

# Locking the Web Open

The Decentralized Web

@brewster\_kahle

@internetarchive



A man with glasses is speaking at a podium. A microphone is positioned in front of him. The text "Code is Law" is overlaid on the image in white. The background is a light blue wall.

**Code is Law**



INTERNET ARCHIVE



INTERNET ARCHIVE



INTERNET ARCHIVE



SPYING IS  
CENSORSHIP

FIGHT FOR THE FUTURE 



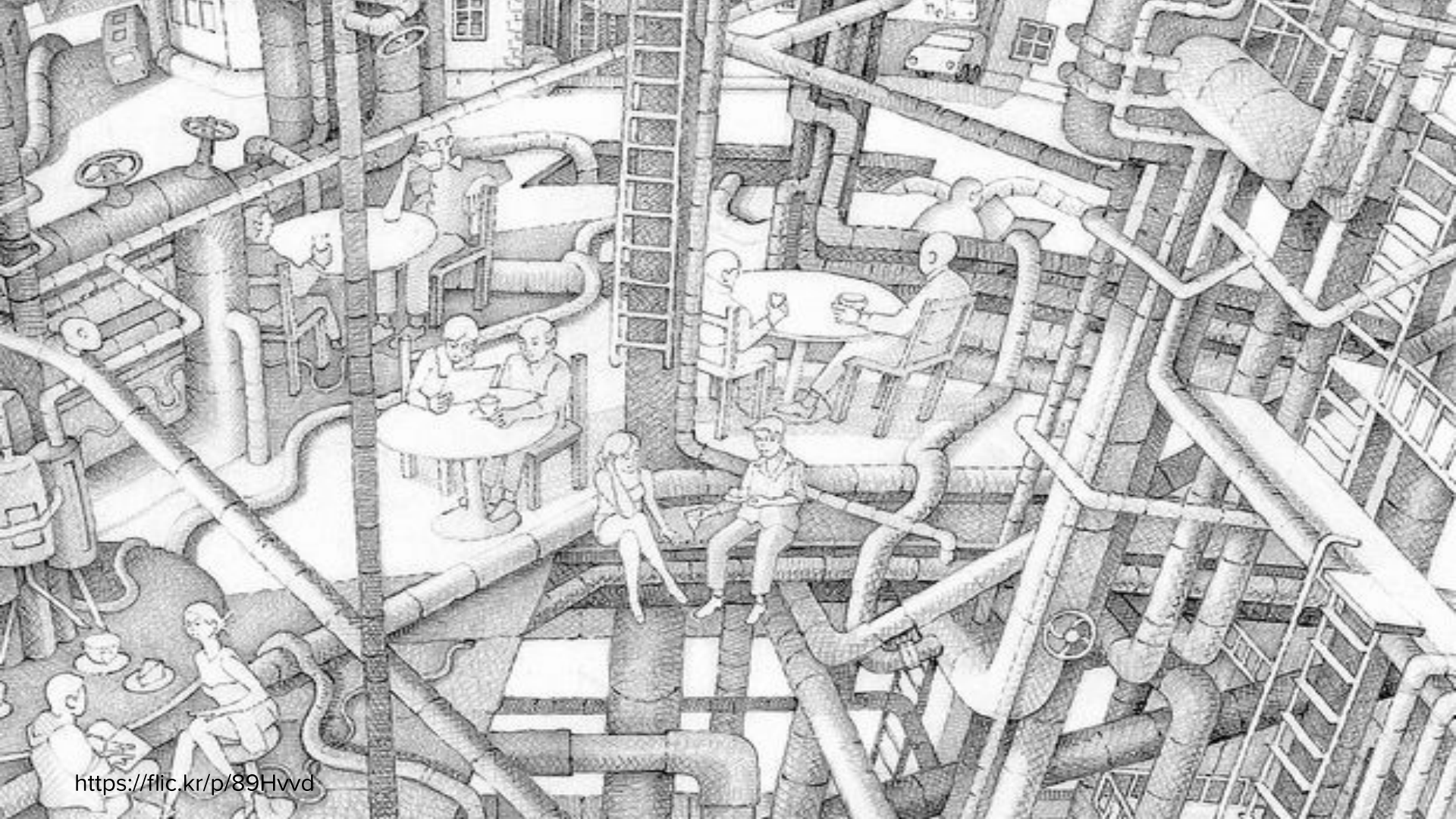


**Web**



**Decentralized Web**













payment

caps lock

A

S

Z

X

alt

option

command

control

# Javascript / Emulation



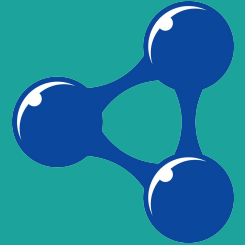
# Encryption / Public Key



# Peer-to-Peer



# Blockchain / Bitcoin



**How about a bold goal?**

A hand is shown holding a circular WordPress logo. The logo is a white 'W' inside a blue circle, with a white border. The background is a dark, muted blue-grey color.

**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

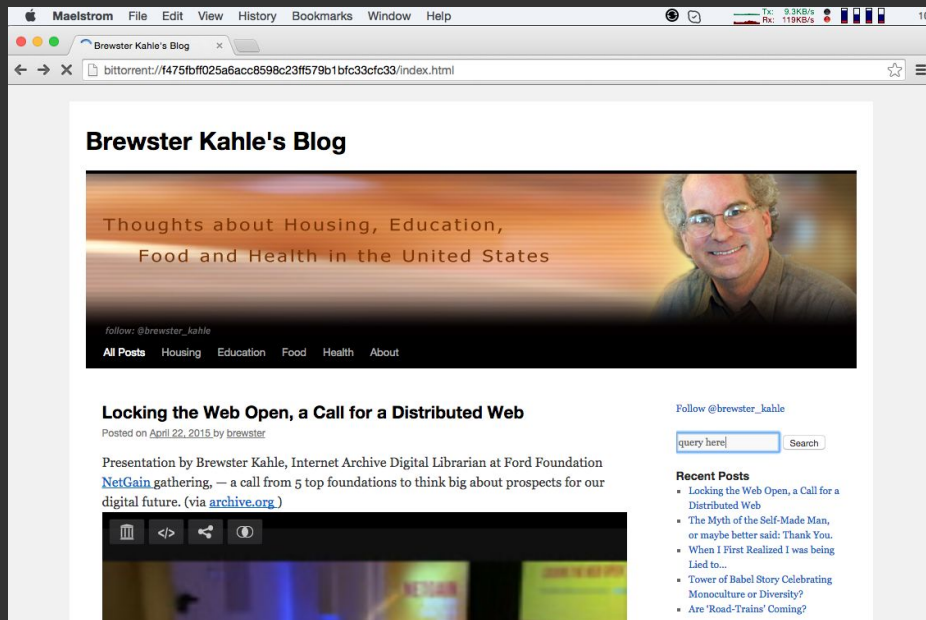
(no download, no plug-in)

# Demo

<https://archive.org>

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

<https://www-dweb-mirror.de.v.archive.org/details/local>



The screenshot shows a web browser window with the title 'Maelstrom'. The address bar contains a BitTorrent URL: `bittorrent://f475fbf025a6acc8598c23ff579b1bfc33fc33/index.html`. The page content is for 'Brewster Kahle's Blog', featuring a banner with a portrait of Brewster Kahle and the text 'Thoughts about Housing, Education, Food and Health in the United States'. Below the banner is a navigation menu with 'All Posts', 'Housing', 'Education', 'Food', 'Health', and 'About'. The main article is titled 'Locking the Web Open, a Call for a Distributed Web', posted on April 22, 2015, by 'bzevster'. The article text begins with 'Presentation by Brewster Kahle, Internet Archive Digital Librarian at Ford Foundation NetGain gathering, — a call from 5 top foundations to think big about prospects for our digital future. (via [archive.org](https://archive.org))'. A video player is partially visible below the text. On the right side, there is a 'Follow @brewster\_kahle' section with a search box and a 'Recent Posts' list containing several article titles.

# Builders Day, 2016



SF Mint, 2018

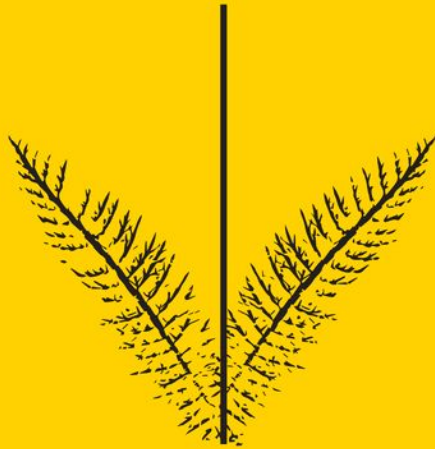




# The Mushroom Farm, 2019



D  
Web  
Camp



**post covid-19, 2020**

The Mushroom Farm

Pescadero, CA

# 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**



# Decentralized Web

We can build this, together



# Locking the Web Open

The Decentralized Web

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