

Setup

Connect to Blockchain - simple	<code>const web3 = new Web3('url-to-ethereum-node')</code>
Connect to Blockchain - Metamask	<code>const web3 = new Web3(ethereum.provider)</code>
Connect to Blockchain - Infura	<code>const web3 = new Web3(HDWalletProvider(mnemonic, "http://localhost:8545")) /* HDWalletProvider = require('@truffle/hdwallet-provider') */</code>
Instantiate contract	<code>const contract = new web3.eth.Contract(abi, address)</code>
Get list of wallet addresses	<code>web3.eth.getAccounts()</code>

Interacting with smart contract

Call a smart contract function	<code>contract.methods .foo(arg1, arg2, etc...) .call()</code>
Send a transaction	<code>contract.methods .foo(arg1, arg2, etc...) .send({from: address, value: /*if sending ether*/})</code>
Events	<code>contracts.events .MyEvent({fromBlock: 0, filter: {field1: val1, etc...} /* for indexed parameter */}, (error, event) => { /* callback here */ });</code>

Utils

Transform Ether to Wei	<code>web3.utils.toWei('1') /* notice the quotes */</code>
Transform Wei to Ether	<code>web3.utils.fromWei('100000') /* notice the quotes */</code>