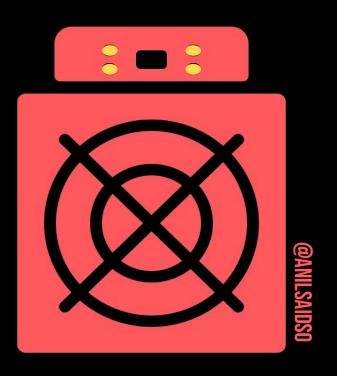
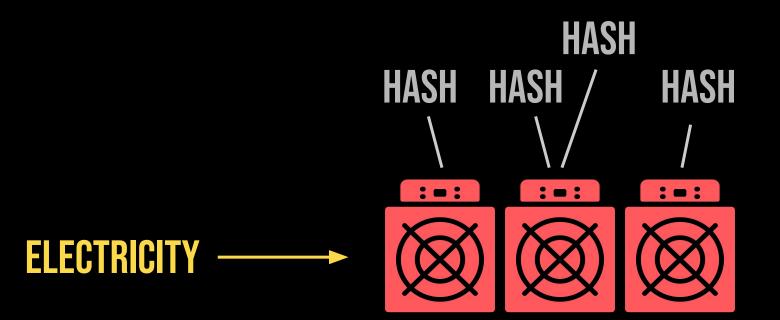
PROOF



Miners consume electricity from an electrical grid or generated directly from an energy source onsite.



While 'miner' is a helpful descriptor, these machines are actually engaged in the process of 'hashing' data with the goal of achieving a certain output.

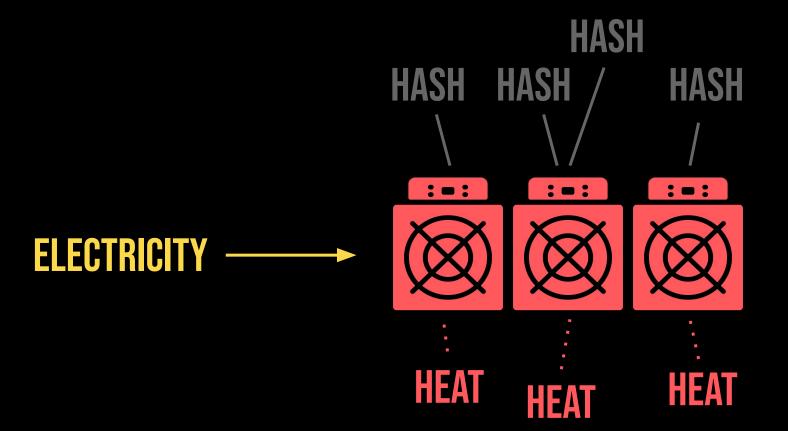
HASHING (verb)

Using an algorithm to convert a piece of data into a unique fixed-length string output.

STAY HUMBLE, STACK SATS

HASH

66A91DE5...

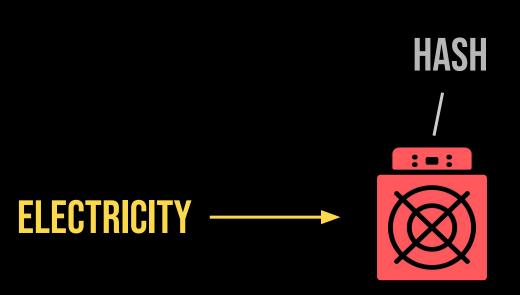


Miners produce heat as a byproduct of producing hashes.

THERMODYNAMICS 1st Law

Energy cannot be created nor destroyed in isolated systems. It can only be transformed.

Miners expend computational power (converting electricity into hashes) and dissipating heat as the byproduct.



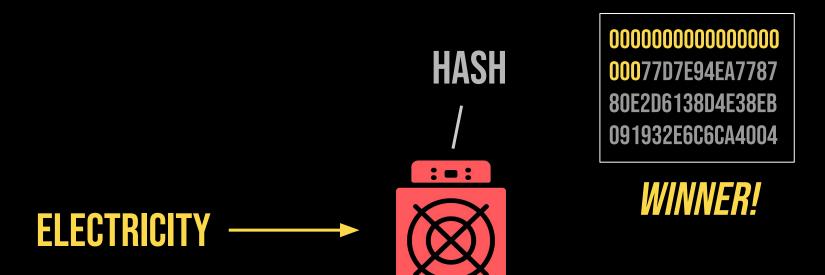
26A03CAD6CEF052E 5772286E18D7986D E1B3D2D9F959C56D FCE04CA7B469449E

Miners are engaged in the search for a random number (known as a 'nonce') that produces a hash output meeting the current difficulty level (# of leading zeros).

NONCE (noun)

A random number that is generated to produce an output meeting certain specifications (i.e., leading zeros) when combined with existing data.

DATA + NONCE HASH NEW OUTPUT



The winner has the right to claim tx fees & mint themselves new bitcoin. This is done by proposing a new block to the network and including a self-paying 'coinbase' tx.

21M 19.2M

TRANSACTION FEESfrom circulating supply

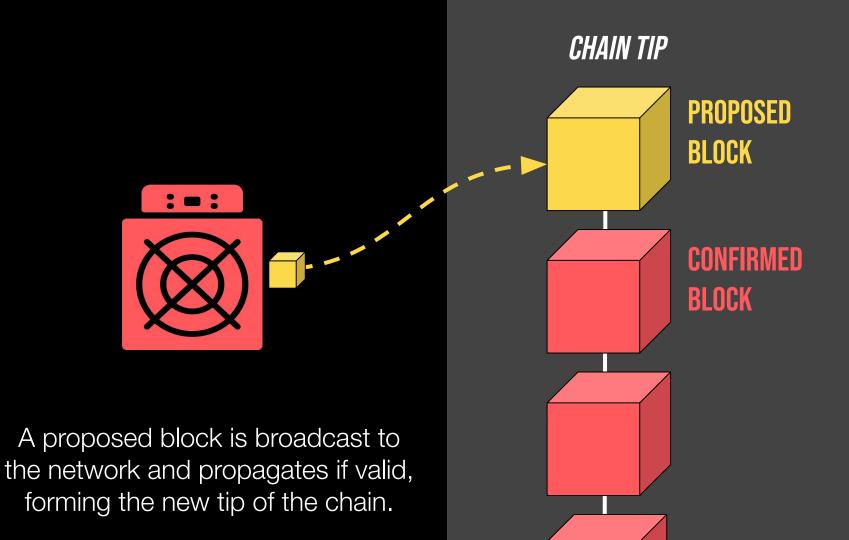
REMAINING BITCOIN issued w/ new blocks

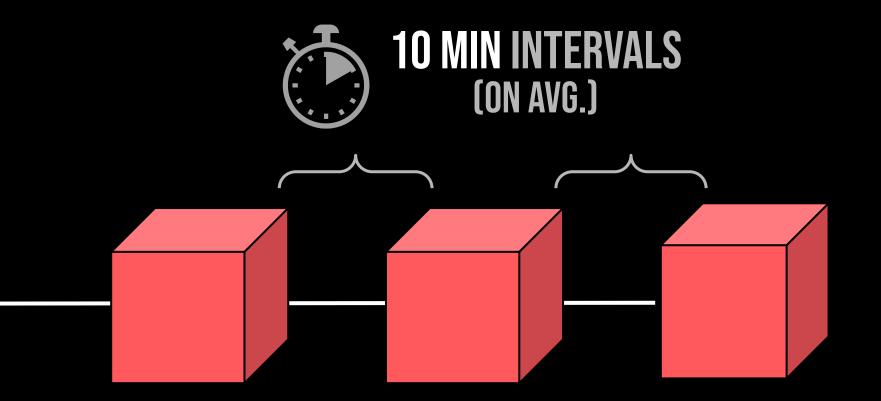
@ANILSAIDS0

BLOCK SUBSIDY (noun)

A predetermined amount of bitcoin a successful miner is permitted to mint with each block.

50BTC 25BTC 12.5BTC 6.25BTC 3.125BTC





Block production is programmed to occur at a regular interval. If block times stray too far from the targeted 10 minute interval, the level of difficulty adjusts upwards or downwards.

DIFFICULTY (noun)

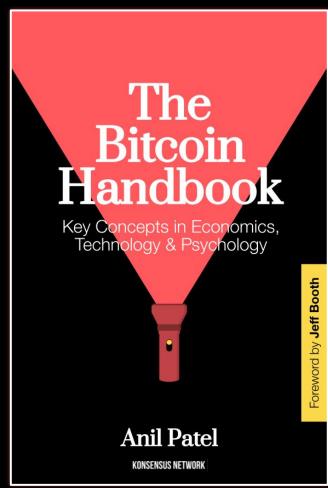
A measure of how likely a new block will be found given certain parameters.

"Bitcoin is robust historical immutability by thermodynamic law.

We only need one proof-of-work immutable ledger."

-ANDREAS ANTONOPOULOS

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