

Consensus® by coindesk® Consensus Consensu

Ethereum 101

Blockchain Where It All Happens

Guests: Austin Griffith, Omna Toshniwal



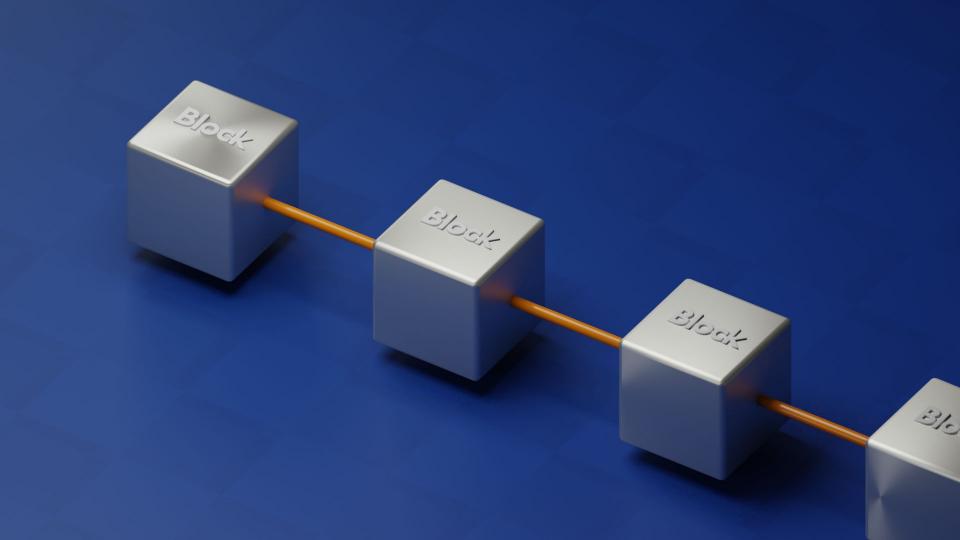


What is **Ethereum?**

"Ethereum is the community-run technology powering the cryptocurrency, ether (ETH) and thousands of decentralized applications." - ethereum.org

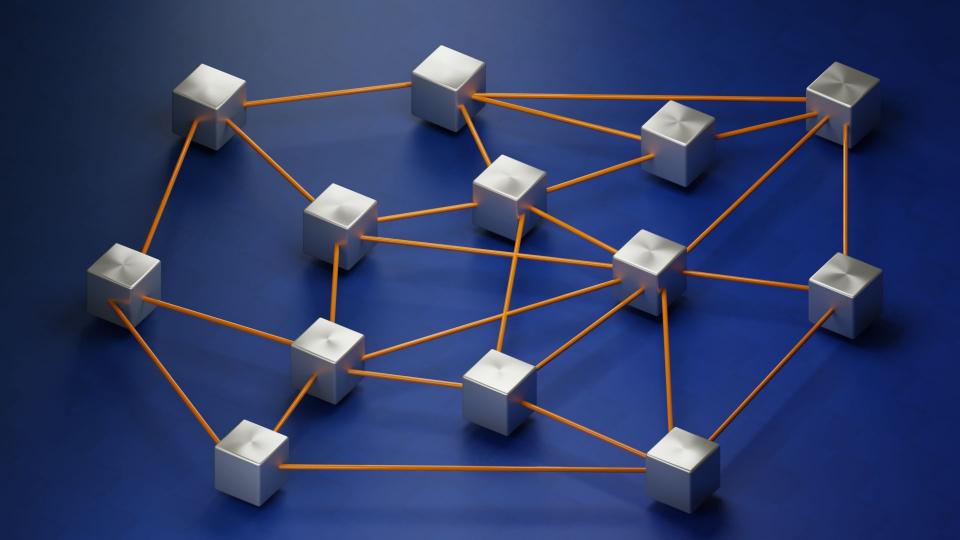


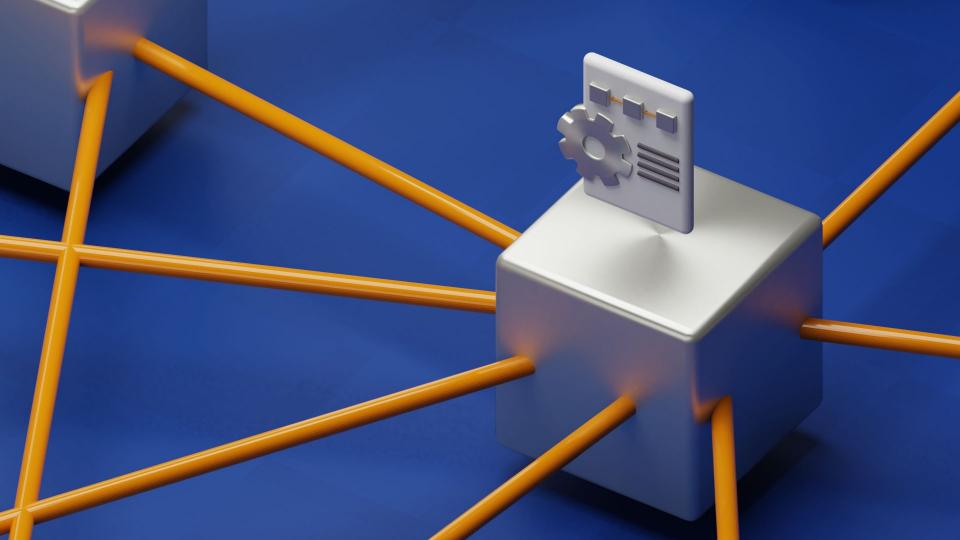
What does a blockchain look like?



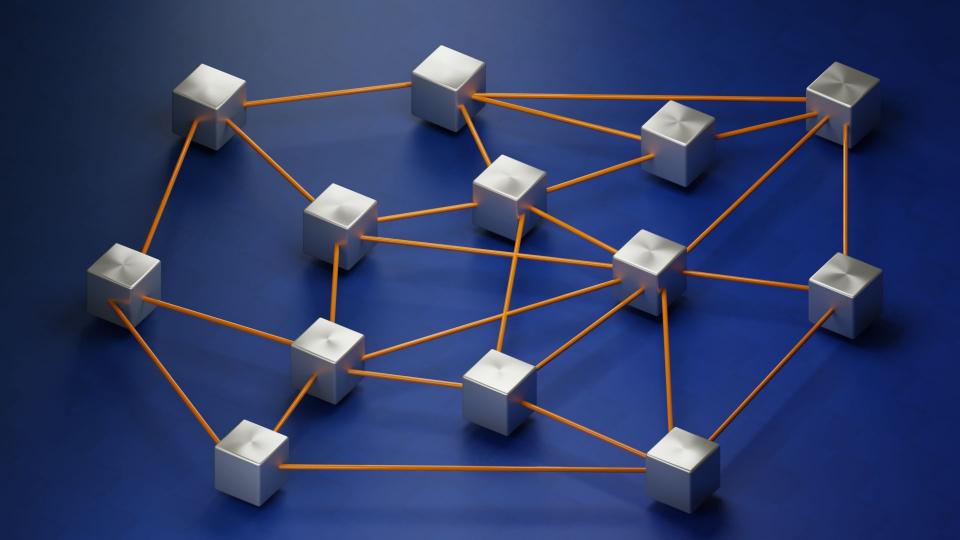


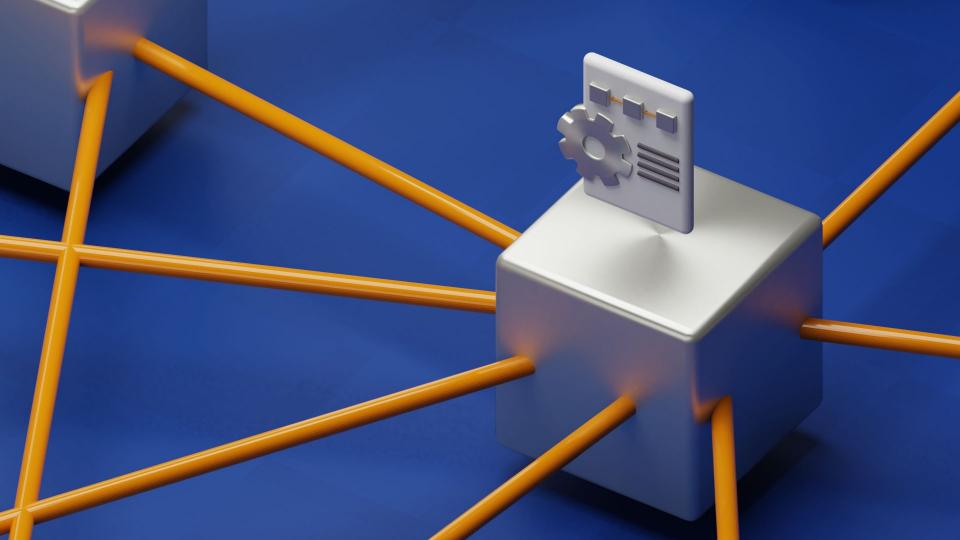
What does a blockchain <u>look</u> like?

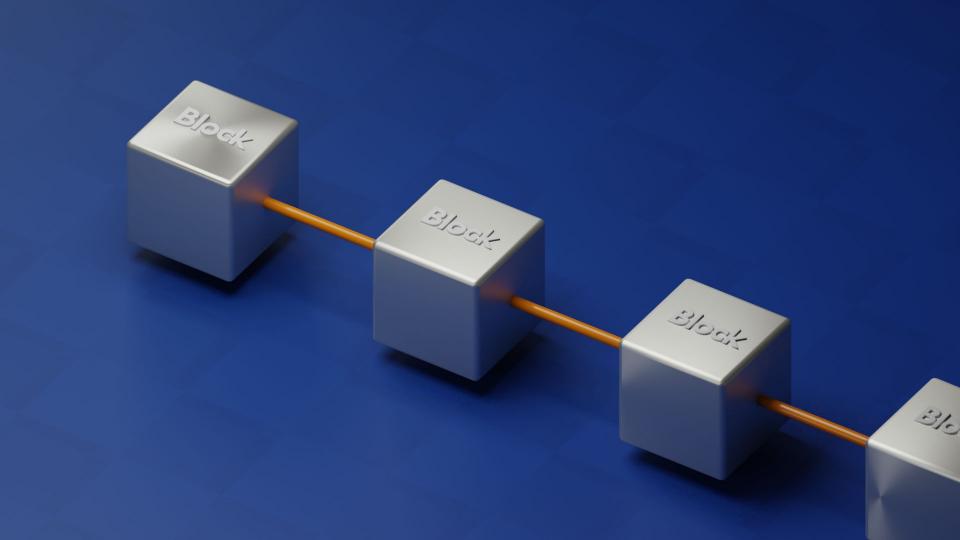




What does Ethereum <u>look</u> like?

















Ethereum 101

```
// SPDX-License-Identifier: MIT
pragma solidity ^0.7.6;
contract Counter {
    uint public count;
   // Function to get the current count
    function get() public view returns (uint) {
        return count;
   // Function to increment count by 1
    function inc() public {
        count += 1;
   // Function to decrement count by 1
    function dec() public {
        count -= 1;
```

What are Ethereum's superpowers?

- Ease of Innovation
- Trustless / "Code is Law" / Unstoppable
- Permissionless
- Censorship Resistant
- Composability

Why decentralization?

- Distribute power In centralized system, there is too much dependency on who's in power. And things typically work out fine, till they don't.
- Less corruptible Something that is collectively owned and transparent is inherently more trustworthy.

Why decentralize finance?

 Access to financial services - Internet brought a library to people whose neighborhood didn't have one.

Could we do the same for people who have limited access to a trustworthy financial infrastructure & services?

Why decentralize finance?

- New ownership models Native digital currency can change how people own assets and exercise their rights of ownership
 - Anyone can be an investor
 - Anyone can be a bank / provide liquidity
 - Anyone can borrow despite their bank balance

What is a wallet?

Your key to the digital economy. METAMASK



An interface that lets people

- Create a (or multiple) digital identities
- Access your funds / digital assets
- Access and interact with dApps
 - Sign an agreement
 - Authorize a payment
 - Prove ownership of assets

Choose your own ETH adventure!

- Early use cases
 - Tokens, ENS, Multi-sigs, Prediction Markets
- DeFi
 - Stablecoins, Lending, Leverage, AMMs, LPs, Yield Farming, Redirected Yield
- NFTs
 - Creator Economy, Art/Collectibles, Music, Game Assets, so much more!

... more adventures ...

- DAOs / Governance
 - Moloch / Coordination problem
- Bounties / Grants
 - Quadratic Funding
- Games
 - Primitive card collecting games -> dark forest zk fog of war

Challenges & new developments

So expensive! Slow!	Layer 2s and sidechains
Async. Complicated. Intimidating.	More user-friendly experiences
Self-custody: empowering yet unfamiliar, feels risky	Safeguards, decentralized key management strategies
Environmental concerns	POW => POS

The Future!

- Scalability Layer 2, EIP–1559, ETH2, POS merge!
- Adoption More and more new users and builders are speed running the Ethereum mental model every day.

What will they create next?

Radical change takes time

- Giant experiment People building upon the new concepts that Ethereum enabled. Early adopters took the risks to play with the applications. Now attracting more people.
- Spectrum of decentralization Builders are exploring how to make this radical shift gentle. Balancing new/future forward concepts with familiar concepts.



ether.delivery



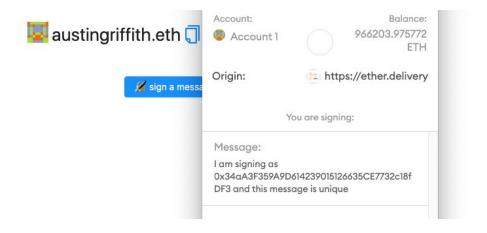


ether.delivery

Connect Ethereum Wallet







ether.delivery



Thanks!

- Get Started with Ethereum: ethereum.org
- Download and install MetaMask: <u>metamask.io</u>
- Developers! Get started building: <u>scaffoldeth.io</u>

@omnatoshniwal
@austingriffith