



# Cryptocurrency and Blockchain: An Introduction to Digital Currencies and DEFI

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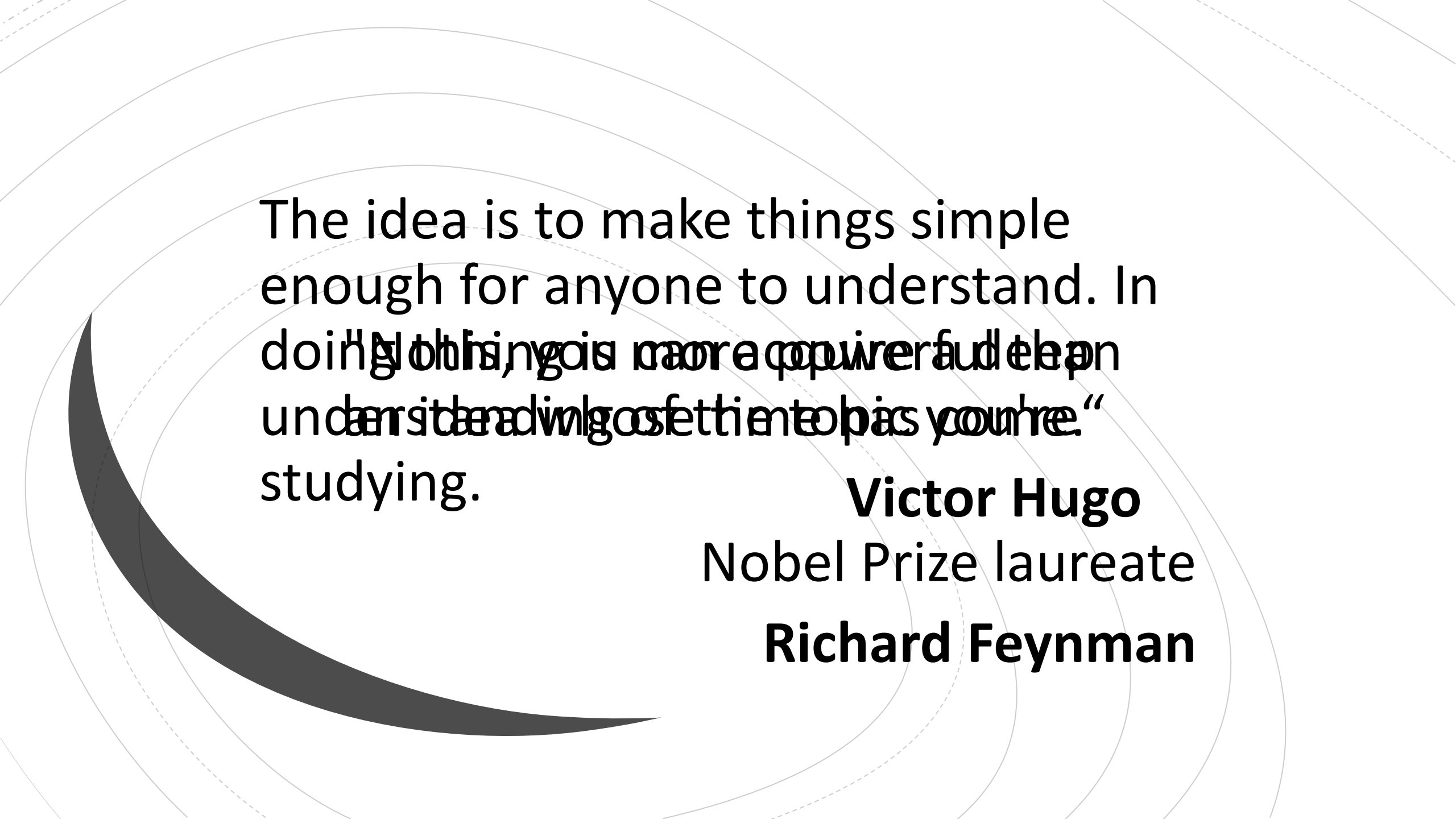
How to Buy, Trade, and Mine  
Crypto securely and safely

Global, Decentralized and Unstoppable.



# Course Outline

- Introduction
- What is Cryptocurrency
  - What is the Blockchain
- How to Buy, Trade, and Mine Crypto securely
  - Basics of Cryptocurrency security
  - Advanced Cryptocurrency security
  - How to protect your digital assets/investments
  - Cyber attacks and preventive countermeasures –
  - Introduction to Private Banking
  - Intro to HODL best practices
  - What is a Node and why should you have one?
- Introduction to DEFI
  - How to research and evaluate cryptocurrencies risk vs reward
- Introduction to NFTs
- Best practices and conclusion



The idea is to make things simple enough for anyone to understand. In doing so, nothing is more powerful than understanding a difficult topic as you're studying.

**Victor Hugo**

Nobel Prize laureate

**Richard Feynman**



According to the philosopher Aristotle, money has to respect three main criteria:

1. A medium of exchange.
2. A unit of account.
3. A store of value.





# Disclaimer

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CAN CRYPTOCURRENCY  
EVER BE SIMPLE?



WWW.SIMPLYCRY



- Born in Bronx and grew up in Jamaica Queens.
- Extensive experience with Crypto and DEFI
- Started mining crypto in 2012
- Taught Economics and Tech
- Avid reader and pilot

# BTC TO THE MOON!



#OPE "THE BLACK PICASSO" -2022







# SMART CONTRACTS

What they don't want you to know!

**Hopeton Smalling** is a New York based Bitcoin Evangelist, Entrepreneur, Tech Guru, Entertainment Executive, and award-winning Educator with over 20 years of experience teaching children and adults. His expertise in Micro/Macro Economics, Blockchain, Cryptocurrency Disruptive Technologies. His journey of "HODLing" began in 2012 where he began mining Bitcoin, which has led him to be respected as his "Diamond Hands". Currently, he provides his expertise to A-List clients which includes celebrities, entertainers, private equity, and high net worth individuals. He has completed an MBA with specialty in Global Economics and ERP management. He has earned 6th year credit of Educational Specialist and has completed his Doctoral Coursework. He is an Avid reader, Pilot, Mentor, and Social Entrepreneur. He is focused on building his legacy to break down barriers for everyday people to understand, use, and benefit from Cryptocurrency. The Blockchain and Artificial Intelligence offer new opportunities to build wealth, eliminate poverty, and engage our youth!

# SMART CONTRACTS

WHAT THEY DON'T WANT YOU TO KNOW!



HOPETON SMALLING

## Hopeton Smalling, in his new book "Don't Buy Beer With Your Bitcoin (BTC):

Don't Get Robbed or Scammed, Build Generational Wealth Now!". Challenges all Americans with a warning about Bitcoin and the new collaborative economy defined by the evolving Fourth Industrial revolution.

**Bitcoin (BTC)** is the most successful decentralized currency that has ever existed on the planet. This safe-haven, hard currency, is a reliable and stable store of value. "Bitcoin is a bank in cyberspace, run by incorruptible software, offering a global, affordable, simple, & secure savings account to billions of people that don't have the option or desire to run their own hedge fund." - Michael Saylor. Surviving the global COVID-19 pandemic, Bitcoin has earned its position as a replacement for similar assets such as Gold.

Conversely, Warren Buffet an American Billionaire, describes "Bitcoin as rat poison squared". This threat or trap can be clarified when investors do not understand how to manage risks and confuse any of the following:

*DEFI, ETH, Altcoins, NFT, Cold/Hot Wallets, Gas, Satoshi, BIP, Private/Public Keys, ECDSA, Hash, HTLC, Proof-of-work, SHA, UTXO, and/or WIF.*

This book will reveal facts about Bitcoin that profiteers around the world do not want you to know. They would like you to transfer your valuable assets to their portfolios and encourage you to consume your future wealth today, even to buy a glass of beer. However, those who will be affected by this massive transfer of wealth will be those who lack discipline and knowledge about Bitcoin. Don't be fooled, all cryptocurrencies are not the same, learn the importance of Bitcoin, and how to build your own secure private banking system and protect generational wealth now.

DON'T BUY BEER WITH YOUR BITCOIN!

DON'T BUY BEER WITH YOUR

# BITCOIN!

DON'T GET ROBBED OR SCAMMED, BUILD GENERATIONAL WEALTH NOW!



HOPETON SMALLING





happy  
bitcoin  
pizza  
day

may 22nd

**FUN FACT:**

on 22nd May 2010

Laszlo Hanyecz, a Florida programmer made the world's first real bitcoin transaction by spending 10,000 bitcoins for 2 pizzas 🍕

Do you know what that pizza is worth now at today's bitcoin price?

#bitcoin #funfact



# Summary & QA

TIME FOR  
QUESTIONS







# What is Cryptocurrency?

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Global, Decentralized and Unstoppable.



JUST IN CRYPTOCURRENCY

# Deutsche Bank says crypto could replace cash by 2030 as fiat system looks 'fragile'



by [Yogita Khatri](#)

[Download PDF / Print](#)

December 7, 2019, 8:45AM EST · 2 min read







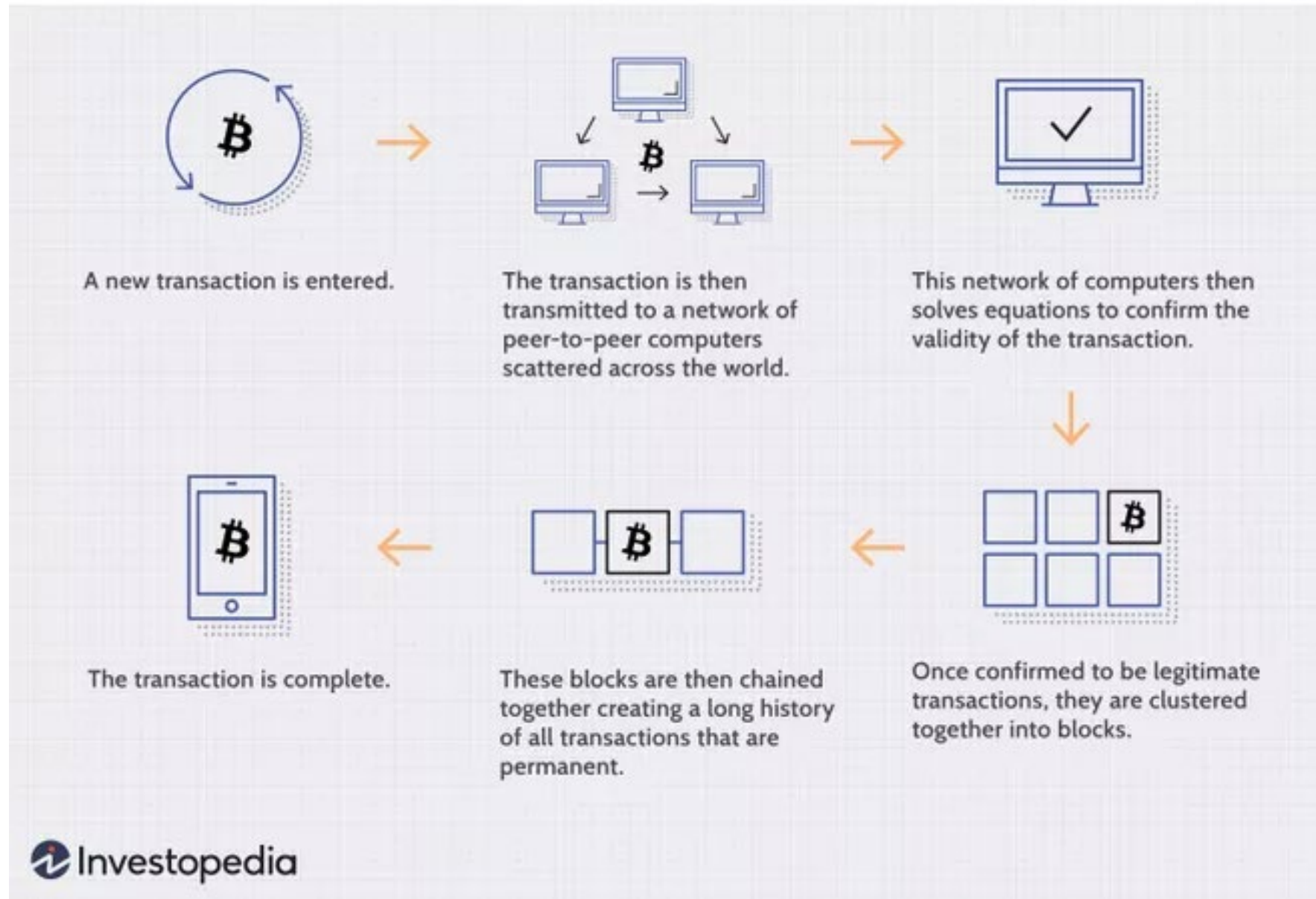
# What is Cryptocurrency?

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- **1. What is cryptocurrency?**
- Cryptocurrency is a form of payment that can be exchanged online for goods and services. Many companies have issued their own currencies, often called tokens, and these can be traded specifically for the good or service that the company provides. Think of them as you would arcade tokens or casino chips. You'll need to exchange real currency for the cryptocurrency to access the good or service.
- Cryptocurrencies work using a technology called blockchain. Blockchain is a decentralized technology spread across many computers that manages and records transactions. Part of the appeal of this technology is its security.



# What is the Block Chain?





# How many cryptocurrencies are there?

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- **What are they worth?**
- More than 15,000 different cryptocurrencies are traded publicly, according to [CoinMarketCap.com](https://www.coinmarketcap.com), a market research website. And cryptocurrencies continue to proliferate. The total value of all cryptocurrencies on Dec. 17 2021, was about \$2.1 trillion, having fallen off an all-time high above \$2.9 trillion weeks earlier. The total value of all bitcoins, the most popular digital currency, was pegged at about \$868.7 billion









# Crypto Assets Vs Crypto Currencies

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- **Crypto assets – Bitcoin (BTC)**
- Crypto assets are **digital assets which use cryptographic techniques to generate a medium of exchange or property**. Cryptocurrencies, utility coins, security tokens
- **How is virtual currency treated for Federal income tax purposes?**
- Virtual currency is treated as property and general tax principles applicable to property transactions apply to transactions using virtual currency. For more information on the tax treatment of virtual currency, see Notice 2014-21. For more information on the tax treatment of property transactions, see Publication 544, Sales and Other Dispositions of Assets.
- **Cryptocurrency – All other Alternative (ALT) Coins**
- Form of payment that can be exchanged online for goods and services, and utilize **cryptographic techniques for secure medium of exchange**



# How many cryptocurrencies are there?

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#	Name	Price	24h %	7d %	Market Cap	Volume(24h)	Circulating Supply
1	Bitcoin BTC <a href="#">Buy</a>	\$47,875.26	-2.81%	-2.44%	\$906,086,327,682	\$25,896,667,347 540,310 BTC	18,904,668 BTC
2	Ethereum ETH <a href="#">Buy</a>	\$4,010.04	-2.96%	-0.95%	\$476,442,773,606	\$18,076,708,579 4,507,329 ETH	118,798,411 ETH
3	Binance Coin BNB <a href="#">Buy</a>	\$541.27	-2.43%	-4.05%	\$90,390,428,566	\$1,262,136,145 2,329,071 BNB	166,801,148 BNB
4	Tether USDT <a href="#">Buy</a>	\$0.9998	-0.08%	-0.13%	\$76,267,438,344	\$53,646,771,247 53,662,577,190 USDT	76,289,909,012 USDT
5	Solana SOL <a href="#">Buy</a>	\$187.67	-7.10%	-10.75%	\$57,660,921,953	\$1,648,685,829 8,805,963 SOL	307,978,595 SOL
6	Cardano ADA	\$1.30	-5.58%	-3.27%	\$44,500,162,584	\$1,219,851,062 936,390,811 ADA	34,159,533,596 ADA
7	USD Coin USDC <a href="#">Buy</a>	\$0.9997	-0.12%	-0.08%	\$42,067,663,690	\$3,470,609,278 3,472,580,329 USDC	42,091,555,027 USDC
8	XRP XRP	\$0.8384	-3.07%	-1.39%	\$39,633,350,882	\$1,696,478,884 2,022,388,665 XRP	47,247,295,769 XRP
9	Avalanche AVAX <a href="#">Buy</a>	\$114.41	-3.84%	-34.70%	\$27,903,913,791	\$1,370,124,479 11,940,865 AVAX	243,187,304 AVAX
10	Terra LUNA <a href="#">Buy</a>	\$73.43	-13.51%	-25.12%	\$27,463,869,322	\$2,201,407,896 30,025,703 LUNA	374,588,461 LUNA









# Key History and Milestones

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- Bitcoin started 12 years ago in 2009
- Only 21 million Bitcoin exist to be mined or bought
- \$100 early investment would value over \$10 Million today!
- It took four years in 2013 for the value to reach \$1,000
- Today only 90% of all Bitcoin are available to be purchased



# Key Characteristics of Bitcoin

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- **Fungible:** One unit is identical to another unit.
- **Divisible:** Can be divided into smaller units of value.
- **Acceptable:** Widely accepted as medium of exchange.
- **Limited Supply:** Supply is capped and constant.
- **Uniform:** All versions of the same denomination have the same value.
- **Portable:** Can be transported and exchanged.
- **Durable:** Can be reused without deterioration.



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CRYPTOCURRENCY

# Bitcoin hits fresh record high near **\$68,789.63** climbing 40% so far this year

PUBLISHED FRI, JAN 8 2021-9:21 AM EST | UPDATED FRI, JAN 8 2021-11:00 AM EST



Ryan Browne  
@RYAN\_BROWNE\_

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## KEY POINTS

- The world's most valuable cryptocurrency traded as high as \$41,973, according to data from Coin Metrics.
- Bitcoin is currently up 40% so far in 2021, and on track to post its second-best week since the December 2017 rally.
- The idea of bitcoin as a hedge against inflation has continued to gain traction among investors.





# Bitcoin is set to reach new high!



## Bitcoin will surge to \$1 million in 5 years by an 'enormous wall of money,' former Goldman Sachs hedge-fund chief says

Shalini Nagarajan

© Oct. 15, 2020, 04:24 AM

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YouTube\Real Vision

### Your Market View

NAME	PRICE	+/-	%	DATE
▼ TSLA	852.23	2.24	0.26	Official Close 2/5/2021
▲ AAPL	136.76	-0.63	-0.46	Official Close 2/5/2021
▼ MSFT	242.20	0.19	0.08	Official Close 2/5/2021
▲ NFLX	550.79	-1.37	-0.25	Official Close 2/5/2021
▲ SPOT	310.77	-3.93	-1.25	Official Close 2/5/2021

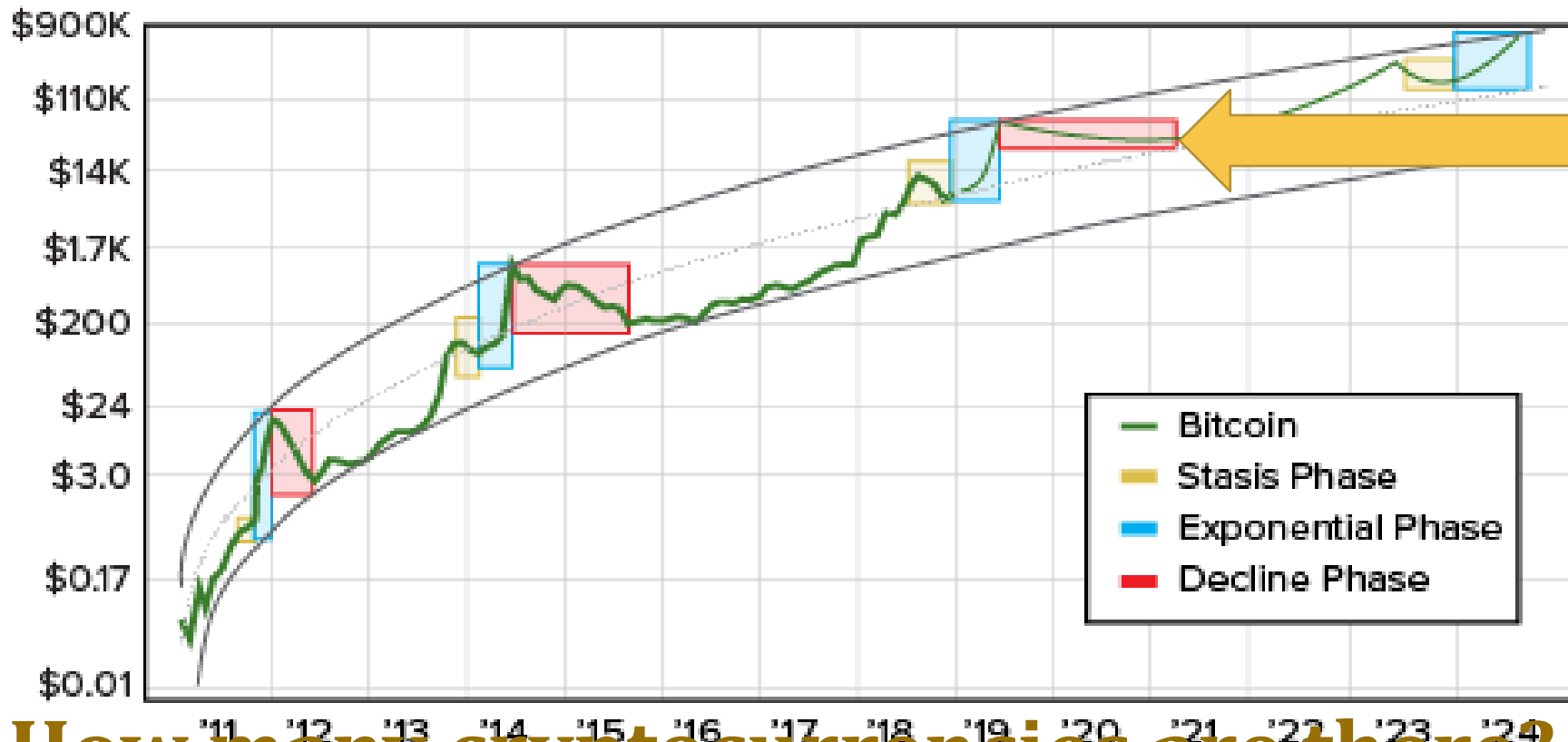


# What do the charts show?



## A Pattern of Exponential Gains

The history of Bitcoin is a history of steep price gains followed by declines and then stagnation. But as the pattern repeats, it takes the Bitcoin price to exponentially higher levels with each cycle.



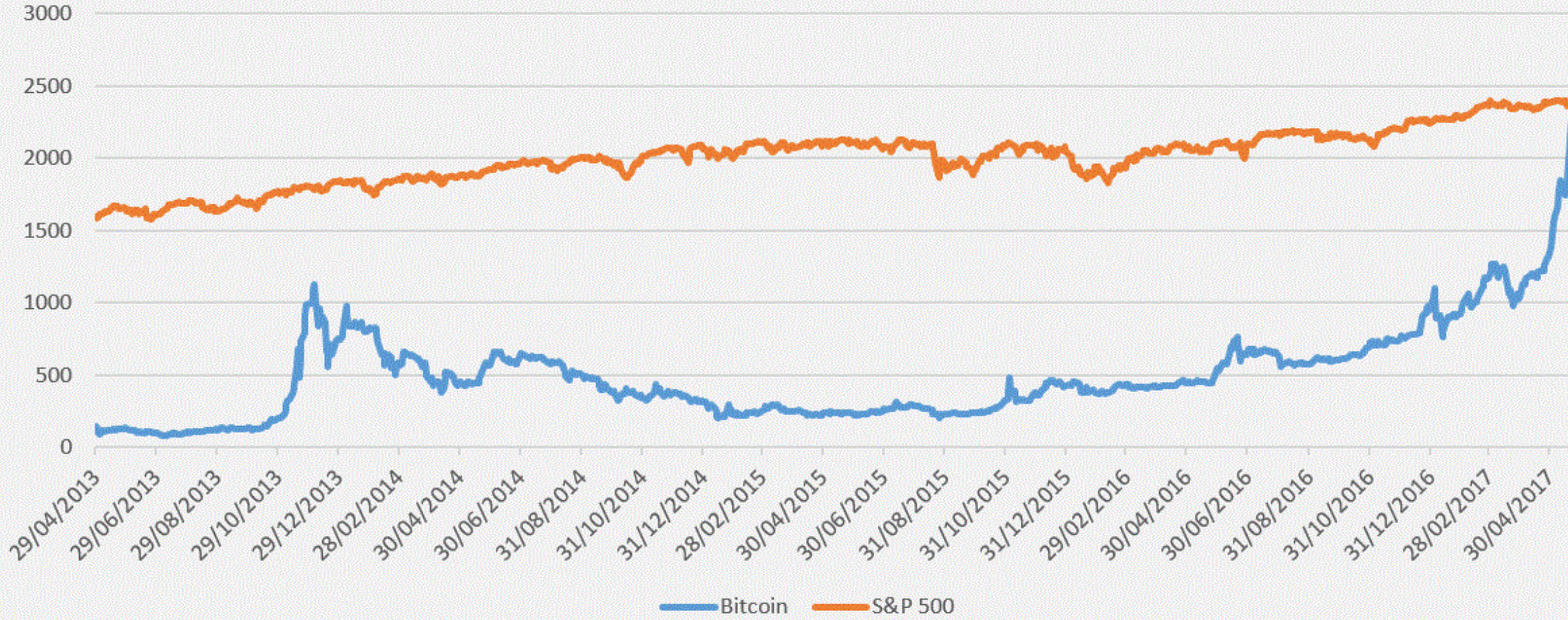
## How many cryptocurrencies are there?

Source: Parabolic Trav





## Bitcoin VS S&P 500







# Dow's Best Stock Can't Touch Bitcoin



BTC 135% gain tops performers from the Dow Jones Industrial Average, S&P 500, and Nasdaq – which are Cisco Systems (CSCO), Xerox (XRX), and Beyond Meat (BYND)





# How high will Bitcoin rise?

<https://www.bitcoinprice.com/predictions/>

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Shervin Pishevar is a venture capitalist and angel investor who co-founded Hyperloop One and Sherpa Capital. He has also made investments in several companies including big names such as AirBnb and Uber.

Pishevar has called for Bitcoin to reach **\$100,000 by the end of 2021** via Twitter. The prediction came not long after a December 2020 meeting with MicroStrategy CEO Michael Saylor, whose company invested more than \$1 billion in Bitcoin during 2020.



Winklevoss twins – the famous Bitcoin billionaires have said Bitcoin has the potential to reach a price of \$500,000 by 2030, which would put its market cap on par with that of gold (around \$9 trillion). Tyler Winklevoss said, “Our thesis is that bitcoin is gold 2.0, that it will disrupt gold, and if it does that, it has to have a market cap of 9 trillion, so we think it could price one day at \$US500,000 of bitcoin.”



954116



USD Coin (USDC) \$ 1.00



Polkadot (DOT) \$ 35.44



Dogecoin (DOGE) \$ 0.207750



Bitcoin (BTC) \$ 55,915.87

CRYPTO MEDIA NETWORK

CRYPTOCURRENCY NEWS

# El Salvador Bought the Bitcoin Dip



BY SHRIYANSH SHUKLA – NOVEMBER 27, 2021 NO COMMENTS 3 MINS READ

Facebook

Twitter

LinkedIn





**Investment  
is not gambling!**



# Summary & QA

TIME FOR  
QUESTIONS





# How do you buy, trade, or mine cryptocurrency securely?

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Global, Decentralized and Unstoppable.





# Where can you buy Crypto safely?

## The Best Crypto Exchanges of December 2021

### BEST OVERALL CRYPTO EXCHANGE



#### Binance.US

4.9 Itineris ADVISOR

Fees (Maker/Taker)  
0.1%/0.1%

Cryptocurrencies Available for Trade  
50+

Learn More →

On Binance.US' Secure Website

Why We Picked It



Pros & Cons



### BEST CRYPTO EXCHANGE FOR BEGINNERS

coinbase

#### Coinbase

4.5 Itineris ADVISOR

Fees (Maker/Taker)  
1.99%\*/1.99%\*

Cryptocurrencies Available for Trade  
100+

Learn More →

On Coinbase's Secure Website

Why We Picked It









Pros & Cons



\*Fee amount varies based on purchase amount and method of purchase. 1.99% (0.5% spread fee + 1.49% Coinbase fee) applies to order of at least \$200 made via U.S. bank transfer or Coinbase USD Wallet.

# Where can you buy Crypto safely?

## Best of the Rest

<b>Kraken</b>			
<b>4.8</b>  <small>Reviews ADVICE</small>	Fees (Maker/Taker) 0.16%/0.26%	Cryptocurrencies Available for Trade 90+	<a href="#">Learn More</a> →
<a href="#">Why We Picked It</a> ↓			
<a href="#">Pros &amp; Cons</a> ↓			
<b>Crypto.com</b>			
<b>4.7</b>  <small>Reviews ADVICE</small>	Fees (Maker/Taker) 0.40%/0.40%	Cryptocurrencies Available for Trade 170+	<a href="#">Learn More</a> → <small>On Crypto.com's Secure Website</small>
<a href="#">Why We Picked It</a> ↓			
<a href="#">Pros &amp; Cons</a> ↓			
<b>Gemini</b>			
<b>4.5</b>  <small>Reviews ADVICE</small>	Fees (Maker/Taker) 0.25%/0.35% *	Cryptocurrencies Available for Trade 40+	<a href="#">Learn More</a> → <small>On Gemini's Secure Website</small>
<a href="#">Why We Picked It</a> ↓			
<a href="#">Pros &amp; Cons</a> ↓			

\*For Gemini Active Trader; Gemini web and app trades follow a Coinbase-like structure with a transaction fee, dependent on your purchase amount, and convenience fee of 0.5%.



# Security preparation

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1. Assure your computers are secure
2. Run Malwarebytes or similar scanner or run private banking session on virtual machine such as Tails OS



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Finds threats that others miss



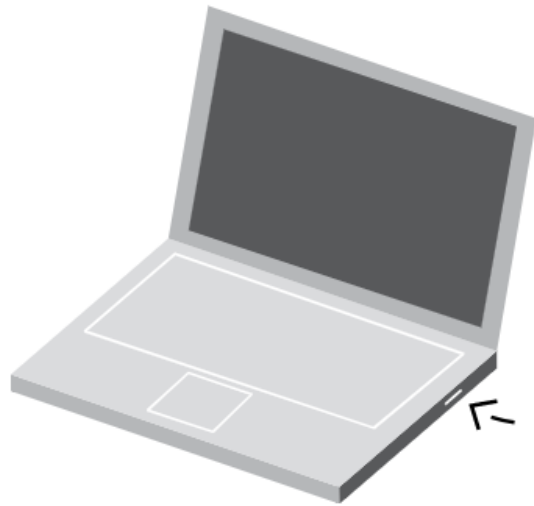
Enhances your privacy at home and on the go



Stays out of your way

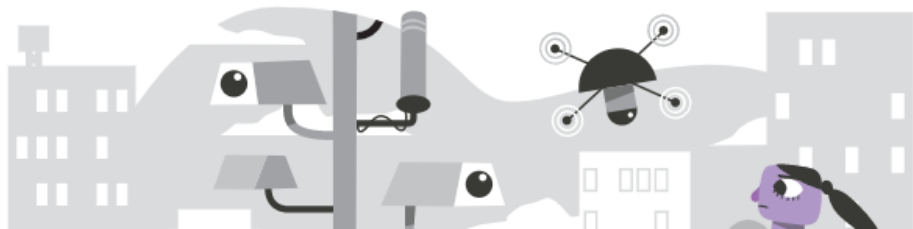


# Tails

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## Tails

is a portable operating system that protects against surveillance and censorship.

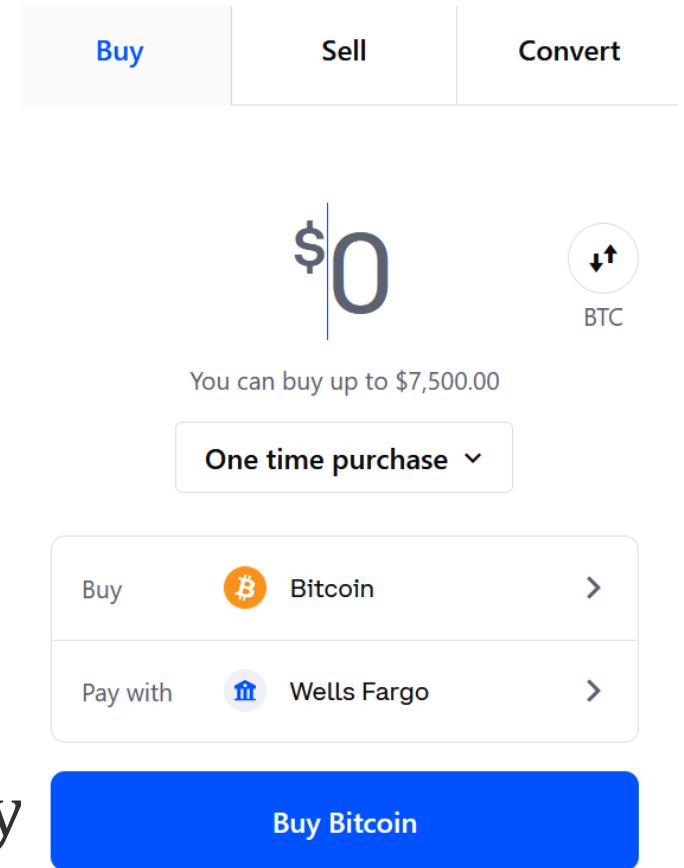




# How do you buy Crypto Securely?

## 7 steps

1. Select a **reputable** exchange
2. Setup account and perform **KYC** (drivers license or passport)
3. Save **Secret Phrase** this is important
4. Setup **two factor** authentication and secure passwords – **SMS or Authenticator**
5. Login to exchange on **secure** internet connected device (computer or mobile)
6. **Select** and purchase Crypto Asset or Currency
7. Move Crypto to your **cold storage & Log Off**



The screenshot shows a user interface for buying cryptocurrency. At the top, there are three tabs: 'Buy' (selected), 'Sell', and 'Convert'. Below the tabs, the price is displayed as '\$0' with a vertical line through the zero. To the right of the price is a circular icon with a double-headed arrow and 'BTC' below it. Below the price, it says 'You can buy up to \$7,500.00'. There is a button labeled 'One time purchase' with a dropdown arrow. Below that, there are two rows of options: 'Buy' with a Bitcoin icon and 'Pay with' with a Wells Fargo icon. At the bottom, there is a large blue button labeled 'Buy Bitcoin'.

# How do you move Crypto from Hot Wallet to Cold Storage?

1. Login to Ledger Live>Click on Accounts
  - a. Select type of crypto you wish to **secure on the Blockchain**. Copy Receive Address
2. Login to exchange on **secure** internet connected device (computer or mobile)
3. Select the crypto you wish to move and paste the address you copied for the Ledger. (**Be sure to perform small tests**)
4. Verify crypto was received into account
5. **Log Off**

Send

Receive



CRO Address

0x706c0B567D8B6F0fb452FC8E990243F3A  
4F72033





## Capex Break Even (Months) for Bitcoin Mining ASICs Units - 40TH

### Percentage Uptime

Electricity Price (\$/kWh)	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%	95%	100%
0	NaN	NaN	24	18	14	12	11	9	9	8	7	7	6	6
0.01	NaN	NaN	NaN	23	17	14	12	10	9	8	8	8	6	6
0.02	NaN	NaN	NaN	NaN	23	16	13	11	10	9	8	8	7	6
0.03	NaN	NaN	NaN	NaN	NaN	NaN	16	13	11	10	9	8	8	7
0.04	NaN	NaN	NaN	NaN	NaN	NaN	NaN	18	14	11	10	9	8	8
0.05	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	15	12	11	9	9
0.06	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	NaN	14	11	10

BTC price \$40k; 40Th Mth difficulty +6%

Calculations provided by Signature Deals, LLC

### Solar is the way!

30000 w x 365 11mil yr = 24 acres - \$30 million - potential 50% fed and state credit - sell tax credits credit vs rebate may change in 12 months

12mil / 400watts per panel

### Bitmain

Antminer T17 (40Th)



BITMAIN

### Profitability



Period	/day	/month	/year
Income	\$11.25	\$337.60	\$4,051.19
Electricity	-\$6.34	-\$190.08	-\$2,280.96
Profit	\$4.92	\$147.52	\$1,770.23

Example per machine w/o solar

TECH

# Bitcoin miners say they're helping to fix the broken Texas electric grid — and Ted Cruz agrees

PUBLISHED SAT, DEC 4 2021•11:16 AM EST | UPDATED SUN, DEC 5 2021•2:57 PM EST



MacKenzie Sigalos  
@KENZIESIGALOS

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## KEY POINTS

- The Texas power grid is struggling, and Republican Senator Ted Cruz thinks bitcoin has the power to fix it.



Business

# Texas Plans to Become the Bitcoin Capital, Vulnerable Power Grid and All

Crypto miners with more than double the power demand of Austin are descending on the anti-regulation state.

By [Naureen S Malik](#) [+Get Alerts](#)

November 19, 2021, 10:00 AM EST



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# Summary & QA

TIME FOR  
QUESTIONS





# Basics of Cryptocurrency security?

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Global, Decentralized and Unstoppable.







Warren Buffett says bitcoin is 'probably rat poison squared'

INVESTING

# Warren Buffett says bitcoin is 'probably rat poison squared'

PUBLISHED SAT, MAY 5 2018•2:55 PM EDT | UPDATED SUN, MAY 6 2018•10:48 AM EDT



**Tae Kim**

@FIRSTADOPTER

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Dec 13, 2020, 05:00pm EST | 49,319 views

# Aren't You Glad You Kept Your Bitcoin? Don't Sell It.



**Kenneth Rapoza** Senior Contributor ⓘ ⊕

Markets

*I write about business and investing in emerging markets.*





# Securing your Bitcoin Transaction

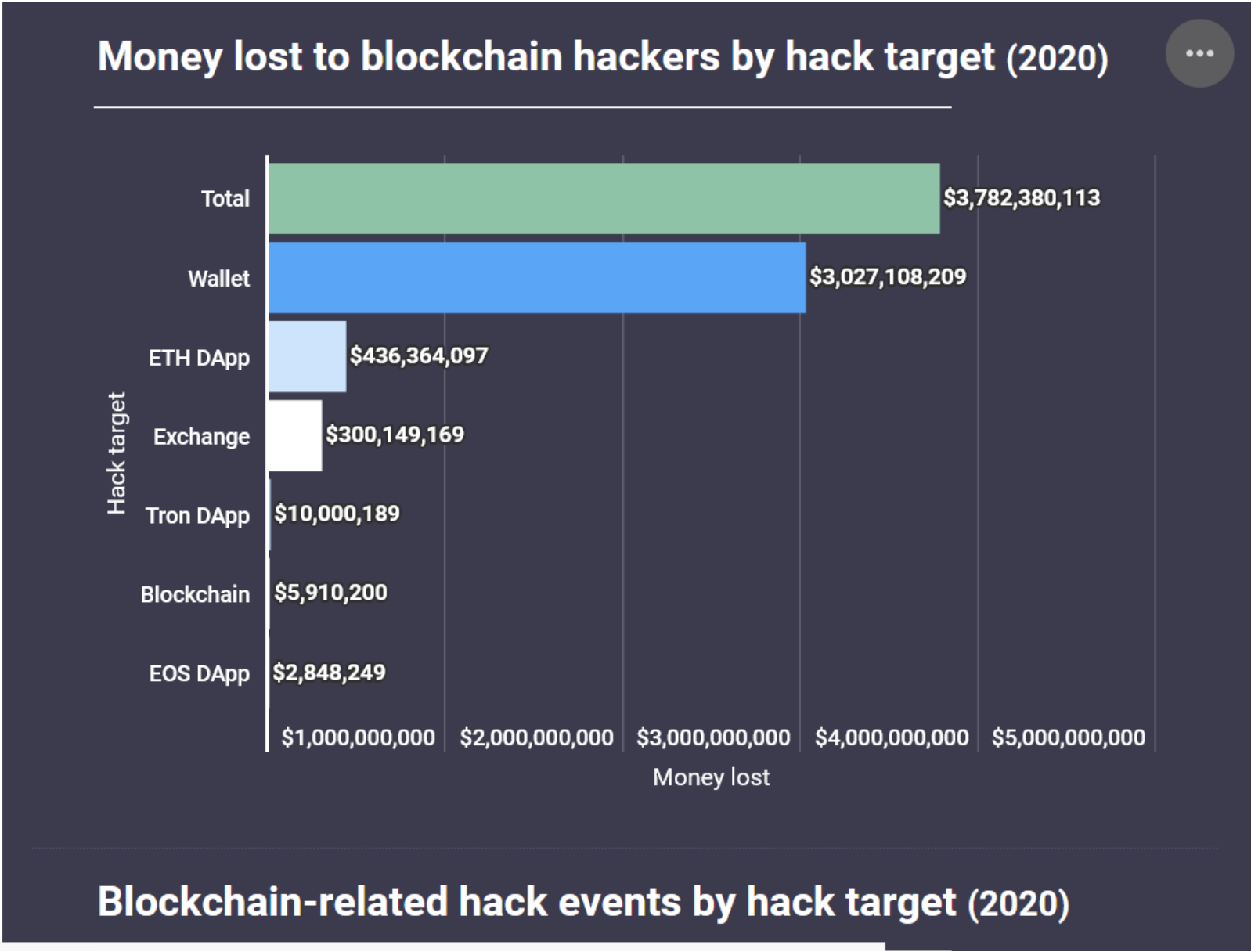
**BLOCKCHAIN**    [WALLET](#)    [CHARTS](#)    [STATS](#)    [MARKETS](#)    [API](#)   

## LATEST BLOCKS

[SEE MORE →](#)

Height	Age	Transactions	Total Sent	Relayed By	Size (kB)
<a href="#">480925</a>	27 minutes	2123	\$ 183,691,730.76	<a href="#">Unknown</a>	999.23
<a href="#">480924</a>	44 minutes	2229	\$ 128,312,733.87	<a href="#">Unknown</a>	999.13





## TECH

# BitMart says it will compensate victims of \$196 million hack and restore trading by Tuesday

PUBLISHED SUN, DEC 5 2021•5:56 PM EST | UPDATED MON, DEC 13 2021•5:06 PM EST



MacKenzie Sigalos  
@KENZIESIGALOS

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## KEY POINTS

- Crypto trading platform Bitmart said on Saturday it had experienced “a large-scale security breach” and that hackers had withdrawn about \$150 million in assets. A third-party security firm, Peckshield, which first publicized the breach, put it closer to \$200 million.
- On Monday, Bitmart said it would reimburse victims.

CNBC TV

Clean A  
Oxypur

UP NEXT | Fi  
ET

# Coinbase is erratically overcharging some users and emptying their bank accounts

'I am FREAKING OUT'

By [Adrienne Jeffries](#) | [@adrjeffries](#) | Feb 15, 2018, 2:07pm EST



Listen to this article



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# Chase Bank to Refund 95% of \$2.5M It Allegedly Overcharged Crypto Buyers



# Cryptocurrency Scam



**If you see a tweet** (or a text, email, or other message on social media) **that tells you to pay with Bitcoin, that's a scam.**

Report scams: [ftc.gov/complaint](https://www.ftc.gov/complaint)



Photographer: Akos Stiller/Bloom

Technology

# Virgil Capital Founder Admits \$100 Million Crypto Fund Fraud

By [Joel Rosenblatt](#) and [Chris Dolmetsch](#)

February 4, 2021, 6:24 PM EST *Updated on February 5, 2021, 10:32 AM EST*



# The 24-year-old founder of 2 crypto hedge funds overseeing \$100 million admits to fraud

Matthew Fox

© Feb. 5, 2021, 03:45 PM

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Scott Heins/Getty Images

- A 24-year-old founder of two cryptocurrency hedge funds pleaded guilty to securities fraud on Thursday.
- The two hedge funds had more than \$100 million in assets, the Department of Justice said.

## Your Market View

NAME	PRICE	+/-	%	DATE
▼ TSLA	852.23	2.24	0.26	Official Close 2/5/2021
▲ AAPL	136.76	-0.63	-0.46	Official Close 2/5/2021
▼ MSFT	242.20	0.19	0.08	Official Close 2/5/2021
▲ NFLX	550.79	-1.37	-0.25	Official Close 2/5/2021
▲ SPOT	310.77	-3.93	-1.25	Official Close 2/5/2021

iShares | MEGATREND ETFs  
by BlackRock

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Visit [www.ishares.com](https://www.ishares.com) to view a prospectus, which includes investment objectives, risks, fees, expenses and other information. But you should read and consider carefully before investing, investing involves risk, including possible loss of principal. ©2021 BlackRock, Inc. All rights reserved. BlackRock, the BlackRock logo and iShares are trademarks of BlackRock, Inc. All other trademarks are the property of their respective owners. MEGATREND is a trademark of BlackRock, Inc. All other trademarks are the property of their respective owners. ©2021 BlackRock, Inc. All rights reserved.



# Common Cryptocurrency Scams



## Phishing and Hacking Scams



Hackers are constantly trying to steal cryptocurrencies by phishing for your private key.



Always store your private key in a safe place offline or use a hardware wallet such as Trezor or Ledger Nano S.

**Example: Fake MyEtherWallet URL and Slack DMs**

Cryptocurrency projects often have telegram or slack groups where users and investors can interact directly with the team members. Scammers will impersonate project administrators and provide fake URL for MyEtherWallet through Slack Direct Messages. Some messages may try to entice you with headlines such as "free airdrop coins". These are all clever attempts to phish your wallet information.

## Cloud Mining Scams



Cloud Mining purports to allow any individual to purchase hashing power (renting mining equipment located at the cloud miner's data center) and participate in mining rewards.



Cloud mining scams are easy to perpetuate because investors usually can not verify the accuracy of the mining company's representations. In some cases, these mining facilities do not actually exist or at a minimum greatly exaggerate their operations.

**Example: GAW Miners**

GAW Miners sold far more computing power than they owned and promised their investors a return that far exceeded their actual returns. In total, GAW Miners sold more than 10,000 investment contracts. By December 2015, the SEC brought a civil action against GAW Miners and its founder Joshua Homero Garza for fraud and securities violations. Further, the U.S. Justice Department initiated a concurrent criminal proceeding. Garza was ordered to pay \$12 Million in civil penalties.

## Pump & Dump Scams



Some cryptocurrency coins have low liquidity and small market capitalization. As a result, it is easy to manipulate their prices.



Pump and Dump groups will identify a low market cap coin and coordinate a buying effort that artificially inflates the prices hoping to attract outside buyers.



Unsuspecting investors often sell their coins at a significant loss once the price returns to the pre-pump values shortly after the scammers cash out.

**Example: Chaincoin**

In July 2017, ChainCoin's price rose from \$0.05 to \$6.00 in a span of one week. This 12000% surge was surprising because the project had largely been abandoned. In addition to social media coverage, various YouTube videos promoting ChainCoin also popped up. Within two weeks, the price collapsed to \$0.50 and never recovered.

## Pyramid and Ponzi Scams



These fraudulent operations provide returns to investors from money received from subsequent investors, rather than from actual profits.



Generally, the company will over promise or even guarantee a baseline return on the initial investment while offering a vague explanation of their business model.

**Example: OneCoin**

OneCoin was an international Ponzi scheme that gathered investment from the public in exchange for a closed source token allegedly on a private blockchain. OneCoin's only internal marketplace was shutdown without warning in January 2017.





**Investment  
is not gambling!**





# Summary & QA

TIME FOR  
QUESTIONS







# Advanced Cryptocurrency security?

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Global, Decentralized and Unstoppable.







Regulatory Risk

Hacking Risk

Risk of Being Copied

Wallet Security

Scaling Risk

Criminal Activity

Exchange Platform Risk

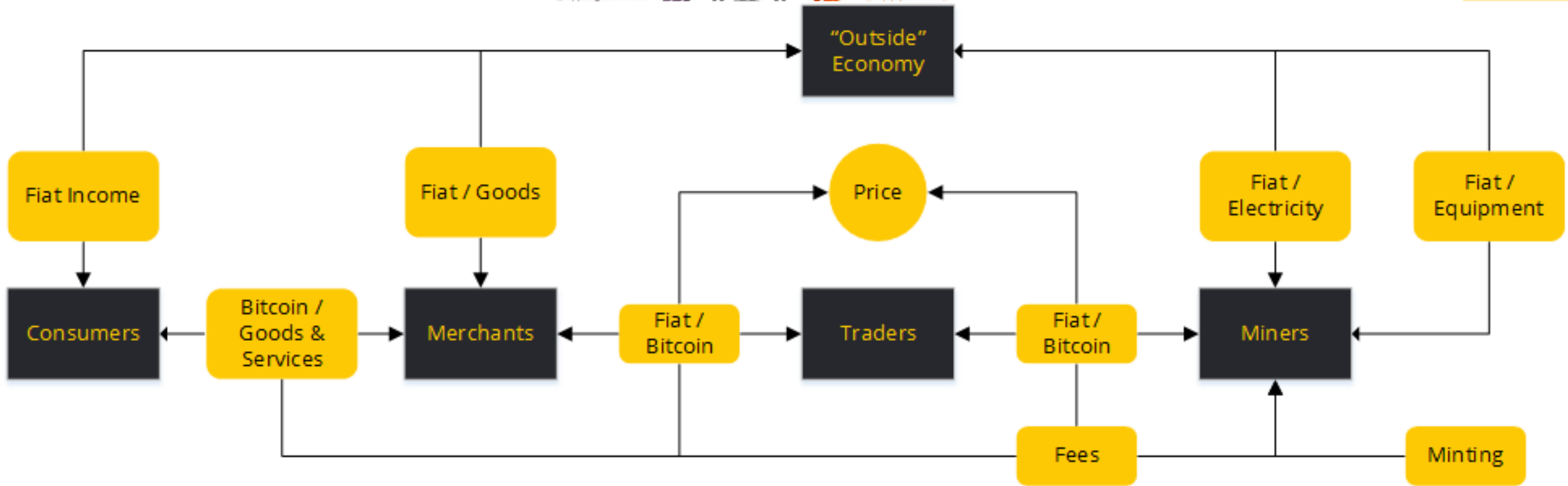
Cold Wallet Failure

Block Chain Failure

Price Volatility

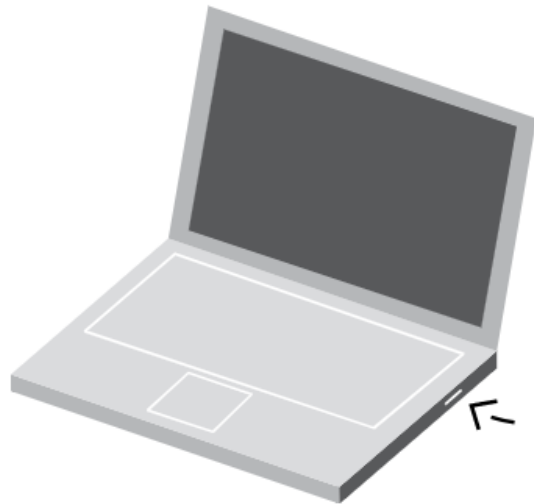
Liquidity Risk

No Centralized Support



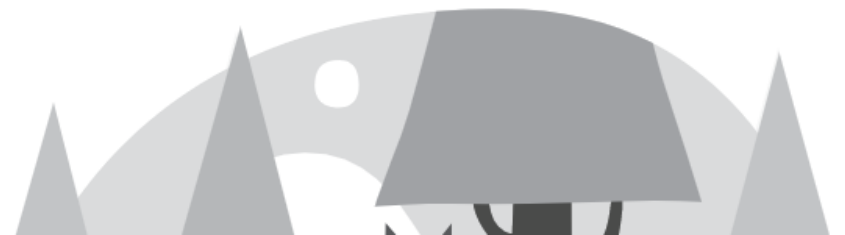
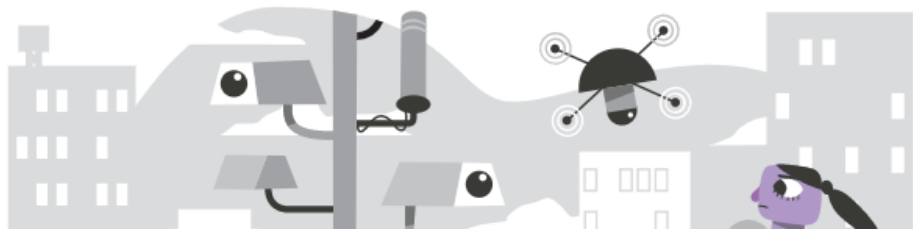


# Tails

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## Tails

is a portable operating system that protects against surveillance and censorship.







**Full Bitcoin Node**



**Lightning Wallet**



**Simple UI**  
Web Interface



**Tor**



**Bitcoin Explorer**



**Electrum Server**  
BTC Light Wallet  
Server



**Ride the Lightning**  
Lightning Wallet



**Indmanage**  
Lightning Utility



**Bitcoin CLI**



**QuickSync**  
Quickly sync Bitcoin  
blockchain



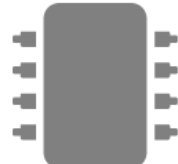
**LND Connect**  
Wallet QR Codes



**LN Channel Backup**



**VPN**  
Secure Remote Access



**Dedicated Hardware**  
Keeps you connected!



**Software Updates**



**And more!**

GE) \$ 0.207914

 Bitcoin (BTC) \$ 55,939.94

 Ethereum (ETH) \$ 4,200.25

 Binance Coin (BNB) \$ 609.25

 Tether (USDT) \$ 1.00

 Solana

# Biggest rugpull in crypto history? Squid Game rugpull from \$2856 to \$0.0008 in 10 minutes



BY SARVOTTAM MISHRA – NOVEMBER 1, 2021  NO COMMENTS  3 MINS READ

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# HOW TO AVOID RUG PULLS?





# Summary & QA

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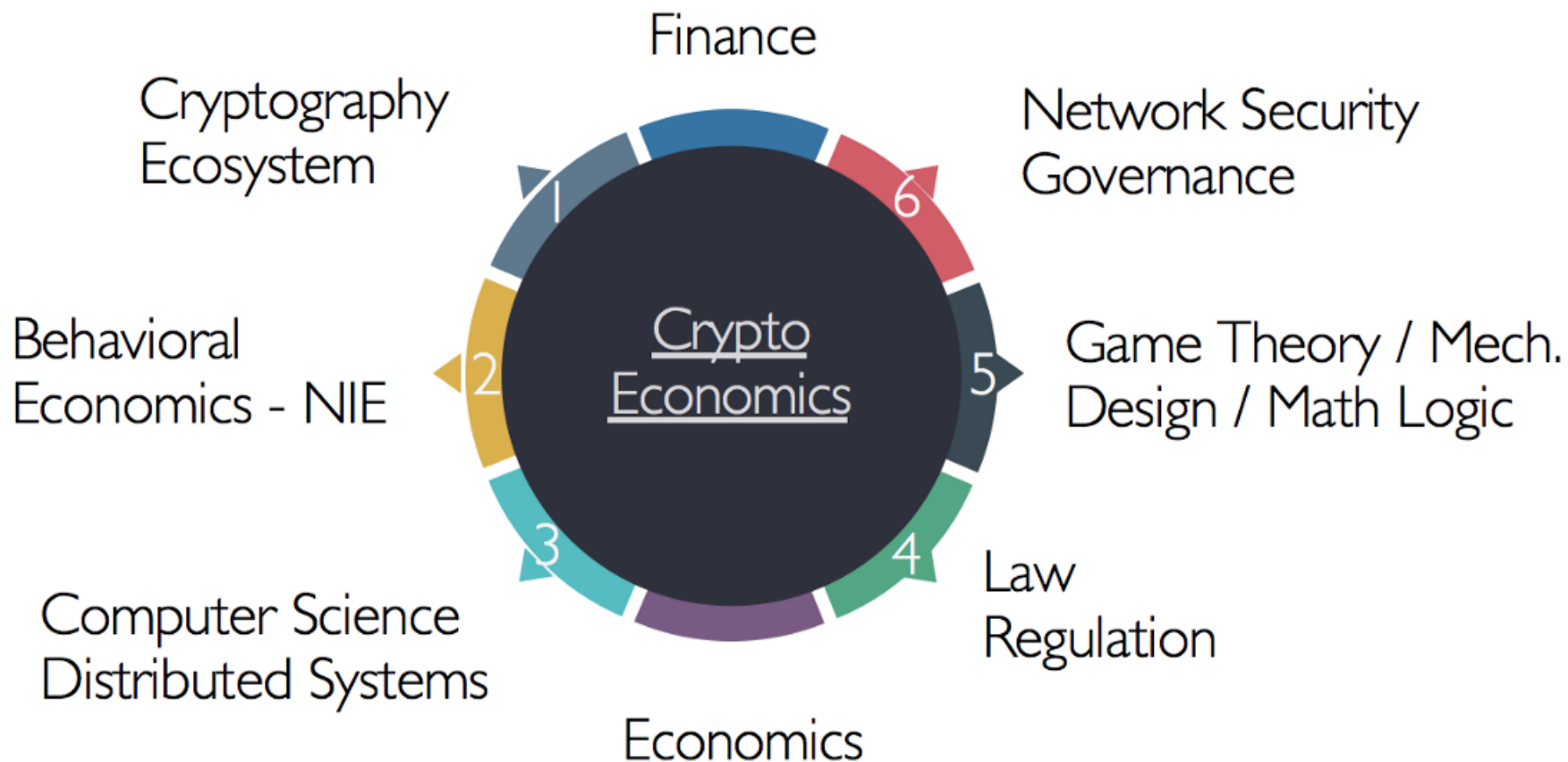
# How to research risk and reward of crypto currencies

---

Global, Decentralized and Unstoppable.



# Crypto Economics - Convergence of Disciplines





# Technical Analysis

- “Technical” refers to analyzing the past trading activity and price variations of an asset, which according to technical analysts, might be useful predictors of future price movements of an asset. It can be used for any asset with historical trading data, which means stocks, futures, commodities, currencies and cryptocurrencies.

# Technical Analysis



# Technical Analysis







# What kind of trader are you?

- Scalpers – Trade time is 10 minutes to 30 minutes
- Day trader – Buying and selling within the same day
- Swing trader – Buying and holding the trade for a few days to two weeks
- Positional trader – Buying and holding the trade for a few weeks to 6 months to 12 months
- Investors – Buying and holding for more than one year

# Bull market vs. bear market

	 <b>Bull market</b>	 <b>Bear market</b>
<b>Accumulation or distribution phase</b>	Marked by <b>negative</b> sentiments	Marked by <b>positive</b> sentiments
<b>Public participation phase</b>	The wider market participants start buying	The wider market participants start selling
<b>Excess/panic phase</b>	Thoughtful market participants anticipate a bearish trend and start selling	Thoughtful market participants anticipate a bullish trend and start buying

# Key Metrics

- Price
- Change
- Low/High
- Trading Volume
- Market Rank
- Market Cap
- Fully Diluted Market Cap

<b>Polygon Price</b>	<b>\$2.25</b>
Price Change <small>24h</small>	<b>\$0.0337</b> -1.52%
24h Low / 24h High	<b>\$2.16 / \$2.27</b>
Trading Volume <small>24h</small>	<b>\$1,859,448,795.80</b> -28.60%
Volume / Market Cap	<b>0.1173</b>
Market Dominance	<b>0.71%</b>
Market Rank	<b>#14</b>
Total Value Locked (TVL)	<b>\$8,368,519,799</b>
Polygon Market Cap	
Market Cap	<b>\$15,849,215,775.80</b> -1.72%
Fully Diluted Market Cap	<b>\$22,380,577,975.61</b> -1.72%



# Polygon to USD Chart



Price Market Cap TradingView History

1D 7D 1M 3M 1Y YTD ALL LOG



USD  BTC

Want more data? [Check out our API](#)

## Polygon to USD Chart



Price Market Cap TradingView History

1D 7D 1M 3M 1Y YTD ALL  LOG



USD  BTC

Want more data? [Check out our API](#)



# Intro to Decentralized Finance?

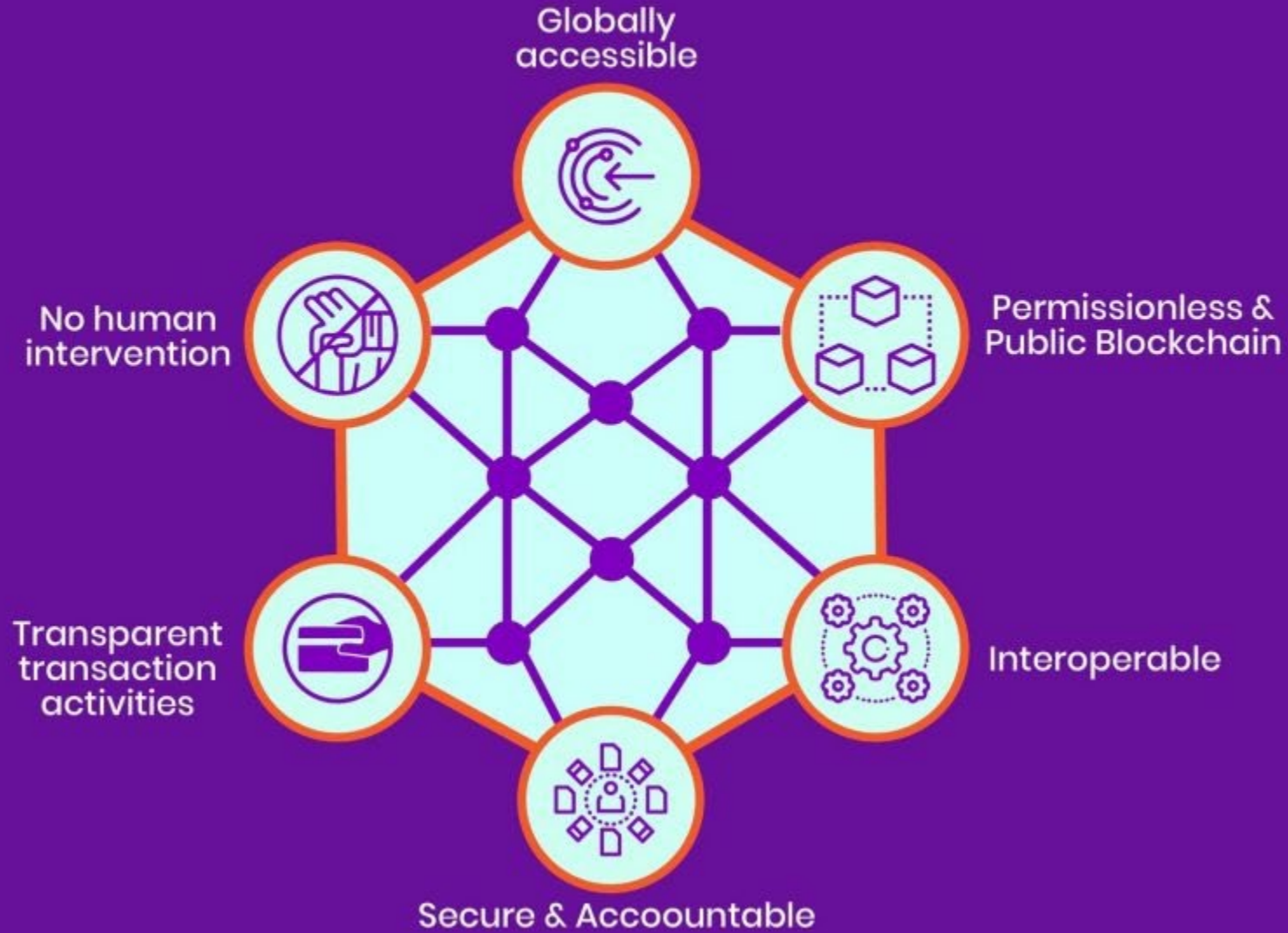
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Global, Decentralized and Unstoppable.

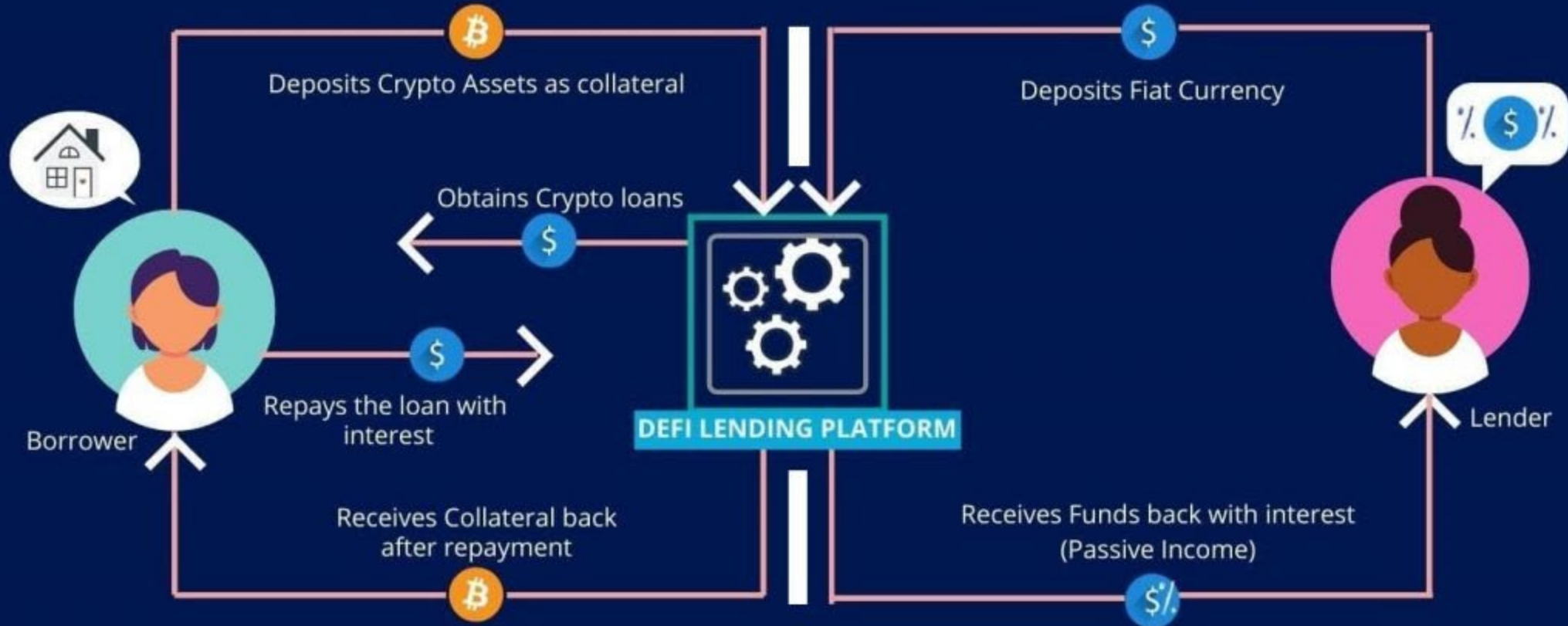




# Benefits Of Decentralized finance (DeFi)




# DEFI LENDING AND BORROWING WORKS




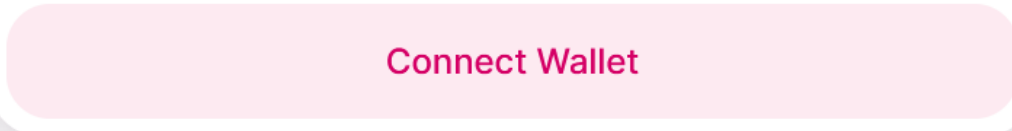


### Swap

0.0  ETH ▾

↓

0.0 





## Connect a wallet



By connecting a wallet, you agree to Uniswap Labs' [Terms of Service](#) and acknowledge that you have read and understand the Uniswap [Protocol Disclaimer](#).

MetaMask



WalletConnect



Coinbase Wallet

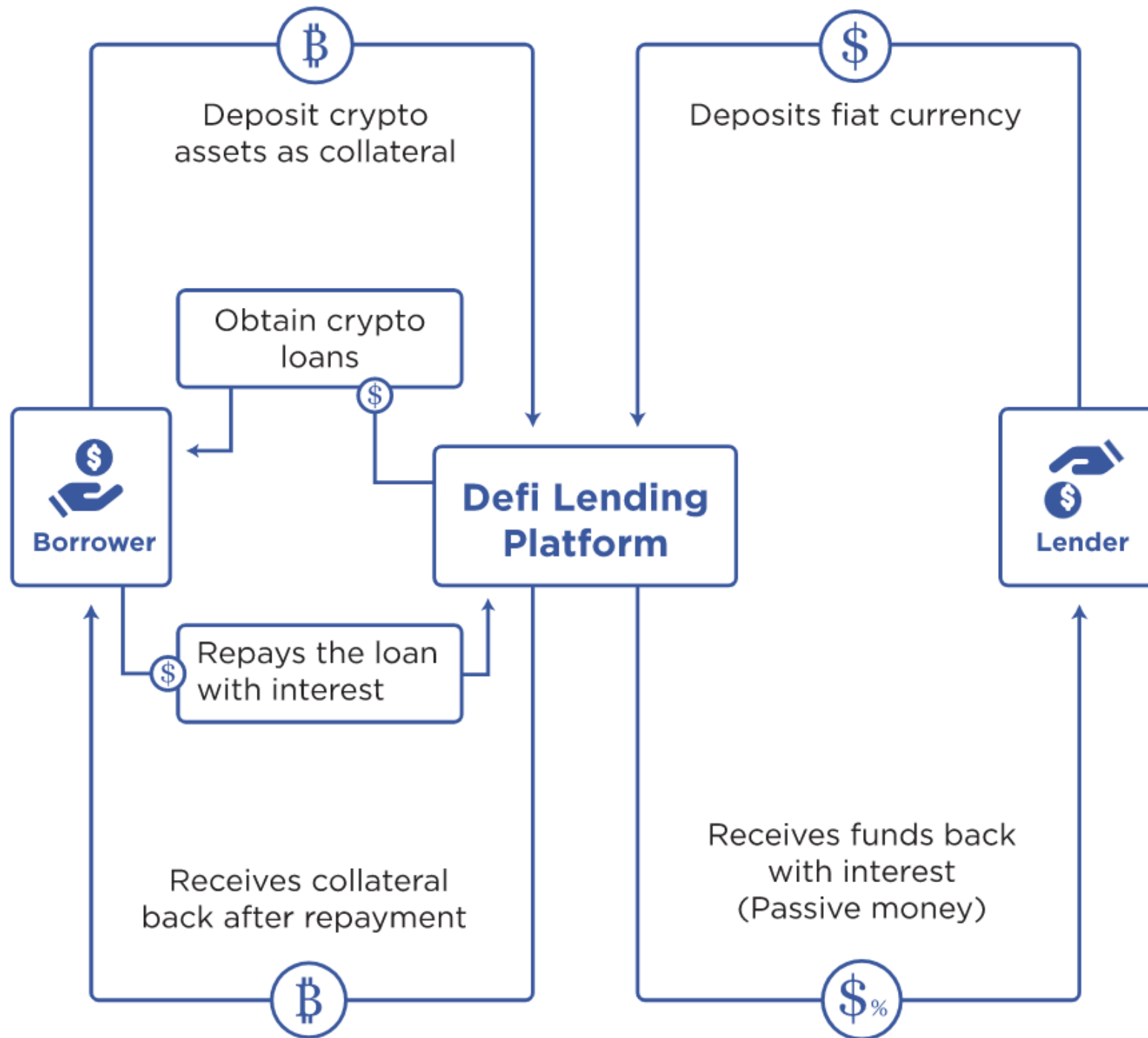


Fortmatic



Portis

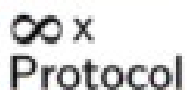




# Ethereum's DeFi



## Payments



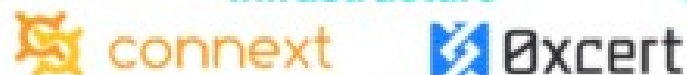
### OPEN PLATFORM



## Custodial Services



## Infrastructure



## Exchanges & Liquidity



## Investing



## KYC & Identity



## Derivatives



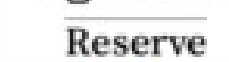
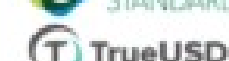
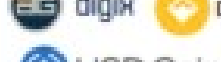
## Marketplaces



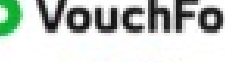
## Prediction Markets



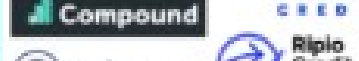
## Stablecoins



## Insurance



## Credit & Lending







# Summary & QA

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# Intro to Non-Fungible Tokens NFTs

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# What is an NFT?

- A non-fungible token is a unique and non-interchangeable unit of data stored on a blockchain, a form of digital ledger. NFTs can be associated with reproducible digital files such as photos, videos, and audio.



YOU ARE READING

Sotheby's sold a bunch of "Bored Ape" NFTs for \$24.4 million in an online auction

# Sotheby's sold a bunch of "Bored Ape" NFTs for \$24.4 million in an online auction



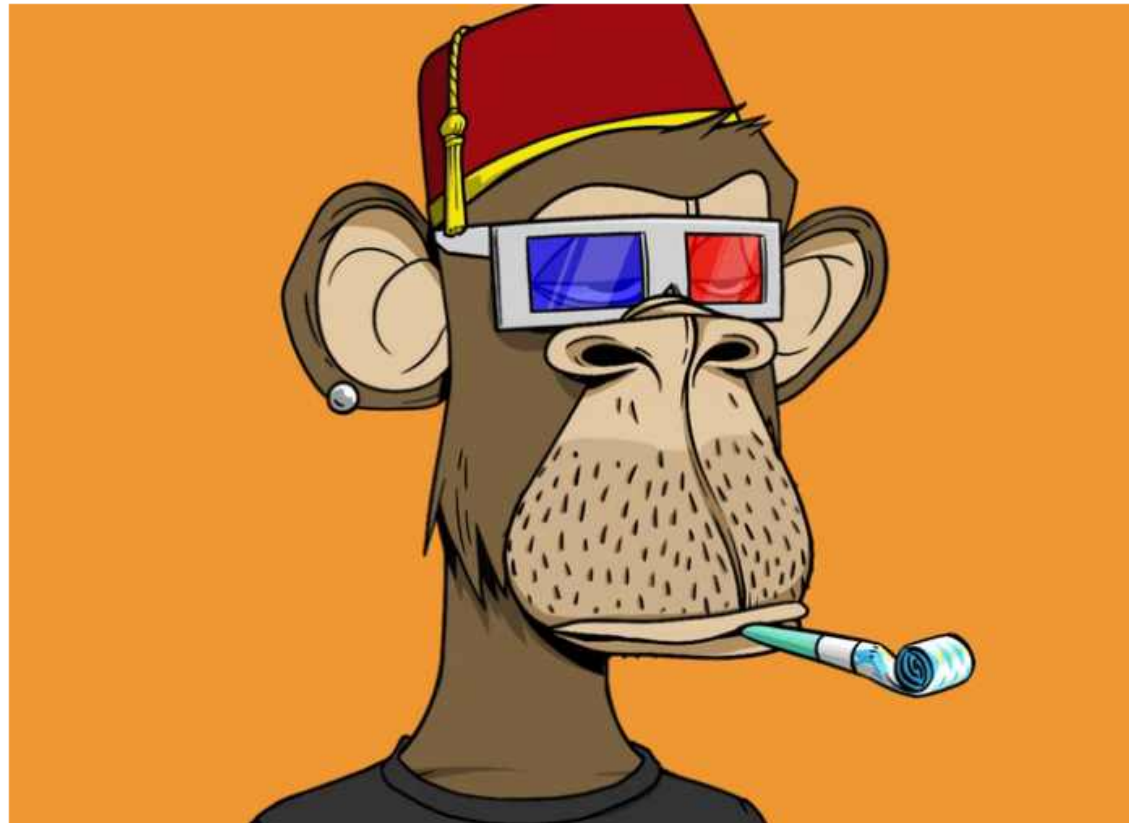
Daniel Levi POSTED ON SEPTEMBER 9, 2021

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In March, Mike Winkelmann, the digital artist known as Beeple, made history after a [single piece of his](#)

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**Status** 

Buy Now

On Auction

New

Has Offers

**Price** 

\$ United States Dollar (USD) 

Min

to

Max

Apply



Mech Mermaids Network  
**MechMermaidsNetwork #1555**

Price  
◆ **0.049**  
⌚ a day left

 0



Crypto Drogen  
**CryptoDrogen #2172**

Price  
◆ **0.069**  
⌚ a day left

 1





Dogecoin (DOGE) \$ 0.207844



Bitcoin (BTC) \$ 55,917.85



Ethereum (ETH) \$ 4,198.19



Binance



# Ethereum Gas Fees Have Risen 2,300% Since June



BY SARVOTTAM MISHRA – OCTOBER 30, 2021

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# Discover, collect, and sell extraordinary NFTs

OpenSea is the world's first and largest NFT marketplace

[Explore](#)[Create](#)

**Hong Kong Spring**  
Noealzii



# Summary & QA

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# Best Practices and Conclusion

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# Best practices for the usage of digital assets



## Do's

-  Own your keys
-  Use a hardware wallet
-  Have a backup strategy
-  Do your own research
-  Use 2FA
-  Use a password manager
-  Double check transaction information
-  Protocol your trading (Tax)
-  Protect your privacy
-  HODL

## Don'ts

-  Brag about holdings
-  Store your backup unencrypted online
-  Fall for scams
-  Install remote access software
-  Follow the mass media hype
-  Search for the next Bitcoin
-  Invest more than you can lose



Oktober  
2019

# Self custody wallets

Graphic by  
Hodl Helper 

## Hardware



Hardware wallets are the most secure option to store digital assets.



Oktober  
2019

# Self custody wallets

Graphic by  
Hodl Helper 

## Hardware



Hardware wallets are the most secure option to store digital assets.

# Blockchain characteristics



Distributed storage  
Tamper proof & immutability  
Transparent  
Consensus based

## Permissionless

Open  
public  
borderless  
neutral  
censorship resistant

## Permissioned

Regulatory compliant  
clear governance structure  
semi-decentralized

The characteristics of permissioned and permissionless blockchains

# TYPES OF WALLETS

Self-custody

Software



Hardware



Custodial  
(Third party)



Don't store large investment amounts on custodial wallet solutions! You might lose it!



# Investor Sentiment During Market Cycles

Market Peak (Risk)



Market Trough (Opportunity)



# Space mining: the new goldrush

[Two issues free when you subscribe to BBC Science Focus Magazine](#)

While space mining is still a decade or so off, next year the industry is ramping up their efforts

# SpaceX wins the \$117 million launch contract to explore Psyche's heavy metal asteroid



Jonathan Shieber @jshieber / 4:57 PM EST • February 28, 2020

Comment





# Greek-Named Asteroid Psyche Has Enough Gold to Make Us All Billionaires

By **Patricia Claus** June 7, 2021



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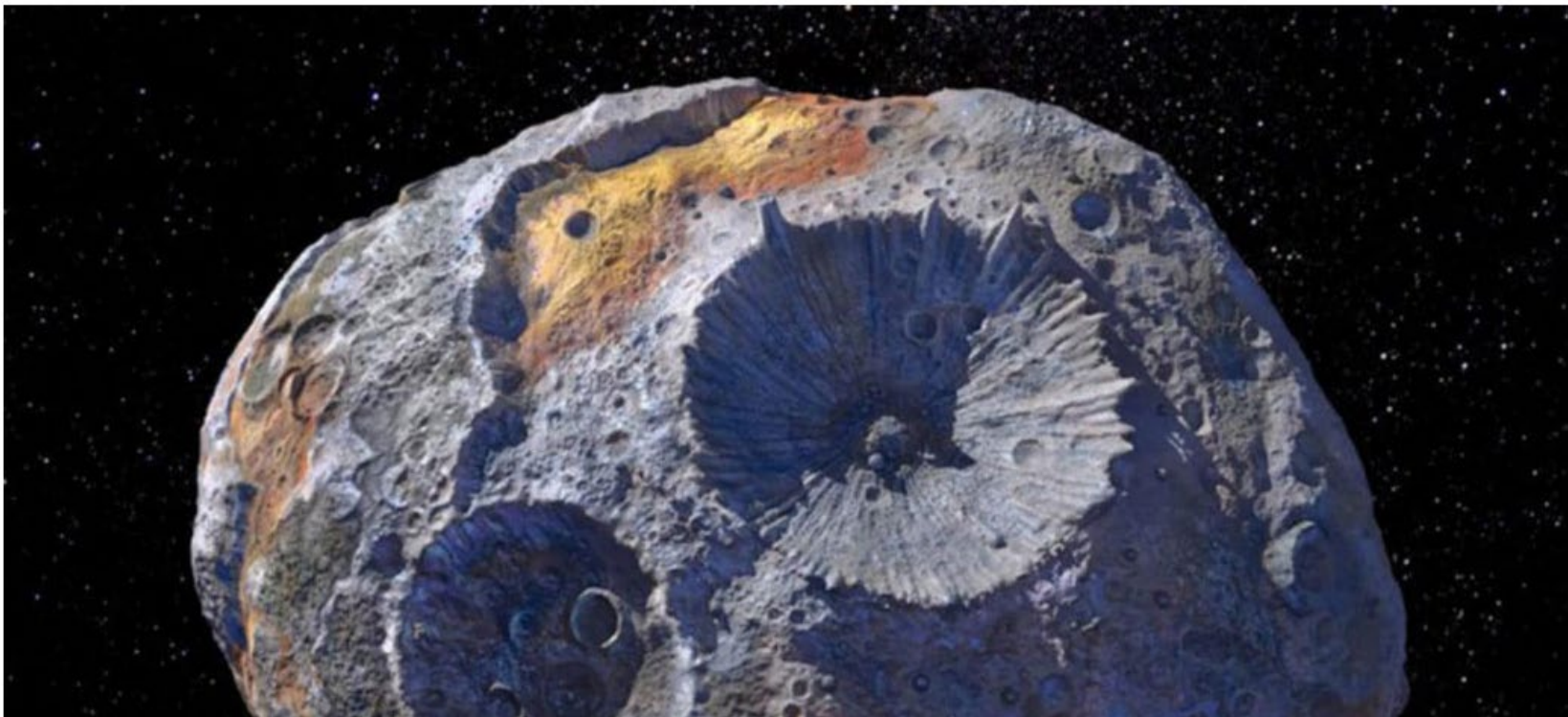
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# What price would you sell your Bitcoin?

 WILLIAM SUBERG

SEP 27, 2019

## When to Sell Bitcoin? 'Never' — Mark Yusko Says BTC Like Amazon Stock

Defending the cryptocurrency, the Morgan Creek founder said that like Amazon, Bitcoin is only a buy.

14788 Total views

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1:30





Dec 13, 2020, 05:00pm EST | 49,319 views

# Aren't You Glad You Kept Your Bitcoin? Don't Sell It.



**Kenneth Rapoza** Senior Contributor ⓘ ⊕

Markets



*I write about business and investing in emerging markets.*






Regulation  
is coming  
soon!!




New posts

 **Ripple**  
201,537 followers  
2d • 

At Ripple, we believe in advancing innovation while enhancing consumer and market protections to [#cryptocurrency](#) investors – applying existing US frameworks is key to this goal. [...see more](#)



**Ripple's top [lawyer](#) says the SEC has declared war on crypto**  
protocol.com • 10 min read

   Sean Brizendine and 491 others 31 comments

A graphic featuring ten stylized portraits of men, arranged in two rows of five. The portraits are rendered in a high-contrast, graphic style with a color palette of purple, blue, and yellow. The background is dark with some abstract lines. The text 'Crypto 100' is centered over the portraits.

# Crypto 100

THE 100 MOST INFLUENTIAL PEOPLE IN CRYPTO

# Summary & QA

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