# STARTING DWEB DEVELOPMENT

This series of guides will help you take the information presented in the webinar and translate it into practical knowledge.

Maker Guide 2 will introduce you to Ethereum and give you the practical challenge of creating a simple NFT.

The challenge will show you how to use development tools and is the first stage in learning how to create smart contracts and build DApps.

This guide is a brief introduction, so it is not definitive. We encourage you to take the lessons learned and explore further.

## INTRODUCTION TO ETHEREUM

Ethereum is a decentralized, open-source blockchain platform that revolutionizes the way we transact and interact with applications. Launched in 2015, Ethereum goes beyond the capabilities of bitcoin by providing a programmable blockchain infrastructure. At its core, Ethereum operates as a global network of computers that collectively maintain a shared database known as the Ethereum Virtual Machine (EVM). This virtual machine executes smart contracts, which are self-executing agreements written in code. By automating complex transactions and eliminating the need for intermediaries, Ethereum enables the creation of decentralized applications (DApps) that run without downtime, censorship, or fraud.

Central to Ethereum's functionality is its native cryptocurrency called *ether* (ETH). Ether serves as a means of value exchange within the Ethereum network and incentivizes participants to secure the network through a consensus mechanism called *proof-of-stake* (PoS).

## YOUR CHALLENGE

Scaffold-ETH is a powerful toolkit for Ethereum developers that makes it simple to create and launch your own DApps. With Scaffold-ETH, you get a collection of commonly used Ethereum development tools that help you deploy Solidity smart contracts and build DApps with a React front end.

There's no better way to understand how it works than to create a simple NFT..

Follow instructions to complete challenge #0 at speedrunethereum.com

### Do you have any questions?

Drop us a message at makerlabs@techsoup.org

This guide is supported by an award from the Filecoin Foundation for the Decentralized Web.