

What is Bitcoin?

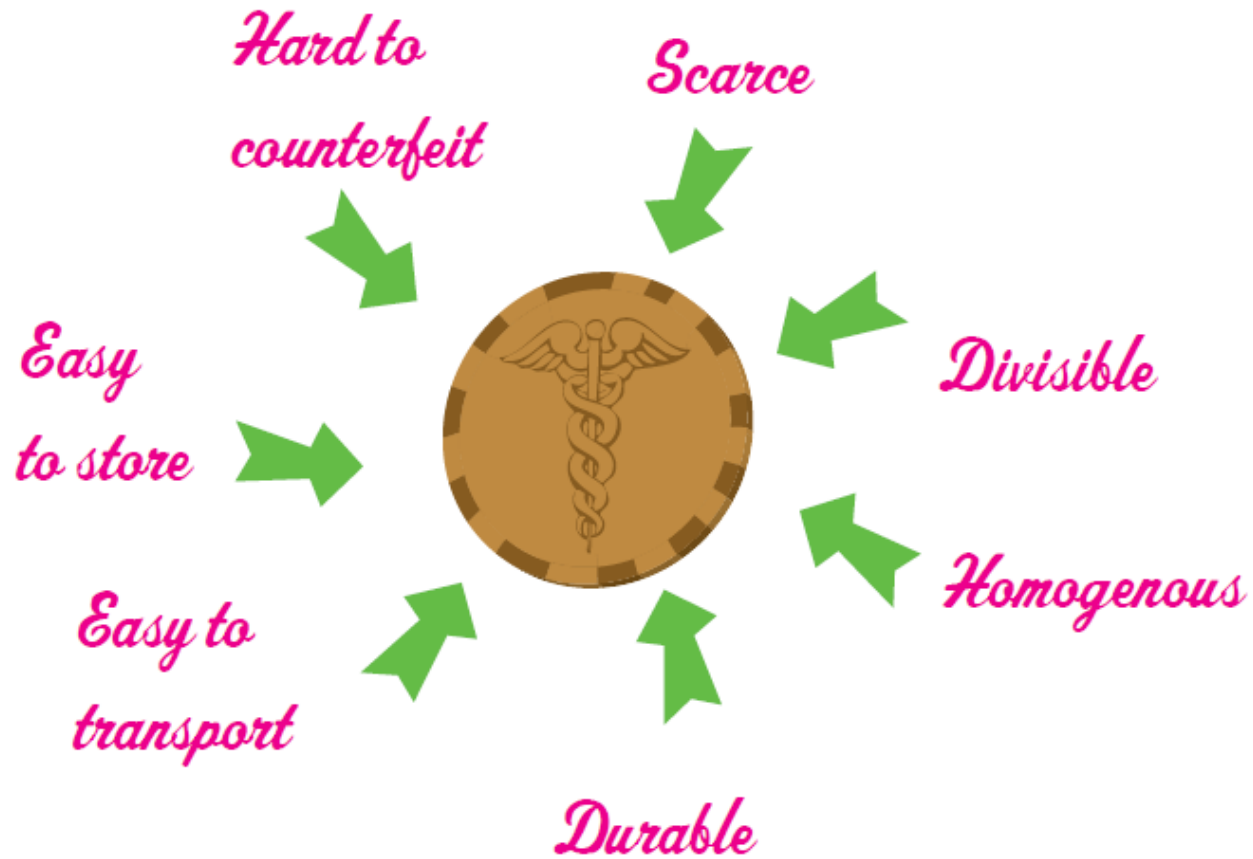


Bitcoin: A Peer-to-Peer Electronic Cash System

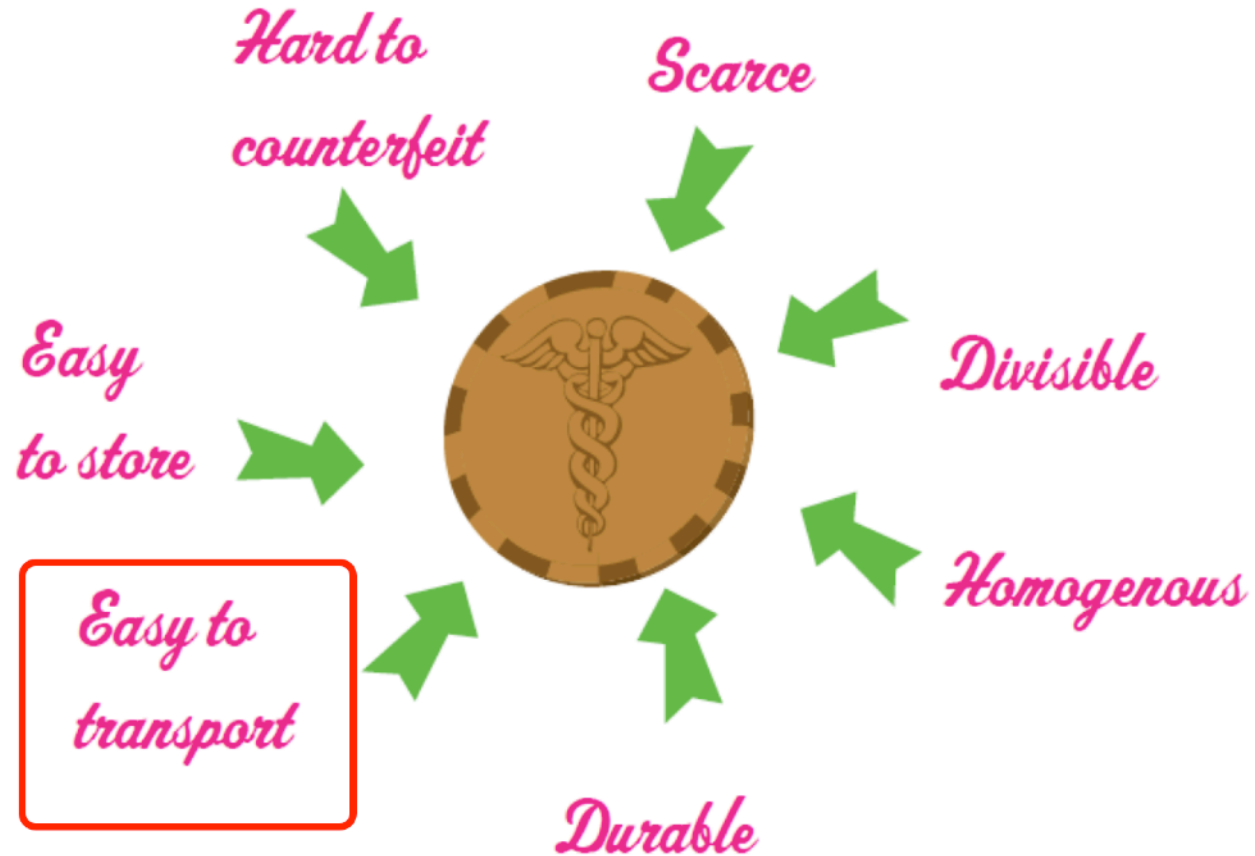
Satoshi Nakamoto
satoshin@gmx.com
www.bitcoin.org

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. The network timestamps transactions by hashing them into an ongoing chain of hash-based proof-of-work, forming a record that cannot be changed without redoing the proof-of-work. The longest chain not only serves as proof of the sequence of events witnessed, but proof that it came from the largest pool of CPU power. As long as a majority of CPU power is controlled by nodes that are not cooperating to attack the network, they'll generate the longest chain and outpace attackers. The network itself requires minimal structure. Messages are broadcast on a best effort basis, and nodes can leave and rejoin the network at will, accepting the longest proof-of-work chain as proof of what happened while they were gone.

Good Money



Good Money

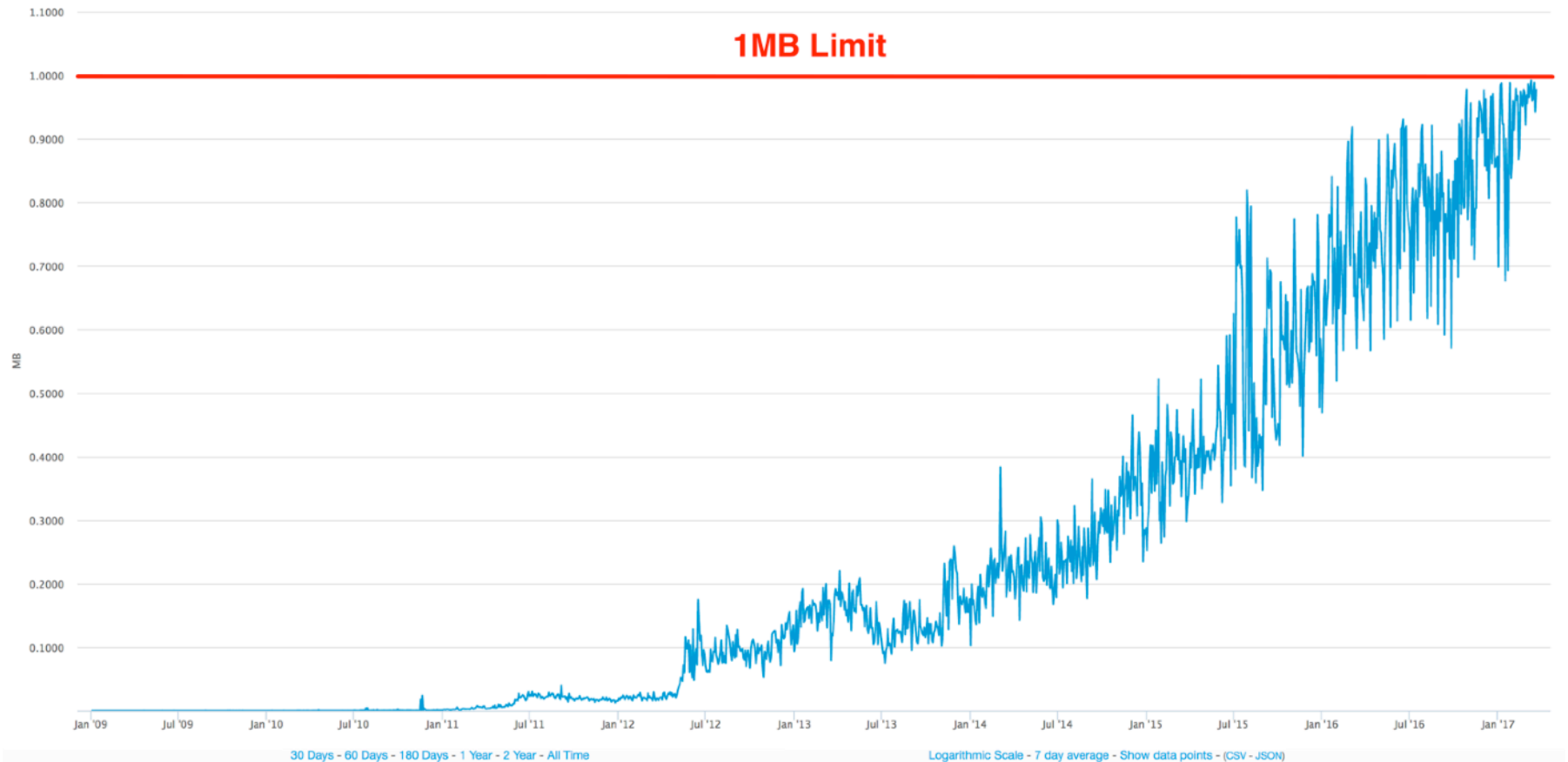


This is being damaged by Core

Average Block Size

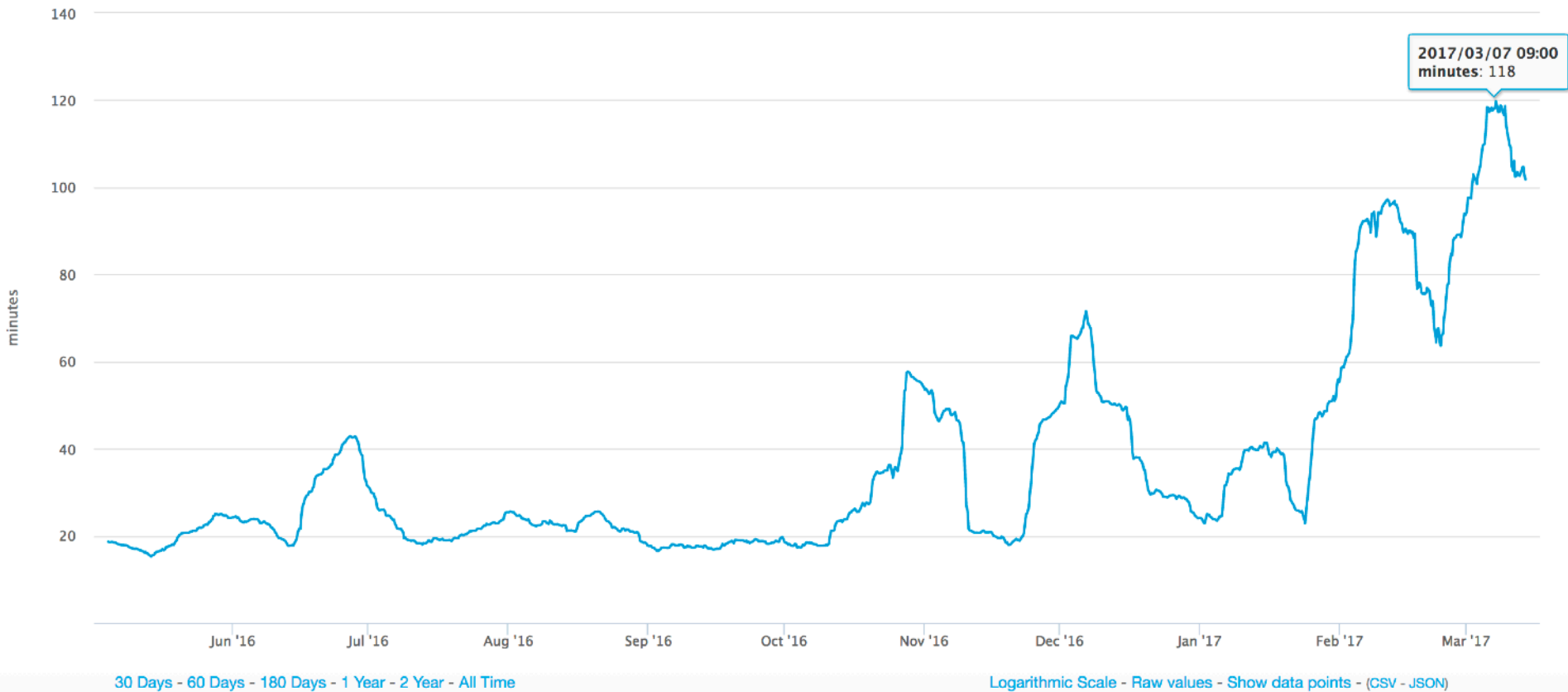
The average block size in MB.

Source: blockchain.info



Average Confirmation Time

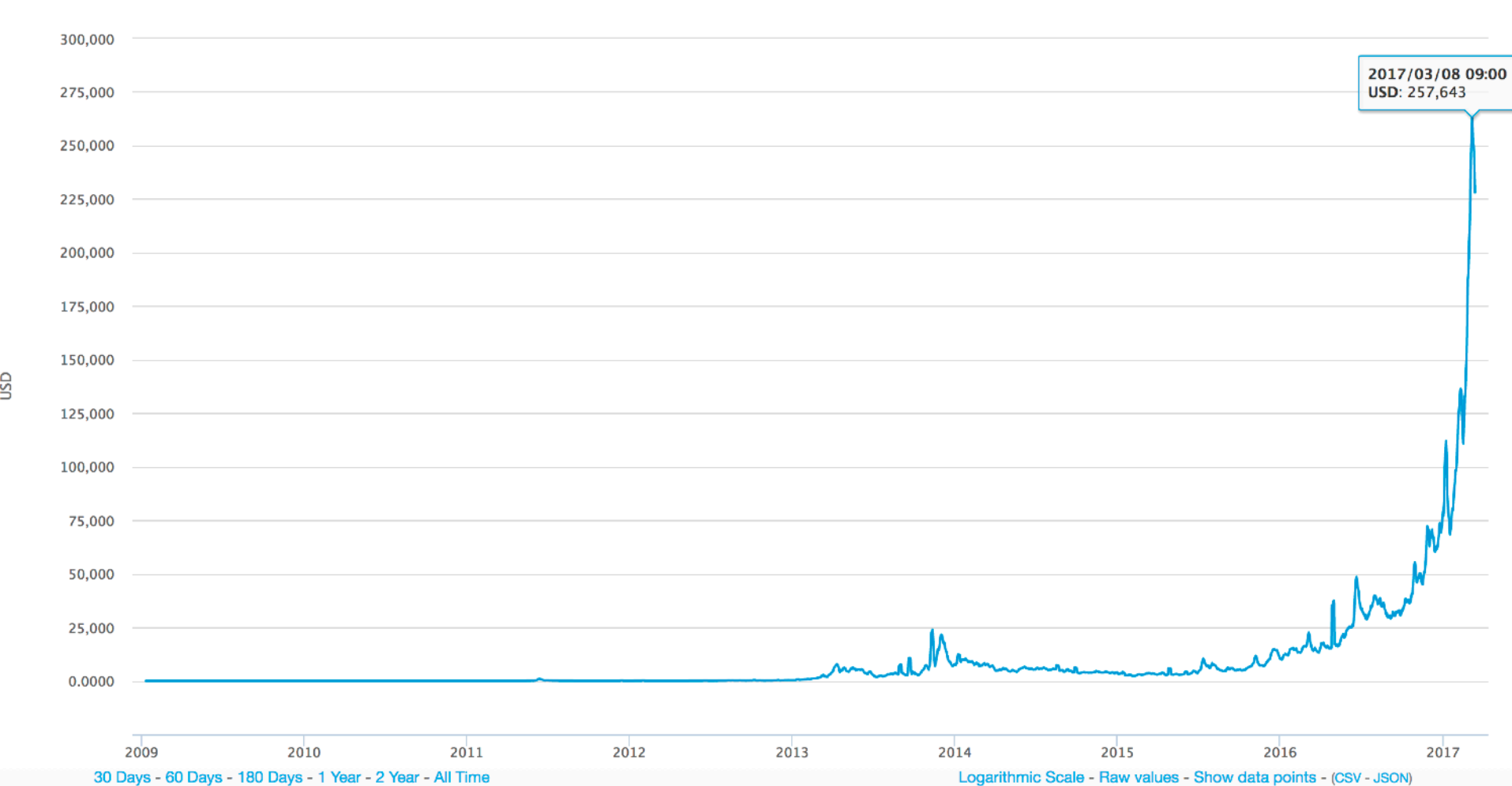
Source: blockchain.info



Total Transaction Fees in USD

The total value of all transaction fees paid to miners (not including the coinbase value of block rewards).

Source: blockchain.info



Bitcoin Percentage of Total Market Capitalization

Zoom 1d 7d 1m 3m 1y YTD **ALL**

From Apr 28, 2013 To Mar 27, 2017 

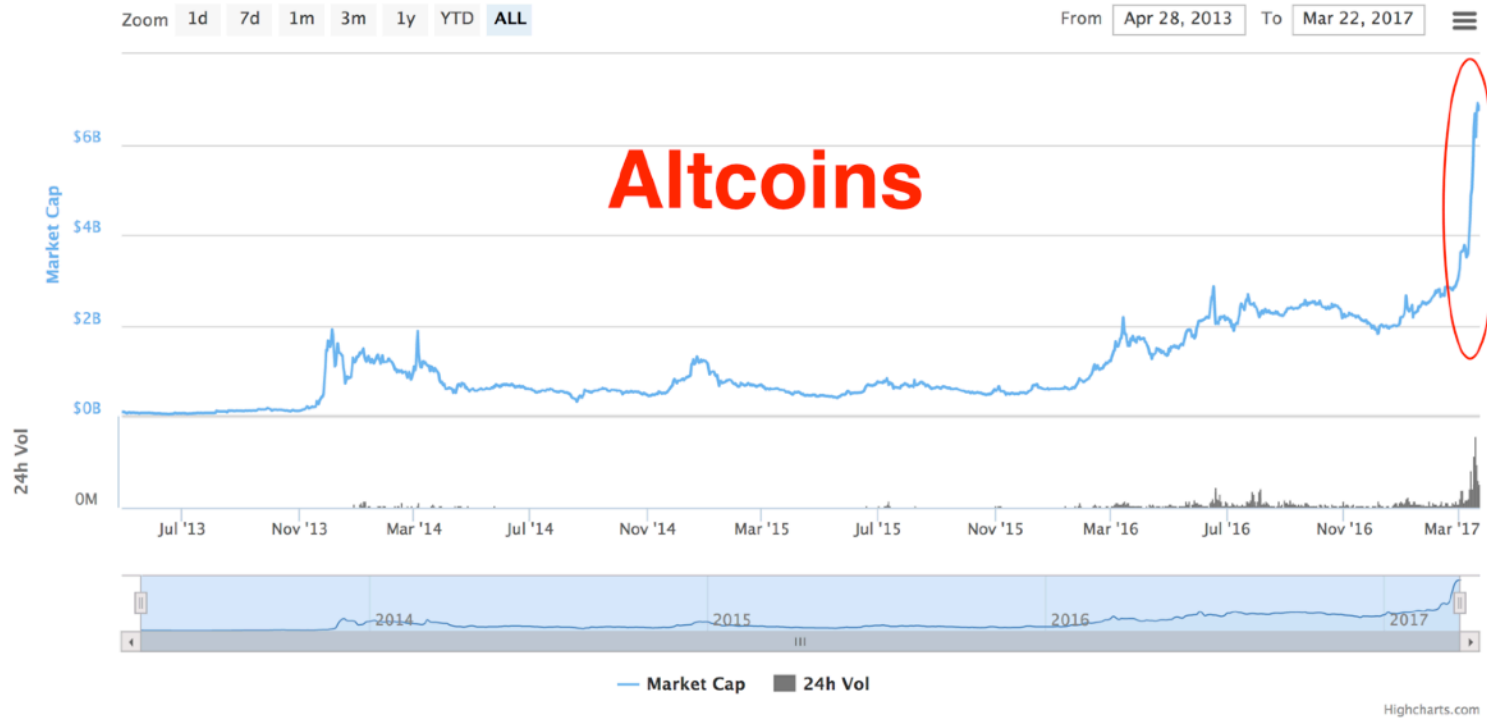


Substitute Goods

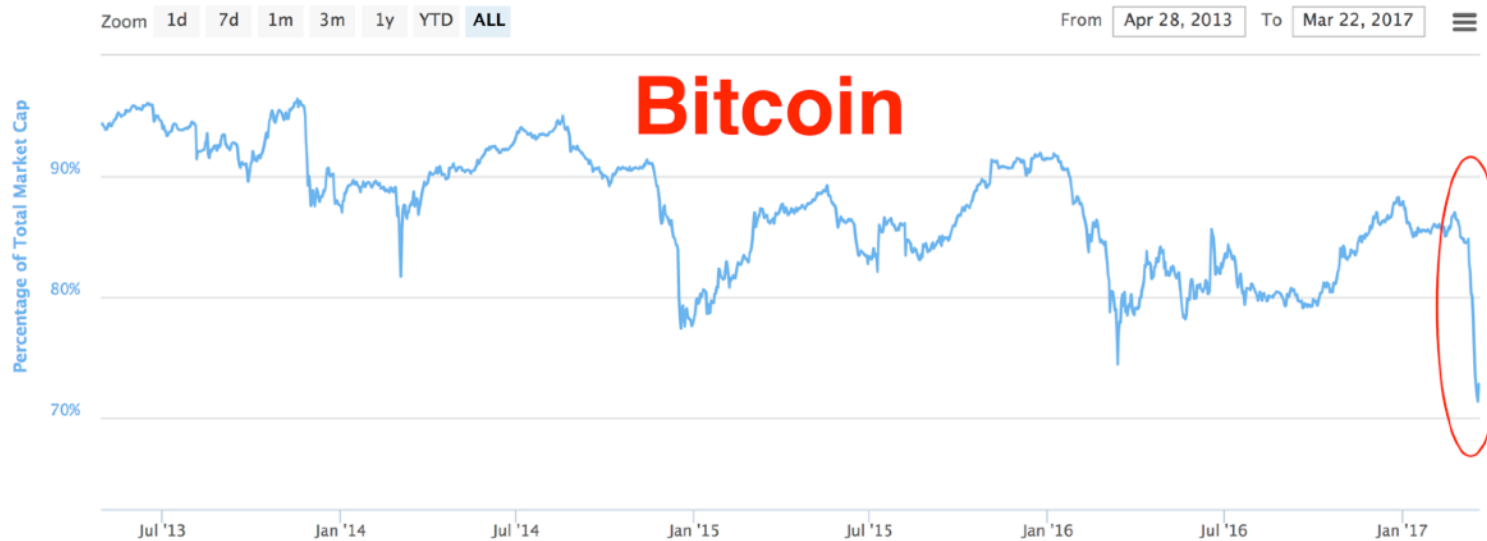
Definition of substitute goods.

- Substitute goods are two goods that could be used for the same purpose.
- If the price of one good increases, then demand for the substitute is likely to rise.

Combined Altcoin Market Capitalization



Bitcoin Percentage of Total Market Capitalization





Bitcoin **Core**



Blockstream

Bitcoin Core and Blockstream

Advocate for 1MB Blocks
to intentionally create
High Fees
&
Full Blocks



Full Blocks lead to
High Fees
Long Waits
Horrible User Experience



This will result in
Fewer Users
Fewer Nodes
Lower Adoption
Lower Bitcoin market cap

If you get the economics wrong

It doesn't matter how good of a
programmer you are.



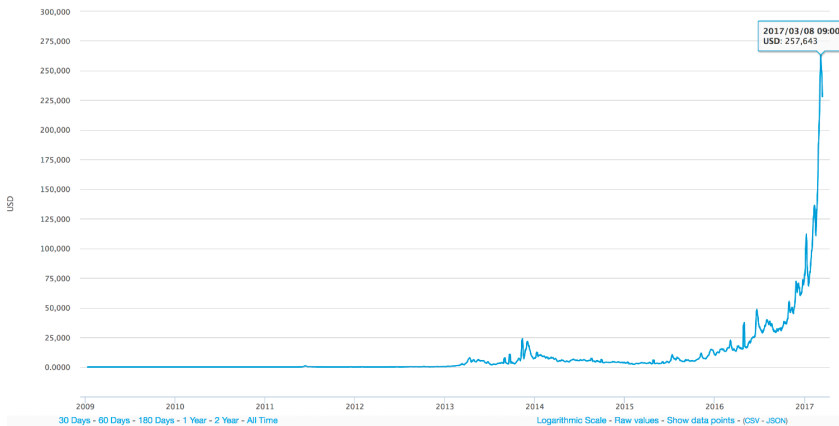
Greg Maxwell, CTO

“I don't think that transaction fees mattering is a failing-- it's success!”

Total Transaction Fees in USD

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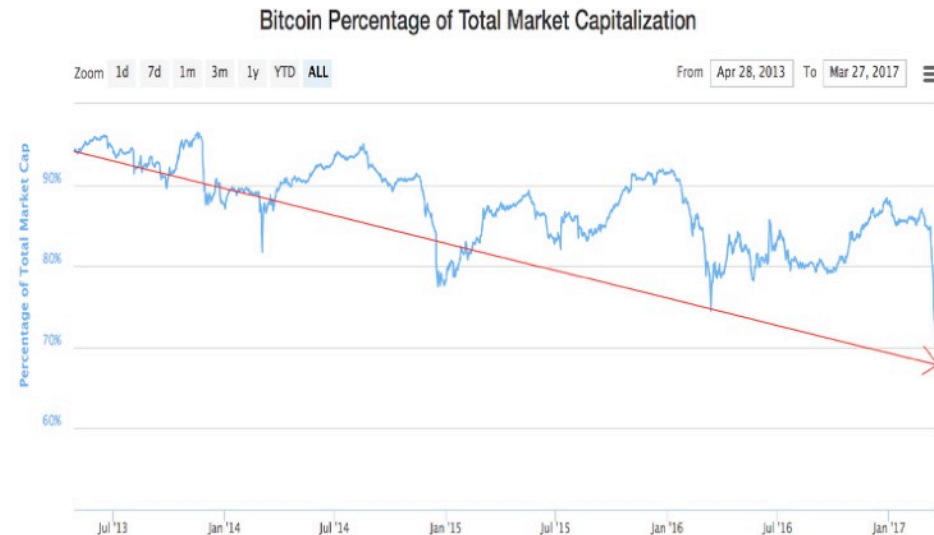
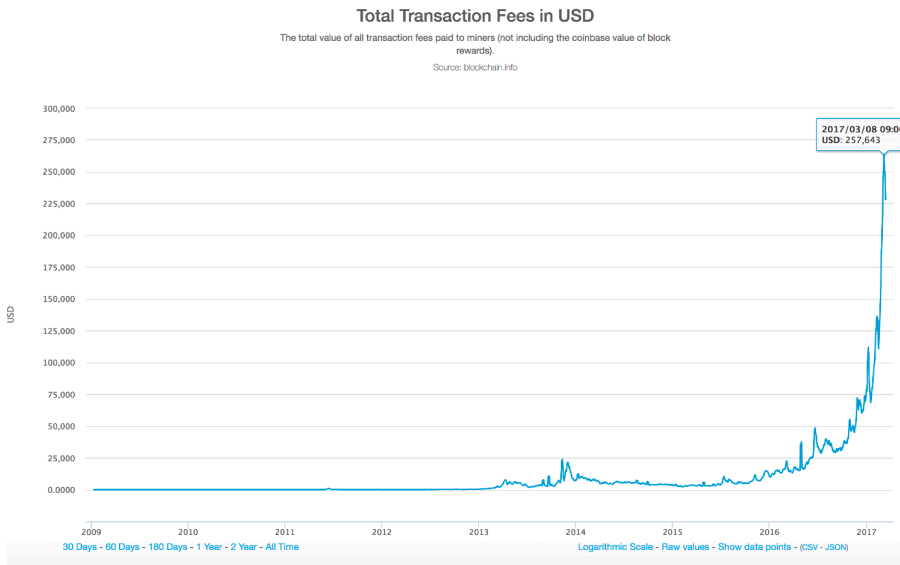
Bitcoin Percentage of Total Market Capitalization





Greg Maxwell, CTO

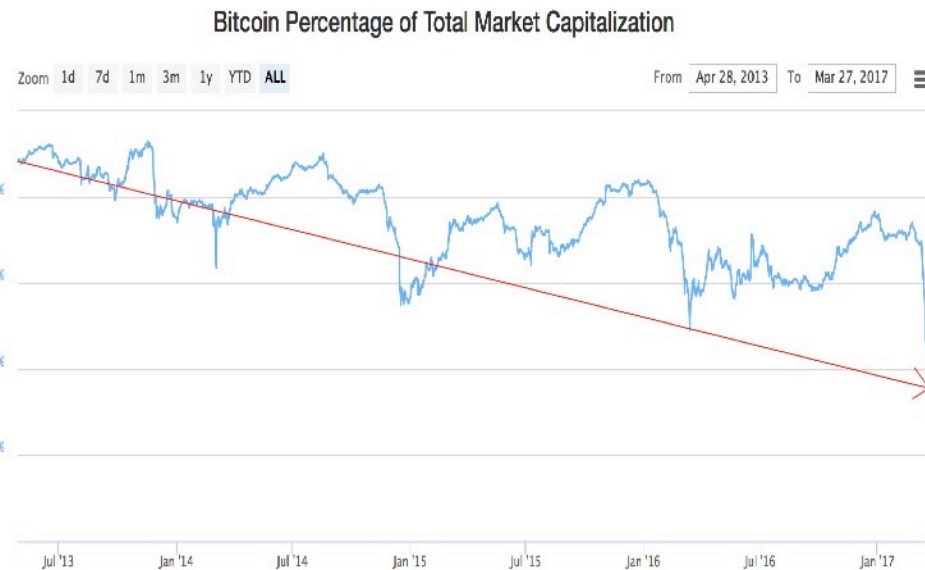
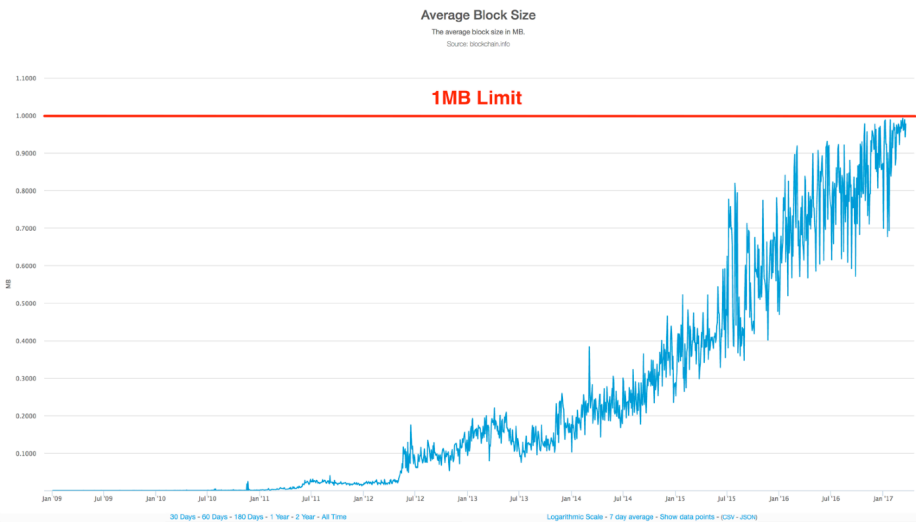
“fee pressure is an intentional part of the system design and to the best of the current understanding essential for the system’s long term survival.
So, uh, yes. It’s good.”





Greg Maxwell, CTO

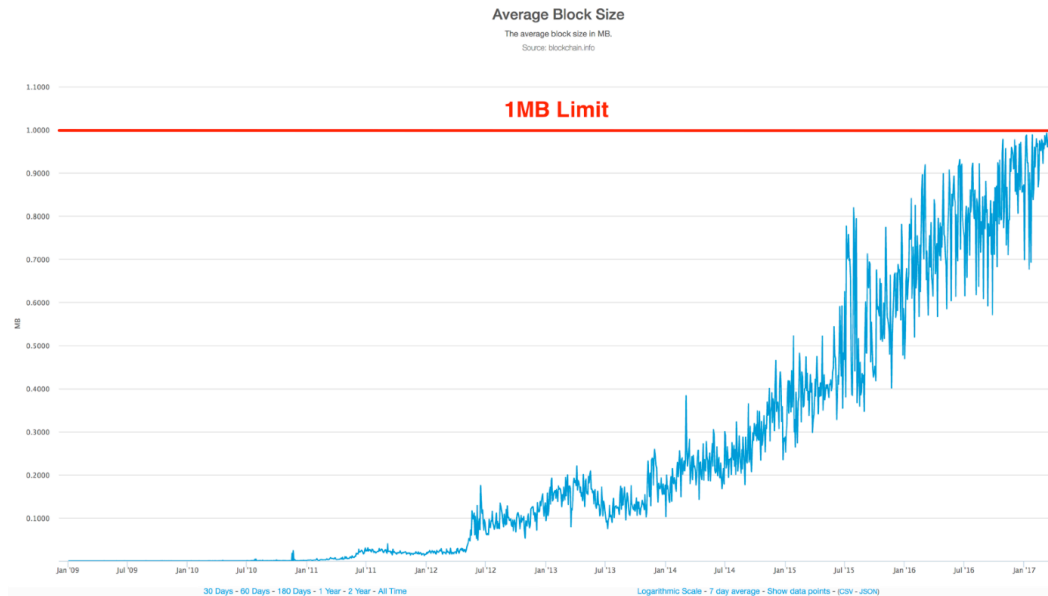
“There is nothing wrong with full blocks”





Greg Maxwell, CTO

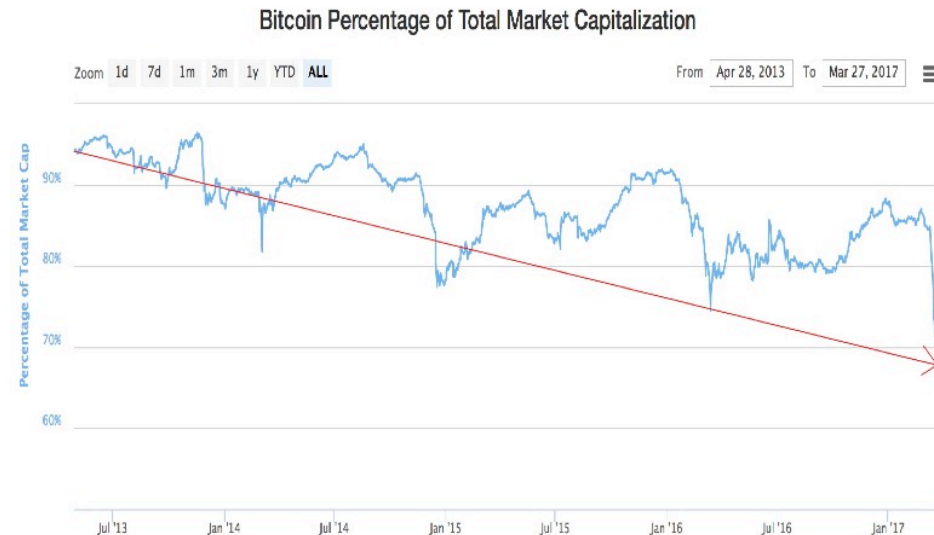
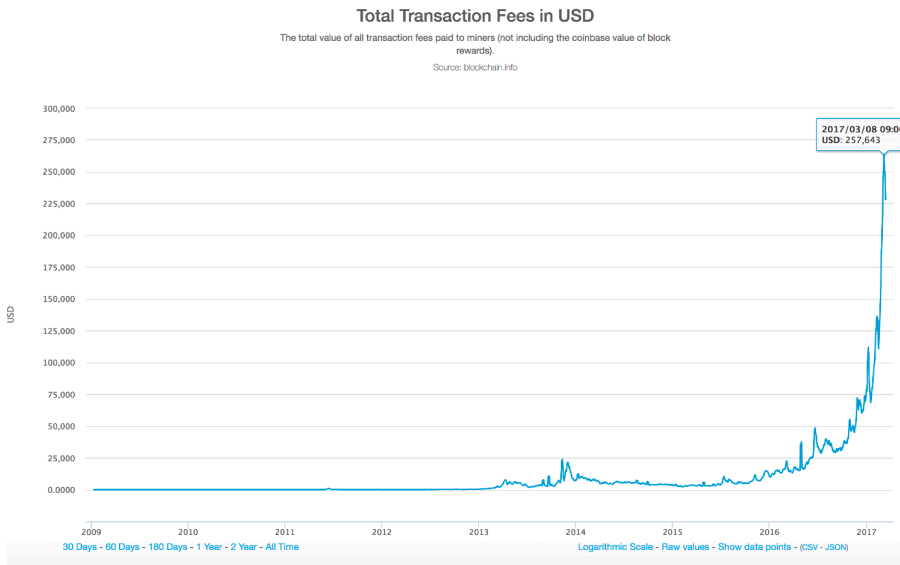
“Full blocks is the natural state of the system”





Greg Maxwell, CTO

“There is a consistent fee backlog, which is the required criteria for stability.”

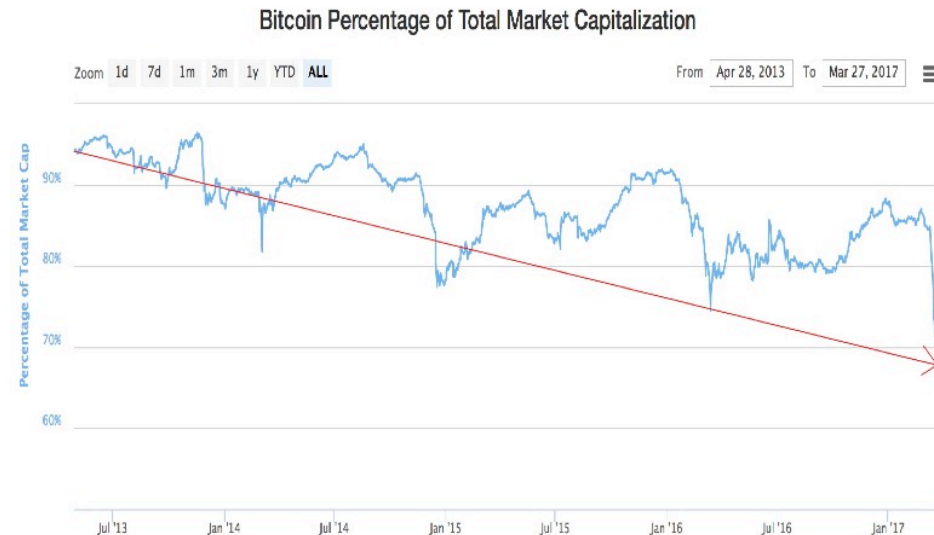
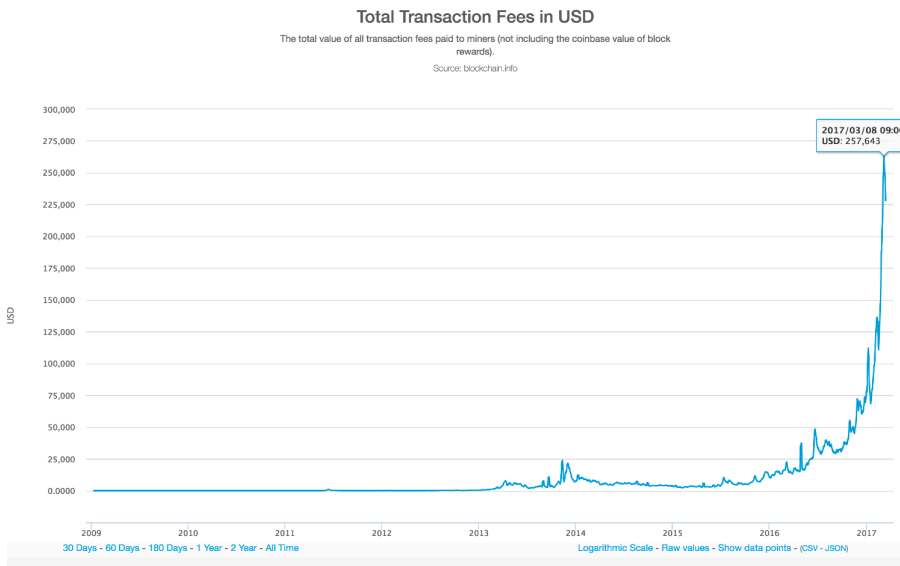


https://www.reddit.com/r/btc/comments/5tzq45/hey_do_you_realize_the_blocks_are_full_since_when/ddtb8dl/



Pieter Wuille

“we - as a community - should indeed let a fee market develop, and rather sooner than later”



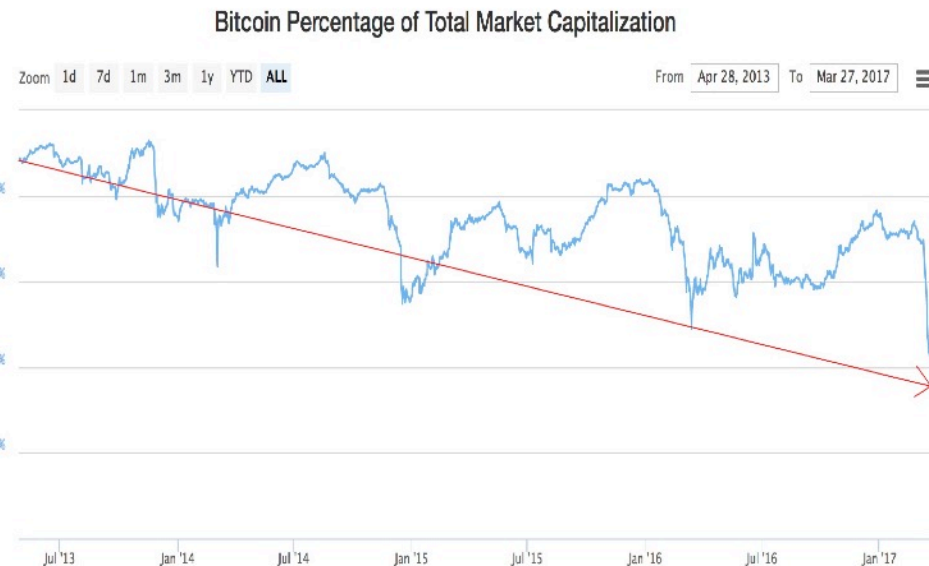
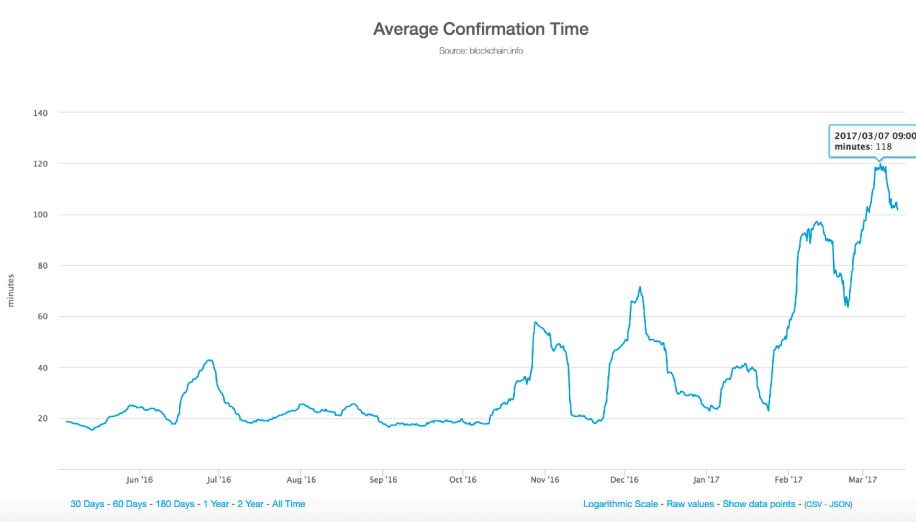


Bitcoin Core



Mark Friedenbach

“Slow confirmation, high fees will be the norm in any safe outcome.”





Bitcoin Core

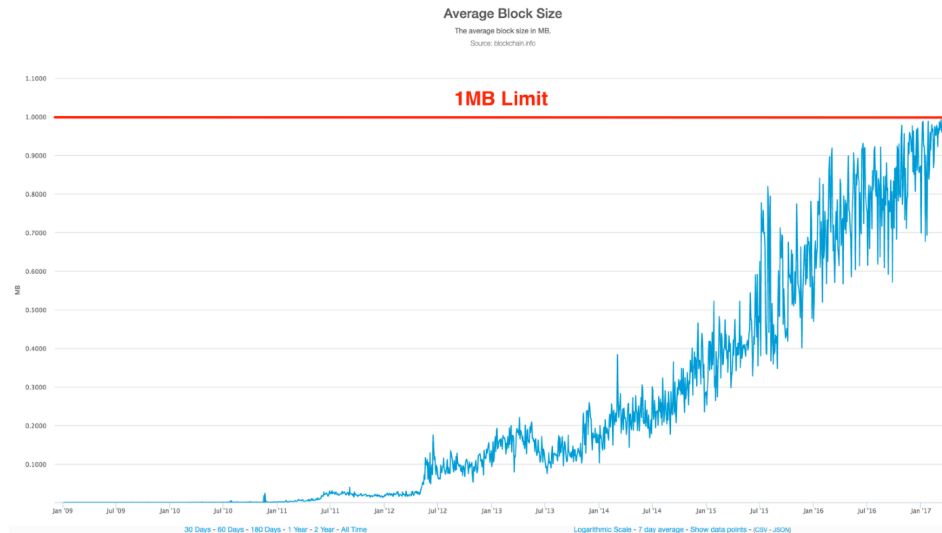


Blockstream



Luke-jr

“Reasonable block sizes currently range from ~550k to 1 MB”



https://www.reddit.com/r/Bitcoin/comments/5fwq1k/the_case_for_compromise_in_the_block_size_debate/daoipml/



Bitcoin Core



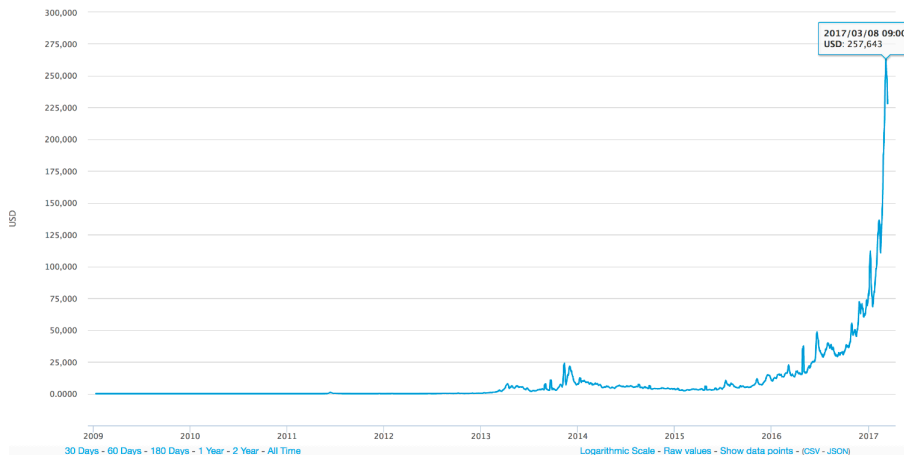
Luke-jr

“It is no longer possible to keep fees low.”

Total Transaction Fees in USD

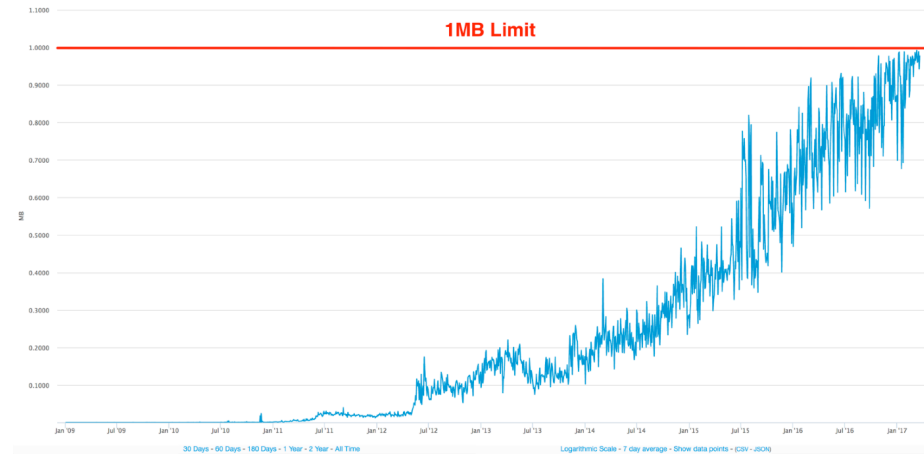
The total value of all transaction fees paid to miners (not including the coinbase value of block rewards).

Source: blockchain.info



Average Block Size

The average block size in MB.
Source: blockchain.info



https://www.reddit.com/r/Bitcoin/comments/5fwq1k/the_case_for_compromise_in_the_block_size_debate/daoipml/

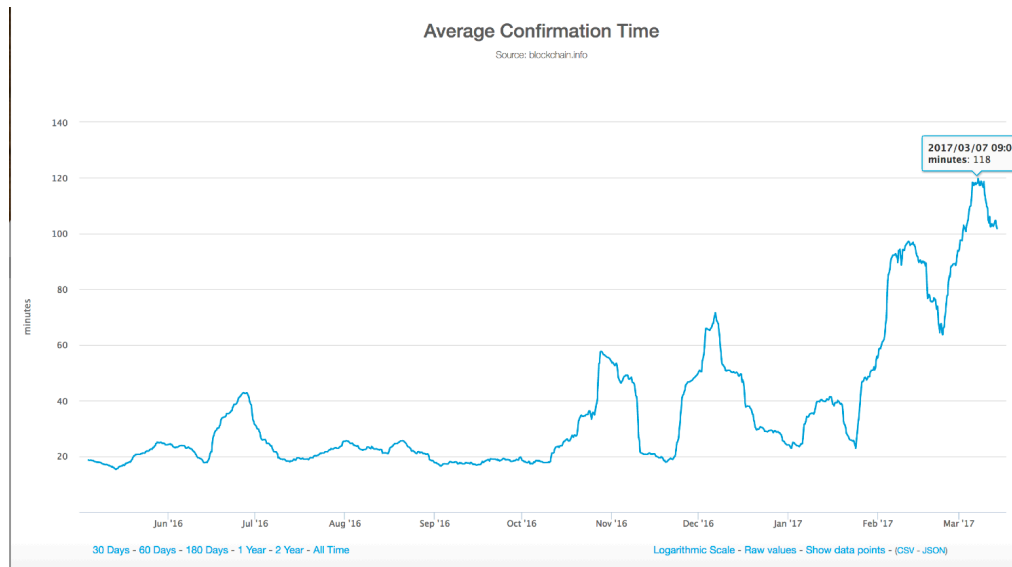


Bitcoin Core



Luke-jr

“Just pay a \$5 fee and it'll go through every time unless you're doing something stupid.”



https://www.reddit.com/r/Bitcoin/comments/5rvtzx/75k_unconfirmed_tx_have_suggestion/ddaii2i/



Bitcoin Core



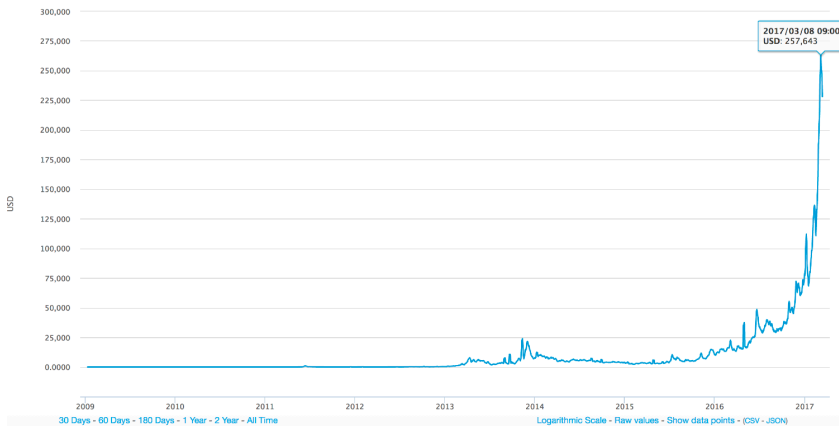
Jorge Timon

“...higher fees may be just what is needed...”

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Bitcoin Percentage of Total Market Capitalization



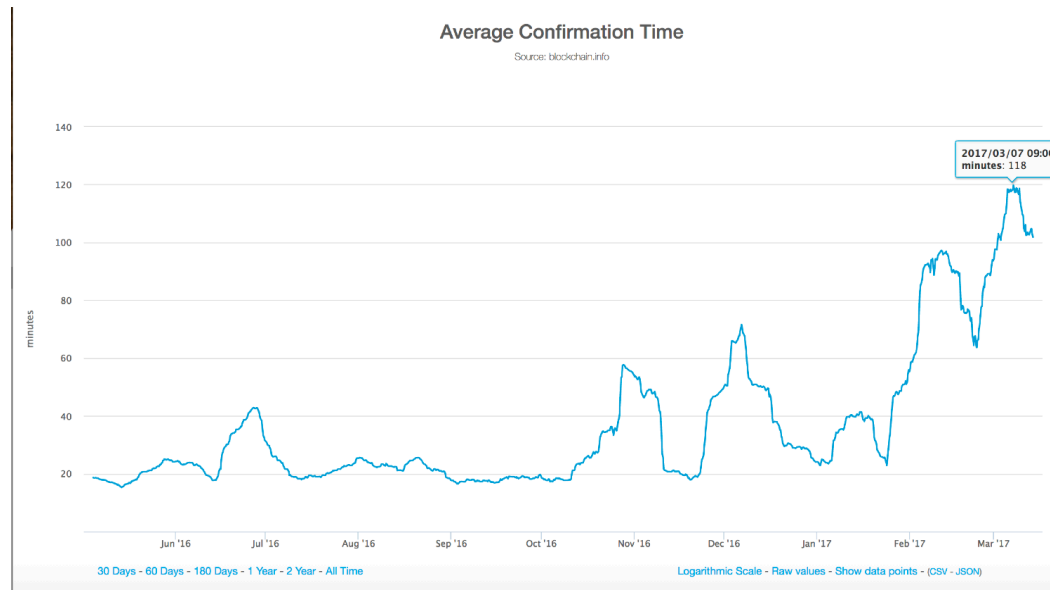


Bitcoin **Core**



Jorge Timon

“Confirmation times are fine for those who pay high fees.”

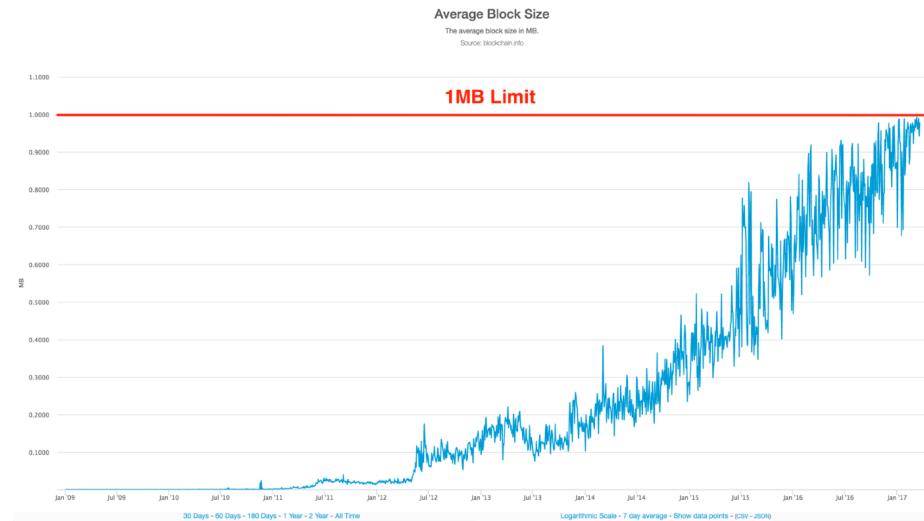
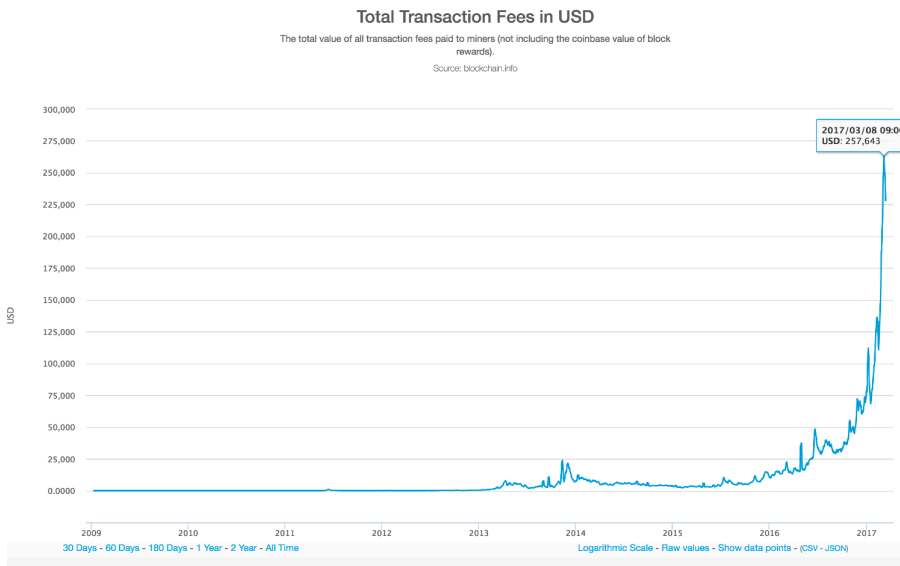


https://www.reddit.com/r/btc/comments/5jzt6/there_is_a_correlation_coefficient_of_080018843/dbkqpxn/



Jorge Timon

“Bitcoin needs a competitive fee market in the long run to sustain pow once the subsidies are gone. I am very happy that we have it now....”



https://www.reddit.com/r/btc/comments/5jztz6/there_is_a_correlation_coefficient_of_080018843/dbkqpxn/



Bitcoin Core



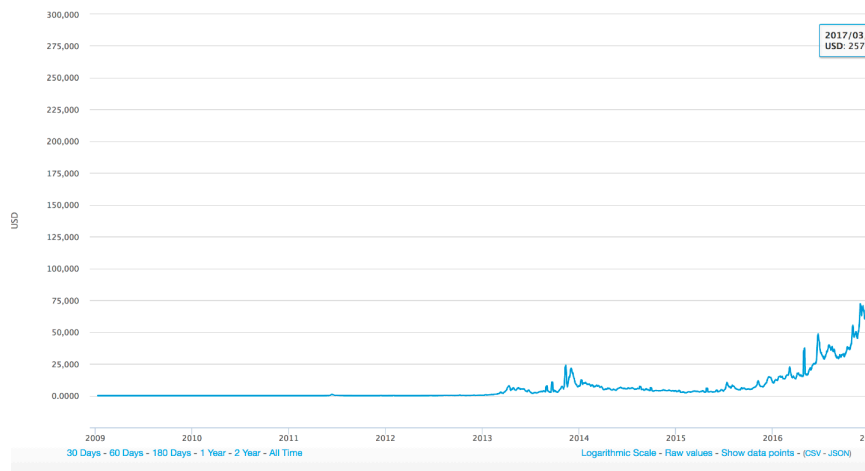
Jorge Timon

“I think Adam and I agree that hitting the limit wouldn't be bad, but actually good for a young and immature market like bitcoin fees.”

Total Transaction Fees in USD

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Bitcoin Percentage of Total Market Capitalization





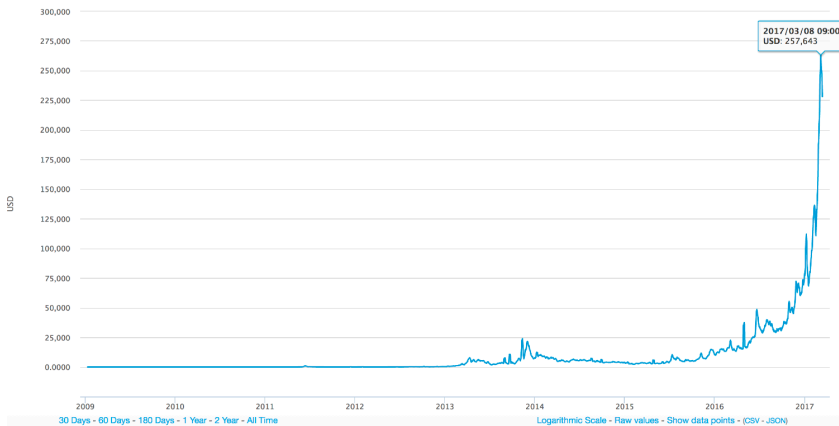
Wladimir J. van der Laan

“A mounting fee pressure, resulting in a true fee market where transactions compete to get into blocks, results in urgency to develop decentralized off-chain solutions.”

Total Transaction Fees in USD

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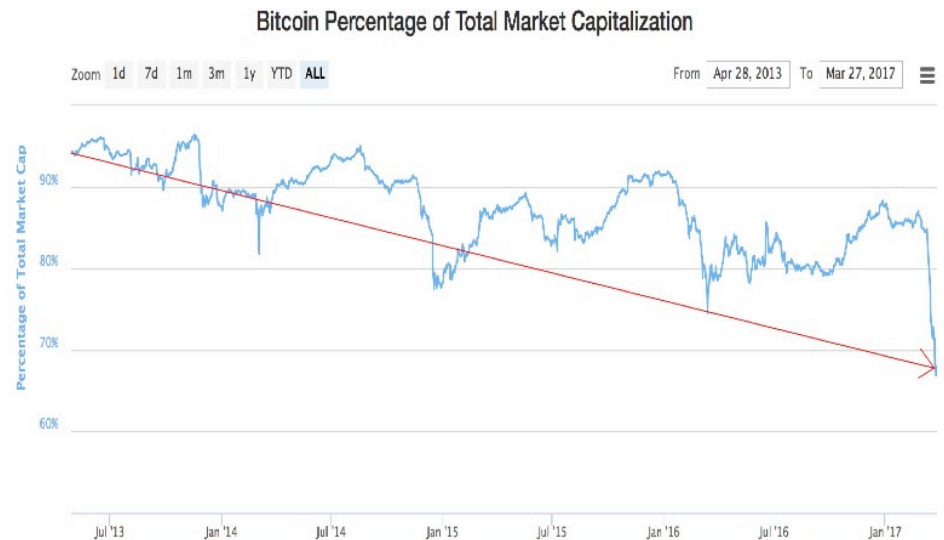
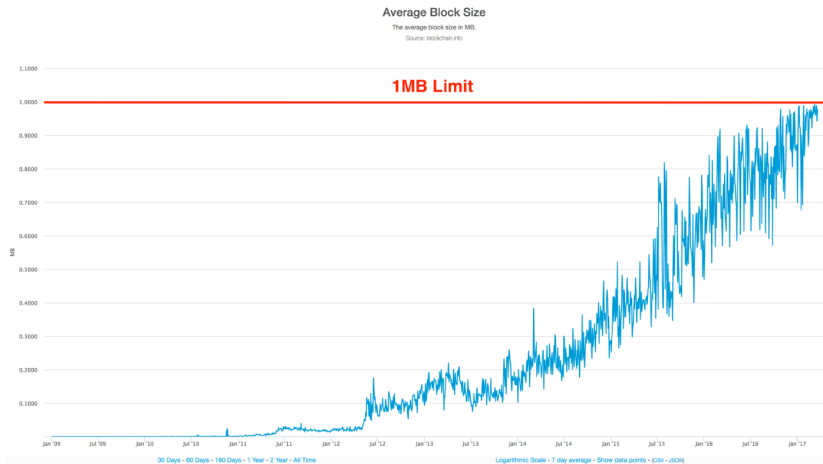
Bitcoin Percentage of Total Market Capitalization





Wladimir J. van der Laan

“ I'm afraid increasing the block size will kick this can down the road and let people (and the large Bitcoin companies) relax...”



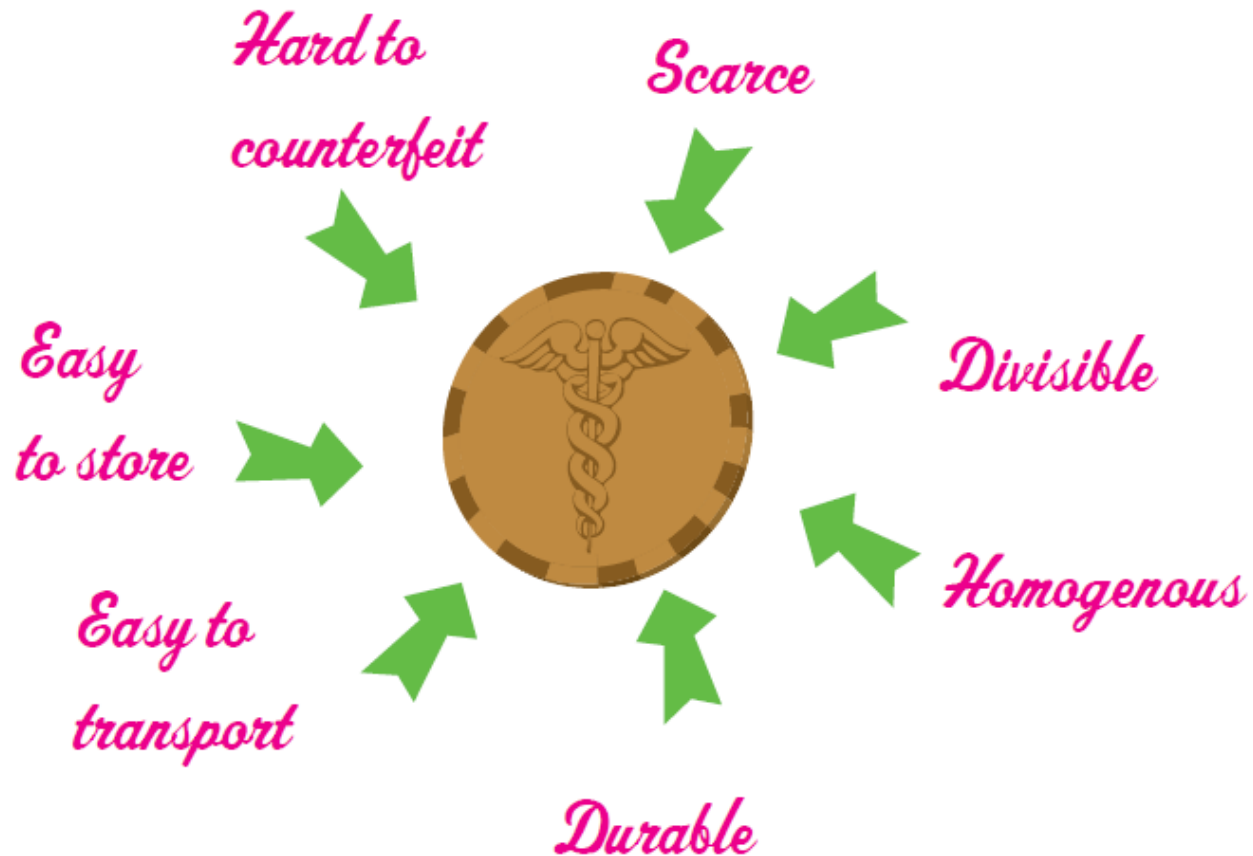
What can we do about it?



Bigger Blocks
Lower Fees
Faster Confirmations
+
Layer 2 Scaling

**Bitcoin Unlimited's
plan leads to.....**

Better Money



Better Money Leads to:

More Users

More Nodes

More Adoption

More Censorship Resistance

Higher Market Cap

Higher price

Roger Ver

World's First Bitcoin Investor



Q & A

Bitcoin.com



 [@rogerkver](https://twitter.com/rogerkver)

