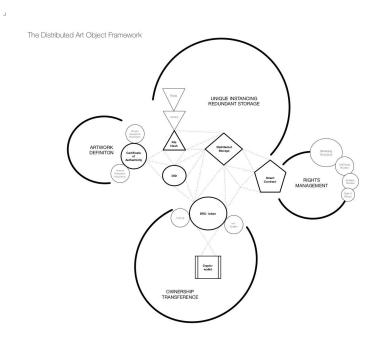
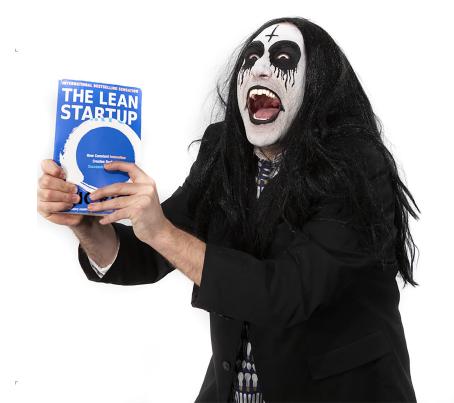
P2P tools for Cooperation

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Who are you?

Brief intros

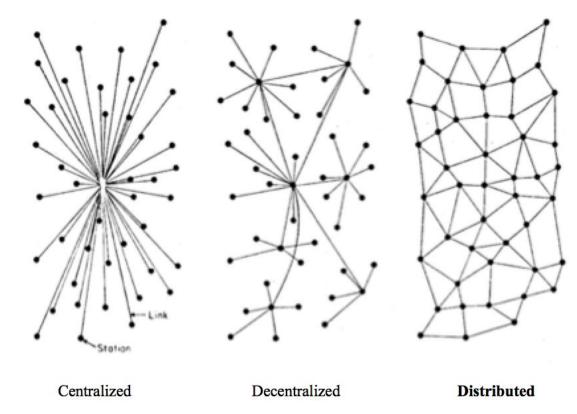
What brings you here?

Do you have any background in blockchain or web3?





Key Concepts



Radical Media Ecology 1970 +

Democratic

Community driven

Non-commercial

Open Access

Open Source

Shared knowledge

Read/Write



Radical Media Ecology cont'd

Protocols for an open internet:

Open Source / FLOSS Free/Libre - i.e. Linux, Unix

W3C - HTTP HTML CSS Javascript PHP Apache, POP3, SMPTE

BBS, Usenet, Email, IRC, RSS



Web 2 and siloization

"Apps"

Closed device ecosystems

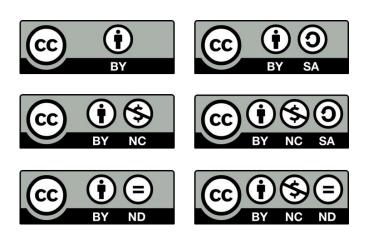
Social Media services + the network effect

Net Neutrality (Rise of the ISPS)

Infowars



"Information wants to be free"





Platform Economics

Blockchain

Next frontier in network politics

"Disrupts" primary lending, banking and national control over currency

Smart Contracts





Smart Contracts are written as code and committed to the blockchain. The code and conditions in the contract are publicly available on the ledger.



When an event outlined in the contract is triggered, like an expiration date or an asset's target price is reached-- the code executes.





Regulators can watch contract activity on the blockchain to understand the market while still maintaining the privacy of individual actors.

Web3 and P2P

New protocols for the decentralized web

Distributed computation

Non-centralized ways of serving web pages, applications (dApps)

Identity management

Governance

Rchain

Cooperative

Founded by Greg "Lucius" Meredith

CASPER correct by construction

Faster distributed processing

Object Capabilities - Rholang



Jitsi

https://jitsi.org

Video conferencing based on open source tools

End to end encrypted

Works with webRTC (p2p)



Keybase

Encrypted Communities

Identity Management

Chat Services

"Distributed" storage

Wallet / Currency (Lumens XRM)

Just purchased by Zoom



Interplanetary File System

By Protocol Labs

Distributed File Storage

Incentivizes partipication with a "Proof of Storage Schema"

Issues filecoin tradeable on most exchanges

Can peg to cloud servers for faster more reliable service



HoloChain

Decentralized computation

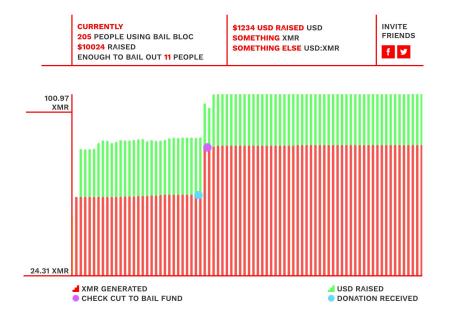
Doesn't rely on total network consensus

Mutual Credit clearing



bailbloc

https://bailbloc.thenewinquiry.com/



Circles UBI

https://handbook.joincircles.net/about/w hitepaper.html

Mutual Credit based on social graph and networks of "trust"

Users are issued more of their own currency on an ongoing basis (UBI)



Scuttlebutt

Distributed chat server

P2p and designed for offline use

"Gossip Protocol"



Programmatic Currency

Tokens can be made to behave in different ways.

Inflationary

Deflationary

Unique (i.e. representing a unique asset)

Sovereign (self issued)

Use Value

Curitiba, Brazil and sovereign liquidity



Benefits of Digital Currency

Activating locally depressed economies

de-spatializes economy

Creates liquidity - capacity to represent the value they contribute

Borderless - cheaper to send money

Secure - people can't steal crypto

Negative Implications of Digital Currencies

Potentially undermines democratic rule

"Shorts" national governments that issue fiat

Energy intensive

Fascist potential - can't erase dept (bitcoin)

Wealth aggregation - pre-existing economic models

Key Blockchain Concepts

Computational Trust

Sovereignity

Proof of work

Proof of stake

Object Capabilities

Tokenomics

ERC tokens

Ethereum

Smart Contracts

Name some decentralized systems

P2P systems

Napster

Bittorrent

webRTC

DAAT - Beakerweb

Scuttlebutt

IPFS - Interplanetary File System

What are incentives for participation?

Market based?

Altruistic?

Mutuality?

Meritocracy?

Questions

What is cooperation and why would we need technology to do it?

Why start a cooperative?

Some of the problems

Reifying wealth accumulation/stratification

Teired levels of access

Network effect as wealth tax

Energy inefficient

Quadratic Voting

Applies market principles to democratic governance

Each voter is given an allotment of tokens which can be spent accordingly on votes. Each additional vote is a radical of the previous amount.

- 1 token equals one vote
- 3 tokens equals two votes
- 9 tokens equals three votes etc