

MSDS 640 - Jeremy Beard - Week 6 Assignment

Reddit Scraping (r/climate)

In the Jupyter notebook below, I will seek to use social media to answer a question "How can we use social media to promote the common good?" A mind map example was given but I also performed some text analytics on the Reddit data to create some charts and insights that might not otherwise be gained. Let's begin!

First, let's pick a subreddit topic to start from, to inquire about. I choose r/climate

```
In [1]: TOPIC = 'climate'
```

```
In [2]: # install the reddit PRAW package and wordcloud, if they are not already installed
!conda install -c conda-forge praw wordcloud -y
```

```
Collecting package metadata (current_repodata.json): ...working... done
Solving environment: ...working... done
```

```
## Package Plan ##
```

```
environment location: C:\ProgramData\Anaconda3
```

```
added / updated specs:
```

- praw
- wordcloud

```
==> WARNING: A newer version of conda exists. <==
current version: 4.10.3
latest version: 22.9.0
```

Please update conda by running

```
$ conda update -n base -c defaults conda
```

```
EnvironmentNotWritableError: The current user does not have write permissions to the target environment.
environment location: C:\ProgramData\Anaconda3
```

The following NEW packages will be INSTALLED:

praw	conda-forge/noarch::praw-7.6.0-pyhd8ed1ab_0
prawcore	conda-forge/noarch::prawcore-2.3.0-pyhd8ed1ab_0
python_abi	conda-forge/win-64::python_abi-3.9-2_cp39
update_checker	conda-forge/noarch::update_checker-0.18.0-pyh9f0ad1d_0
websocket-client	conda-forge/noarch::websocket-client-1.4.1-pyhd8ed1ab_0
wordcloud	conda-forge/win-64::wordcloud-1.8.2.2-py39hb82d6ee_0

The following packages will be UPDATED:

conda	pkgs/main::conda-4.10.3-py39haa95532_0 --> conda-forge::conda-22.9.0-py39hcbf5309_1
-------	---

Preparing transaction: ...working... done
 Verifying transaction: ...working... failed

```
In [3]: import praw
import pandas as pd
from wordcloud import WordCloud
import matplotlib.pyplot as plt
import credentials
```

Create a Reddit account, then go to <https://www.reddit.com/prefs/apps> .

```
In [4]: # import credentials from my credentials.py file, stored locally
reddit = praw.Reddit(client_id=credentials.client_id,
                     client_secret=credentials.client_secret,
                     user_agent=credentials.user_agent)
```

Version 7.5.0 of praw is outdated. Version 7.6.0 was released Tuesday May 10, 2022.

Now let's explore the r/climate subreddit! Let's get the top 100 posts and create a dictionary of their titles and contents.

```
In [5]: subreddit_01 = reddit.subreddit(TOPIC).top('all', limit=100)
subreddit_01
```

```
Out[5]: <praw.models.listing.generator.ListingGenerator at 0x2794291bb50>
```

```
In [6]: comments_dict = {'title': [],
                        'body': []}

for post in subreddit_01:
    comments_dict['title'].append(post.title)
    comments_dict['body'].append(post.selftext)
    print(post.title, post.score)
```

1% of people cause 50% of aviation emissions. It has to stop. 13587

Climate change is forcing some US schools to close early for 'heat days' 9166

Billionaire No More: Patagonia Founder Gives Away the Company | Ownership transferred to a trust to ensure the company's independence and ensure that all of its profits – some \$100 million a year – are used to combat climate change and protect undeveloped land around the globe. 9034

Leaked Trump Budget Would Slash EPA's Climate, Environment Spending 6872

The man who set himself on fire in front of the Supreme Court on Earth Day was protesting climate change. The media censored his motivation. The comment thread linked here gives greater context and meaning to his sacrifice. Please share. He gave his life to get the message out. 5834

Idaho's Far Right Suffers Election Loss to 18-Year-Old Climate Activist 5063

Canada banning single-use plastics to combat pollution, climate change 3958

Dear President-Elect Trump: Climate change is not a hoax. Please consider this: It's raining near the North Pole. 3026

The emptiness of Republicans' new climate strategy | The plan is heavy on fossil fuels, light on detail. 2921

The fate of Alex Jones is a small battle won in the war against alternative facts | Tom Chatfield 2831

Supreme Court says EPA does not have authority to set climate standards for power plants 2774

Statement by President Joe Biden: "if the Senate will not move to tackle the climate crisis and strengthen our domestic clean energy industry, I will take strong executive action to meet this moment" 2700

'He's a villain': Joe Manchin attracts global anger over climate crisis 2566

Several Chinese companies alone, pollute more than ENTIRE NATIONS... 2450

Price Tag for 100% Renewable Energy for the Entire World: \$73 Trillion (or about 1 year of the global GDP), would pay for itself in 7 years 2219

A climate change report published in 2008 in Australia stated that if nothing is done, the country would have major fire disasters in 2020. It's amazing how they predicted it. What sucks is that they were right... 2150

The U.S. could see a new 'extreme heat belt' by 2053 2029

Illinois gets a foot of rain, the U.S.'s 3rd 1,000-year rain in 1 week 1946

'Zoe' becomes the world's first named heat wave 1923

LA restricts water flow to wasteful celebrity mansions: 'No matter how rich, we'll treat you the same' 1927

Red states will be hit hardest by climate change – and Republicans don't care 1903

Neil Young Goes After Four Big Banks Next: "Ditch the companies contributing to the mass fossil fuel destruction of Earth" 1892

The Scientists Are Terrified | A survey of the world's top climate researchers shows a stark finding: Most expect catastrophic levels of heating and damage soon—very soon. 1792

World's glaciers contain less ice than thought. If all ice melts, global sea rise will only be 229' 9", instead of the 230' feet we were terrified about 1767

92-Year-Old Clint Eastwood: Plant-Based Diet Is Critical for the Planet 1765

Pakistan planting 10 Billion Trees to survive against Climate Change 1759

During the Trump presidency, there were many climate-related protests, including a sit-in in Nancy Pelosi's office. Not much has changed since then regarding climate change, so where are the protestors? 1749

Indigenous 'forest guardians' reported slain in Brazil 1697

Nobel Prize Winners Are Urging Every Country To Cut Military Spending By 2% To Tackle Climate Change 1666

Ecosia search engine just planted 150 million trees. They use 100% of their profits to fight climate change. 1660

Greta Thunberg attacks world leaders: 'When the protests get too loud, you make the protests illegal' Politicians are 'role-playing' and 'pretending to wage war against fossil fuels', activist says 1651

GOP Candidate Says the Climate Bill Is Bad Because "We've Got Enough Trees" 1626

The US Senate Just Quietly Passed a Major Climate Treaty. America is in the middle of a mini-golden Age of climate policy 1620

President Biden should work for the removal of the head of the World Bank, former Vice President Al Gore said on Tuesday, calling him a "climate denier" at an event coinciding with the United Nations General Assembly. 1591

Right-wing media downplay climate change amid deadly extreme heat, attack idea that we are in a climate emergency 1583

Oil Companies Around the World Are Suing to Block Climate Action 1576

Bank of America, Citigroup, and Wells Fargo Vote to Keep Financing Fossil Fuels: The three banks have rejected shareholder resolutions to make their lending practices consistent with climate targets. 1563

The United States and the European Union are responsible for the majority of ecological damage caused by excess use of raw materials

1544

Arnold Schwarzenegger has an important message for world leaders. 1526

Europe could have a clean power system at no extra cost by 2035 | Europe could achieve a clean, reliable and expanded power system by 2035 at no extra cost compared with current, more polluting plans, researchers say. 1517

Ordering at Burger King in Austria: "Normal, or with meat?" The majority of Burger King Austria's menu will default to vegan meat unless customers specify otherwise, the chain announced last week. 1510

Climate crisis: UN chief tells governments 'half of humanity is in danger zone', as countries battle extreme heat 1423

The US supreme court has declared war on the Earth's future | In a major environmental case, the court has made clear that it would rather represent the interests of corporations and the super-rich than the needs and desires of the vast majority of Americans - or people on Earth 1406

In the End, Climate Change Is the Only Story That Matters 1390

A rapidly growing number of Americans is so concerned about climate change that we're calling Congress every month | Make a New Year's resolution to call Congress monthly, and become part of the movement that gets America to take serious action on climate 1365

Listen to us 1343

This mesmerizing Data visualization called ''Climate Spiral'' was made by climate scientist Ed Hawkins from the Research Center of Atmospheric Science, at the University of Reading. 1334

This is what fossil fuel extremism looks like. For the GOP, fossil fuels are a religion, and pointing out that they hurt people is blasphemy. 1329

Biden victory to trigger US return to Paris Agreement and fresh wave of climate action 1317

UK climate activists held in jail for up to six months before trial | Environmental activism 1319

Getting hot 1303

6 rare '1,000-year' rain events within a month? Climate change may force NOAA to update criteria 1293

Big oil is wringing humanity dry. We need a fossil fuel non-proliferation treaty | Tzeporah Berman 1288

People who disagree with scientists often overestimate their own scientific knowledge, study finds 1275

California city sets record for the most days over 100°F in a single year - and summer isn't over yet 1265

U.S. Bitcoin Mining Pollutes as Much as 6 Million Cars Annually, Report Finds 1263

Extreme China heatwave could lead to global chaos and food shortages 1259

European Parliament backs listing nuclear energy, gas as 'green' in narrow vote 1257

Bill Nye says the main thing you can do about climate change isn't recycling-it's voting 1240

The world temperature has remained above average for 445 consecutive months. And 2022 is forecasted to be in the top 10 for hottest years. 1222

More than 200 congressional staffers urge Pelosi and Schumer to act on climate or risk dooming younger generations 1229

NASA published a very cool spiral graph depicting the change in global surface temperature from 1880 to 2021 1215

The Olympics' artificial snow requires the equivalent of a day's worth of drinking water for 900 million people. Experts say it's the unfortunate future of winter sports. 1210

All References to Climate Change Have Been Deleted From the White House Website 1200

"We can no longer let people in power decide what hope is." - Greta Thunberg 1185

GG 1160

Al Gore hails Biden's historic climate bill as 'a critical turning point' | Al Gore 1155

Appropriate for this unusually warm Christmas 1134

Legality vs Morality 1121

Americans are coming around on electric cars 1111

'How Dare You!': Greta Thunberg Rages at 'Fairytale of Eternal Economic Growth' at UN Climate Summit: "Entire ecosystems are collapsing. We are at the beginning of a mass extinction and all you can talk about is money." 1107

"Shell has no immediate plans to move to a net-zero emissions portfolio over our investment horizon of 10-20 years" - from page 196/226 of the internal oil company and PR docs shared by Congress this week 1098

For the Third Time in Three Decades, Congress Punts on Serious Climate Legislation | Joe Manchin tanks Congress's big chance to cut the heat. 1092

Rhine river runs dry 1086

\$35 Billion Worth of Real Estate Could Be Underwater by 2050 - Local governments in coastal states will lose billions of dollars in

local tax revenue as rising seas claim developed land 1068
 Climate scientists are desperate: we're crying, begging and getting arrested 1056
 Heat pumps take off in coal-loving Poland amid Ukraine war | Citizens are installing solar panels and taking other green-friendly measures to free themselves from Russian energy 1026
 1 in 3 Americans now 'alarmed' by climate change. Why aren't our leaders? 1028
 How to get involved with a local group to create the political will for climate action 1020
 McDonald's, Burger King and KFC source beef and soy from Brazil, furthering the intentional burn-down of the Amazon, despite their promise to stop deforestation 1021
 Democrats' Timidity Will Kill Us All | The climate is too far gone for Joe Manchin's "compromises"—all of which seem to include handouts to fossil fuel companies. 1016
 Biden commits to banning fossil fuel lobbyists and executives from his White House transition team 1018
 This is my message to the western world – your civilisation is killing life on Earth | Amazon rainforest 1020
 Russian pipeline leaks spark climate fears as huge volumes of methane spew into the atmosphere 1009
 Amy Coney Barrett on climate change: "I would not say I have firm views on it." | Anyone who doesn't have an opinion on the most consequential issue of our time isn't qualified to evaluate factual evidence. 1000
 Shutdown due to Coronavirus May save more lives by preventing pollution than by preventing infections 1003
 Study: More than half of young people think 'humanity is doomed' 1003
 Shell's Massive Carbon Capture Plant Is Emitting More Than It's Capturing 994
 A youth group helped Biden win. Now they want him to fix climate crisis. The Sunrise Movement helped reach 3.5m voters in swing states and are determined to hold the president-elect to his promises 991
 The climate idiocy of Ron DeSantis | Florida's governor is spending \$1 billion to shield his constituents from a crisis he's actively trying to make worse. 987
 'Polluting the air we breathe': Mechanic sentenced for selling thousands of devices that allowed trucks to bypass emissions controls 993
 Federal Agency Staffers Tell Biden to Play Hardball With Manchin on Climate 985
 Goldman Sachs released a 34-page analysis of the impact of climate change. And the results are terrifying. 987
 Bill Gates thinks the 1% should foot the bill for renewable energy, and he's offering the first \$2B. 971
 L.A. needs 90,000 trees to battle extreme heat. Will residents step up to plant them? 973
 I went on TV to explain Just Stop Oil – and it became a parody of Don't Look Up | I wanted to sound the alarm about oil exploration and the climate crisis, but Good Morning Britain just didn't want to hear 976
 A rapidly growing number of Americans are so concerned about climate change that we're calling Congress every month | Call Congress monthly, and become part of the movement that gets America to take serious action on climate 978
 this article is discussing how the courts are being used to make sure that climate action cannot happen 976
 Petition for the BBC to broadcast daily objective information on the climate crisis from the IPCC similarly to how COVID19 updates were. 964
 Exxon must go to trial over alleged climate crimes, court rules 963

Now let's create a word cloud of the Reddit r/climate titles!

```
In [7]: wc = WordCloud(width=800, height=400).generate(' '.join(comments_dict['title']))
plt.imshow(wc, interpolation="bilinear")
plt.axis('off')
#plt.figure(figsize = (800,600))
```

```
Out[7]: (-0.5, 799.5, 399.5, -0.5)
```


'Climate change may mean more stink bugs. Hooray....',
 'Florida's Leaders Opposed Climate Aid. Now They're Depending on It. Before Hurricane Ian, the state's Republican politicians have rejected federal action to cut greenhouse gas emissions and boost climate resilience.',
 'Wave energy machines on Australian south coast would slash renewable energy costs, CSIRO says | Renewable energy',
 "Germany's largest power producer to end coal use by 2030 | Energy firm RWE said it had reached a deal with the government to bring forward its phaseout of coal to 2030, in order to help achieve climate protection goals.",
 'Farmers across eastern Australia brace for 'wet drought' as rain threatens major crop loss | Rural Australia',
 'Cop27 climate summit's sponsorship by Coca-Cola condemned as 'greenwash' | Cop27',
 'Stunning week of early coal closures in Australia opens path to 100 pct renewables',
 'California's three-year drought continues with no relief in sight | Climate crisis in the American west',
 'Meet the Band of TV Animals That's Talking to Preschoolers About Climate | There are few books, shows or other tools to help parents and teachers talk to preschoolers about global warming. "Octonauts: Above and Beyond" is one of the first to try.',
 "Utility climate pledges amount to 'greenwashing,' report says",
 'Climate change: Congo hosts pre-COP27 talks amid appeals to wealthy nations | UN chief Antonio Guterres urged the international community to reach a "quantum level compromise" on dealing with climate change. Delegates from over 50 countries are at the informal summit in Kinshasa.',
 'Climate Change Comes for the Freezers, a Key Tool for Alaska Natives | Threatened by stronger storms and a melting permafrost, Indigenous Alaskans are grappling with how to keep the power running to their freezers, which store their traditional subsistence foods.',
 'The Fossil Free Research movement is taking universities by storm | A student-led effort to get fossil fuel money out of university research is building on the divestment movement's biggest successes.',
 'We are at a crossroads in history: Africa can and must be a leader in clean energy | William Ruto',
 "Big Oil: We're coming to collect - Canada's National Observer",
 'How climate change is likely to worsen inflation: "If we ignore it and don't do anything about climate change, it will become a staggering cost. And it will have a huge impact not only on grocery bills, but many other aspects of our ordinary lives,"',
 'LA restricts water flow to wasteful celebrity mansions: 'No matter how rich, we'll treat you the same'',
 'New Brazilian Congress not likely to address climate',
 'The American EV boom is about to begin. Does the US have the power to charge it? | Electric, hybrid and low-emission cars',
 'Hope amid climate chaos: 'We are in a race between Armageddon and awesome' | Climate crisis',
 "'This is part of our world now': can TV shows adequately reflect the climate crisis? | Television',
 'Hurricane Ian Is a Reminder that the U.S. Has Always Been Bad at Protecting the Most Vulnerable: The country most responsible for climate change basically leaves the poor to fend for themselves. That's true whether disaster occurs in Pakistan, Puerto Rico, or Florida.',
 'How Stopping Alaskan Wildfires Can Slow Climate Change | Climate change is worsening Alaskan wildfires, which, in turn, are worsening climate change. Here's how to break this vicious cycle',
 'House Committee Investigates the Role of PR Firms in Spreading Climate Disinformation',
 'Agricultural rewilding can help restore the environment and support production of high-welfare food, researchers say',
 'What is COP27, and why is it so important? With COP27 coming up in November, here's what we know so far about this year's most important climate talks',
 'Shrinking Mississippi River Puts American Farm Trade at Risks',
 'World Bank criticised over climate crisis spending | Oxfam research suggests up to 40% of bank's reported climate-related spending cannot be accounted for',
 'What climate fiction taught me about finding hope',
 'Fossil fuels in schools: industry faces pushback in fight for hearts and minds of next generation | Australian education',
 'Palo Alto takes aim at water heaters to curb carbon emissions | City looks for 1,000 utilities customers to install electric water heaters by end next year',
 "Build Vs Buy - A VC's Perspective on Licensing Climate Tech and Outlier Startup Returns - 4WARD.VC",
 'Utility front groups fund misinformation attacking renewable power, Democrats',
 'Nord Stream gas leaks may be biggest ever, with warning of 'large climate risk'',
 'Climate change impact on global stability - 15Rock Environmental Risk Insights',

'New York follows California's gas-powered car ban lead',
 "The climate idiocy of Ron DeSantis | Florida's governor is spending \$1 billion to shield his constituents from a crisis he's actively trying to make worse.",
 'Want a career saving the planet? Become an electrician.',
 'Cop27 host Egypt warns UK not to backtrack from climate agenda | Cop27',
 'Climate change is making rainfall during hurricanes more extreme | And storm surge is getting worse as a result of higher sea levels.',
 'Will the Farm Bill be the next big climate package? It depends on the midterm elections.',
 '‘I’m tired of the lies’: the young activists leading the way on climate action | Climate crisis',
 'Rhode Island wrestles with what net-zero goal means for gas',
 'Many Utilities’ Net-Zero Commitments Amount to a Big Zero for Climate | The new “Dirty Truth” report finds power companies often prefer greenwashing to green energy',
 'Rising global temperatures point to widespread drought',
 'What will Italy’s new right-wing government mean for energy? Far-right firebrand Giorgia Meloni, expected to become Italy’s next prime minister, wants to expand nuclear and gas.',
 'Hurricane Ian: Americans urged to weigh risks of rebuilding in vulnerable areas | Hurricane Ian',
 'Ocean justice can help empower communities of color on the frontlines of the climate crisis',
 "What the war in Ukraine means for Asia's climate goals",
 'Come along as we connect the dots between climate, migration and the far-right',
 'Young people demand climate justice in run-up to Cop27 UN talks | Climate crisis',
 'Jodi-Ann Wang brings youth climate fears to the ears of G20 leaders',
 'Big oil’s dirty secret in Iraq | How out of control gas flaring in Iraq is affecting ordinary people and the planet.',
 'What can YOU do about climate change? Take this quiz to find out. Everyone has a special role in the struggle for a stable climate. What’s yours? The authors offer some questions to help you find it.',
 'Weather tracker: Hurricane Ian likely to be costliest since 1992 | Hurricane Ian',
 'Prof.Tzeporah Berman | Canadian Environmental Activist',
 'The climate crisis? We’ve been investigating it for more than 100 years | Climate crisis',
 '‘It’s scary – things are escalating fast’: protesters fill UK streets to highlight climate crisis and cost of living | Organisers hail largest wave of simultaneous protests seen in Britain for years as people turn out in over 50 towns and cities',
 'Tracking Australia’s progress on the climate crisis and the consequences of global heating | Climate crisis',
 "Bill Gates says telling people they can't eat meat or have a 'nice house' won't solve the climate crisis",
 'Why E-Bikes Could Change Everything | Cities take on transportation’s whopping carbon footprint',
 'The end of a way of life? Ranchers struggle to survive the south-west’s megadrought | Farming',
 'This 100% solar community endured Hurricane Ian with no loss of power and minimal damage',
 'The Guardians of the Future | It’s time for Indigenous voices to lead the climate fight.',
 'With ever hotter UK summers it’s time to rethink the future of grass | Summer',
 'Before, after images show Hurricane Ian storm surge completely destroyed some Sanibel Island, Florida hotels | CNN',
 'US cities increasingly integrate justice into climate planning and create policy tools for climate justice',
 'Protests held over climate crisis and energy rises',
 'Rise up, twitchers! The thinktanks are coming | Stewart Lee',
 'King Charles abandons plans to attend Cop27 ‘following Liz Truss’s advice’ | King Charles III',
 'Meet the French activists vandalising golf courses as those are exempted from drought restrictions (English subtitles, other languages available)',
 'Battered by Floods and Trapped in Debt, Pakistani Farmers Struggle to Survive | The recent flooding has plunged small farmers in sharecropping arrangements further into debt with their landlords – a cycle that has worsened as extreme weather events become increasingly common.',
 "BP in Oil Field Where 'Cancer is Rife': Communities living close to oil fields, where gas is openly burned, are at elevated risk of leukemia",
 'Cost of living and climate protesters bring London to a halt as they block bridges while thousands march across UK',
 'Could living in a bamboo home help solve the climate crisis?',

'Russian pipeline leaks spark climate fears as huge volumes of methane spew into the atmosphere',
'What will climate change look like in your area? - BBC News',
'What is climate change? A really simple guide.....',
'To understand the scale of the climate emergency, look at hurricanes | Peter Kalmus',
'Water and biodiversity threats are linked. A new U.S. envoy tack',
'Massive tree planting efforts on drylands can actually cause more warming',
'Did you know there is a water crisis? Focusing on India',
'He's worked to boost U.S. climate resilience. Amid Ian, here's how he thinks we're doing. | David Hayes, who served as special assistant to the president for climate policy since President Biden took office, is leaving his post Friday',
'Amid rising seas, island nations push for legal protections',
'Around the World, Students Are Ready to Occupy Campuses for Climate Action',
'Winds of 'radical change': Queensland breaks up with coal in stunning week in energy | Anastacia Palaszczuk promised to ditch coal by 2035, leaving experts 'gobsmacked' given the state's deep association with the fossil fuel',
'After 3rd major storm in 5 years, Magdalen Islanders say they're on the front line of climate change',
'Climate Action Failure Highlighted as Leading Global Risk by Both Scientists and Business Leaders | Climate action failure was especially seen as a very likely risk that could put the global community on a path toward irreversible outcomes that become more severe beyond the short-term.',
'Hurricane Ian is no anomaly. The climate crisis is making storms more powerful | Michael E Mann and Susan Joy Hassol',
'Hurricane Ian was a powerful storm. Real estate developers made it a catastrophe.',
'New York to Ban New Gas-Powered Vehicles, Following California's Lead',
'Extreme heatwave threat increasing warns researchers',
'Research shows oil field flaring emits nearly five times more methane than expected',
'Emissions from mining a single bitcoin have increased 126-fold in 5 years',
'This hairdresser gives lessons on how to discuss climate change with clients',
'Extreme rainfall from Hurricane Ian worsened by climate breakdown | US researchers find human-induced global heating has increased intensity of downpours in powerful mega-storm',
'How climate change is rapidly fueling super hurricanes | An unprecedented number of storms rated Category 4 or stronger have lashed the U.S. shoreline in recent years',
'Report: 200 environmental activists killed globally in 2021',
'This website is very helpful as a reference about the details of the physics of climate change, and is accessible to people with varied backgrounds. The design is dated but it functions and is good information. The contributors are climate scientists.',
'Fossil-Fuel Money Is Warping Climate Research | Universities must require full funding disclosure.',
'Saltwater Lagoon In Spain First Ecosystem To Be Granted 'Human Rights' In Europe',
'Ian's Horrific Impact Once Again Throws Light On Climate Change',
'Scientists are the first to pinpoint the sea level "fingerprint" of the Greenland ice sheet melt. Knowing fingerprints can be a tool to accurately predict sea level change is critical because the future of Earth's oceans is so uncertain.',
'DON'T LET THE SUNSHINE STATE BECOME THE EMERGENCY STATE! 🚒 The climate crisis is already here, and Florida is experiencing the effects of stronger hurricanes, extreme heat, and chronic flooding & rising seas due to manmade warming pollution. Watch the video and sign the petition!",
'Every burned town is tragic. But Newsom needs to lead with science, not sentiment',
'Revealed: Huge gas flaring emissions never reported',
'Grassroots Climate Organizers Led the Way to Scrapping Manchin's Dirty Deal',
'Methane Might Be a Bigger Climate Problem Than Thought, Study Finds | Flaring, meant to burn off the planet-warming gas at industrial sites, doesn't always work as intended, according to researchers.',
'Zoonotic diseases like COVID-19 and monkeypox will become more common, experts say',
'[Capital and Main] A Petroleum PR Blitz in New Mexico',
'Pakistan Shouldn't Get 'Aid' After Its Devastating Flood. It Is Owed Climate Reparations.',
'I recommend NASA Climate Kids for introducing kids to climate literacy.',
'How the climate crisis is driving stronger storms further inland | Hurricane Ian',
'Heat deaths, scorched trees and civil unrest: life on the climate frontline in 2022 | Climate crisis',

'Hurricane Ian's Devastation Shows the Challenge of Pricing Climate Risk | As severe weather events become more frequent, pricing the risk associated with them will only get trickier.',

'While per-capita emissions of the global top 1% increased since 1990, emissions from low and middle-income groups within rich countries declined. Contrary to the situation in 1990, 63% of the global inequality in individual emissions is now due to a gap between low and high emitters within countries',

'Researchers find Bitcoin mining is environmentally unsustainable',

'The US Senate Just Quietly Passed a Major Climate Treaty. America is in the middle of a mini-golden Age of climate policy',

'Princeton University Trustees Vote to Divest and Dissociate from Fossil Fuel Companies',

'‘You’re living in a tin can’ | Arizona’s mobile-home residents are far more likely to die from excessive heat.',

'Urban greening can reduce impact of global heating in cities, finds study | Climate crisis',

'US Government Bureau of Land Management rescinds approval of 5,750-well Monument Butte oil and gas project | State director wants a second look at the Uinta Basin drilling proposal’s climate impacts',

'The fate of the Amazon rainforest is in the hands of Brazilian voters | In Brazil’s election Sunday, President Jair Bolsonaro could be voted out. Here’s what that means for the Amazon.',

'Chicago’s new weapon against climate change: A requirement that new homes be ready for easy installation of electric appliances',

'Earth’s future depends on the Amazon. This weekend, it’s up for a vote.',

'China’s heat waves show its climate adaptation plans have a way to go',

"Indigenous groups, activists resist Congo's oil block plan",

'Honestly? The Link Between Climate Change and Hurricanes Is Complicated',

'‘Top 1%’ of emitters caused almost a quarter of global emissions since 1990',

'Loss and damage: What happens when climate change destroys lives and cultures?',

'Bitcoin climate impact greater than gold mining, study shows | Bitcoin',

'How did Hurricane Ian get so powerful so quickly? Climate change may be to blame.',

'Could a digital twin of Tuvalu preserve the island nation before it’s lost to the collapsing climate? | Tuvalu',

'EU To Ban ‘Bee Killer’ Insecticides - Good news for everyone?',

'Arctic Ocean acidifying up to four times as fast as other oceans, study finds | Arctic',

'New York State to mandate zero-emission vehicles in 2035 | Following California rules phasing in rules on the sale of new vehicles',

"‘It makes climate change real’: How carbon emissions got rebranded as ‘pollution’ in US federal law | California activists paved the way for defining climate change as an air pollution problem. Now it's federal law.",

'8 things to know about the environmental impact of the Nord Stream leaks',

'Egypt working to include climate reparations in COP27 agenda',

'Those old power plants? Now we have the means to turn them green.',

"Climate Migration: Blind and homeless amid Somalia's drought",

"‘A disastrous year’: Swiss glaciers melt away at record rate",

'The Guardian’s climate crisis reporting goes where others fear - or refuse - to tread | George Monbiot',

'Climate Devastation and Fossil Fuel Profits | The Bullet',

'AGL will close Victoria’s coal-fired power station Loy Yang A a decade early | AGL',

'NZ minister backs fossil fuel ban treaty',

'Journey inside Pakistan’s flood zone reveals how poorest were hit hardest',

'Scientists have observed that when Greenland’s ice melts, it runs down to the ocean, leaving sand and gravel behind previously trapped in ice. Mining these deposits could be lucrative for Greenland’s economy but carries several environmental and economic risks.',

'Hurricane Ian is going to flood out Florida – and this is a constant climate change problem | Climate change will cause sea levels to rise, exacerbate hurricane damage and in other ways create more floods',

'To Confront the Climate Crisis, Universities Must Refuse Fossil Fuel Industry Funding | Every research dollar, lab hour, and project report that is beholden to or biased by fossil fuel industry influence is a missed opportunity to address the climate crisis.',

'The so-called Manchin side deal that would have fast-tracked energy projects including the controversial Mountain Valley Pipeline has been defeated, for now.',

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'Hurricane Ian Is a Storm That We Knew Would Occur| Too much climate energy, too little climate action.',
'The unlikely allies who sank Joe Manchin's energy deal: Progressives and Republicans came together to shoot down a bill on permitting reforms.',
'New report highlights the importance of social connectedness for climate resilience | "You don't want to wait until the flood waters are rising or people are dying in the streets to hope that there's a social, connected community that can come together."',
"Score it a win! Manchin's Big Oil Gift Basket Scuttled for Now",
'Majority of Gen Z unaware of how meat consumption impacts climate',
'How methane leaks accelerate global warming',
'Manchin's Bill Could Wipe Out Climate Gains by Fast-Tracking Fossil Fuel Projects',
'Fossil fuel recruiters banned from UK university careers service | Fossil fuel divestment',
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'Climate Change Activists Protest Against Peabody Peaker Plant in Massachusetts',
'Australia urged to adopt 75% emissions reduction target by 2035 if it is to reach net zero | Australian politics',
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'Emissions declarations by equity firm Carlyle under question',
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 'Interactive map of electricity sources and Ted Talk podcast about nuclear benefits.',
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 'Inside the two-day scramble to add drought funding to the U.S. climate law',
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 'Analysis: Aviation industry emissions plans consistent with 4°C of warming',
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 'Tonga volcano blast was unusual, could even warm the Earth',
 'Climate change: Spike in Amazon emissions linked to lack of law enforcement',

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 'California could ban new methane gas burning heaters after 2030. The goal: healthier air | Ditching fossil-gas furnaces and water heaters isn't just good for the climate. Research shows it's a smart move for human health.',
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 'Britain's model of monarchy can never be truly green',
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'How an effort to reduce fossil fuel use led to another environmental problem: light pollution',
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'Quantifying delivered carbon removal as a buyer of early technologies',
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'/r/climate/comments/xmetiv/alarm_as_koch_bankrolls_dozens_of_election_denier/',
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'/r/climate/comments/xmpye1/lightning_and_heavy_rains_kill_36_in_northern/',
'/r/climate/comments/xm0gex/the_climate_movement_was_built_for_a_world_before/',
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'text': ["There are several groups with reasonably widespread chapters trying to push climate action:\n\n* Sunrise – youth-oriented, pushing the Green New Deal. US only. Find a local hub [here](https://sunrisemovement.org/hubs). Email the hub organizer to get involved. They're volunteers, and often busy, so follow up if you don't hear back.\n\n* Citizens Climate Lobby – broader age range, st

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'I know this has probably been here before, but Taylor Swifts private jet released almost 8,300 metric tons of carbon emissions last year. \n\nDoing the math, the normal passenger vehicle release around 4 to 5 metric tones per year... \n\nSo you would basically have to drive around 1,803 years to get to the “level of her private jet. \n\nI’m sure she has access to more environmentally friendly ways to travel around. (I believe she was not on your if I’m not mistaken?)',

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In [10]: len(reddit_data)
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Out[10]: 6

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In [11]: type(reddit_data)
```

Out[11]: dict

```
In [12]: for x in reddit_data:
          print(x)
```

title
link
author
n_comments
score
text

After querying the data a bit, we'll create a pandas dataframe from the Reddit r/climate data

```
In [13]: df_01 = pd.DataFrame(reddit_data)
          df_01
```

Out[13]:		title	link	author	n_comments	score	text
	0	How to get involved with a local group to crea...	/r/climate/comments/b49xgi/how_to_get_involved...	silence7	183	1029	There are several groups with reasonably wides...
	1	After the Storm, the Mold: Warming Is Worsenin...	/r/climate/comments/xvtho0/after_the_storm_the...	silence7	1	317	
	2	'The worst we've seen': Ranchers threatened by...	/r/climate/comments/xvfizo/the_worst_weve_seen...	washingtonpost	21	524	
	3	Deadly Heat Dome Was a 1-in-10,000-Year Event....	/r/climate/comments/xvgxav/deadly_heat_dome_wa...	stankmanly	28	278	
	4	Hurricanes Are Pummeling Us. The Media Is Part...	/r/climate/comments/xvtlp2/hurricanes_are_pumm...	silence7	4	55	

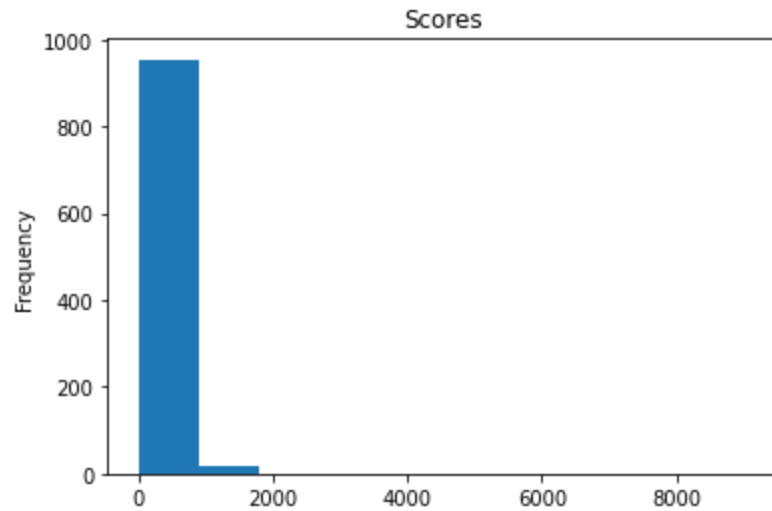
	970	As climate disasters unfold, developing nation...	/r/climate/comments/wz80pp/as_climate_disaster...	silence7	2	16	
	971	Bill aims to end Big Oil's tax funded 'climate...	/r/climate/comments/wygk66/bill_aims_to_end_bi...	SpeakUpOnClimate	12	834	
	972	Pakistan, a country that produces less than 1%...	/r/climate/comments/wzb8f8/pakistan_a_country_...	vibing_introvert	0	9	
	973	New Black-Focused Climate Solutions Initiative...	/r/climate/comments/wz9vwj/new_blackfocused_cl...	silence7	0	3	

	title	link	author	n_comments	score	text
974	Google Changed Emission Calculations in Google...	/r/climate/comments/wyr08j/google_changed_emis...	bigangx2	1	36	

975 rows × 6 columns

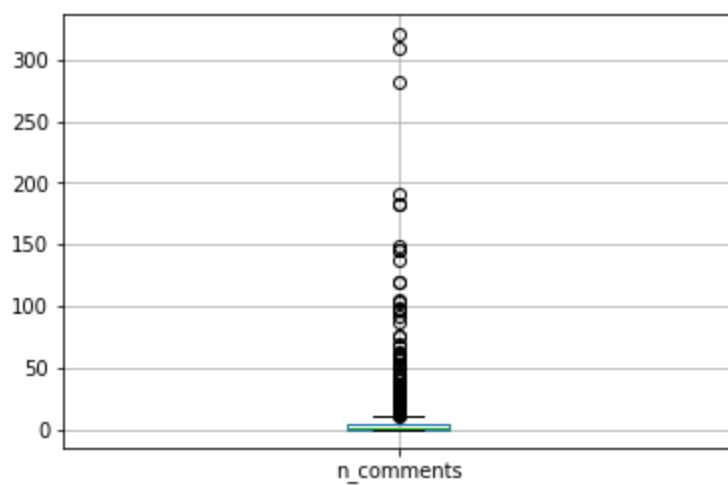
```
In [14]: df_01['score'].plot.hist(bins=10, title='Scores', xlabel='Score')
```

```
Out[14]: <AxesSubplot:title={'center':'Scores'}, ylabel='Frequency'>
```



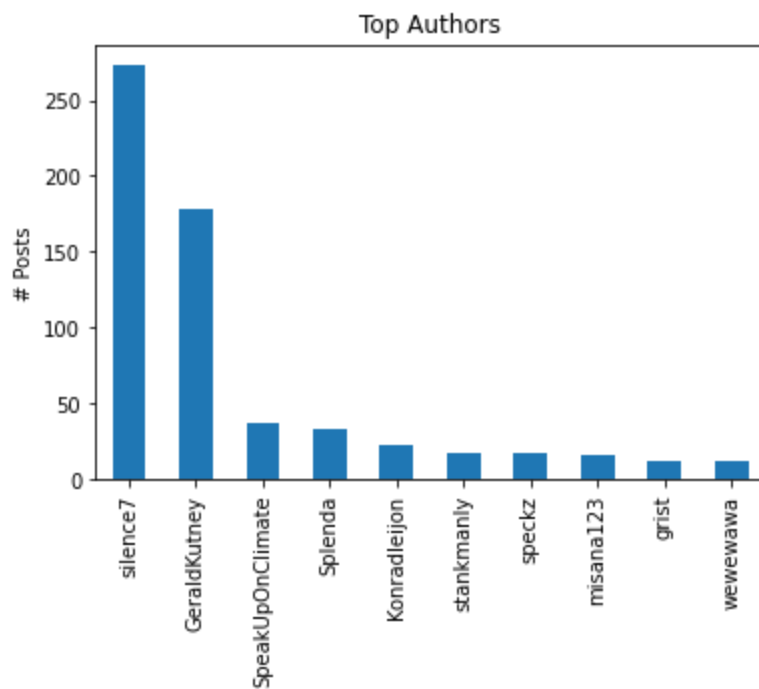
```
In [15]: df_01.boxplot('n_comments')
```

```
Out[15]: <AxesSubplot:>
```



```
In [16]: df_01['author'].value_counts()[:10].plot.bar(title='Top Authors', ylabel='# Posts')
```

```
Out[16]: <AxesSubplot:title={'center':'Top Authors'}, ylabel='# Posts'>
```

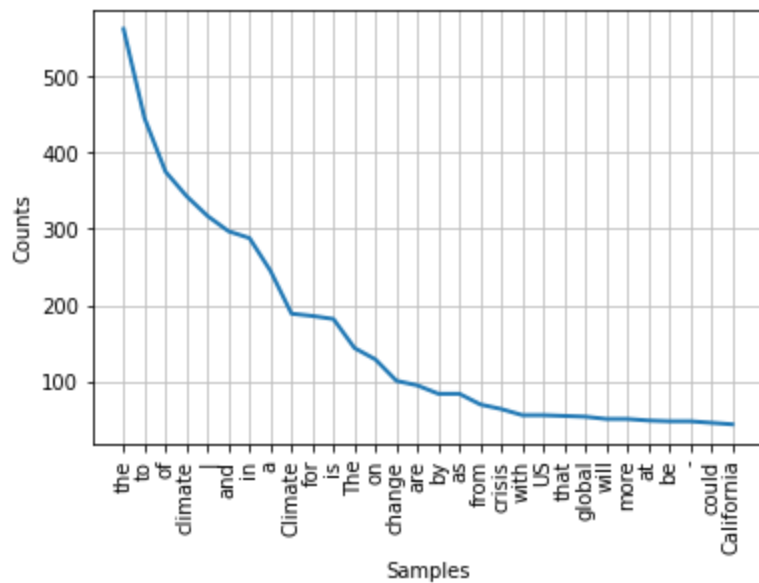


```
In [17]: import nltk
fd = nltk.FreqDist(' '.join(df_01['title']).split())
fd.most_common(30)
```

```
Out[17]: [('the', 562),
```

```
('to', 445),  
('of', 375),  
('climate', 343),  
('|', 317),  
('and', 297),  
('in', 288),  
('a', 245),  
('Climate', 189),  
('for', 186),  
('is', 182),  
('The', 144),  
('on', 129),  
('change', 101),  
('are', 95),  
('by', 84),  
('as', 84),  
('from', 70),  
('crisis', 64),  
('with', 56),  
('US', 56),  
('that', 55),  
('global', 54),  
('will', 51),  
('more', 51),  
('at', 49),  
('be', 48),  
('-', 48),  
('could', 46),  
('California', 44)]
```

In [18]: `fd.plot(30)`



Out[18]: <AxesSubplot:xlabel='Samples', ylabel='Counts'>

The chart above of the most frequently used words within the r/climate subreddit is a little boring! There are too many common words like "the", "to", and "and" used. Therefore, we can do something called "stop word removal". "Stop words" are common words that add no meaning to sentences. These can be found and removed from strings of words. Let's remove some stop words!

In [19]: `nltk.download('stopwords')`

[nltk_data] Downloading package stopwords to
[nltk_data] C:\Users\jerem\AppData\Roaming\nltk_data...
[nltk_data] Package stopwords is already up-to-date!
True

Out[19]:

In [20]: `from nltk.corpus import stopwords
stops = stopwords.words('english')
stops`

Out[20]: ['i',
'me',
'my',
'myself',
'we',
'our',
'ours',
'ourselves',
'you',
"you're",

"you've",
"you'll",
"you'd",
'your',
'yours',
'yourself',
'yourselves',
'he',
'him',
'his',
'himself',
'she',
"she's",
'her',
'hers',
'herself',
'it',
"it's",
'its',
'itself',
'they',
'them',
'their',
'theirs',
'themselves',
'what',
'which',
'who',
'whom',
'this',
'that',
"that'll",
'these',
'those',
'am',
'is',
'are',
'was',
'were',
'be',
'been',
'being',
'have',
'has',
'had',
'having',
'do',
'does',
'did',
'doing',

'a',
'an',
'the',
'and',
'but',
'if',
'or',
'because',
'as',
'until',
'while',
'of',
'at',
'by',
'for',
'with',
'about',
'against',
'between',
'into',
'through',
'during',
'before',
'after',
'above',
'below',
'to',
'from',
'up',
'down',
'in',
'out',
'on',
'off',
'over',
'under',
'again',
'further',
'then',
'once',
'here',
'there',
'when',
'where',
'why',
'how',
'all',
'any',
'both',
'each',

'few',
'more',
'most',
'other',
'some',
'such',
'no',
'nor',
'not',
'only',
'own',
'same',
'so',
'than',
'too',
'very',
's',
't',
'can',
'will',
'just',
'don',
"don't",
'should',
"should've",
'now',
'd',
'll',
'm',
'o',
're',
've',
'y',
'ain',
'aren',
"aren't",
'couldn',
"couldn't",
'didn',
"didn't",
'doesn',
"doesn't",
'hadn',
"hadn't",
'hasn',
"hasn't",
'haven',
"haven't",
'isn',
"isn't",

```
'ma',  
'mightn',  
"mightn't",  
'mustn',  
"mustn't",  
'needn',  
"needn't",  
'shan',  
"shan't",  
'shouldn',  
"shouldn't",  
'wasn',  
"wasn't",  
'weren',  
"weren't",  
'won',  
"won't",  
'wouldn',  
"wouldn't"]
```

In [21]:

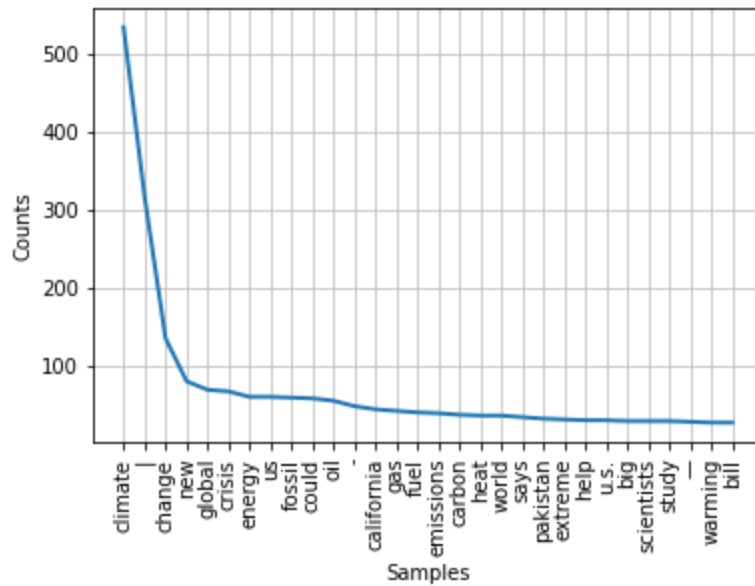
```
words = ' '.join(df_01['title']).lower().split()  
cleaned_words = [w for w in words if w not in set(stops)]  
cleaned_fd = nltk.FreqDist(cleaned_words)  
cleaned_fd.most_common(30)  
  
postwords = ' '.join(df_01['text']).lower().split()  
cleaned_posts = [w for w in postwords if w not in set(stops)]  
cleaned_posts_fd = nltk.FreqDist(cleaned_posts)  
cleaned_posts_fd.most_common(30)
```

Out[21]:

```
[('climate', 6),  
 ('us', 5),  
 ('*', 4),  
 ('find', 4),  
 ('local', 4),  
 ('get', 4),  
 ('groups', 3),  
 ('chapters', 3),  
 ('-', 3),  
 ('active', 3),  
 ('one', 3),  
 ('group', 3),  
 ('pushing', 2),  
 ('hub', 2),  
 ("they're", 2),  
 ('citizens', 2),  
 ('lobby', 2),  
 ('age', 2),  
 ('carbon', 2),
```

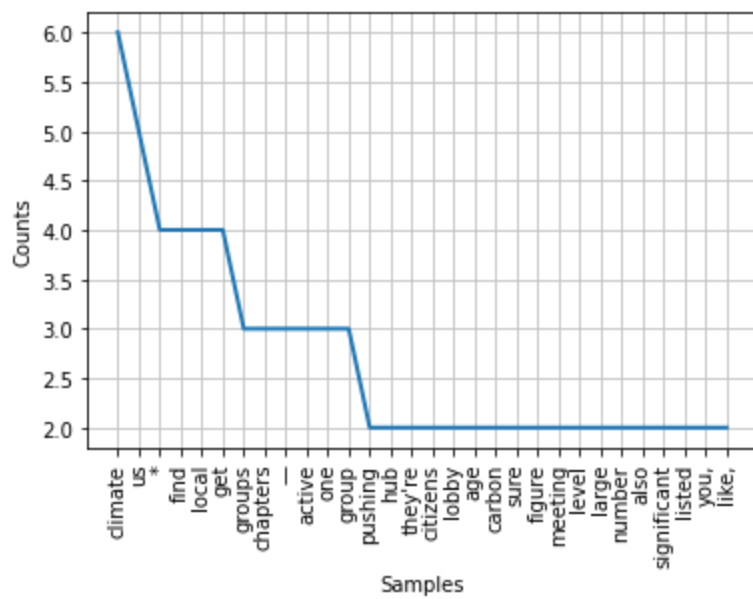
```
('sure', 2),  
('figure', 2),  
('meeting', 2),  
('level', 2),  
('large', 2),  
('number', 2),  
('also', 2),  
('significant', 2),  
('listed', 2),  
('you,', 2),  
('like,', 2)]
```

```
In [22]: cleaned_fd.plot(30)
```



```
Out[22]: <AxesSubplot:xlabel='Samples', ylabel='Counts'>
```

```
In [23]: cleaned_posts_fd.plot(30)
```



Out[23]: <AxesSubplot:xlabel='Samples', ylabel='Counts'>

We can see the filtered most commonly used words are much more meaningful without the stop words included. Let's write a report now :)

Thank you, Jeremy Beard

In []:

In []: