

crypto_sentiment

May 29, 2021

1 Unit 12 - Tales from the Crypto

1.1 1. Sentiment Analysis

Use the [newsapi](#) to pull the latest news articles for Bitcoin and Ethereum and create a DataFrame of sentiment scores for each coin.

Use descriptive statistics to answer the following questions: 1. Which coin had the highest mean positive score? 2. Which coin had the highest negative score? 3. Which coin had the highest positive score?

```
[47]: # Initial imports
import os
import pandas as pd
from dotenv import load_dotenv
from newsapi import NewsApiClient
import nltk as nltk
nltk.download('vader_lexicon')
nltk.download('wordnet')
nltk.download('stopwords')
nltk.download('punkt')

from nltk.sentiment.vader import SentimentIntensityAnalyzer
from nltk.corpus import stopwords, reuters
from nltk.tokenize import word_tokenize
from nltk.stem import WordNetLemmatizer
from wordcloud import WordCloud
import re

analyzer = SentimentIntensityAnalyzer()

%matplotlib inline
```

```
[nltk_data] Downloading package vader_lexicon to
[nltk_data] /Users/martinrasumoff/nltk_data...
[nltk_data] Package vader_lexicon is already up-to-date!
```

```
[nltk_data] Downloading package wordnet to
[nltk_data]      /Users/martinrasumoff/nltk_data...
[nltk_data] Unzipping corpora/wordnet.zip.
[nltk_data] Downloading package stopwords to
[nltk_data]      /Users/martinrasumoff/nltk_data...
[nltk_data] Unzipping corpora/stopwords.zip.
[nltk_data] Downloading package punkt to
[nltk_data]      /Users/martinrasumoff/nltk_data...
[nltk_data] Unzipping tokenizers/punkt.zip.
```

```
[2]: # Read your api key environment variable
load_dotenv('example.env')
news_api = os.getenv("news_api")
news_api
```

```
[2]: '79a0cda5b8ed483a8a49574abeb92960'
```

```
[5]: # Create a newsapi client
newsapi = NewsApiClient(api_key=news_api)
```

```
[14]: # Fetch the Bitcoin news articles
btc_headlines = newsapi.get_everything(q="bitcoin", language="en",
    ↳page_size=100,sort_by="relevancy")
btc_headlines
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cars, Elon Musk revealed in a tweet that it will "suspend" the effort. According
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                    {'source': {'id': 'techcrunch', 'name': 'TechCrunch'},
                    'author': 'Alex Wilhelm',
                    'title': 'What Square’s smashing earnings tell us about consumer bitcoin
demand',
                    'description': "Today we're talking Square earnings and its bitcoin base,
especially in how it relates to the results of other entities that offer bitcoin
sales.",
                    'url': 'http://techcrunch.com/2021/05/07/what-squares-smashing-earnings-tell-
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us-about-consumer-bitcoin-demand/',
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fintech company reported a staggering $5.06 billion in revenue in its Q1 2021
earnings report, far ahead of an expected tally of $3.36 bi... [+2045 chars]'},
  {'source': {'id': 'the-verge', 'name': 'The Verge'}},
  'author': "Sean O'Kane",
  'title': 'Tesla stops taking Bitcoin for vehicle purchases, citing
environmental harm',
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out of concern that it will contribute to greater consumption of fossil fuels,
according to a statement CEO Elon Musk tweeted Wednesday. Tesla had only just
started accepting bitcoin in late March.',
  'url': 'https://www.theverge.com/2021/5/12/22433153/tesla-suspend-bitcoin-
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  'title': 'Coinbase is down amid massive cryptocurrency plunge',
  'description': 'Cryptocurrency exchange Coinbase is experiencing a partial
outage amid a massive plummet in cryptocurrencies (including Bitcoin, Ethereum,
and Dogecoin).',
  'url': 'https://www.theverge.com/2021/5/19/22443701/coinbase-outage-bitcoin-
ethereum-price-falling-cryptocurrency',
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  'content': 'Illustration by Alex Castro / The Verge\r\n\n\n\n Cryptocurrency
exchange Coinbase is experiencing a "partial" outage this morning for its entire
site and application. Additionally, both Coinbase and Bin... [+1307 chars]}',
  {'source': {'id': 'mashable', 'name': 'Mashable'}},
  'author': 'Tim Marcin',
  'title': "Mark Zuckerberg has a goat named Bitcoin and we're a little worried
for it",
  'description': "Mark Zuckerberg posted a picture of his two, frankly

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adorable, goats noting their names are Max and Bitcoin.\nAnd to that I say: OK then.\xa0\nHere's the post in question.\xa0\n\r\n\nLook at those cute little goats. Very cute, very nice. Bitcoin looks very chill sitting ...",

'url': 'https://mashable.com/article/mark-zuckerberg-goat-bitcoin-max/',

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'content': "Mark Zuckerberg posted a picture of his two, frankly adorable, goats noting their names are Max and Bitcoin.\r\nAnd to that I say: OK then.\xa0\r\nHere's the post in question.\xa0\r\nLook at those cute little go... [+1482 chars]"},

{'source': {'id': 'wired', 'name': 'Wired'},

'author': 'Gregory Barber',

'title': 'Elon Musk Tweets-and Crypto Markets Show Their Growing Pains',

'description': 'The Tesla and SpaceX billionaire has sent Dogecoin and Bitcoin on a roller coaster this month-and exposed weaknesses in the cryptocurrency market along the way.',

'url': 'https://www.wired.com/story/elon-musk-dogecoin-bitcoin-tweets-prices/',

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'content': 'Last week, whenElon Musk tweeted that he had spoken with the team of Doge developers about how to make the coin more efficient, the impact was predictable: It sent Dogecoin to the moon. It was just t... [+3313 chars]'},

{'source': {'id': 'mashable', 'name': 'Mashable'},

'author': 'Sasha Lekach',

'title': 'Elon Musk says Bitcoin no longer accepted for Tesla purchases',

'description': 'Tesla CEO Elon Musk has changed his stance on cryptocurrency.\nBack in March, Musk announced Tesla was accepting Bitcoin for its electric cars. Earlier this year the EV company even bought \$1.5 billion of the cryptocurrency.\nOn Wednesday afternoon, that all en...',

'url': 'https://mashable.com/article/elon-musk-tesla-suspends-bitcoin/',

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prices of most major crypto assets plummeting - Bitcoin, in particular, was trading at about \$59,500 last Tuesday, only to dr...",

'url': 'https://mashable.com/article/elon-musk-bitcoin-complicated/',

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'author': 'Rita Liao',

'title': 'Crypto asset manager Babel raises \$40M from Tiger Global, Bertelsmann and others',

'description': 'Three years after its inception, crypto financial service provider Babel Finance is racking up fundings and partnerships from major institutional investors. The startup said Monday that it has closed a \$40 million Series A round, with lead investors including...',

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selloff takes place..',
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   'url': 'https://www.cnn.com/2021/05/01/investing/ethereum-bitcoin-record-high/index.html',
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   'url': 'https://gizmodo.com/paypal-will-let-users-transfer-bitcoin-to-third-party-w-1846982029',
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   'author': 'Jack Morse',
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pipelines in the United States, found that out the hard way this week. It reportedly forked over almost \$5 million worth of bi...",

'url': 'https://mashable.com/article/colonial-pipeline-paid-bitcoin-ransomware/',

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{'source': {'id': 'the-verge', 'name': 'The Verge'},

'author': 'Mitchell Clark',

'title': 'Iran bans cryptocurrency mining for four months to stave off blackouts',

'description': 'As blackouts affect some of Iran’s major cities, the country is banning cryptocurrency mining and going after unlicensed operations. The blackouts have been blamed on a drought affecting hydroelectric generation.',

'url': 'https://www.theverge.com/2021/5/26/22455264/iran-cryptocurrency-mining-ban-annual-summer-bitcoin-spies',

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'content': 'The ban affects licensed and unlicensed miners alike\r\nPhoto by Michele Doying / The Verge\r\nIran is temporarily banning cryptocurrency mining after some of the countrys major cities experienced repeat... [+2224 chars]'}],

{'source': {'id': 'techcrunch', 'name': 'TechCrunch'},

'author': 'Lucas Matney',

'title': 'Elon Musk giveth and taketh away',

'description': 'Hello friends, and welcome back to Week in Review! Last week, I wrote about Facebook’s never-ending Trump problem. This week, I’m looking at Elon Musk’s wild week of whipping crypto markets. If you’re reading this on the TechCrunch site, you can get this in y...',

'url': 'http://techcrunch.com/2021/05/16/elon-musk-giveth-and-taketh-away/',

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{'source': {'id': 'mashable', 'name': 'Mashable'},

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'title': 'Elon Musk is thinking about letting customers buy a Tesla with DOGE',

'description': 'Elon Musk really, REALLY likes Dogecoin.\xa0\nAfter endlessly shilling the joke cryptocurrency on Twitter, in interviews and on television, and after announcing that his company SpaceX will literally send a satellite named Doge-1 to the moon, Musk now seems to be...',

'url': 'https://mashable.com/article/elon-musk-doge-tesla/',

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{'source': {'id': 'reuters', 'name': 'Reuters'},

'author': 'Kirstin Ridley',

'title': "Australia's Wright launches lawsuit over \$5.7 bln bitcoin haul - Reuters",

'description': 'An Australian computer scientist who alleges he created bitcoin has launched a London High Court lawsuit against 16 software developers in an effort to secure bitcoin worth around 4 billion pounds (\$5.7 billion) he says he owns.',

'url': 'https://www.reuters.com/technology/australias-wright-launches-lawsuit-over-57-bln-bitcoin-haul-2021-05-12/',

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'author': 'Kevin Buckland,Alun John',

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'description': 'Bitcoin rebounded to about \$50,000 in Asian trading on Thursday after plunging as much as 17% after Elon Musk tweeted Tesla Inc (TSLA.0) had stopped accepting bitcoin to purchase its vehicles due to climate concerns.',

'url': 'https://www.reuters.com/technology/bitcoin-ticks-back-asia-after-musk-tweet-sent-price-down-17-2021-05-13/',

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cybercurrency - Reuters",
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 'url': 'https://www.reuters.com/technology/tesla-stops-taking-bitcoin-cites-fossil-fuel-use-mining-cybercurrency-2021-05-12/',
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 {'source': {'id': None, 'name': 'Gizmodo.com'},
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 'title': "Coinbase Says Screw It, We'll Let You Buy Doge",
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{'source': {'id': None, 'name': 'Global News'},

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'title': 'Elon Musk says Tesla will no longer accept Bitcoin, cites environmental concerns - Global News',

'description': "Elon Musk says Tesla will no longer accept Bitcoin, cites environmental concerns\xa0\xa0Global News\r\nBitcoin, Dogecoin sink after Elon Musk walks back Tesla's support for crypto transactions\xa0\xa0Yahoo Canada Finance\r\nTesla to stop accepting b...",

'url': 'https://globalnews.ca/news/7856994/tesla-suspending-bitcoin-elon-musk/',

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 'title': "Musk's bitcoin turnaround pleases some Tesla investors - Reuters",
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Angeles, California, U.S., June 13, 2019. REUTERS/Mike Blake/File Photo/File PhotoElon Musk's decision to stop accepting bitcoin as p... [+4606 chars]"},

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the latest landmark on its march to wider acceptance. A growing embrace by major
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Wednesday evening conflicts not only with his previous stance by holding bitcoin
himself and investing for Tesla but also with research from Cathie Wood's Ark
Invest.\xa0\nThe star stock picker's firm i...",
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Management. Elon Musk is the SpaceX owner and Tesla CEO.\r\nArk Invest, File (for Wood) and Hannibal Hanschke/Pool Photo via AP, File (for Mus... [+2123 chars]'},

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biggest and best-known cryptocurrency, is down 48% from the year'... [+223 chars]"},

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 'content': 'By Reuters Staff\r\n(Adds detail of reported EIB plan and bitcoin price)\r\nSINGAPORE, May 3 (Reuters) - Cryptocurrency ether hit a record high on Monday to trade within a whisker of \$3,000, extending la... [+684 chars]'},

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 'author': 'Allana Akhtar',
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negative impact on the environment from mining",

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'url': 'https://www.businessinsider.com/tesla-bans-bitcoin-payments-due-to-impact-on-environment-2021-5',

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'title': "Musk decries bitcoin's 'insane' energy use after Tesla payment U-turn - Reuters",

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'description': 'The first pizzas will be delivered this Saturday.',

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amount of energy used to produce bitcoin on Thursday, doubling down on his sudden rejection of the cryptocurrency as a means of payment over environmental concerns.',

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'url': 'https://thenextweb.com/news/australian-bitcoin-creator-files-uk-lawsuit-to-retrieve-5-6b-cryptocurrency-fortune',

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analytics company, said on Tuesday it had started accepting bitcoin as payment
from customers and was also considering investing in cryptocurrencies.',
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                    'description': 'Vitalik Buterin, the creator of Ethereum, on Wednesday donated Ethereum and "meme coins" worth $1.5 billion in one of the largest-ever individual philanthropy efforts. Buterin transferred 500 ETH and over 50 trillion SHIB (Shiba Inu), a meme coin, worth around...',
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{'source': {'id': 'cnn', 'name': 'CNN'},

'author': 'Paul R. La Monica, CNN Business',

'title': 'Move over, Bitcoin. Ethereum is at an all-time high',

'description': 'Bitcoin prices continued their rebound Saturday, rising about 6% to nearly \$58,000. But the world's largest cryptocurrency has been overshadowed lately by its younger sibling, Ethereum.',

'url': 'https://www.cnn.com/2021/05/01/investing/ethereum-bitcoin-record-high/index.html',

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project boasts 20,000 procedurally generated 3D characters that are tradeable on the Ethereum blockchain. There have been ...',

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{'source': {'id': 'techcrunch', 'name': 'TechCrunch'},

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Wednesday that customers can now purchase bitcoin with cash and withdraw bitcoin
holdings converted to cash from its thousands of brick-and-mortar locations
nationwide. The move is just the latest sig...',
    'url': 'https://markets.businessinsider.com/currencies/news/moneygram-coinme-
atm-bitcoin-buy-sell-crypto-with-cash-2021-5-1030422546',
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    'publishedAt': '2021-05-12T17:33:14Z',

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'content': 'REUTERS/Heinz-Peter Bader\r\nMoneyGram International announced on Wednesday that customers can now purchase bitcoin with cash and withdraw bitcoin holdings converted to cash from its thousands of brick... [+1577 chars]'},

{'source': {'id': None, 'name': 'Kotaku'},

'author': 'Luke Plunkett',

'title': 'Nvidia Is Trying To Stop Crypto Miners Buying RTX 3000 Series Cards',

'description': 'Earlier this year, Nvidia announced that their GeForce RTX 3060 graphics cards would ship with a "reduced Ethereum hash rate", making them a lot less useful for crypto miners. They're now extending that move to the RTX 3080, RTX 3070 and RTX 3060 Ti as well.R...',

'url': 'https://kotaku.com/nvidia-is-trying-to-stop-crypto-miners-buying-rtx-3000-1846922324',

'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/kqhp0hgonpbvanvgk3f.jpg',

'publishedAt': '2021-05-19T00:00:00Z',

'content': 'Earlier this year, Nvidia announced that their GeForce RTX 3060 graphics cards would ship with a reduced Ethereum hash rate, making them a lot less useful for crypto miners. Theyre now extending that... [+1073 chars]'},

{'source': {'id': None, 'name': 'Kitco NEWS'},

'author': 'http://www.facebook.com/kitconews',

'title': 'Crypto price collapse: Bitcoin & ethereum see biggest one-day losses since March of last year - Kitco NEWS',

'description': 'Crypto price collapse: Bitcoin & ethereum see biggest one-day losses since March of last year\&a0\&a0Kitco NEWS\r\nBitcoin falls below US\$40,000 after China's cryptocurrency warning\&a0\&a0Global News\r\nBitcoin Plunge Exceeds 25%, Wipes \$500 Billio...',

'url': 'https://www.kitco.com/news/2021-05-19/Crypto-price-collapse-Bitcoin-ethereum-see-biggest-one-day-losses-since-March-of-last-year.html',

'urlToImage':

'https://www.kitco.com/news/2021-05-19/images/shutterstock_1771817042-min.jpg',

'publishedAt': '2021-05-19T14:41:00Z',

'content': '(Kitco News) It is red across the board in the crypto space as digital assets see a massive selloff, with bitcoin tumbling to near \$30,000 for the first time since late January.\r\nBitcoin touched a lo... [+2219 chars]'},

{'source': {'id': 'reuters', 'name': 'Reuters'},

'author': 'Reuters',

'title': 'Bitcoin hits three-month low as Musk drives investors to exit - Reuters',

'description': 'Bitcoin dropped to a three-month low on Monday as investors sold cryptocurrencies in the wake of Tesla boss Elon Musk's hinting over the weekend that the carmaker is considering or may have already sold some of its bitcoin holdings.',

'url': 'https://www.reuters.com/business/finance/bitcoin-hits-three-month-low-musk-drives-investors-exit-2021-05-17/',

'urlToImage': None,

'publishedAt': '2021-05-17T04:34:00Z',

'content': "Bitcoin dropped to a three-month low on Monday as investors sold cryptocurrencies in the wake of Tesla boss Elon Musk's hinting over the weekend that the carmaker is considering or may have already ... [+2053 chars]"},

{'source': {'id': 'reuters', 'name': 'Reuters'},

'author': 'Reuters Staff',

'title': 'Cryptos turn choppy as bounce momentum ebbs - Reuters',

'description': "Cryptocurrencies slipped on Thursday, though without falling through recent lows, as traders clung to hopes that a nascent recovery from last week's plunge can regain its momentum.",

'url': 'https://www.reuters.com/article/crypto-currency-idUSL3N2NE1A6',

'urlToImage': 'https://s1.reutersmedia.net/resources_v2/images/rcom-default.png?w=800',

'publishedAt': '2021-05-27T04:33:00Z',

'content': 'By Reuters Staff\r\nSINGAPORE, May 27 (Reuters) - Cryptocurrencies slipped on Thursday, though without falling through recent lows, as traders clung to hopes that a nascent recovery from last weeks plu... [+512 chars]'},

{'source': {'id': 'reuters', 'name': 'Reuters'},

'author': 'Reuters',

'title': 'Bitcoin falls 5.2% to \$33849, Ether down 6.3% - Reuters',

'description': 'Bitcoin dipped 5.16% to \$33,849.47 at 18:00 GMT on Saturday, losing \$1,842.99 from its previous close.',

'url': 'https://www.reuters.com/technology/bitcoin-falls-52-33849-ether-down-63-2021-05-29/',

'urlToImage': 'https://www.reuters.com/resizer/zSe7a6153uVQSSupYJzYDBJSZ6U=/1200x628/smart/filters:quality(80)/cloudfront-us-east-2.images.arcpublishing.com/reuters/F4WT54LZ5VMEVFCEMHXT4NB66I.jpg',

'publishedAt': '2021-05-29T18:21:00Z',

'content': 'A representation of virtual currency Bitcoin is seen in front of a stock graph in this illustration taken January 8, 2021. REUTERS/Dado RuvicBitcoin dipped 5.16% to \$33,849.47 at 18:00 GMT on Saturda... [+586 chars]'},

{'source': {'id': 'business-insider', 'name': 'Business Insider'},

'author': 'Theron Mohamed',

'title': 'Billionaire investor Stanley Druckenmiller blasted the Fed, touted bitcoin over ethereum, and issued a dire warning about the dollar in a recent interview. Here are the 10 best quotes.',

'description': 'Summary List Placement\nStanley Druckenmiller blasted the Federal Reserve for boosting asset prices and the national debt.\nHe warned the dollar could cease to be the global reserve currency within 15 years.\nThe investor is more bullis...',

'url': 'https://markets.businessinsider.com/currencies/news/stanley-druckenmiller-blasted-fed-touted-bitcoin-ethereum-crypto-dollar-warning-2021-5-1030419926',

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'content': 'Stanley Druckenmiller.\r\nREUTERS/Brendan

McDermid\r\nStanley Druckenmiller blasted the Federal Reserve for boosting asset prices and the national debt.He warned the dollar could cease t... [+3369 chars]'},

{'source': {'id': 'business-insider', 'name': 'Business Insider'},
 'author': 'Harry Robertson',
 'title': 'Elon Musk's Tesla has stopped taking bitcoin, but is weighing greener options. Here are 5 tokens it might consider',
 'description': 'Summary List PlacementElon Musk shocked the crypto world on Wednesday night when he announced that Tesla would no longer be accepting bitcoin as payment, because its "insane" energy use threatens the environment.\nBitcoin mining uses more energy each year than...',
 'url': 'https://markets.businessinsider.com/news/stocks/elon-musk-tesla-bitcoin-alternatives-ether-cardano-xrp-chia-dogecoin-2021-5-1030426825',
 'urlToImage': 'https://images2.markets.businessinsider.com/609d4322070a690018af50e5?format=jpeg',
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{'source': {'id': 'reuters', 'name': 'Reuters'},
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 'title': 'Bitcoin hits three-month low as Musk drives investors to exit - Reuters',
 'description': 'Bitcoin dropped to a three-month low on Monday as investors sold cryptocurrencies in the wake of Tesla boss Elon Musk's hinting over the weekend that the carmarker is considering or may have already sold some of its bitcoin holdings.',
 'url': 'https://www.reuters.com/article/us-crypto-currency-idUSKCN2CY0AC',
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 'content': 'By Reuters Staff\r\nSINGAPORE (Reuters) - Bitcoin dropped to a three-month low on Monday as investors sold cryptocurrencies in the wake of Tesla boss Elon Musks hinting over the weekend that the carmar... [+2377 chars]'},

{'source': {'id': 'reuters', 'name': 'Reuters'},
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 'url': 'https://www.reuters.com/technology/cryptos-turn-choppy-bounce-momentum-ebbs-2021-05-27/',
 'urlToImage': 'https://www.reuters.com/resizer/GsmJSuDVEnRgTKnrQnrknWDzr4=/1200x628/smart/filters:quality(80)/cloudfront-us-east-2.images.arcpublishing.com/reuters/5WJZIPJAFJPWLOAOJSAJ2FPJ4A.jpg',
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'content': 'Representations of the virtual currency Bitcoin stand on a motherboard in this picture illustration taken May 20, 2021. REUTERS/Dado Ruvic/IllustrationCryptocurrencies slipped on Thursday, though wit... [+671 chars]'},

{'source': {'id': 'abc-news', 'name': 'ABC News'},
 'author': 'Catherine Thorbecke',
 'title': "Bitcoin plunges amid China clampdown fears, fallout from Tesla's U-turn",
 'description': "Bitcoin, Ethereum and other major cryptocurrencies plummeted on Wednesday in a sell-off linked to a new crackdown in China and fallout from Tesla's reversal.",
 'url': 'https://abcnews.go.com/Business/bitcoin-plunges-amid-china-clampdown-fears-fallout-teslas/story?id=77781947',
 'urlToImage': 'https://s.abcnews.com/images/Business/bitcoin-1-gty-rc-210513_1620916337167_hpMain_16x9_992.jpg',
 'publishedAt': '2021-05-19T18:23:12Z',
 'content': "Bitcoin, Ethereum and other major cryptocurrencies plummeted on Wednesday in a selloff linked to fears of a crackdown from regulators in China and ongoing fallout from Tesla's surprise reversal on di... [+2433 chars]"},
 {'source': {'id': None, 'name': 'Entrepreneur'},
 'author': 'Euni Han',
 'title': "Mark Cuban Invests in Polygon, Says He's Optimistic on Cryptocurrencies, Per Reports",
 'description': 'Cuban says cryptocurrencies are starting to show real demand.',
 'url': 'https://www.entrepreneur.com/article/372952',
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 'publishedAt': '2021-05-26T16:54:58Z',
 'content': 'Opinions expressed by Entrepreneur contributors are their own.\r\n\r\nPolygon, the Ethereum-based scaling solution, is now listed as a holding on Mark Cuban Companies' website.\r\n\r\nThe billionaire told\xa0CoinTe... [+1698 chars]'},
 {'source': {'id': None, 'name': 'Global News'},
 'author': 'Staff',
 'title': 'Bitcoin falls below \$40,000 after China's cryptocurrency warning - Global News',
 'description': 'Bitcoin falls below \$40,000 after China's cryptocurrency warning\xa0\xa0Global News\r\n\r\nHow much lower could Bitcoin go?\xa0\xa0Aljazeera.com\r\n\r\nElon Musk Gets Schooled By Ethereum Co-Founder On How To Improve Dogecoin\xa0\xa0Benzinga\r\n\r\nOPINION: An...',
 'url': 'https://globalnews.ca/news/7875272/bitcoin-falls-china-ban/',
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 'publishedAt': '2021-05-19T10:48:54Z',
 'content': 'Bitcoin tumbled below the \$40,000 mark on Wednesday to a three-and-a-half-month low and dragged down the prices of other digital coins after

```
China imposed fresh curbs on transactions involving crypto... [+3229 chars]'},
{'source': {'id': 'business-insider', 'name': 'Business Insider'},
 'author': 'Vicky Ge Huang',
 'title': "Fundstrat's head of digital assets research walks us through his
$100,000 and $10,500 year-end price targets for bitcoin and ether - and shares
the 8 tokens he's bullish on",
 'description': 'Summary List PlacementBack in 2015, David Grider was working
at an investment bank when he first heard billionaire investor Chamath
Palihapitiya talking about bitcoin and cryptocurrencies.\xa0\n"I respected him
so I gave it a look and got in there," Grider, who i...',
 'url': 'https://www.businessinsider.com/bitcoin-ether-prices-will-
reach-100k-10k-fundstrat-digital-assets-2021-5',
 'urlToImage':
'https://i.insider.com/60957c8ff22c6b00185dcfeb?width=1200&format=jpeg',
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he first heard billionaire investor Chamath Palihapitiya talking about bitcoin
and cryptocurrencies.\xa0\r\n"I respected him so I gave it ... [+5659 chars]'},
{'source': {'id': 'business-insider', 'name': 'Business Insider'},
 'author': 'Theron Mohamed',
 'title': 'Mark Cuban is betting $1 million that Amazon and Netflix will best
the S&P 500 over 10 years - and another $1 million on crypto to do the same',
 'description': "Summary List Placement<ul>\n<li>Mark Cuban is betting $1
million that Netflix and Amazon will outperform the S&P 500.</li>\n<li>He's also
wagering $1 million that bitcoin or ethereum will beat the index over 10
years.</li>\n<li>Warren Buffett bet on the benchmar...",
 'url': 'https://markets.businessinsider.com/currencies/news/mark-cuban-bets-
million-amazon-netflix-crypto-beat-sp-500-2021-4-1030371364',
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 'content': "Mark Cuban.\r\nBrian Snyder/Reuters\r\n<ul><li>Mark Cuban is
betting $1 million that Netflix and Amazon will outperform the S&P
500.</li><li>He's also wagering $1 million that bitcoin or ethereum wil... [+1847
chars]}"]}]}
```

```
[15]: # Create the Bitcoin sentiment scores DataFrame
btc_df = pd.DataFrame.from_dict(btc_headlines["articles"])

btc_df.head()
```

```
[15]: source \
0      {'id': 'engadget', 'name': 'Engadget'}
1      {'id': 'techcrunch', 'name': 'TechCrunch'}
2      {'id': 'the-verge', 'name': 'The Verge'}
3      {'id': 'the-verge', 'name': 'The Verge'}
4      {'id': 'mashable', 'name': 'Mashable'}
```

```

                                author \
0  https://www.engadget.com/about/editors/richard...
1                                Alex Wilhelm
2                                Sean O'Kane
3                                Chaim Gartenberg
4                                Tim Marcin

                                title \
0  Tesla 'suspends' Bitcoin car purchases citing ...
1  What Square's smashing earnings tell us about ...
2  Tesla stops taking Bitcoin for vehicle purchas...
3  Coinbase is down amid massive cryptocurrency p...
4  Mark Zuckerberg has a goat named Bitcoin and w...

                                description \
0      You can't buy a Tesla with Bitcoin anymore..
1  Today we're talking Square earnings and its bi...
2  Tesla has stopped accepting bitcoin as payment...
3  Cryptocurrency exchange Coinbase is experienci...
4  Mark Zuckerberg posted a picture of his two, f...

                                url \
0  https://www.engadget.com/elon-musk-bitcoin-221...
1  http://techcrunch.com/2021/05/07/what-squares-...
2  https://www.theverge.com/2021/5/12/22433153/te...
3  https://www.theverge.com/2021/5/19/22443701/co...
4  https://mashable.com/article/mark-zuckerberg-g...

                                urlToImage      publishedAt \
0  https://s.yimg.com/os/creatr-uploaded-images/2... 2021-05-12T22:17:08Z
1  https://techcrunch.com/wp-content/uploads/2020... 2021-05-07T18:17:36Z
2  https://cdn.vox-cdn.com/thumbor/zRfsIkD2Sr-2KD... 2021-05-12T22:21:15Z
3  https://cdn.vox-cdn.com/thumbor/9inLHdPYtMB1py... 2021-05-19T13:47:36Z
4  https://mondrian.mashable.com/2021%252F05%252F... 2021-05-11T14:52:02Z

                                content
0  Just weeks after Tesla started accepting Bitco...
1  Shares of Square are up more than 6% today aft...
2  Image: Tesla\r\n\n \n\n Tesla has stopped acce...
3  Illustration by Alex Castro / The Verge\r\n\n \n ...
4  Mark Zuckerberg posted a picture of his two, f...

```

```

[16]: # Create the Ethereum sentiment scores DataFrame
eth_df = pd.DataFrame.from_dict(eth_headlines["articles"])

eth_df.head()

```

```

[16]:                                     source \
0 {'id': 'techcrunch', 'name': 'TechCrunch'}
1 {'id': 'techcrunch', 'name': 'TechCrunch'}
2 {'id': 'techcrunch', 'name': 'TechCrunch'}
3     {'id': 'cnn', 'name': 'CNN'}
4 {'id': 'techcrunch', 'name': 'TechCrunch'}

                                     author \
0         Manish Singh
1         David Riggs
2         Connie Loizos
3 Paul R. La Monica, CNN Business
4         Lucas Matney

                                     title \
0 Vitalik Buterin donates $1 billion worth of 'm...
1 Radical Ethereum entrepreneurs are redefining ...
2 Solana, a blockchain platform followed by top ...
3 Move over, Bitcoin. Ethereum is at an all-time...
4 CryptoPunks maker Larva Labs launches their ne...

                                     description \
0 Vitalik Buterin, the creator of Ethereum, on W...
1 Their investors call them disruptive innovator...
2 Solana isn't known yet outside of the crypto c...
3 Bitcoin prices continued their rebound Saturda...
4 The creators behind CryptoPunks, one of the mo...

                                     url \
0 http://techcrunch.com/2021/05/12/vitalik-buter...
1 http://techcrunch.com/2021/05/04/radical-ether...
2 http://techcrunch.com/2021/05/14/solana-a-bloc...
3 https://www.cnn.com/2021/05/01/investing/ether...
4 http://techcrunch.com/2021/05/03/cryptopunks-m...

                                     urlToImage         publishedAt \
0 https://techcrunch.com/wp-content/uploads/2017... 2021-05-12T22:46:10Z
1 https://techcrunch.com/wp-content/uploads/2021... 2021-05-04T14:30:39Z
2 https://techcrunch.com/wp-content/uploads/2021... 2021-05-15T01:49:36Z
3 https://cdn.cnn.com/cnnnext/dam/assets/2105010... 2021-05-01T17:24:45Z
4 https://techcrunch.com/wp-content/uploads/2021... 2021-05-03T18:08:48Z

                                     content
0 Vitalik Buterin, the creator of Ethereum, on W...
1 Their investors call them disruptive innovator...
2 Solana isn't known yet outside of the crypto c...
3 New York (CNN Business)Bitcoin prices continue...

```

4 The creators behind CryptoPunks, one of the mo...

```
[17]: # Describe the Bitcoin Sentiment
btc_analyzer = SentimentIntensityAnalyzer()

btc_sentiments = []

for article in btc_headlines["articles"]:
    try:
        text = article["content"]
        date = article["publishedAt"][:10]
        sentiment = analyzer.polarity_scores(text)
        compound = sentiment["compound"]
        pos = sentiment["pos"]
        neu = sentiment["neu"]
        neg = sentiment["neg"]

        btc_sentiments.append({
            "text": text,
            "date": date,
            "compound": compound,
            "positive": pos,
            "negative": neg,
            "neutral": neu
        })

    except AttributeError:
        pass

# Create DataFrame
btc_df = pd.DataFrame(btc_sentiments)

# Reorder DataFrame columns
cols = ["date", "text", "compound", "positive", "negative", "neutral"]
btc_df = btc_df[cols]

btc_df.head()
```

```
[17]:
```

	date	text	compound	\
0	2021-05-12	Just weeks after Tesla started accepting Bitco...	0.3818	
1	2021-05-07	Shares of Square are up more than 6% today aft...	0.2960	
2	2021-05-12	Image: Tesla\r\n\n \n\n Tesla has stopped acce...	0.4939	
3	2021-05-19	Illustration by Alex Castro / The Verge\r\n\n \n ...	0.0000	
4	2021-05-11	Mark Zuckerberg posted a picture of his two, f...	0.8455	

positive negative neutral

0	0.071	0.00	0.929
1	0.058	0.00	0.942
2	0.134	0.05	0.816
3	0.000	0.00	1.000
4	0.217	0.00	0.783

```
[20]: print(f"Mean positive Score: {btc_df['positive'].mean()}")
```

Mean positive Score: 0.04883

```
[22]: # Describe the Ethereum Sentiment
# Describe the Bitcoin Sentiment
eth_analyzer = SentimentIntensityAnalyzer()

eth_sentiments = []

for article in eth_headlines["articles"]:
    try:
        text = article["content"]
        date = article["publishedAt"][:10]
        sentiment = analyzer.polarity_scores(text)
        compound = sentiment["compound"]
        pos = sentiment["pos"]
        neu = sentiment["neu"]
        neg = sentiment["neg"]

        eth_sentiments.append({
            "text": text,
            "date": date,
            "compound": compound,
            "positive": pos,
            "negative": neg,
            "neutral": neu
        })

    except AttributeError:
        pass

# Create DataFrame
eth_df = pd.DataFrame(eth_sentiments)

# Reorder DataFrame columns
cols = ["date", "text", "compound", "positive", "negative", "neutral"]
eth_df = eth_df[cols]

eth_df.head()
```



```
[22]:
```

	date	text	compound	\
0	2021-05-12	Vitalik Buterin, the creator of Ethereum, on W...	0.2263	
1	2021-05-04	Their investors call them disruptive innovator...	-0.2144	
2	2021-05-15	Solana isn't known yet outside of the crypto c...	0.5499	
3	2021-05-01	New York (CNN Business)Bitcoin prices continue...	0.0000	
4	2021-05-03	The creators behind CryptoPunks, one of the mo...	0.4754	

	positive	negative	neutral
0	0.060	0.000	0.940
1	0.054	0.111	0.835
2	0.106	0.000	0.894
3	0.000	0.000	1.000
4	0.091	0.000	0.909

```
[27]: print(f"BTC Mean positive Score: {btc_df['positive'].mean()}")
print(f"ETH Mean positive Score: {eth_df['positive'].mean()}")

print(f"BTC Highest Coumpund Score: {btc_df['compound'].max()}")
print(f"ETH Highest Compund Score: {eth_df['compound'].max()}")

print(f"BTC Mean positive Score: {btc_df['positive'].max()}")
print(f"ETH Mean positive Score: {eth_df['positive'].max()}")
```

```
BTC Mean positive Score: 0.04883
ETH Mean positive Score: 0.053999999999999998
BTC Highest Coumpund Score: 0.8455
ETH Highest Compund Score: 0.8225
BTC Mean positive Score: 0.275
ETH Mean positive Score: 0.256
```

1.1.1 Questions:

Q: Which coin had the highest mean positive score?

A: ETH with a score of 0.05399

Q: Which coin had the highest compound score?

A: BTC with a score of 0.8455

Q. Which coin had the highest positive score?

A: BTC with a score of 0.275

1.2 ## 2. Natural Language Processing

1.2.1 Tokenizer

In this section, you will use NLTK and Python to tokenize the text for each coin. Be sure to: 1. Lowercase each word. 2. Remove Punctuation. 3. Remove Stopwords.

```
[48]: from nltk.tokenize import word_tokenize, sent_tokenize
      from nltk.corpus import stopwords
      from nltk.stem import WordNetLemmatizer, PorterStemmer
      from string import punctuation
      import re
```

```
[49]: # Instantiate the lemmatizer
      lemmatizer = WordNetLemmatizer()

      # Create a list of stopwords
      sw = set(stopwords.words('english'))

      # Expand the default stopwords list if necessary
      # YOUR CODE HERE!
```

```
[110]: # Complete the tokenizer function
      def tokenizer(text):
          """Tokenizes text."""

          # Remove the punctuation from text
          regex = re.compile("[^a-zA-Z ]")
          re_clean = regex.sub('', text)

          # Create a tokenized list of the words
          words = word_tokenize(re_clean)

          # Lemmatize words into root words
          lem = [lemmatizer.lemmatize(word) for word in words]

          # Convert the words to lowercase & # Remove the stop words
          output = [word.lower() for word in lem if word.lower() not in sw]

          return output

      def tokenizer2(text):
          """Tokenizes text."""

          # Remove the punctuation from text
          regex = re.compile("[^a-zA-Z ]")
```

```

re_clean = regex.sub('', text)

# Create a tokenized list of the words
words = word_tokenize(re_clean)

# Lemmatize words into root words
lem = [lemmatizer.lemmatize(word) for word in words]

# Convert the words to lowercase & # Remove the stop words
output = [word.lower() for word in lem if word.lower() not in sw]

return ' '.join(output)

```

```

[71]: # Create a new tokens column for Bitcoin

btc_df["tokens"] = ""

for row in range(len(btc_df["text"])):
    input_words = tokenizer(btc_df.iloc[row]["text"])
    btc_df.at[row, 'tokens'] = input_words

btc_df

```

```

[71]:
      date      text  compound \
0  2021-05-12  Just weeks after Tesla started accepting Bitco...  0.3818
1  2021-05-07  Shares of Square are up more than 6% today aft...  0.2960
2  2021-05-12  Image: Tesla\r\n\n \n\n Tesla has stopped acce...  0.4939
3  2021-05-19  Illustration by Alex Castro / The Verge\r\n\n \n...  0.0000
4  2021-05-11  Mark Zuckerberg posted a picture of his two, f...  0.8455
..      ...
95 2021-05-19  Institutional investors are switching out of b...  0.0000
96 2021-05-12  Cryptocurrency ether hit a record high on Wedn...  0.4588
97 2021-05-19  (Kitco News) It is red across the board in the...  0.1779
98 2021-05-11  By Reuters Staff\r\n(Adds details on bitcoin, ...  0.3818
99 2021-05-06  Jack Dorsey, CEO of Square and CEO of Twitter,...  0.0000

```

```

      positive  negative  neutral \
0      0.071      0.00      0.929
1      0.058      0.00      0.942
2      0.134      0.05      0.816
3      0.000      0.00      1.000
4      0.217      0.00      0.783
..      ...
95      0.000      0.00      1.000
96      0.097      0.00      0.903
97      0.046      0.00      0.954

```

98	0.082	0.00	0.918
99	0.000	0.00	1.000

		tokens
0	[week, tesla, started, accepting, bitcoin, cur...	
1	[shares, square, today, american, fintech, com...	
2	[image, tesla, tesla, ha, stopped, accepting, ...	
3	[illustration, alex, castro, verge, cryptocurr...	
4	[mark, zuckerberg, posted, picture, two, frank...	
..	...	
95	[institutional, investor, switching, bitcoin, ...	
96	[cryptocurrency, ether, hit, record, high, wed...	
97	[kitco, news, red, across, board, crypto, spac...	
98	[reuters, staffadds, detail, bitcoin, update, ...	
99	[jack, dorsey, ceo, square, ceo, twitter, spea...	

[100 rows x 7 columns]

```
[72]: # Create a new tokens column for Ethereum
eth_df["tokens"] = ""

for row in range(len(eth_df["text"])):
    input_words = tokenizer(eth_df.iloc[row]["text"])
    eth_df.at[row, 'tokens'] = input_words

eth_df
```

	date		text	compound	\
0	2021-05-12	Vitalik Buterin, the creator of Ethereum, on W...		0.2263	
1	2021-05-04	Their investors call them disruptive innovator...		-0.2144	
2	2021-05-15	Solana isn't known yet outside of the crypto c...		0.5499	
3	2021-05-01	New York (CNN Business)Bitcoin prices continue...		0.0000	
4	2021-05-03	The creators behind CryptoPunks, one of the mo...		0.4754	
..	
95	2021-05-19	Bitcoin, Ethereum and other major cryptocurren...		-0.1779	
96	2021-05-26	Opinions expressed by Entrepreneur contributor...		0.3182	
97	2021-05-19	Bitcoin tumbled below the \$40,000 mark on Wedn...		-0.0772	
98	2021-05-08	Back in 2015, David Grider was working at an i...		0.4767	
99	2021-04-30	Mark Cuban.\r\nBrian Snyder/Reuters\r\n<li...		0.1779	

	positive	negative	neutral	\
0	0.060	0.000	0.940	
1	0.054	0.111	0.835	
2	0.106	0.000	0.894	
3	0.000	0.000	1.000	
4	0.091	0.000	0.909	
..	

95	0.062	0.083	0.855
96	0.076	0.000	0.924
97	0.068	0.136	0.796
98	0.091	0.000	0.909
99	0.055	0.000	0.945

```

tokens
0  [vitalik, buterin, creator, ethereum, wednesda...
1  [investor, call, disruptive, innovator, detrac...
2  [solana, isnt, known, yet, outside, crypto, co...
3  [new, york, cnn, businessbitcoin, price, conti...
4  [creator, behind, cryptopunks, one, popular, n...
..
95 [bitcoin, ethereum, major, cryptocurrencies, p...
96 [opinions, expressed, entrepreneur, contributo...
97 [bitcoin, tumbled, mark, wednesday, threeandah...
98 [back, david, grider, wa, working, investment,...
99 [mark, cubanbrian, snyderreutersullimark, cuba...

[100 rows x 7 columns]
```

1.2.2 NGrams and Frequency Analysis

In this section you will look at the ngrams and word frequency for each coin.

1. Use NLTK to produce the n-grams for $N = 2$.
2. List the top 10 words for each coin.

```
[73]: from collections import Counter
      from nltk import ngrams
```

```
[101]: # Generate the Bitcoin N-grams where N=2
      btc_words = []

      for row in range(len(btc_df)):
          text = btc_df.iloc[row]["text"].split(" ")
          for word in text:
              btc_words.append(word)

      #print(btc_words)
      btc_bigrams = ngrams(btc_words, 2)
      btc_bigrams
```

```
[101]: <zip at 0x7fc070af9a00>
```

```
[103]: # Generate the Ethereum N-grams where N=2
eth_words = []

for row in range(len(eth_df)):
    text = eth_df.iloc[row]["text"].split(" ")
    for word in text:
        eth_words.append(word)

#print(btc_words)
eth_bigrams = ngrams(eth_words, 2)
eth_bigrams
```

```
[103]: <zip at 0x7fc070b48a40>
```

```
[84]: # Function token_count generates the top 10 words for a given coin
def token_count(tokens, N=3):
    """Returns the top N tokens from the frequency count"""
    return Counter(tokens).most_common(N)
```

```
[102]: # Use token_count to get the top 10 words for Bitcoin
token_count(btc_bigrams,10)
```

```
[102]: [('Elon', 'Musk'), 25),
        (('in', 'the'), 16),
        (('in', 'a'), 13),
        (('chars]', 'By'), 12),
        (('Reuters)', '-'), 12),
        (('to', 'a'), 11),
        (('By', 'Reuters'), 11),
        (('seen', 'in'), 10),
        (('in', 'this'), 10),
        (('of', 'the'), 9)]
```

```
[104]: # Use token_count to get the top 10 words for Ethereum
token_count(eth_bigrams,10)
```

```
[104]: [('of', 'the'), 17),
        (('of', 'a'), 14),
        (('in', 'the'), 14),
        (('in', 'this'), 13),
        (('virtual', 'currency'), 12),
        (('illustration', 'taken'), 12),
        (('of', 'virtual'), 11),
        (('this', 'illustration'), 11),
        (('representation', 'of'), 10),
        (('seen', 'in'), 10)]
```

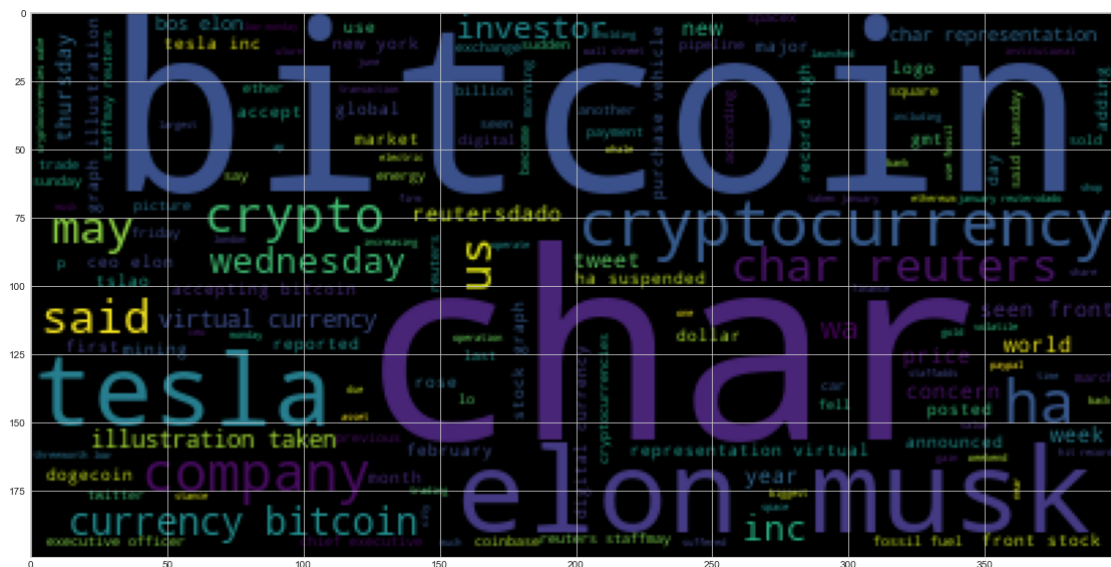
In this section, you will generate word clouds for each coin to summarize the news for each coin

```
from wordcloud import WordCloud
import matplotlib.pyplot as plt
plt.style.use('seaborn-whitegrid')
import matplotlib as mpl
mpl.rcParams['figure.figsize'] = [20.0, 10.0]

def process_text(doc):
    sw = set(stopwords.words('english'))
    regex = re.compile("[^a-zA-Z ]")
    re_clean = regex.sub('', doc)
    words = word_tokenize(re_clean)
    lem = [lemmatizer.lemmatize(word) for word in words]
    output = [word.lower() for word in lem if word.lower() not in sw]
    return ' '.join(output)

big_string = ' '.join(btc_words)
input_words = process_text(big_string)

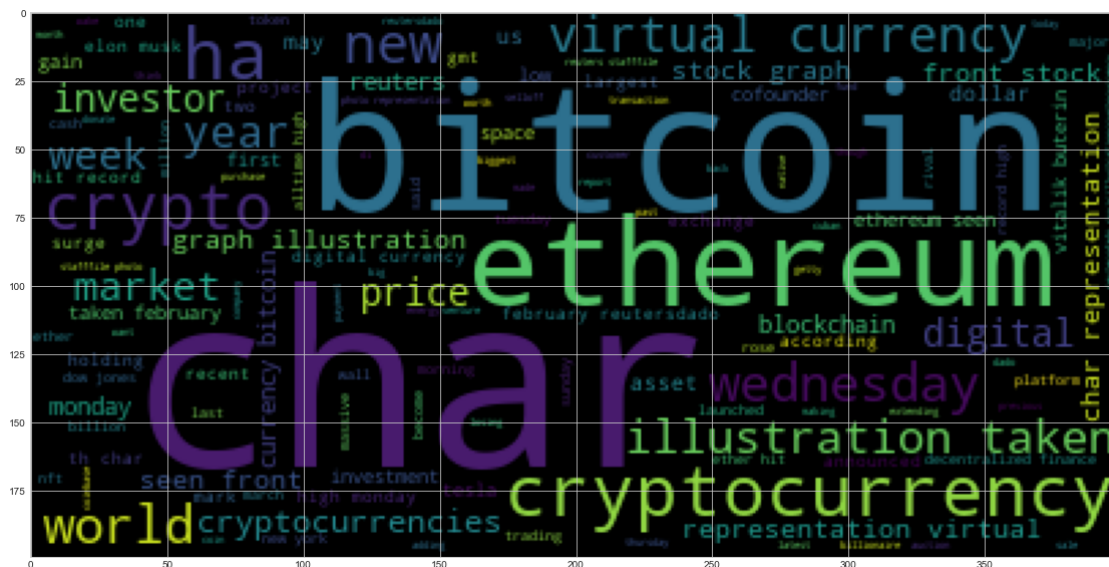
# Generate the Bitcoin word cloud
wc = WordCloud().generate(input_words)
plt.imshow(wc)
```



```
[116]: # Generate the Ethereum word cloud
big_string = ' '.join(eth_words)
input_words = process_text(big_string)
```

```
[117]: wc = WordCloud().generate(input_words)
plt.imshow(wc)
```

```
[117]: <matplotlib.image.AxesImage at 0x7fc070cbd4c0>
```



1.3 3. Named Entity Recognition

In this section, you will build a named entity recognition model for both Bitcoin and Ethereum, then visualize the tags using SpaCy.

```
[123]: import spacy
       from spacy import displacy
```

```
[124]: # Load the spaCy model
nlp = spacy.load('en_core_web_sm')
```


1.3.1 Bitcoin NER

```
[127]: # Concatenate all of the Bitcoin text together
btc_string = ""

for row in range(len(btc_df)):
    btc_string += btc_df.iloc[row]["text"]
```

```
[128]: # Run the NER processor on all of the text
btc_doc = nlp(btc_string)
# Add a title to the document
```

```
[129]: # Render the visualization
displacy.render(btc_doc, style='ent')
```

<IPython.core.display.HTML object>

```
[131]: # List all Entities
print([ent.text for ent in btc_doc.ents])
```

```
['Just weeks', 'Tesla', 'Bitcoin', 'Elon Musk', 'Square', 'more than 6%',
'today', 'American', '$5.06 billion', '2021', '3.36', 'Tesla', 'Elon Musk',
'Alex Castro', 'The Verge\r\n\r\n \n\n Cryptocurrency', 'Coinbase', 'this
morning', 'Coinbase', 'Bin', 'Zuckerberg', 'two', 'Max', 'Bitcoin', '+1482
chars]Last week', 'Musk', 'Dogecoin', 'Elon Musk', 'March', 'Musk', 'Tesla',
'Earlier this year', 'EV', '1.5', 'Elon Musk', 'Bitcoin', 'Bitcoin', 'Ethereum',
'Altcoins', 'Tuesday night', 'Wednesday', 'morning', 'months', 'hundreds of
billions', 'Babel Finance', 'Monday', 'hours-long', 'this morning', 'May 19th',
'CNN', 'Saturday', 'about 6%', 'nearly $58,000', 'PayPals', 'Wednesday', 'Jose
Fernandez da Pontethe', 'more than 5,500 miles', 'the United States', 'Photo',
'Michele Doying', 'Verge', 'Iran', 'Last week', 'Trump', 'This week', 'Elon
Musk's', 'Musk', 'Dogecoin', 'Twitter', 'Australian', 'London High Court', '16',
'around 4 billion pounds', 'about $50,000', 'Asian', 'Thursday', 'as much as
17%', 'Elon Musk', 'Tesla Inc', 'Bitcoin', 'U.S.', 'January 8, 2021', 'Dado
Ruvic/File PhotoTesla Inc', 'Reuters', 'May 12', 'Reuters', 'Elon Musk',
'Coinbase', 'Dogecoin', 'PayPal', 'Soon', 'PayPal', 'U.S.', 'Bitcoin', 'Elon
Musk', 'Bitcoin', 'Bitcoin', 'Monday', 'February', 'Elon Musk', 'Tesla', 'the
weekend', 'Bitcoin', 'Marseille', 'France', 'February 7, 2021', 'Eric
GaillardBitcoin', '6.54%', '57,098.08', 'Friday', '3,504.11', 'U.S.', 'Bitcoin',
'U.S. Dollar', 'May 26, 2020', '6.8%', '$56,852.03', '1000', 'GMT', 'Wednesday',
'chars]WASHINGTON', 'Reuters Breakingviews', 'U.S.', 'Bitcoins', 'Millions of
dollars', 'Elon Musk', 'Bitcoins', 'a few month', 'Musk', 'Bitcoin', 'The Tesla
Inc', 'three-month', 'Monday', 'Elon Musk's', 'the weekend', 'Bitcoin',
'45,000', 'Sunday', 'Elon Musk', 'Tesla', 'Bitcoin', 'three-month', 'Monday',
'Elon Musk's', 'Reuters', 'SINGAPORE', 'Reuters', 'three-month', 'Monday', 'Elon
Musks', 'the weekend', 'Reuters', 'Bitcoin', 'March 15, 2021', 'Pipeline',
'first', 'Bitcoin', 'Bitcoin', 'Reuters', 'May 11', 'Reuters', 'Peter Thiel-
```

backed', 'U.S.', 'Palantir Technologies Inc', 'Tuesday', 'Hong Kong's', 'first', 'Hong Kong', 'February 28, 2014', 'Bobby Yip Concise', 'Musk', 'Bitcoin', 'Tesla', 'first quarter', 'Indonesia', 'first', 'today', 'hundreds', 'US', 'this year', 'CNBC', 'Wednesday', 'NYDIG', 'Fidelity Nati', 'Musk', 'About a quarter', 'Bitcoins', 'the span of a week', 'Bitcoin', 'as much as 29%', 'Wednesday', 'the China Banking Association', '3 p.m. PDT', 'Daily Crunch', 'Tom Brady', 'Twitter', '0.3%', '1.1%', 'third', 'World FX', 'TOK', '5.63 %', '49,337.72', '0800', 'GMT', 'Sunday', '2,628.83', 'Bitcoin', '77.9%', 'year', '27,734', '1800', 'GMT', 'May 19', 'Reute', 'Reuters', 'Bitcoin', 'May 20, 2021', 'Reuters', 'chars]By', 'Reuters', 'May 6', 'Reuters', 'second', 'Bitcoin', 'Thursday', '3,591.65', 'the Bitstamp Exchange', 'about 3', 'May 13', 'Reuters', 'Elon Musk', 'Tesla', 'Musk', 'Reuters', 'May 13', 'Reuters', 'Elon Musks', 'Some Tes', 'Generation Holdings Inc', 'Friday', 'New York', 'June 1', 'Medium', 'Tusk', 'Yangs', 'David J. Phillip', 'Mark Cuban', 'Wednesday', 'Elon Musk', 'Tesla', 'Sachs Group Inc', 'Bloomberg News', 'Thursday', 'Goldman', 'fifth', 'U.S.', 'Musk', 'Tesla', 'Musk', 'Wednesday', 'Reuters', 'Reuters', 'Friday', 'New York', 'June 1', 'second', 'Bitcoin', 'Thursday', '3,591.65', 'the Bitstamp Exchange', 'about 3.0%', '3,568.92', 'Bitcoin', 'Bitcoin', 'January 8, 2021', 'CME Group Inc', 'Tuesday', 'Bitcoin', 'March 15, 2021', 'Dado Ruvic', 'Elon Musk's', 'Elon Musk', 'a volatile week', 'Tesla Inc.', 'Musk\xa0', 'Elon Musk', 'Crew Dragon', 'the Kennedy Space Center', 'Cape Canave', 'Bitcoin', 'Marseille', 'France', 'February 7, 2021', 'Eric GaillardBitcoin's', 'week-long', '\$40,000 mark', 'Bitcoin', 'May 19, 2021', 'Dado Ruvic/IllustrationBitcoin', '3%', 'Friday', 'Bitcoin', 'ATM', 'Union City', 'New Jersey', 'U.S.', 'May 19, 2021', '8.9%', '34,156', '1000', 'GMT', 'Sunday', 'Entrepreneur', 'Mark Cuban', 'Bitcoin', 'Elon Musk', 'Thyagaraju Adinarayan', 'LONDON', 'Reuters', '40,000', 'Thursday', 'a day', 'Tesla', 'Elon Musk', 'Wednesday', 'European', 'Thursday', 'U.S.', 'Tesla', 'Elon Musk', 'Wednesday', 'Dow Jones Indices', 'Tuesday', 'Banksy', 'Love', 'Air', 'first', 'Dogecoin', 'April 20, 2021', 'Elon Musk', 'Wednesday', 'Tesla Inc', '13, 2019', 'Costa Mesa', 'Sean Culkin', 'the Los Angeles Chargers', 'the Hoag Performance Center', 'Costa Mesa', 'California', '200-fold', 'the past year', 'Elon Musk', 'E3', 'Los Angeles', 'California', 'U.S.', 'June 13, 2019', 'Mike Blake/File Photo/File PhotoElon Musk's', 'the morning of', 'April 17', 'two', 'Westchester', 'New York', 'overnight', '65,000', 'last month', 'the United St', 'Wood', 'CIO of ARK Investment Management', 'Elon Musk', 'Tesla', 'Ark Invest', 'File', 'Hannibal Hanschke/', 'AP', 'File', 'Sydney', 'Australia', 'Jonas Liebschner', 'five and a half month', 'Bitcoin', 'January 8, 2021', '5.16%', 'Saturda', '10%', '33,747.21', '1400', 'GMT', '10 a.m. ET', 'Sunday', '3,753.33', 'Bitcoin', '48%', 'the year', 'Reuters', 'SINGAPORE', 'May 3', 'Reuters', 'Monday', '3,000', 'Reuters', 'May 6', 'Reuters', 'quarterly', 'Thursday', 'Bitcoin', 'Elon Musk', 'Bitcoin', 'Elon Musk', 'Thursday', 'Entrepreneur', 'SNL', 'Bitcoin', 'February 9, 2021', 'Dado Ruvic/File Photo/File PhotoTesla Inc', 'Elon Musk', 'Bitcoin', 'Craig Wright', 'Australian', '\$5.6 billion', 'London', '111,000', 'Bitcoins', 'first', 'six months', 'JPMorgan', 'Tuesday', 'Wednesday', '30,000', 'first', 'late January', 'Bitcoin', 'Reuters', 'May 11', 'Reuters', 'Peter Thiel-backed', 'U.S.', 'Tuesday', 'Dorsey', 'Square', 'Twitter', 'November 19, 2015', 'Lucas JacksonPayments', 'Square Inc',

```
'quarterly']
```

1.3.2 Ethereum NER

```
[132]: # Concatenate all of the Ethereum text together
eth_string = ""

for row in range(len(eth_df)):
    eth_string += eth_df.iloc[row]["text"]
```

```
[134]: # Run the NER processor on all of the text
eth_doc = nlp(eth_string)

# Add a title to the document
# YOUR CODE HERE!
```

```
[135]: # Render the visualization
displacy.render(eth_doc, style='ent')
```

<IPython.core.display.HTML object>

```
[136]: # List all Entities
print([ent.text for ent in eth_doc.ents])
```

```
['Vitalik Buterin', 'Ethereum', 'Wednesday', 'Ethereum', '$1.5 billion',
'Buterin', '500', 'ETH', 'North Carolina', 'Josh Stein', 'Madison Campbell',
'Liesel Vaidya', 'Anatoly Yakovenko', 'chars]New York', 'CNN', 'Saturday',
'about 6%', 'nearly $58,000', 'CryptoPunks', 'one', 'NFT', 'Meebits', '20,000',
'3D', 'Ethereum', 'Altcoins', 'Tuesday night', 'Wednesday', 'morning', 'months',
'hundreds of billions', 'Reuters', 'February 19, 2021', 'SINGAPORE', 'February
19, 2021', 'Dado Ruvic/IllustrationCryptocurrency', 'Dfinity', 'July 2018',
'Swiss', 'Dominic Williams', 'StockMarketUS Stock Futures Edge Higher',
'Monday', 'U.S.', 'Monday', 'Spanish', 'AI', 'Cryptocurrencies', 'today',
'Vitalik Buterin', '27-year-old', 'February 19, 2021', 'Dado
Ruvic/IllustrationCryptocurrency', 'Dow Jones Indices', 'Reuters', 'SINGAPORE',
'May 3', 'Reuters', 'Monday', '3,000', 'last weeks', 'Europe', 'Tuesday',
'Banksy', 'Love', 'Air', 'first', 'chars]NEW YORK', 'May 7', 'Reuters', 'this
year', 'Reuters', 'SINGAPORE', 'May 3', 'Reuters', 'Monday', '3,000', 'this
year', 'this summer', '+5218', 'Reuters', 'February 19, 2021', 'SINGAPORE',
'today', 'April 14', 'Alex Castro', 'The Verge\r\n\r\n\r\n\r\n Cryptocurrency',
'Coinbase', 'this morning', 'Coinbase', 'Bin', 'Ethereum\r\n', 'Getty Images',
'AsiaPac', 'Bitcoin', 'Ethereum', 'number two', '2021', 'February 19, 2021',
'Dado Ruvic/IllustrationBitcoin', 'two', 'Bitcoin', 'March 15, 2021', 'Dado
Ruvic', 'Dow Jones Indices', 'chars]"We', 'Wednesday', 'Spanish', 'AI',
'Cryptocurrencies', '99.95%', 'Carl Beekhuizen', 'the Ethereum Foundation',
```

'Beekhuizen', 'Bitcoin', 'U.S. Dollar', 'May 26, 2020', 'Dado Ruvic/File
 PhotoBitcoin', 'last week', 'one-day', 'March last year', 'Wednesday', '\$1
 trillion', 'Ethereum', 'above \$3,000', 'Monday', 'this year', 'Monday', '\$3,000
 mark', 'Bitcoin', 'year-to-date', 'Ethereum', 'about one hundred billion
 trillion dollars', 'Reuters', 'May 4', 'Reuters', 'Global Inc', 'Tuesday',
 'Ruvic/Reuters\r\n', 'Ethereum', 'above \$3,000', 'Monday', 'Reuters', 'Bitcoin',
 'March 15, 2021', 'Reuters', 'Ethereum', 'February 19, 2021', 'Dado
 Ruvic/IllustrationCryptocurrency', '4,000', 'Ruvic/Reuters', 'as much as 5%',
 'Monday', '3,203', 'Ruvic/Reuters', 'one-day', 'two years', 'Monday', 'second',
 '4,000', 'first', 'Ethereum', '7%', 'Spanish', 'AI', 'This week', 'March 2020',
 'Last week', 'Trump', 'This week', 'Elon Musk's', 'Nakao/Getty
 Images\r\nInvestors', 'Dow Jones', 'Tuesday', 'Europe', '2016', 'Ethereum, Pol',
 'Ferdman/Getty Images', 'Mark Cuban', 'Ethereum', 'Polygon', 'Polygon',
 'tEthereum', 'NFT', 'Disaster Girl', 'NFT', 'over \$500,000', 'Foundation',
 "Disaster Girl'", 'Indonesia', 'first', 'today', 'Arriens/NurPhoto', 'Getty
 Images\r\nCryptocurrency', 'Wednesday', 'Photo', 'S3studio/', 'Getty Images',
 'May', '\$1.93 billion', 'Entrepreneur', 'Images/John Phillips', '27-year-old',
 'Ethereum', 'Vitalik Buterin', '350%', 'Di Iorio', 'Ethereum', 'Photo',
 'Decentral\r\nEthereum', 'Anthony Di Iorio', 'the kilowatt-hour', 'one', 'about
 12 cents', 'the past few days', 'Vitalik Buterin', 'Ethereum', 'two weeks',
 'Bitcoin', '13 per cent', 'second', 'Eth', 'this year', 'America', 'Millions of
 dollars', 'the morning of', 'April 17', 'two', 'Westchester', 'New York',
 'overnight', 'Bitcoin', 'Marseille', 'France', 'February 7, 2021', 'Eric
 GaillardBitcoin', '6.54%', '57,098.08', 'Friday', '3,504.11', 'Bitcoin', 'U.S.
 Dollar', 'May 26, 2020', '6.8%', '\$56,852.03', '1000', 'GMT', 'Wednesday',
 'LHR', '18', '18', 'Nvidia', 'GeForce', '3000', '5.63 %', '49,337.72', '0800',
 'GMT', 'Sunday', '2,628.83', 'Bitcoin', '77.9%', 'year', '27,734', 'nine-week',
 'Thursday', 'U.S. Treasury', 'the first quarter', '10%', '33,747.21', '1400',
 'GMT', '10 a.m. ET', 'Sunday', '3,753.33', 'Bitcoin', '48%', 'the year'',
 'Entrepreneur', 'Earlier this year', 'U.S. Treas', 'chars]NurPhoto/Getty
 Images', 'The Chicago Board Options Exchange', 'the US Securities and Exchange
 Commission', 'Monday', 'Fidelity', 'PayPals', 'Wednesday', 'Jose Fernandez da
 Pontethe', 'recent years', 'the first four months of the year', 'a bad week',
 'Elon Musk', 'Bitcoins', '12k', 'Tesla', 'Bitcoin', 'Framework Ventures',
 'Friday', '\$100 million', 'second', 'Bitcoin', 'ATM', 'Union City', 'New
 Jersey', 'U.S.', 'May 19, 2021', '8.9%', '34,156', '1000', 'GMT', 'Sunday',
 'Images/John Phillips\r\nEthereum', 'Vitalik Buterin', '90%', 'Shiba Inu',
 '10%', 'Sund', 'Vitalik Buterin', '90%', 'Shiba Inu', '10%', 'Sunday',
 'evening', 'Over 40%', 'Elon Musk', 'Bitcoin', 'Bitcoin', 'about 20%', 'a few
 hours', 'about 12%', 'CNN Business', 'Julia Horowitz', 'Finary', 'French',
 'NFT', 'Infinite Objects', 'Novogratz', 'Lucas Jackson', 'Reuters',
 'Billionaire', 'Mike Novogratz', 'between \$40,00...', 'Wednesday', 'thousands',
 'Entrepreneur', 'a manic Monday', 'half a trillion dollars', 'Bitcoin', 'a rough
 day', 'Wednesday', '10', 'Things Before the Opening Bell', 'Wednesday',
 'thousands', 'this year', 'Nvidia', 'GeForce', '3060', '30,000', 'first', 'late
 January', 'Bitcoin', 'three-month', 'Monday', 'Elon Musk's', 'the weekend',
 'Reuters', 'SINGAPORE', 'May 27', 'Reuters', 'Thursday', 'last weeks',
 'Bitcoin', 'January 8, 2021', '5.16%', 'Saturda', 'Druckenmiller', 'REUTERS',

'Brendan McDermid\r\n', '>Stanley Druckenmiller', 'the Federal Reserve', 'Musk',
'Ringo H.W. Chiu', 'Elon Musk', 'Wednesday night', 'Reuters', 'SINGAPORE',
'Reuters', 'three-month', 'Monday', 'Elon Musks', 'the weekend', 'Bitcoin', 'May
20, 2021', 'Dado Ruvic/IllustrationCryptocurrencies', 'Thursday', 'Ethereum',
'Wednesday', 'China', 'Tesla', 'Entrepreneur', 'Polygon', 'Ethereum', '\$40,000
mark', 'Wednesday', 'three', 'China', '2015', 'David Grider', 'first', 'Cuban',
'Brian Snyder', 'Reuters', 'Mark Cuban', '\$1 million', 'Netflix', 'Amazon', '\$1
million']
