

# Ethereum integration tools

List of tools / frameworks / projects in not particular order (and state of development) that can help on the integration and working with Ethereum. This will be continuously updated, please contact us for additions and corrections.

Tool / Framework / Project	Environment / Language	Description	Link	Version	Updated	Maintainer
Ethereum	N/A	Ethereum main repository	<a href="https://github.com/ethereum">https://github.com/ethereum</a>	N/A		
Web3j	Java	web3j is a lightweight, reactive, type safe Java and Android library for integrating with clients (nodes) on the Ethereum network	<a href="https://github.com/web3j">https://github.com/web3j</a>	2.3.1	24/10/17	ConsenSys
Nethereum	.NET	.Net Ethereum integration library, providing cross platform support for all operating systems.	<a href="https://github.com/Nethereum">https://github.com/Nethereum</a> <a href="https://nethereum.readthedocs.io/en/latest/">https://nethereum.readthedocs.io/en/latest/</a>	2.1.0	24/10/17	BitGo, Juergen
ethereumjs	Javascript	Ethereum Javascript community tools and libraries, including (evm, signing, devp2p, rpc, rlp, abi, key management, util, etc, etc)	<a href="https://github.com/ethereumjs">https://github.com/ethereumjs</a>		24/10/17	
Web3js	JavaScript	This is the Ethereum compatible JavaScript API which implements the Generic JSON RPC spec.	<a href="https://github.com/ethereum/web3.js">https://github.com/ethereum/web3.js</a>		24/10/17	
Truffle suite	Javascript	Tool suite providing compilation, linking, deployment, binary management, testing, NPM and EthPM package support, script runner and TestRPC integration	<a href="http://truffleframework.com">truffleframework.com</a>		24/10/17	
Ethjs	JavaScript	A highly optimised, light-weight JS utility for Ethereum based on web3.js, but lighter, async only and using BN.js.	<a href="https://github.com/ethjs/ethjs">https://github.com/ethjs/ethjs</a>		24/10/17	

ethereum-ruby	Ruby	Ethereum Ruby implementation including IPC / HTTP support, compilation, deployment, testing	<a href="https://github.com/DigixGlobal/ethereum-ruby">https://github.com/DigixGlobal/ethereum-ruby</a>		24/10/17
ethereum-php	Php	Php Ethereum integration library	<a href="https://github.com/digitaldonkey/ethereum-php">https://github.com/digitaldonkey/ethereum-php</a>		24/10/17
Bivrost / Swift	iOS / Swift	Bridge between Solidity Contracts and Swift	<a href="https://github.com/gnosis/bivrost-swift">https://github.com/gnosis/bivrost-swift</a>		24/10/17
Bivrost for Kotlin	Kotlin	Bridge between Solidity Contracts and Kotlin	<a href="https://github.com/gnosis/bivrost-kotlin">https://github.com/gnosis/bivrost-kotlin</a>		24/10/17
Metamask	Wallet /JavaScript / Dapp signing extension				24/10/17
TestRPC	Ethereum	Node.js based Ethereum client for testing and development. It uses ethereumjs to simulate full client behavior and make developing Ethereum applications much faster. It also includes all popular RPC functions and features (like events)	<a href="https://github.com/ethereumjs/testrpc">https://github.com/ethereumjs/testrpc</a>		24/10/17
Remix	Solidity IDE	Browser-based IDE with integrated compiler and Solidity runtime environment without server-side components. Providing syntax highlighting, snippets, compilation, code completion, different versions of compilers, debugging, analysis, deployment and gitter support chat.	<a href="https://remix.ethereum.org/">https://remix.ethereum.org/</a>		24/10/17

Cakeshop	Ethereum IDE	<p><i>Cakeshop</i> is a set of tools and APIs for working with <b>Ethereum</b>-like ledgers, packaged as a Java web application archive (WAR),</p> <p>Included in the package is the <b>g eth</b>, <b>quorum</b>, and <b>constellation</b> Ethereum servers, a <b>Solidity</b> compiler and all dependencies.</p> <p>It provides tools for managing a local blockchain node, setting up clusters, exploring the state of the chain, and working with contracts.</p>	<a href="https://github.com/jpmorganchase/cakeshop">https://github.com/jpmorganchase/cakeshop</a>		24/10/17	
Visual Studio Code Solidity Extension	Solidity IDE Extension	Visual studio code solidity extension providing syntax highlighting, snippets, compilation, code completion, linting (Solium + Solhint), code generation and project support	<a href="https://marketplace.visualstudio.com/items?itemName=JuanBlanco.solidity">https://marketplace.visualstudio.com/items?itemName=JuanBlanco.solidity</a>		24/10/17	
Solium	Solidity Linting	Solium is a linter for Solidity which uses Abstract Syntax Trees and allows the user to enable/disable existing rules and add their own ones	<a href="https://github.com/duaraghav8/Solium">https://github.com/duaraghav8/Solium</a>		24/10/17	
Solhint	Solidity Linting	Open source project for linting <b>Solidity</b> code. This project provide both <b>Security</b> and <b>Style Guide</b> validations.	<a href="https://github.com/protofire/solhint">https://github.com/protofire/solhint</a>		24/10/17	
Solidity	Smart contract language	Solidity is a contract-oriented, high-level language whose syntax is similar to that of JavaScript and it is designed to target the Ethereum Virtual Machine (EVM).	<a href="http://solidity.readthedocs.io/en/develop/">http://solidity.readthedocs.io/en/develop/</a>		24/10/17	
Zeppelin	Smart contract library	Solidity smart contract library	<a href="https://github.com/OpenZeppelin/zeppelin-solidity/tree/master/contracts">https://github.com/OpenZeppelin/zeppelin-solidity/tree/master/contracts</a>		24/10/17	
Dappsys	Smart contract library	Solidity smart contract library	<a href="https://dapp.tools/dappsys/">https://dapp.tools/dappsys/</a>		24/10/17	

EthOn	Ethereum Ontology	An Ethereum ontology formalizing the concepts and relations within the Ethereum domain. The goal is to model Ethereum as a State Transition System	<a href="https://github.com/ConsenSys/EthOn">https://github.com/ConsenSys/EthOn</a>		24/10/17	
Quorum Network Manager	Quorum	Help getting started with a basic Quorum network	<a href="https://github.com/ConsenSys/QuorumNetworkManager">https://github.com/ConsenSys/QuorumNetworkManager</a>		24/10/17	
MultiSig Wallet	JavaScript / Transaction signing / Agreement	The purpose of multisig wallets is to increase security by requiring multiple parties to agree on transactions before execution. Transactions can be executed only when confirmed by a predefined number of owners	<a href="https://github.com/Gnosis/MultiSigWallet">https://github.com/Gnosis/MultiSigWallet</a> <a href="https://github.com/ConsenSys/MultiSigWallet">https://github.com/ConsenSys/MultiSigWallet</a>		24/10/17	
IceBox	JavaScript / Transaction signing	Icebox is a simple Ether cold storage solution based on <a href="#">Lightwallet</a> . It makes it easy to securely generate new keys and addresses on an airgapped device as well as spend from those addresses.	<a href="https://github.com/ConsenSys/icebox">https://github.com/ConsenSys/icebox</a>		24/10/17	
Eth-Signer	JavaScript / Transaction signing	A ethereum JavaScript signer with relay and man in the middle signing support	<a href="https://github.com/ConsenSys/eth-signer">https://github.com/ConsenSys/eth-signer</a>		24/10/17	
LightWallet	JavaScript / Transaction signing	LightWallet is a HD wallet that can store your private keys encrypted in the browser to allow you to run Ethereum dapps even if you're not running a local Ethereum node. It uses <a href="#">BIP32</a> and <a href="#">BIP39</a> to generate an HD tree of addresses from a randomly generated 12-word seed.	<a href="https://github.com/ConsenSys/eth-lightwallet">https://github.com/ConsenSys/eth-lightwallet</a>		24/10/17	
Solidity-antlr4	Solidity grammar	Solidity ANTLR 4	<a href="https://github.com/solidity/solidity-antlr4">https://github.com/solidity/solidity-antlr4</a>		24/10/17	

SolidityJ	Solidity / JVM	SolidityJ is a Solidity stack for the JVM. It aims not to replace the official compiler but to provide a set of tools for building advanced code intelligence applications on top of it (In progress)	<a href="https://github.com/solidityj/solidityj">https://github.com/solidityj/solidityj</a>		24/10/17	
solidity-coverage	Solidity / Javascript	Code coverage for solidity testing	<a href="https://github.com/sc-forks/solidity-coverage">https://github.com/sc-forks/solidity-coverage</a>		24/10/17	
Quorum-Genesis	Quorum	Very simple utility for Quorum to help populate the genesis file with voters and blockmakers	<a href="https://github.com/davebryson/quorum-genesis">https://github.com/davebryson/quorum-genesis</a>		24/10/17	
Quorum Maker	Quorum	Synechron's Quorum Maker is a tool that allows users to pre-configure the nodes that are needed to build a Quorum network. Quorum supports multiple consensus algorithm and different roles for node	<a href="https://github.com/synechron-finlabs/quorum-maker">https://github.com/synechron-finlabs/quorum-maker</a>		24/10/17	
Hevm	EVM / testing	The hevm project is an implementation of the Ethereum virtual machine (EVM) made specifically for unit testing and debugging smart contracts	<a href="https://dapp.tools/hevm/">https://dapp.tools/hevm/</a>		24/10/17	
Seth	Command line tools	Ethereum from the command line. Slice and dice transactions, query the blockchain, convert between data formats, perform remote calls, estimate gas usage	<a href="https://dapp.tools/seth/">https://dapp.tools/seth/</a> <a href="https://github.com/dapphub/seth">https://github.com/dapphub/seth</a>		24/10/17	
Quorum-tools	Quorum / Haskell	Tools for running Quorum clusters and integration testing Quorum	<a href="https://github.com/jpmorganchase/quorum-tools">https://github.com/jpmorganchase/quorum-tools</a>		24/10/17	
libsnark	zkSNARKS / C++	This library implements <b>zkSNARK</b> schemes, which are a cryptographic method for proving/verifying, in zero knowledge, the integrity of computations.	<a href="https://github.com/scipr-lab/libsnark">https://github.com/scipr-lab/libsnark</a>		24/10/17	

Manticore	Analysis	Manticore is a prototyping tool for dynamic binary analysis, with support for symbolic execution, taint analysis, and binary instrumentation.	<a href="https://github.com/trailofbits/manticore">https://github.com/trailofbits/manticore</a>		24/10/17
-----------	----------	---	---	--	----------