
title: Ethereum for JavaScript developers description: Learn how to develop for Ethereum using JavaScript-based projects and tooling. lang: en

JavaScript is among the most popular languages in the Ethereum ecosystem. In fact, there's [a team](#) dedicated to bringing as much of Ethereum to JavaScript as possible.

There are opportunities to write JavaScript (or something close) at [all levels of the stack](#).

Interact with Ethereum {#interact-with-ethereum}

JavaScript API libraries {#javascript-api-libraries}

If you'd like to write JavaScript to query the blockchain, send transactions and more, the most convenient way to do this is using a [JavaScript API library](#). These APIs allow developers to easily interact with the [nodes in the Ethereum network](#).

You can use these libraries to interact with smart contracts on Ethereum so it's possible to build a dapp where you just use JavaScript to interact with pre-existing contracts.

Check out

- [Web3.js](#)
- [Ethers.js](#) – includes Ethereum wallet implementation and utilities in JavaScript and TypeScript.
- [viem](#) – a TypeScript Interface for Ethereum that provides low-level stateless primitives for interacting with Ethereum.

Smart contracts {#smart-contracts}

If you're a JavaScript developer and want to write your own smart contract, you may want to get familiar with [Solidity](#). This is the most popular smart contract language and it's syntactically similar to JavaScript, which may make it easier to learn.

More on [smart contracts](#).

Understand the protocol {#understand-the-protocol}

The Ethereum virtual machine {#the-ethereum-virtual-machine}

There is a JavaScript implementation of [Ethereum's virtual machine](#). It supports the latest fork rules. Fork rules refer to changes made to the EVM as a result of planned upgrades.

It's split out into various JavaScript packages that you can check out to better understand:

- Accounts
- Blocks
- The blockchain itself
- Transactions
- And more...

This will help you understand things like "what's the data structure of an account?".

If you prefer to read code, this JavaScript could be a great alternative to reading through our docs.

Check out the monorepo

[ethereumjs](#)

Nodes and clients {#nodes-and-clients}

An Ethereumjs client is in active development that lets you dig into how Ethereum clients work in a language you understand; JavaScript!

It used to be housed in a standalone [repository](#), however, was later merged into the EthereumVM monorepo as a package.

Check out the client

[ethereumjs-client](#)

Other projects {#other-projects}

There are also plenty of other things going on in the land of Ethereum JavaScript, including:

- libraries of wallet utilities.
- tools to generate, import, and export Ethereum keys.
- an implementation of the `merkle-patricia-tree` – a data structure outlined in the Ethereum yellow paper.

Dig into whatever interests you most over at the [EthereumJS repo](#)

Further reading {#further-reading}

Know of a community resource that helped you? Edit this page and add it!