

By Me! Anthony Shook

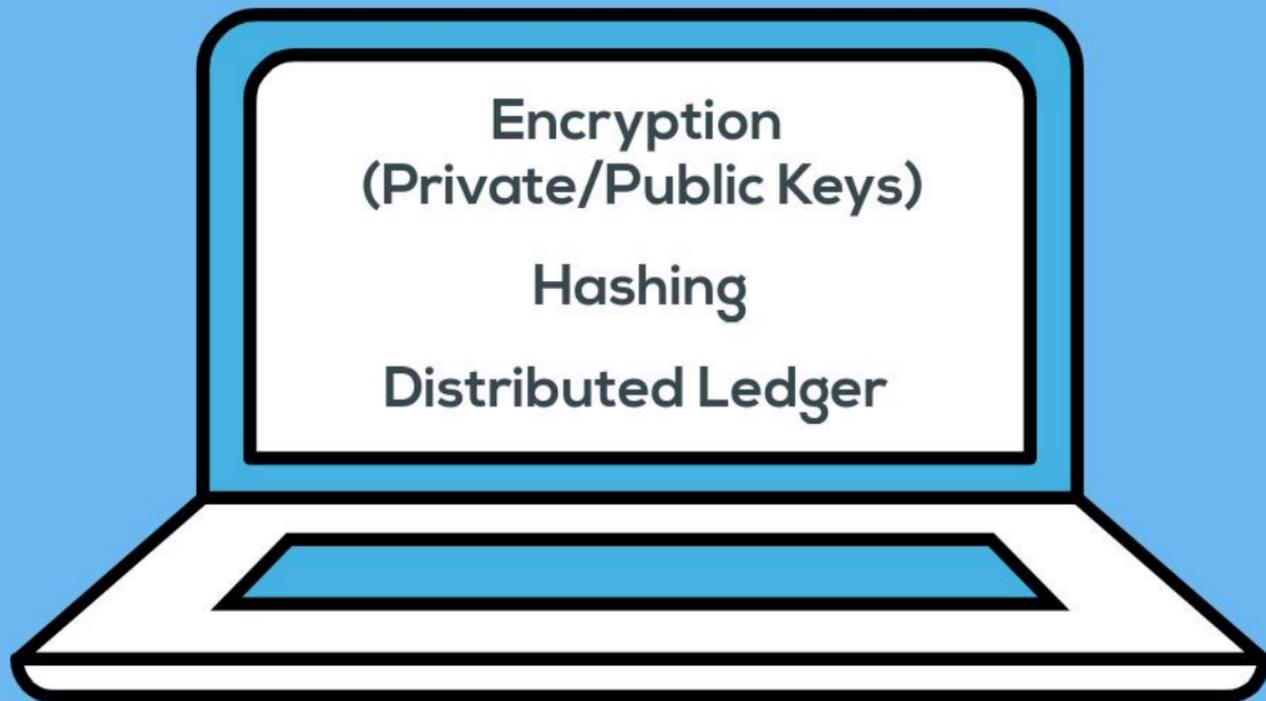


Blockchain 101

Blockchain is a handful of cryptographic primitives put together in a novel way.

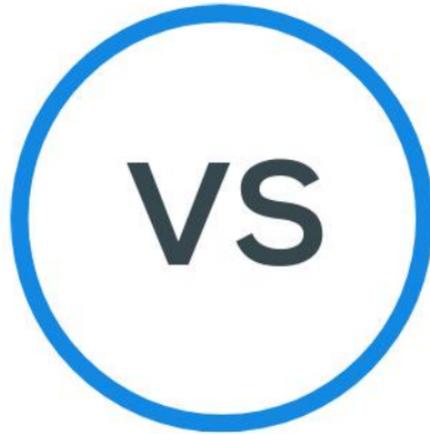


What does that even mean?



Encryption

Symmetric



Asymmetric

Symmetric Encryption



Steve Uses the
Password
Andrea shared
with him to
unlock the
document.



Asymmetric Encryption



Public Key



Private Key



Steve's Public Key



Public Key



Private Key



Andrea's Public Key



Asymmetric Encryption



Email

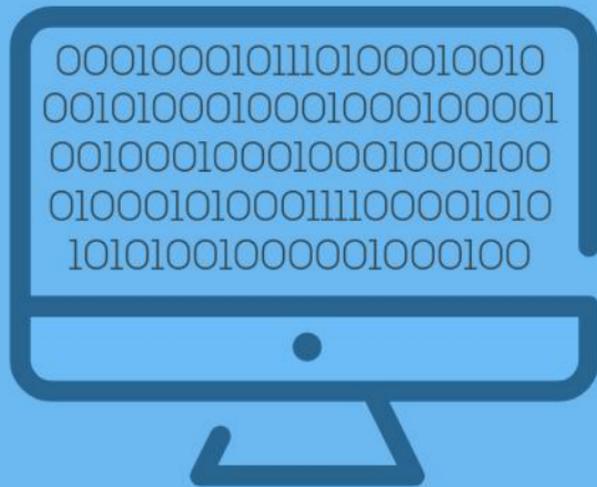
Steve uses his private key, that only he knows, to unlock the document.

Private Key



Secure Websites

Hashing



**All documents and photos
are actually just a lot of
Ones and Zeros, known as
Binary Code.**

Creating a Hash

Always the same... **UNLESS**
anything is changed.

Honesty through Math.

Distributed Ledger

A Ledger is a record of transactions



Distributed Ledger



Everyone on the system
has the full Ledger.



So how are
all these
Blockchain?

**Encryption
(Private/Public Keys)**

Hashing

Distributed Ledger

Blockchain- Encryption



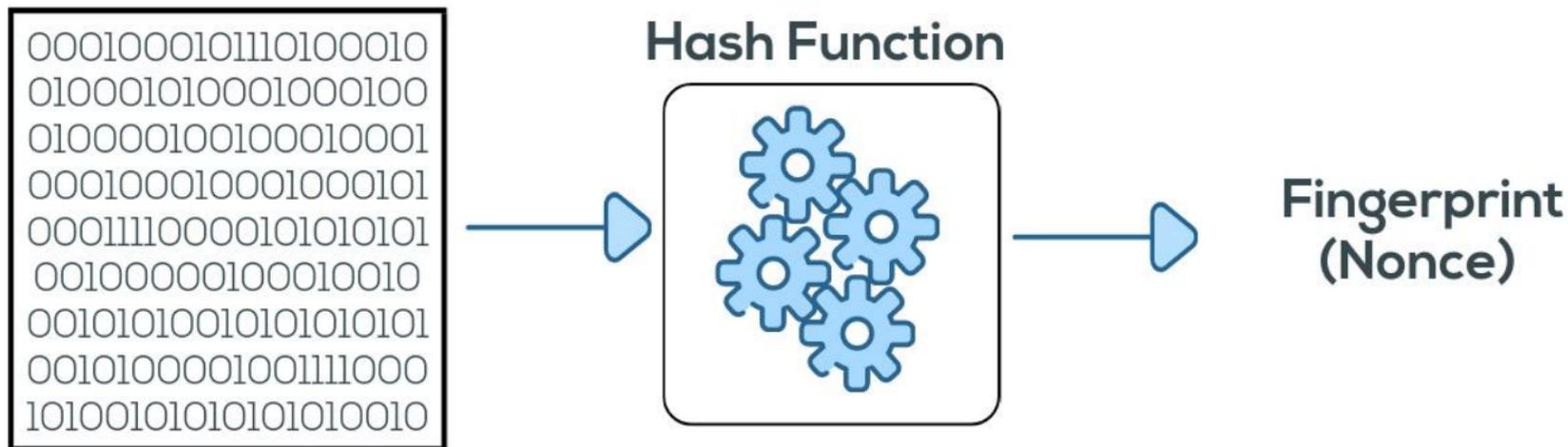
Private Keys are used to sign a transaction, in other words to verify it is actually you creating the transaction.

A Block in a Blockchain

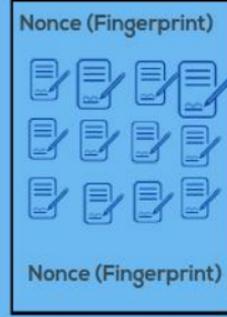
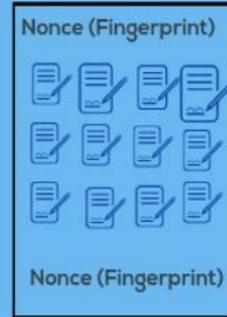
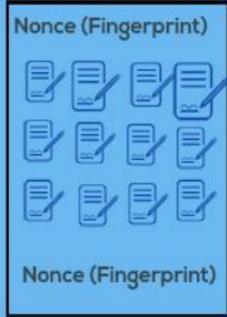
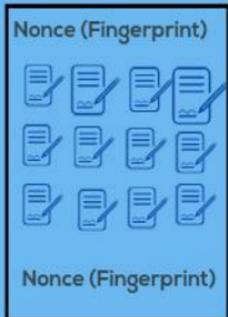
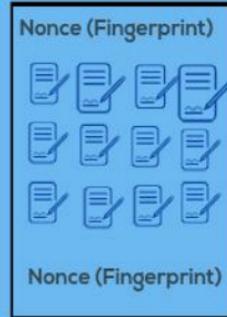
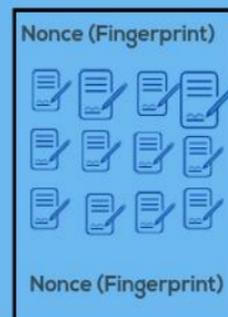
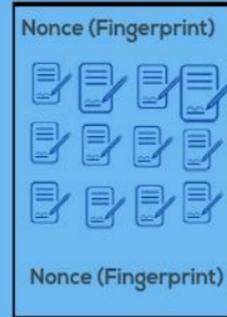
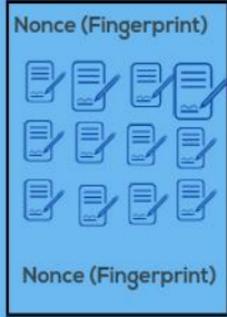
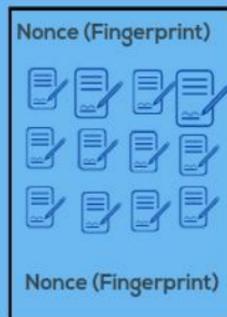
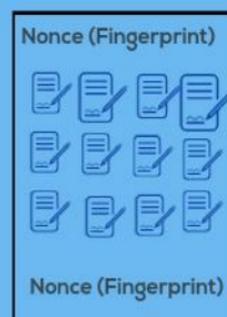
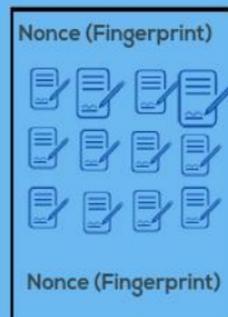
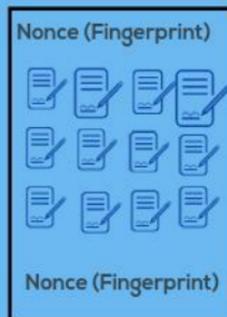


Blocks are made up of numerous transactions, all identifying public keys and signed with Private keys.

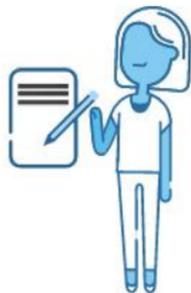
Blocks- Hashing



Why would we want to
have a Hash for each
block?



Distributed Blockchain



This means everyone has
a copy of the entire
blockchain.

 **bitcoin**

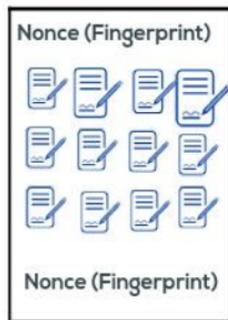


These are Native Tokens



Mining

Since the Processing of transactions takes computing power, cryptocurrencies are paid to the computers doing the work.



Cryptocurrencies

Like Stocks,
Cryptocurrencies are
traded on exchanges.



Accepting Cryptocurrencies



Because of exchanges and real-world value, cryptocurrencies can be accepted as payment.

Risks?

Accepting Cryptocurrencies

1. Establish an account with a company like Bitpay.



2. Build in a buffer to the current market value.



3. Calculate the transaction fees into pricing.

Blockchain in Aviation

Parts Tracking

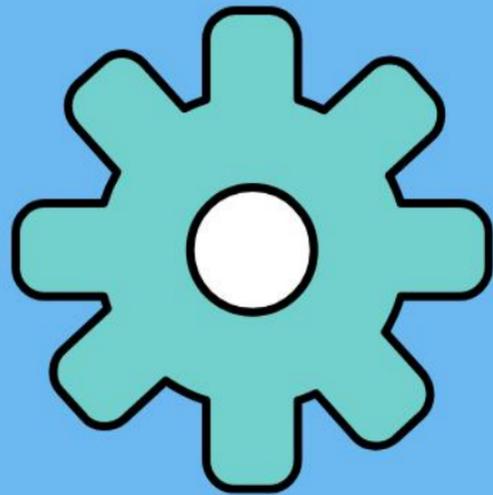


Record Verification
(Logbooks)



Streamlined Operations
through Connectivity

Parts Tracking



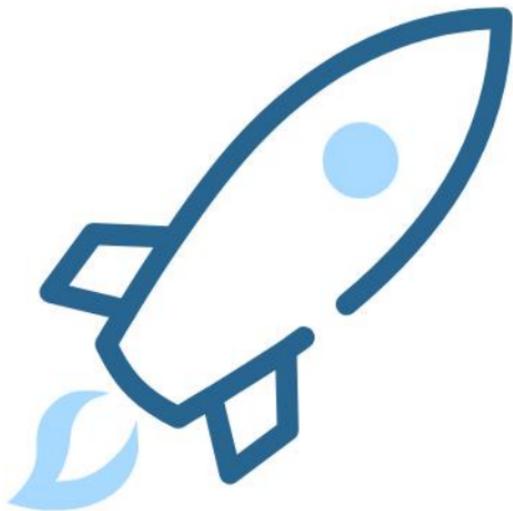
Record Verification



Streamlined Operations



The Near Future



A decentralized fabric connecting centralized systems together.

Allowing...

companies to coordinate, mediate and transfer value between each other systematically.

Questions?

