is one of the world's largest onl...	http://thenextweb.com	technology
71	the-sport-bible	The Sport Bible	TheSPORTbible is one of the largest communitie...	https://www.thesportbible.com	sports
72	the-times-of-india	The Times of India	Times of India brings the Latest News and Top ...	http://timesofindia.indiatimes.com	general
73	the-verge	The Verge	The Verge covers the intersection of technolog...	http://www.theverge.com	technology

	id	name	description	url	category
74	the-wall-street-journal	The Wall Street Journal	WSJ online coverage of breaking news and curre…	http://www.wsj.com	business
75	the-washington-post	The Washington Post	Breaking news and analysis on politics, busine…	https://www.washingtonpost.com	general
76	the-washington-times	The Washington Times	The Washington Times delivers breaking news an…	https://www.washingtontimes.com/	general
77	time	Time	Breaking news and analysis from TIME.com. Poli…	http://time.com	general
78	usa-today	USA Today	Get the latest national, international, and po…	http://www.usatoday.com/news	general
79	vice-news	Vice News	Vice News is Vice Media, Inc.'s current affair…	https://news.vice.com	general
80	wired	Wired	Wired is a monthly American magazine, publishe…	https://www.wired.com	technology

In [256… `data.dtypes`

Out[256]:
```
author         object
title          object
description    object
url            object
urlToImage     object
publishedAt    object
content        object
source.id      object
source.name    object
dtype: object
```

In [259… `data['title'].astype(str)`

Out[259]:
```
0                Why All Weight Loss Hacks Suck
1           25 of the Best Irish Movies of All Time
2     All the Terrible Slang Your Doctor Is Using Be...
3     The Difference Between a Service Dog and a The...
4     What Is 'the Ides of March,' and Should You Be...
5     Everything You Need to Know About Stock Splits...
6     Why Resetting Your iPhone Could Dial 911 (and ...
7     20 Weeds in Your Garden That You Really Should...
8                 Don't Throw Away Your Mesh Produce Bags
9     Just Be Yourself, and Other Dating Myths You S...
10    8 Ways to Add a Little Luck of the Irish to Yo...
11     Finally, There's a Wordle Clone for Music-Lovers
12             Why You Should Switch to Substack's New App
13    When to Tell Your Coworkers Your Salary (and W...
14    7 'Scientific' Theories of How the Universe Fo...
15    8 Easy Ways to Improve (or Replace) Windows 11...
16    How to Stop OneDrive From Spamming You With Em...
17    Everything You Should Do on the First Day of a...
18    Create a 'Career Search Action Plan' Before Yo...
19    7 Frustrating New Features in Windows 11 (and ...
Name: title, dtype: object
```

In [362… `data.describe()`

Out[362]:

	author	title	description	url	urlToImage	publishedA
count	20	20	20	20	20	2(
unique	11	20	20	20	20	2(
top	Meredith Dietz	The Difference Between a Service Dog and a The…	We probably all consider our dogs essential to…	https://lifehacker.com/the-difference-between-…	https://i.kinja-img.com/gawker-media/image/upl…	2022-03-09T21:00:00Z
freq	4	1	1	1	1	

In [363… `data6.describe()`

Out[363]:

	author	title	description	url
count	14	20	20	20
unique	14	20	20	20
top	Paul Best	Naomi Biden to marry her fiancé at the White H…	President Joe Biden's granddaughter, Naomi Bid…	https://www.foxnews.com/us/naomi-biden-grandda…	https://static.foxnews.com
freq	1	1	1	1

In [364… `data7.describe()`

Out[364]:

	id	name	description	url	category	language	country
count	81	81	81	81	81	81	81
unique	81	81	80	77	7	1	9
top	abc-news	ABC News	Business Insider is a fast-growing business si...	https://news.google.com	general	en	us
freq	1	1	2	5	41	81	55

In [260...
```
data = pd.DataFrame(flatData)
print(data)                                     # Print pandas DataFrame
```

```
                author                                           title  \
0       Beth Skwarecki                     Why All Weight Loss Hacks Suck
1         Ross Johnson             25 of the Best Irish Movies of All Time
2      Stephen Johnson  All the Terrible Slang Your Doctor Is Using Be...
3           Emily Long  The Difference Between a Service Dog and a The...
4      Stephen Johnson  What Is 'the Ides of March,' and Should You Be...
5          Jeff Somers  Everything You Need to Know About Stock Splits...
6         Jake Peterson  Why Resetting Your iPhone Could Dial 911 (and ...
7          Jeff Somers  20 Weeds in Your Garden That You Really Should...
8        Elizabeth Yuko            Don't Throw Away Your Mesh Produce Bags
9       Meredith Dietz  Just Be Yourself, and Other Dating Myths You S...
10        Claire Lower  8 Ways to Add a Little Luck of the Irish to Yo...
11      Meredith Dietz    Finally, There's a Wordle Clone for Music-Lovers
12        Pranay Parab         Why You Should Switch to Substack's New App
13      Meredith Dietz  When to Tell Your Coworkers Your Salary (and W...
14     Stephen Johnson  7 'Scientific' Theories of How the Universe Fo...
15      Khamosh Pathak  8 Easy Ways to Improve (or Replace) Windows 11...
16        Pranay Parab  How to Stop OneDrive From Spamming You With Em...
17      Meredith Dietz  Everything You Should Do on the First Day of a...
18      Meredith Dietz  Create a 'Career Search Action Plan' Before Yo...
19      Khamosh Pathak  7 Frustrating New Features in Windows 11 (and ...

                                          description  \
0   Sometimes, when I want to feel mad, I read abo...
1   Though intended as a celebration if Irish heri...
2   Maybe it comes from battling death itself as a...
3   We probably all consider our dogs essential to...
4   If you're noticing an existential gloom hangin...
5   In the nearly 30 years since Amazon launched a...
6   Smartphones are just tiny computers, and every...
7   Gardening is power. Sure, you might think of g...
8   In a perfect world, we'd all eat seasonally av...
9   Not to brag, but I go on a lot of first dates....
10  Tomorrow is March 17, also known as "St. Patri...
11  Going "viral" used to actually mean something....
12  Substack is a newsletter service that lets you...
13  The case for pay transparency is gaining tract...
14  The Big Bang theory has provided the most wide...
15  Every major update since Windows 8 has come wi...
16  OneDrive is among the best cloud storage servi...
17  Many of us adjusted to WFH life over the past ...
18  Searching for a job can feel like a full time ...
19  Like many things in life, Windows 11 is a mixe...

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0   Sometimes, when I want to feel mad, I read abo...      None
1   With The Van, youre invited to conclude a deli...      None
2   Maybe it comes from battling death itself as a...      None
3   We probably all consider our dogs essential to...      None
4   If youre noticing an existential gloom hanging...      None
5   In the nearly 30 years since Amazon launched a...      None
6   Smartphones are just tiny computers, and every...      None
7   Gardening is power. Sure, you might think of g...      None
8   In a perfect world, wed all eat seasonally ava...      None
9   Not to brag, but I go on a lot of first dates....      None
10  Tomorrow is March 17, also known as St. Patric...      None
11  Going viral used to actually mean something. T...      None
12  Substack is a newsletter service that lets you...      None
13  The case for pay transparency is gaining tract...      None
14  Adherents to the simulation hypothesis contend...      None
15  Lets start by customizing what is now the only...      None
16  OneDrive is among the best cloud storage servi...      None
17  Many of us adjusted to WFH life over the past ...      None
18  Searching for a job can feel like a full time ...      None
19  The right-click menu has a legacy of its own. ...      None

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15  Lifehacker.com
16  Lifehacker.com
```

```
17  Lifehacker.com
18  Lifehacker.com
19  Lifehacker.com
```

In [261...
```python
#type(responses4)

type(flatData)
```

Out[261]: `pandas.core.frame.DataFrame`

In [45]:
```python
! pip install datetime
```

```
Collecting datetime
  Downloading DateTime-4.4-py2.py3-none-any.whl (51 kB)
     ------------------------------------ 51.7/51.7 KB 882.5 kB/s eta 0:00:00
Requirement already satisfied: pytz in c:\users\home pc\appdata\local\programs\pyt
hon\python37\lib\site-packages (from datetime) (2021.3)
Collecting zope.interface
  Downloading zope.interface-5.4.0-cp37-cp37m-win_amd64.whl (210 kB)
     ------------------------------------ 210.5/210.5 KB 3.2 MB/s eta 0:00:00
Requirement already satisfied: setuptools in c:\users\home pc\appdata\local\progra
ms\python\python37\lib\site-packages (from zope.interface->datetime) (60.9.3)
Installing collected packages: zope.interface, datetime
Successfully installed datetime-4.4 zope.interface-5.4.0
```

In [427...
```python
flatData
flatData.dtypes
```

Out[427]:
```
author         object
title          object
description    object
url            object
urlToImage     object
publishedAt    object
content        object
source.id      object
source.name    object
dtype: object
```

In [430...
```python
import zipfile
import pandas as pd
from datetime import timedelta
import datetime
import time
from datetime import datetime

import os
import datetime

df = pd.DataFrame(flatData)

groupby = df.groupby('content')
out_zip = zipfile.ZipFile("5837767425.zip", "w")


ts = time.time()
#st = datetime.datetime.fromtimestamp(ts).strftime('%Y-%m-%d %H:%M:%S')

for n, g in groupby:
    print(n)
    csv = g.to_csv(index=False)
    print(csv)
    Time = format(pd.datetime.now().strftime("%Y-%m-%d-%H-%M-%S-%z"))
    #timestamp = str(now.strftime("%Y%m%d_%H%M%S"))
```

```python
#current_date_time = datetime.now()
#dt = datetime.now()
#ts = datetime.timestamp(dt)
model_name = "{}.csv"
path = r'G:/python/Data Pipeline/News API/Data Analytics'
#.format(model_name,path).split()

print(Time)
#csv_file = str(ts), r"F:/Exadel/CSV/{}.csv".format(n)
#csv_file = timestamp, r"F:/Exadel/CSV/{}.csv".format(n)
csv_file = r"G:/python/Data Pipeline/News API/Data Analytics/B" + str(Current_[
#csv_file = r"G:/python/Data Pipeline/News API/Data Analytics/{}.csv".format(n,
csv_filename = csv_file
with open(csv_filename, 'w') as out_file:
    out_file.write(csv)
out_zip.write(csv_filename)
```

Bruce Willis family wrote on Instagram that the actor will be retiring due to heal
th issues, including most recently a diagnosis of aphasia. Aphasia is a disorder t
hat can affect a persons ability to… [+2838 chars]
author,title,description,url,urlToImage,publishedAt,content,source.id,source.name
Beth Skwarecki,What to Know About Aphasia (Besides That It Affects Your Speech),"B
ruce Willis' family wrote on Instagram that the actor will be retiring due to heal
th issues, including most recently a diagnosis of aphasia. Aphasia is a disorder t
hat can affect a person's ability to communicate.Read more...",https://lifehacker.
com/what-to-know-about-aphasia-besides-that-it-affects-you-1848728176,"https://i.k
inja-img.com/gawker-media/image/upload/c_fill,f_auto,fl_progressive,g_center,h_67
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issues, including most recently a diagnosis of aphasia. Aphasia is a disorder that
can affect a persons ability to… [+2838 chars]",,Lifehacker.com

2022-04-05-03-07-54-
Going viral used to actually mean something. The online content market has never b
een more saturated, and after years of subjecting ourselves to a little bit of eve
rything all of the time, youd think… [+2649 chars]
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Meredith Dietz,"Finally, There's a Wordle Clone for Music-Lovers","Going "viral" u
sed to actually mean something. The online content market has never been more satu
rated, and after years of subjecting ourselves to a little bit of everything all o
f the time, you'd think someone would be gatekeeping what counts as "viral." Al
a…",https://lifehacker.com/finally-there-s-a-wordle-clone-for-music-lovers-1848649
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e,g_center,h_675,pg_1,q_80,w_1200/c99b5ed7ccbbea0b6df016436c18ff63.png",2022-03-14
T16:30:00Z,"Going viral used to actually mean something. The online content market
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If youre new to going to the gym, we have a whole guide to the basic, possibly emb
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on one of the more common things t… [+2124 chars]
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Beth Skwarecki,How Long Is Too Long to Spend on a Machine at the Gym?,"If you're n
ew to going to the gym, we have a whole guide to the basic, possibly embarrassing
questions that may come up in your head. But today we're going to zero in on one o
f the more common things to overthink about: How long a time is it okay to spend o
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basic, possibly embarrassing questions that may come up in your head. But today we
re going to zero in on one of the more common things t… [+2124 chars]",,Lifehacke
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In March, Ive tried to figure out whether I could fit stretching into my fitness r
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Beth Skwarecki,How to Work a Stretching Session Into Your Day,"In March, I've trie
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ing it. After almost three weeks, I'm still doing pretty much the same routine I d
escribed in my last post. My biggest focus in this time has been consistency…",htt
ps://lifehacker.com/how-to-work-a-stretching-session-into-your-day-1848738048,"htt
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er,h_675,pg_1,q_80,w_1200/07cb5675f5e14ff17016d7fe5971bf83.jpg",2022-04-01T19:00:0
0Z,"In March, Ive tried to figure out whether I could fit stretching into my fitne
ss regimen and like doing it. After almost three weeks, Im still doing pretty much
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Jeff Somers,Everything You Need to Know About Stock Splits (and Reverse Stock Splits),"In the nearly 30 years since Amazon launched as a humble online bookstore, it has moved into just about every aspect of our lives. It's now a retailer, a grocery store, a media streamer, a movie production company, a cloud computing company, a major employer,…",https://lifehacker.com/everything-you-need-to-know-about-stock-splits-and-rev-1848661571,"https://i.kinja-img.com/gawker-media/image/upload/c_fill,f_auto,fl_progressive,g_center,h_675,pg_1,q_80,w_1200/17db8919b8249baa2eed54071d5f01db.jpg",2022-03-16T19:30:00Z,"In the nearly 30 years since Amazon launched as a humble online bookstore, it has moved into just about every aspect of our lives. Its now a retailer, a grocery store, a media streamer, a movie produ… [+4451 chars]",,Lifehacker.com

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Many of us adjusted to WFH life over the past two years, maybe even joining the so-called great resignation to avoid a forced return to an in-person office. Given the opportunity to start a remote gi… [+5426 chars]
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Meredith Dietz,Everything You Should Do on the First Day of a Remote Job,"Many of us adjusted to WFH life over the past two years, maybe even joining the so-called "great resignation" to avoid a forced return to an in-person office. Given the opportunity to start a remote gig, there's no shortage of reasons to opt for the perks of …",https://lifehacker.com/everything-you-should-do-on-the-first-day-of-a-remote-j-1848666722,"https://i.kinja-img.com/gawker-media/image/upload/c_fill,f_auto,fl_progressive,g_center,h_675,pg_1,q_80,w_1200/5b04a7df0b88f5bd420e4d11b97fbede.jpg",2022-03-17T16:00:00Z,"Many of us adjusted to WFH life over the past two years, maybe even joining the so-called great resignation to avoid a forced return to an in-person office. Given the opportunity to start a remote gi… [+5426 chars]",,Lifehacker.com

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Many of us are desperate to hit the road and see somethinganythingother than the inside of our home this spring. Pair that desperation with a nationwide rental car shortage, and you may be so relieve… [+2089 chars]
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Meghan Moravcik Walbert,Do These Two Things Every Time You Rent a Car,"Many of us are desperate to hit the road and see something—anything—other than the inside of our home this spring. Pair that desperation with a nationwide rental car shortage, and you may be so relieved to actually score a vehicle that you jump in the driver'…",https://lifehacker.com/do-these-two-things-every-time-you-rent-a-car-1848679411,"https://i.kinja-img.com/gawker-media/image/upload/c_fill,f_auto,fl_progressive,g_center,h_675,pg_1,q_80,w_1200/e720c7f941c24c7664b70d24a6f6a32a.jpg",2022-03-21T15:00:00Z,"Many of us are desperate to hit the road and see somethinganythingother than the inside of our home this spring. Pair that desperation with a nationwide rental car shortage, and you may be so relieve… [+2089 chars]",,Lifehacker.com

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Microsoft Edge is a pretty good default browser. Now that its made on the same platform as Chrome, its fast, versatile, and efficient; Microsoft has put in a lot of effort to make Edge less resource-… [+1821 chars]
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Khamosh Pathak,What Is Microsoft Edge's Efficiency Mode (and How Can You Enable It)?,"Microsoft Edge is a pretty good default browser. Now that it's made on the same platform as Chrome, it's fast, versatile, and efficient; Microsoft has put in a lot of effort to make Edge less resource-intensive when compared to Chrome. But for some computers …",https://lifehacker.com/what-is-microsoft-edges-efficiency-mode-and-how-can-yo-1848666190,"https://i.kinja-img.com/gawker-media/image/upload/c_fill,f_auto,fl_progressive,g_center,h_675,pg_1,q_80,w_1200/dff3336e1fb741085e67b1db08dee8c2.jpg",2022-03-17T15:30:00Z,"Microsoft Edge is a pretty good default browser. Now that its made on the same platform as Chrome, its fast, versatile, and effi

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One of the byproducts of living in a highly politicized society is the abundance o
f arguments. Even if youre not engaging in them yourself, were constantly surround
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Elizabeth Yuko,Why You Should Take a Walk With Someone to Stop an Argument,"One of
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PC gaming is rightly considered a high-end computer task. While plenty of games wi
ll run on weak or outdated PCs and laptops, the biggest, newestgames require power
ful hardware and gaming-friendly op… [+5284 chars]
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Brendan Hesse,"Yes, You Can Game on a Chromebook","PC gaming is rightly considered
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and laptops, the biggest, newest games require powerful hardware and gaming-friend
ly operating systems like Windows or SteamOS—features that tin…",https://lifehacke
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Searching for a job can feel like a full time job itself. Its easy to feel defeate
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Meredith Dietz,Create a 'Career Search Action Plan' Before You Look for a New Jo
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nothing back the majority of the time. Maybe you're graduating soon, or making a c
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Jake Peterson,Why Resetting Your iPhone Could Dial 911 (and How to Avoid It),"Smar
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to stop working. Your device will freeze up and become unresponsive, instantly tur
ning into a $1,000+ paperweight. It's times like these when a forced reset comes i
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Strikes are on the rise. Earlier today, Major League Baseball and the players unio
n reached a (tentative) agreement for the 2022 seasonit only took 99 days of a ten
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ent for the 2022 season—it only took 99 days of a tense lockout to get there. Mean
while, over in Minneapolis, teachers are entering their third da…",https://lifehac
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Substack is a newsletter service that lets you follow specific writers and receive
their articles directly to your inbox. Its business model centers around a subscri
ptionthat allows writers to get pa… [+1889 chars]
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Pranay Parab,Why You Should Switch to Substack's New App,"Substack is a newsletter
service that lets you follow specific writers and receive their articles directly
to your inbox. Its business model centers around a subscription that allows writer
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articles directly to your inbox. Its business model centers around a subscriptiont
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The 12-3-30 workout has taken over TikTok, which is a testament to the algorithm a
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```
c:\users\home pc\appdata\local\programs\python\python37\lib\site-packages\ipykerne
l_launcher.py:24: FutureWarning: The pandas.datetime class is deprecated and will
be removed from pandas in a future version. Import from datetime module instead.
```

In [410…
```python
flatData7
flatData7.dtypes
```

Out[410]:
```
id             object
name           object
description    object
url            object
category       object
language       object
country        object
dtype: object
```

In [405…
```python
flatData6['author']
flatData6.dtypes
```

Out[405]:
```
author         object
title          object
description    object
url            object
urlToImage     object
publishedAt    object
content        object
source.id      object
source.name    object
dtype: object
```

In [424…
```python
df6 = pd.DataFrame(flatData6)

groupby6 = df.groupby('content')
out_zip6 = zipfile.ZipFile("58377674256.zip", "w")
```

In [426…
```python
for n, g in groupby6:
    print(n)
    csv = g.to_csv(index=False)
    print(csv)
    Time = format(pd.datetime.now().strftime("%Y-%m-%d-%H-%M-%S-%z"))
    #timestamp = str(now.strftime("%Y%m%d_%H%M%S"))
    #current_date_time = datetime.now()
    #dt = datetime.now()
    #ts = datetime.timestamp(dt)
    model_name = "{}.csv"
    path = r'G:/python/Data Pipeline/News API/Data Analytics'
    #.format(model_name,path).split()

    print(Time)
    #csv_file = str(ts), r"F:/Exadel/CSV/{}.csv".format(n)
    #csv_file = timestamp, r"F:/Exadel/CSV/{}.csv".format(n)
    csv_file = r"G:/python/Data Pipeline/News API/Data Analytics/C" + str(Current_[
```

```python
#csv_file = r"G:/python/Data Pipeline/News API/Data Analytics/{}.csv".format(n,
csv_filename = csv_file
with open(csv_filename, 'w') as out_file:
    out_file.write(csv)
out_zip.write(csv_filename)
```

Bruce Willis family wrote on Instagram that the actor will be retiring due to health issues, including most recently a diagnosis of aphasia. Aphasia is a disorder that can affect a persons ability to… [+2838 chars]
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th a couple of neat tricks like the new snap windows assistant and a redesigned ta

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paste some text, a link, or an image from one place to another dozens of times a d
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c:\users\home pc\appdata\local\programs\python\python37\lib\site-packages\ipykerne
l_launcher.py:5: FutureWarning: The pandas.datetime class is deprecated and will b
e removed from pandas in a future version. Import from datetime module instead.
    """

```
In [431… df7 = pd.DataFrame(flatData7)

         groupby7 = df7.groupby('category')
         out_zip = zipfile.ZipFile("58377674257.zip", "w")
```

```
In [432… for n, g in groupby7:
             print(n)
             csv = g.to_csv(index=False)
             print(csv)
             Time = format(pd.datetime.now().strftime("%Y-%m-%d-%H-%M-%S-%z"))
             #timestamp = str(now.strftime("%Y%m%d_%H%M%S"))
             #current_date_time = datetime.now()
             #dt = datetime.now()
             #ts = datetime.timestamp(dt)
             model_name = "{}.csv"
             path = r'G:/python/Data Pipeline/News API/Data Analytics'
             #.format(model_name,path).split()

             print(Time)
             #csv_file = str(ts), r"F:/Exadel/CSV/{}.csv".format(n)
             #csv_file = timestamp, r"F:/Exadel/CSV/{}.csv".format(n)
             csv_file = r"G:/python/Data Pipeline/News API/Data Analytics/D" + str(Current_[
             #csv_file = r"G:/python/Data Pipeline/News API/Data Analytics/{}.csv".format(n,
             csv_filename = csv_file
             with open(csv_filename, 'w') as out_file:
                 out_file.write(csv)
             out_zip.write(csv_filename)
```

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l_launcher.py:5: FutureWarning: The pandas.datetime class is deprecated and will b
e removed from pandas in a future version. Import from datetime module instead.
  """

In [416…
```python
#print(flatData['author'][2])
#print(flatData)

flatData7['name'][10]
```

Out[416]:
```
'Bloomberg'
```

In [417…
```python
Current_Date
```

Out[417]:
```
'04_Apr_2022'
```

In [414…
```python
data7
```

Out[414]:

	id	name	description	url	category	language
0	abc-news	ABC News	Your trusted source for breaking news, analysi…	https://abcnews.go.com	general	en
1	abc-news-au	ABC News (AU)	Australia's most trusted source of local, nati…	http://www.abc.net.au/news	general	en
2	al-jazeera-english	Al Jazeera English	News, analysis from the Middle East and worldw…	http://www.aljazeera.com	general	en
3	ars-technica	Ars Technica	The PC enthusiast's resource. Power users and …	http://arstechnica.com	technology	en
4	associated-press	Associated Press	The AP delivers in-depth coverage on the inter…	https://apnews.com/	general	en
...	...	...	...	...	...	...
76	the-washington-times	The Washington Times	The Washington Times delivers breaking news an…	https://www.washingtontimes.com/	general	en
77	time	Time	Breaking news and analysis from TIME.com. Poli…	http://time.com	general	en
78	usa-today	USA Today	Get the latest national, international, and po…	http://www.usatoday.com/news	general	en
79	vice-news	Vice News	Vice News is Vice Media, Inc.'s current affair…	https://news.vice.com	general	en
80	wired	Wired	Wired is a monthly American magazine, publishe…	https://www.wired.com	technology	en

81 rows × 7 columns

In [ ]:

In [ ]: