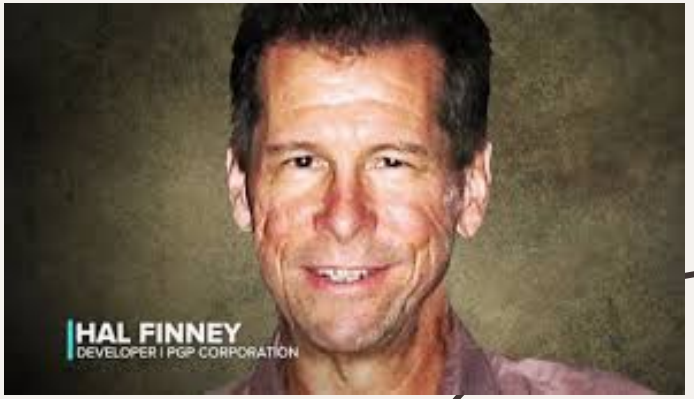
Topic Modeling Bitcoin Twitter

Nathan Huvelle 8/20/21

Origins of Bitcoin Twitter



The Wall of Shame

Evolution of Bitcoin Twitter

Pinned Tweet

Michael Saylor ⚡ @michael_saylor · Sep 18, 2020

#Bitcoin ₿ is a swarm of cyber hornets serving the goddess of wisdom, feeding on the fire of truth, exponentially growing ever smarter, faster, and stronger behind a wall of encrypted energy.

6.5K 7.6K 34.7K

Methodology

Twitter API tools to scrape the data

Tfldf Vectorizer for preprocessing

NMF for Dimensionality Reduction

Wordcloud for topic visualizations

Most Common Words

1. Bitcoin
2. Just
3. People
4. Like
5. Think
6. Good
7. Time
8. Money
9. Need
10. Know

Topics

time
money
freedom
buy
energy
going
lightning
el
wallet
doesn
gold
future
price
bitcoin
buying
technology
way
best
better
trade
standard
digital
fixes
fiat
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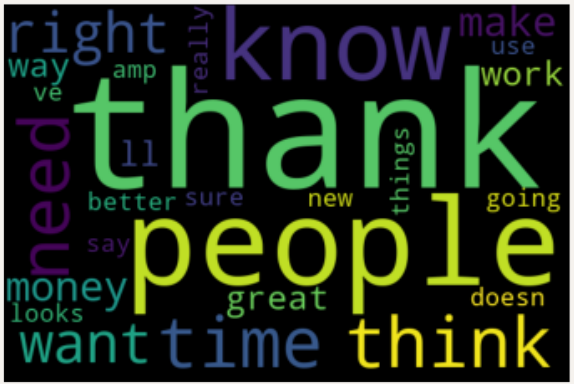
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looks
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time
think

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haha
idea
hell
book
pretty
thing
good
really
look
today
sir
damn
bad
day
luck
money
choice
better
looking
job
time
sounds
point
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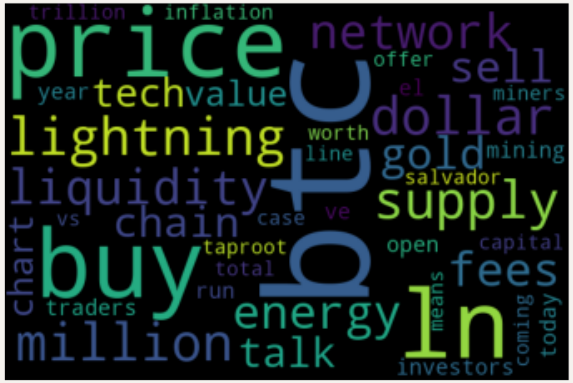
question
news
riddance

August 3rd - 15th: Good Morning becomes a trend

Topics when filtering for tweets with >2 retweets



Future Steps

N-grams and Named Entity Recognition

Network analysis of which users interact with each other

Measuring how topics change over time