Sui 101
Introduction to Sui

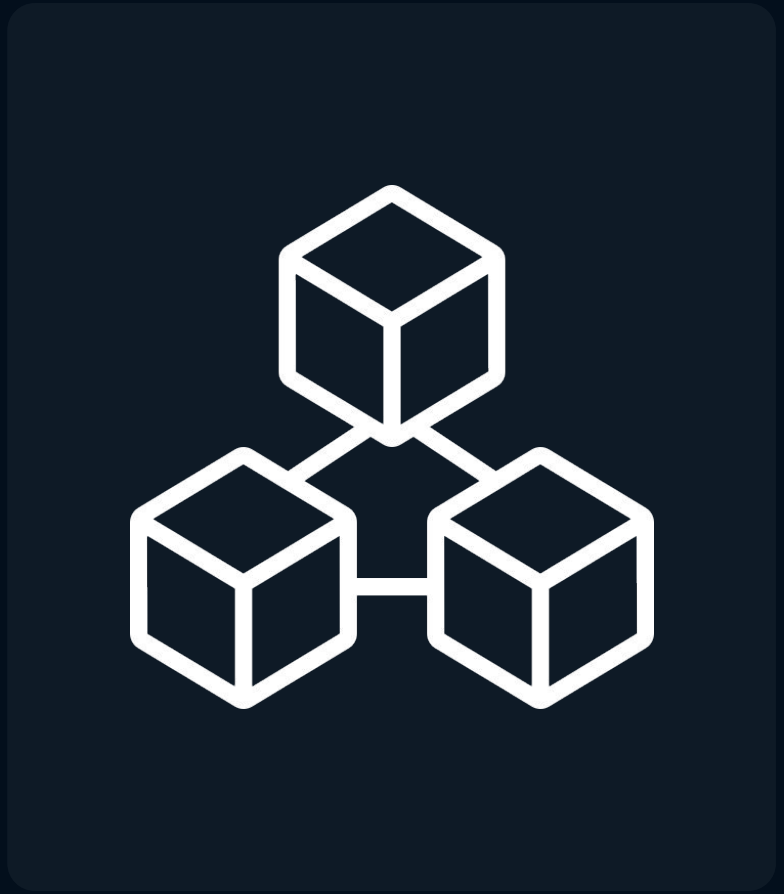
Audience: Students, Web2 Devs, Crypto Curious

Learning Objective

- Understands the basics of Sui and blockchain
- Set up a Sui wallet to interact with the network
- Mint an NFT on the Sui blockchain

What is a blockchain?

- Distributed ledger technology
- Immutable and transparent record-keeping
- Transactions stored across a network of computers



What is Sui?

- A high-performance Layer 1 blockchain focused on speed and scalability
- Centered around assets and objects
- Uses the Move programming language

How is Sui Different?

Object-Centric Model

- Assets on the Sui blockchain are called **objects**
- Each object has a unique ID and can store data or be modified
- This model is different from account-**based** blockchains

Intro to Move Language and Sui CLI

- Move language is a safe and flexible smart contract programming language
- Sui CLI is a command-line tool for interacting with the Sui network

Basic Transactions:
Mint an NFT, Send Tokens

- Mint a simple NFT on Sui testnet
- Transfer tokens to another wallet

Quiz + Hands-On Challenge

Mini Quiz

- What is Sui's object model?
- How is Move different from Solidity?

+

Challenge

- Deploy an NFT smart contract
- Mint NFT by calling smart contract function

Screenshot & Submit

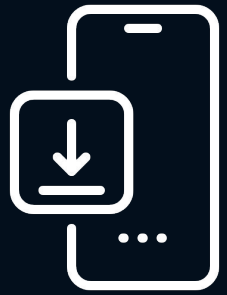
Summary

- What blockchain is and how Sui works
- How Sui's object-centric model is unique
- Basic wallet setup, Move, and transactions

Resources

- docs.sui.io
- Sui Wallet
- Sui Developer Forum

Set up you Slush Wallet



Install Slush

Back Up Seed Phrase

Get Sui from Faucet

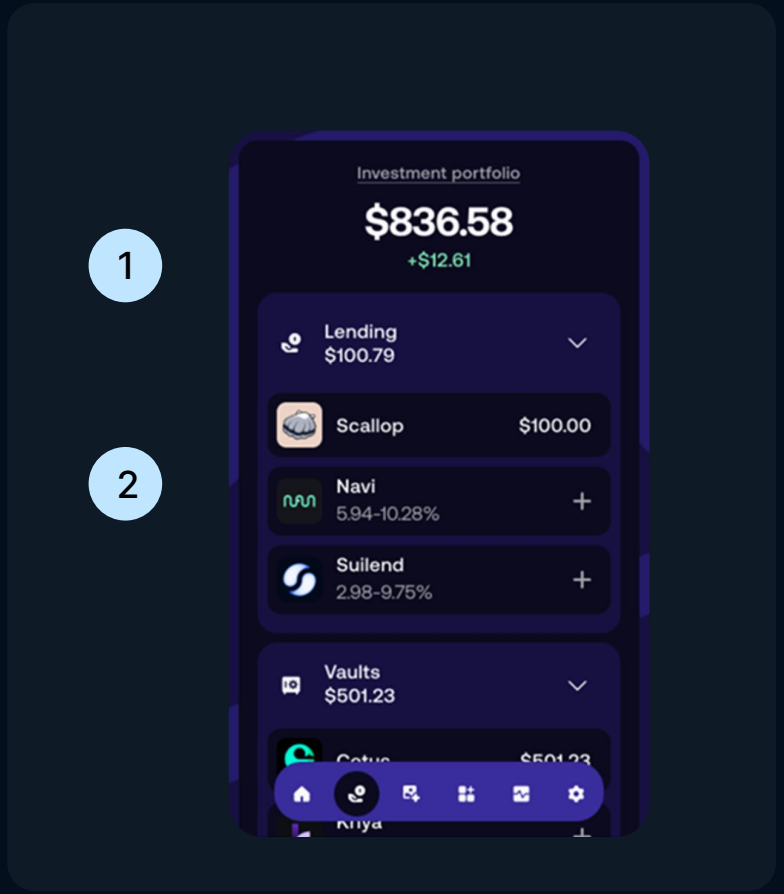
Get SUI from the Faucet

1. Go to a Sui testnet faucet site
2. Paste your address
3. Request testnet tokens

(https://faucet.sui.io/)

Explore Your Wallet Interface

1. Token balance in SUI
2. Minted NFT collections



Install Sui CLI

macOS

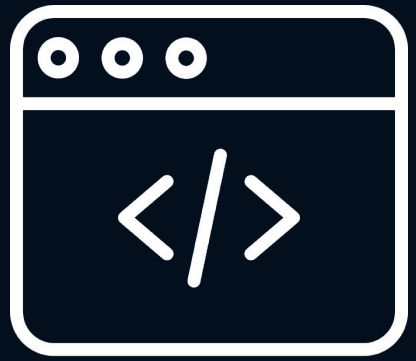
```
brew install sui
```

Windows

```
Winget install sui
```

Linux

```
0 ALTER
```



CLI Command Walkthrough

1. Sui client new-address
2. Sui client transfer-sui
3. Sui client call

Entry Functions & Structs

1. Entry functions = executable functions
2. Structs = custom data types

```
Module counter {

    Struct Counter has key, store {

      value: u64:

    }

    public entry fun increment

      (my_counter: &mut Counter)

        my_counter.value += 1;

    }

}
```

View Your Module

1. Go to Sui Explorer
   https://suiscan.xyz/mainnet/home
2. Search for your Move module

Top Student Questions

- What is the Sui wallet recovery process?
- How do I connect my Sui wallet to dApps?
- Where can I find more resources on Move?
- Is this course really beginner-friendly?

Next: Builder Track Preview

- Focus on writing and deploying contracts
- Understanding gas and storage

Thank You.