WHAT IS

BLOCKCHAIN

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Art Credit : Wenart

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These concepts are just for better understanding

The president elections are going on

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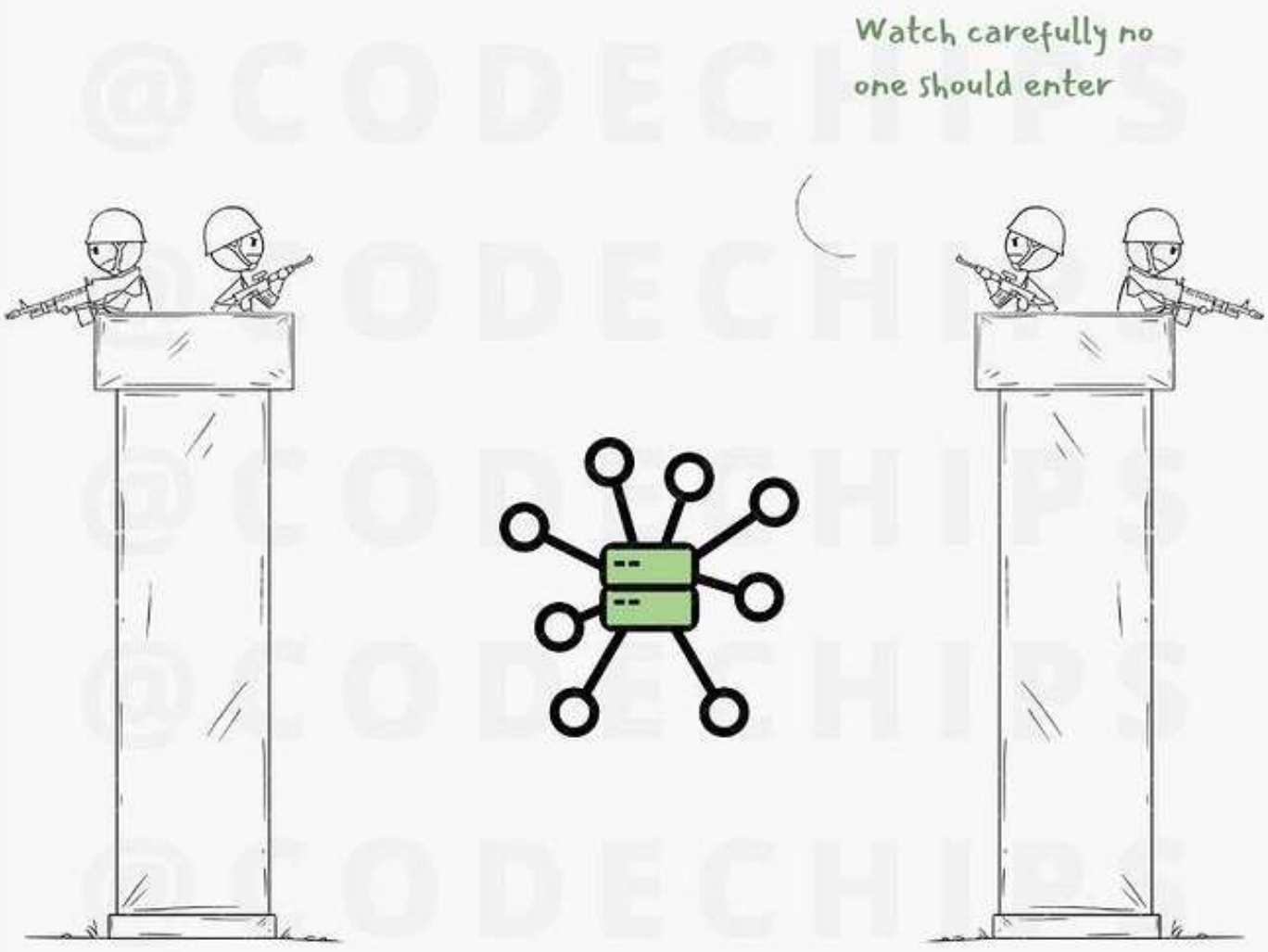
And every vote is collected and saved in a centralized database



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

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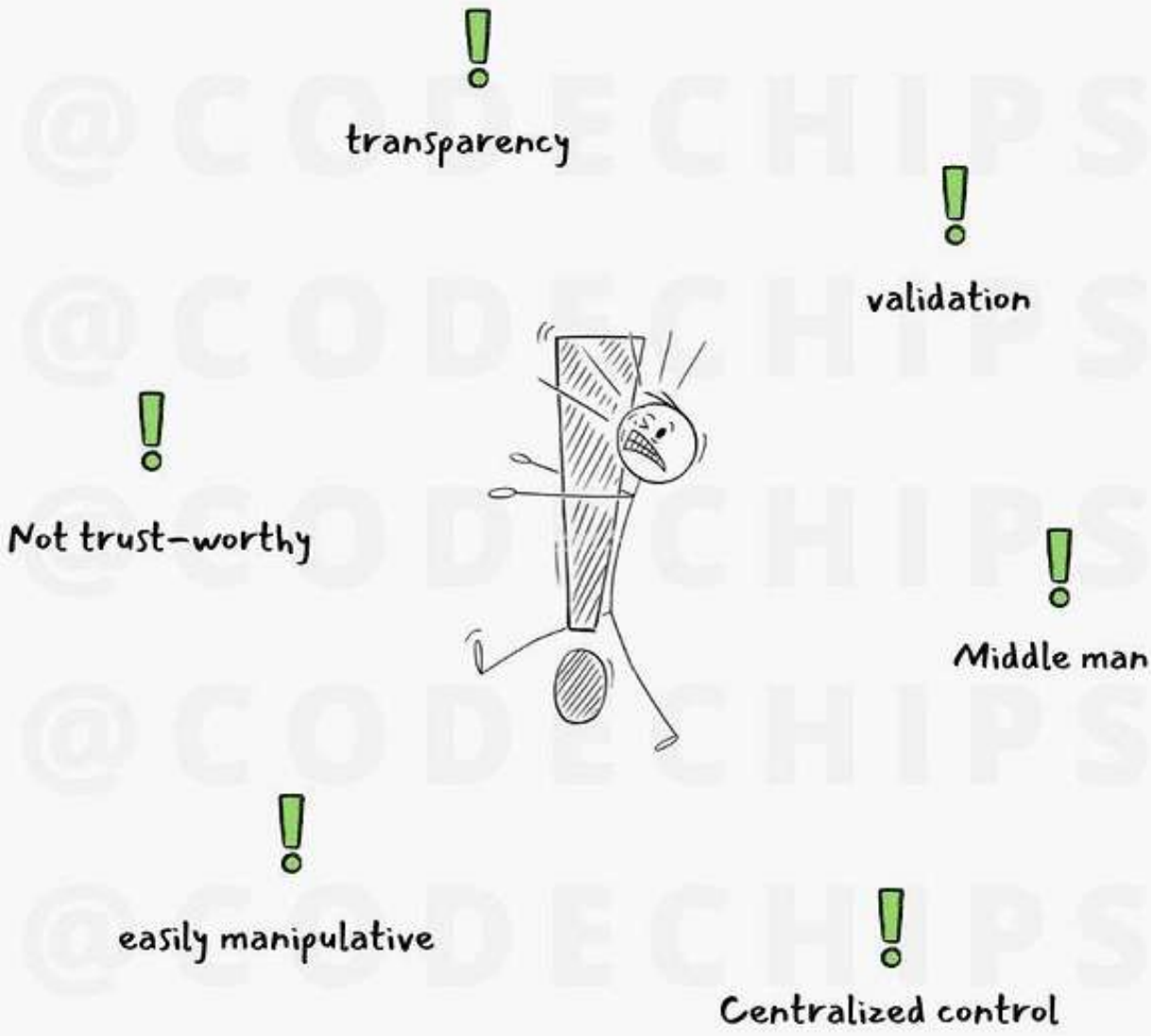
The traditional method involves quite a few issues



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Blockchain could be the solution

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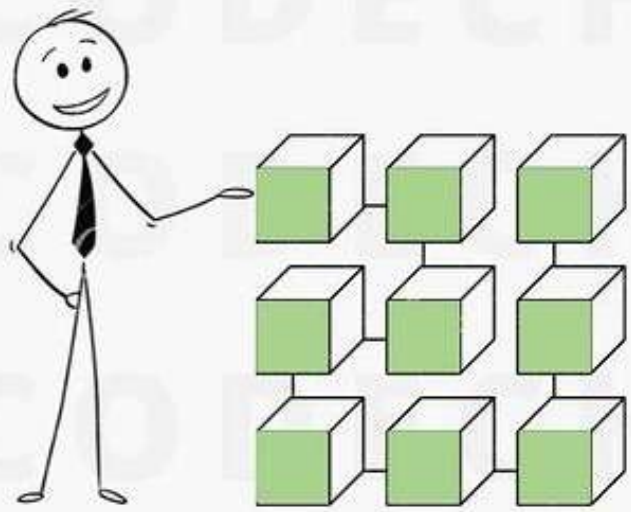

A blockchain is a **decentralized**, **distributed**, and oftentimes public, **digital ledger** used to record transactions across many computers that cannot be altered retroactively, without the alteration of all subsequent blocks

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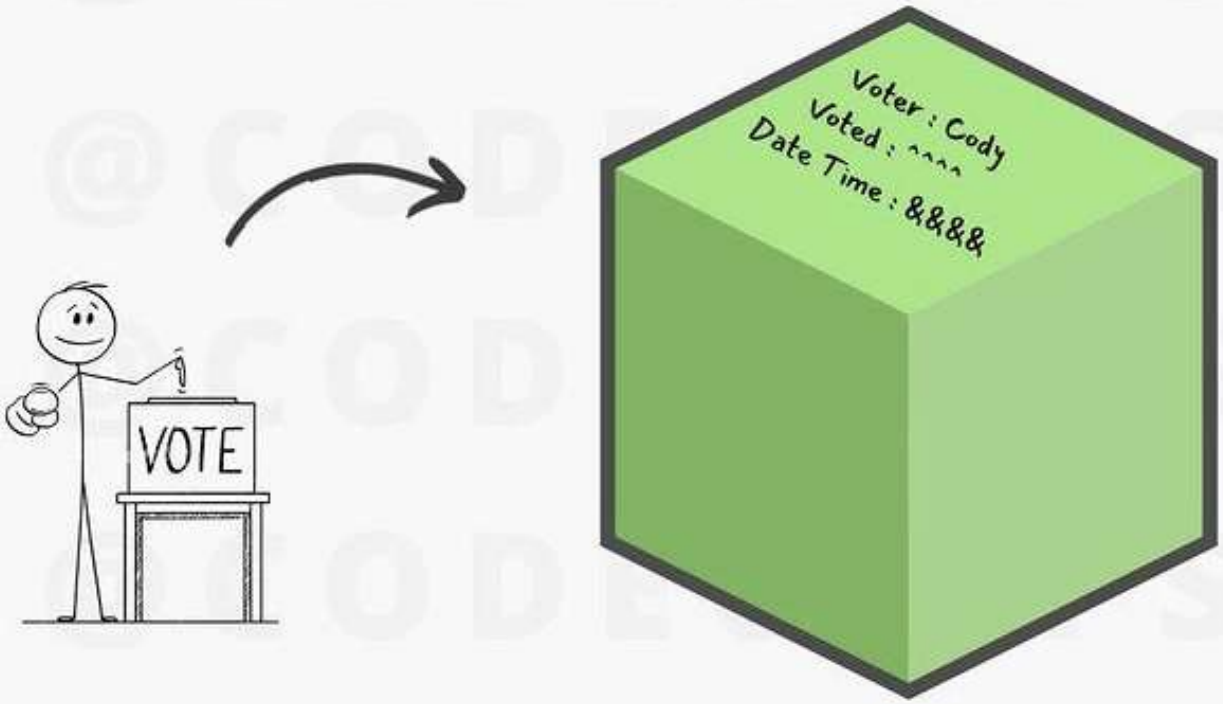
Lets see how it works then you can understand how it could be the solution

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

Once a block is written, it is immutable



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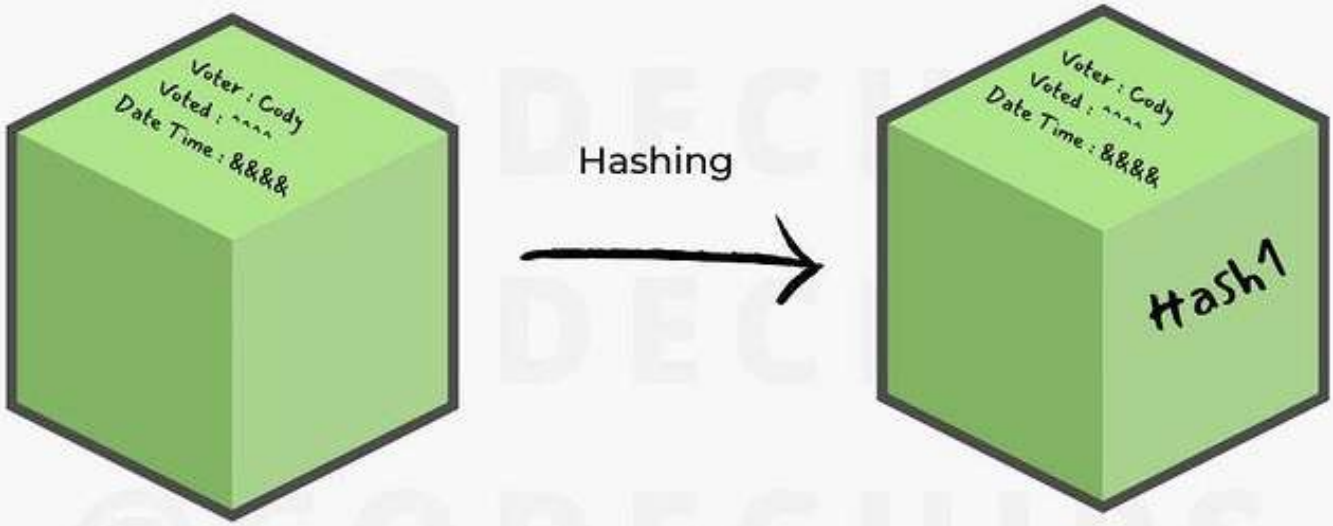
For each and every block
a hash is created

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



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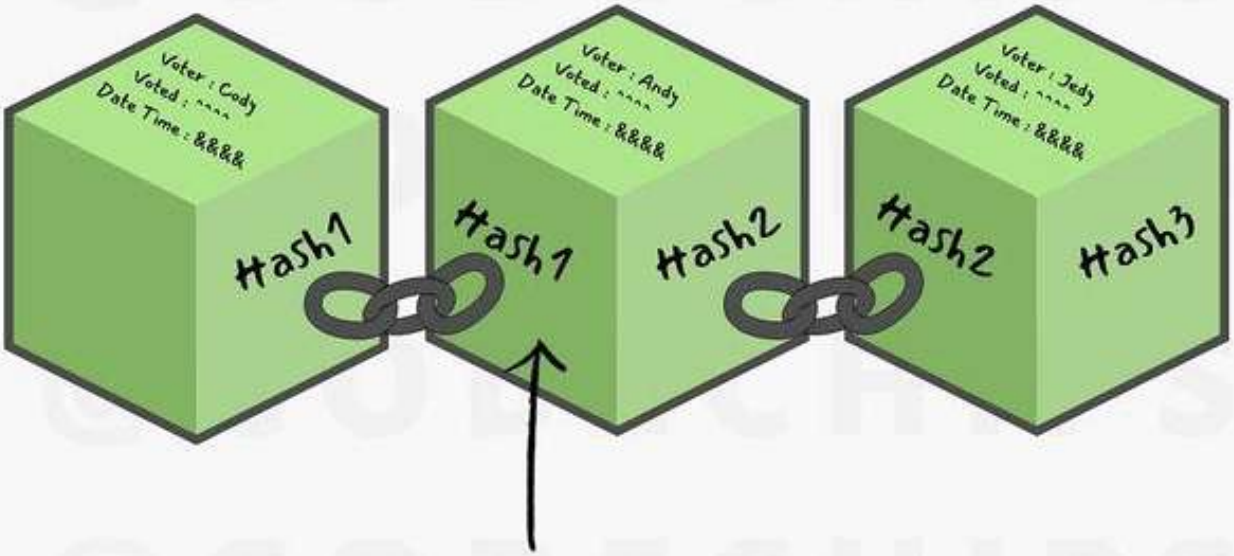
When a new data is created it appends it as a new block

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

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