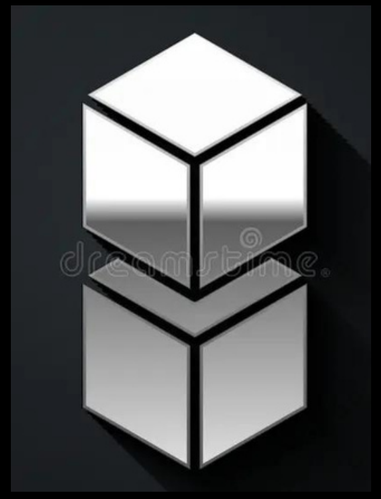
JUNE 16
2023



BLOCKCHAIN TECHNOLOGY

IT CLUB
PULCHOWK

BLOCKCHAIN
TECHNOLOGY

What is money?

VISHAL
POKHAREL

Story of Money

Barter System

Commodity money

Metal coins

Paper notes

Fiat currencies

- no intrinsic value
- worthless paper used as medium of exchange
- backed by nothing

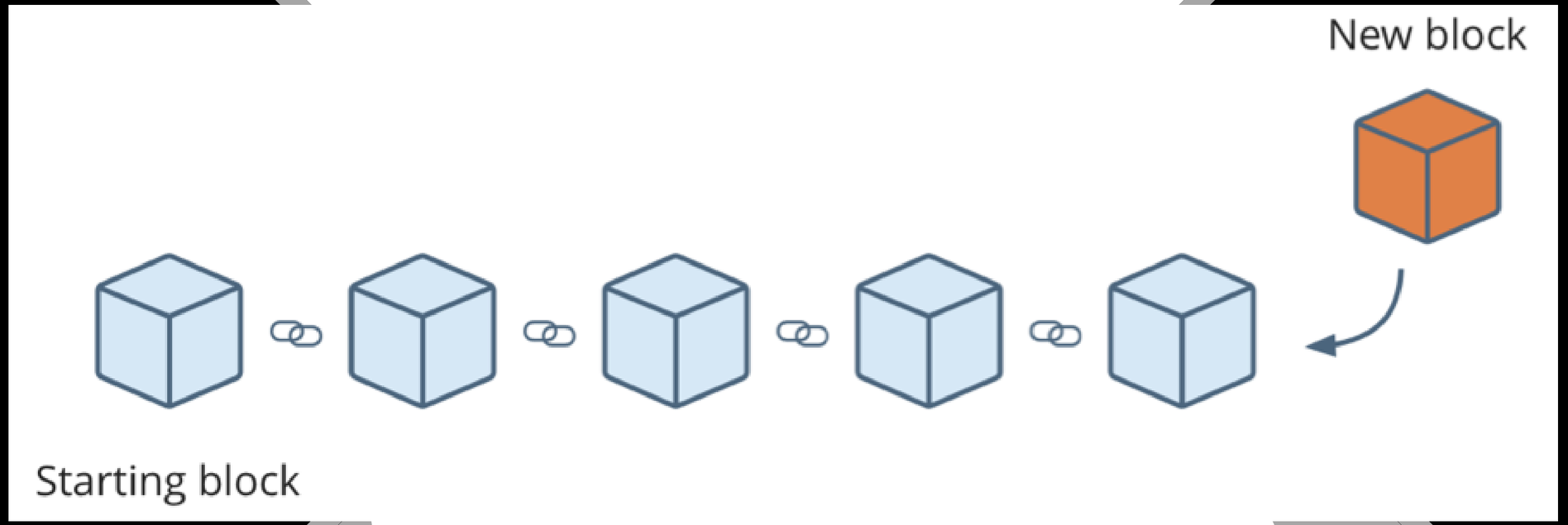
Money

- Medium of exchange
- Store of value
- Portable
- Divisible
- Unit of account
- Fungible

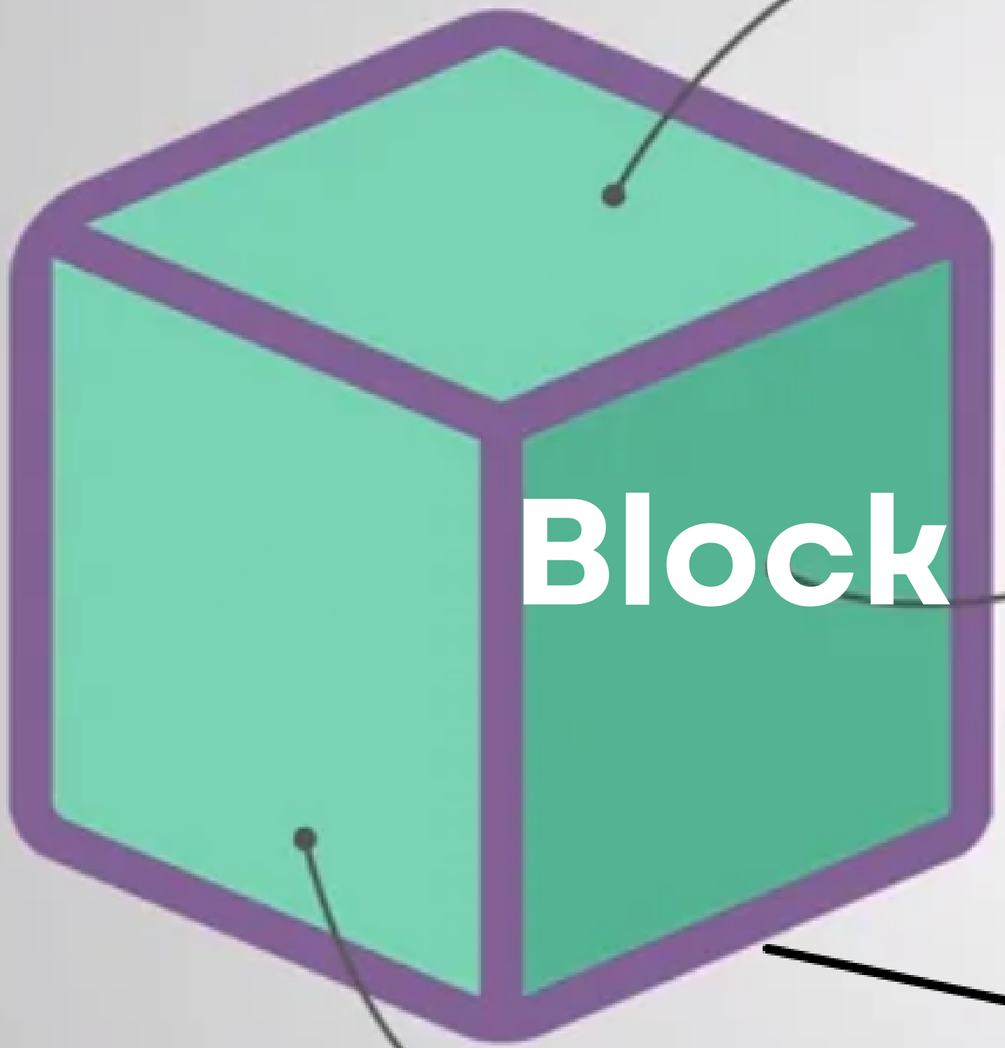
Bitcoin

- decentralized
- peer to peer electronic cash system
- trustless

Blockchain



BLOCKCHAIN
TECHNOLOGY



Data

Nonce

Hash of previous block

Target hash

Hashing

INPUT DATA	HASH OUTPUT (SHA-256)
My name is Toby	cacb5418163039b016be9746818a2926f68fd1e4bad1b04f6791f6aabb5e8c52
My name is Tony	9cd2444dc56929bdb97123add1f007643effa88bf1ed061eee1eead4e15ac7f9
My name is Toby and this is my project	9abbaa0c54fcd028ac51bede2608d06e8d3a026784e34adfac14fadd143d212c

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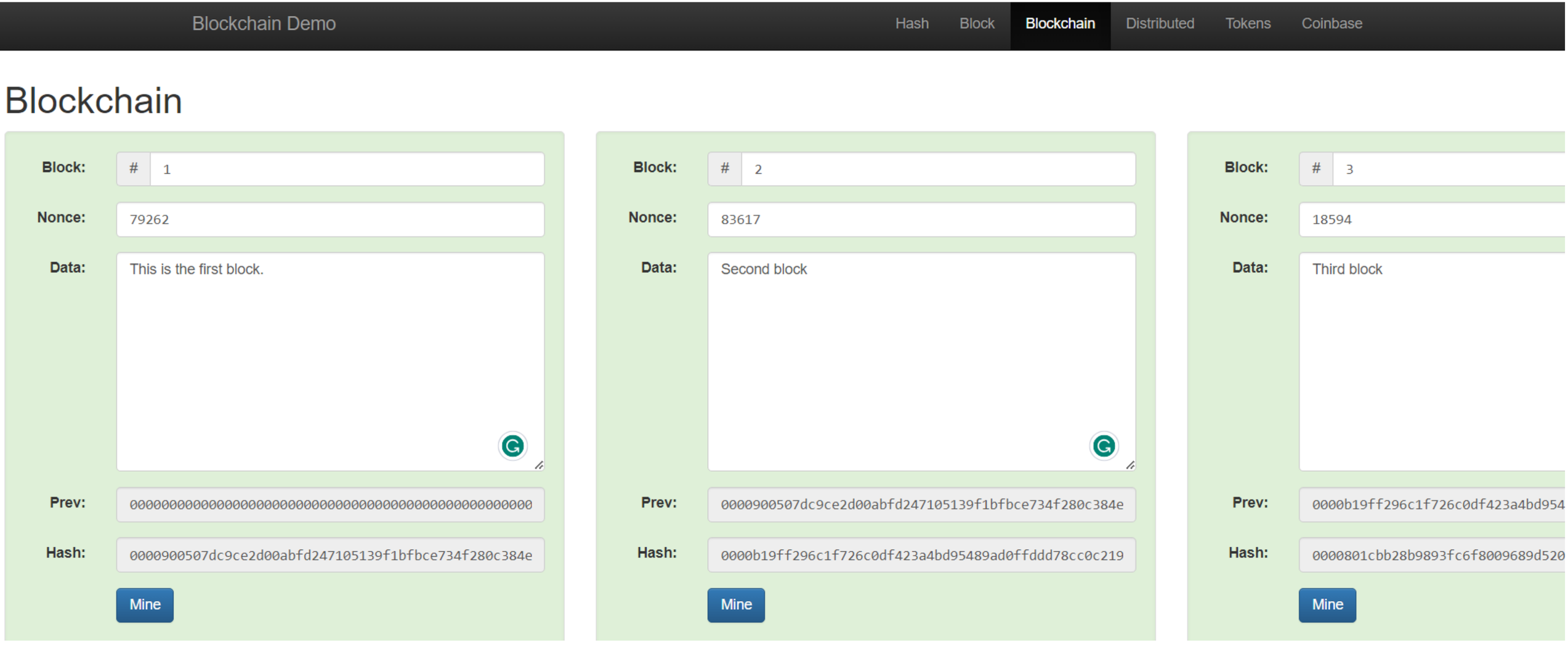
TECHNOLOGY

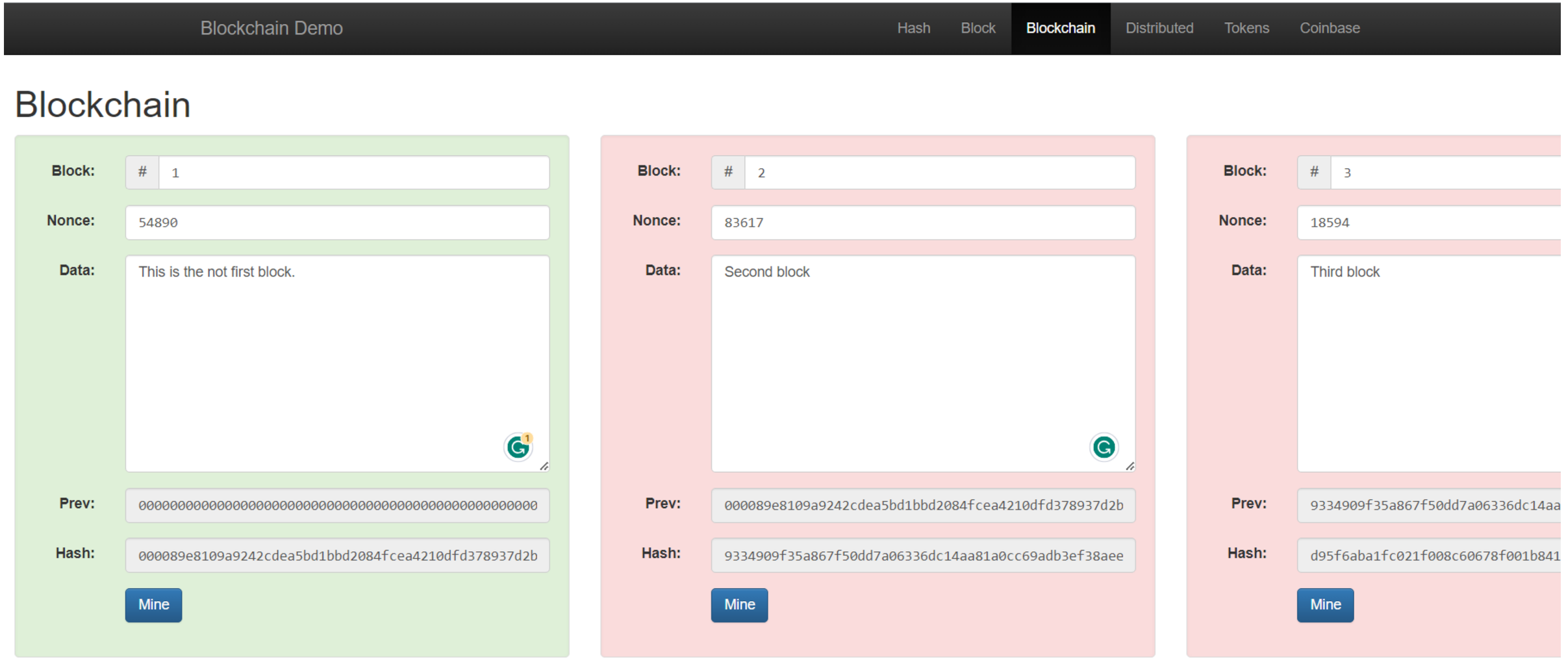
Bitcoin mining

- process of verifying transactions
- solving mathematical puzzles
- rewarded with new bitcoin

Nonce - hit and trial



Immutability



BLOCKCHAIN

TECHNOLOGY

Peer A

Block:	# 1	# 2
Nonce:	11316	35230
Data:		
Prev:	0000000000000000000000000000000000000000000000000000000000000000	000015783b764259d382017d91a36d206d0600e2cbb3567748f46a33fe9297cf
Hash:	000015783b764259d382017d91a36d206d0600e2cbb3567748f46a33fe9297cf	000012fa9b916eb9078f8d98a7864e697ae83ed54f5146bd84452cdafd043c19
	Mine	Mine

Distributed

Peer B

Block:	# 1	# 2
Nonce:	11316	35230
Data:		
Prev:	0000000000000000000000000000000000000000000000000000000000000000	000015783b764259d382017d91a36d206d0600e2cbb3567748f46a33fe9297cf
Hash:	000015783b764259d382017d91a36d206d0600e2cbb3567748f46a33fe9297cf	000012fa9b916eb9078f8d98a7864e697ae83ed54f5146bd84452cdafd043c19
	Mine	Mine

BLOCKCHAIN
TECHNOLOGY

Network effect

- social media sites, languages, religion
- belief

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Ethereum

- Vitalik Buterin
- Smart Contracts
- Dapps

BLOCKCHAIN
TECHNOLOGY

Applications

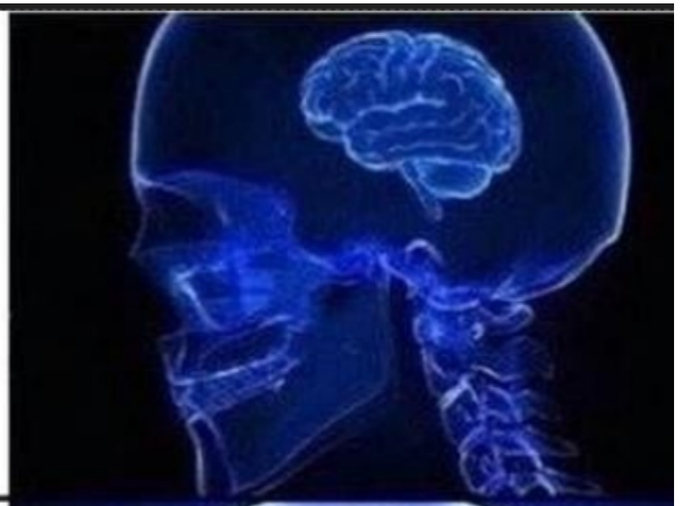
- Transparency
- Verification
- Intermediary

BLOCKCHAIN
TECHNOLOGY

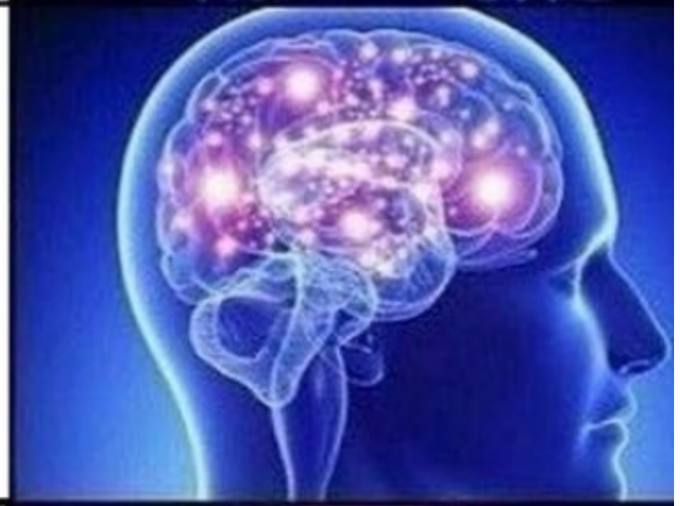
Applications

- DeFi
- Decentralized Identity
- Gaming and NFTs
- Insurance
- Voting

Work for money



Have money work for you



Create money