**Ethereum:**

is a [decentralized](https://en.m.wikipedia.org/wiki/Decentralization), [open-source](https://en.m.wikipedia.org/wiki/Open-source_software) [blockchain](https://en.m.wikipedia.org/wiki/Blockchain) with [smart contract](https://en.m.wikipedia.org/wiki/Smart_contract) functionality. **Ether** (**ETH** or **Ξ**) is the native [cryptocurrency](https://en.m.wikipedia.org/wiki/Cryptocurrency) of the platform.

 The platform allows developers to deploy permanent and immutable [decentralized applications](https://en.m.wikipedia.org/wiki/Decentralized_application) onto it

And user can interact with it and process decentralized finical process

the Ethereum protocol could process about 25 transactions per second

**Smart Contract:**

It is a collection of code (its functions) and data (its state) that resides at a specific address on the Ethereum blockchain.

Ethereum's smart contracts are written in [high-level](https://en.m.wikipedia.org/wiki/High-level_programming_language) programming languages and then compiled down to EVM [bytecode](https://en.m.wikipedia.org/wiki/Bytecode) and deployed to the Ethereum blockchain.

can be written in [Solidity](https://en.m.wikipedia.org/wiki/Solidity) a language library

**Soloditiy:**

is OOP language that runs on the Ethereum blockchain

similarities to [C](https://en.m.wikipedia.org/wiki/C_(programming_language)) and [JavaScript](https://en.m.wikipedia.org/wiki/JavaScript)

**TRUFFLE: COMMANDLINE**

Truffle is the most popular development framework for Ethereum with a mission to make your life a whole lot easier.

Can write automated tests for your contracts in Solidity or other languages

Network management like rinkepy, ropsteon

Migrate and compile smart contract

**Web3.js:**

Library or package that support interact with Ethereum platform using http or web socket protocol

Can create contract reference or send or call transaction

**React js:**

Java script library that supports build user interfaces ‘mobile or web’ based apps maintained by Facebook

Depend on yarn instead of NPM

Can build SPA with it