The Bitcoin Controversy

Thoughts on the consequences of the philosophical differences in the Bitcoin community

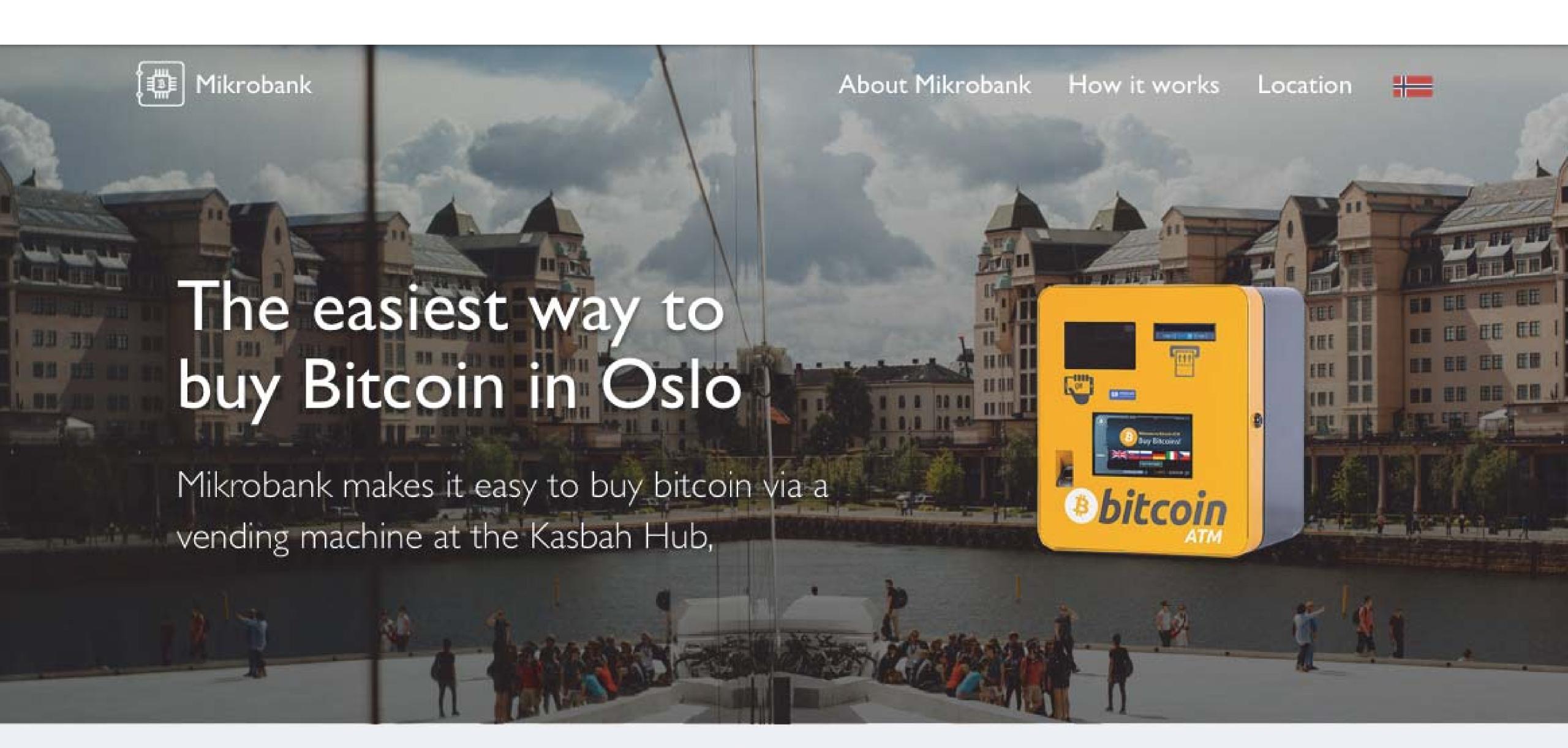


Vincent Olislagers - 31 Aug 2017





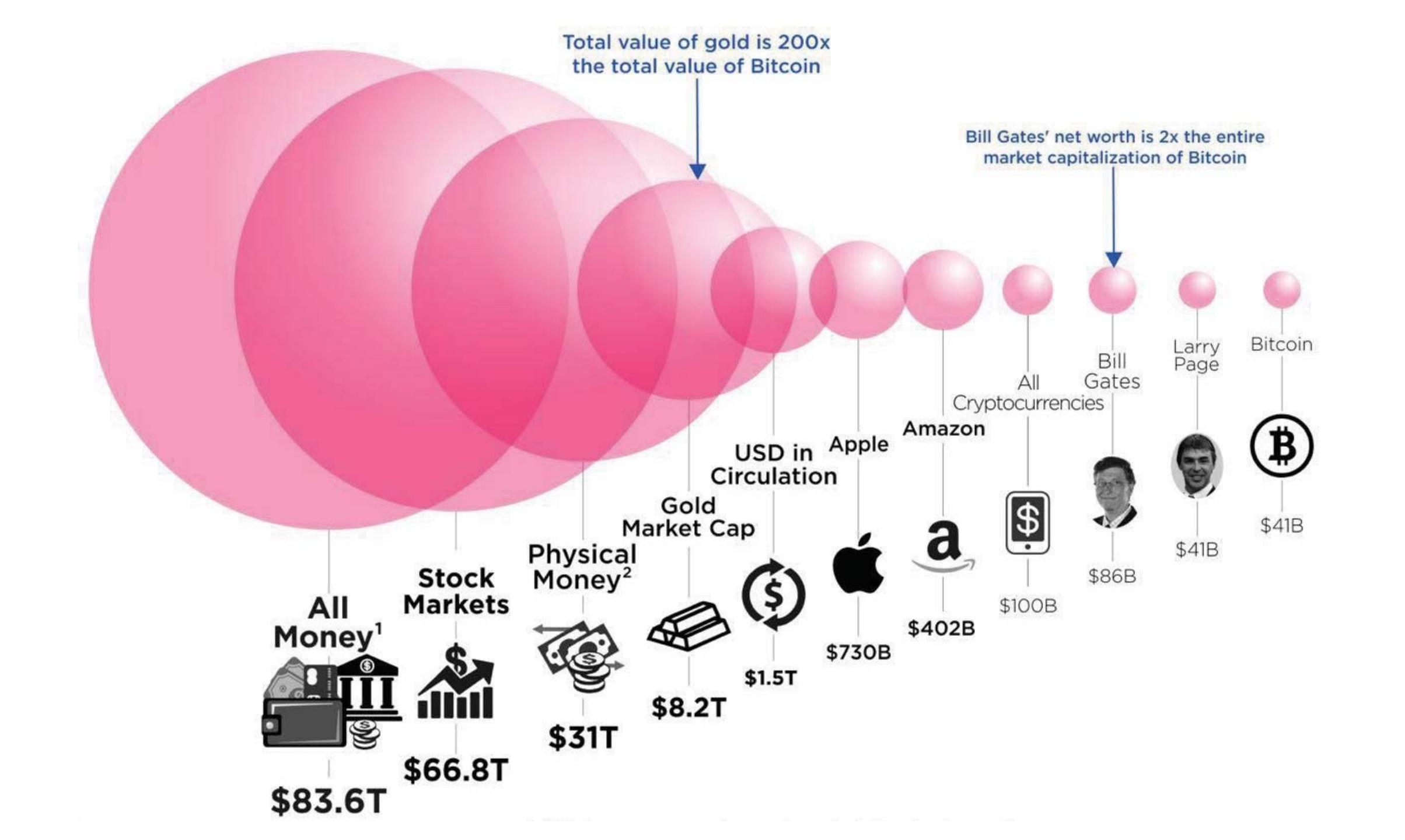
mikro-bank.no

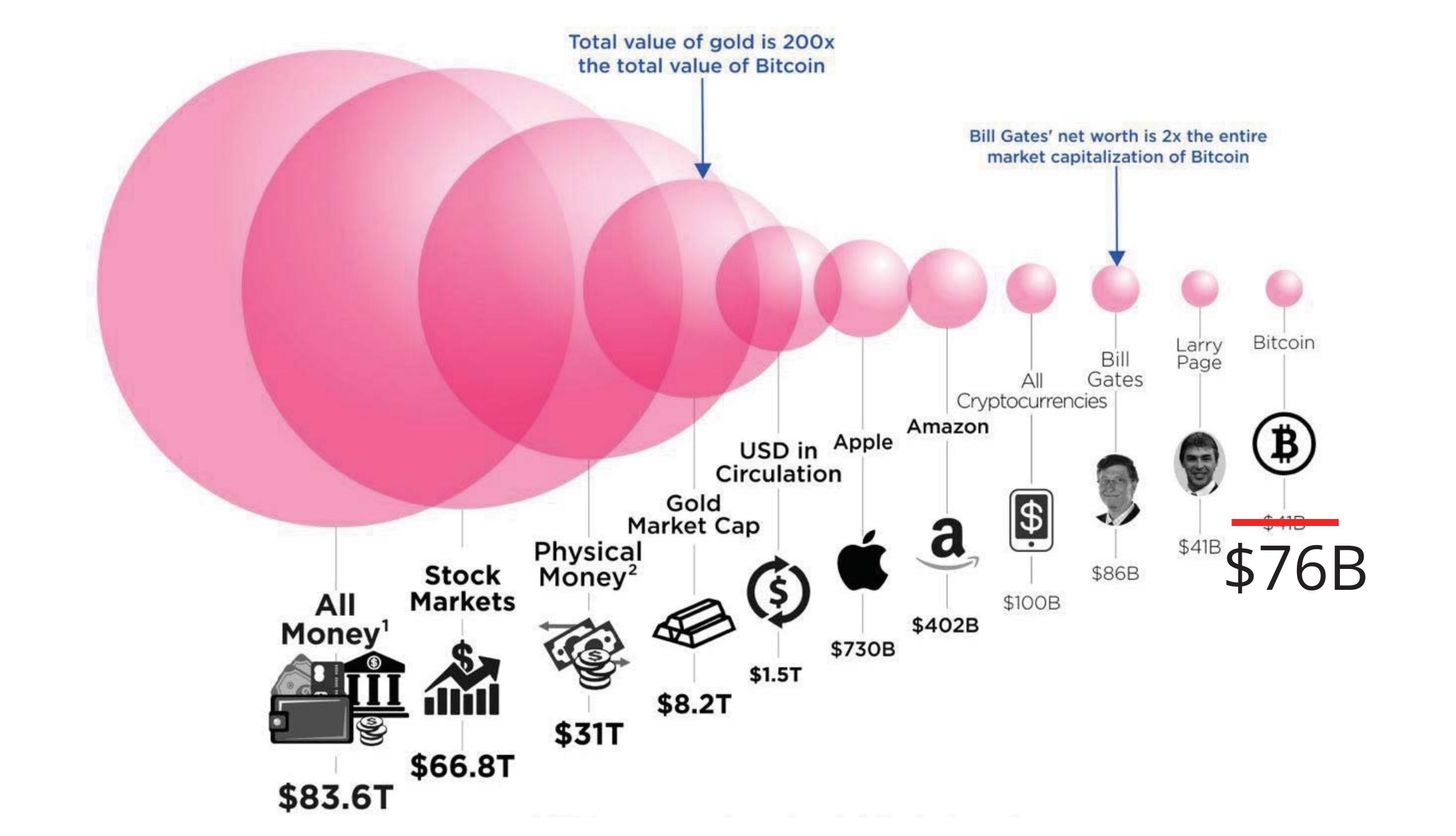


Agenda

- Current state of affairs
- Reasons people care about Bitcoin
- Bitcoin vs Bitcoin Cash
- Notable past controversial events.
- Questions
- Discussion

Current state of affairs





^ #	Name	Market Cap	Price	Circulating Supply	Volume (24h)	
1	Bitcoin	\$73,062,861,255	\$4421.40	16,524,825 BTC	\$1,897,910,000	
2	♦ Ethereum	\$31,564,609,802	\$334.94	94,239,595 ETH	\$781,368,000	
3	Bitcoin Cash	\$10,514,136,536	\$635.80	16,536,888 BCH	\$407,500,000	
4	Ripple	\$8,325,598,388	\$0.217130	38,343,841,883 XRP *	\$716,463,000	
5	Litecoin	\$2,720,922,972	\$51.71	52,619,707 LTC	\$201,636,000	

MARKETS

CHARTS

FAQ







RUB AUD SEK BRL NZD SGD ZAR NOK ILS CHF RON MXN

USD average price history





BUY BITCOIN BUYING GUIDES V MINING GUIDES V WALLET REVIEWS V TOOLS V NEED HELP? V

YOU ARE AT: Home » Bitcoin Obituaries: Following Bitcoin While it Dies and Goes Up in Price

Bitcoin Obituaries

Bitcoin has died 154 times

Obituary Stats | Submit Obituary | Obituary Generator



AUGUST 25, 2017

"Here's How Bitcoin Will Collapse" - TheStreet | \$4,205.85

Bitcoin is a gigantic bubble ready to explode, according to Euro Pacific Capital CEO Peter Schiff. While Schiff explained to...

READ MORE

But what is Bitcoin about?



Bitcoin is a way to send

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https://blockchain.in/

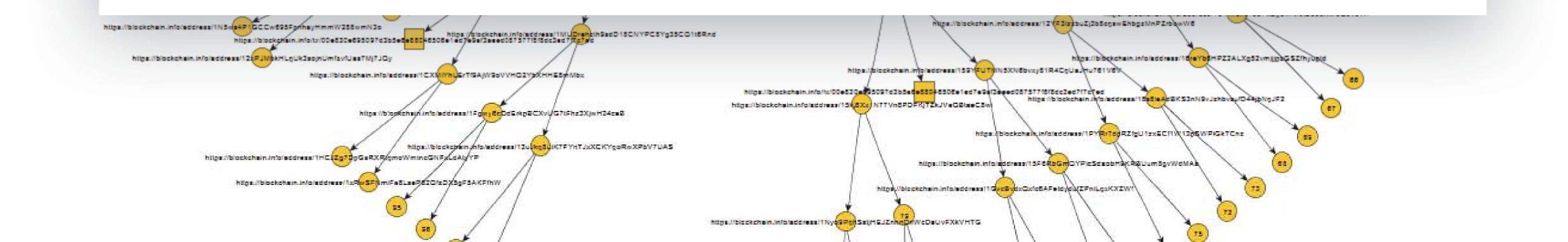
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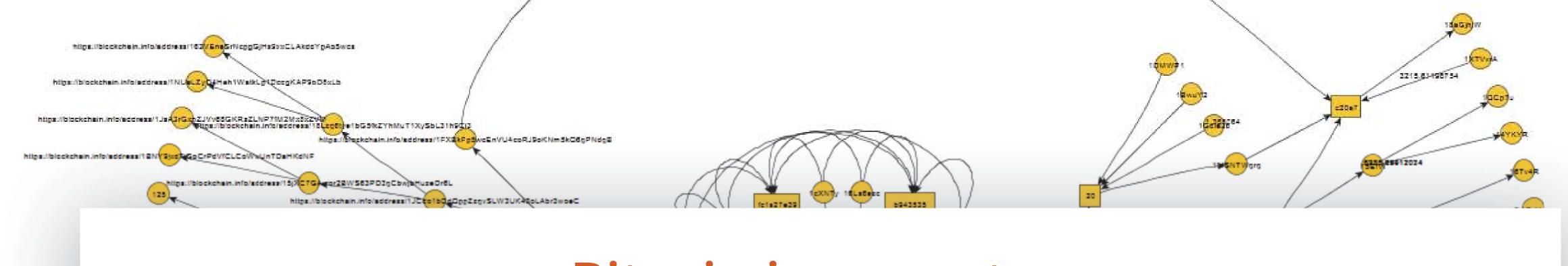
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Trustless & censorship resistant transactions

TbXpsPnSAVC(npOHspNSS





Bitcoin is a way to

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https://blockchain.in/

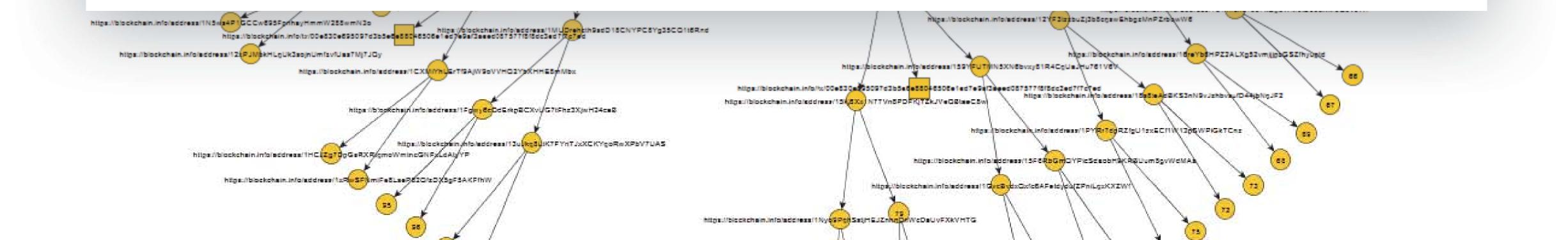
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own and spend value without having to rely on a trusted third party

TbXpsPnSAVC(npOHspNSS



Why are people putting money into this thing called Bitcoin?

Speculation

Speculation



Monday

Buy a pile of gold

Wednesday

Sell the gold and make a pile of money

Hedging risk in a portfolio of other high risk asset classes

TABLE 4
Correlation Table

	S&P 500	US Bonds	Bitcoin	Gold	US Real Estate	Oil	Emerging Market Currencies
S&P 500		-0.69	0.36	0.48	0.87	0.73	0.83
US Bonds	-0.69		-0.37	0.47	0.57	-0.53	0.52
Bitcoin	0.36	-0.37		-0.33	-0.36	-0.36	0.29
Gold	0.48	0.47	-0.33		0.45	0.52	0.62
US Real Estate	0.87	0.57	-0.36	0.45		0.63	0.74
Oil	0.73	-0.53	-0.36	0.52	0.63		0.63
Emerging Market Currencies	0.83	0.52	0.29	0.62	0.74	0.63	

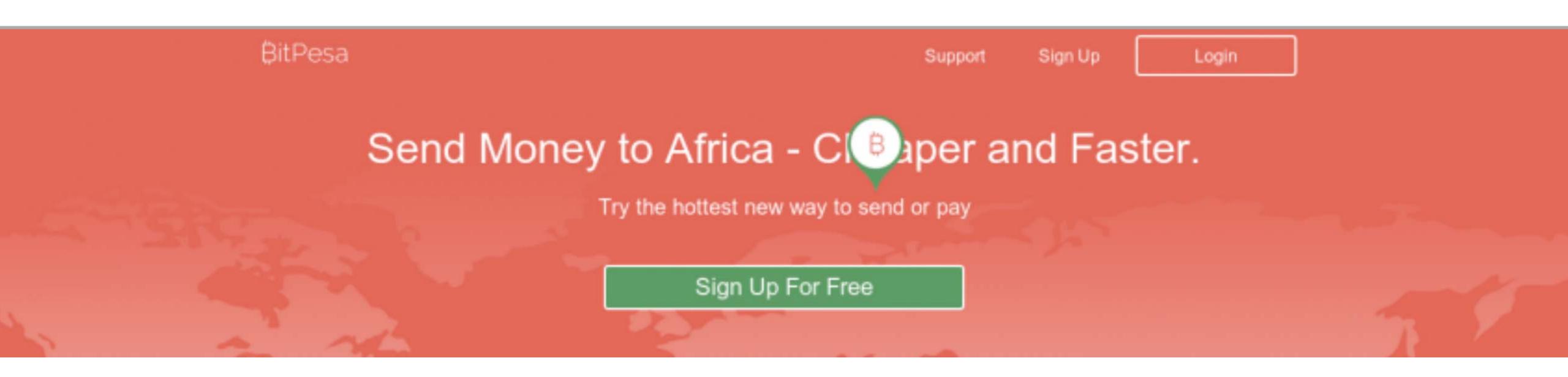
Low correlation (-0.4 to 0.4) in green, Mid correlation (absolute value 0.4 to 0.666) in white, High correlation (absolute value > 0.666) in red
Numbers in the table were chosen based on the maximum "absolute value" one-year rolling correlation that paired assets displayed since 2011

Source: ARK Investment Management LLC & Coinbase, data sourced from Bloomberg & TradeBlock

Economic instability



Competitive advantages to alternative options



Here's how it works.



Political instability



Bitcoin is..

- 1. A specific type of distributed network of computers.
- 2. The software running on these computers.
- 3. The ecosystem of trade that is enabled by this software.
- 4. The digital currency that is used for transactions in this ecosystem
- 5. The consensus mechanism used in the ledger of this software.
- 6. One unit of account of this digital currency (1BTC = \$4600)

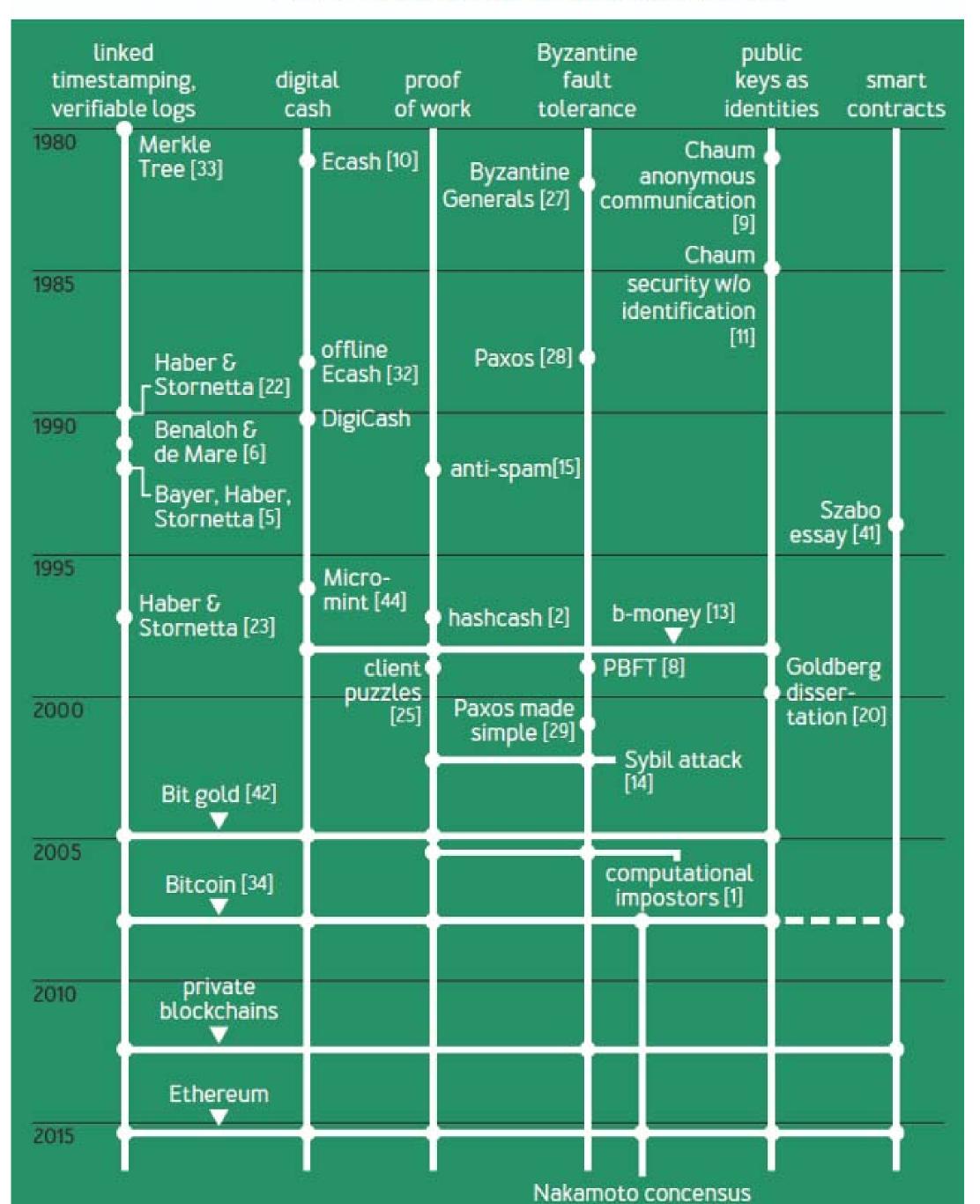
The ideas behind Bitcoin are not new.

Bitcoin combines many technical innovations

FIGURE 1: CHRONOLOGY OF KEY IDEAS FOUND IN BITCOIN

Most notable innovations:

- Digital ledger
- Public/private key cryptography
- Linked time-stamping &
 Merkle trees
- Nakamoto consensus



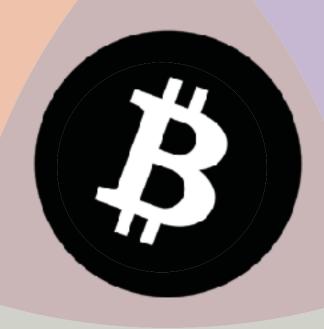
Which parties are involved in Bitcoin?











Interest groups



Pragmatists

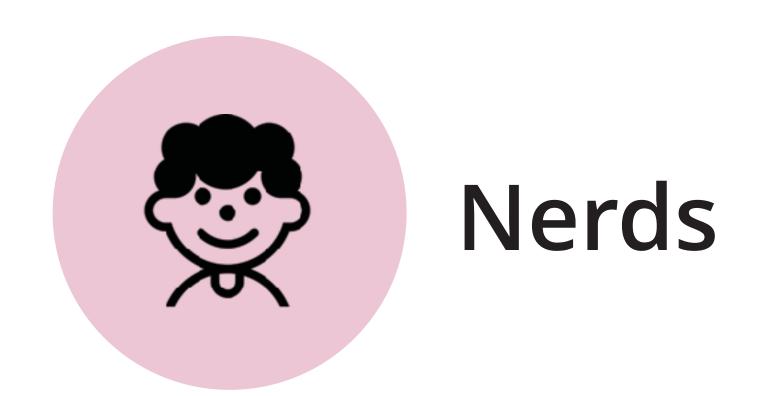


What do these groups want?









Blockchain businesses

Security researchers & economists

Hackers

Academia



Independent media

Privacy minded individuals

Net neutrality supporters

Activists



Governments & their citizens

Economic migrants

Wealth managers

Charities



Security researchers



Hackers



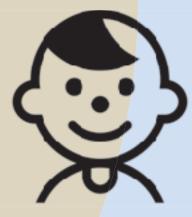




Wealth managers



Privacy minded individuals



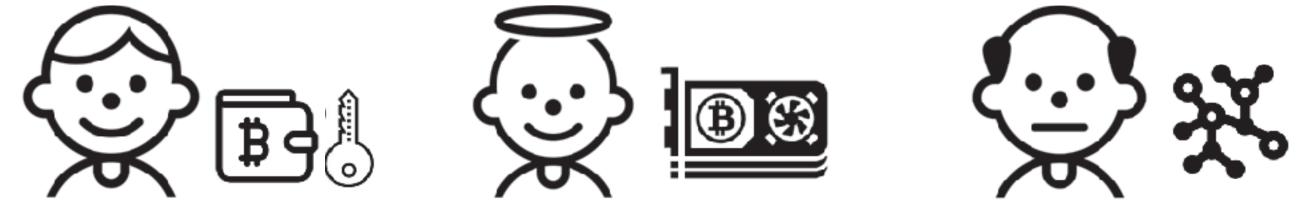
Independent media



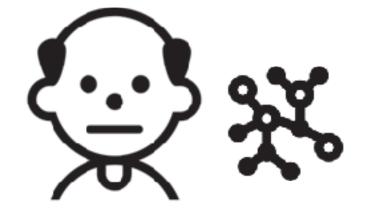
Citizen of dictatorship

Interest groups

Pragmatists

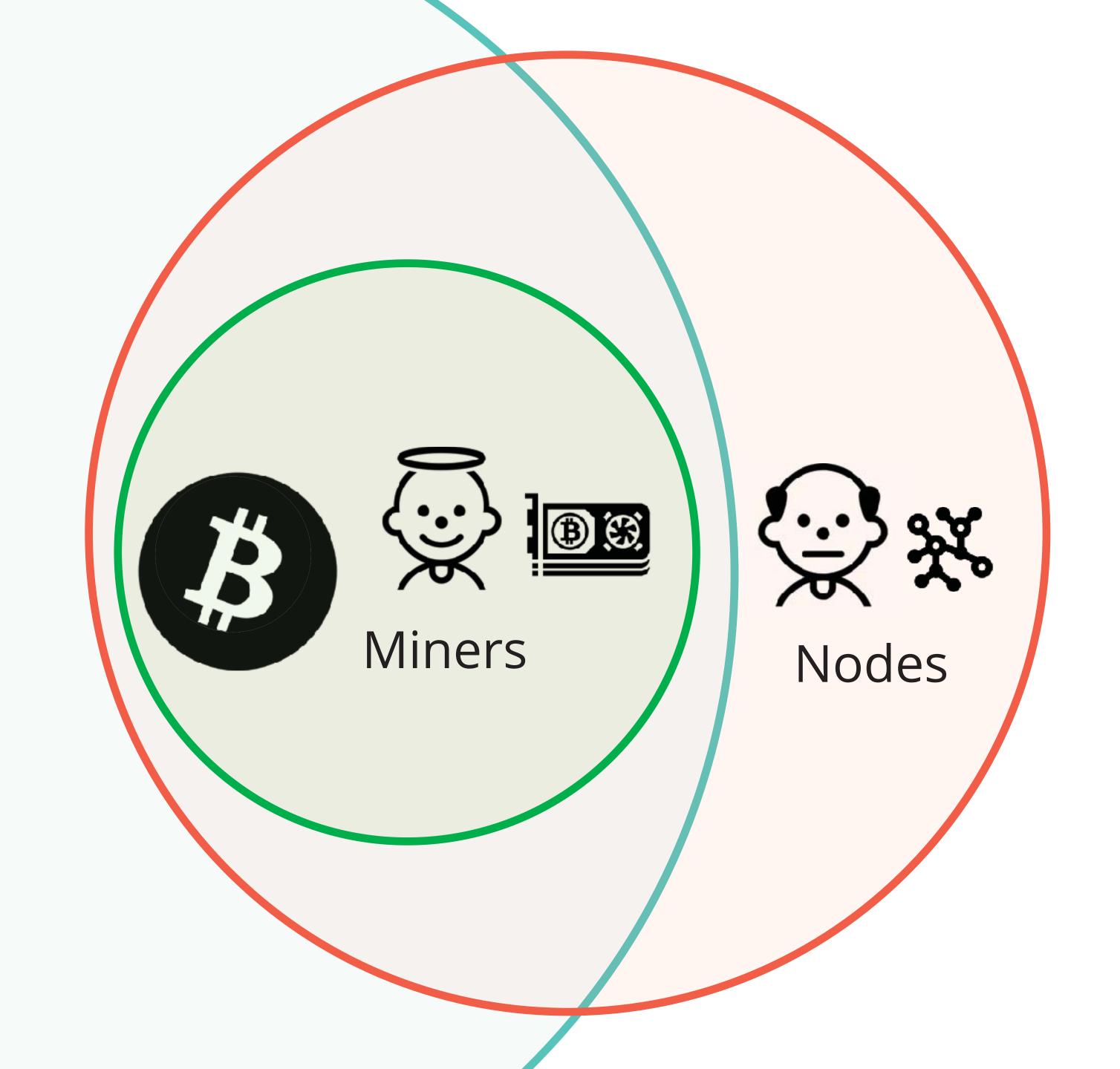








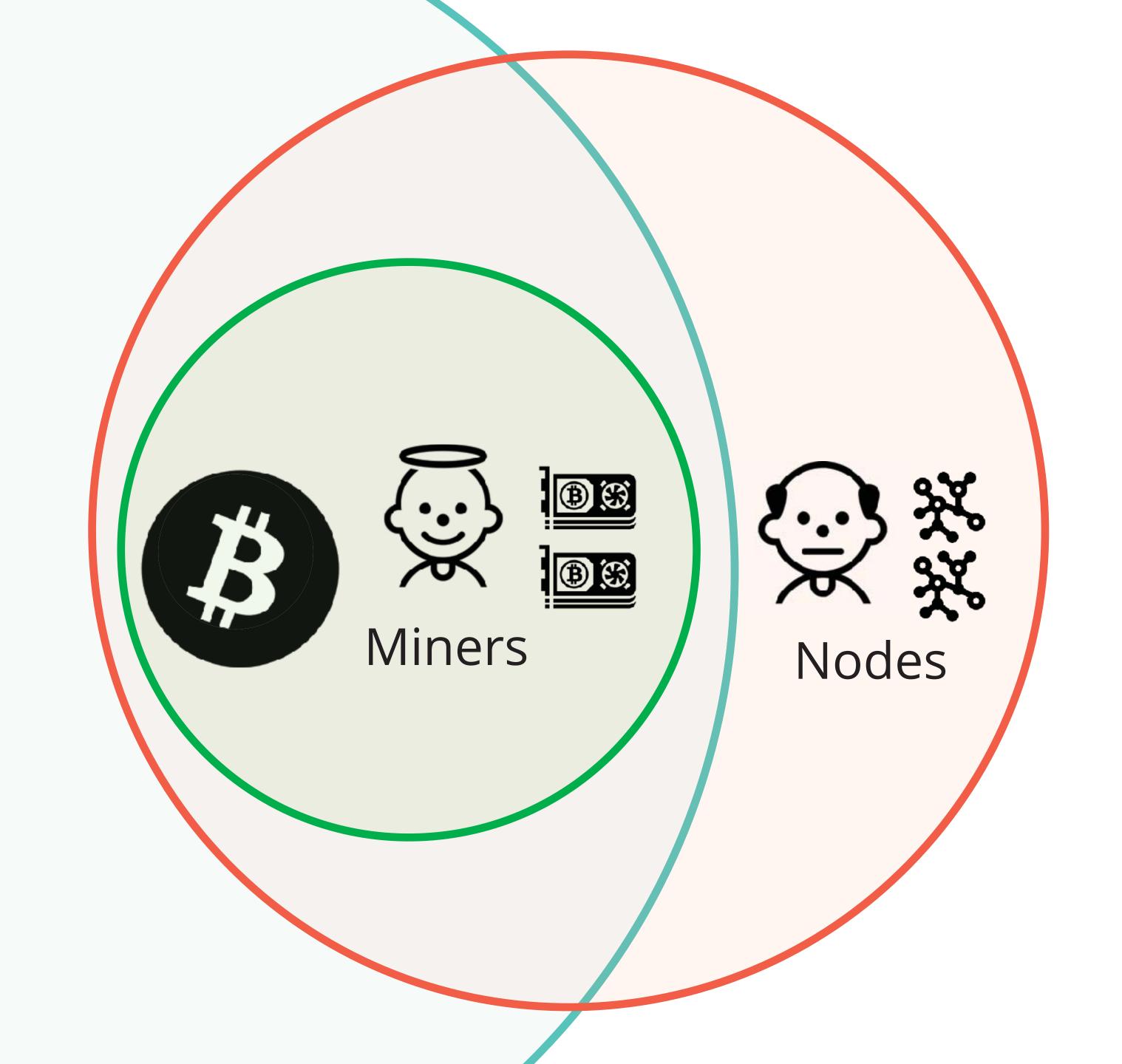
Bitcoin holders





Bitcoin &

Bitcoin Cash holders

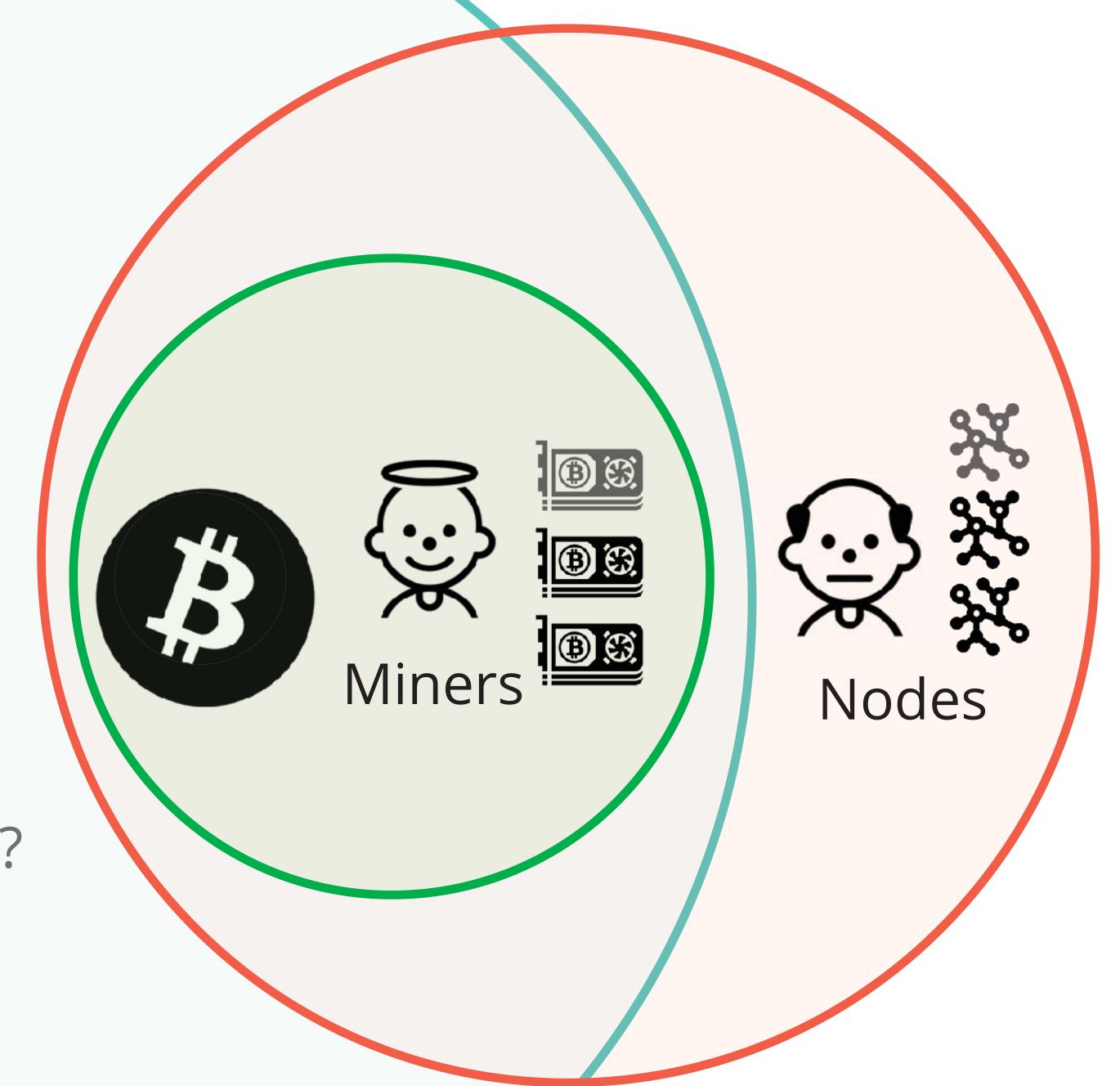




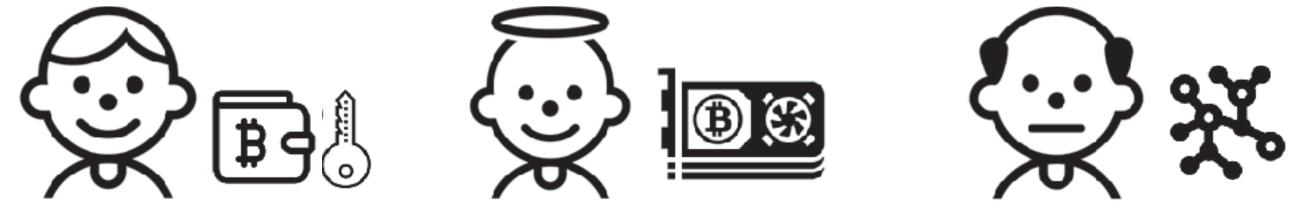
Bitcoin &

Bitcoin Cash &

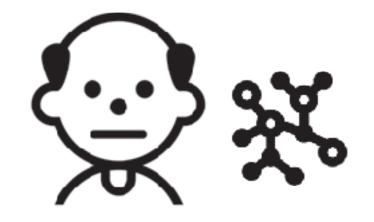
Bitcoin Segwit2X holders?



What do these groups want?







Internal actors



Protecting & increasing the value of their bitcoins

Not having to rely on an trusted third party to manage their money

Making bitcoin more useful as a currency

(So they can more easily spend it and it becomes worth more because of the network effect)

Internal actors



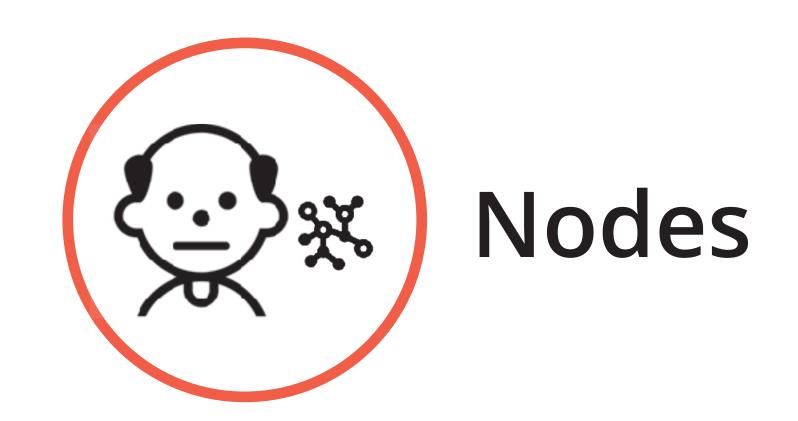
Using their hardware to make as much profit as possible

Making sure they make a return on their investment (Hardware, electricity contracts, other infrastructure)

Securing the network

(to make sure they can keep selling bitcoin at the highest price possible)

Internal actors



Checking if a transaction is valid without having to wait for miners to confirm it and write it to the blockchain. (For example to know if a customer paid you or not)

Run by exchanges, service providers, retail businesses

Allows owners to not have to trust the rest of the network.



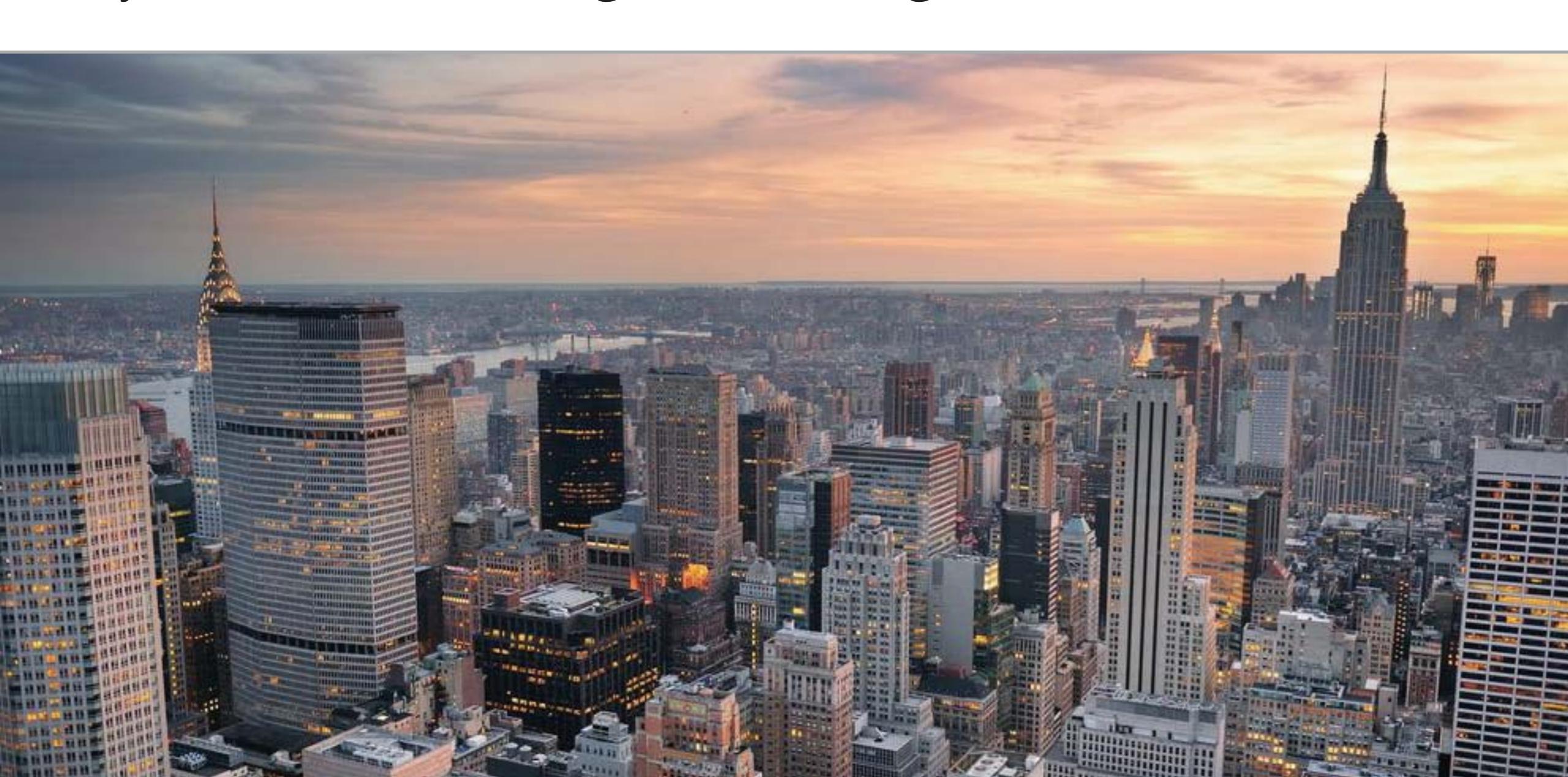


What about the other Bitcoin?

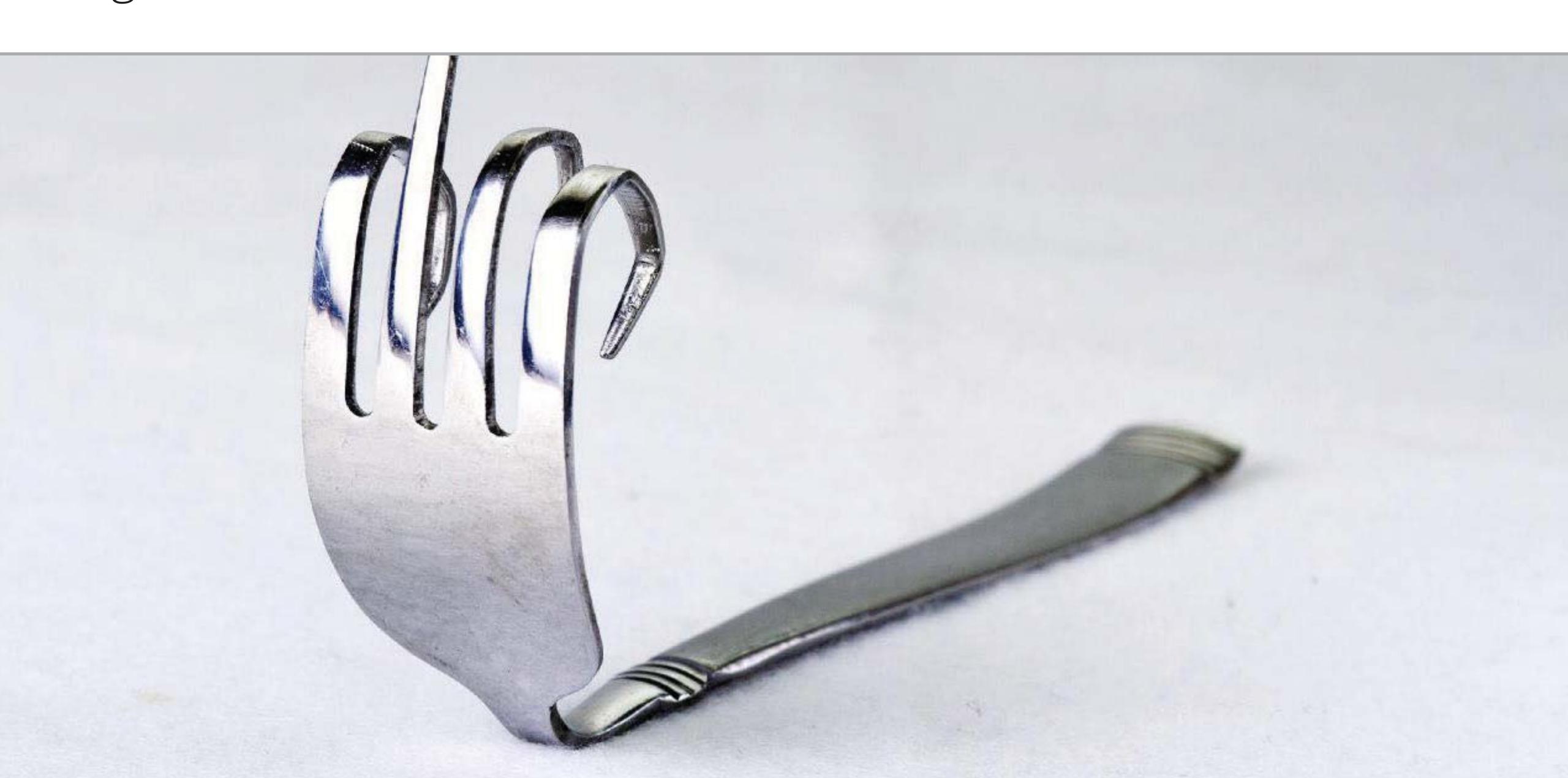
The hardfork is result of an attempt to solve a problem:

Bitcoin has become slower and move expensive to use.

May 2017 New York agreement (Segwit2X)



Aug 1st Bitcoin Cash Hardfork



Bitcoin & Bitcoin Cash want to achieve the same things.

A fast network that can handle many transactions.

But in a different way..

Bitcoin (Core)

Create secondary off-chain settlement layer (called the lightning network), which requires fewer on chain transactions when transaction through put slows down.

This will reduce network congestion.

Bitcoin Cash

Increase blocksize (amount of transactions that can be mined per block), when transaction through put slows down.

This will reduce network congestion.

Technical differences

Bitcoin (Core)

'Small blocks'

Off chain scaling

Slow & expensive

Currently has market support

Bitcoin Cash

'Big blocks'

On chain scaling

Fast & inexpensive

Currently does not have market support

1 BTC = \$4600 on Aug 31st '17

1 BCH = \$577.5 on Aug 31st '17

Advantages of each approach

Bitcoin (Core)

Segwit (Segregated witness), the technology required to run the lightning network is already implemented and running on Litecoin, Viacoin & Syscoin.

Segwit prevents third-party and scriptSig malleability by allowing Bitcoin users to move the malleable parts of the transaction into the *transaction witness*.

Bitcoin Cash

Increasing the blocksize did immediately lower transaction fees to a few \$ cents per transaction.

Blocksize can be easily increased again in the future if needed.

Challenges with each approach

Bitcoin (Core)

The lightning network is far from being ready to launch while scaling is needed now.

Economic incentives of the lightning network layer are not yet tested to be secure from a game theoretic perspective.

Bitcoin Cash

Larger blocks will lead to larger blockchain file size and more computing power required to validate blocks (for Nodes)

This will lead to mining and node centralization.

Which Bitcoin will survive?

The chain which succeeds best at:

Increasing transaction speed
Increasing adoption
Increasing investor confidence
Reducing transaction costs

Aug 23rd BIP 91: SegWit activation



Nov 1st Segwit2x Hardfork



But the Bitcoin ecosystem is not a democracy.

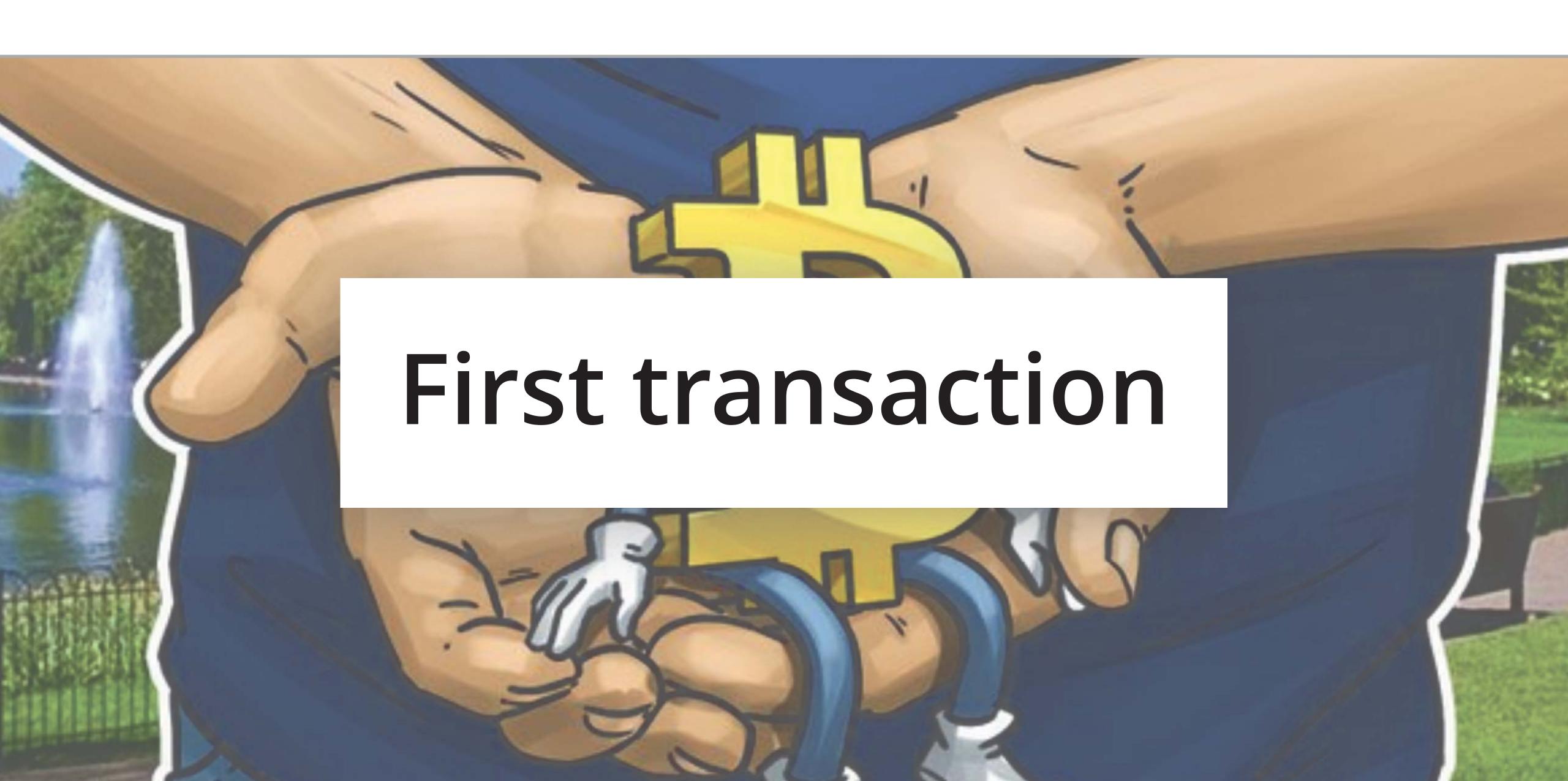
It's a meritocracy in which the market decides value

- Coinholders vote by keeping or selling their Bitcoin (BTC) or Bitcoin Cash (BCH)
- Miners vote by mining BTC or BCH.
- Node operators vote by running BTC or BCH node software.
- Businesses vote by accepting BTC or BCH.

Notable events in the history of bitcoin

Satoshi Nakamoto

Abstract. A purely peer-to-peer version of electronic cash would allow online payments to be sent directly from one party to another without going through a financial institution. Digital signatures provide part of the solution, but the main benefits are lost if a trusted third party is still required to prevent double-spending. We propose a solution to the double-spending problem using a peer-to-peer network.



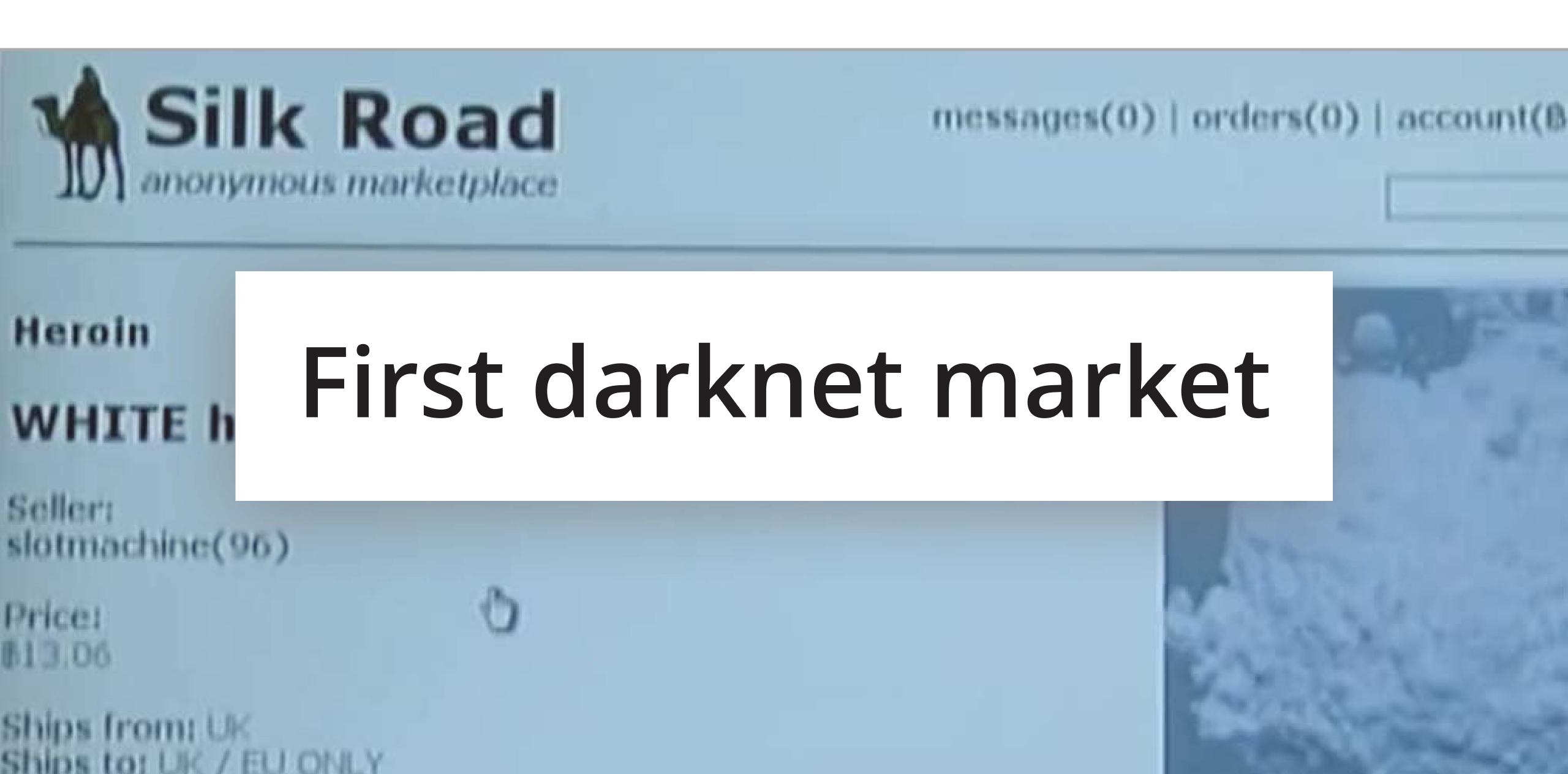
Feb 5, 2010

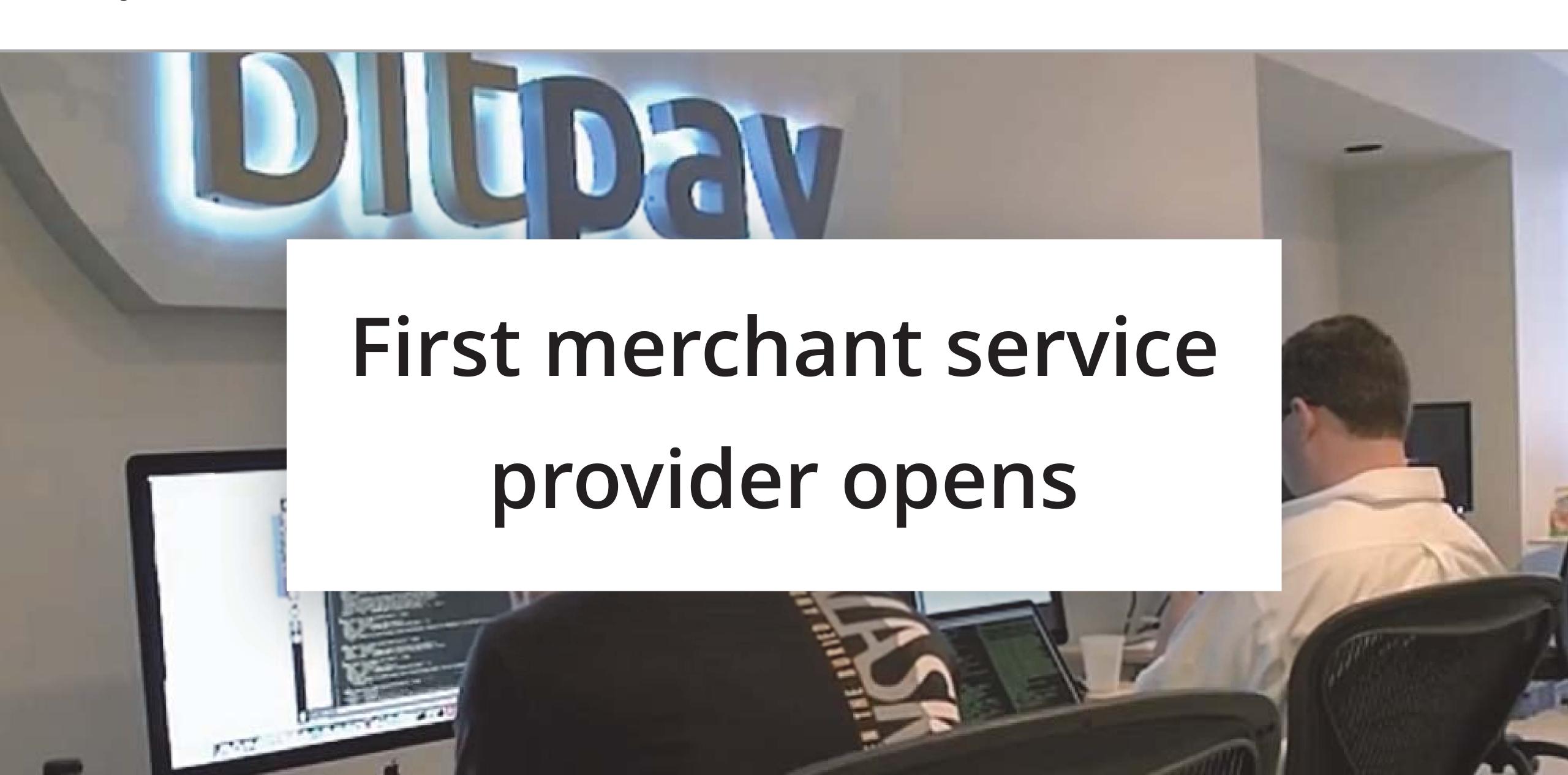


Pair Last Change* Volume*
*Based on the last 24 hours

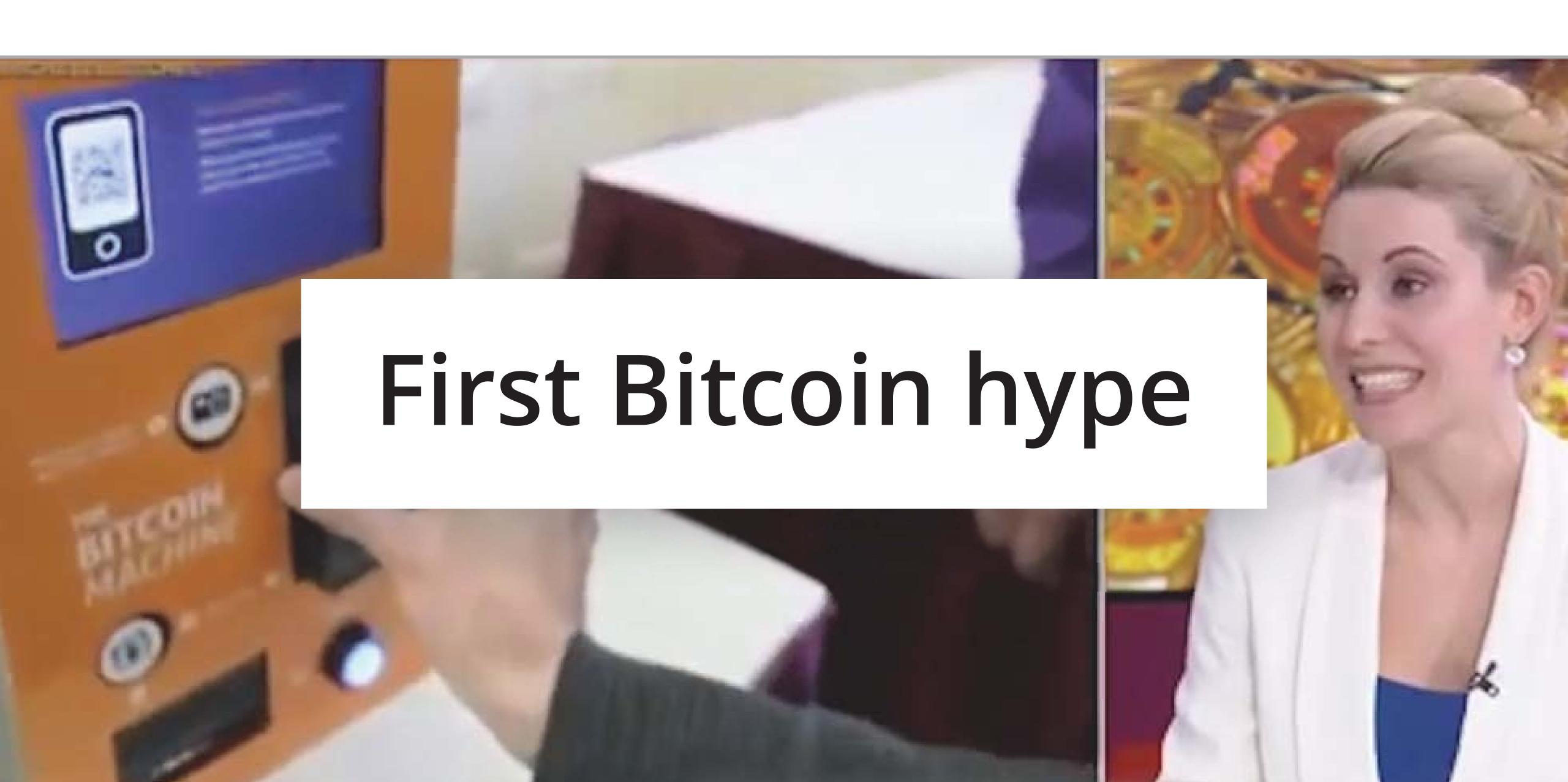


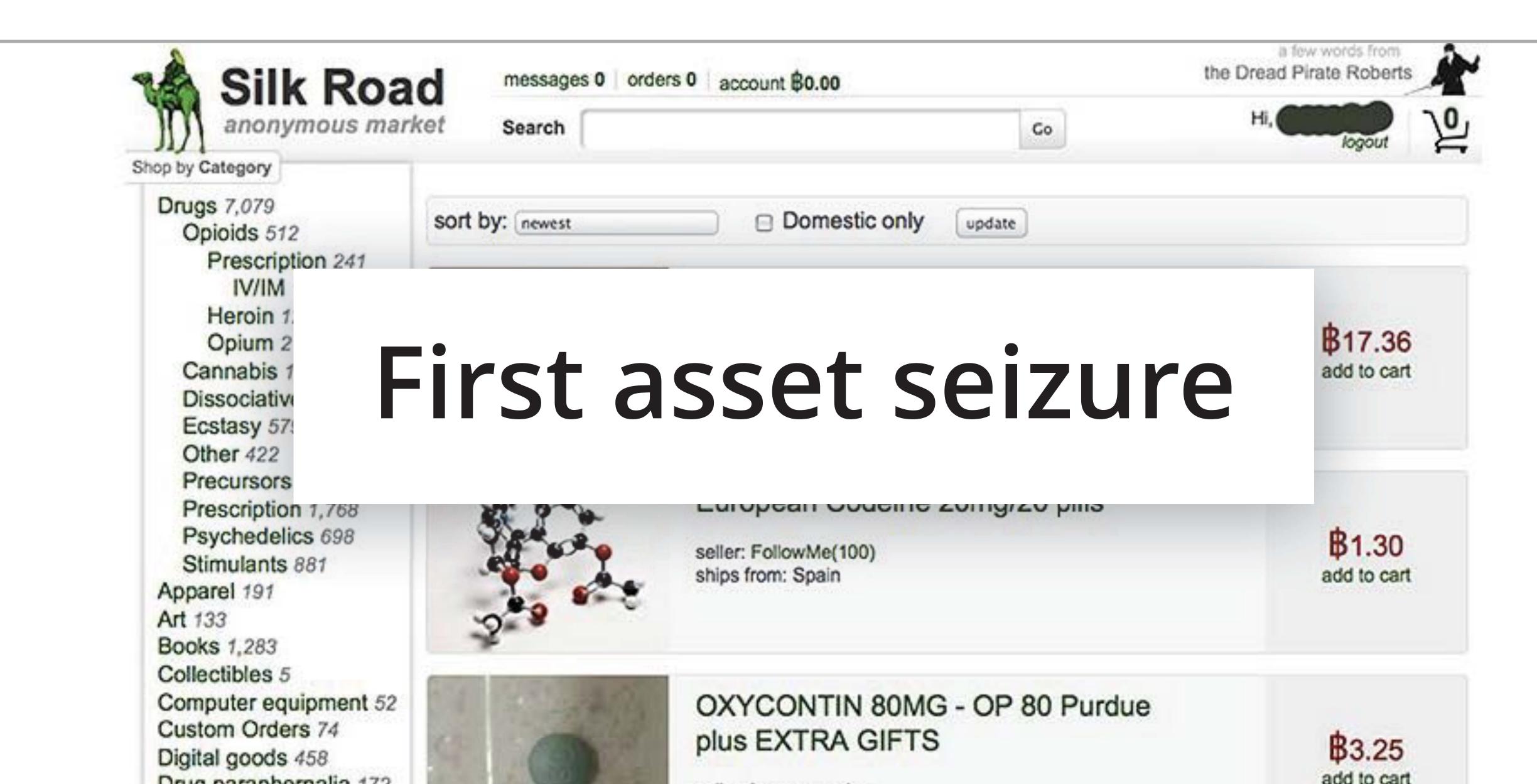




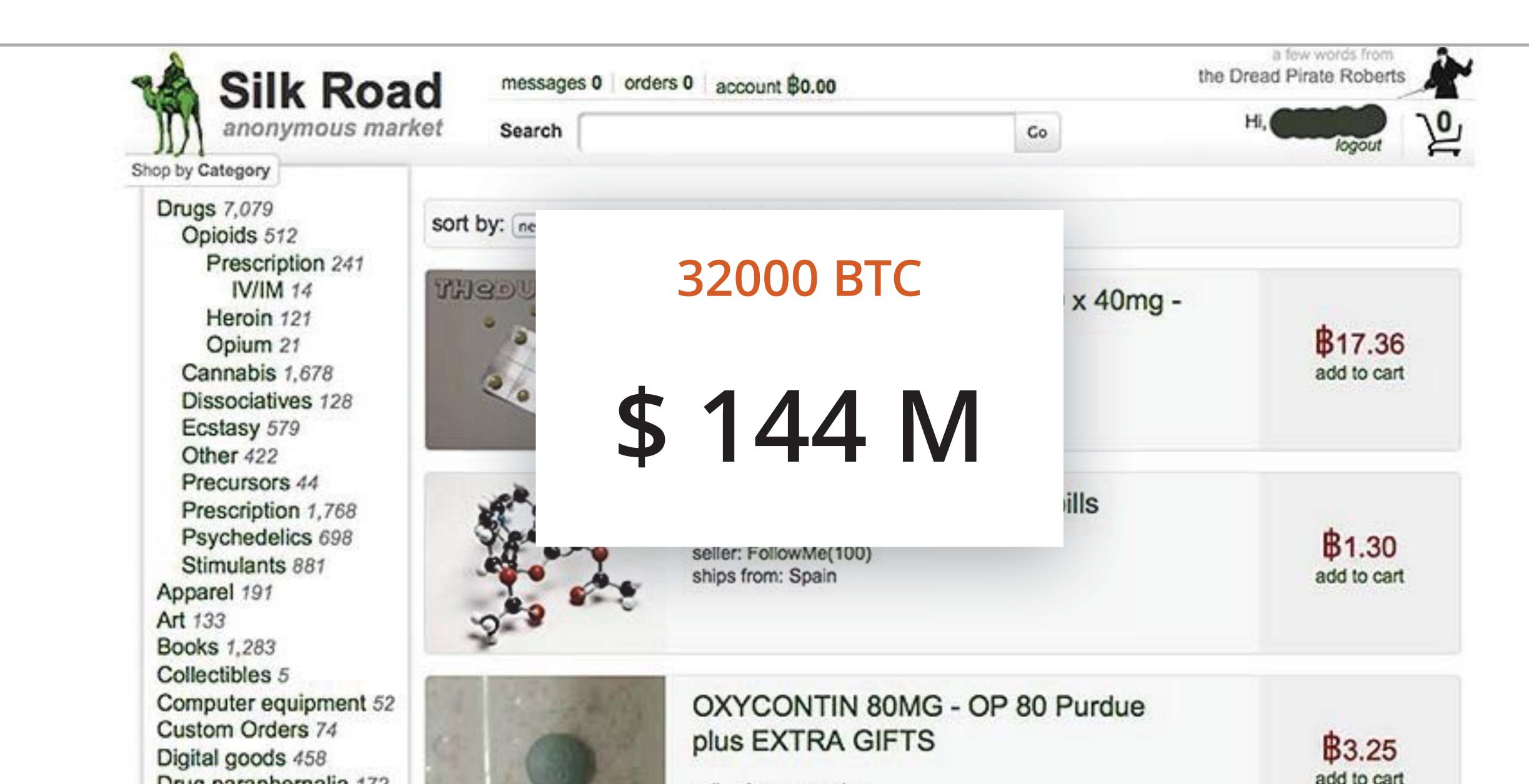


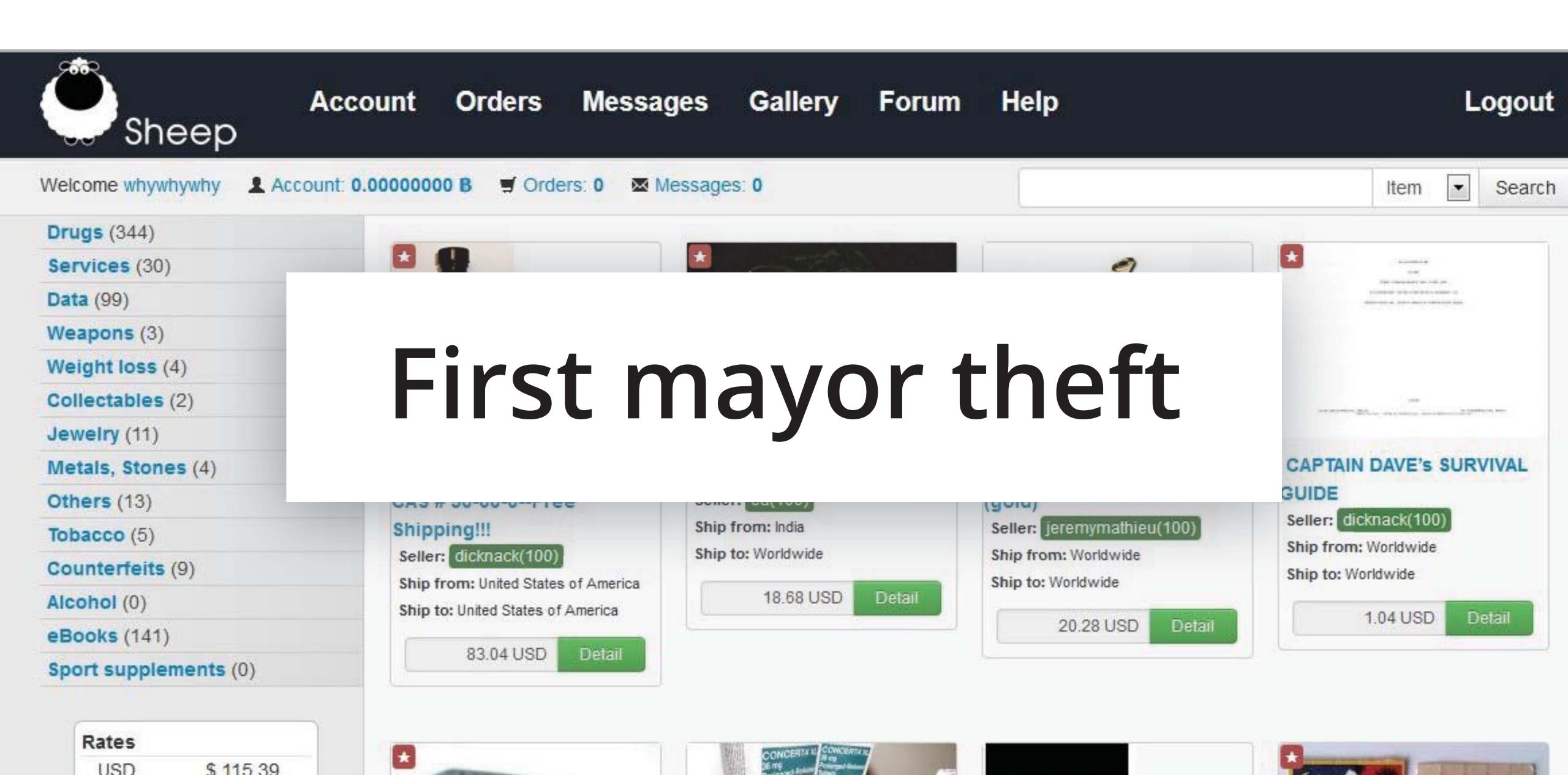




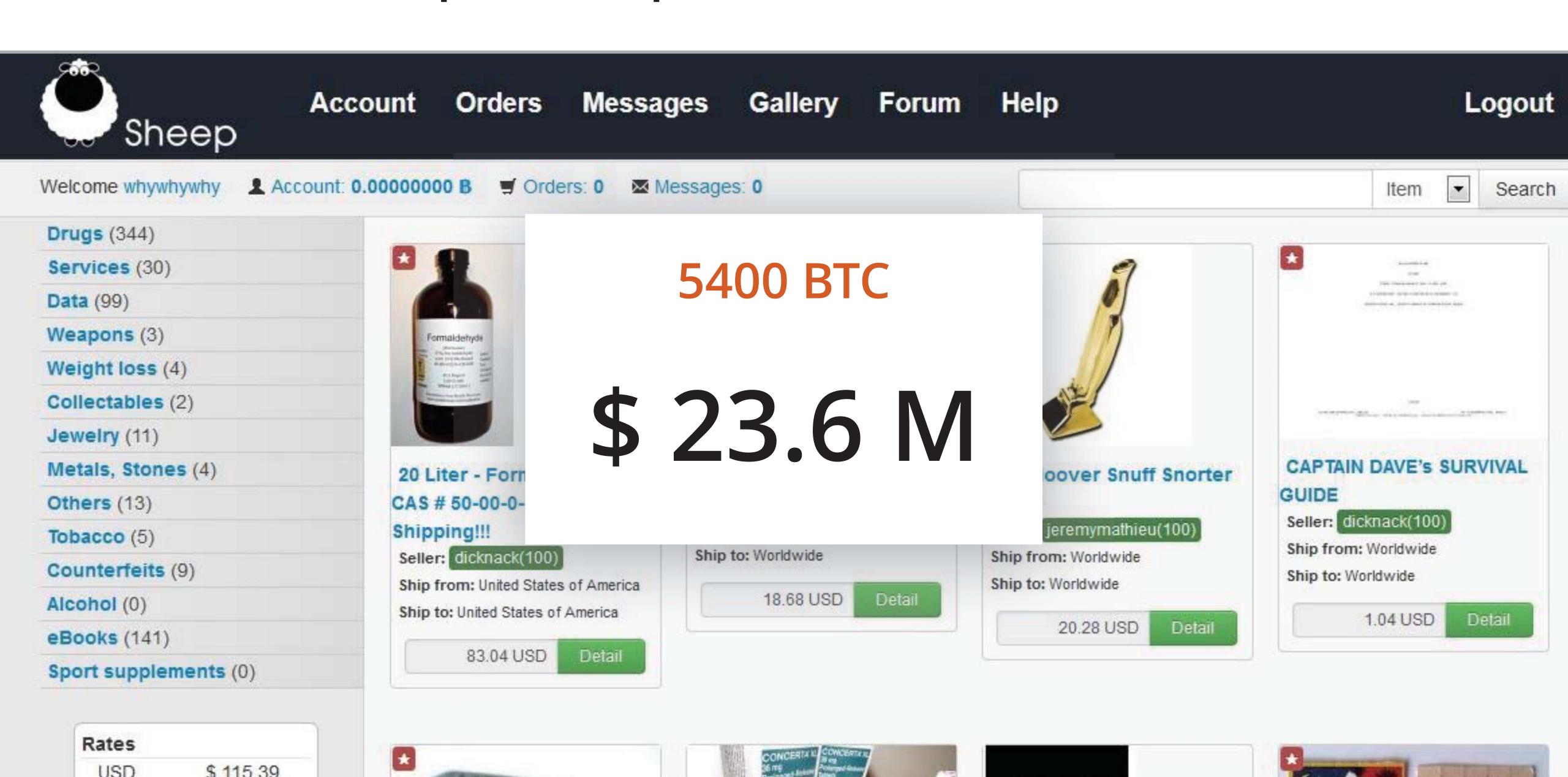


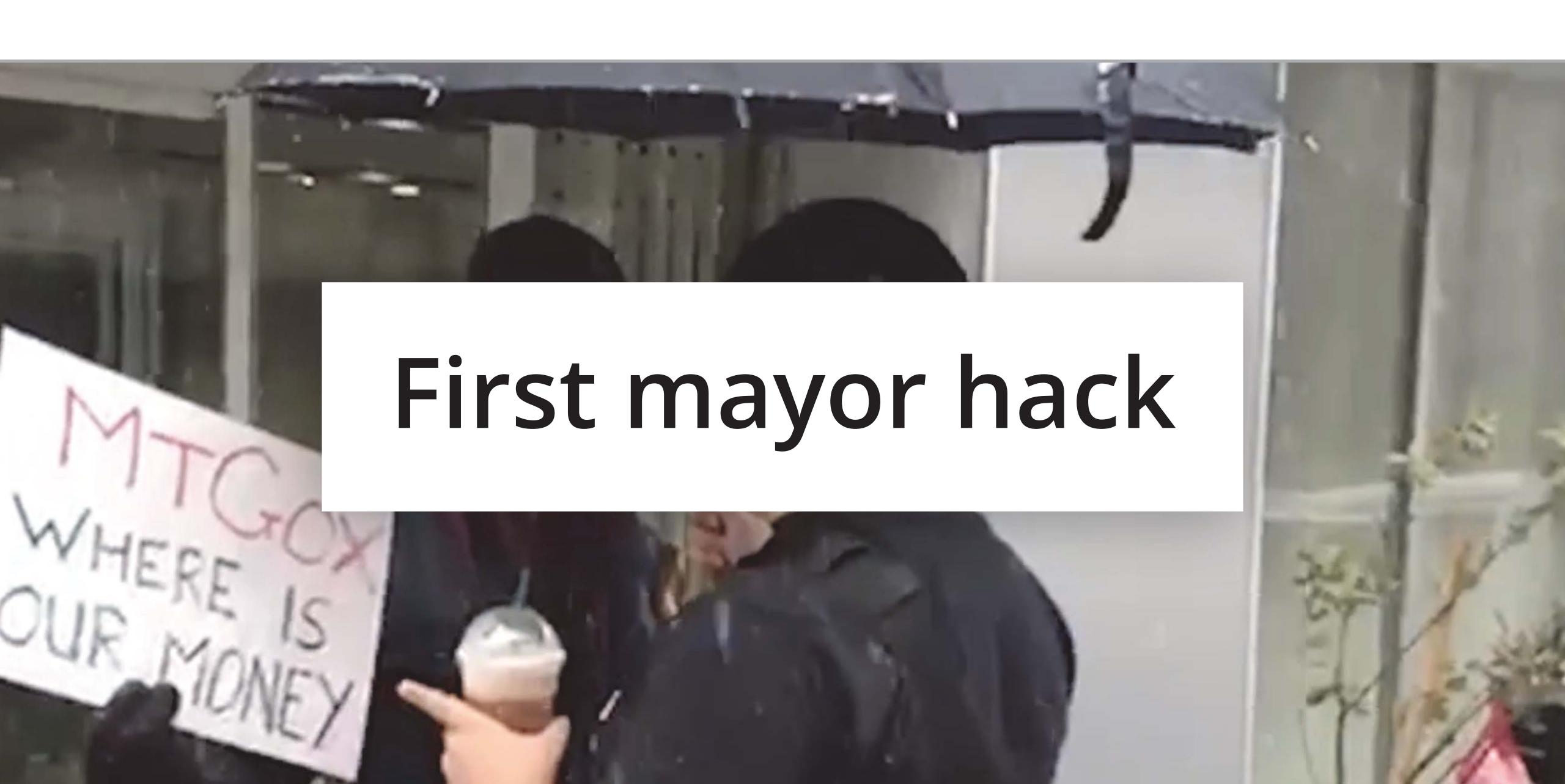
Oct 2, 2013 SilkRoad 1 seizure



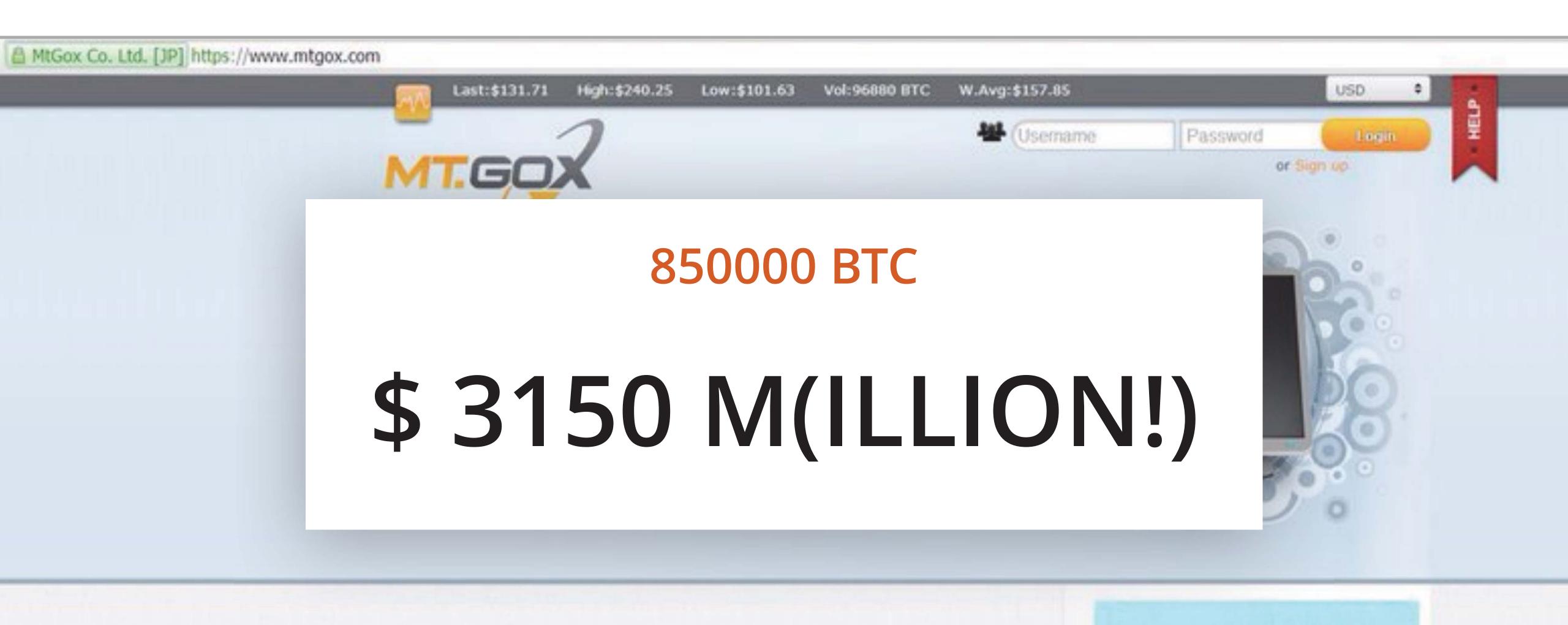


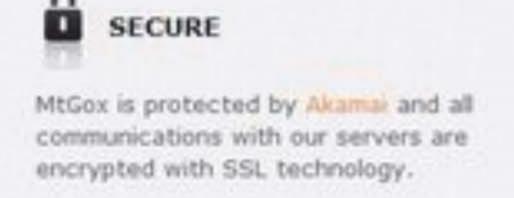
Dec 2013 Sheep Marketplace theft





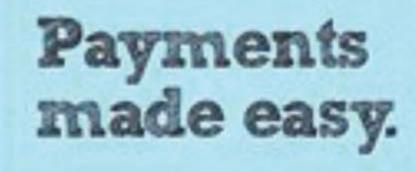
Feb 2014 Mt. Gox hack







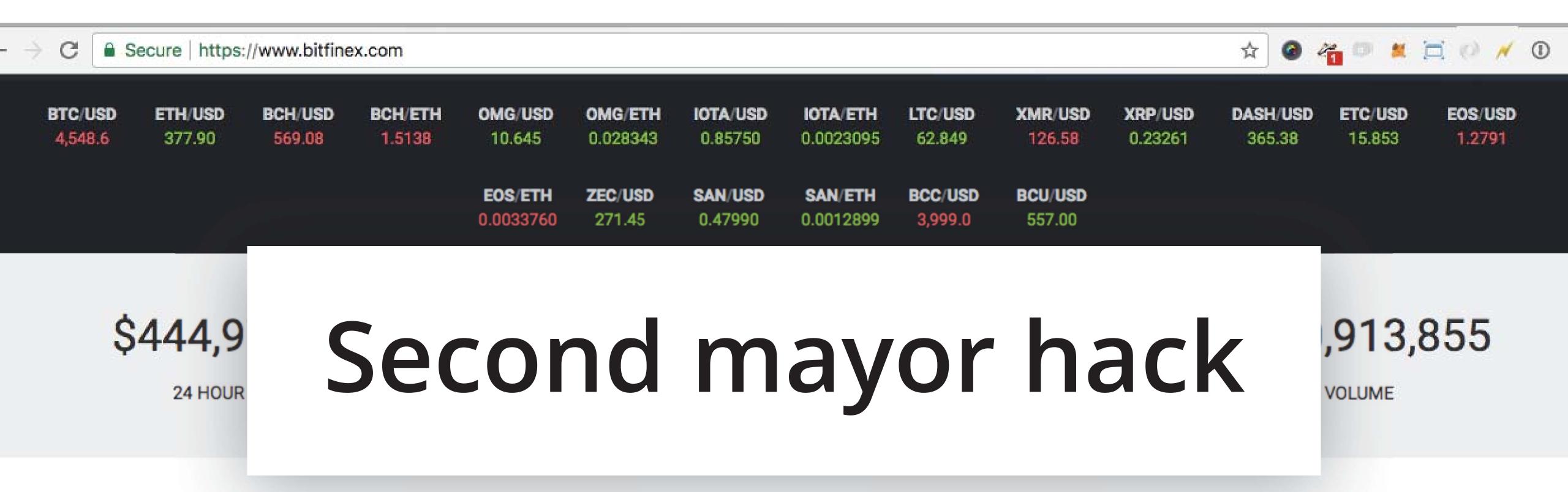
We're always on. Buy and sell Bitcoin 24/7/365 with the world's most sophisticated trading



· Add MtGox



Aug 2, 2016



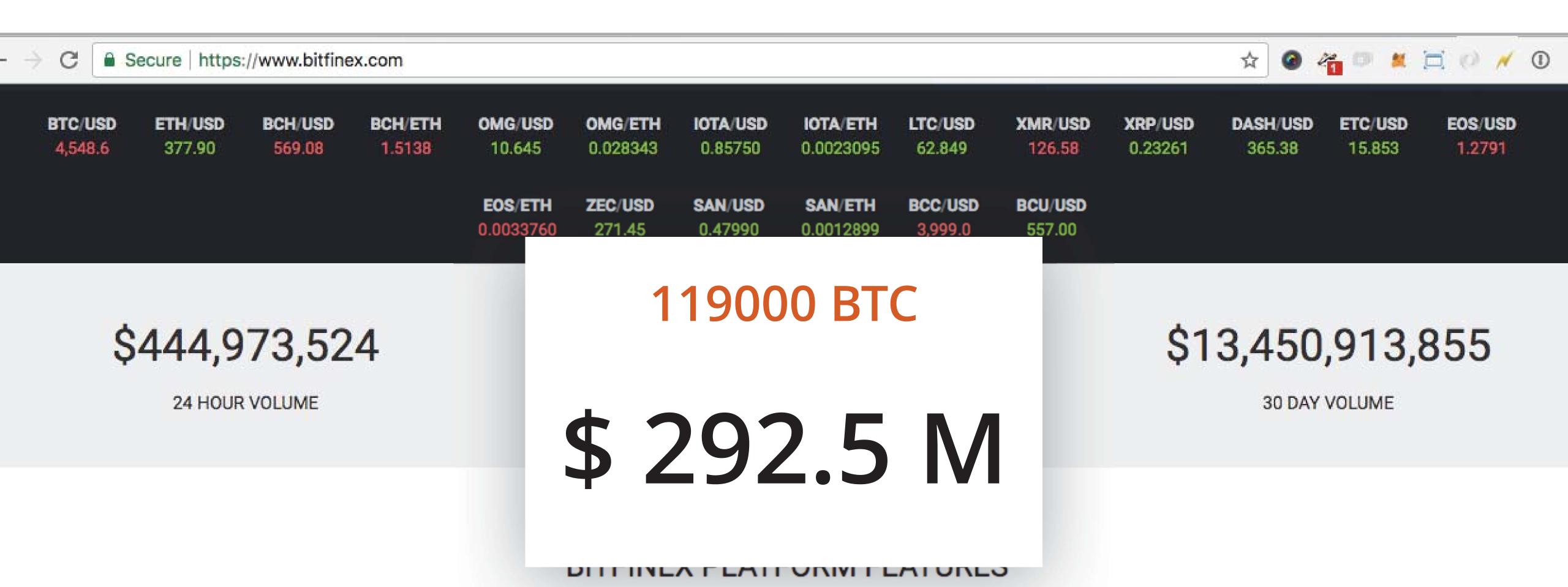
BITFINEX PLATFORM FEATURES

Bitfinex is a full-featured spot trading platform for the major cryptocurrencies such as Bitcoin, Ethereum, Bcash, OmiseGO, Iota, Litecoin, Monero, Ripple, Dash, Ethereum Classic, EOS, Zcash, and Santiment. The platform offers leveraged margin trading through our peer-to-peer funding market.

Manain Tuadina

Evolundo

Aug 2, 2016 Bitfinex hack



Bitfinex is a full-featured spot trading platform for the major cryptocurrencies such as Bitcoin, Ethereum, Bcash, OmiseGO, Iota, Litecoin, Monero, Ripple, Dash, Ethereum Classic, EOS, Zcash, and Santiment. The platform offers leveraged margin trading through our peer-to-peer funding market.

- Morgin Trading

July 2017 Bitcoin available in Norway via an ATM.











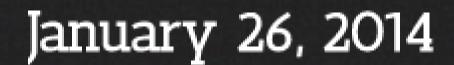




History Of Bitcoin

Embed this on your site

Get updates



2011

BitInstant CEO charged with money laundering

Charlie Shrem, CEO of BitInstant is arrested over allegations of money laundering in connection with Silk Road. He is arrested at JFK airport for charges filed in a Manhattan federal court.

MAG 0164 Approved:

2013

Assistant United States Attorney

Before: HONORABLE MICHAEL H. DOLINGER United States Magistrate Judge Southern District of New York

UNITED STATES OF AMERICA

- v. -

ROBERT M. FAIELLA, a/k/a "BTCKing," and CHARLIE SHREM,

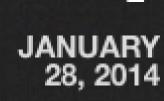
Defendants.

SEALED COMPLAINT

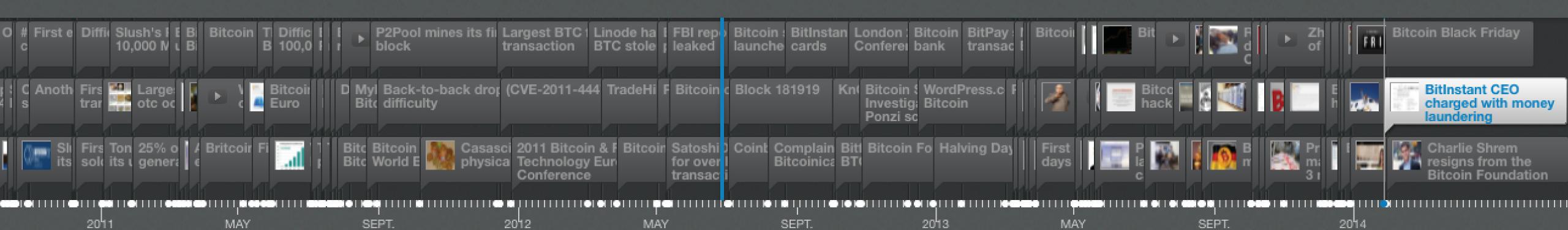
Violations of 18 U.S.C. §§ 1960 & 1956; 31 U.S.C. §§ 5318(g) & 5322(a)

COUNTY OF OFFENSE: NEW YORK

2014



Charlie Shrem resigns from the Bitcoin Foundation



2012

Too much things to talk about!

51% Attacks
User Activated Softfork

Ransomware Other darknet market hacks

Ethereum Hardfork Censorship

Dao Hack 'ICO's

Monetary policy Anonymous currencies

Mikrobank is looking for business partners

Contact firmapost@mikro-bank.no

Or approach me after the talk.

Thanks for your interest!