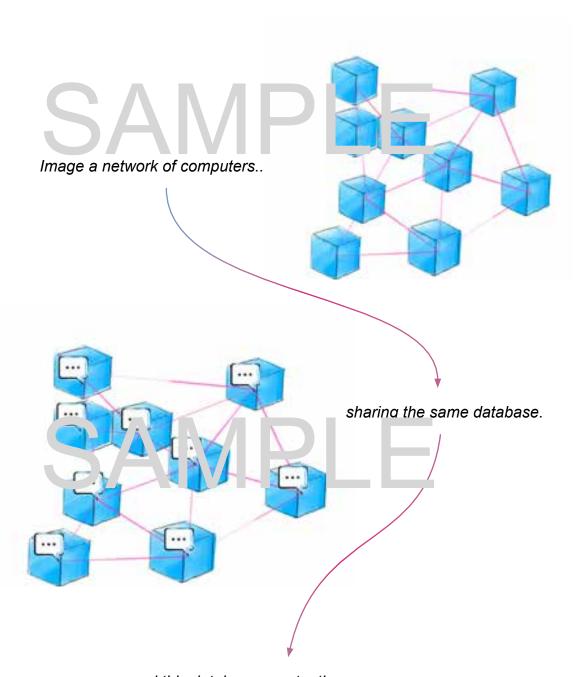
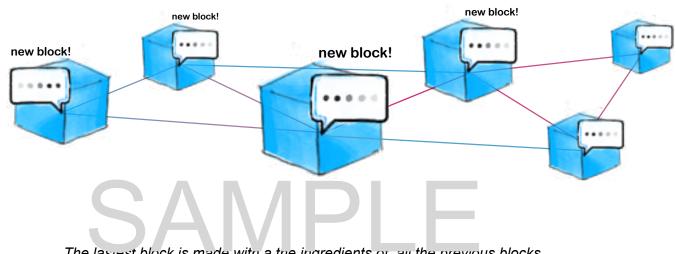
## WHAT IS A BLOCKCHAIN?

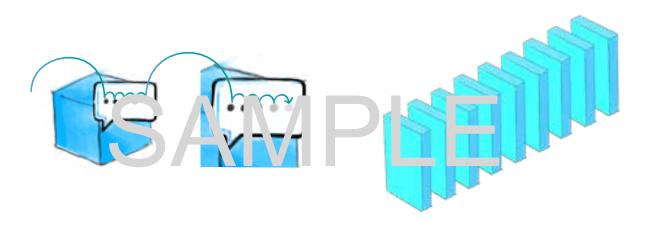


and this database constantly grows

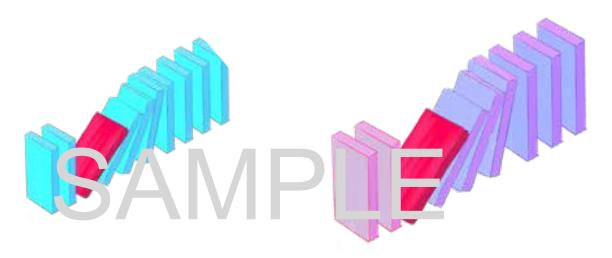


The lastest block is made with a the ingredients or all the previous blocks

The database is made out of blocks, linearly added one by one, one after the other, all together they form a chain made of blocks.



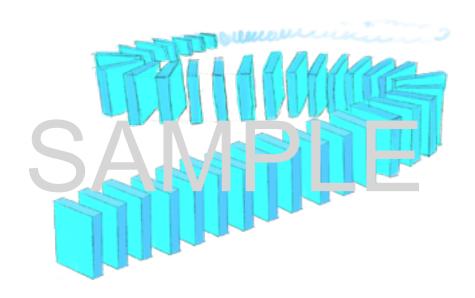
The chain cannot be modified because is protected by a secret language

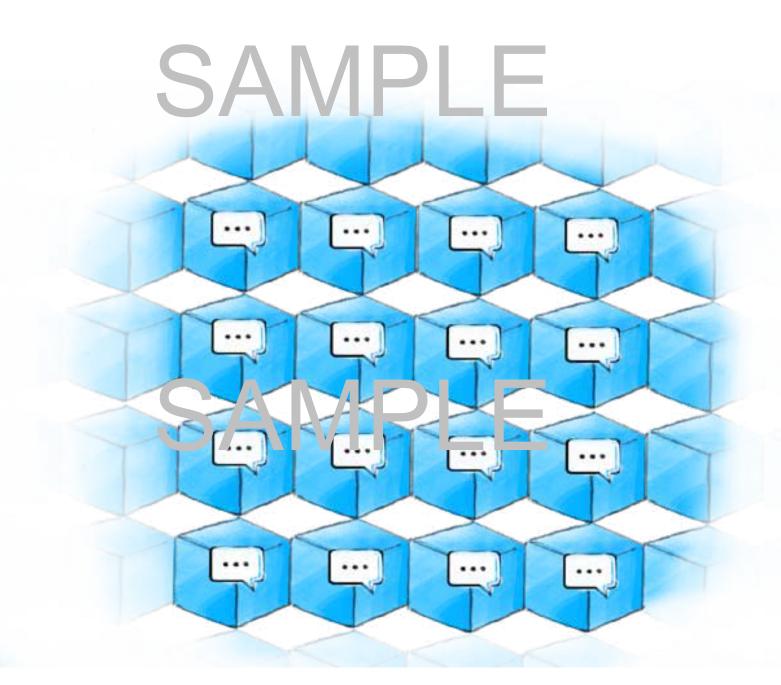


Since all the blocks are connected

If a block will be modified all the blocks will be affected.

The network will reconise the problem and represtinate the chain.





What is the Difference Between a Blockchain and a Database?

who is blocke air -te hology

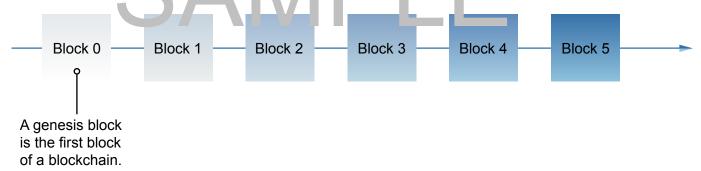


## WHAT IS A BLOCKCHAIN?

A blockchain is a continuously growing list of recorded data, called blocks, that are linked and secured using cryptographic technologies (e.g Keccak, SHA3).

Each block cannot be altered retroactively since the last block of the chain contains the information (cryptographic half) of the prix busic is.

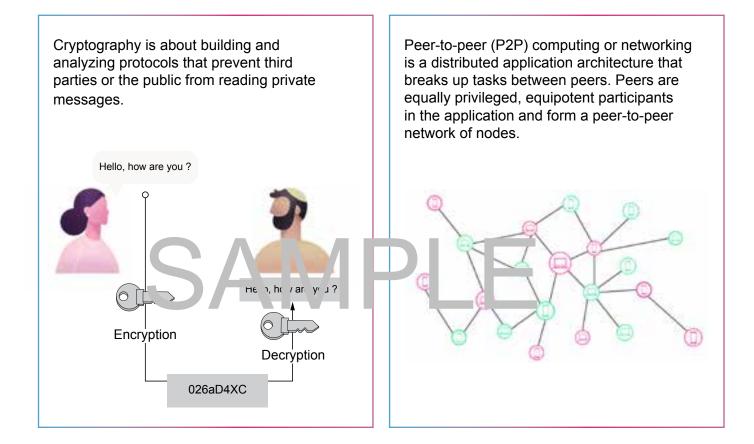
If you change some unit in the cithe of ckin he in word result in an invalidation of all of the links.



The term blockchain was most probably first defined in 1991.

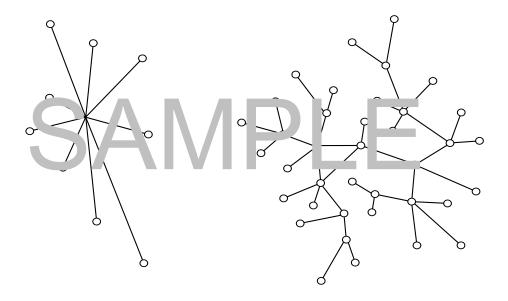
Intending to create a digital timestamp, a group of researchers wanted to create a tool to timestamp digital documents that cannot be changed or backdated. The blockchain was invented by an unknown person (or a team of people) under the name - most probably a pseudonymous - of Satoshi Nakamoto. In October 2008, Satoshi published a white paper called "Bitcoin: A Peer-To-Peer Electronic Cash System" on a mailing list. The Discoin so ware as improved and eleased as open-source software in January 2009.

The invention of the bic kch in first bit on mack it it is most distinct it is most distinct in the second trusted authority or centre, serve (trisler).



## Centralised

## **DeCentralised**



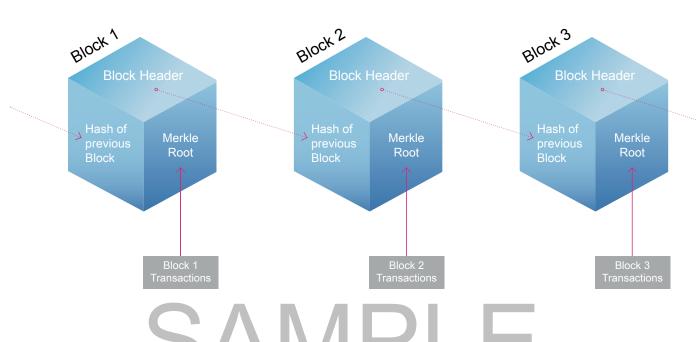
To sum, a blockchain is a decentralized and distributed ledger (journal) that can be **public** or **private**, where all parties hold a local copy.

The ledger can contain different kinds of transactions that happen in a P2P network system.

This network consist of many computers - NODEs - connected together with equal permissions and authority for processing data.

These data cannot be thered (i.g. he and tion of a leaw block of the characteristic than the consensus of the whole network, each separate compute have to life it.

Each block is directly connected and shaped by the previous one, in this fashion, it is impossible to backchange the data included in a block without compromising the entire blockchain



Some of the most popular for chain are Biroin Etlereum, IE & Block hain. Hyperledger, etc.. In general, in Bitcoin new block is created /mined evry 10 minutes (block time) in Ethereum every 17 seconds