

Reddit Submissions Network Analysis, Topic Modelling, and Sentiment Analysis on Collapse of Terra (LUNA) Event

Shilton Jonatan Salindeho Jul 13th 2023



- Motivation
- Problem Statement/Objectives
- Data Collection
- Methodology
 - Network Analysis
 - Sentiment Evolution
 - Topic Evolution
- Timeline Identifying key events
- Analysis/Findings
- Conclusion



Motivation and Problem Statement



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TECH

Cryptocurrency luna crashes to \$0 as UST falls further from dollar peg

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The collapse of Terra (LUNA) blockchain protocol which consists of TerraUSD and LUNA cryptocurrencies in May 2022 was considered to be one of the biggest events in the crypto space, largely due to the magnitude of its collapse as well as the impact it brought to its holders.

Problem Statement/Objectives



- (1) To identify network structure of various Reddit communities' response (both submissions and comments) to a specific event
- (2) To identify topics discussed in various Reddit communities in response to a specific event, and how the topics are shaped in the network
- (3) To understand how the network structure and submission topics evolve over the duration of the event

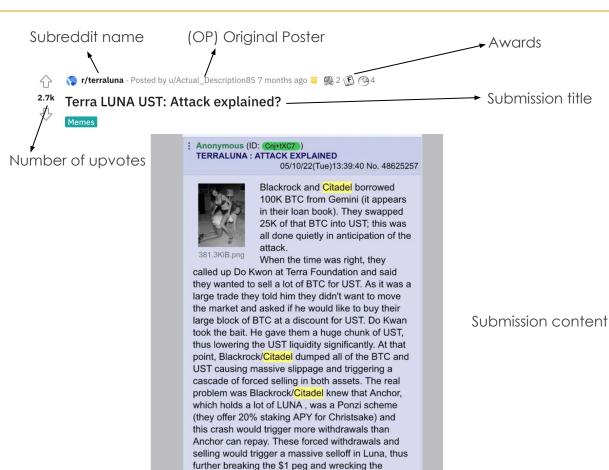


Data Collection

Example Data (Submission)



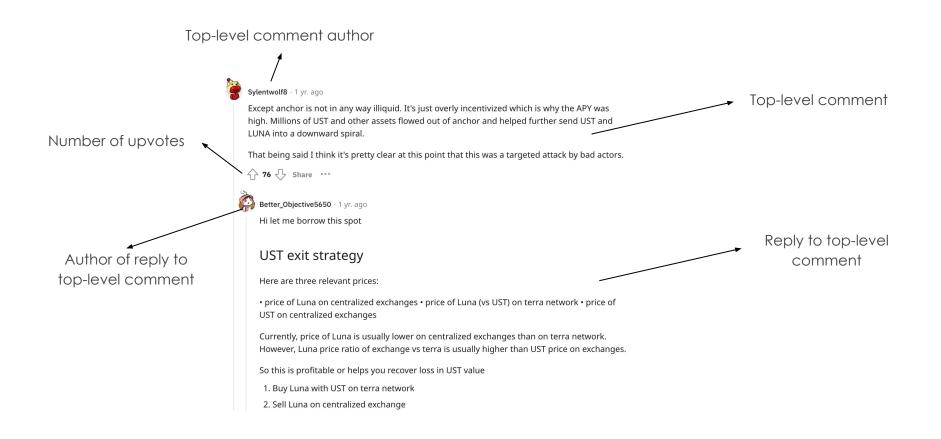
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Example Data (Comment)



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Data Collection



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Collect submissions and comments from Reddit

- Subreddits chosen:
 - r/TerraLuna (all submissions and comments)
 - r/Bitcoin (specific Terra (LUNA) related keywords only)
 - r/Cryptourrency (specific Terra (LUNA) related keywords only)
- Period: Apr 29th to Jun 1st, 2022
- Method of data collection: PushShift API Wrapper (PSAW) (<u>link</u>) and apper (PRAW) (<u>link</u>)



Number of submissions : 8,863

Number of comments : 153,446



Methodology

Methodology - Network Analysis



Network Analysis

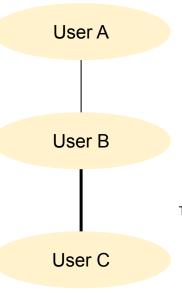
Users = nodes

Study relationships between entities in a network

Submissions and comments = edges

Count of interaction between entity-pairs = edge weights

Example



Edge (A, B): User B replied with a comment to User A's comment/submission post or vice versa

Edge (B, C): User C replied with User B's comment/submission post or vice versa

Thicker line for B and C compared to A and B means higher edge weight: interaction between B and C happens more frequently



Centrality Measures

Degree Centrality

Number of links held by each node

Closeness Centrality

Assigns each node a score based on sum of shortest paths

Various Centrality Measures

Betweenness Centrality

Number of times a node lies on the shortest path between other nodes

Eigen Centrality

Calculate extended connections of a node, identify nodes with high influence

Methodology - Network Analysis (cont.)



Centrality Measures

Degree Centrality

Number of links held by each node

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Assigns each node a score based on sum of shortest paths

Various Centrality Measures

Betweenness Centrality

Number of times a node lies on the shortest path between other nodes

Eigen Centrality

Calculate extended connections of a node, identify nodes with high influence

For Reddit?

Degree Centrality

How many other users a user have interacted with

Closeness Centrality

How "close"/"involved" a user is to topics being discussed

Betweenness Centrality

How aware a user is of what topics are being discussed in multiple circles

Eigen Centrality

How good in terms of quality a user's interactions with others are (interacting with other 'high quality' users)

Methodology - Network Analysis (cont.)





Centrality Measures

For Reddit?

Degree Centrality

Number of links held by each

Degree Centrality

We will be using eigencentrality, since it allows for connections between users to have a variable value, so that connecting to some "h gher quality" users has more benefit than connecting to others.

Betweenness Centrality

the shortest path between other nodes

Eigen Centrality

Calculate extended connections of a node, identify nodes with high influence

Betweenness Centrality

multiple circles

Eigen Centrality

How good in terms of quality a user's interactions with others are (interacting with other 'high quality' users)

Eigen Centrality

How good in terms of quality a user's interactions with others are (interacting with other 'high quality' users)

Find top users with highest Eigen Centrality (overall)

Find top users with highest Eigen Centrality (per phase)



VADER (Valence Aware Dictionary and sEntiment Reasoner)

Split sentiment analysis by phases

Analyze sentiment overall

Split sentiment analysis by dates

Split sentiment analysis by subreddits



VADER (Valence Aware Dictionary and sEntiment Reasoner)

Corpus = submissions and comments from users with highest eigencentrality values (both overall and per phase)

Sentiment analysis using VADER



Latent Dirichlet Allocation (LDA)

Corpus = submissions and comments from users with highest eigencentrality values (both overall and per phase)

Topic identification using Latent Dirichlet Allocation



Timeline

Timeline



May 7th-9th

stablecoin terraUSD (UST), which is supposed to maintain a \$1 peg, started to wobble and fell to 35 cents

May 10-11th

More than half, 58%, of traders place futures bets on higher LUNA prices despite drop, leading to \$63 million in liquidations.

May 12th

LUNA's price fell from \$80 to a few cents.

The Terra blockchain is officially halted for the first time.

May 13th

The OKX and Binance end trading of Terra tokens.

Do Kwon submits a "Revival Plan"

May 16th

Do Kwon proposes to fork Terra without UST, calling the current chain "Terra Classic."

May 24th

South Korean
authorities are
reportedly looking to
more closely scrutinize
crypto exchanges.

May 25th

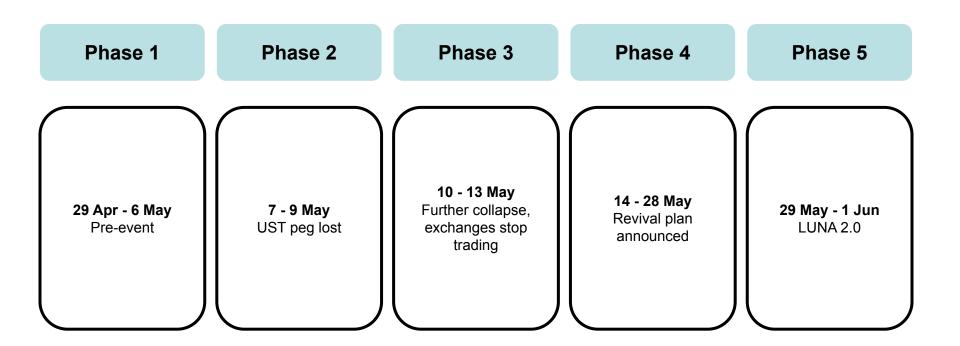
Terra validators vote to approve Do Kwon's plan to launch a new blockchain tagged "Terra 2.0" without a stablecoin.

May 28th

Terra 2.0 launches, with LUNA 2 airdrop to follow.

Timeline - Split into Phases (for analysis)



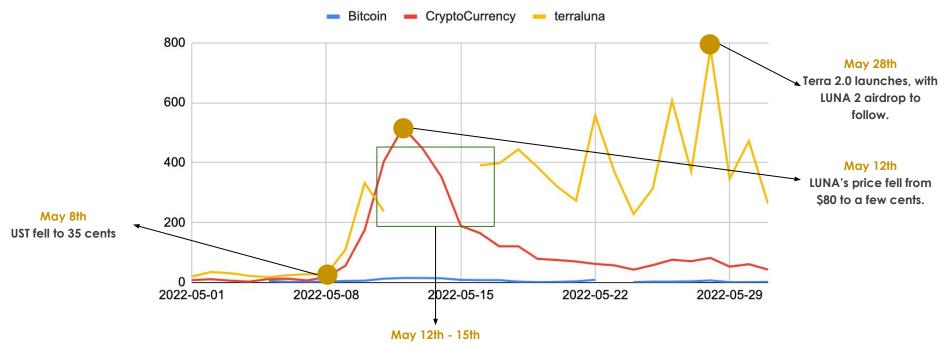


Timeline - Submissions



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Volume of Submissions by Date and Subreddit

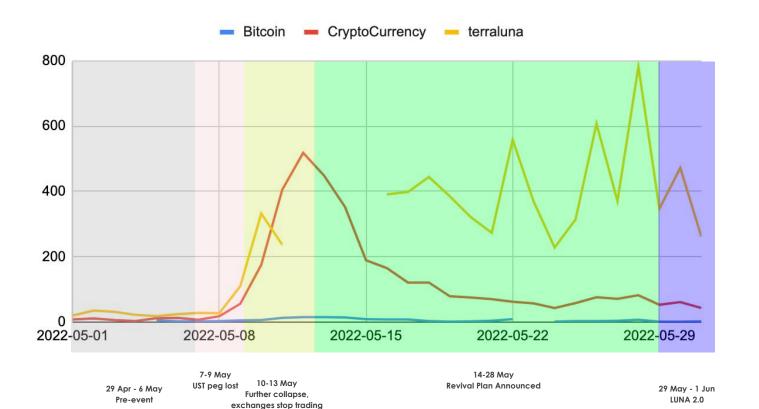


r/terraluna subreddit shut down to prevent suicidal contents

Timeline - Submission by phases





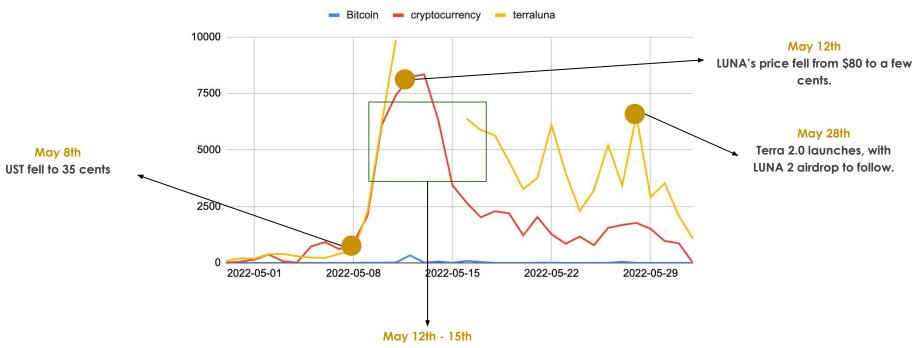


Timeline - Submissions and Comments



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Volume of Submissions and Comments by Date and Subreddit

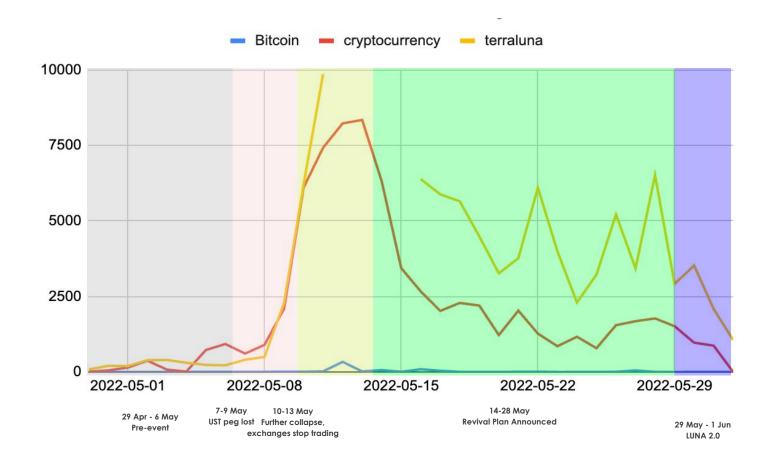


r/terraluna subreddit shut down to prevent suicidal contents

Timeline - Submissions and Comments by phases



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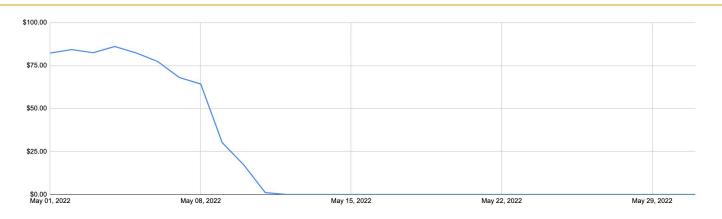
Timeline - Price

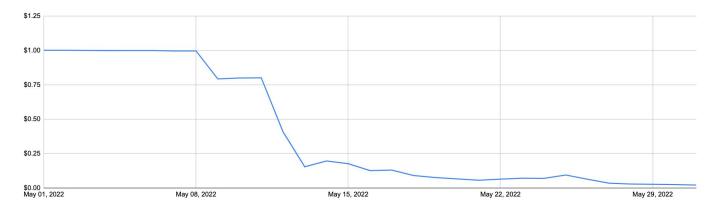


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LUNA

UST

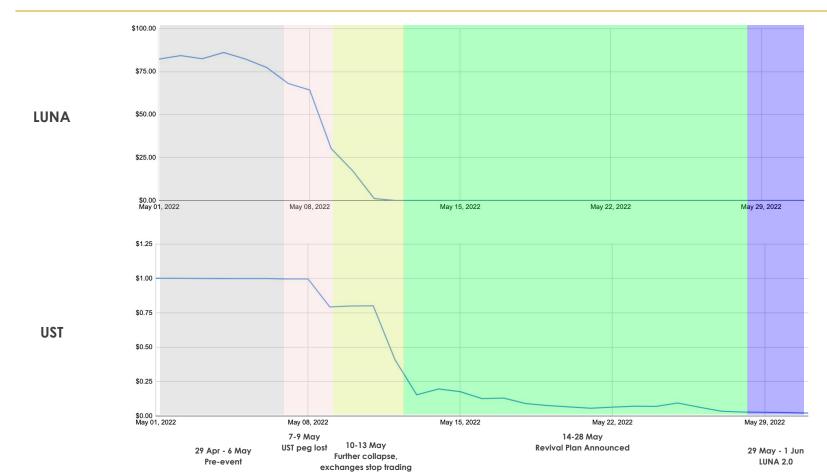




Timeline - Price by Phases



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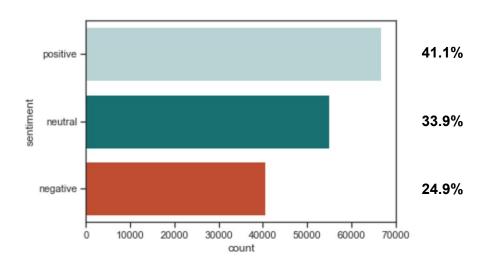




Analysis/Findings Sentiment Analysis Overall

Sentiment Evolution - Overall



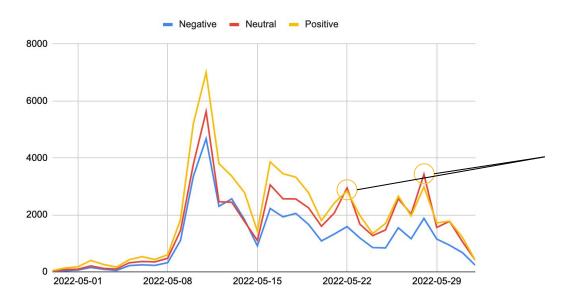


Submissions and comments are **mostly positive**

But neutral and negative posts are not insignificant in terms of volume

Sentiment Evolution - Day by day





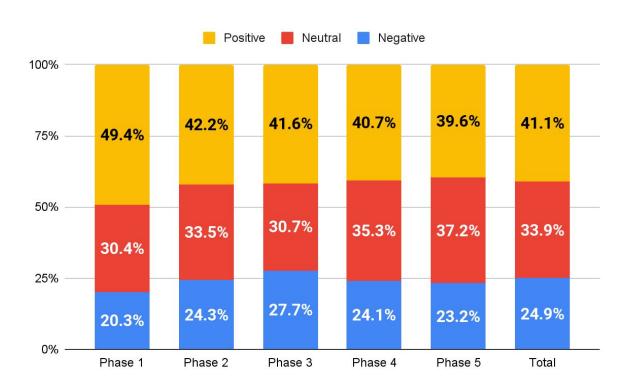
Positive posts dominate almost throughout the analysis period

Exceptions can be seen on some particular moments i.e. **May 22nd and May 28th** (part of Phase 4 - Revival Plan Announcement) where more neutral sentiments were seen

Sentiment Evolution - By phase

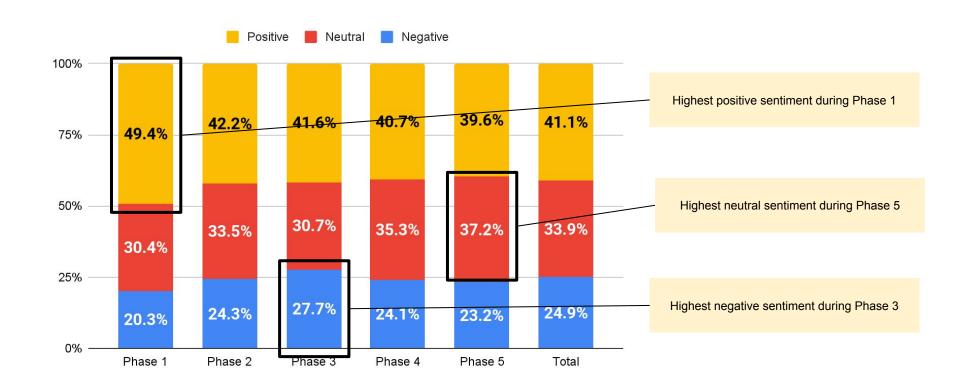


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Sentiment Evolution - By phase







Analysis/Findings Network Analysis Overall

Network Analysis - Overall - Top Users (Eigencentrality)



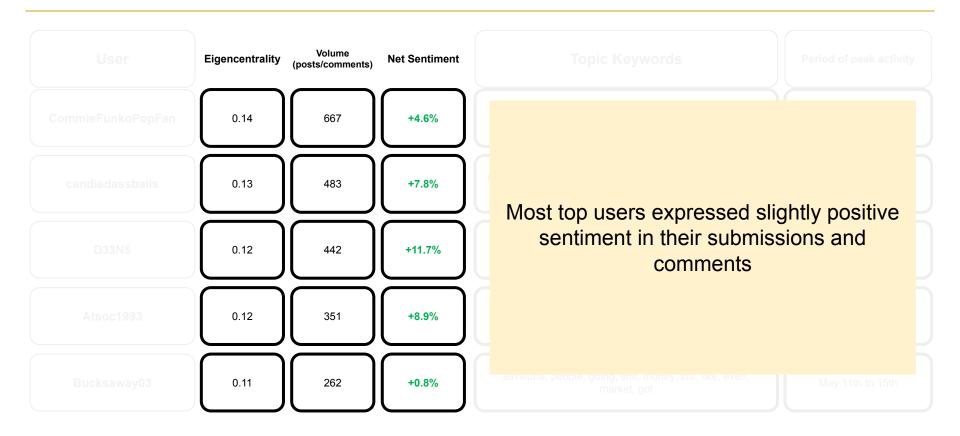
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User	Eigencentrality	Volume (posts/comments)	Net Sentiment	Topic Keywords	Period of peak activity
CommieFunkoPopFan	0.14	667	+4.6%	terraluna, money, people, get, like, burn, buy, coins, think, good	May 21st and 22nd
candiedassballs	0.13	483	+7.8%	terraluna, Do Kwon, money, make, like, burn, people, mod, dont, would	May 22nd
D33N5	0.12	442	+11.7%	terraluna, would, get, million, twitter, tokens, lol, wallet, burn, money	May 22nd and 25th
Atsoc1993	0.12	351	+8.9%	terraluna, wallet, post, like, even, one, would, burn, still, people	May 18th and 22nd
Bucksaway03	0.11	262	+0.8%	terraluna, people, going, shit, money, still, like, even, market, got	May 11th to 15th

Network Analysis - Overall - Top Users (Eigencentrality)



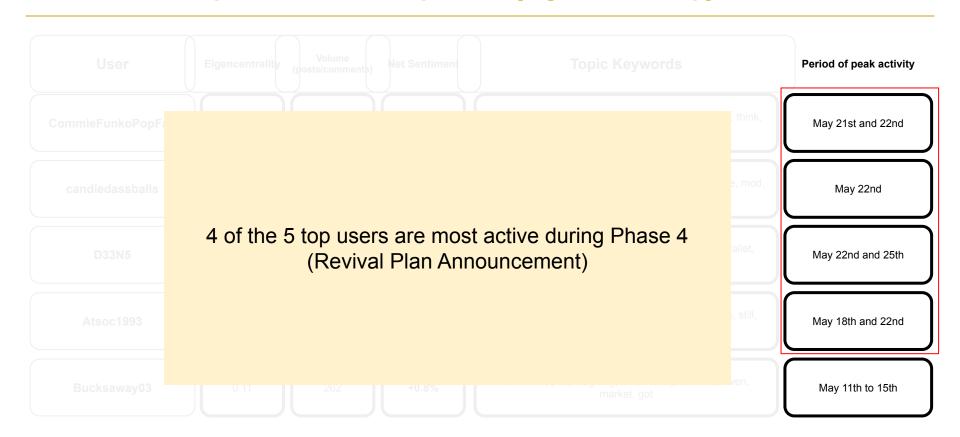
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Network Analysis - Overall - Top Users (Eigencentrality)



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Network Analysis - Overall - Top Users (Eigencentrality)



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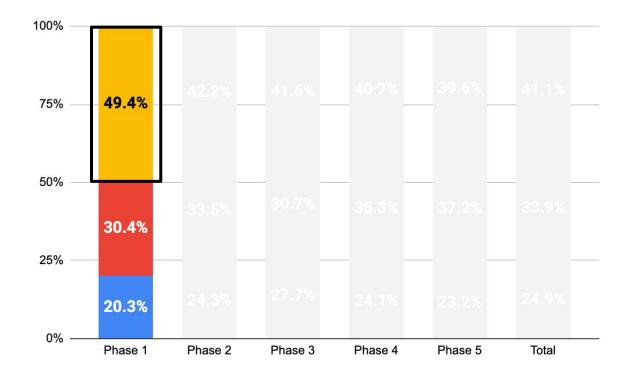
	Topic Keywords	
	terraluna, money, people, get, like, burn, buy, coins, think, good	
Top topics from top users revolve around the mechanics of the LUNA revival plan	terraluna, Do Kwon, money, make, like, burn, people, mod, dont, would	
announced by the founder Do Kwon Most of them also commented and	terraluna, would, get, million, twitter, tokens, lol, wallet, burn, money	
answered to posts asking questions regarding the revival plan	terraluna, wallet, post, like, even, one, would, burn, still, people	
	terraluna, people, going, shit, money, still, like, even, market, got	



Analysis/Findings Phase 1 Pre-event

Sentiment Evolution - Phase 1





Highest positive sentiment compared to other phases, likely due to the collapse not taking place yet

Sample Posts/Comments (Positive)

"giving a big shout out to you!!! i had given up on my tokens when i tried to bridge from terra station to metamask and with your tips i went back into the bridge and was able to find that my tokens were in the ethereum and from there i was able to copy the address and finish the transfer!!!!"

"fortune favors the rich"

"yes, terra luna, my favorite person. terra luna is a great cryptocurrency to consider."



Top Users (based on eigencentrality) - Phase 1 (Pre-event)

SilverHoard

eigencentrality = 0.69

Number of posts: 28 Net sentiment: +13.6%

Topic keywords:

market, people, much, money, like, control, crypto, make, potential, see

Sample Posts/Comments from user

"first looked into it in 2015, but only really did my homework and got into it late 2017. 2018 was my baptism by fire. been here ever since."

"badly hurt for sure. although perhaps in hindsight it might be a necessary evil. hard to tell at this point in time. it sure does feel like the crypto space is at an important crossroads."

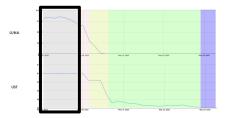
"i'd say it's both an ecosystem and a market, and both are necessary."

"luckily i learned my lesson the first time around. 2018 was a wild ride. but still, this can get pretty frustrating and tiresome."

Top user SilverHoard posted
useful and positive
Crypto-related advices and
made comments of similar
sentiment and context on other
users' posts

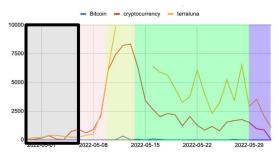


Price



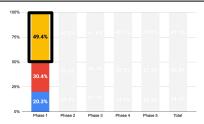
Price of UST and LUNA were still stable during this time

Volume of Posts/Comments



Volume of submissions were lower compared to the rest of the month

Sentiment



Highest positive sentiment compared to other phases, likely due to the **collapse not taking place yet**

Network Structure

One top user (SilverHoard)

useful and positive posts/comments

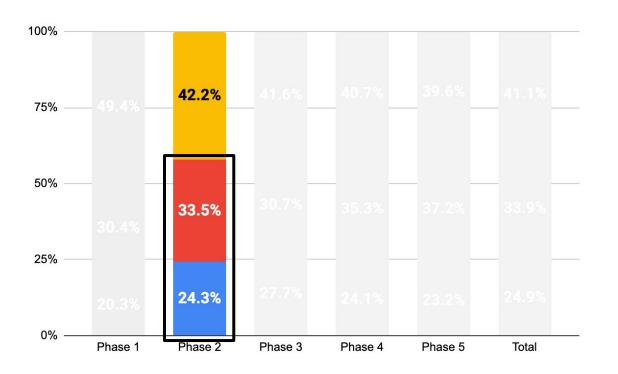
Other than SilverHoard no other users' eigencentrality were significantly high enough to be looked deeper into.



Analysis/Findings Phase 2 UST peg lost

Sentiment Evolution - Phase 2





Negative and neutral sentiment increases compared to Phase 1, due to collapse/depeg starting to happen

Sample Posts/Comments (Neutral)

"not invested in luna, but intrigued by the news and following."

Sample Posts/Comments (Negative)

"terra luna price crash! should you worry?"

"aight a couple days later, ust is at 0.94.
i amend my previous statement: this is
in fact a serious depeg compounded by
the fact that it isn't immediately
correcting."

Network Analysis - Phase 2



Top Users (based on eigencentrality) - Phase 2 (UST peg lost)

gnarley_quinn
eigencentrality = 0.57

Number of posts: 33 Net sentiment: +9.6%

Topic keywords:

terraluna, btc, started, price, depeg, stables, left, peg, sold, increased

Sample Posts/Comments from user

"what were the terms again? it had to stay above \$80-ish? and the bet was like \$10m or something right?"

"well even a few hours ago has still been a better move than holding right now. haha well done. great for a laugh."

"sorry man. I'm sure it is a very bitter pill to take right now."

Odlavso

eigencentrality = 0.35

Number of posts: 14 Net sentiment: -6.9%

Topic keywords:

Terraluna, usd, gif, giphy, crypto, live, right, price, worth, supply

Sample Posts/Comments from user

"best of breed? more like shit out of luck, am i right?"

"this wouldn't be a loss, this would be the end for luna"

"have a drink and cry"

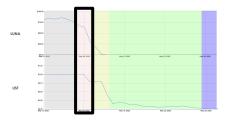
There were two users with significantly higher eigencentrality compared to others, although sentiment-wise they are quite different

gnarley_quinn's posts are mostly positive in terms of sentiment, showing concern for others and optimism. Topic discussed include the impacts of the UST depegging and whether people should hold or sell their LUNA holdings.

On the other hand, Odlavso's overall sentiment is negative and pessimistic. The user commented on LUNA and UST's decreasing prices, and how the situation is bad for him/her and other holders.

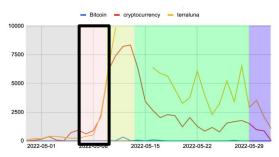


Price



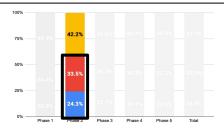
Price of UST dropped below \$1 (depeg), and LUNA price started to see significant drops

Volume of Posts/Comments



Volume of submissions started increasing slightly across all analyzed subreddits

Sentiment



Negative and neutral sentiment increases compared to Phase 1, due to collapse/depeg starting to happen

Network Structure

Two top users: gnarley_quinn and Odlavso

Contrasting tones between the two; one positive and optimistic while the other is more negative

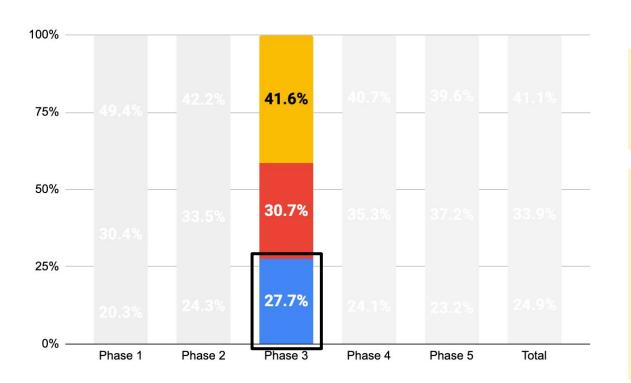
Topics revolve around their responses to the price drops and whether to hold or to sell their holdings



Analysis/Findings Phase 3 Further collapse, exchanges stop trading

Sentiment Evolution - Phase 3





Negative sentiment increases even further, reaching its highest compared to other phases. This is due to the peak of the collapse happening and exchanges halting LUNA and UST trades

Sample Posts/Comments (Negative)

"i thought withdrawals were suspended on binance, not deposits? help pls"

""so fellas the last 3-4 days we all know what happened ... very sad for all those people that lost fortunes.."

""no joke. no recent posts. the reddit page r/terraluna has shut down as most posts were about suicide."

Network Analysis - Phase 3



Top Users (based on eigencentrality) - Phase 3 (Further collapse)

hearsdemons eigencentrality = 0.20

Number of posts: 11 Net sentiment: +7.0%

Topic keywords:

terraluna, bitcoin, like, people, crypto, coins, stable, coin, one, money

Sample Posts/Comments from user

""guys, the fear-greed index is at 12, extreme fear. we're seeing a lot of fear, a lot of uncertainty. the luna situation has only exacerbated what was already a depressed market. but veteran investors are looking at this unmoved."

SkepticalCryptoDude eigencentrality = 0.18

Number of posts: 37 Net sentiment: +5 9%

Topic keywords:

Crypto, terraluna, market, think, could, term, people, lot, nothing, crash

Sample Posts/Comments from user

"it was fascinating. we all complained about going sideways and wanted the market to do something. welp, it did."

"i genuinely feel for luna holders. it looked so strong and seemed as if it would be the best performing alt in the bear market, and wham. crypto is wild" Underrated321 eigencentrality = 0.16

Number of posts: 88 Net sentiment: -0.7%

Topic keywords:

terraluna, billion, money, people, gif, would, leverage, hours, like, liquidated

Sample Posts/Comments from user

"exactly. if they allow for such a mistake to happen, then it deserves to die and not be invested in"

"holy f*ck the liquidations are now at \$2.75 billion"

"karma is a b*tch"

There were three users with higher eigencentrality.

Two users posted less, but showed higher centrality and higher net sentiment.

hearsdemons and

SkepticalCryptoDude made comments/posted submissions regarding what they think is happening with the collapse, shared advices to others, and expressed how they sympathize with those who lost a lot.

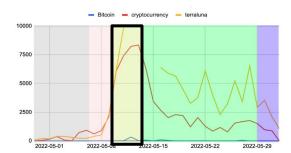
Another top user
Underrated321 took a more
pessimistic approach by
focusing on the negative side of
the collapse i.e. liquidation
volume and the Terra LUNA
project being fundamentally
flawed.





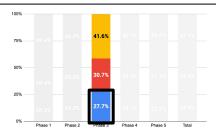
Biggest drops in terms of price for both LUNA and UST

Volume of Posts/Comments



Volume of submissions peaked for non-TerraLUNA subreddits, and partially for TerraLUNA subreddit up until May 11th before it was shut down due to suicidal topics from May 12th to 15th.

Sentiment



Highest negative sentiment proportion compared to other phases

Network Structure

Three top users: hearsdemons, SkepticalCryptoDude, and Underrated321

First two users shared positive messages, while Underrated321 posted more negative comments

Topics revolve around the details of the collapse, what they predict will happen next, and advices to others

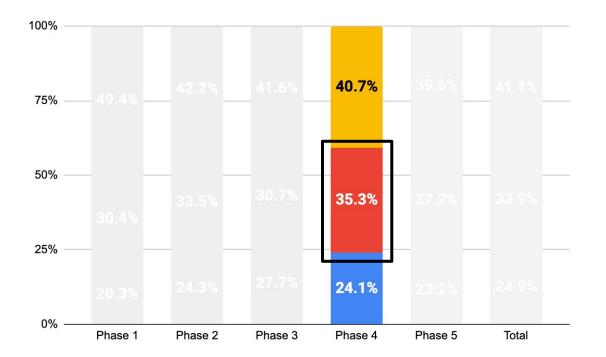


Analysis/Findings Phase 4 Revival Plan

Sentiment Evolution - Phase 4



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Neutral sentiment increases and positive/negative sentiment decreases from the previous phase. This is likely caused by submissions/comments posted are related to the revival plan; either in the form of questions or updates.

Sample Posts/Comments (Neutral)

"can someone that knows the luna situation shed some light on what this may mean"

"anyone know what will happen to wluna coins before or after any potential fork?"

"dokwon maybe already on the proccess of burning lunas with his own money or funded from outside partners but just acting opposed to his plan in order to keep the price of luna low until he acquires above certain percentage of ownership of supply. then no reason to excite investors just yet. dokwon may be is already on his plan of burning lunas"

Network Analysis - Phase 4



Top Users (based on eigencentrality) - Phase 4 (Revival Plan Announced)

CommieFunkoPopFan eigencentrality = 0.21

Number of posts: 604 Net sentiment: +4.2%

Topic keywords:

terraluna, money, people, get, like, burn, buy, coins, think, good

Sample Posts/Comments from user

"if your intention is to swing trade it, you should probably wait for a lower entry point. but you do you"

"you can still buy lunc on cryptocom, hitbtc and a few other places for the right price if you want to. as long as it enables withdrawals you're good."

candiedassballs

eigencentrality = 0.20

Number of posts: 482 Net sentiment: +7.7%

Topic keywords:

terraluna, Do Kwon, money, make, like, burn, people, mod, dont, would

Sample Posts/Comments from user

"dokwon tweeted, deploying capital, steady lads luna is going down a lot even after the burn, dont worry though its all according to plan, no one panic, its okay!"

"make luna great again! first excutive order will be luna stimulus for everyone, second step is make dokwon financial prez advisor."

D33N5

eigencentrality = 0.17

Number of posts: 355 Net sentiment: +11.1%

Topic keywords:

terraluna, twitter, million, lol, tokens, would, get, money, people, status

Sample Posts/Comments from user

""i would expect an announcement after the vote closes later, basically any exchange that trades in luna will get an airdrop of luna 2 which they will have to distribute among their holders"

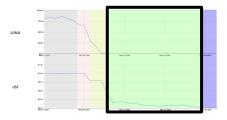
""yes, in time, i'm going to hold my bag for the next few years and see how it develops, looks like i have a vested interest in the luna chains for the next couple of years now anyway lo!" The three top users with highest eigencentrality are the same users who tops the centrality across all phases.

Top topics from top users revolve around the the LUNA revival plan announced by the founder Do Kwon.

Most of them also commented and answered to posts asking questions regarding the revival plan.

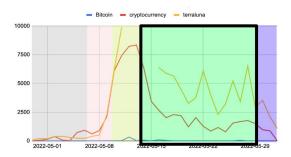


Price



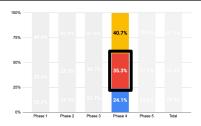
Prices stagnated at the low levels post-collapse

Volume of Posts/Comments



Volume of submissions tapered down for non-TerraLUNA subreddits, but increased very significantly in r/TerraLuna

Sentiment



Positive sentiments recovered, mostly from posts in r/TerraLuna from hopeful bagholders responding to the revival plan

Network Structure

Three top users who are also the overall top 3 users: CommieFunkoPopFan, candiedassballs, and D33N5

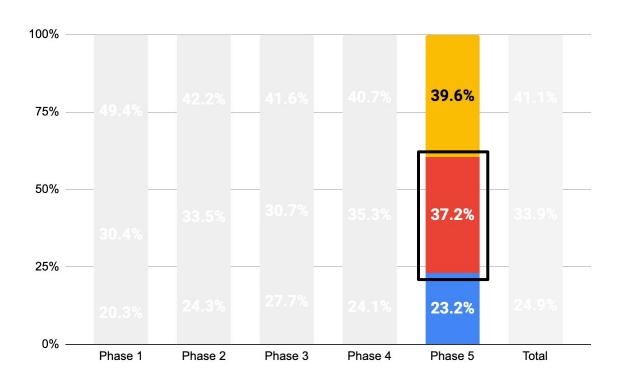
All users showed net positive sentiments, with topics include details on the revival plan and responses to questions posted by other users



Analysis/Findings Phase 5 LUNA 2.0

Sentiment Evolution - Phase 5





Phase 5 has the highest proportion of neutral sentiment posts. Most of posts were questions asked by users on the plan and the new LUNA token.

Sample Posts/Comments (Neutral)

"weekly recap: major crypto developments go live with terra 2.0"

"can i have pros and cons of investing into luna classic. why will it go up and does it have any real usability?"

"how many luna tokens are currently needed to become a validator? how many luna tokens are currently needed to become a validator?"

Network Analysis - Phase 5



Top Users (based on eigencentrality) - Phase 5 (LUNA 2.0)

Best_Satisfaction308 eigencentrality = 0.36

eigencentrality = 0.20

Jabulon

Historical-Camel-168 eigencentrality = 0.20

Number of posts: 138 Net sentiment: +10.8%

Topic keywords:

terraluna, binance, new, think,

money, trading, know, time, open

Number of posts: 80 Net sentiment: +10.9%

Topic keywords:

burn, terraluna, like, dokwon, even, supply, would, could, think, transaction

Number of posts: 23 Net sentiment: +5.8%

Topic keywords:

terraluna, people, dokwon, money, community, png, buy, crypto, new, get

Sample Posts/Comments from user

"I'm curious what people think. I think there is a reason binance support it and will re list it and also list the new luna. yes i will buy lunc."

"That's true. then just hope they have a plan. I guess there is a reason that most of the exchange supported luna 2"

Sample Posts/Comments from user

"the website for the project changed to talk about luna2 not luna1, i'm not sure you can make proposals for lunac"

"someone make a good burn proposal for luna1 pls. just double the tx fees and send those straight to burn, and let all validation burn from now on."

Sample Posts/Comments from user

"we are making the comeback of the century! luna 2.0 will not get anyones money back as evidence by the failed launch because the trust is gone but as a community we can make luna classic succeed!! sold my luna 2.0 at 8 dollars to buy lunc at 0.00008 and burned it!"

"just a healthy correction. 100x soon easy"

In phase 5, there were three top users with considerably highest eigencentrality compared to others; these users are:

Best_Satisfaction308,

Jabulon, and

Historical-Camel-168.

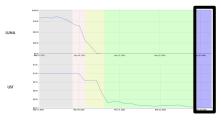
Top topics from top users revolve around optimism with LUNA 2.0 and their plans regarding it.

Phase 5 - Findings



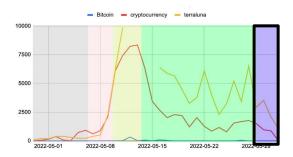






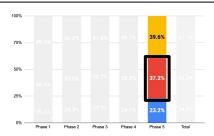
Prices improved very slightly post LUNA 2.0 launch, but fell back down

Volume of Posts/Comments



Volume of submissions decreased from phase 4

Sentiment



More posts with neutral sentiments compared to other phases

Network Structure

We identified three top users in phase 5

Top topics from these top users revolve around optimism with LUNA 2.0 and their plans regarding it



Conclusion



Key learning points

- Evolution of network structure, rise of influential/top users, and how topics shape during the course of event
- Generally, as volume of discussion grows, more points of centrality appear, but this
 is not always the case
 - Phase 4 contains the top users on overall timeline, despite daily volume being highest during Phase 3
- Top users do not tend to be very polarizing (i.e. extremely positive or extremely negative) in terms of sentiment, and are the ones who express their opinion, knowledge, and information in a more clear and verbose manner
 - As seen in the analysis for all phases, the net sentiments for these top users are at most slightly skewed to positive
 - Additionally, language-wise, the verbatims we see for these users tend to be well-constructed and thorough



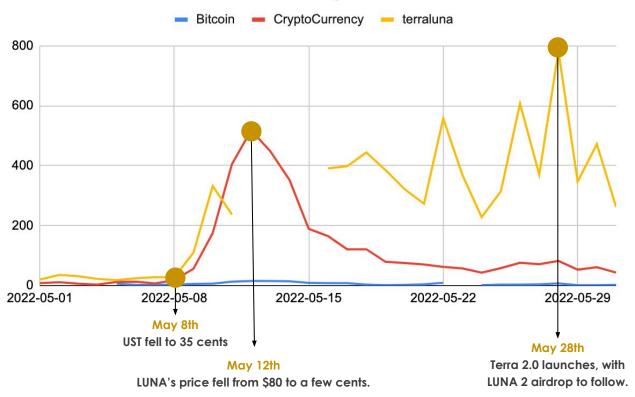
Q&A



Appendix



Volume of Submissions by Date and Subreddit



VADER (Valence Aware Dictionary and sEntiment Reasoner)

- Combination of...
 - Sentiment lexicon (a dictionary of words and their associated sentiment scores) + grammatical rules

Lexicon-based approach	
Polarity scoring	
Negation handling	
Intensifier and modifier handling	
Sentiment aggregation	



Network Analysis

Corpus

Create graph where words are the nodes and word bigram combinations are the edges

Create separate graph for different periods

Topic Evolution - Network Analysis (1)

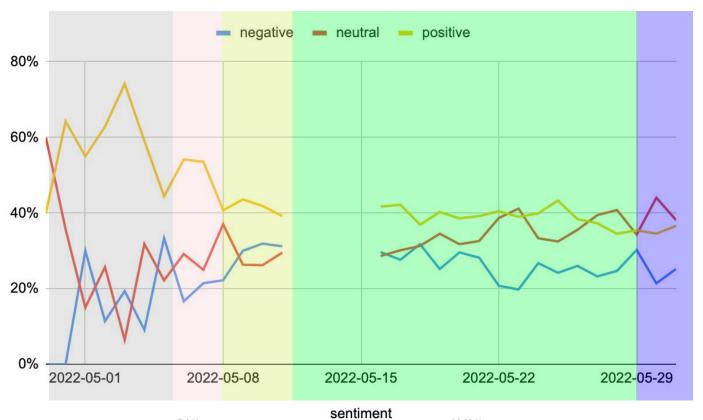


School of Information Systems

Sentiment Evolution - LUNA Subreddit



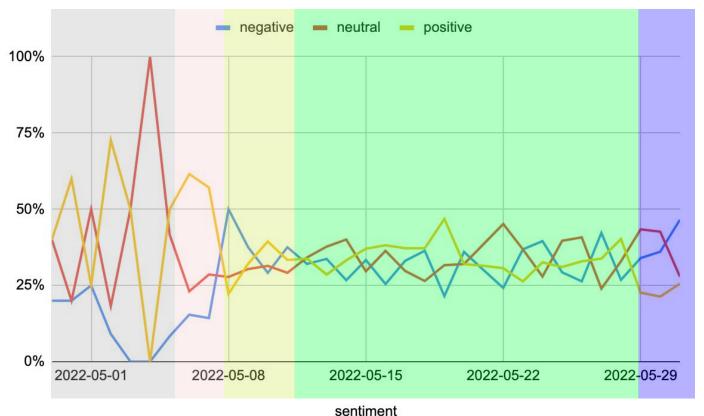




Sentiment Evolution - Other Crypto Subreddits



School of Information Systems



14-28 May Revival Plan Announced

Topic Evolution - LDA (1)



29 Apr - 6 May Pre-event

changed
terraluna
one
crypto
like
cro
market
wallet
see
right

terraluna png crypto var like twitter coin price exchange format

terraluna twitter status alice wallet code protocol would anyone station

price

btc

usdc

Itc

order

wallet

oracle

7-9 May **UST** peg lost

week
terraluna
update
last
alice
weeks
see
experimen
going

2020

terraluna iron suicide bridge tried metamask going stablecoin message international changed terraluna terraluna crypto twitter status price like minutes protocol get rate

terraluna twitter wallet app fina google macedo one help cash

terraluna billion bitcoin one price coins foundation auto time astro

terraluna peg btc price market terrausd stablecoin bitcoin crypto binance

terraluna btc token 2020 new bitcoin money get market see

Topic Evolution - LDA (2)



10-13 May Further collapse, exchanges stop trading

auto	people
redd	money
preview	like
width	know
webp	make
format	even
jpg	think
pjpg	lost
scammers	get
bybit	going

terraluna

crypto

kwon

btc

bitcoin

crash

people

like

one

png

terraluna	
burn	
proposal	
community	
twitter	
kwon	
money	
fork	
vote	
plan	

terraluna	terraluna
kwon	crypto
binance	market
crash	bitcoin
crypto	btc
collapse	would
founder	people
ceo	like
says	coin
korean	one

terraluna
airdrop
new
wallet
get
station
anyone
binance
buy
tokens

terraluna png price poll supply market reddit top format cap

pump tether dump going usdt guys like watch big got

14-28 May **Revival Plan Announced**

terraluna market
price
people
would
could
like
crypto
money
usdt

terraluna terraluna airdrop burn wallet new people new station money get like binance get buy anyone holders would tokens coin

Topic Evolution - LDA (3)



29 May - 1 Jun LUNA 2.0

terraluna	terraluna
binance	airdrop
wallet	wallet
new	anyone
trading	get
lunac	money
pump	post
investors	validator
going	station
dump	sure

terraluna
crypto
poll
airdrop
luna2
got
binance
view
reddit
get

terraluna
kwon
burn
new
like
get
people
still
holders
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sell
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ethereum