

ENCRYPTION DEWEAPONIZED

But, not without a fight.

1991 – Phil Zimmerman and Hal Finney create PGP, encryption that uses private keys to protect information.

The NSA wants access. PGP says no; their leaders come under federal investigation.

1993 - Clinton drops the federal investigation into PGP following the release of PGP's code to the world (books on planes)

1996 – Encryption, some of it, is moved off the munitions list.

<u>Cryptography = art/science of encryption, of concealing messages</u>

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CYPHERPUNKS MANIFESTO

"We are defending our privacy with

- -cryptography,
- •with anonymous mail forwarding systems,
- •with **digital signatures**, and with
- electronic money...

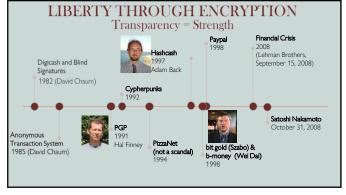
We cannot expect governments, corporations, or other large, faceless organizations to grant us privacy out of their beneficence...

We must defend our privacy." - Eric Hughes

EFF logo plain, 6 August 2013, Author EFF, https://commons.wikimedia.org/wiki/File:EFF-logo-plain.svg CryptoPartyHandbook: cover, https://www.cryptoparty.in/learn/handbook

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WHAT IS BITCOIN?

A system with special characteristics that allows transactions.

In the same way that your computer is required to run an application, the blockchain is required to use bitcoin.

From: Satoshi Nakamoto <satoshi <at> vistomail.com> Subject: Bitcoin P2P o-cash paper Newsgroups: gmane.comp.encryption.general Date: Friday 31st October 2008 18:10:00 UTC (over 8 years ago)

I've been working on a new electronic cash system that's fully peer-to-peer, with no trusted third party.

The paper is available at: http://www.bitcoin.org/bitcoin.pdf

The main properties:
Double-spending is prevented with a peer-to-peer network.
No mint or other trusted parties.
Participants can be anonymous.
New coins are made from Hashcash style proof-of-work.
The proof-of-work for new coin generation also powers the network to prevent double-spending.

Bitcoin: A Peer-to-Peer Electronic Cash System

Abstract. A purely peer-to-peer version of electronic cash would allow online payments to be sent directly from one party to another without the burdens of going through a financial institution. Digital signatures provide part of the solution, but the main

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NAKAMOTO AND FRIENDS



Hal Finney (PGP)



Wei Dai (b-money & Crypto++)



Nick Szabo (bit gold)



Adam Back (hash cash & DoS prevention)

Hall Finney Oblituary - The Santa Barbara Independent, https://lwww.independent.com/oblist/2014/09/02/hal-f-Nick Szabo, Nick Szabo, Global Financial Assets, on bitcoin, blockchain and the benefits of smart contracts, h Adam Baid, Adam Back's home page (cypherspaceorg), https://www.cypherspaceorg/adam/

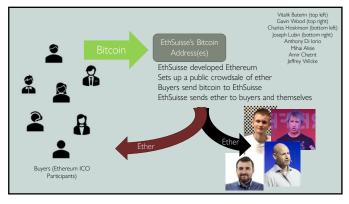
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FROM MY COLD, DEAD HANDS.

Privacy may be 4th amendment, but a right to encryption is a 2nd amendment right.

Aug 2015, rt.org/detail/224281/key-in-fist





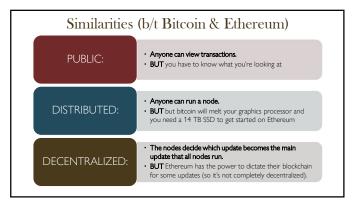
The Merge: What does PoS mean for Ethereum? *-over simplified Who has extra ether to park at an address? (32 eth at a time) (1) 2022 GreenWeb, LLC *-over simplified What does it mean? - PoS = Proof of Stake - Changes from competition to votes* How does it work? - Stake your ether. - Never move it. - Earn interest.

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"Some [of these tokens] like bitcoin, and that's the only one I'm gonna say...my predecessors and others have said, they're a commodity...
the investing public is hoping for a return...
many of these crypto financial assets have the key attributes of a security."

GARY GENSLER, SEC CHAIRMAN

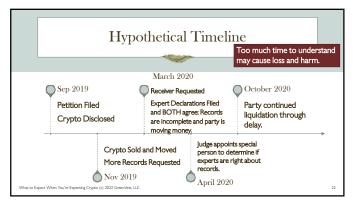
https://www.msn.com/en-us/money/markets/gensler-labels-bitcoin-a-e2-80-98commodity-e2-80-99-as-crypto-prices-stabilize/ar-AAVVhdjifrom/Maestro=true



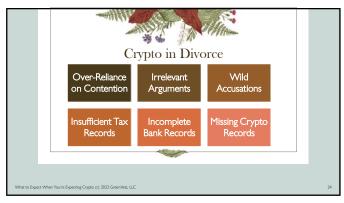
Differences **Bitcoin Ethereum** • Was pre-mined, then mined, now staked • Bitcoin must be mined • Bitcoin became well-known b/c of • Ethereum became well-known through marketing its use on the darknet • Additional wallet addresses **can** Additional addresses are less discernible through transaction be discerned through transaction analysis • Bitcoin addresses store a number • Ethereum addresses can store of bitcoins and a tiny amount of executable code. Create new tokens on ethereum based on whatever rules they make data-no code

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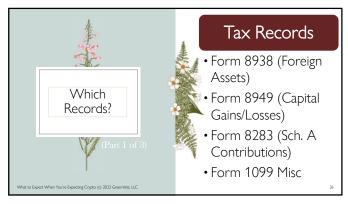




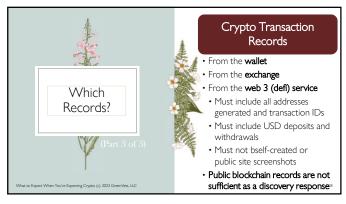






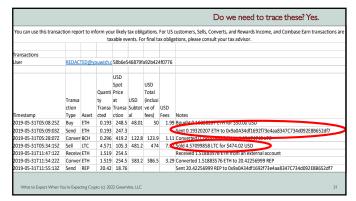


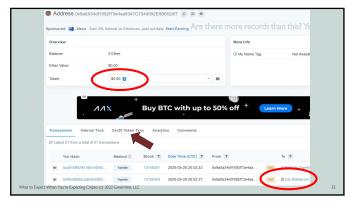


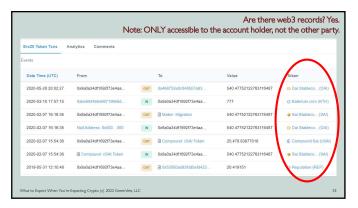


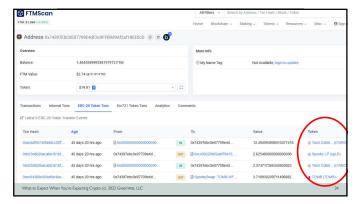
Authoritative Source: the Internet Blockchain: noun, almost all transactions related to crypto addresses • All addresses used in wallets (software, hardware, website, etc.) • All transaction history from an exchange including recipient addresses for crypto withdrawal transactions • A list of all addresses generated for use in transactions

CHECKCARD 03/01 COINBASE CHEAPSIDE		Is the	Is there a crypto account? Yes.		
	Θ	[P]	-350.00	2,208.04	
CHECKCARD 03/01 COINBASE CHEAPSIDE	Θ	[P]	-1.99	2,558.04	
CHECKCARD 03/01 COINBASE CHEAPSIDE	Θ	[P]	-1.94	2,560.03	
CHECKCARD 03/01 COINBASE CHEAPSIDE	Θ	[2]	-1.00	2,561.97	
CHECKCARD 03/01 HUGS & DONUTS HOUSTON TX	Θ	[P]	-18.01	2,562.97	
CHECKCARD REVERSAL 03/01 COINBASE CHEAPSIDE	•	[P]	1.00	2,580.98	

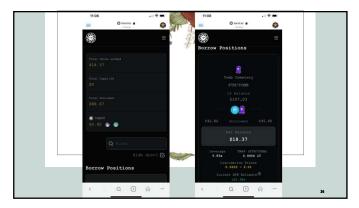






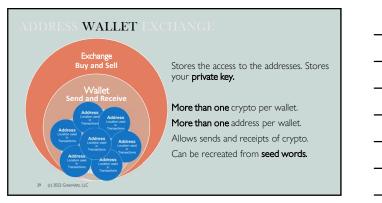






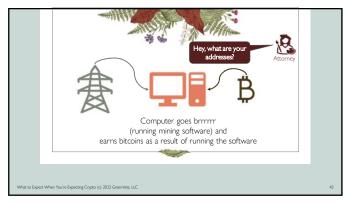


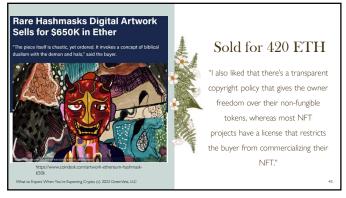


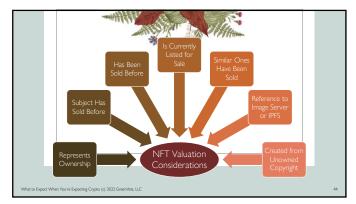


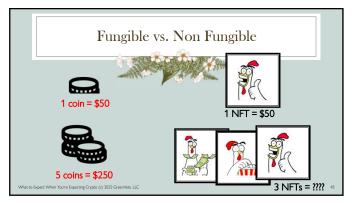




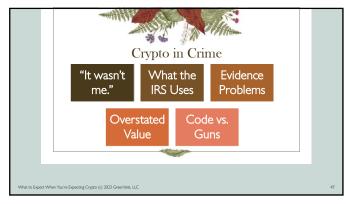


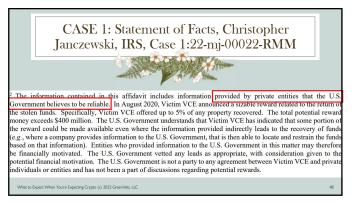


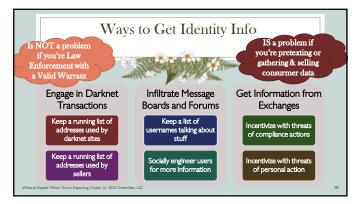




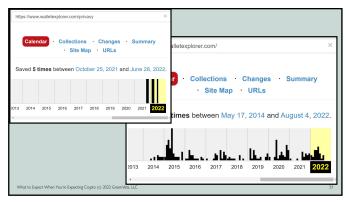


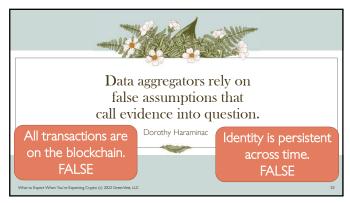


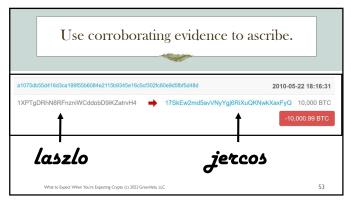


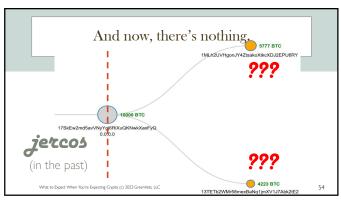


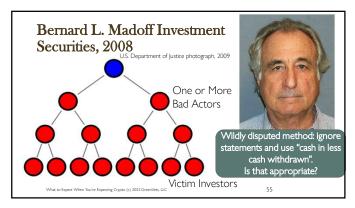




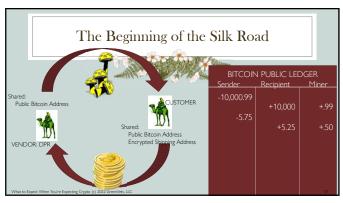


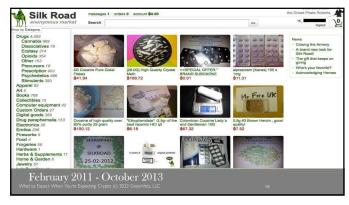


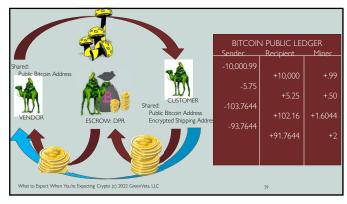












So many Amicus Briefs • Search and Seizure Issues • First Amendment Rights Violations • Warrantless Inspections • Third Party Doctrine re: Internet Use what to Eppet When You're Expecting Crypto (c) 2022 GreenMet, LLC • Search and Seizure Issues • Right to Jury Trial Violation • Judicial Factfinding Issues • Unusually Harsh Sentence • Unlimited Government Discretion Discretion



Source Case Files

- Case 1: United States of America v. Ilya Lichtenstein and Heather Rhiannon Morgan, Case: 1:22-mj-00022, U.S. District Court for the District of Columbia
- Case 2.0: United States of America v. Trendon T. Shavers a/k/a "pirateat40", Southern District of New York; Securities Fraud and Wire Fraud
 Case 2.1: Securities and Exchange Commission against Trendon T. Shavers and Bitcoin Savings and Trust, Eastern District of Texas, Sherman Division
- Case 3: United States of America v. Ross William Ulbricht, a/k/a "Dread Pirate Roberts", a/k/a "DPR", a/k/a "Silk Road", Case 1:14-cr-00068-KBF, Southern District of New York
- Case 4: In the matter of Larry Dean Harmon d/b/a Helix, Akron, Ohio, Number 2020-2, US FinCEN, Department of the Treasury

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