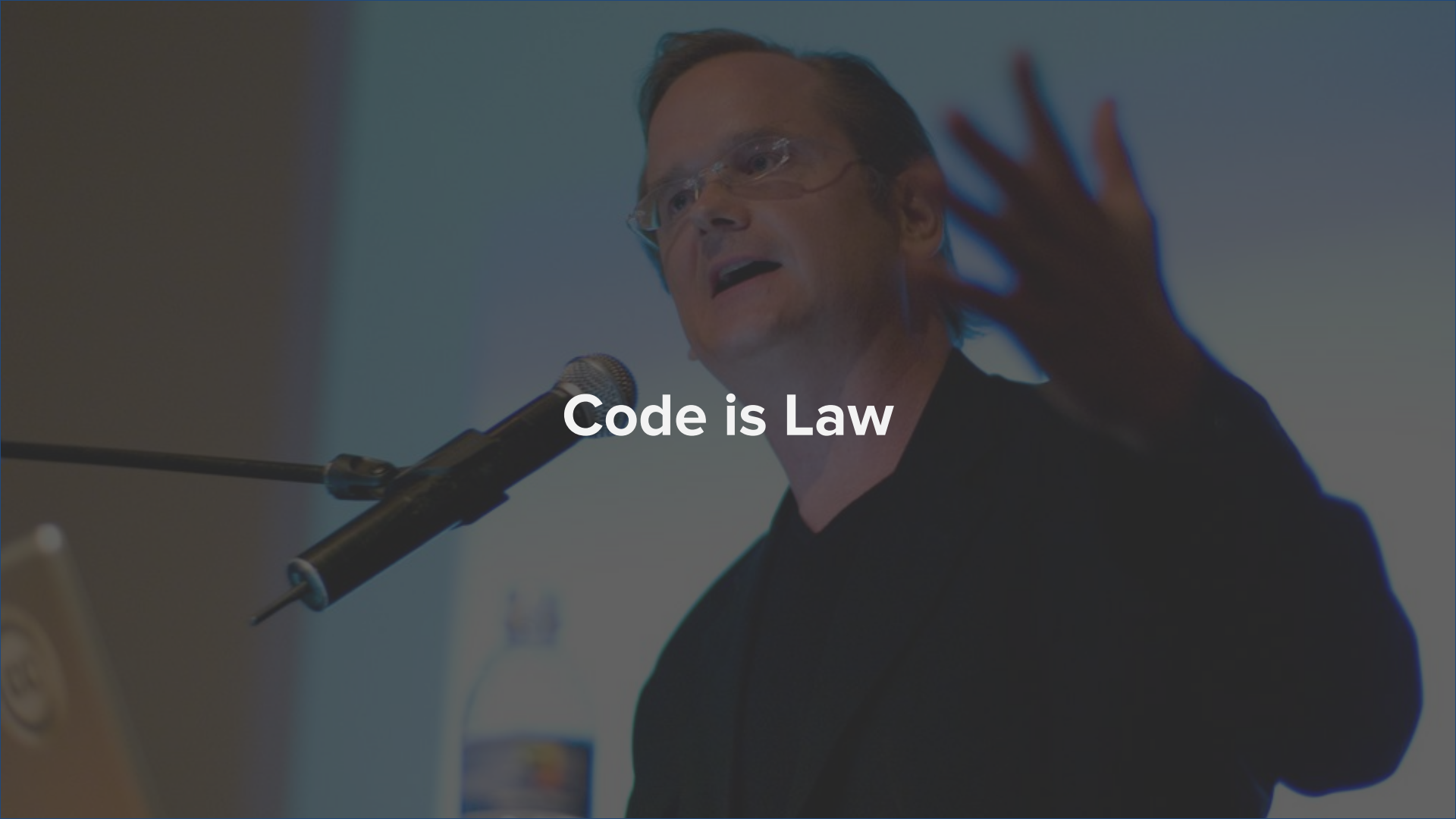


Locking the Web Open

The Decentralized Web

@brewster_kahle



A man with glasses and a dark shirt is speaking at a podium. He has his right hand raised in a gesture. A microphone is in front of him. The background is a light blue wall. The text "Code is Law" is overlaid in white.

Code is Law







A group of protesters is gathered in front of a large, classical-style building with many windows and arches. They are holding a large black banner with the text "SPYING IS CENSORSHIP" in large, bold letters. The word "SPYING" is in pink, and "IS CENSORSHIP" is in white. The letter "O" in "CENSORSHIP" is replaced by a white icon of an eye with a hand inside it, palm facing forward. Below the main text, it says "FIGHT FOR THE FUTURE" in white, followed by a small white heart icon. Several protesters are visible in the background, some with their mouths covered by tape with the letters "NSA" on it. One person on the right is holding a sign that says "THANK EDWARD SNOW". Another sign in the background says "No Spies Allowed".

SPYING IS
CENSORSHIP

FIGHT FOR THE FUTURE 

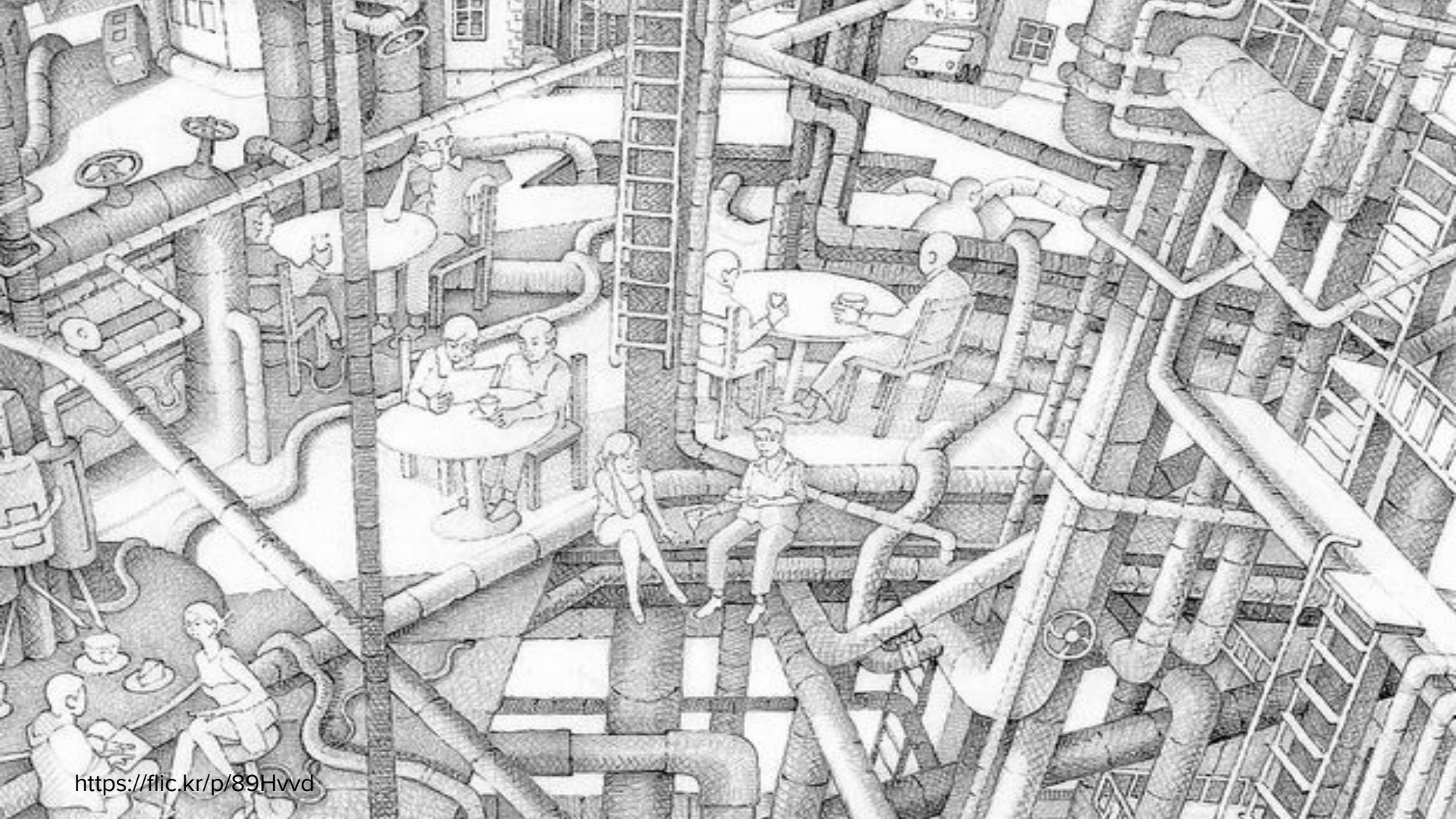




Web



Decentralized Web









tab
caps lock

A

S

Z

X

payment

alt

option

control



command

Javascript / Emulation



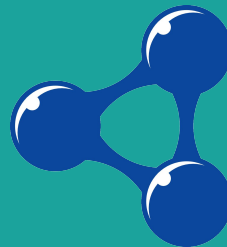
Encryption / Public Key



Peer-to-Peer



Blockchain / Bitcoin



How about a bold goal?

A hand is holding a circular WordPress logo. The logo is a blue circle with a white 'W' inside. The hand is positioned on the right side of the logo, with the thumb and index finger visible. The background is a solid dark gray.

How about Wordpress, but decentralized?

**Scientific Publishing with its software
and data
that is Decentralized?**

**Journalism that is safe to write, and safe
to read?**

How about _____, but decentralized?

Decentralized Web

Goals:

Normal browser (no download, no plug-in)

Good names: <http://brewsterblog.dweb>

Snappy performance

Fun to post and comment

User Identities with different roles

PLUS:

Payments / Tips

Versions / Archive

JavaScript as Operating System

Emulators show power
WebRTC enables P2P in JS
Website search in javascript
Website database in javascript

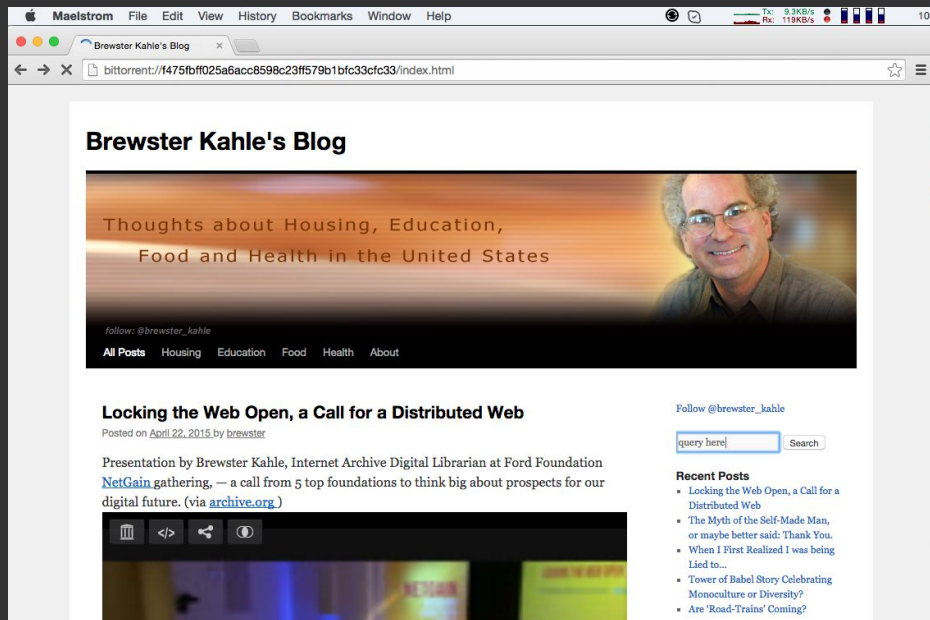


Normal browser
(no download, no plug-in)

Demo

<https://archive.org>

<https://dweb.archive.org/>



An Easy Name System

Example: `http://brewsterblog.dweb`

Namecoin uses blockchain for registration

Ethereum ?



Good Names

Performance, Versions

Institutional Archives

ISP's / CDN's

+ others



Snappy Performance

Updates, decentralized

Mutable torrents

IPFS

GUN

YJS



Fun to update and comment

Decentralized Identity System

Bitcoin addresses for Signing Posts, proving identity (no passwords!)

Solid crypto / Solid Community / Existing Tools

Creation of delegated identities

Bonus points: Tipping and Payment system built in!



User Identities with different roles

Bonus points for Tips and Payments

We can have _____, but Decentralized

Goals:

- ✓ Normal browser (no download, no plug-in)
- ✓ Good names: <http://brewsterblog.dweb>
- ✓ Snappy performance
- ✓ Fun to post and Comment
- ✓ User Identities with different roles
- ✓ Payments / Tips
- ✓ Versions / Archive



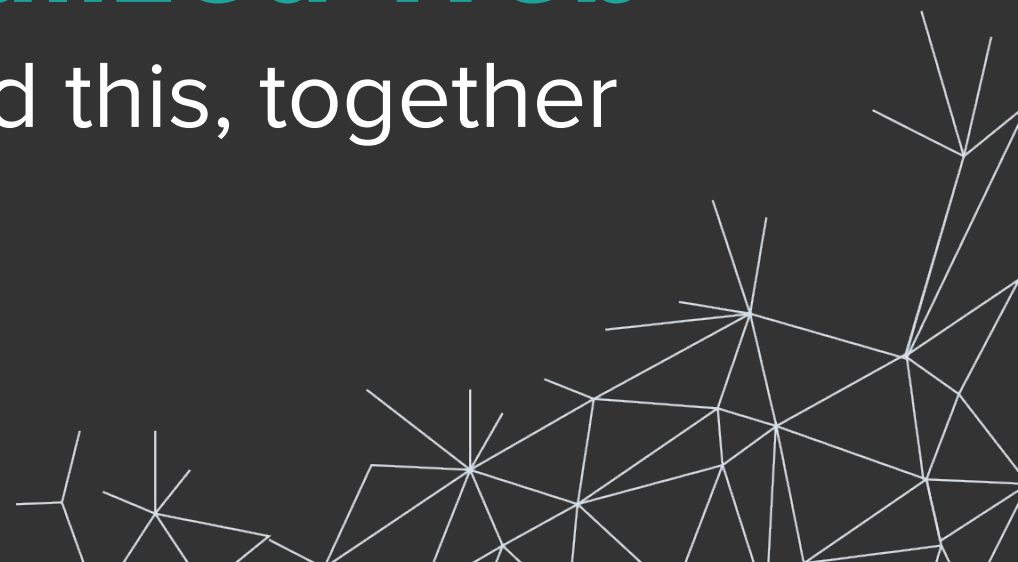
Decentralized Web: Reliable Private Fun

LOCK THE WEB OPEN

A cluster of colorful triangles in shades of orange, red, green, and blue, arranged in a geometric pattern in the top-left corner.

Decentralized Web

We can build this, together

A network diagram in the bottom-right corner consisting of white lines connecting various points, forming a web-like structure.