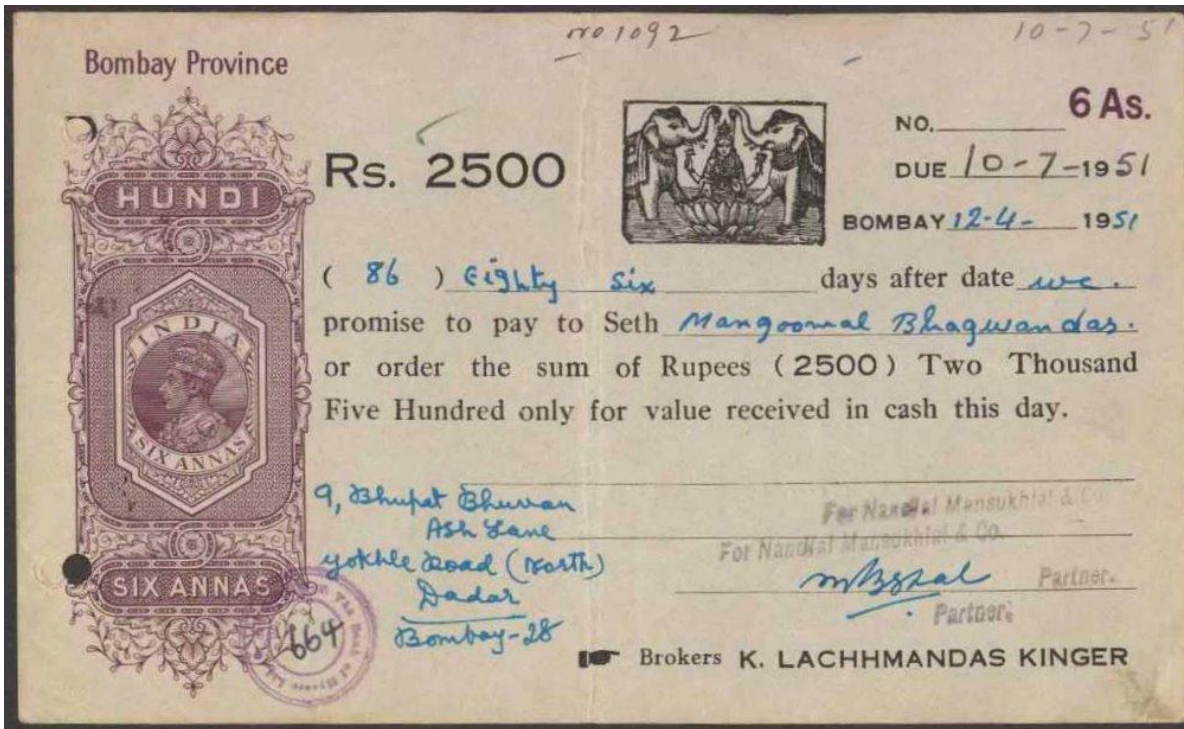


Money, Fraud, and Bitcoin.

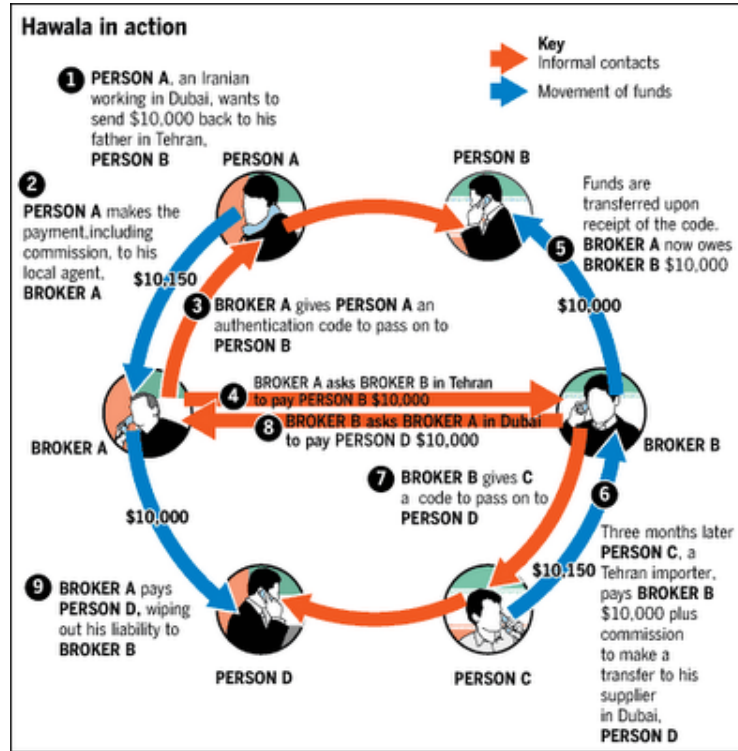
Ethan Heilman

IVTFs such as Hawala, Hundi, 飞钱 (flying money), Black Market Peso Exchange.



- Used for over 4000-5000 years.
- Probably very similar to ancient debt systems.
- ~100 Billion transferred annually and growing.


Hawala in Action.



Frank Abagnale





COLONIAL CLASSIC WCC

 DONALD E. KNUTH
COMPUTER SCIENCE DEPARTMENT
STANFORD UNIVERSITY
STANFORD, CA 94305-9045

Date 24 Aug 02 1015
11-3167/1210
01

Pay to the Order of Gabriel Valiente \$ 2.56

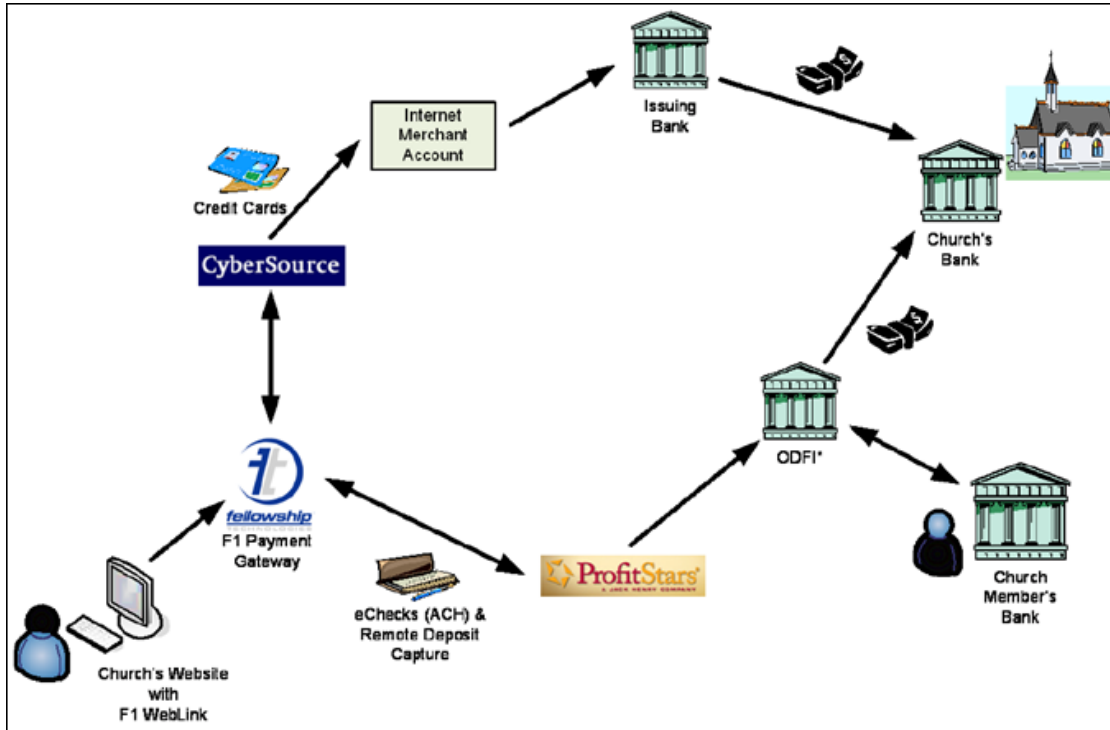
Two and 56/100 Dollars  Security features are included. Details on Back.


AMERICA CALIFORNIA BANK
2390 El Camino Real • Palo Alto, CA 94306 • 888.902.6225

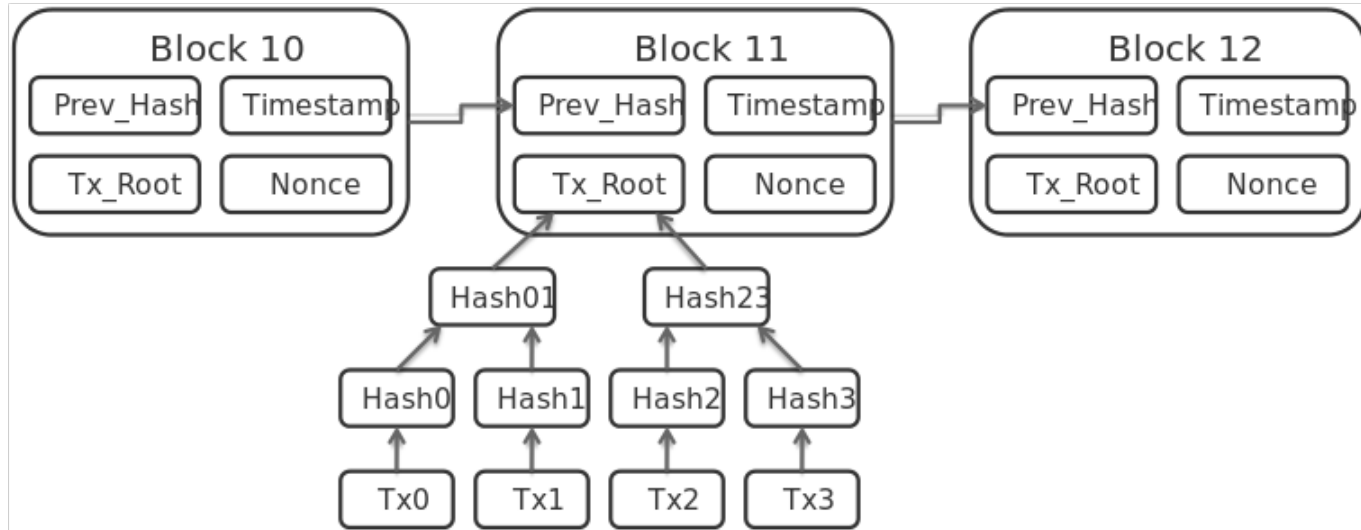
For KLR78 Donald Knuth MP

⑆ 1 2 1 0 3 1 6 7 3 ⑆ 1 0 1 5 0 1 1 5 5 8 4 9 0 6 ⑆

Credit Cards



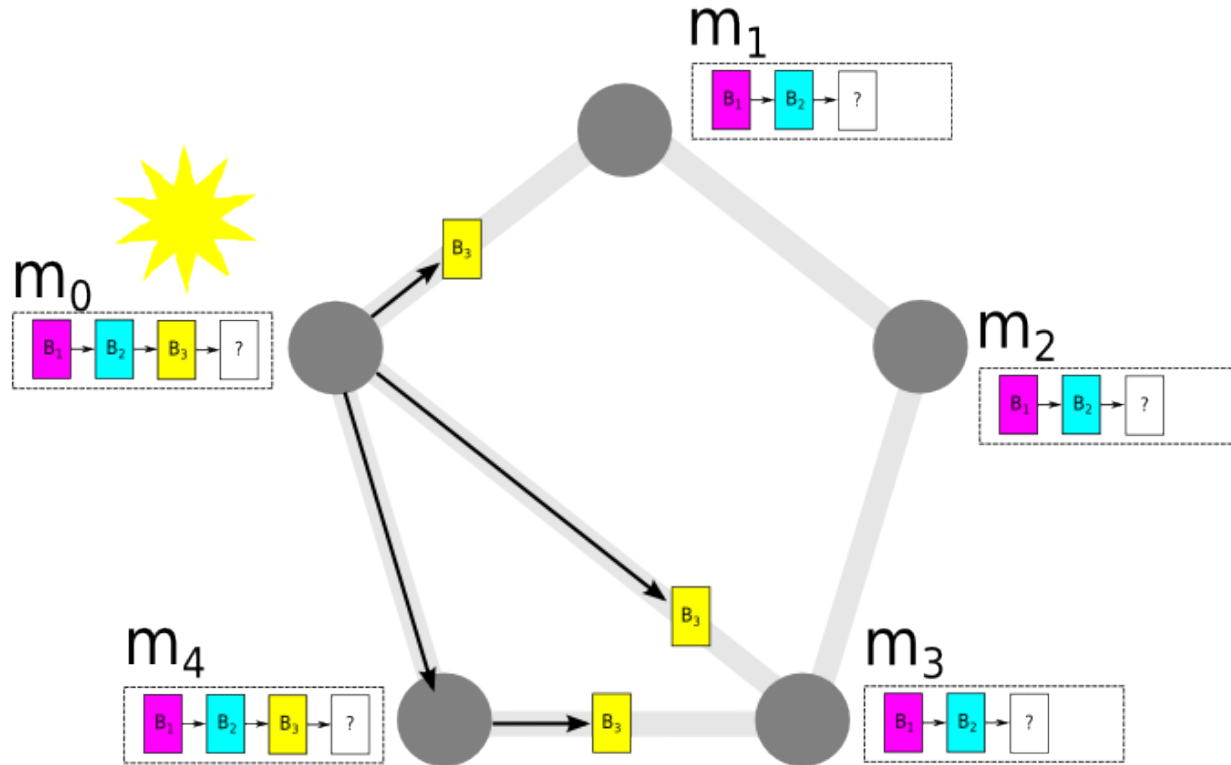
Blockchain



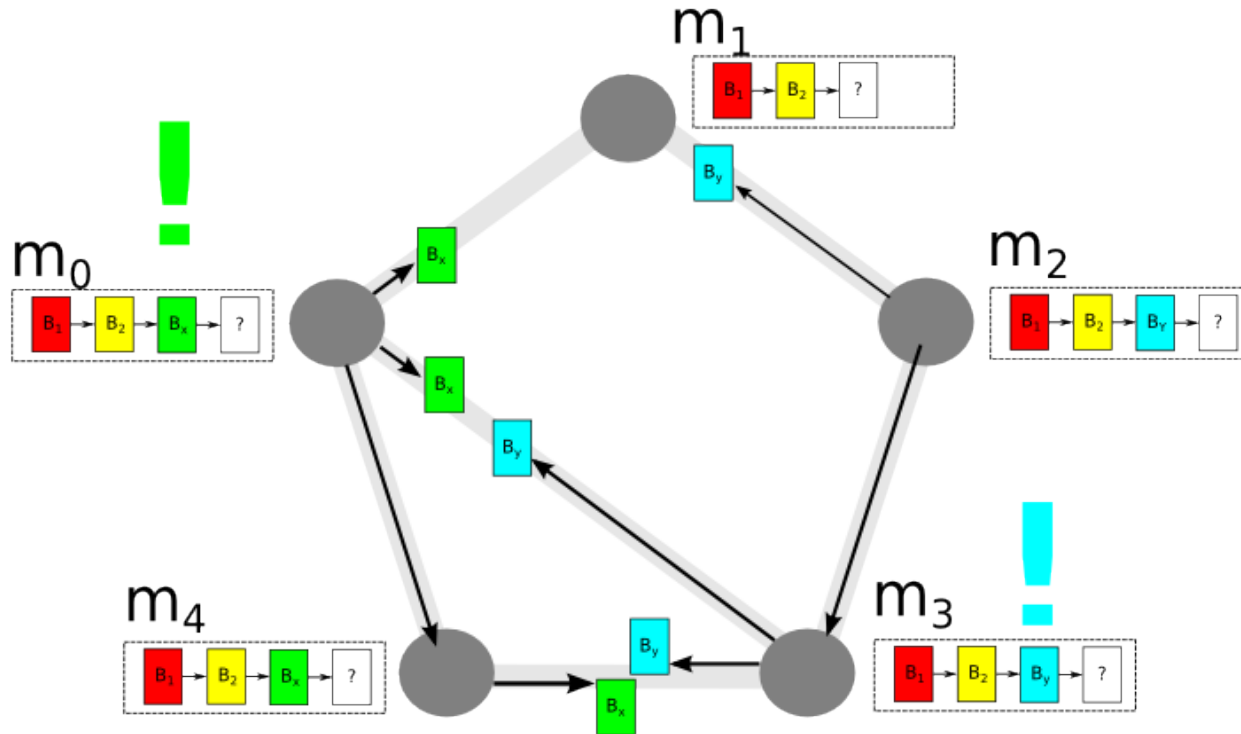
Exploring the Blockchain

<http://blockexplorer.com/>

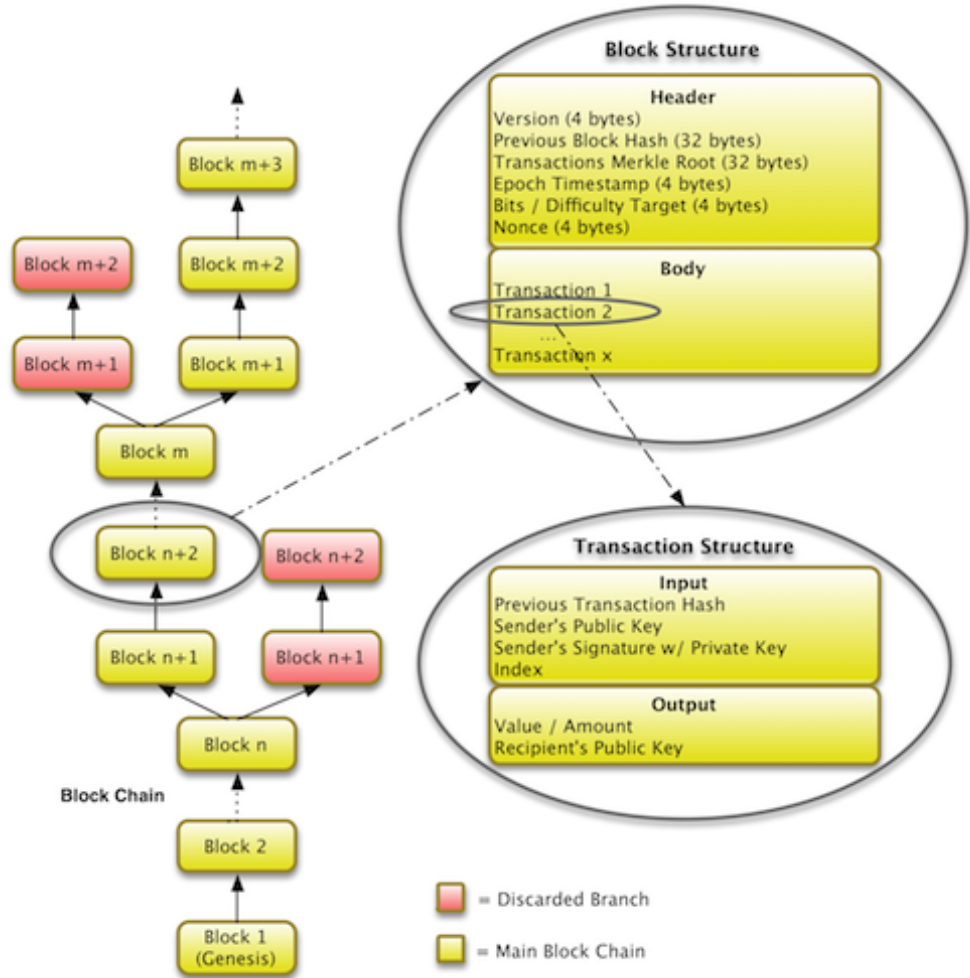
Bitcoin



Block Races



Forks



BUT WHO WILL BUILD

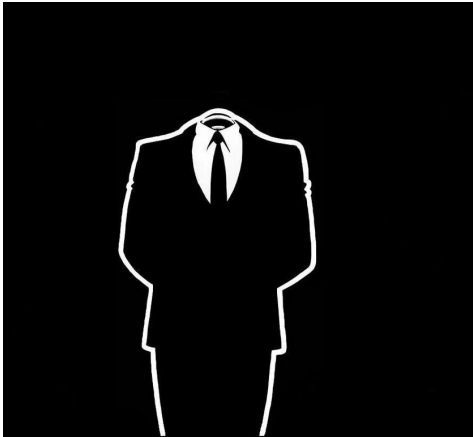


THE BLOCKCHAIN?



Is Bitcoin Anonymous?

No, Bitcoin is Pseudo-Anonymous.

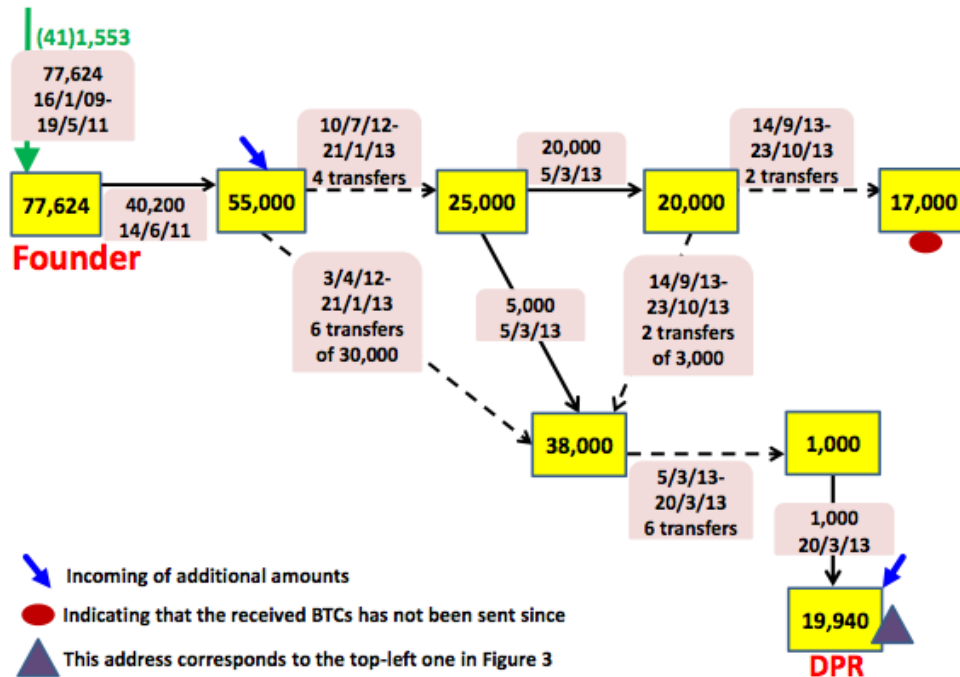


Anonymous



Pseudo-Anonymous

Transaction Graph



As The FBI says...

“(U) Bitcoin’s anonymity depends on the actions of the user. While some news articles have lauded Bitcoin as untraceable digital currency, the About Bitcoin page on bitcoin.org does not list anonymity as a feature of the currency. All Bitcoin transactions are published online and Internet Protocol (IP) addresses are linked to the public Bitcoin transactions. **If a user does not anonymize his or her IP address, an interested party can identify the individual’s physical location.** Additionally, [...] researchers [...] demonstrated the inherent limits of anonymity when using Bitcoin by conducting passive analysis of various types of public Bitcoin information, such as transaction records and user postings of public-private keys. The researchers suggest that **law enforcement agencies or other centralized services (such as exchangers or retailers) who have access to less public information (bank account information or shipping addresses) can connect even more real world identifiers to Bitcoin wallets and transaction histories.**”

FBI Directorate of Intelligence Cyber Intelligence Section and Criminal Intelligence Section (2012)

ZeroCoin

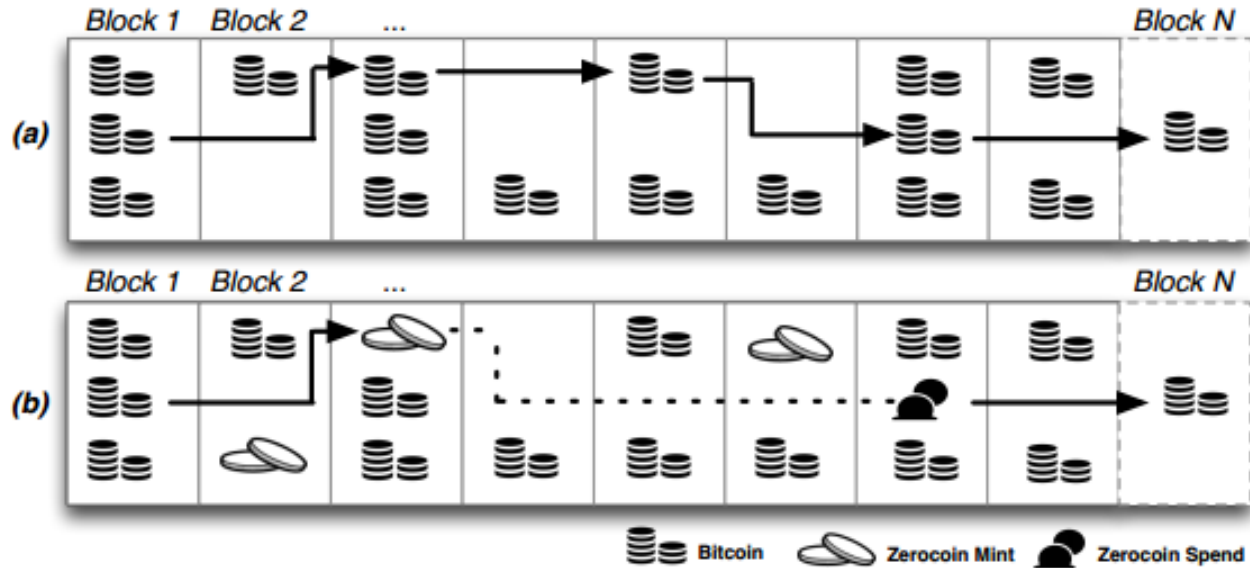


Figure 1: Two example block chains. Chain (a) illustrates a normal Bitcoin transaction history, with each transaction linked to a preceding transaction. Chain (b) illustrates a Zerocoin chain. The linkage between mint and spend (dotted line) cannot be determined from the block chain data.

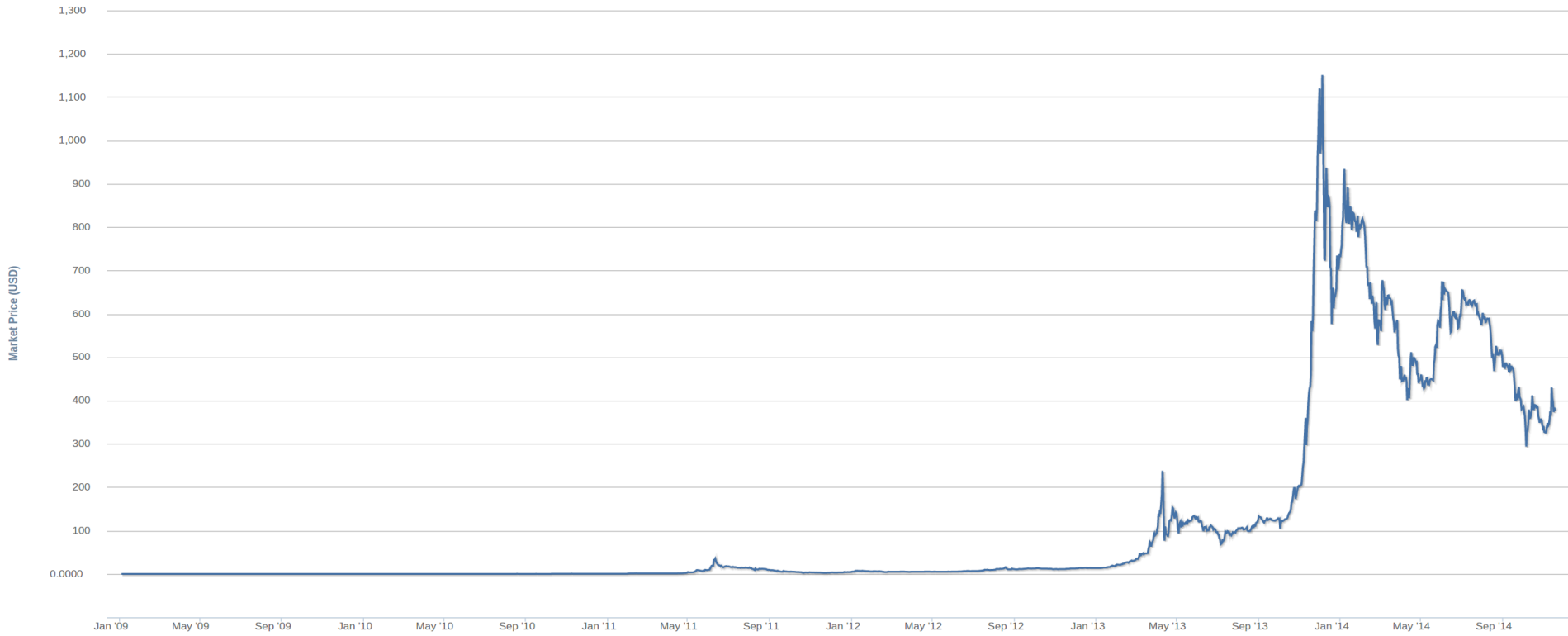
How has Bitcoin faired.

- 2008: Invented by Satoshi Nakamoto.
- 2009: Implemented by Nakamoto + others.
- 2011: 1 Bitcoin > 1 US dollar.
- 2012: Bitpay reports over 1000 online merchants using Bitcoins
- 2013: "we believe bitcoin can become a major means of payment for e-commerce and may emerge as a serious competitor to traditional money-transfer providers."

- Bank of America Merrill Lynch

- 2013: China forbids banks from dealing in Bitcoin + Biadu stops accepting btc
- 2014: IRS issues tax guidance on Bitcoins.
- Today: 1 Bitcoin > ~350 US dollars, major retailers support it including: expedia, dell, overstock.com, newegg.

How has Bitcoin faired.



Bitcoin not a Currency but a Protocol.

- Bitcoin has a built-in scripting language.
 - If A happens then do B.
- <http://www.proofofexistence.com/>
- <http://coloredcoins.org/>
- <https://www.namecoin.org/>
- <https://www.ethereum.org/>

Ethereum: Freenet or Skynet? April 15, 2014 at 12:30pm



Blockchain



Ages/âge/edades

9-99

18323

The Bitcoin
Blockchain

285,800 pcs/pzs

Building Toy
Jouet de Construction
Juguete para Construir



Includes Winklevii & Bitcoin Miner minifigures

Expert