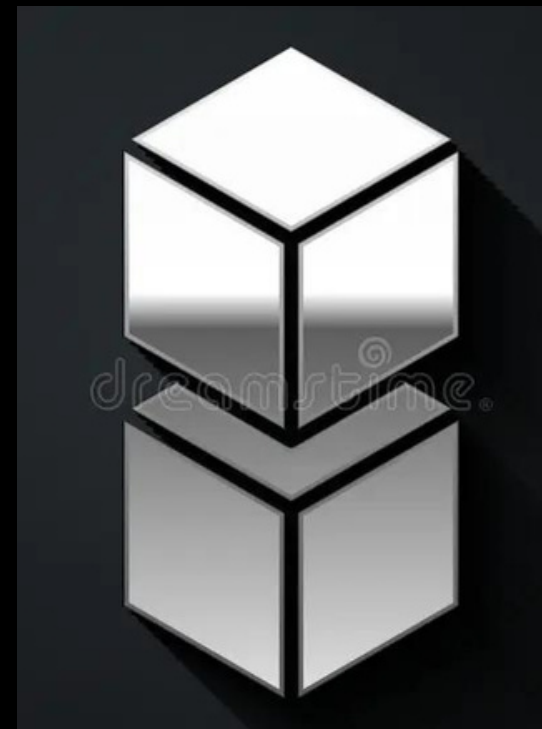
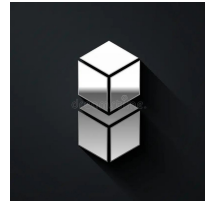


JUNE 16  
2023



# BLOCKCHAIN TECHNOLOGY

IT CLUB  
PULCHOWK



**BLOCKCHAIN**  
TECHNOLOGY

# What is money?

**VISHAL**  
**POKHAREL**

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# 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





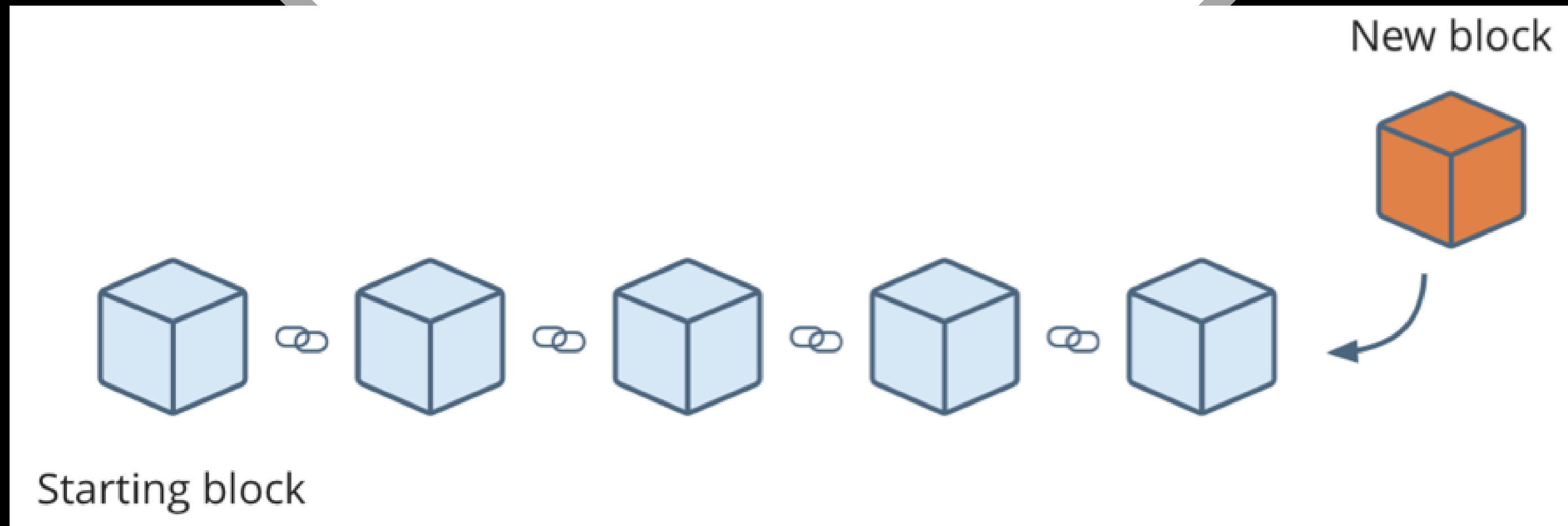
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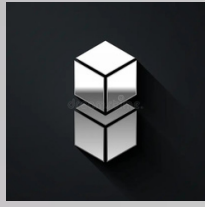
# Bitcoin

- decentralized
- peer to peer electronic cash system
- trustless

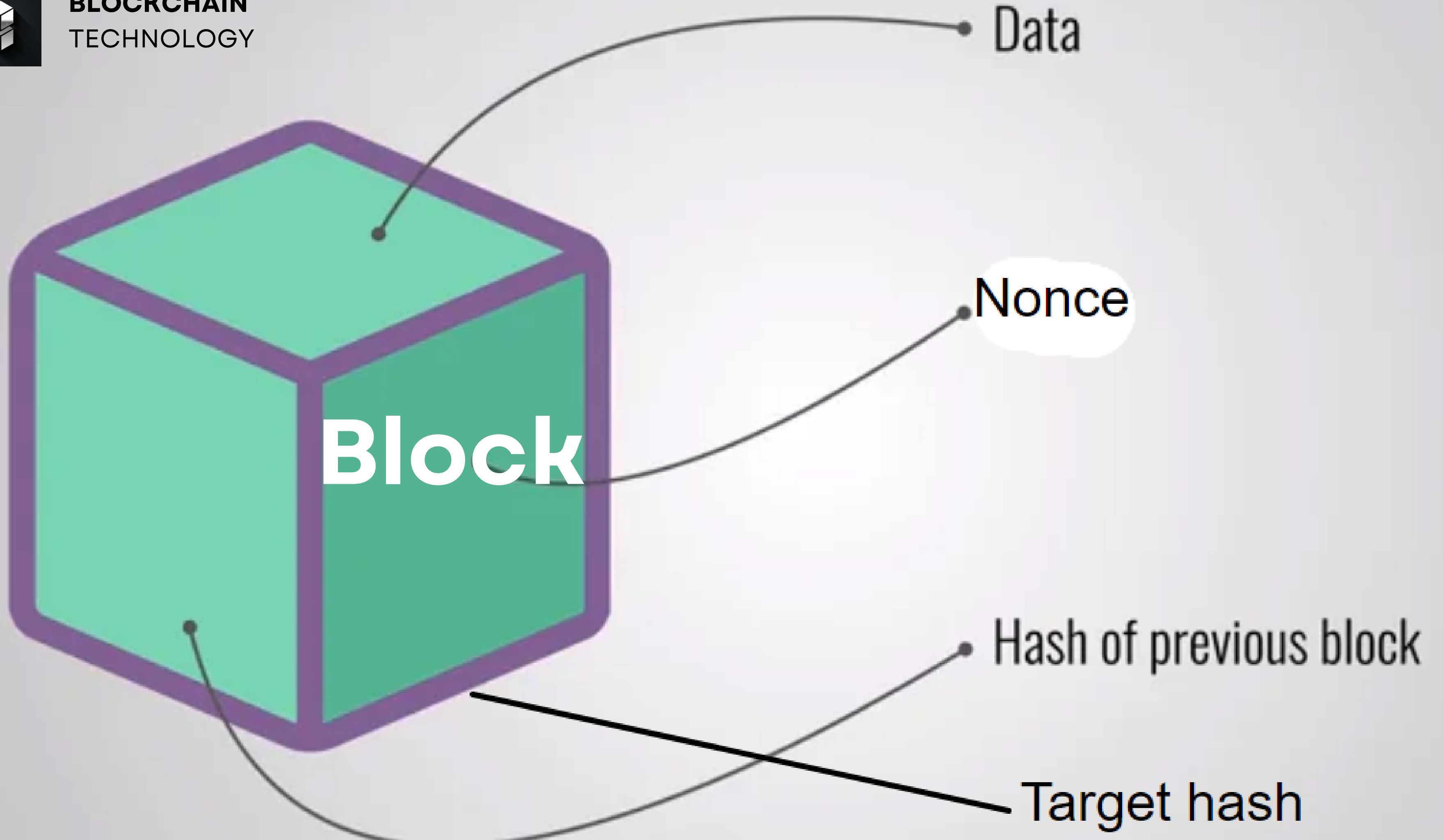


# Blockchain





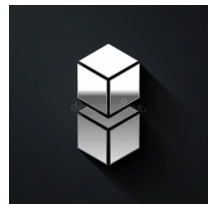
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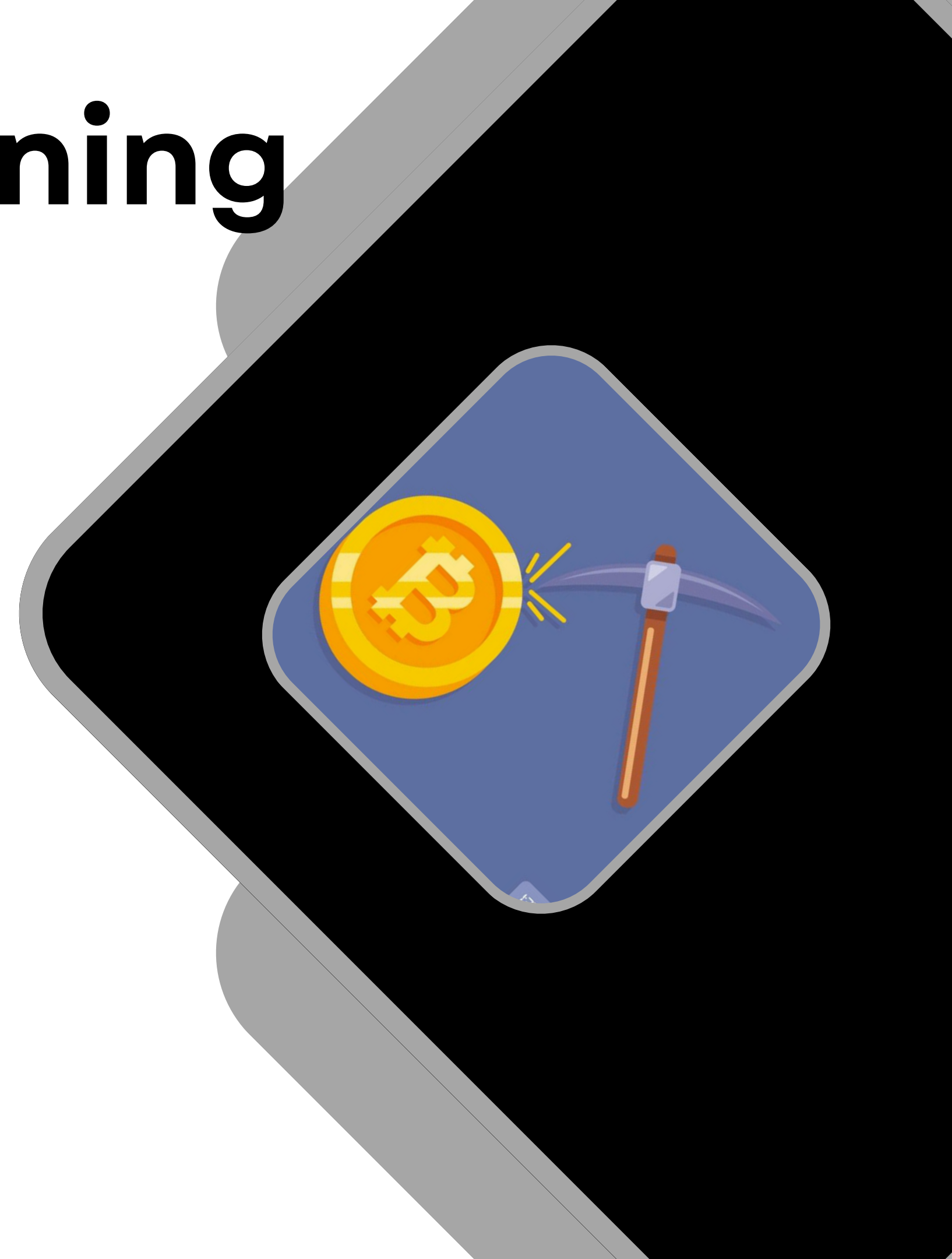
# Hashing

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	9abbaa0c54fcd028ac51bede2608d06e8d3a026784e34adfacc14fadd143d212c



# Bitcoin mining

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





# Nonce - hit and trial

## Blockchain

Block: # 1

Nonce: 79262

Data: This is the first block.

Prev: 00

Hash: 0000900507dc9ce2d00abfd247105139f1bfbce734f280c384e

Mine

Block: # 2

Nonce: 83617

Data: Second block

Prev: 0000900507dc9ce2d00abfd247105139f1bfbce734f280c384e

Hash: 0000b19ff296c1f726c0df423a4bd95489ad0ffddd78cc0c219

Mine

Block: # 3

Nonce: 18594

Data: Third block

Prev: 0000b19ff296c1f726c0df423a4bd954

Hash: 0000801cbb28b9893fc6f8009689d520

Mine



# Immutability

## Blockchain

**Block:** # 1

**Nonce:** 54890

**Data:** This is the not first block.

**Prev:** 00

**Hash:** 000089e8109a9242cdea5bd1bbd2084fcea4210dfd378937d2b

Mine

**Block:** # 2

**Nonce:** 83617

**Data:** Second block

**Prev:** 000089e8109a9242cdea5bd1bbd2084fcea4210dfd378937d2b

**Hash:** 9334909f35a867f50dd7a06336dc14aa81a0cc69adb3ef38aee

Mine

**Block:** # 3

**Nonce:** 18594

**Data:** Third block

**Prev:** 9334909f35a867f50dd7a06336dc14aa81a0cc69adb3ef38aee

**Hash:** d95f6aba1fc021f008c60678f001b841

Mine



# BLOCKCHAIN TECHNOLOGY

Peer A

Block: # 1

Nonce: 11316

Data:

Prev: 00

Hash: 000015783b764259d382017d91a36d206d0600e2cbb3567748f46a33fe9297cf

Mine

Block: # 2

Nonce: 35230

Data:

Prev: 000015783b764259d382017d91a36d206d0600e2cbb3567748f46a33fe9297cf

Hash: 000012fa9b916eb9078f8d98a7864e697ae83ed54f5146bd84452cdfd043c19

Mine

Distributed

Peer B

Block: # 1

Nonce: 11316

Data:

Prev: 00

Hash: 000015783b764259d382017d91a36d206d0600e2cbb3567748f46a33fe9297cf

Mine

Block: # 2

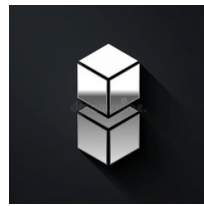
Nonce: 35230

Data:

Prev: 000015783b764259d382017d91a36d206d0600e2cbb3567748f46a33fe9297cf

Hash: 000012fa9b916eb9078f8d98a7864e697ae83ed54f5146bd84452cdfd043c19

Mine



# Network effect

- social media sites, languages, religion
- belief





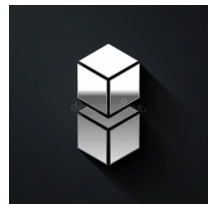


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# Ethereum

- Vitalik Buterin
- Smart Contracts
- Dapps





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# Applications

- Transparency
- Verification
- Intermediary





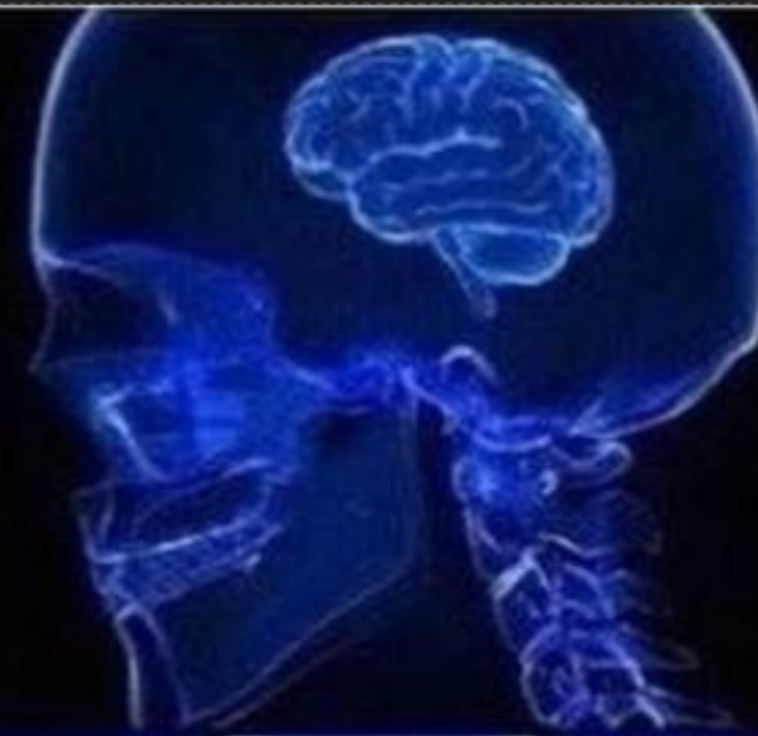
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# Applications

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



Work for  
money



Have money  
work for you



Create  
money

