

CeloLearn: Beginner's Guide to the Celo Blockchain

Introduction

CeloLearn is an open educational initiative designed to make blockchain learning accessible to everyone — powered by AI and built on the Celo ecosystem.

This guide compiles the first series of CeloLearn tutorials, created during Proof of Ship – Season 9, focusing on the core components of the Celo blockchain: wallets, stablecoins, and smart contracts.

1. Understanding the Celo Wallet

The Celo Wallet is your gateway to interacting with the Celo blockchain.

It allows users to send, receive, and store digital assets, including stablecoins like cUSD and cEUR.

Key Points

- Create your Celo Wallet using Valora or MetaMask.
- Store and transfer assets securely.
- Use phone numbers as public keys for easy transactions.

Quick Exercise

Create a test wallet and send a small transaction on Celo's Alfajores testnet to understand gas fees and confirmations.

2. Stablecoins on Celo

Celo offers stablecoins such as cUSD and cEUR, pegged to real-world currencies.

They make crypto transactions practical for daily use and reduce volatility.

Key Points

- Stablecoins maintain a 1:1 peg using reserve assets.
- cUSD and cEUR are the main stablecoins on Celo.
- They enable low-cost, global, mobile-first payments.

Quick Exercise

Swap between cUSD and CELO on a testnet DEX (like Ubeswap) and observe the transaction flow.

3. Simple Smart Contract on Celo (overview)

Smart contracts are the backbone of decentralized applications (dApps).

Celo supports Solidity-based contracts that can be deployed with minimal setup.

Key Points

- Smart contracts automate blockchain logic.
- Celo uses Ethereum-compatible tools like Remix and Truffle.
- Gas fees can be paid in stablecoins (e.g., cUSD).

Quick Exercise

Use Remix to deploy a simple "Hello World" contract on the Celo testnet.

Conclusion

With these tutorials, CeloLearn offers the first step toward understanding the Celo ecosystem. From wallets to stablecoins to smart contracts, this guide lays the foundation for hands-on blockchain learning.

Project Info

- **Project:** CeloLearn
- **Proof of Ship Season:** 9
- **Platform:** Karma GAP
- **Repository:** <https://github.com/JiRaYaOG/CeloLearn>