Bay Area Dive into Holochain Meetup

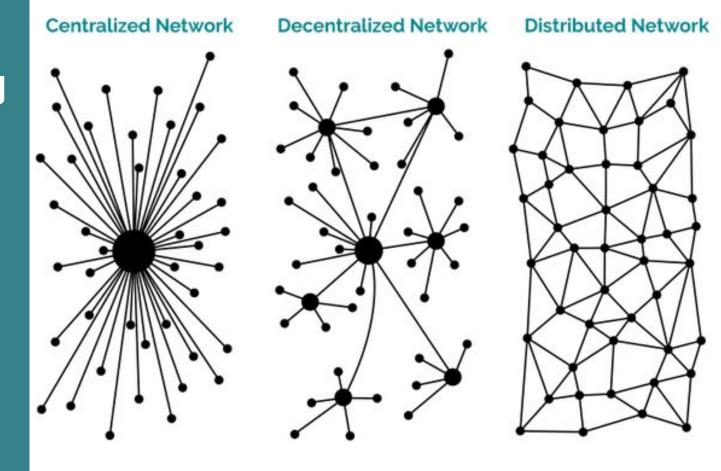


Holochain Community

We are a community of passionate humans building a distributed cloud, owned and run by users like you and me.



Issues with Centralized Systems I/II



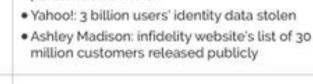
Which looks strongest and most resilient?

Issues with Centralized Systems II/II

YOU can be: **X** HACKED **X** TRACKED

On a centralized system,







sites and content

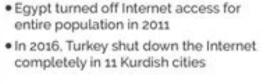
personal data stolen









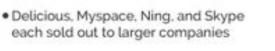


China's Great Firewall blocks a variety of

 Spain blocked more than 140 political websites in attempt to disrupt the 2017 Catalonian independence election

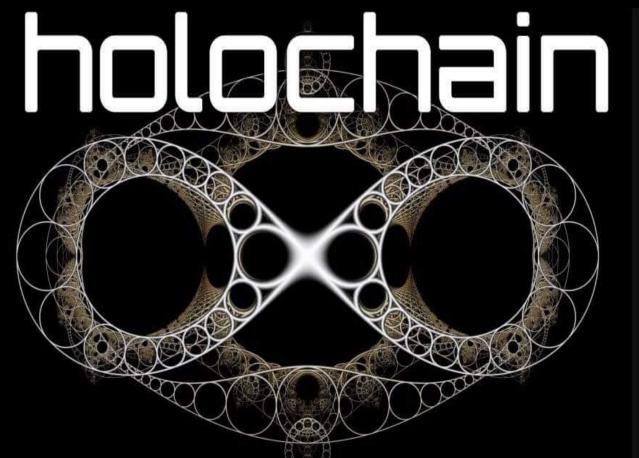
Example

Equifax: 143 million Americans' financial and





SOLD OUT

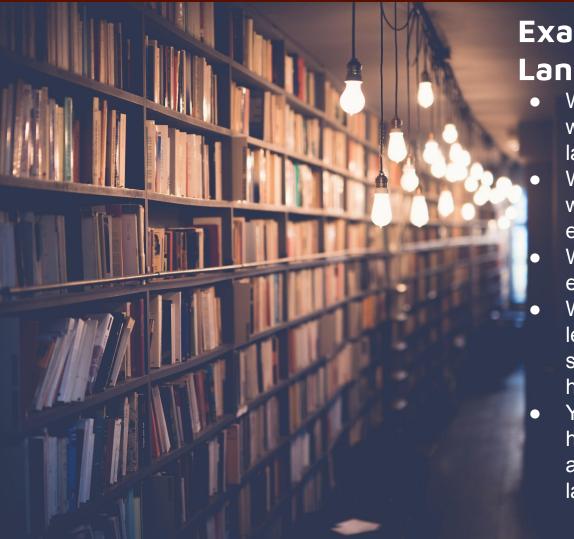


for people who find explaining blockchains to their friends and family to be too easy

Blockchain is about managing a consensus about what was "said."

Holochain is about distributing a consensus about how to "speak" [Art Brock]





Examples in Nature I/II: Language

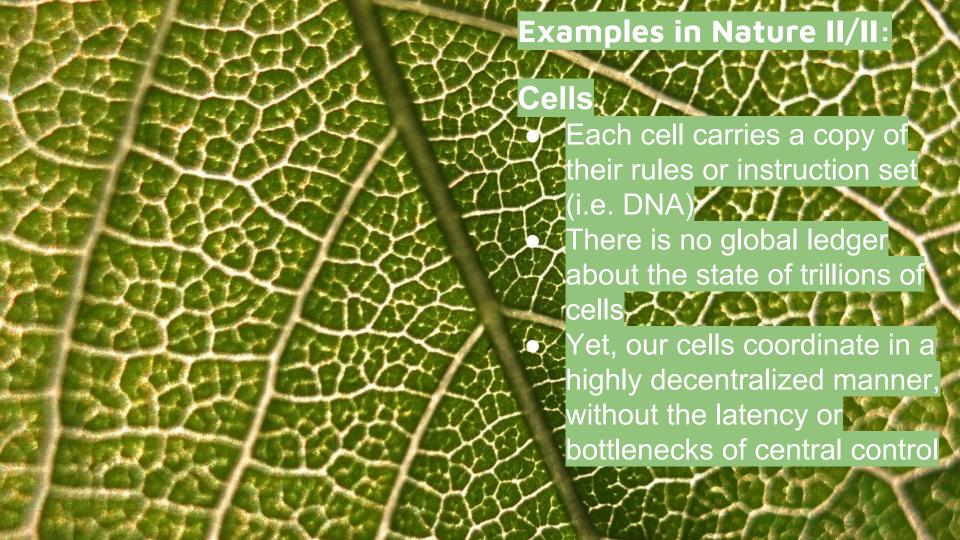
 We are a speaker of a language when we know how to use the rules of that language properly

 We don't have to know all the same words (because we can use the rules to explain unknown ones)

 We don't need to have the same experiences

 We certainly don't need some global ledger of everything that's ever been said, or require consensus about what has been said

 Yet there are infinite possibilities for how we may communicate with one another within the boundaries of this language.



Holochain	Holochain	Ethereum/ Blockchain	IPFS	Relational Databases
Decentralized architecture	•	•	•	X
Distributed app environment	•	•	Х	Х
Secure hash chains	•	•	Х	Х
DHT (Distributed hash table)	•	X	•	X
Data integrity	•	•	X	•
Custom data validations	•	X	Х	•
Scaling	•	X	•	•
Load required by client	Variable (<<100%)	100% (for full client)	Variable	0%

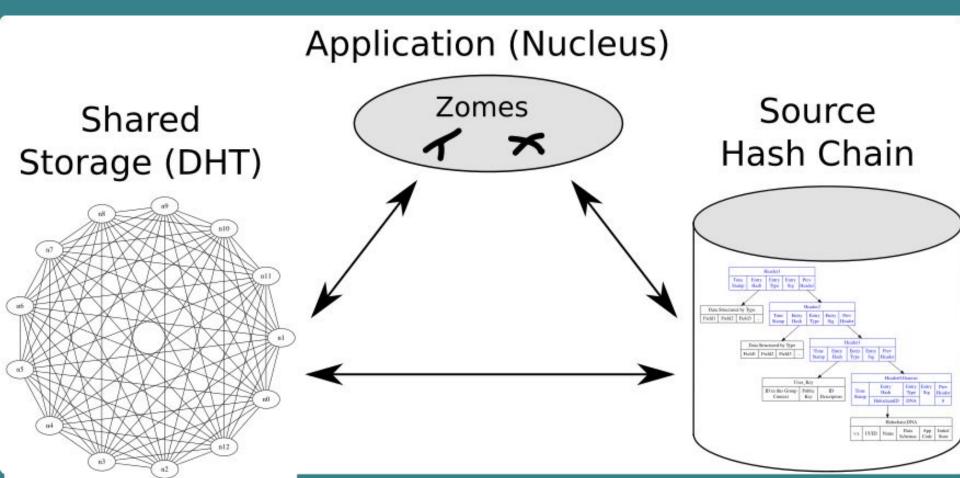
Holochain vs Blockchain

	Current System	Blockchain	Holochain
Security/Trust	Database held "securely" by third party	Distributed Global Ledger of "Indisputable Truth"	Community-set shared rules to play by + social accountability through validation
Governance	Oligarchy	"Consensus" & Smart Contracts	Pluralistic commons
Model	Dominance	Liberty	Holographic Coherance (Biomimicry)
Ontology	Corporation-centric	Token-centric	Agent-centric
Example (Jamie Klinger)	A centralized app like Snapchat offers you a small file (the app) to download that sends data through centralized servers.	A decentralized app like TenX runs on a decentralized blockchain (Ethereum).	A distributed app run locally on your personal device and coordinates through peer-to-peer connections.

Holochain vs Blockchain



Overview of Holochain Architecture



Overview of Holochain Architecture



What are Distributed Hash Tables [D.H.Ts]

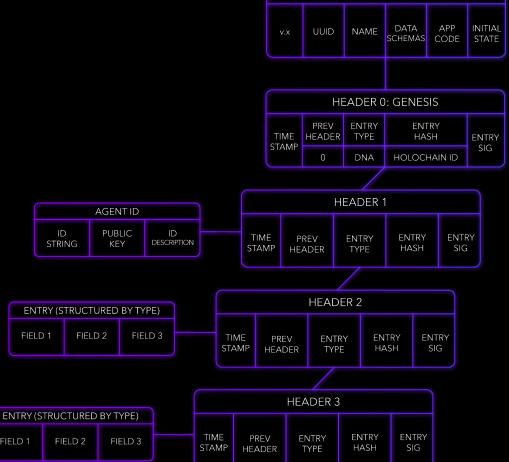
Overview of Holochain Architecture I/II

FIELD 1

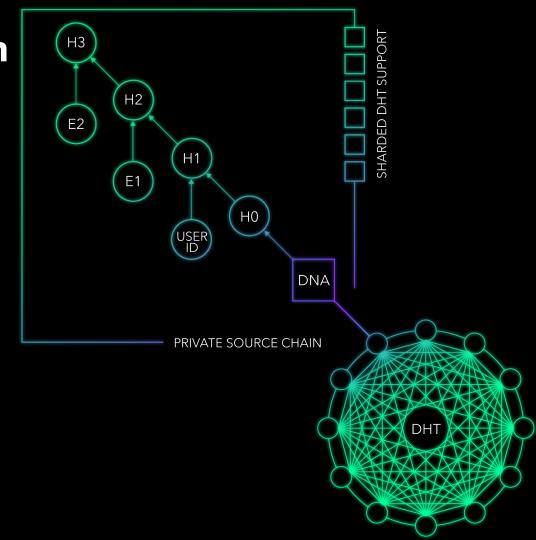
FIELD 1

PRIVATE SOURCE CHAIN

HOLOCHAIN DNA



Overview of Holochain Architecture II/II



Holochain and Holo

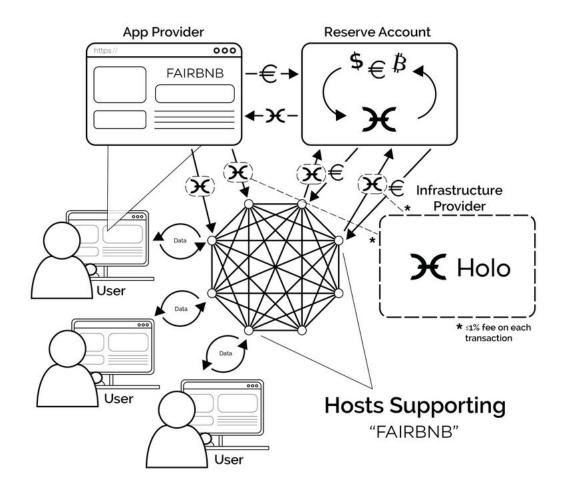
Holochain = Distributed
 Architecture

Holo

- Application on Holochain
- Enables accessibility to a Beginning User
- First Launch of a Full Scale Application
- First Launch of a Token-less,
 Mutual Credit Currency
 backed by a real asset
 (computing power)



Overview of Holo Ecosystem





What Are Holochain Applications Best Suited For?

- Governance, Collaboration, and Organizational Tools
- Social Networks and Social Media
- Platform Cooperatives
- Directly p2p sharing economy apps
- Community Resource Management (the Commons)
- Tokenless, mutual-credit cryptocurrencies and reputation systems
- Individual controlled data collection (e.g. in the Health sphere)
- Supply Chain & Open Value Networks

Timeline

Holo Ecosystem

- Crowdfunding campaign launches to distribute Holo hosting devices
- ICO raises capital for Holo, grows Holo network, and attracts developers for Holochain
- First HoloPorts ship to 600+ hosts
- First test transaction on Holo using Holo fuel
- Approaching 5,000 hosts
- 100 test transactions per hour on Holo using Holo fuel
- Test net of Holo running on 15,000 host devices
- Test net of Holo running on 30,000 host devices

Q4 2017

Q1 2018

Q2 2018

Q3 2018

Q4 2018

Holochain Core and Apps

- Holochain Alpha 0 and Alpha 1 Release
- Prototype voting and decision-making apps
- Holochain Alpha 2 Release: High level application development framework and pluggable governance
- Holochain Alpha 3 Release: Security audit and the ability to adjust DHT parameters and behavior
- Core app services available: Package manager, Identity Services, Holochain Index, Smart Caching
- Holochain Beta Release: Continued backward compatibility and more security audits
- Holochain approaching production-level sophistication





Holochain Public Mattermost Chat

https://chat.holochain.net

Holochain https://holochain.org/

Holo https://holo.host/

Resources

Developers

https://developer.holochain.org/

Github Alpha release of holochain:

bit.ly/githolochain

Currency (Current-See) Geeks

https://medium.com/@artbrock