

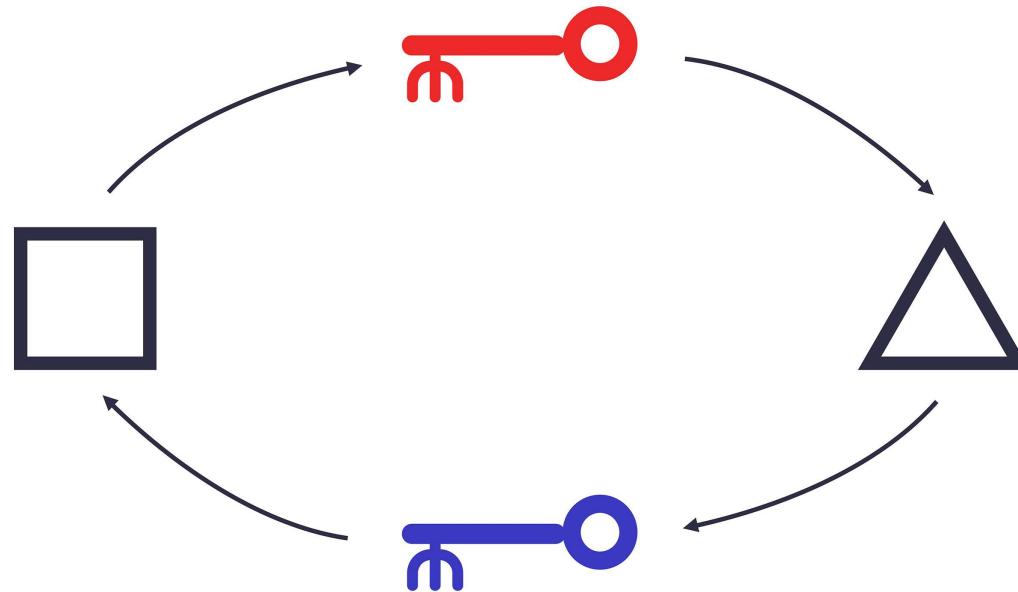
# How Blockchain Work

# Agenda

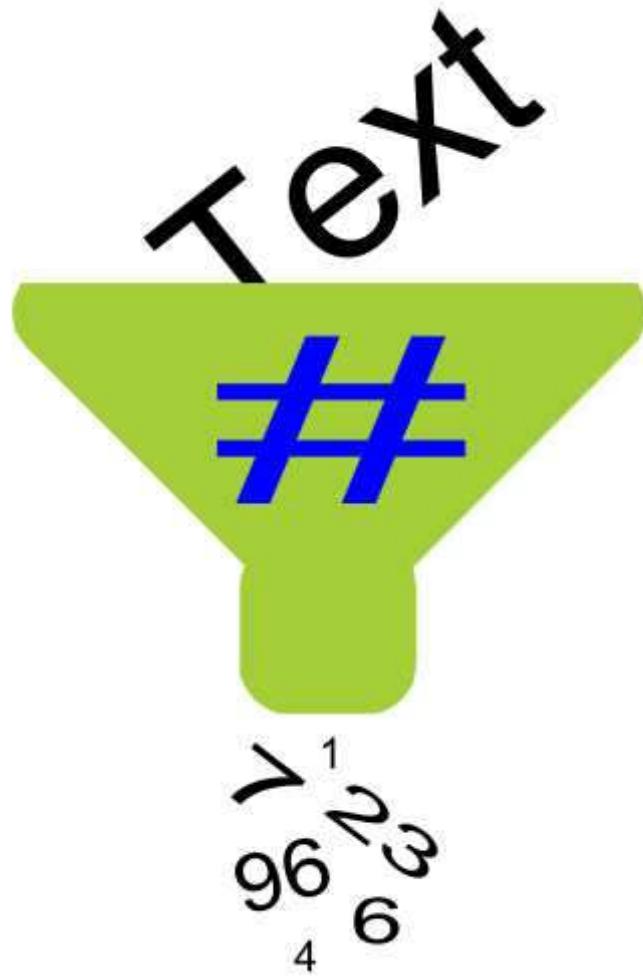
- Cryptography 101
- Bitcoin Blockchain
- Ethereum Blockchain

# Cryptography 101

# Public-Key Cryptography



# Hashing

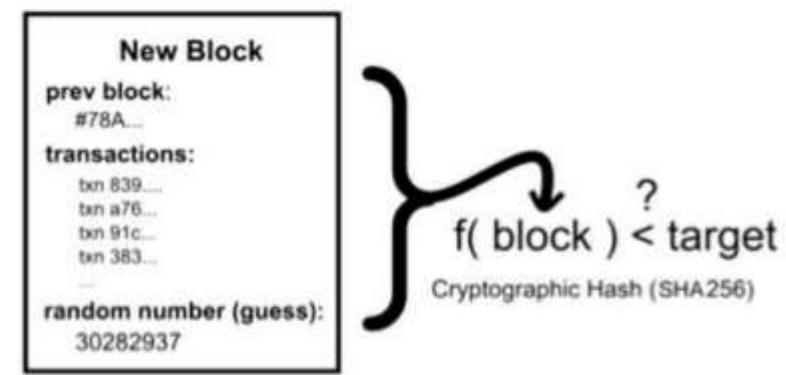


# Hashcash

## Proof of Work

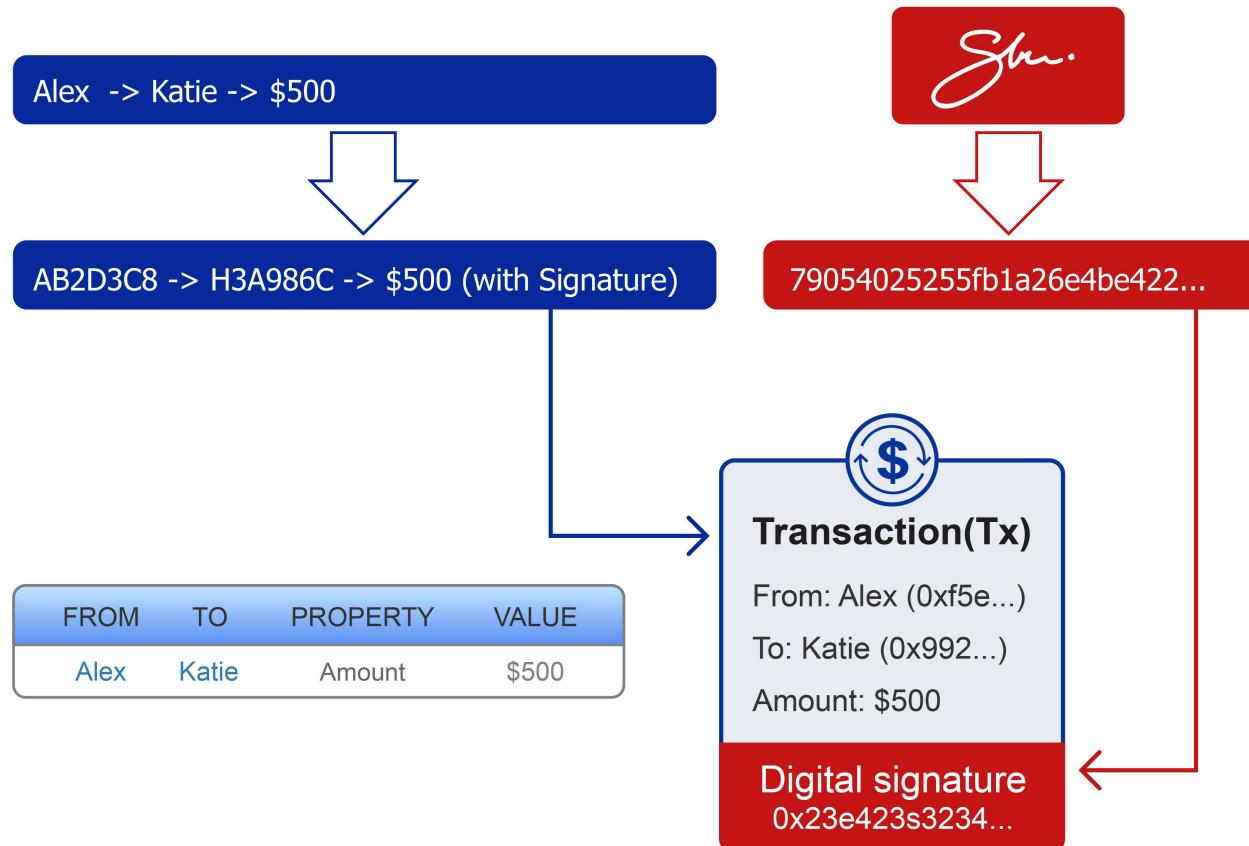
- BTC uses Adam Back **Hashcash** Proof of Work with configurable amount of work to compute
- Uses cryptographic hash SHA256

### Block Puzzle

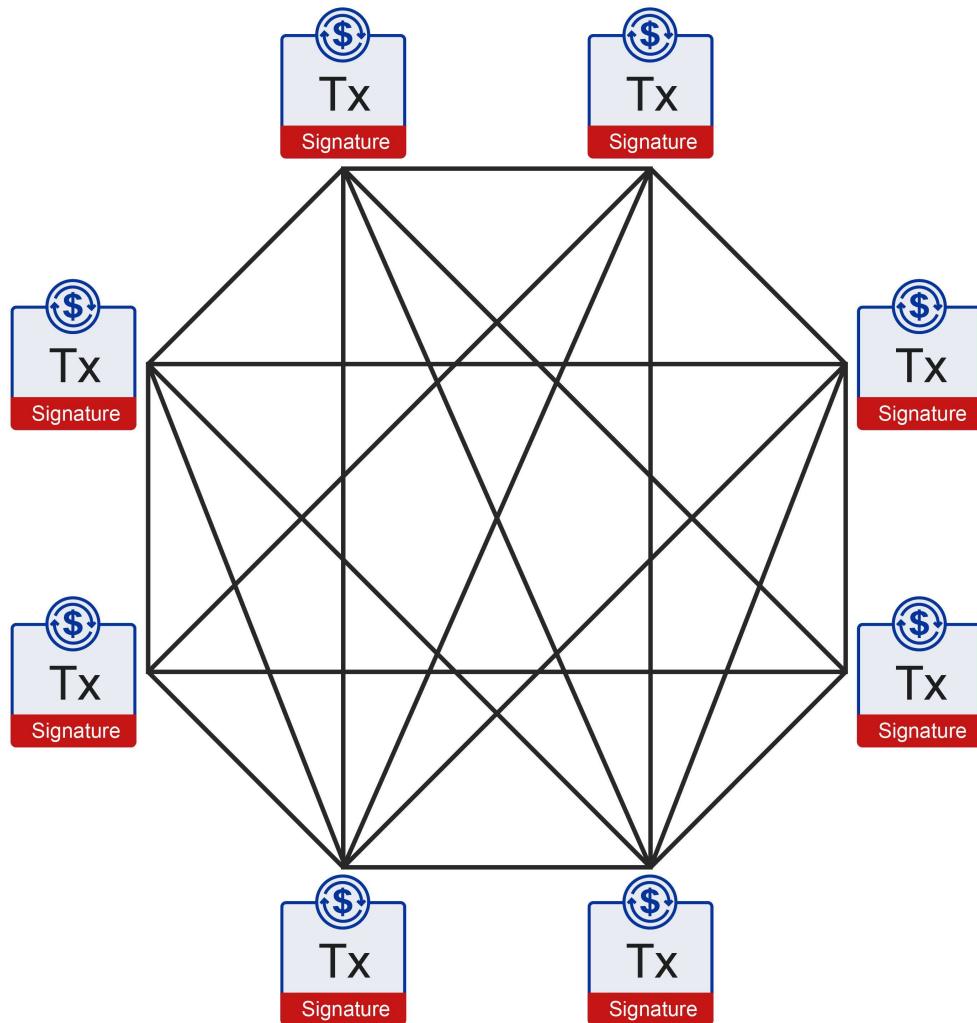


# Bitcoin Blockchain

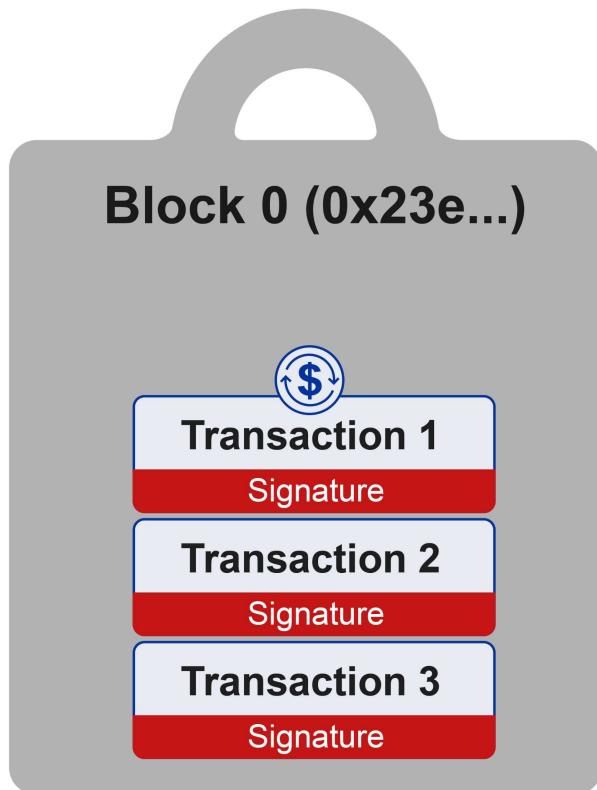
# Transactions



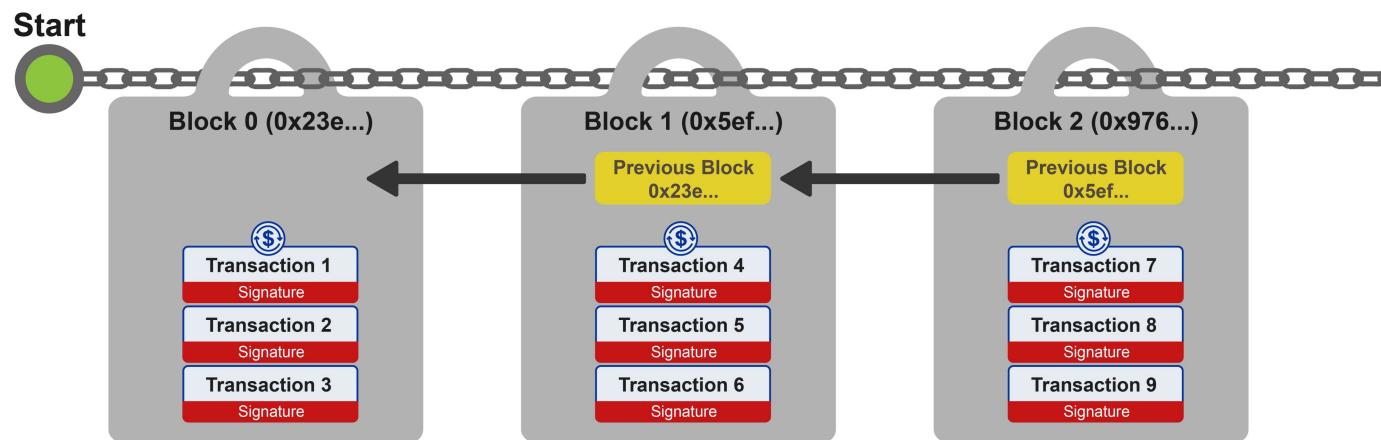
# Transactions



# A Block of Transactions



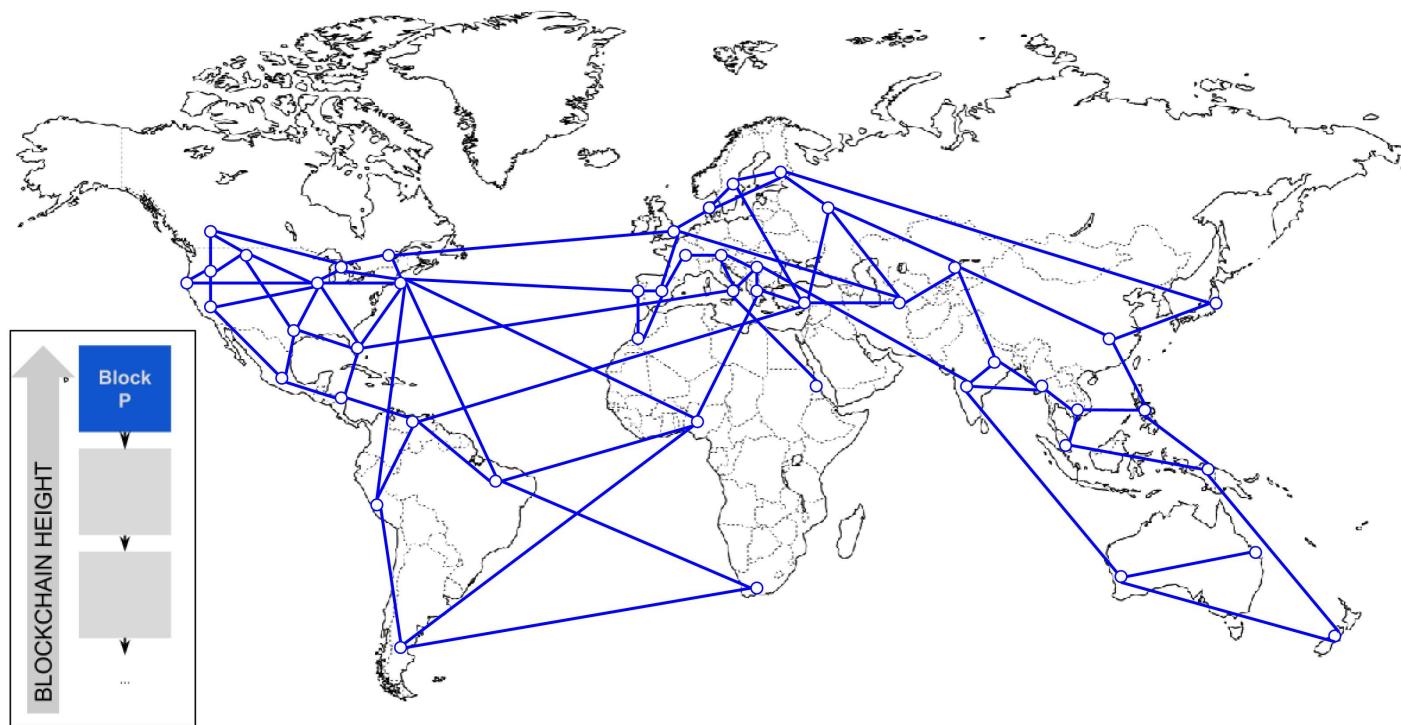
# Chain of Blocks



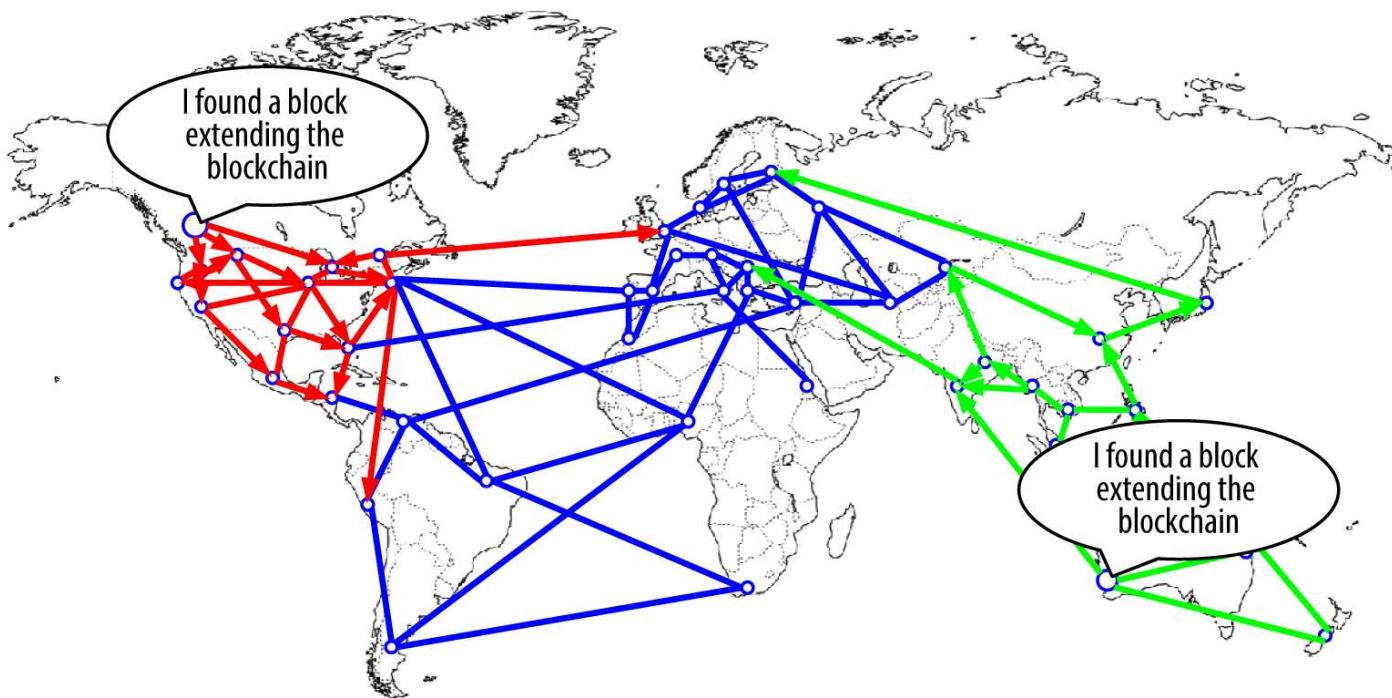
# Distributed Ledger



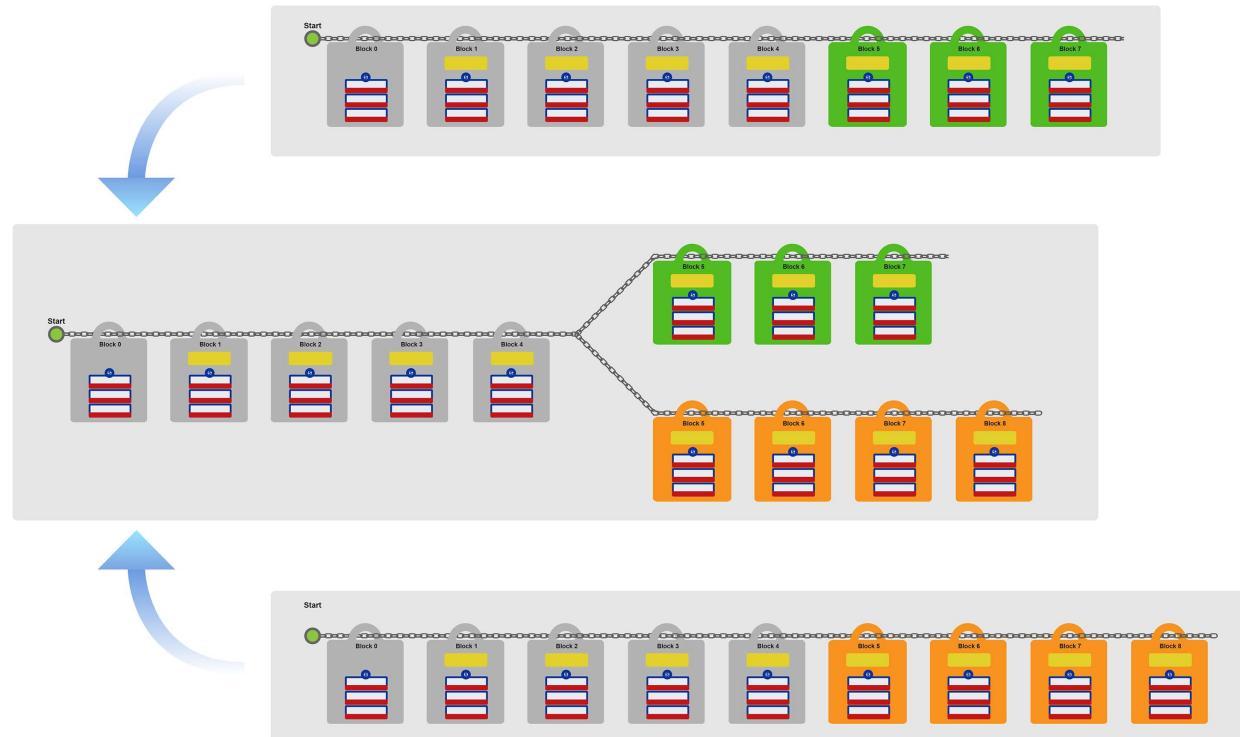
# Consensus Algorithm



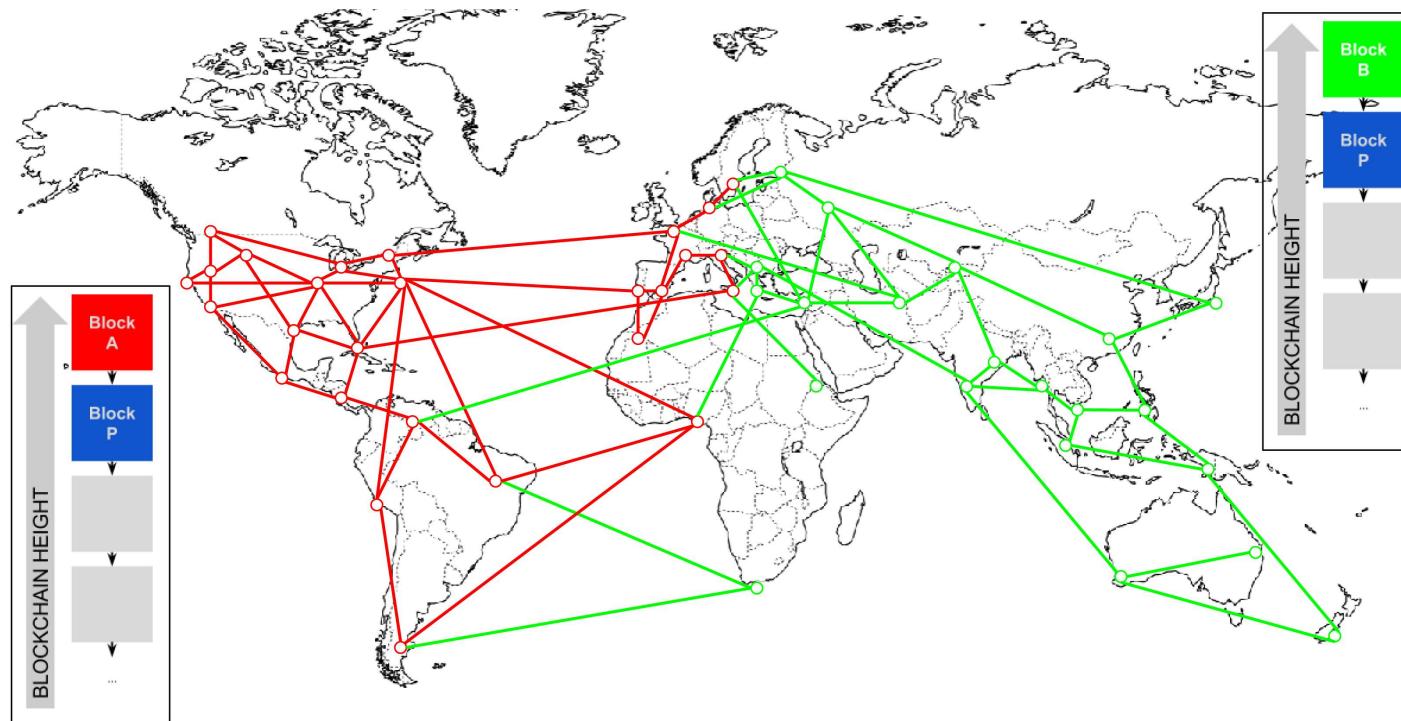
# Consensus Algorithm



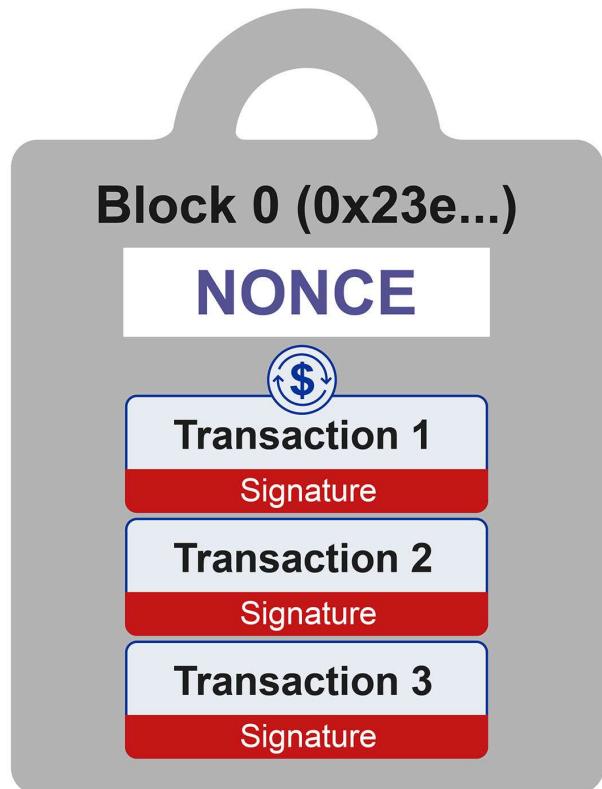
# Consensus Algorithm



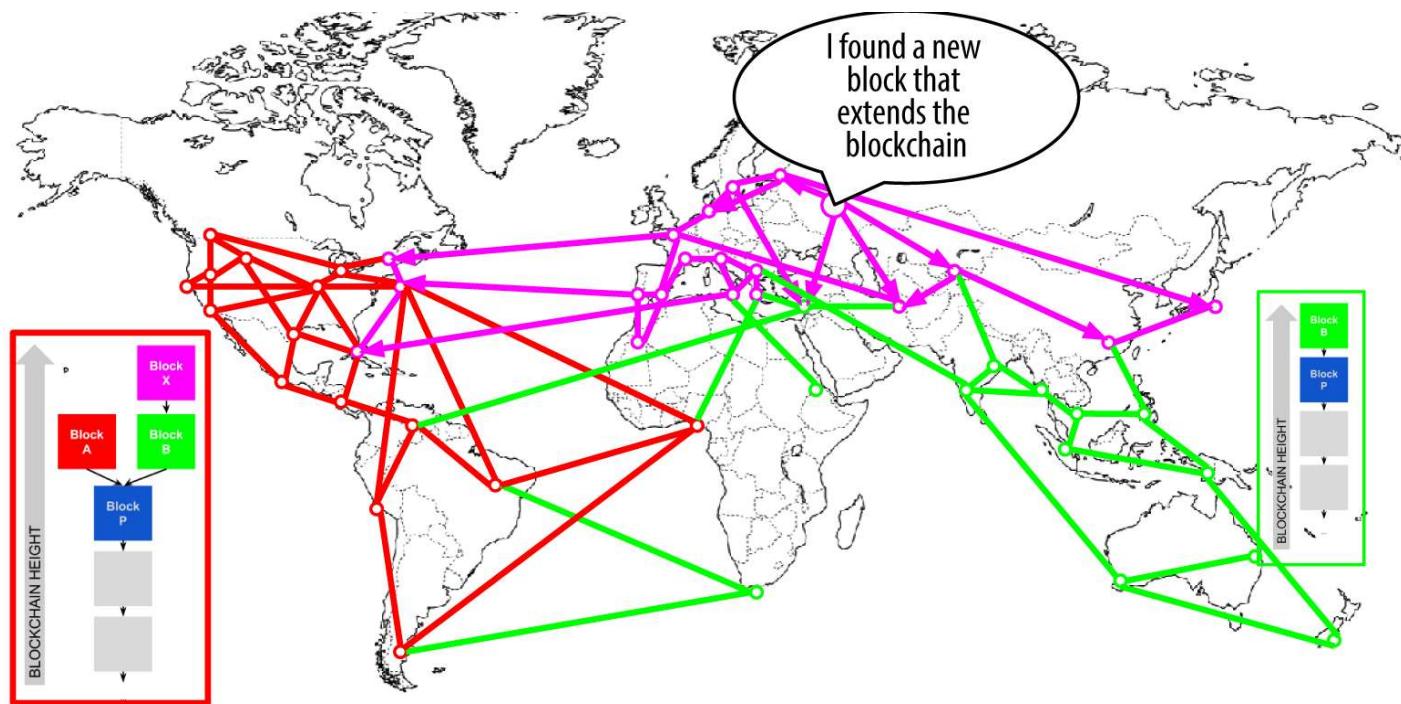
# Consensus Algorithm



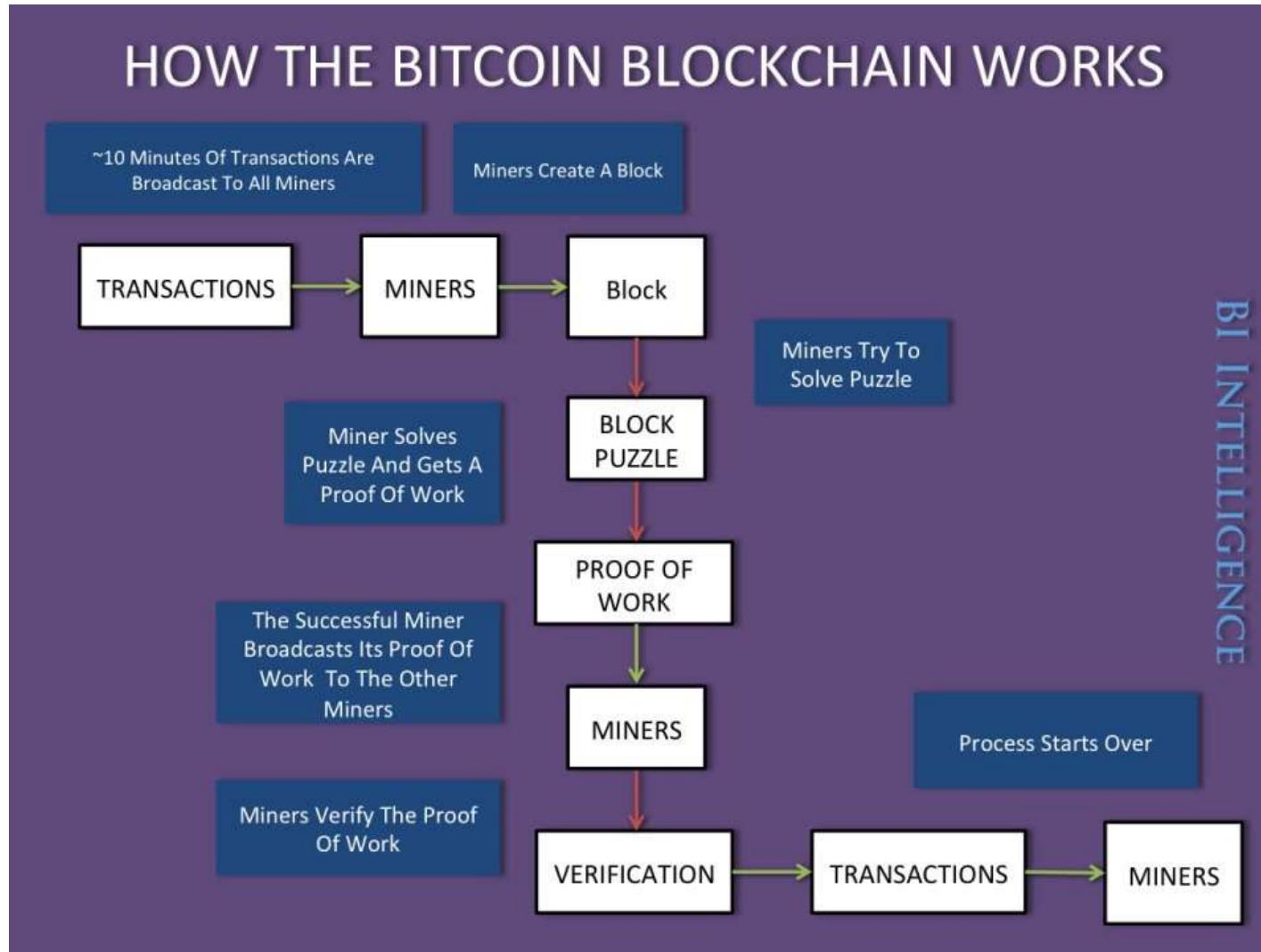
# A Complete Block of Transactions



# Consensus Algorithm



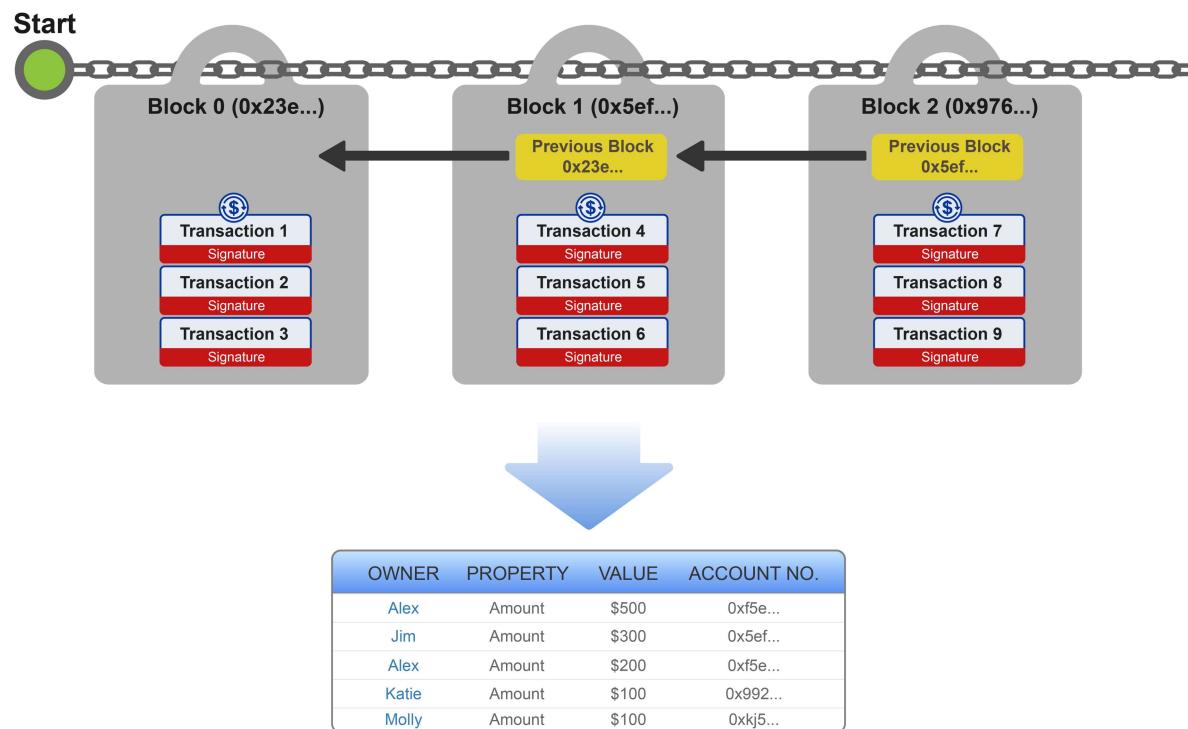
# Consensus Algorithm



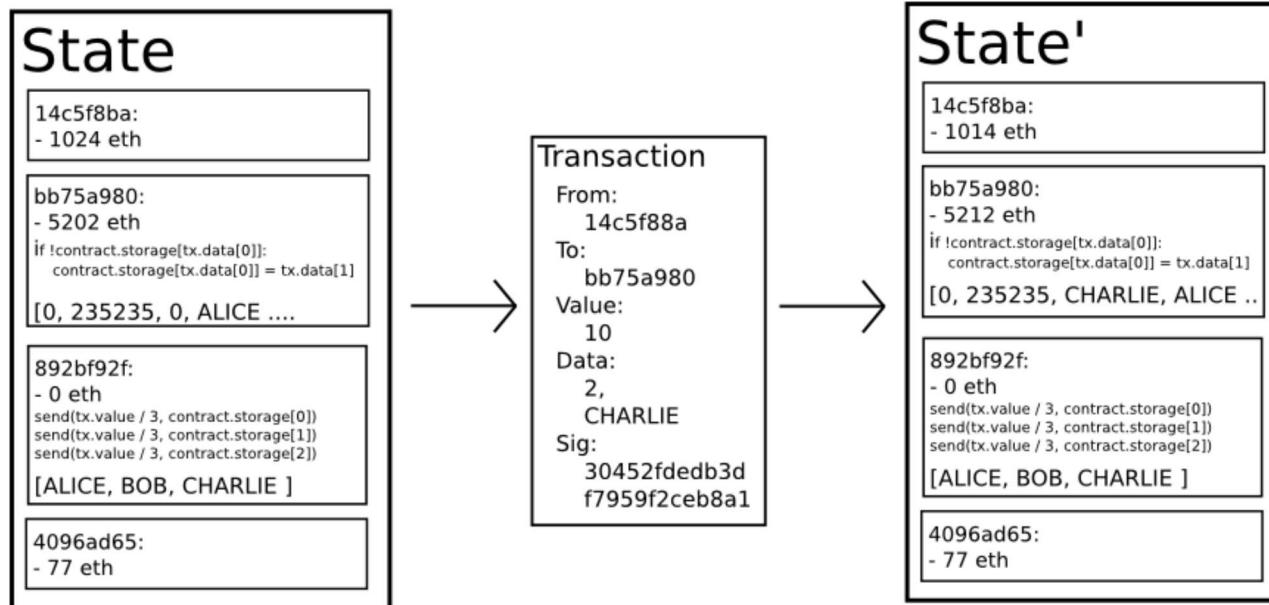
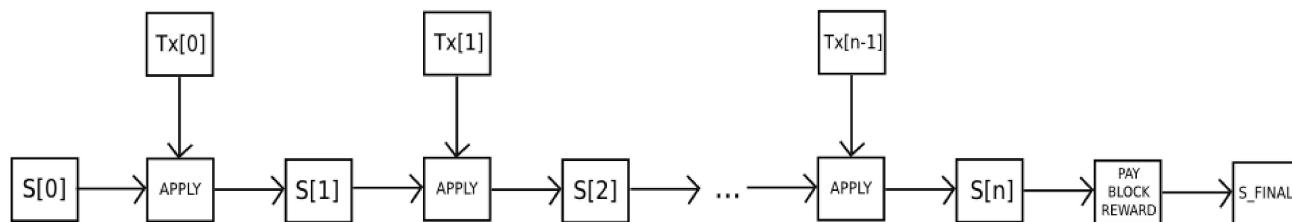
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# Ethereum Blockchain

# Blockchain as a Ledger



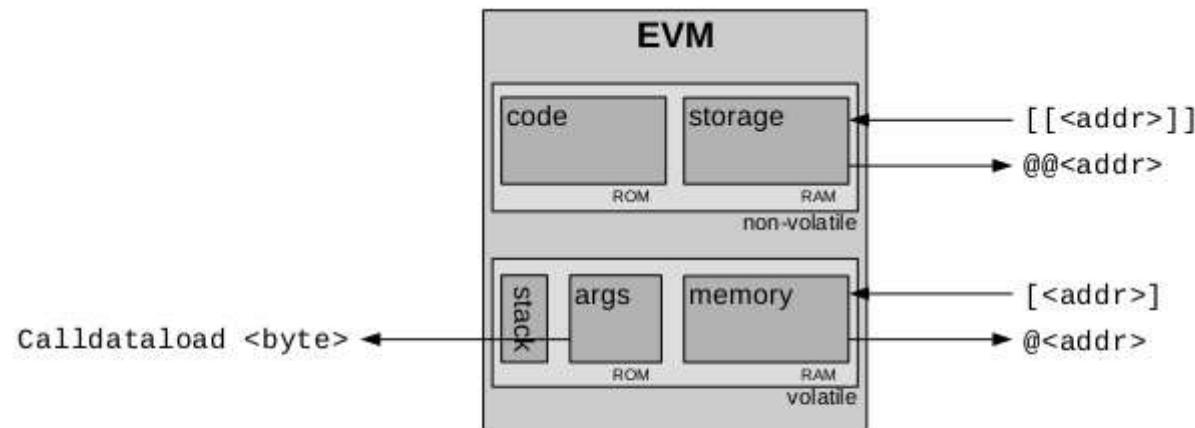
# Ethereum Blockchain



# Smart Contract



## Ethereum coding recap:



# Review

- Cryptography 101
- Bitcoin Blockchain
- Ethereum Blockchain