

Create Your Own Cryptocurrency

A Visual Guide to Building an ERC-20 Token

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Module H: Hands-On Workshops | 2026

What Is a Token?



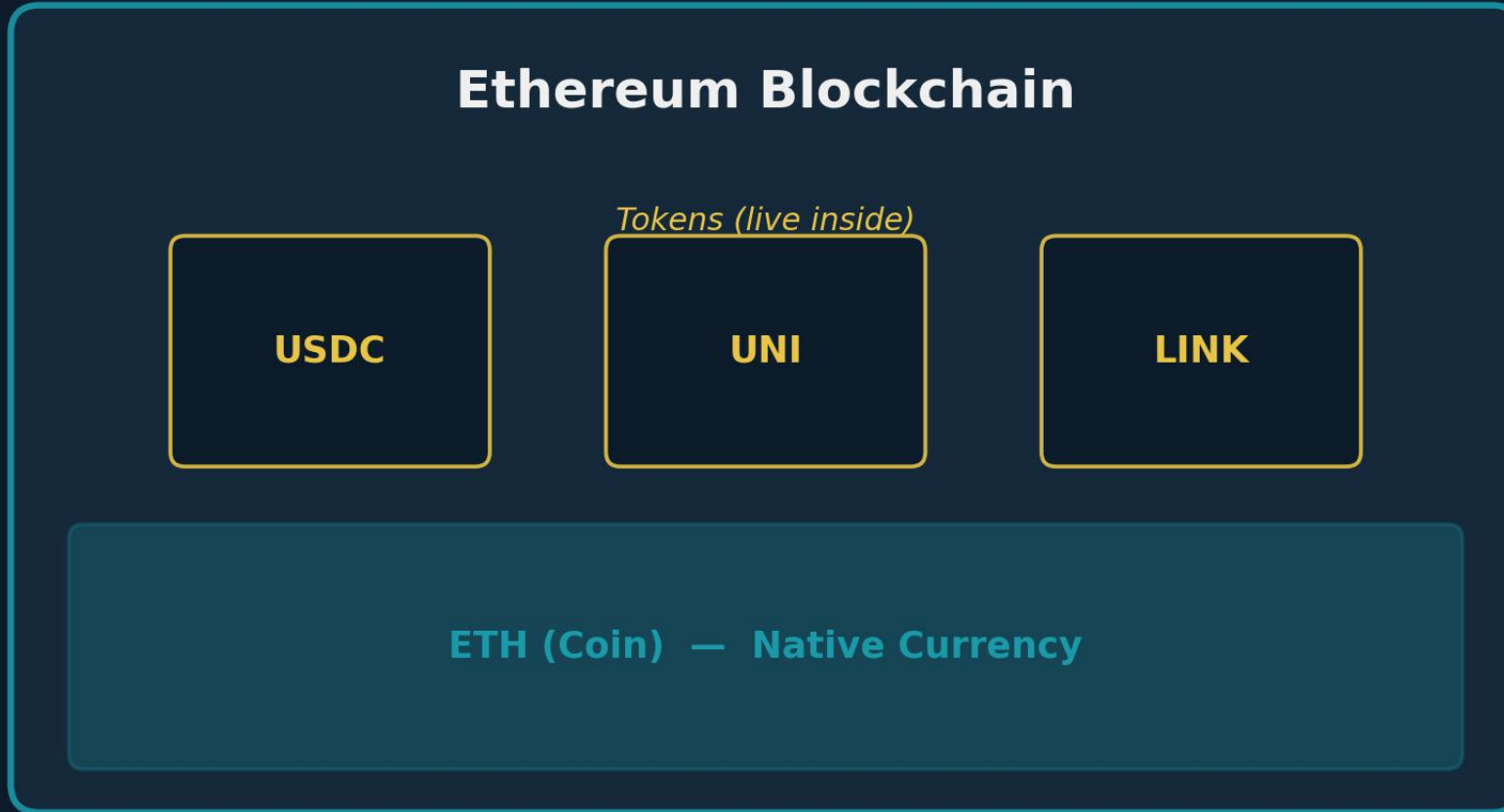
Native to blockchain
Like the dollar is
native to the USA



Built ON a blockchain
Like a gift card built
on Visa's network

Today you'll create your own token on Ethereum!

Token vs Coin



Tokens live INSIDE the blockchain, coins ARE the blockchain

The ERC-20 Standard

totalSupply

How many tokens exist?

balanceOf

How many does this wallet have?

transfer

Send tokens to someone

approve

Allow someone to spend yours

transferFrom

Spend tokens you're approved for

allowance

Check spending limit set

6 functions that every token must have

Your Token's Passport

TOKEN IDENTITY CARD

Name: CoolToken

Symbol: COOL

Total Supply: 1,000,000

Decimals: 18

You choose these values when you create your token

OpenZeppelin = Safety



Audited Code

Reviewed by
security experts

Battle-Tested

Used by 1000s
of projects

Industry Standard

The safest way
to build tokens

Don't write crypto code from scratch!

Design Your Token

Supply

Fixed at creation
or mintable later?

Burnable?

Can tokens be
permanently destroyed?

Mintable?

Can new tokens
be created later?

Pausable?

Can transfers be
frozen in emergency?

Every design choice affects your token's economics

Three Steps to Create



Step 1 — Write Your Token

Import OpenZeppelin

Use audited
ERC-20 base

Name & Symbol

Choose your token's
identity

Set Supply

How many tokens
to create?

Inherit ERC20

Your contract gets
all 6 functions

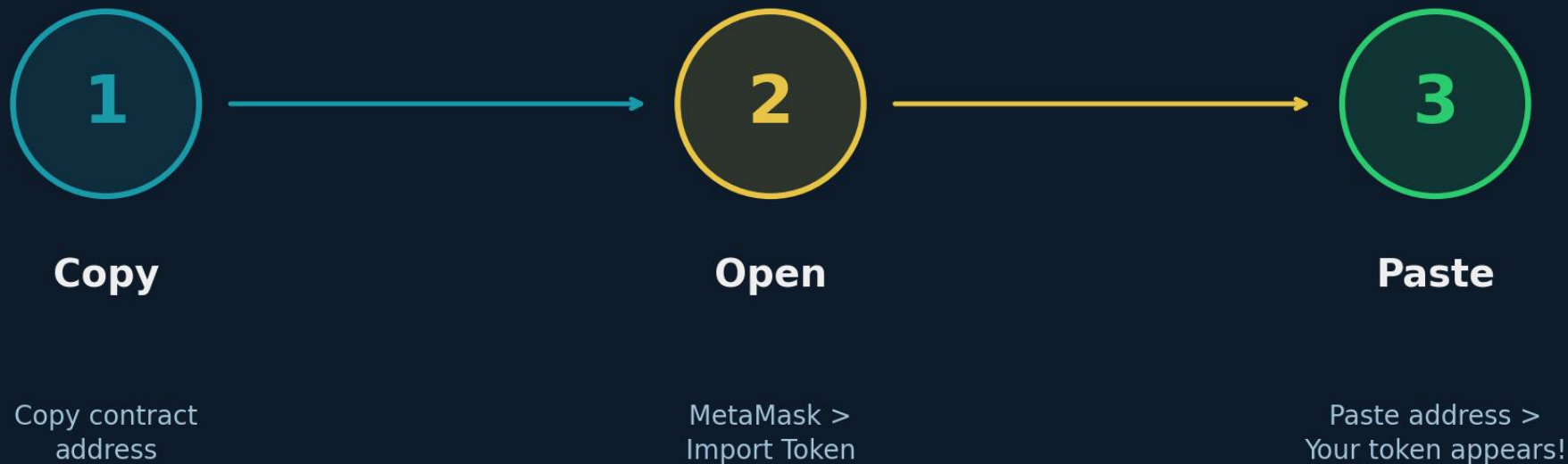
OpenZeppelin does the heavy lifting!

Step 2 — Deploy to Sepolia



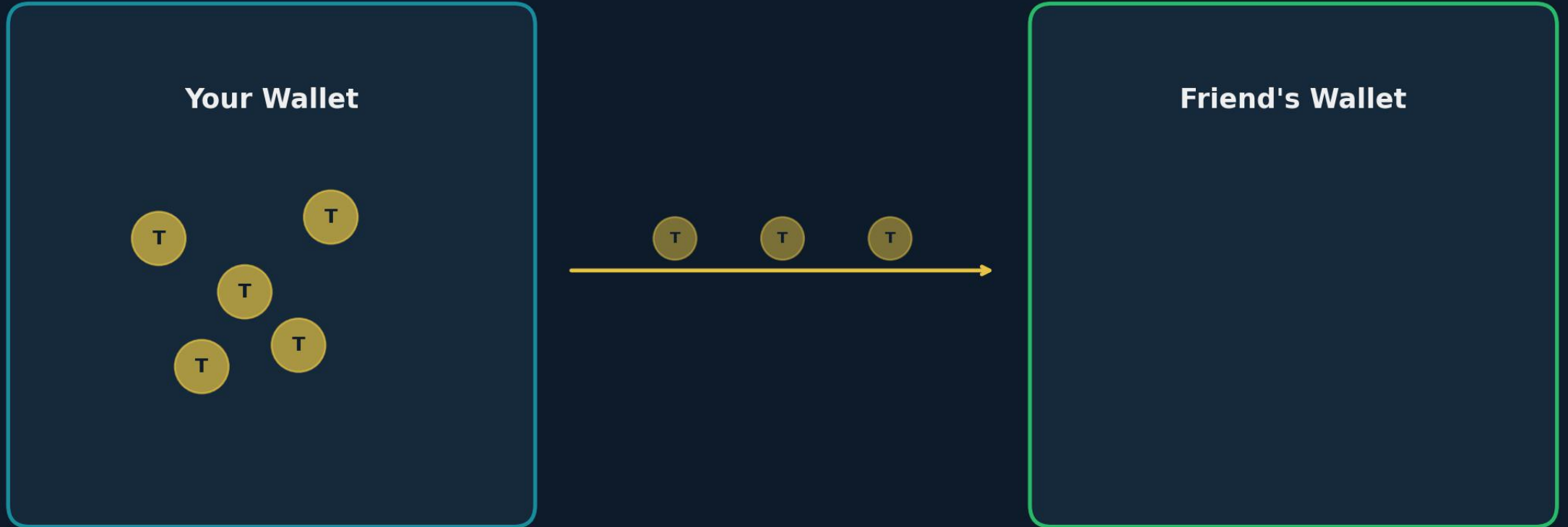
Your token gets a unique contract address!

Step 3 — Add to MetaMask



Now your token is visible in your wallet!

Transfer Tokens to a Friend



Just like sending an email — but with money!

What Can You Do Next?

LP

Add to DeFi

Create a liquidity pool for trading

DAO

Create a DAO

Use tokens for voting power

dApp

Build a dApp

Token-powered application

Your token is just the beginning!

You Created a Cryptocurrency!

Your token is LIVE on the blockchain

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