

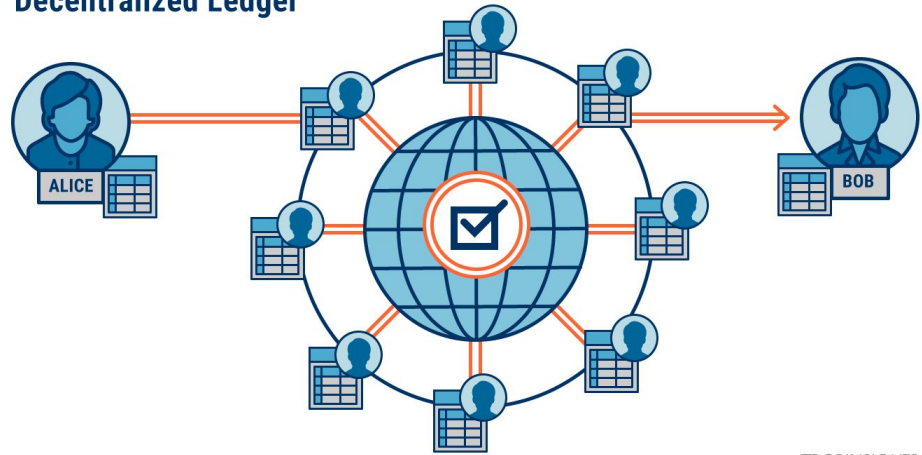
Smart Contracts

By Nicholas Nimura



Definition of the Blockchain:
A system in which a record of transactions made in bitcoin or another cryptocurrency are maintained across several computers that are linked in a peer to peer network.

Decentralized Ledger



How a blockchain works

1

A wants to send money to B



2

The transaction is represented online as a 'block'



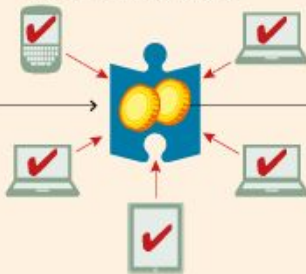
3

The block is broadcast to every party in the network



4

Those in the network approve the transaction is valid



5

The block then can be added to the chain, which provides an indelible and transparent record of transactions



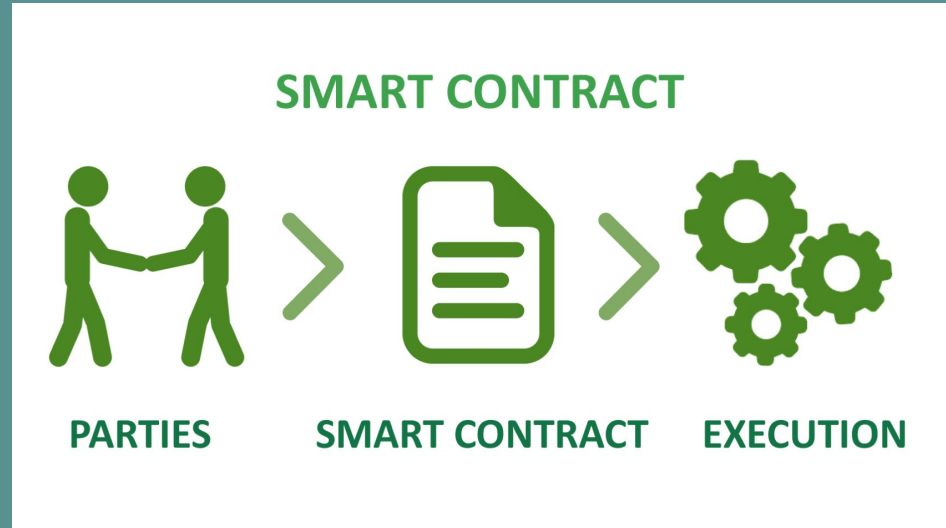
6

The money moves from A to B



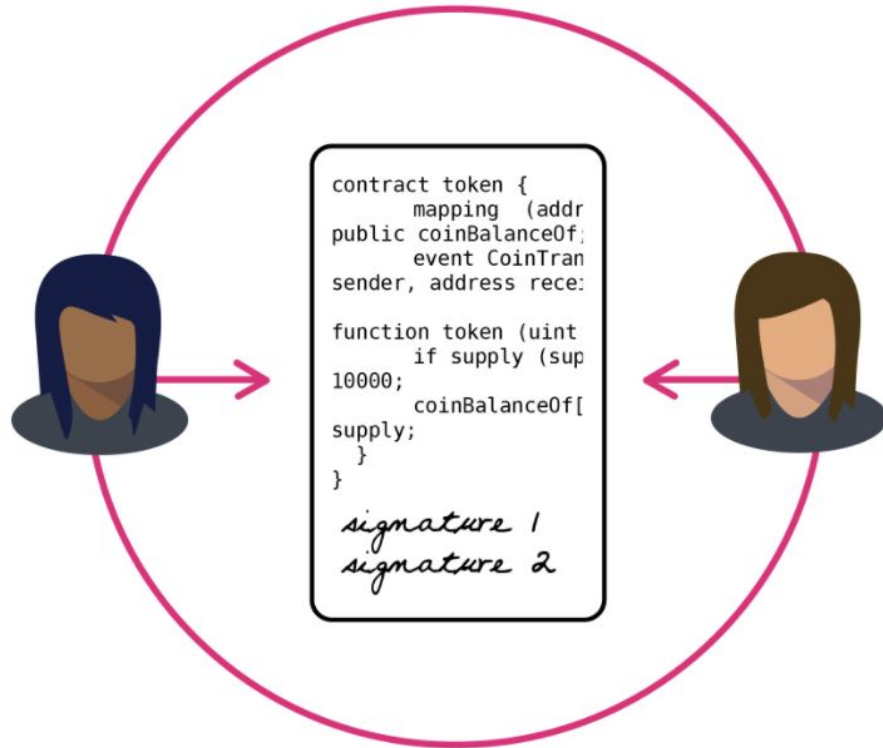
Properties of Smart Contracts:

- Terms executed automatically upon completion
- Immutable once created on the block chain
- Distributed to all on the network



- Smart contracts enforced automatically by a predetermined algorithm forgoing the need for legal proceedings.
- Enforced on a state level, not federal.
- Ancillary smart contracts compliment smart contracts to make them more legally binding





Disadvantages of Smart Contracts

- Unable to adapt contract to changes due to its immutable nature.
- Badly written code can lead to theft





- 1.) Trust
- 2.) Fraud Reduction
- 3.) Easy to access
Public Records
- 4.) Cost Efficient

- 1.) Unable to be
changed once
created
- 2.) Bad coding can
lead to theft



SMART CONTRACT

