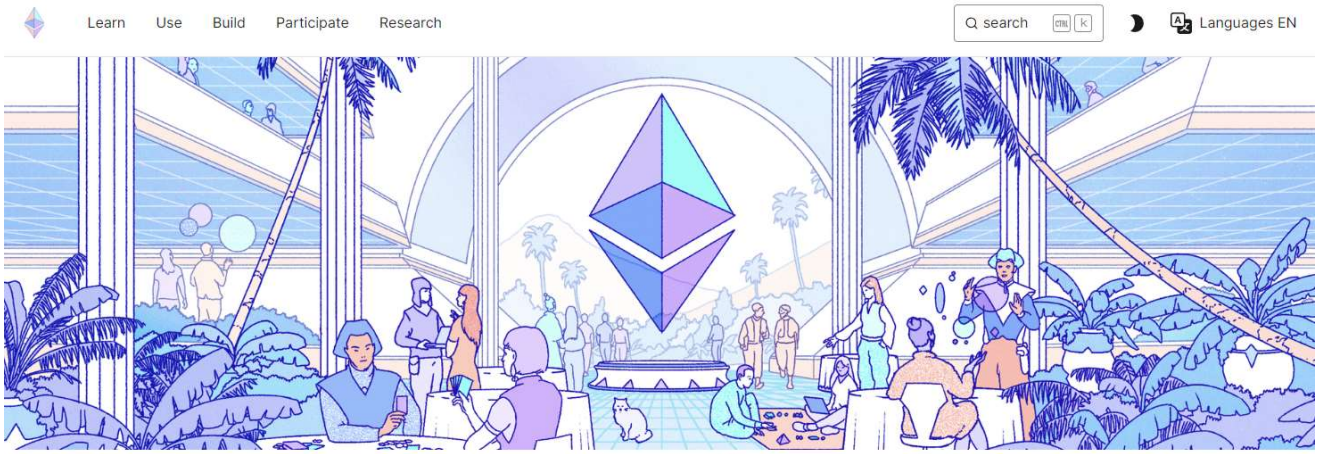
Introduction to Ethereum

What is Ethereum?



What is Ethereum?

Cryptocurrencies, such as bitcoin, enable anyone to transfer money globally. Ethereum does too, but it can also run code that enables people to create apps and organizations. It's both resilient and flexible: any computer program can run on Ethereum. Learn more and find out how to get started:

Summary

Ethereum is a network of computers all over the world that follow a set of rules called the Ethereum protocol. The Ethereum network acts as the foundation for communities, applications, organizations and digital assets that anyone can build and use.

You can create an Ethereum account from anywhere, at any time, and explore a world of apps or build your own. The core innovation is that you can do all this without trusting a central authority that could change the rules or restrict your access.

Keep reading to learn more...

What can Ethereum do?

Banking for everyone

Not everyone has access to financial services. But all you need to access Ethereum and the lending, borrowing and savings products built on it is an internet connection.

An open internet

Anyone can interact with Ethereum network or build applications on it. This allows you to control your own assets and identity, instead of them being controlled by a few mega-corporations.

A peer-to-peer network

Ethereum allows you to coordinate, make agreements or transfer digital assets directly with other people. You don't need to rely on intermediaries.

Censorship-resistant

No government or company has control over Ethereum. Decentralization makes it nearly impossible for anyone to stop you from receiving payments or using services on Ethereum.

Commerce guarantees

Customers have a secure, built-in guarantee that funds will only change hands if you provide what was agreed. Likewise, developers can have certainty that the rules won't change on them.

Composable products

All apps are built on the same blockchain with a shared global state, meaning they can build off each other (like Lego bricks). This allows for better products and experiences and assurances that no-one can remove any tools apps rely upon.

Why would I use Ethereum?

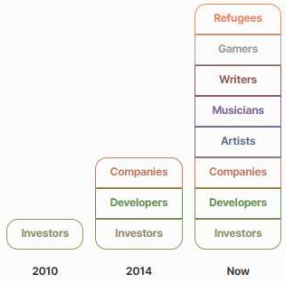
If you're interested in more resilient, open, and trustworthy ways to coordinate globally, create organizations, build apps and share value, Ethereum is for you. Ethereum is a story that is written by all of us, so come and discover what incredible worlds we can build with it together.

Ethereum has also been invaluable for people who have had to handle uncertainty around the security or soundness or mobility of their assets due to external forces outside of their control.

Cheaper and Faster Crossborder Payments

Stablecoins are a novel type of cryptocurrency that relies on a more stable asset as the basis for its value. Most of them are linked to the United States dollar and therefore maintain the value of that currency. These allow for a very cheap and stable global payment system. Many current stablecoins are built on the Ethereum network.

Ethereum and stablecoins simplify the process of sending money overseas. It often takes only few minutes to move funds across the globe, as opposed to the several business days or even weeks that it may take your average bank, and for a fraction of the price. Additionally, there is no extra fee for making a high value transaction, and there are zero restrictions on where or why you are sending your money.



Ethereum in numbers

4k+	96M+	53.3M+
Projects built on Ethereum	Accounts (wallets) with an ETH balance	Smart contracts on Ethereum
$410B	$3.5B	1.277M
Value secured on Ethereum	Creator earnings on Ethereum in 2021	Number of transactions today

Introduction to smart contracts

Smart contracts are the fundamental building blocks of Ethereum's application layer. They are computer programs stored on the blockchain that follow "if this then that" logic, and are guaranteed to execute according to the rules defined by its code, which cannot be changed once created.

Nick Szabo coined the term "smart contract". In 1994, he wrote an introduction to the concept, and in 1996 he wrote an exploration of what smart contracts could do.

Szabo envisioned a digital marketplace where automatic, cryptographically-secure processes enable transactions and business functions to happen without trusted intermediaries. Smart contracts on Ethereum put this vision into practice.

Finematics: Smart Contracts

- https://www.youtube.com/watch?v=pWGLtjG-F5c

Beginner friendly 👍

A few dapps that are good for beginners. Explore more dapps below.

Uniswap

Swap your tokens with ease. A community favourite that allows you to trade tokens with folks across the network.

FINANCE

Open Uniswap

OpenSea

Buy, sell, discover, and trade limited-edition goods.

COLLECTIBLES

Open OpenSea

Gods Unchained

Strategic trading card game. Earn cards by playing that you can sell in real life.

GAMING

Open Gods Unchained

Ethereum Name Service

User-friendly names for Ethereum addresses and decentralized sites.

SOCIAL

Open Ethereum Name Service