

Introduction to Crypto Economy

A dark blue, solid-colored shape that starts from the bottom-left corner and extends diagonally upwards to the right, covering the bottom half of the slide.

Introduction

- Hello! I am Shailesh Shah. I am an engineering leader with 20+ years of experience at companies like Intel, Microsoft and Amazon. Right now, I work as an Engineering leader at coinbase, (I am not here representing my employer today, though).
- As an engineer, I started learning more about blockchain technology which is powering the backbone of the crypto and got dragged toward the deeper end. I don't consider myself an expert, but I love to talk and learn about crypto, and I am hoping that I can share some of my learnings with all of you.

Disclaimers

- Not a financial advice
- I work for coinbase
- I have personally and professionally invested in crypto.
- Anyone wishing to invest should seek his or her own independent financial or professional advice.

Focus areas

- Pre-Bitcoin
- Introduction to Bitcoin
- Technology
- Other cryptos
- Web 3
- Investing

What is 'Money'



Problems

- Centralized control
- Printing
- Inflation
- Backed or not
Backed?
- Gold and Fiat

Welcome to the bitcoin

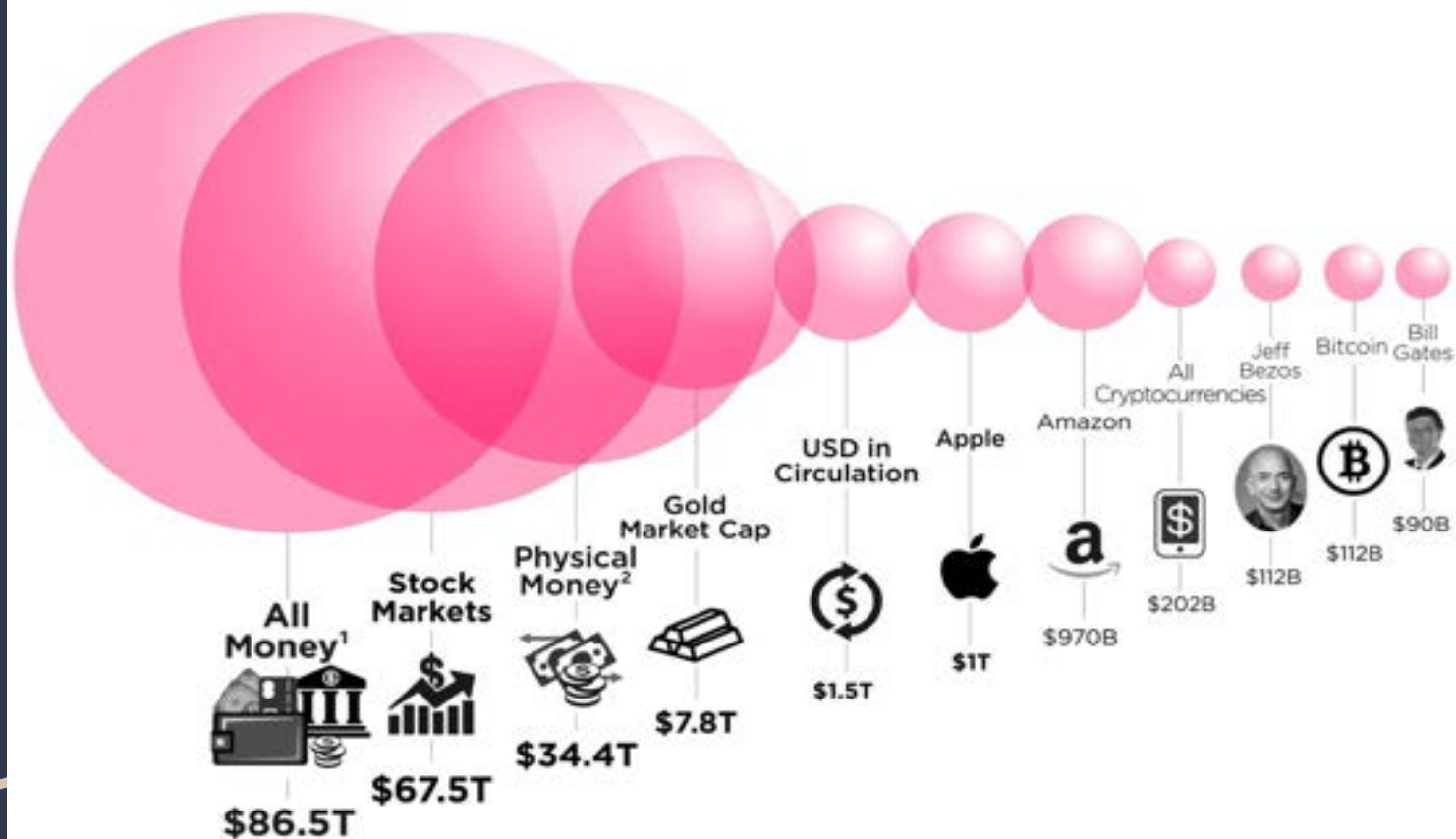
Quiz:

1- Who invented bitcoin?

2- Was Bitcoin the first attempt to crypto currency?



Putting the World's Money into Perspective



* All figures are shown as of latest available data on September 17th, 2018

Article & Sources:

<https://howmuch.net/articles/worlds-money-in-perspective-2018>

<https://coinmarketcap.com>

<https://www.forbes.com>

<https://www.forbes.com>

¹ All Money = money in any form including bank or other deposits as well as notes and coins.

² Physical Money = money in forms that can be used as a medium of exchange, generally notes, coins, and certain balances held

WHY?

In addition to the money properties, it has couple unique properties.

- Constrained supply
- Decentralized
- Universal access.
- Programmable

Other 'cryptos'

- Smart contract platforms
 - Ethereum, Cardano, Solana
- dApps
 - Polygon, Aave, Uniswap and many more
- Oracle Services
 - More [here](#).

Smart contracts applications

- Automated Payments
- Supply Chain Management
- Insurance
- Real Estate
- Engagement Contracts
- Employment Contracts
- Mortgage Transactions
- Many more, which we don't even know today.

Other Crypto types

Stablecoins

- USDC
- USDT
- DAI
- Gemini Dollar

NFT (ERC 721)

- Applications (Art, Fashion, Licenses & Cert, collectibles, Sports, Gaming, Internet naming etc.)
- Check out OpenSea.
 - Everyday's - 69 MM, CryptoPunk, 7.6 MM, CROSSROAD by Beeple 6.4 MM

Metaverse

Technology

- What is cryptography?
- What is Digital Signatures?
- What is public key encryption?
- What is blockchain?
- What is double spend problem?
- Proof of work
- Proof of Stack
- Mining
- Halving
- Forks

Web 3

User Controlled Internet

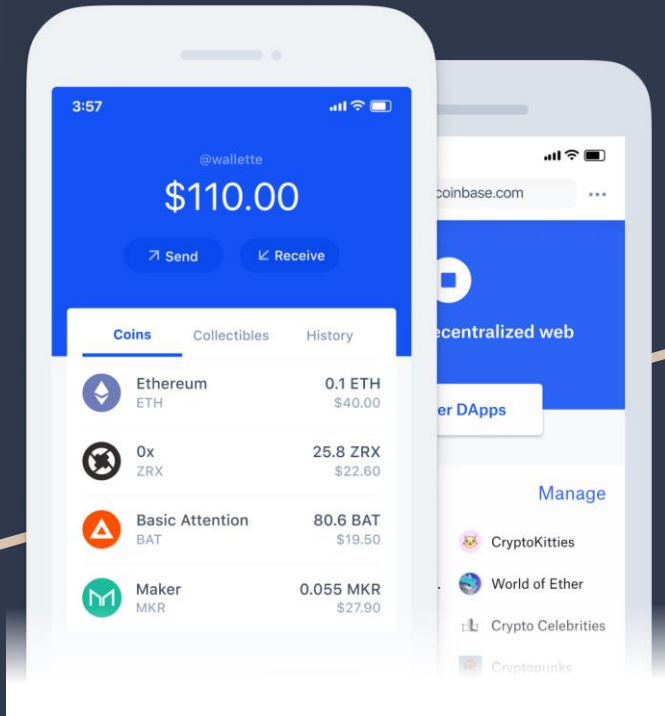
- Decentralized
- p2p
- Examples
 - Dropbox -> Sia
 - GoDaddy -> ENS
 - Google -> Erasure/Ocean
 - Spotify -> Audius
 - Upwork/Fiverr->Brain trust
 - Messaging->Whisper
 - Identity->Civic
 - Social Network->Steemit

Decentralized Finance Examples

- Payments = Flexa
- StableCoins = Augmint
- Insurance = Nexus Mutual
- Index funds = Bitwise
- Exchanges = Uniswap
- Lending/Loans = Compound
- Derivatives = Synthetix

How do I participate in crypto economy?

- Mining and Validating
 - High Difficulty
- Buy/Sell
 - Easy
- Stocks of the various crypto companies
 - Easy
- ETFs (Coming tomorrow?)
 - Easy
- dApps
 - Medium
- Crypto Native Indexes
 - Medium



How to Custody (Store) your crypto

- Hardware Wallets
 - Trezor
 - Ledger
- Software Wallets
 - Mycelium
 - Metamask
 - Argent
- Regulated Exchanges
 - Coinbase
 - Gemini
 - Binance
 - Fidelity
- Cold Storage

Risks

Government Regulations

- See what happened in China
- Ban crypto mining
- Ban exchanges
- Outlaw the wallets and nodes

Protocol attacks

CBDC

Misconceptions

- Not a viable currency
- Slow
- Volatile
- Bubble
- Easy to hack
- Bad for the environment
- Not backed by anything
- Mostly used by criminals
- Government will shutdown

Don't forget the
taxman!

Taxed as Property

All conversions are taxable

Thank you!

Questions and comments, please send it to
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