WHAT IS

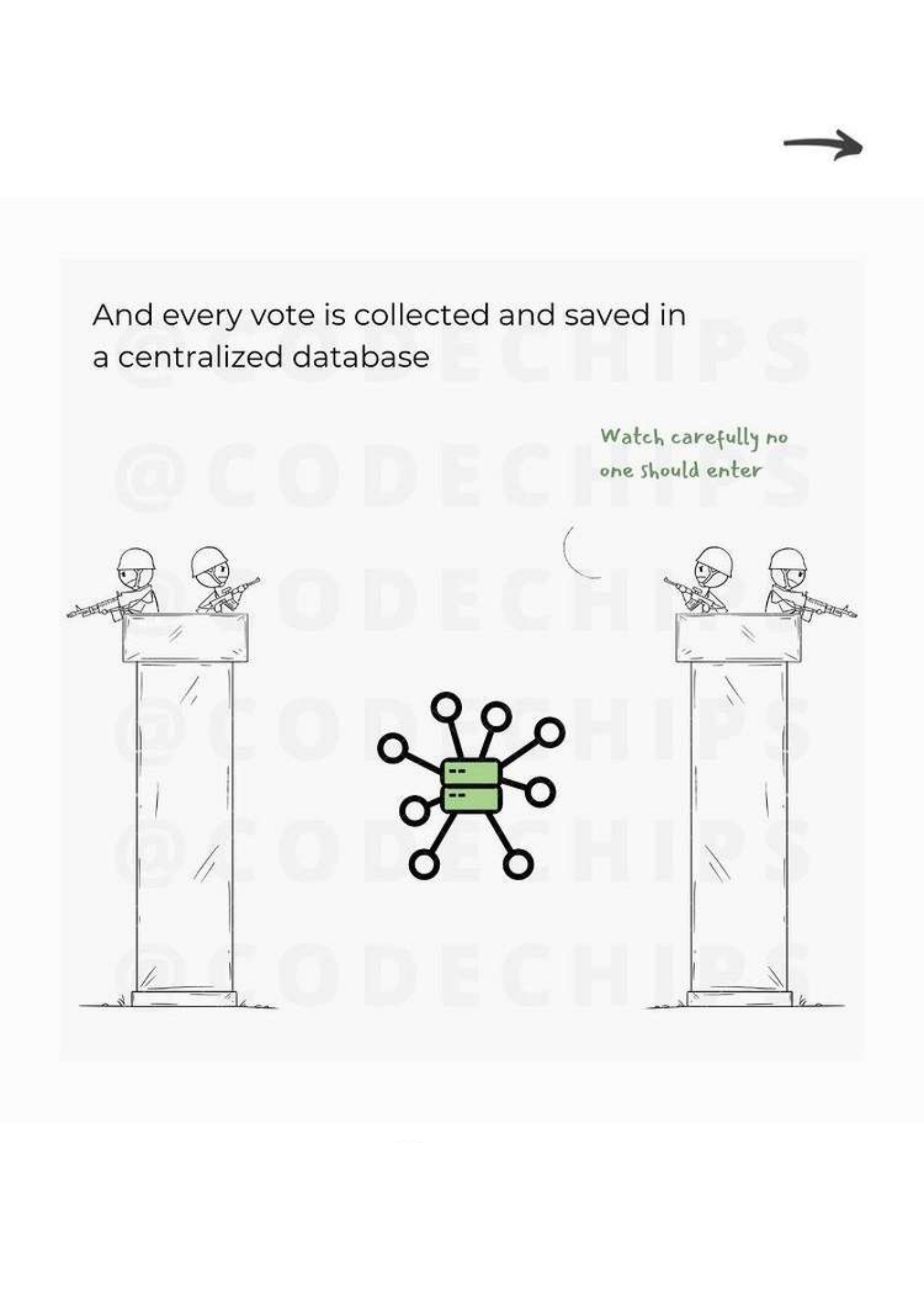
BLOCKCHAIN

@codechips

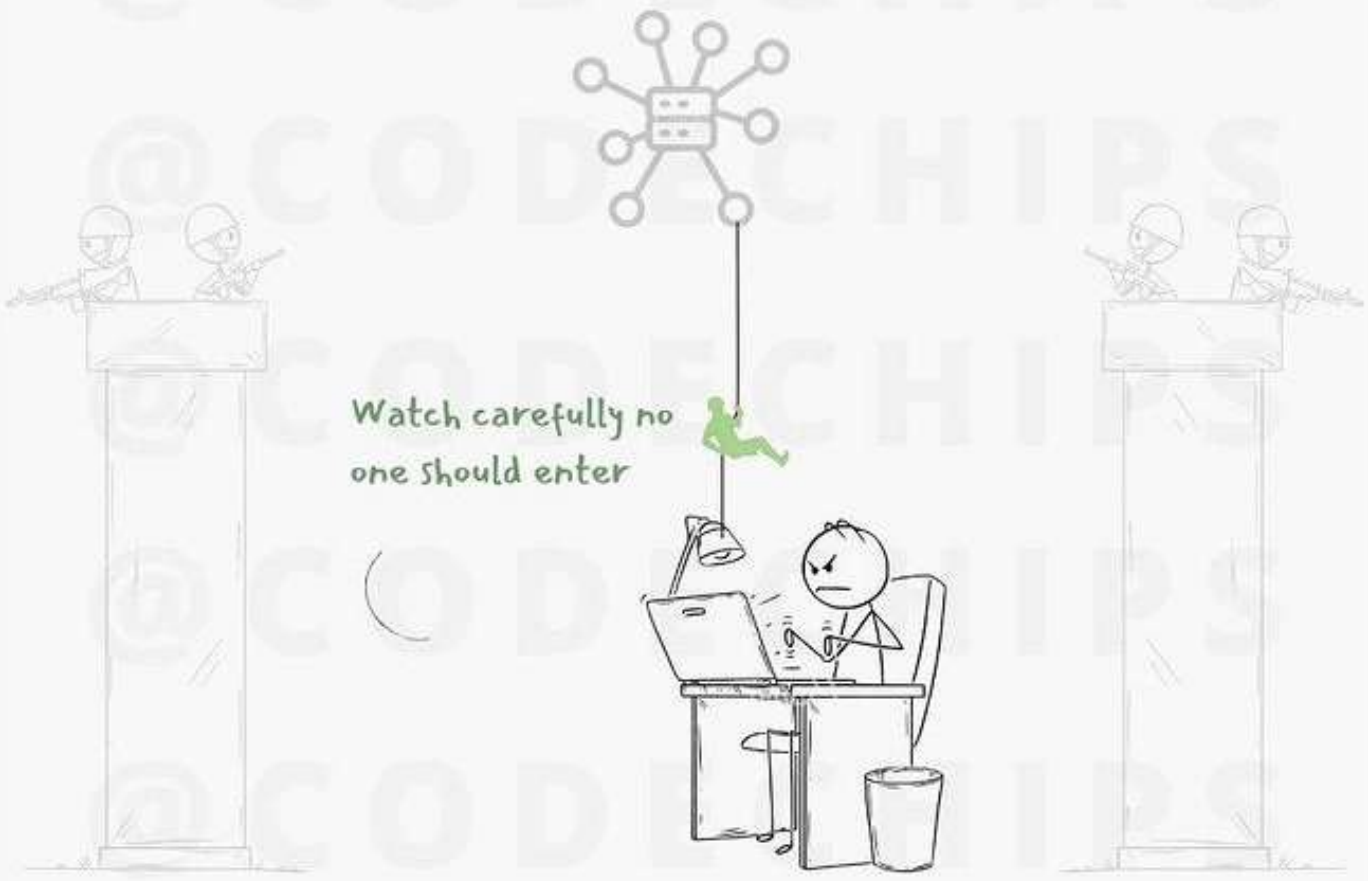
Art Credit : Wenart

These concepts are just for better understanding

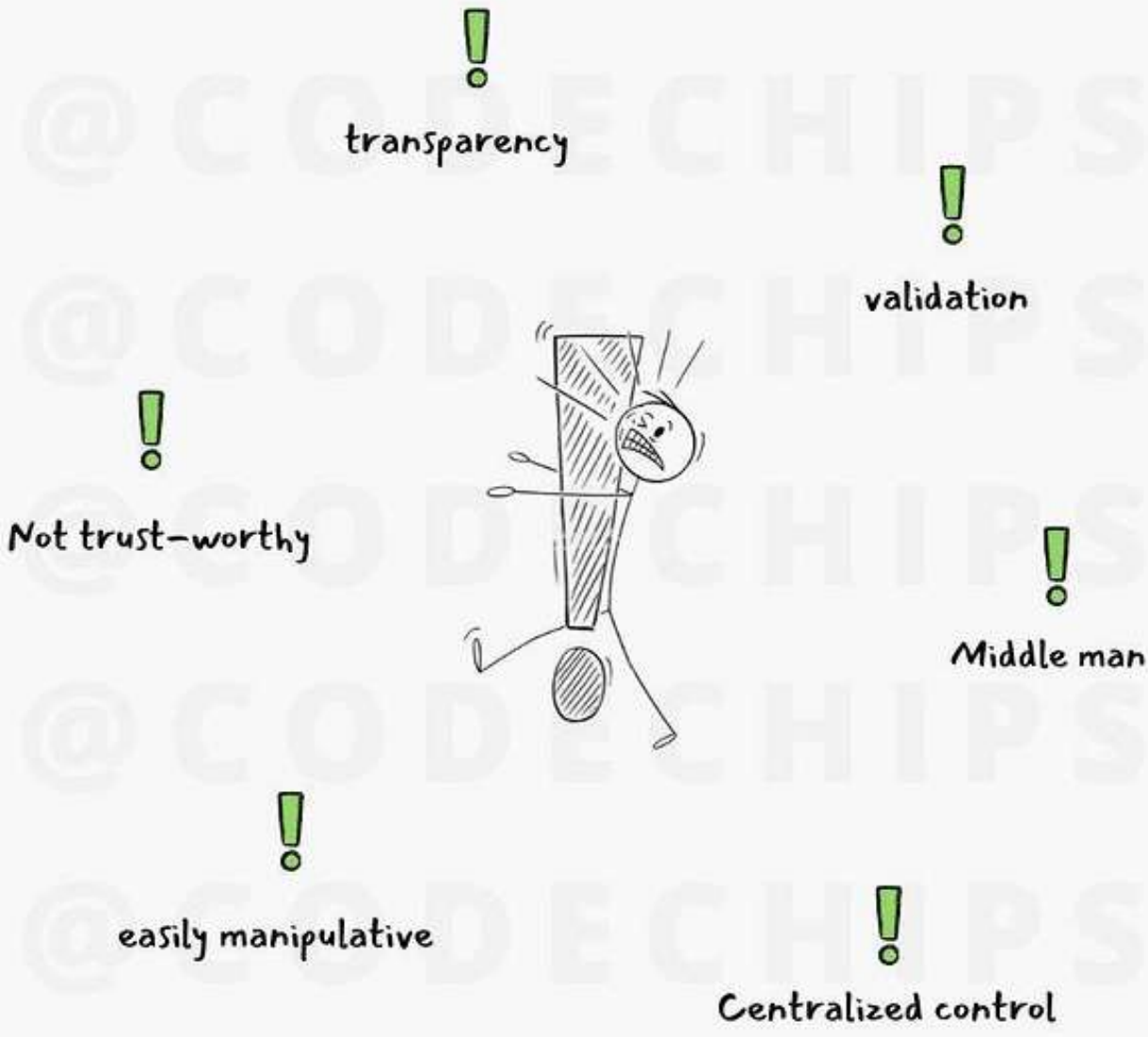
The president elections are going on


And every vote is collected and saved in a centralized database
Watch carefully no one should enter

But what if the authority tries to change the data in favour of one representative

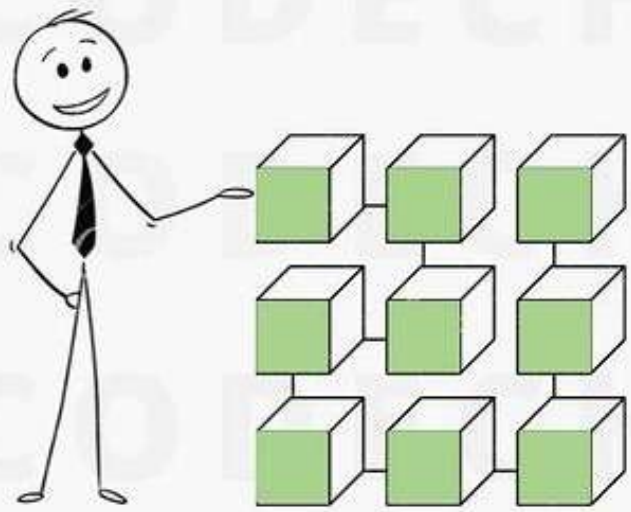


The traditional method involves quite a few issues



Blockchain could be the solution

BLOCKCHAIN

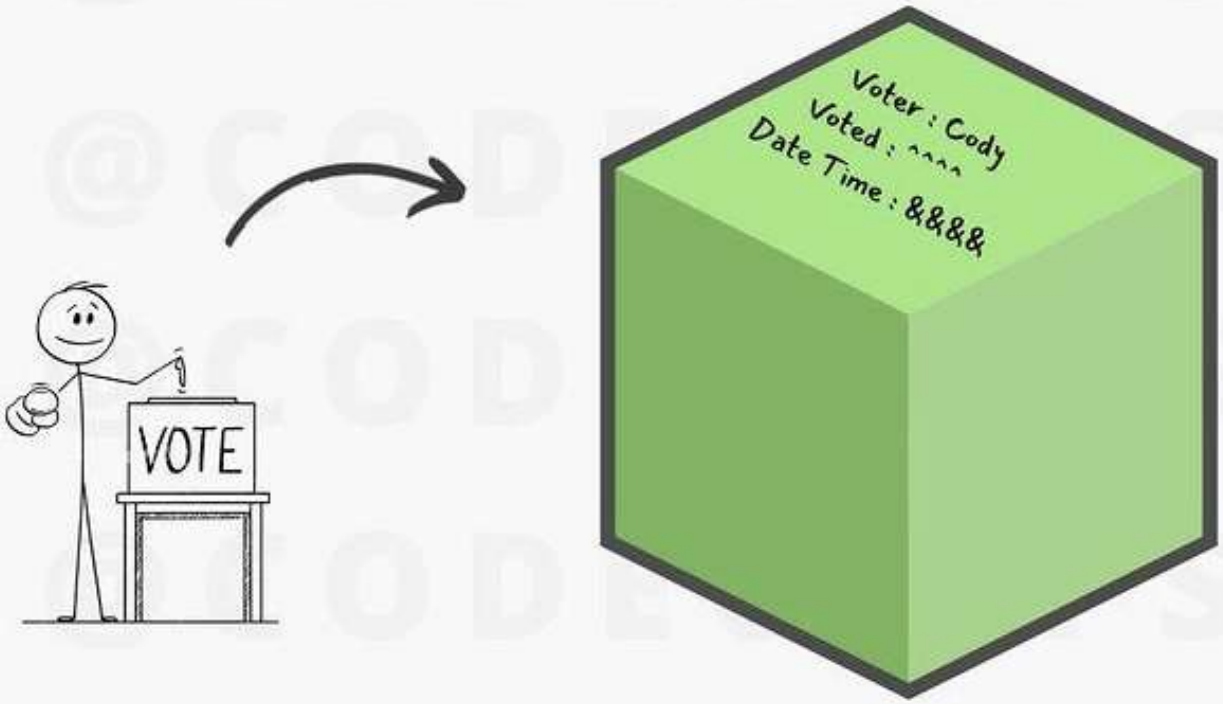


A blockchain is a **decentralized**, **distributed**, and oftentimes public, **digital ledger** used to record transactions across many computers that cannot be altered retroactively, without the alteration of all subsequent blocks

Lets see how it works then you can understand how it could be the solution

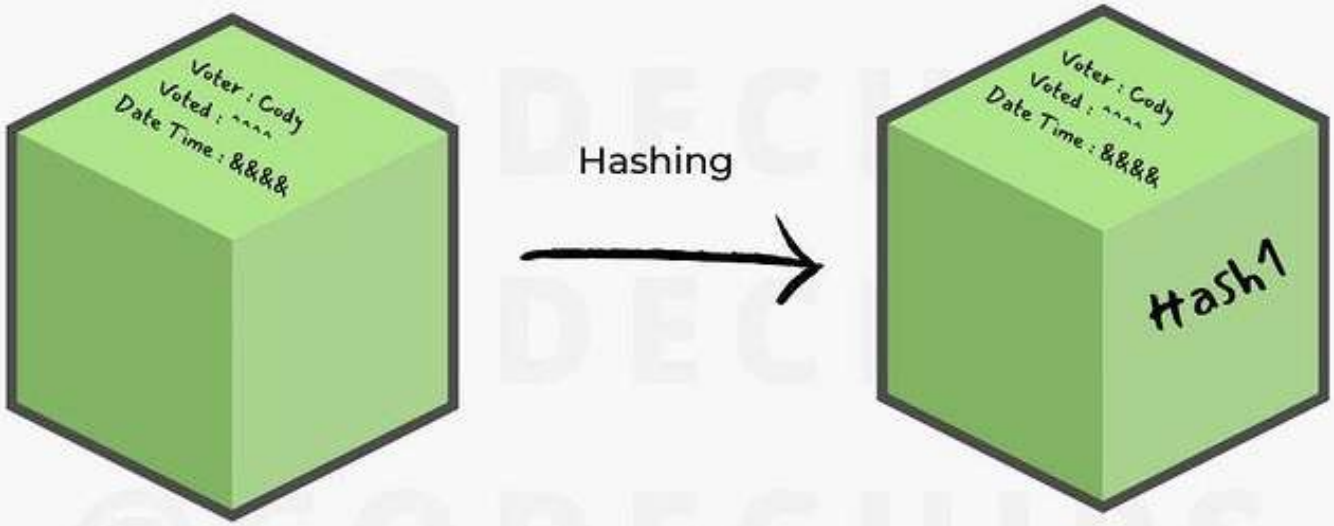
Each time a vote is cast a new block is created with all details

Once a block is written, it is immutable



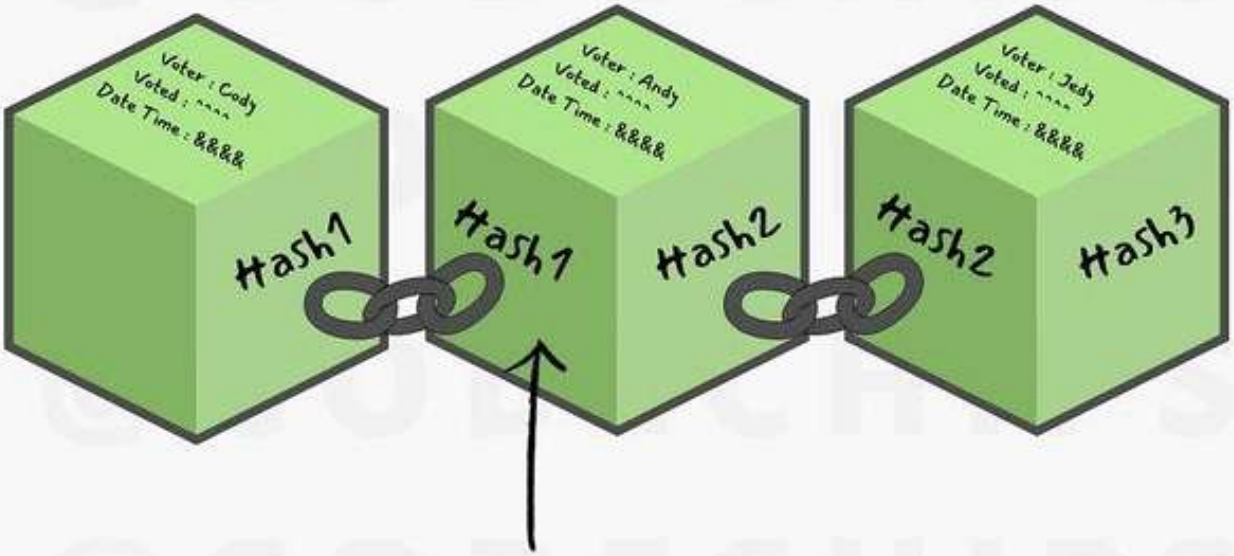
For each and every block
a hash is created

A hash in blockchain is something like a fingerprint or signature, preserving the authenticity of the data



When a new data is created it appends it as a new block

thereby all data are stored in a ledger format



Most importantly, Each block carries the information of the previous block, the chain becomes very secure.

kinda like a linedlist

It is distributed across a large network of computers where modifying one block will affect the entire chain making it decentralized , immutable and trust-worthy

Blockchain is the underlying technology that many cryptocurrencies — like Bitcoin and Ethereum — operate on, but its unique way of securely recording and transferring information has broader applications outside of cryptocurrency