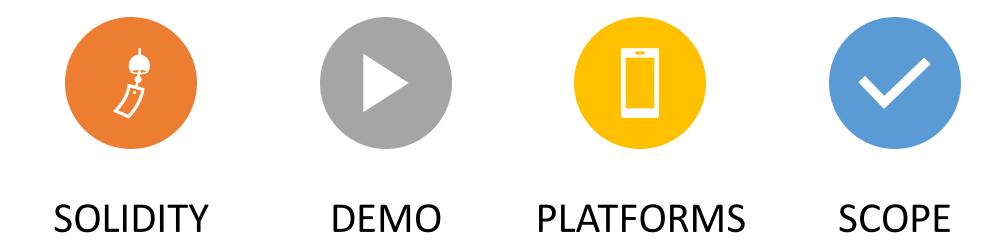


The Chain of Trust

Agenda



Agenda





Blockchain =/= Bitcoin

What?



Blockchain is gold



Bitcoin is jewelry



Immutable

What?



Distributed

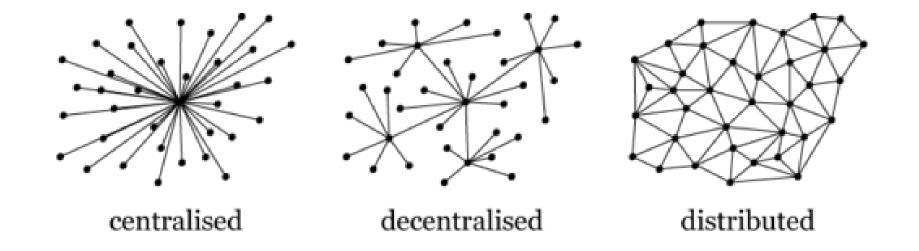


Ledger (Linked List)





Immutable



Distributed



Ledger

How?



Distributed Computing



P2P Connections



Hashing Algorithms



Merkle Tree



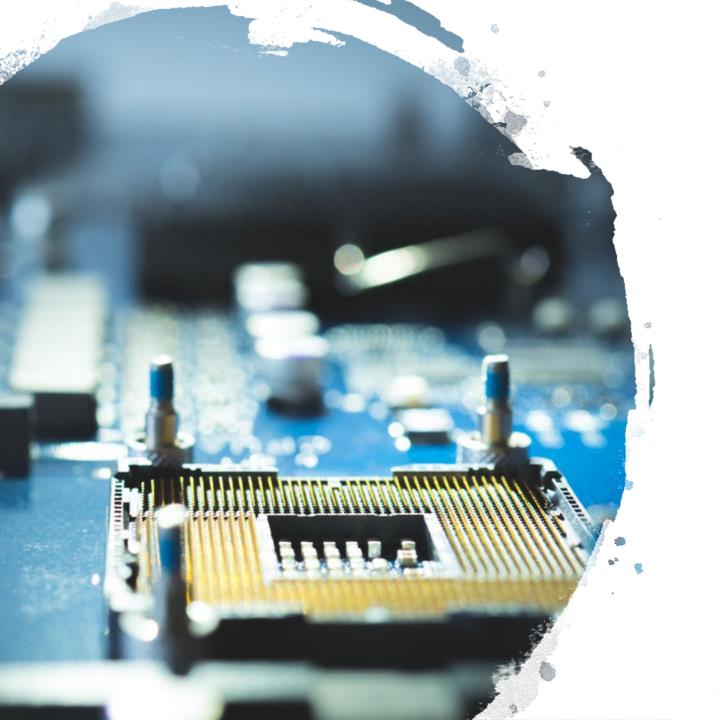
Consensus





Distributed Computing





P2P Connections

Hashing Algorithms



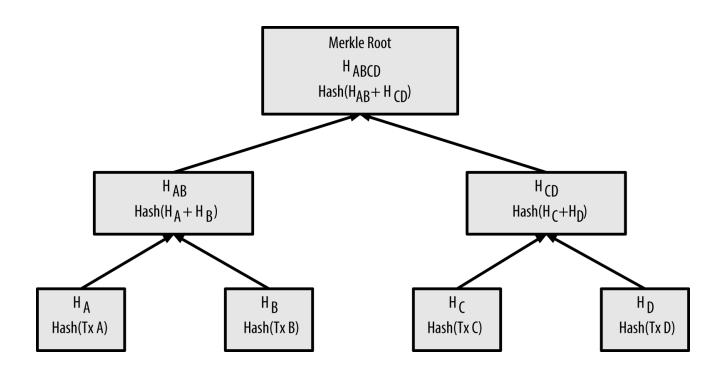
One Way Encryption



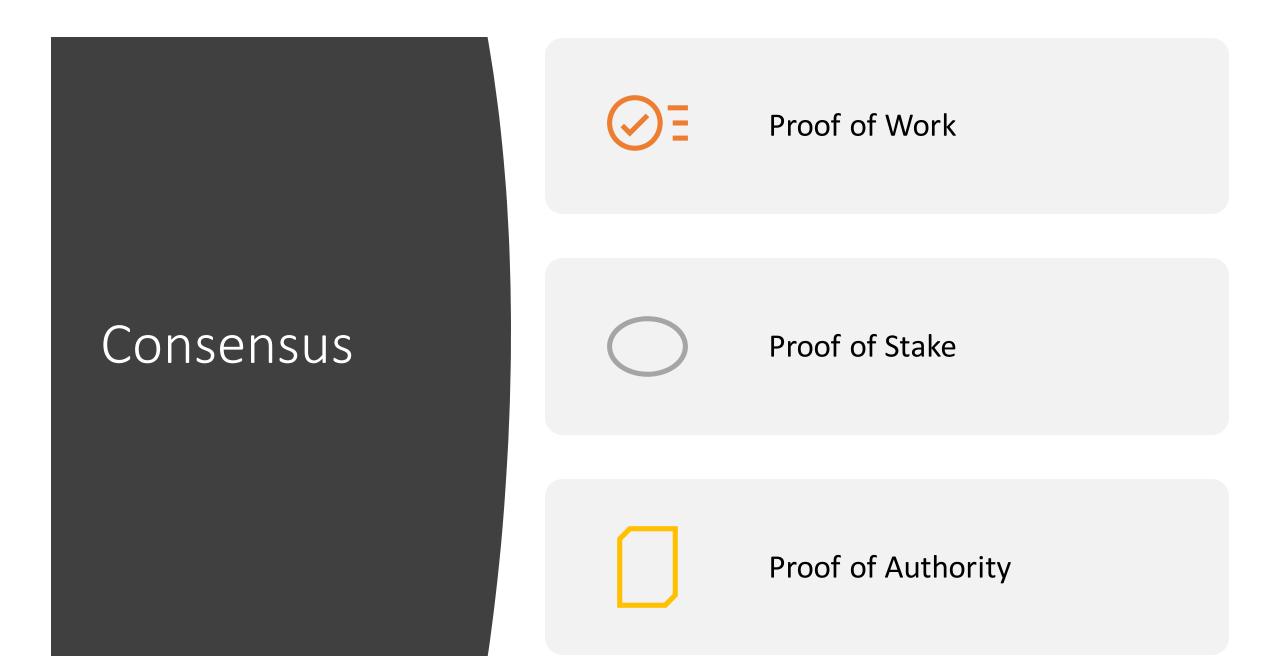
Avalanche Effect



Pre-Image Resistance



Merkle Tree





Crypto Currencies

Why?



IPFS / StorJ



DAPPs



Freedom

Why?



More Control



Democratic Internet

Types





PRIVATE

PUBLIC



Byzantine Fault Tolerance

Security Model



Identity



Cryptography



Byzantine Fault Tolerance

• 2 Generals Problem

Algorithm OM(m)

2 Generals Problem



Alice & Bob on sides of mountain



Mountain top enemy



Unison Attack



Communication Gap



Oral Message Algorithm

Algorithm OM(m)



Commander Sends message



Lt. Interprets message as 0 or 1

Identity











No Accounts

No Balances

No Addresses

No Coins

No PII

Cryptography





ECDSA



SHA

Smart Contracts





Ethereum State



Gas





Anything can be on blockchain

Solidity



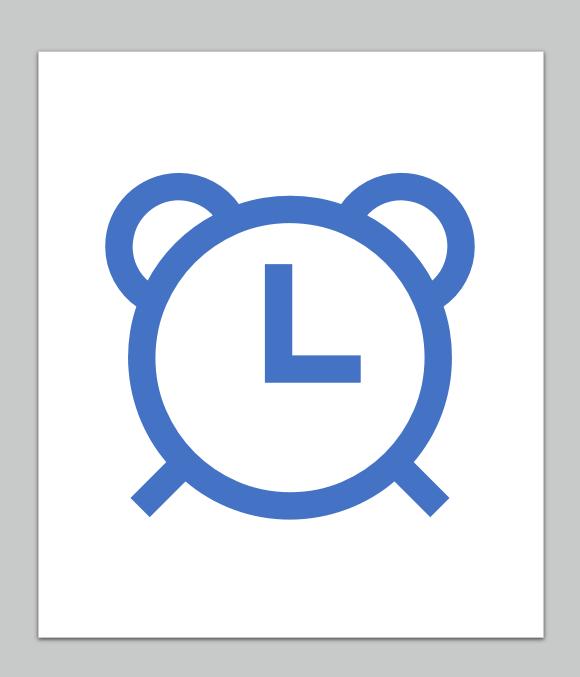
Object Oriented



Works on EVM



Language for Smart Contracts



Demo Time

Platforms



ETHEREUM



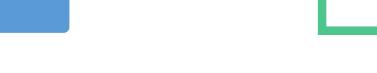
BITCOIN



HYPERLEDGER

Scope







Jobs

Disruption

New Internet

Jobs



SOLULAB



CYBER INFRASTRUCTURE INC.



YES BANK



IPFS



PIXEL CRAYONS

Disruption



Untapped Market



Web 3.0



Identity Management



Distributed AI

New Internet



Q/A



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