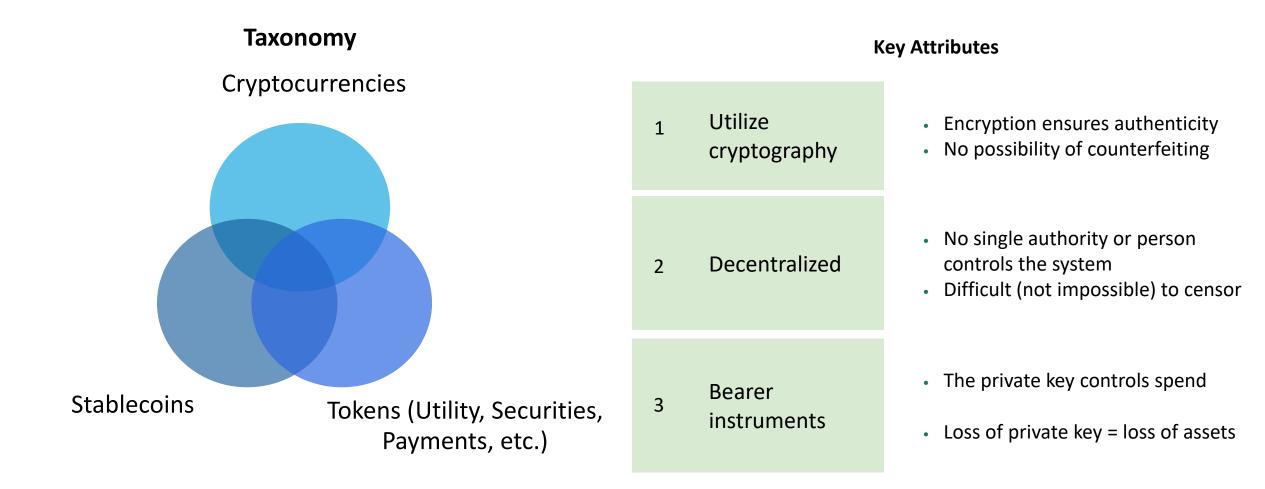
What are digital assets?

Digital records of value stored and tracked using distributed ledger technology / blockchain



Why use/invest in digital assets?



Global

Real-time, 24x7 access for anyone around the world

Blockchain/Digital Assets is ushering in a disruption as large as Internet 1.0



Decentralized

No single point of failure (or control)

Transparent

All transaction records are publicly auditable



Composable

Open source / applications can build on each other



Tokenization of assets

Liquid exchange of any real or financial asset

The History Of Bitcoin

Dec 12 2010: Satoshi is last heard from

May 22 2010: 2 pizzas sold for 10K BTC

Jan 12 2009: 2nd user joins network

Jan 3 2009: First bitcoins minted

Oct 31 2008: Satoshi Nakamoto publishes 9-page Bitcoin Whitepaper In the past decade...

- Price volatility
- Lots of scams
- Massive increase in cost to hack
- Hard fork
- 1000s of new tokens emerge

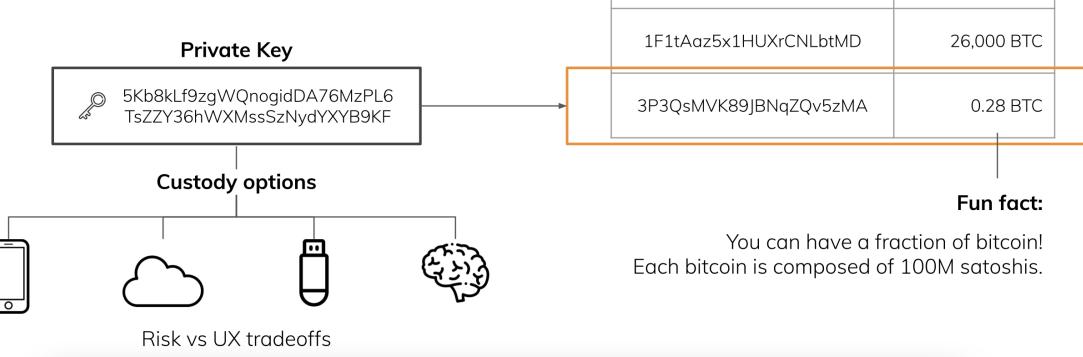


- Daily Settled: ~20B
- Market Cap: ~1.3T
- Hash power: 143.389M
- Developers: 8,000
- Up-time 99.98%



What does it mean to "have some bitcoin"?

Ownership is controlling the **private key** that allows you (and only you) to transfer bitcoin stored at some public address on a shared ledger.



Bitcoin Public Ledger

Amount

5 BTC

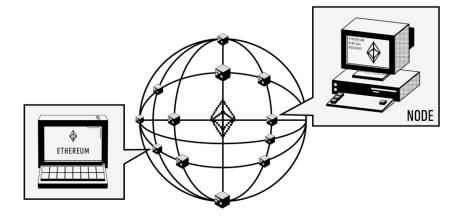
Public address

bc1qar0srrr7xfkvy5l643lydnw9r

What is Ethereum?

Ethereum is <u>different</u> from Bitcoin

- Mission and Vision
 - Bitcoin is Store of Value (digital gold)
 - Ethereum is a global, decentralized, permissionless world computer
 - "Bitcoin is like a Calculator, Ethereum is a full computer"
- > Utility
 - Ethereum is a world computer and enables "smart contracts" -- expressive programs that execute
- > Roadmap
 - Ethereum plans to move to proof-of-stake and sharding for higher throughput and scalability, aims to be a global platform for unstoppable applications
- Data Structure

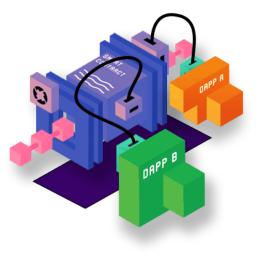


From ethgas.io

Ethereum aims to become a global, open source platform for decentralized applications

Ethereum Smart contract Examples

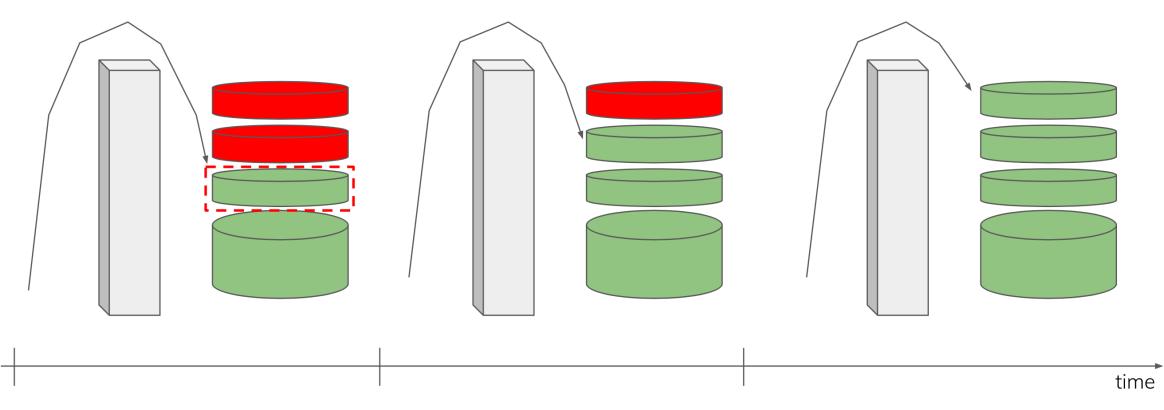
- Multi-Sig "Safety" Contract
 - Store your funds, and if keys are lost (e.g., death of the owner), funds will be eligible to be sent to other accounts after a time-lock expires
- Gambling Contract
 - Play gambling-type games that can be provably fair, pay out winners instantaneously every time
- > DeFi -- Financial Contracts
 - Repliating financial services, e.g., lending
 (Compound), borrowing (MakerDAO), exchange
 (Uniswap), exotics (Opyn, Synthetix, etc)



Smart contracts are like legos, can interact and build on top of each other

Changing history becomes infeasibly expensive

E.g. making a change 3 periods ago means re-doing work x3



Anyone trying to change history "falls behind" other miners and won't catch up.

<u>Proof of Stake (PoS) is an innovative category of consensus</u> <u>algorithms that verify and secure the blockchain</u>



- Miners solve computationally intensive cryptographic problems to validate the blockchain
- The **first miner to solve the problem** produces the next block and receives a reward
- Miners are incentivized to properly validate because of the **cost of electricity to solve problems**
- Uses large amounts of energy in the process

PROOF OF STAKE



- Validators "stake" their holdings, using them as collateral to validate the blockchain
- A validator is chosen **based on the size of their stake** to produce the next block & receive a reward
- "Slashing" incentivizes validators to properly validate, as bad behavior results in loss of funds
- Energy efficient and much more scalable
- Staked funds may be **subject to a lockup period** where they cannot be withdrawn

DeFi Overview

What is DeFi? Short for Decentralized Finance

- Bringing Financial Tools onto the internet in a way that is accessible, programmable, transparent, and useful for everyone
- An enabling technology, DeFi can create new products not possible before
- Enabled by the trustless and permissionless nature of crypto

Examples

Examples		
Category	Traditional Finance	Decentralized Finance
Borrowing	CHASE LendingClub Bank of America.	MAKER
Lending	Marcus: by Goldman Sachs [™] PROSPER	Compound AAVE
Trading	Ameritrade robinhood Fidelity. coinbase	Balancer

Confidential Treatment Requested - Contents provided are exempt from disclosure pursuant to the New York Freedom of Information Law (N.Y. Pub. Off. Law, art. 6, §§ 84-90).

Fractionalization of assets



Last Round:

Investors:

\$7M Series A Sep'18

MARINE



YIELDSTREET

Last Round: \$12.8M Series A Jan'18 Investors: Social Leverage, Anthemis Greycroft, FJ Labs, Saturn Group, Upfront Ventures Partners, The Raine Group MUSIC



Royalty Exchange

Last Round: \$3,37M Series B-II Nov'18 Investors: Grotech Ventures, Techstarts

MUNICIPALITIES





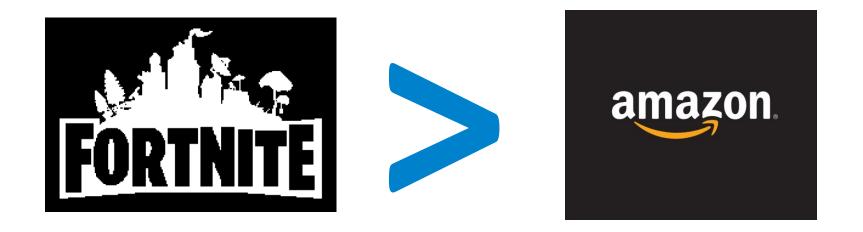
Last Round: \$25M Series B May'17 Investors: 8VC, Abstract Ventures, Sound Ventures, Fintech Collective, Village Capital ART





Last Rounds: Undisclosed

Whole New Asset Classes (gaming)



<u>Skins/NFTs</u>



