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bitcoin

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criptoBasic

general

basic

• how does bitcoin actually work?

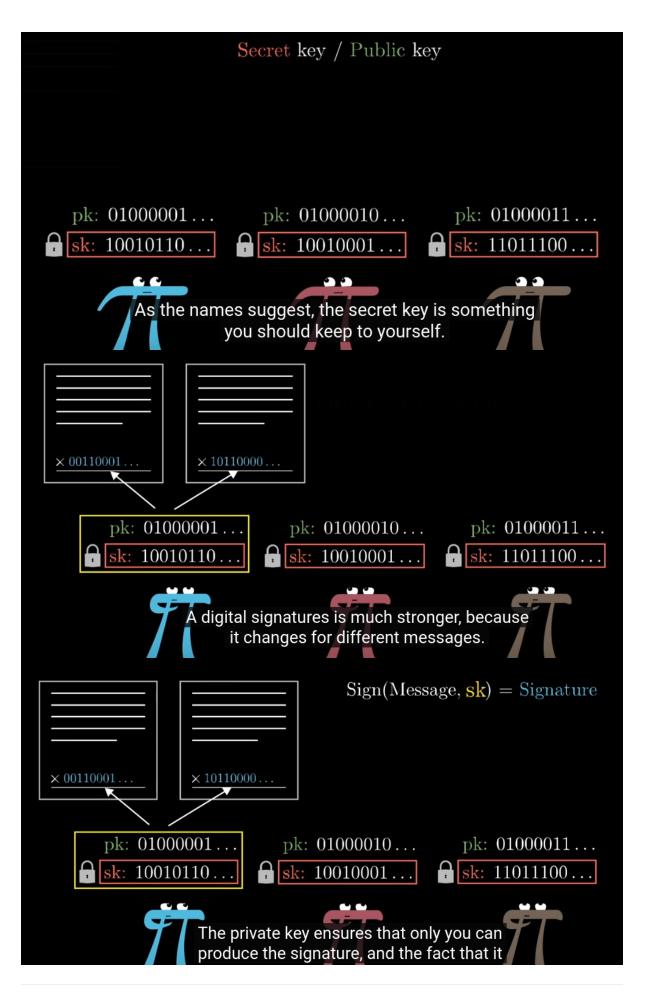
read

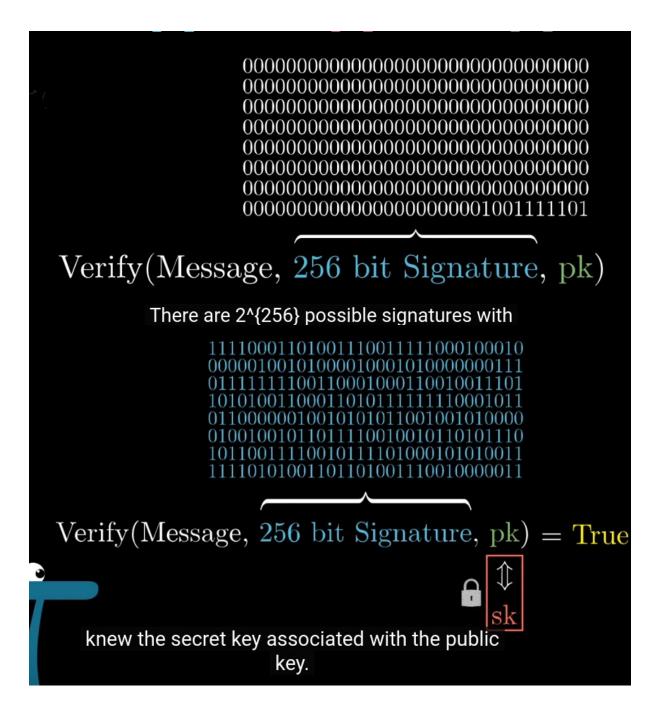
- $\bullet \quad \text{read the whitePaper/bitcoin.pdf} \\$
- masteringBitcoin

#

- But how does bitcoin actually work?
- $\bullet \quad https://www.youtube.com/watch?v=bBC-nXj3Ng4$

signature

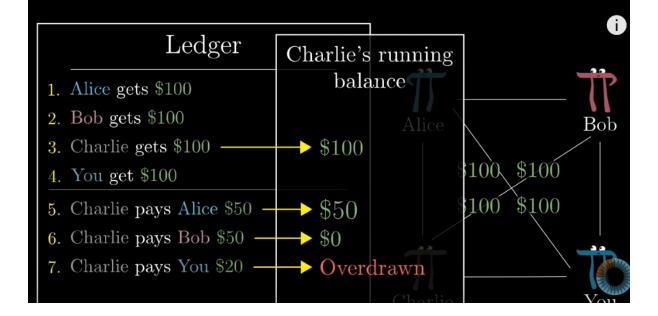




protocl: overspanding

Protocol

- · Anyone can add lines to the Ledger
- · Only signed transactions are valid
- · No overspending



protocol: move to new currency

Ledger

:

104. Alice pays Bob \$20

105. Charlie pays You \$80

106. Bob pays Charlie \$60

107. Bob pays Alice \$30

108. Alice pays You \$100

Ledger Dollars "LD"

Ledger

:

104. Alice pays Bob 20 LD

105. Charlie pays You 80 LD

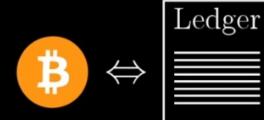
106. Bob pays Charlie 60 LD

107. Bob pays Alice 30 LD

108. Alice pays You 100 LD

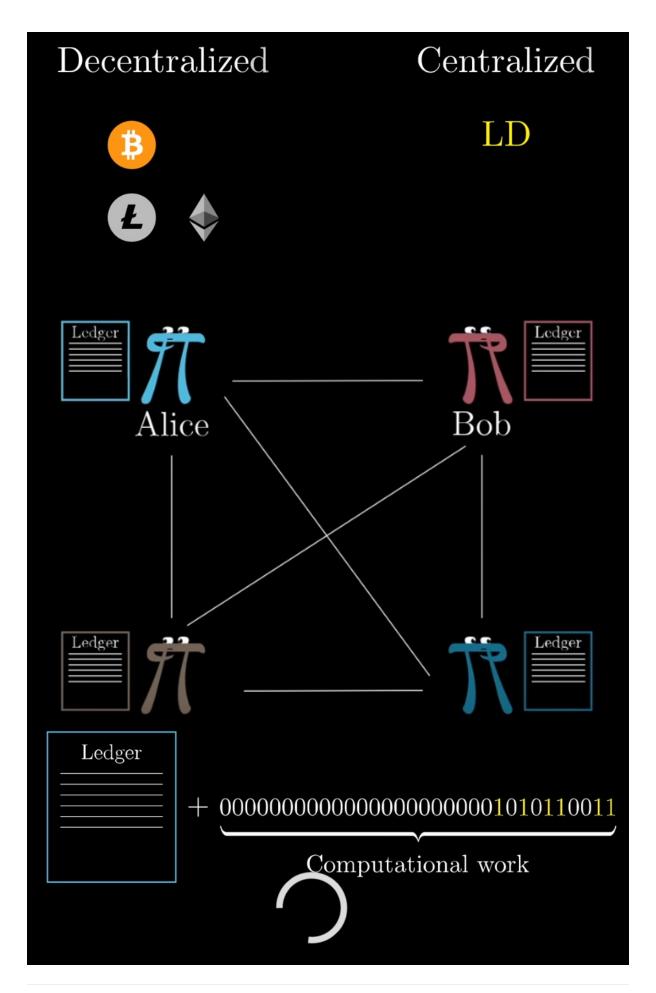
Ledger Dollars "LD"

Currency = Transaction history



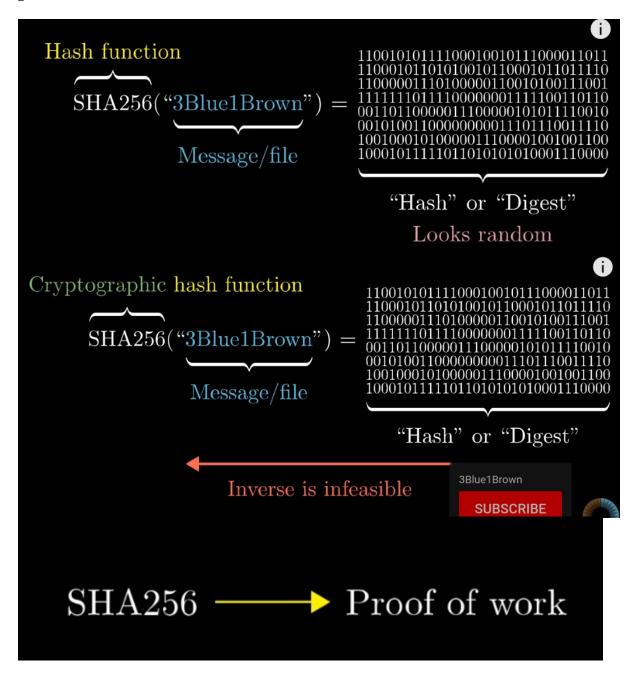


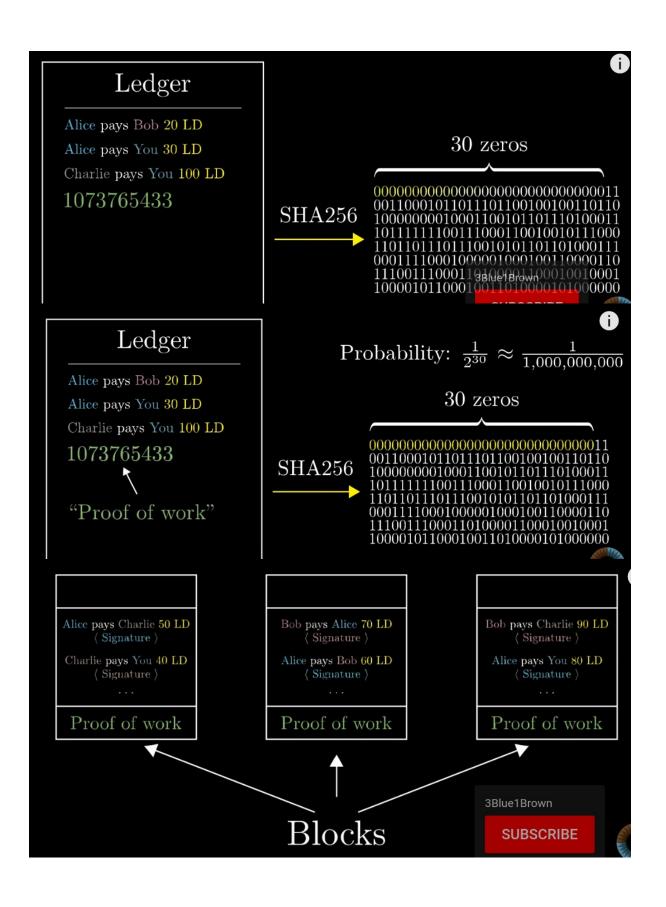
protocol: decentrailize

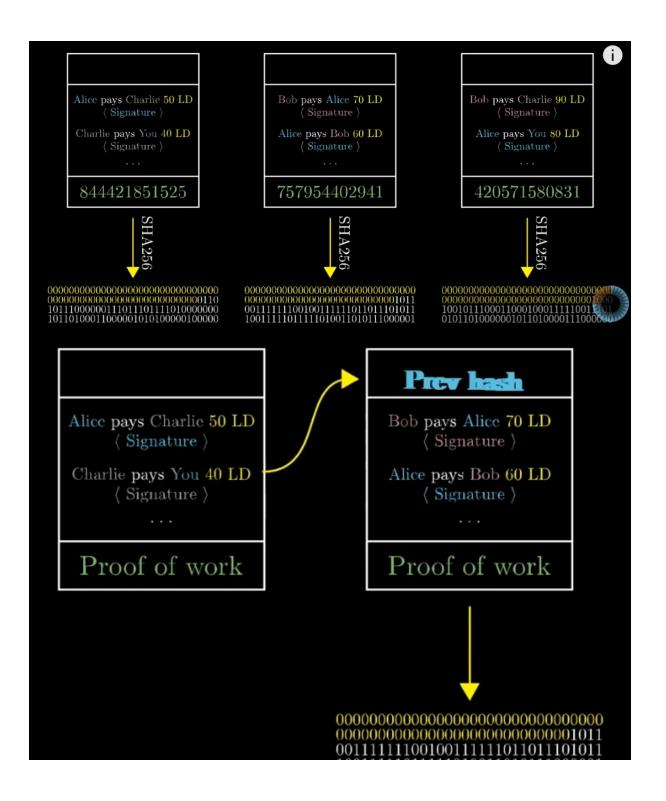


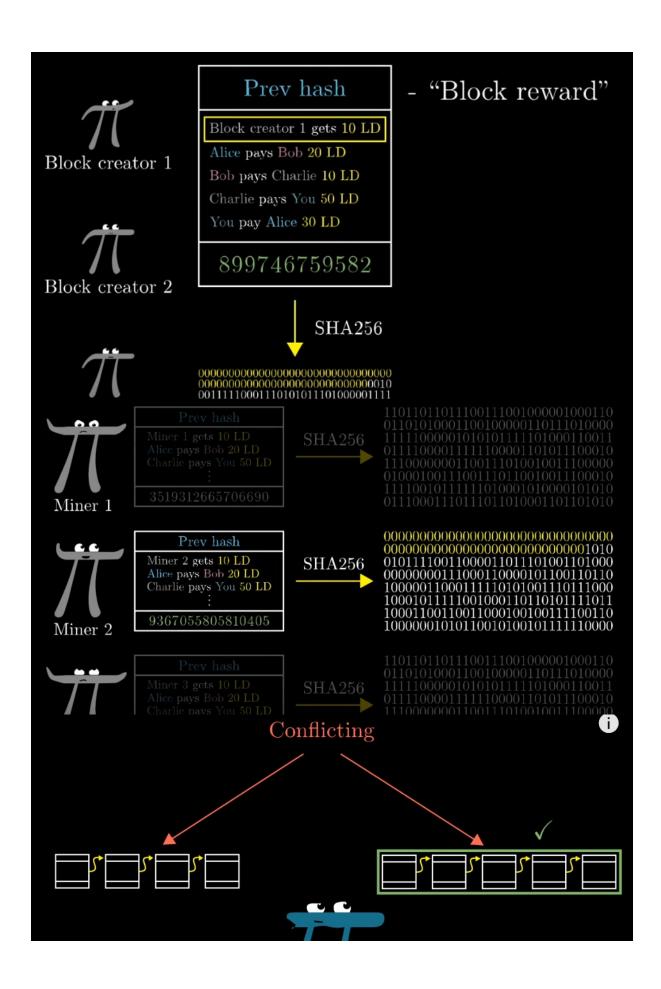
Main tool: Cryptographic hash functions

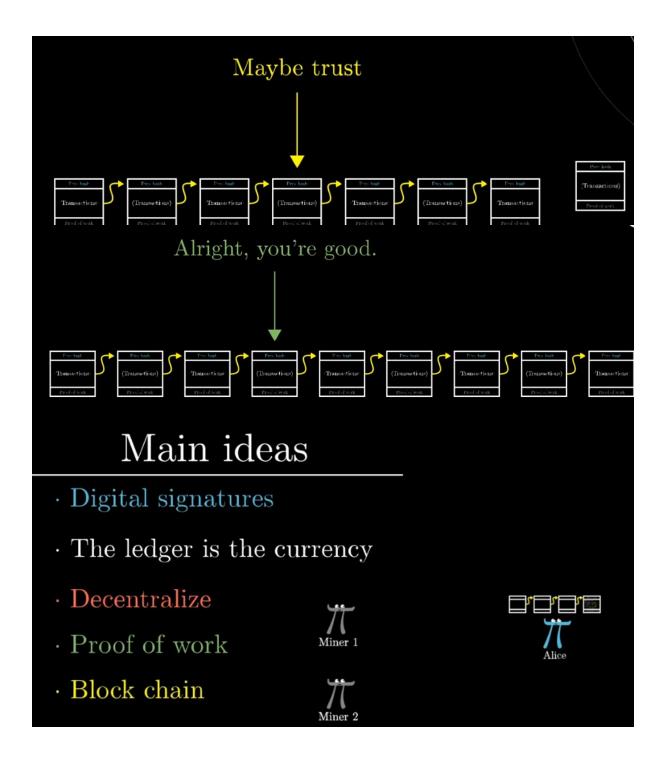
protocol: same list to all



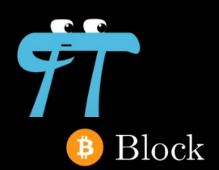












Incentivizes miner to include

Prev hash

Alice pays Bob 0.42 BTC
You pay Charlie 3.14 BTC
Bob pays You 2.72 BTC
Alice pays Charlie 4.67 BTC
:

 $\sim 2,400$ transactions

Limited to

Proof of work

#

- https://github.com/bitcoinbook/bitcoinbook