

# 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 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



# What is a blockchain?

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



# Intro to Move Language and Sui CLI

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- 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

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- 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](https://docs.sui.io)
- Sui Wallet
- Sui Developer Forum



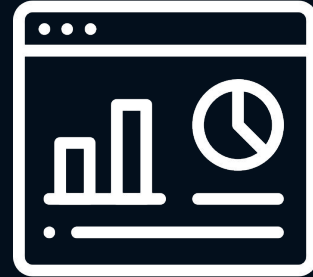
# Set up you Slush Wallet



Install Slush



Back Up Seed  
Phrase



Get Sui from  
Faucet

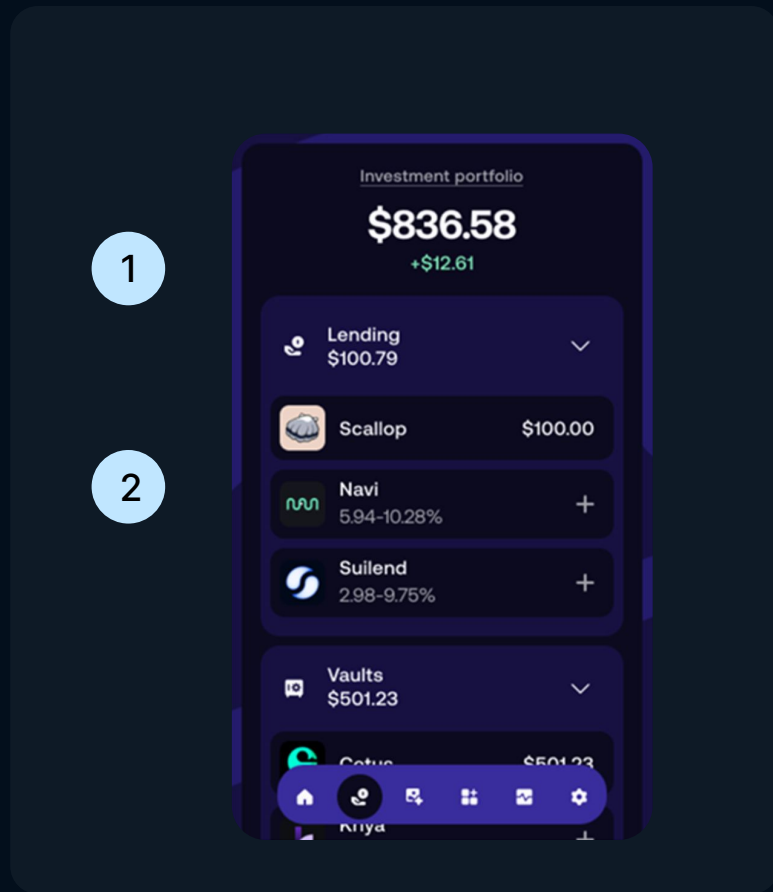
# Get SUI from the Faucet

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



# Explore Your Wallet Interface

1. Token balance in SUI
2. Minted NFT collections



# Install Sui CLI

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macOS

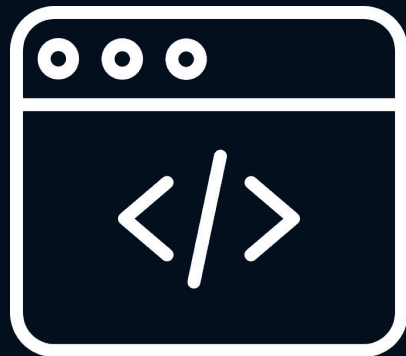
```
brew install sui
```

Windows

```
Winget install sui
```

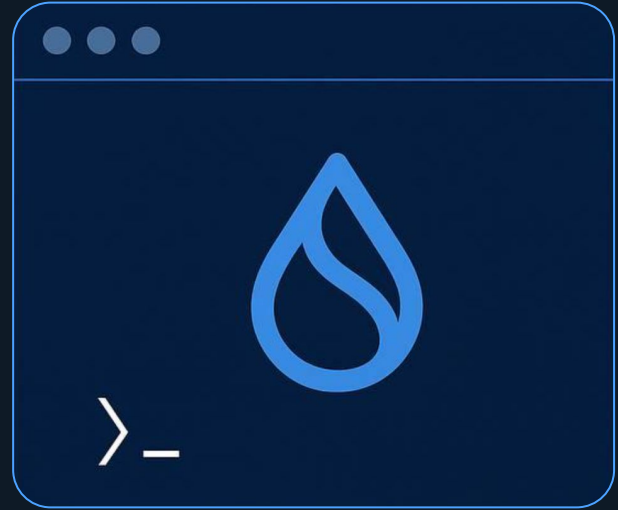
Linux

```
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

## EXPLORER

 0x65d4...df64



**MOVEMODULE**

0x65d5...37dc





# Top Student Questions

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- 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

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

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# Thank You.

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