

# ERC-20 Token Creation: Course Preview

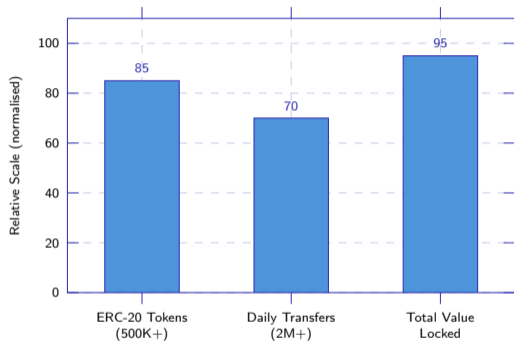
## INTRO Preview

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University Lecture Series

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# Why Token Standards Matter



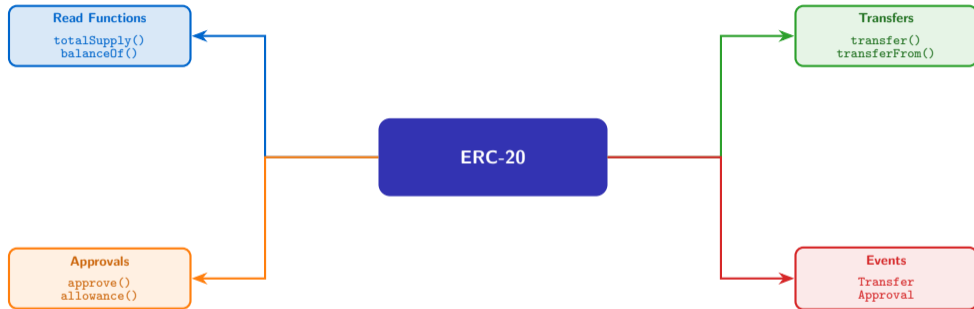
## Key Metrics

- ✓ **500K+** ERC-20 tokens deployed
- ✓ **2M+** token transfers per day
- ✓ **90%+** of DeFi TVL in ERC-20 assets
- ✓ **Single standard** enables universal wallet support

20 is the most widely adopted token standard in crypto history

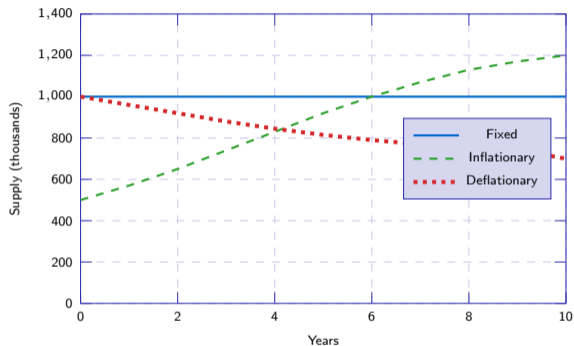
ERC-

# The ERC-20 Interface at a Glance



contract implementing these 8 elements is ERC-20 compliant

Any



## Supply Models

- ✓ **Fixed** — hard cap, predictable scarcity (e.g. BTC-like)
- ✓ **Inflationary** — minting rewards participants (e.g. staking tokens)
- ✓ **Deflationary** — burn mechanisms reduce supply over time

model choice fundamentally shapes token value and adoption

Supply



## Prerequisites

- ✓ Basic Solidity / programming knowledge
- ✓ Familiarity with Ethereum accounts & gas

## Outcomes

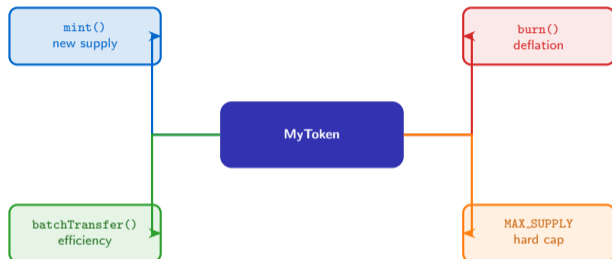
- ✓ Implement a fully compliant ERC-20 token
- ✓ Design and deploy custom tokenomics

standards to deployment in 55 frames

From

## Project Deliverables

- ✓ **MyToken contract** — full ERC-20 with mint & burn
- ✓ **Deploy script** — Hardhat deployment to testnet
- ✓ **Test suite** — unit tests for all functions
- ✓ **Tokenomics design** — supply model & vesting schedule



**By the end:** deploy your own ERC-20 token to a testnet and verify it on a block explorer.

the end you will deploy your own ERC-20 token to a testnet

By