Beaker Browser and the peer-to-peer Web:

Why? How? And what's next?

Tara Vancil

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NodeConf Argentina

Tara Vancil

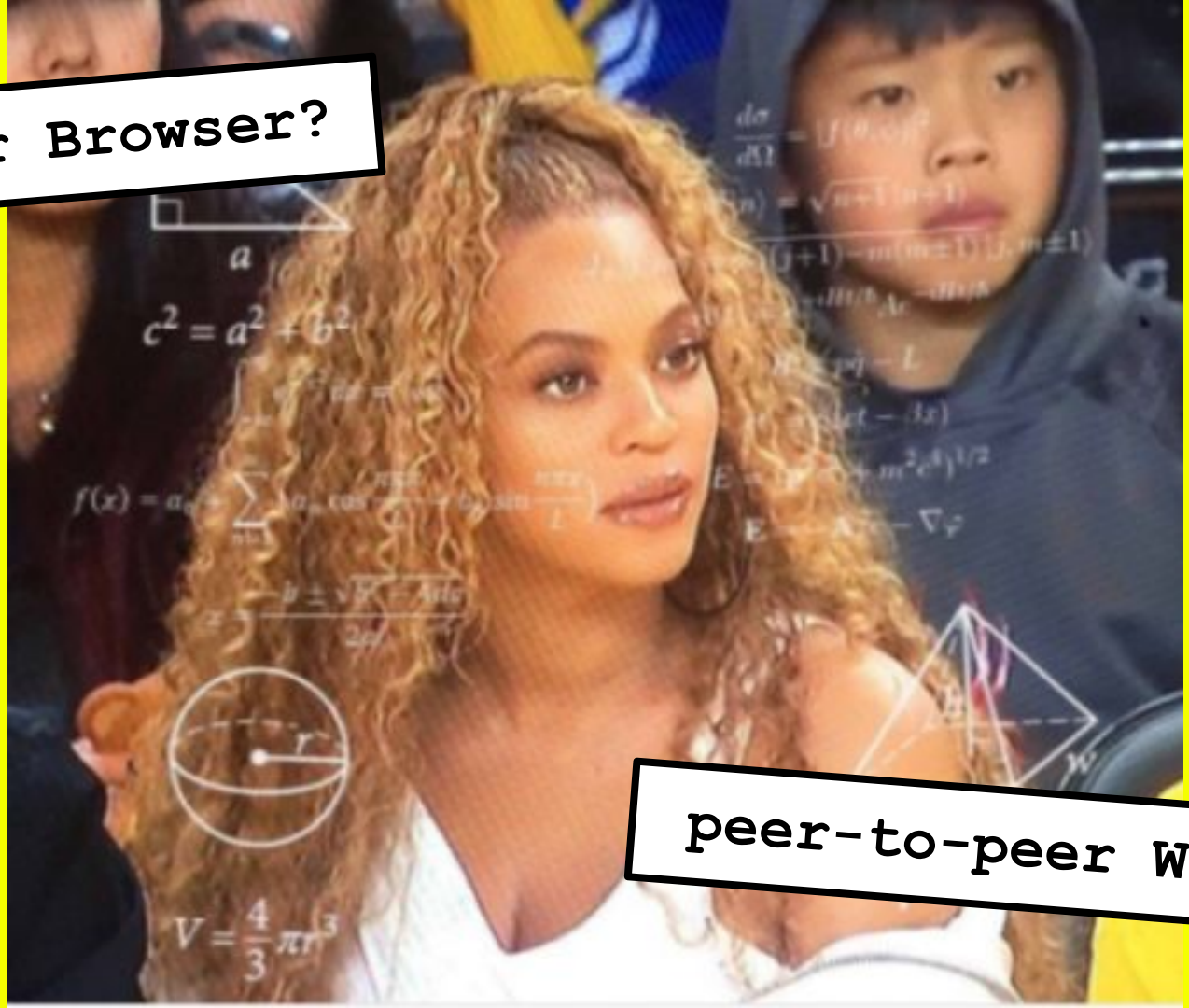
The Web, nail art, Beyoncé

- taravancil.com
- beakerbrowser.com

Beaker is an experimental browser

beakerbrowser.com

Beaker Browser?



peer-to-peer Web??

1. What's the peer-to-peer Web?

2. Why build a new browser?

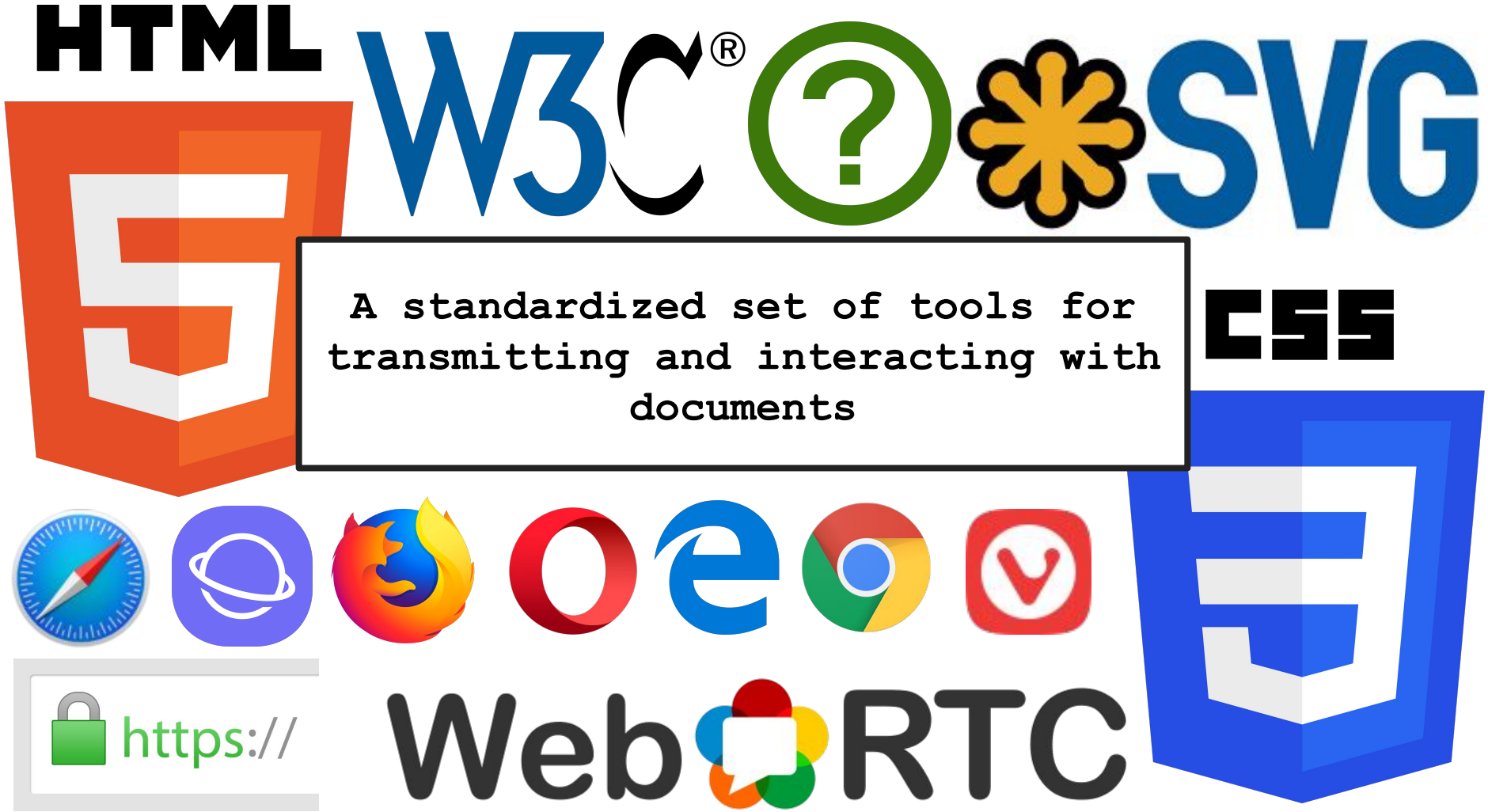
3. What's next?

1.

What's the peer-to-peer Web?

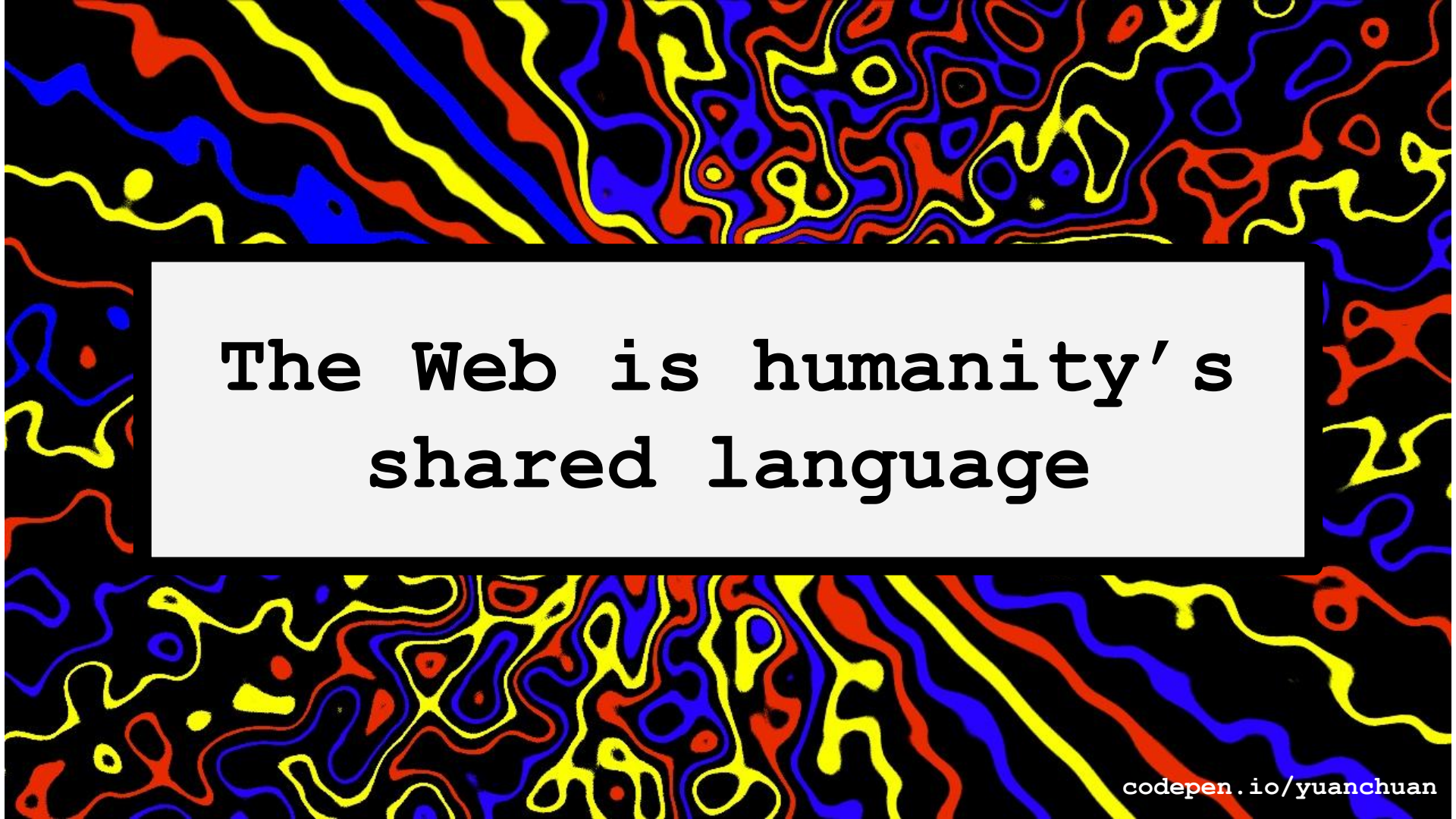
1.

What's the ~~peer-to-peer~~ Web?


HTML
W3C
SVG
A standardized set of tools for transmitting and interacting with documents
CSS
https://
WebRTC

HTML
W3C
SVG
Standards and technologies
for using hypertext
CSS
https://
WebRTC

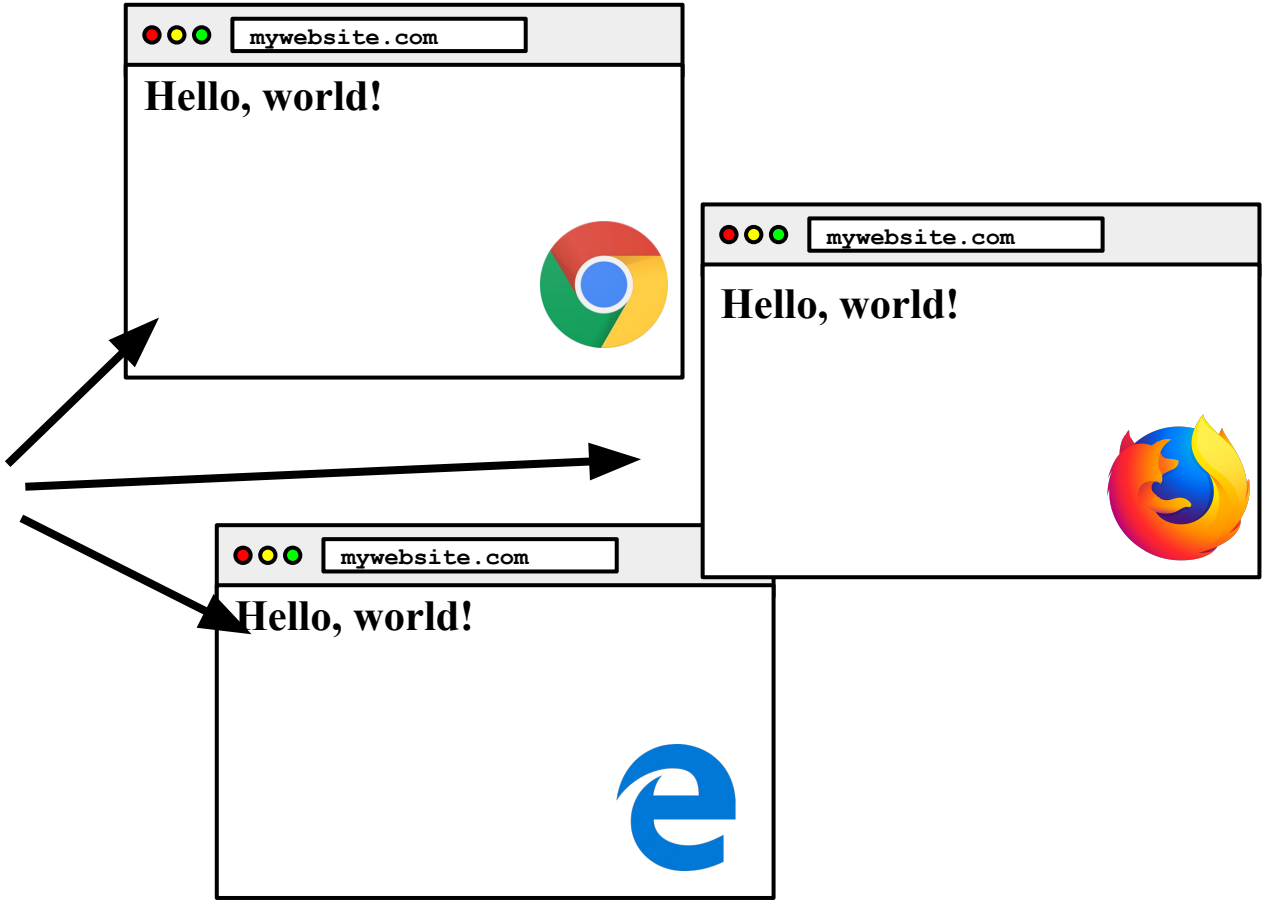
HTML
W3C®
SVG
A bizarre miracle of human cooperation
CSS
https://
WebRTC


The Web is humanity's shared language
codepen.io/yuanchuan

The Web is humanity's language for creating and sharing stuff.

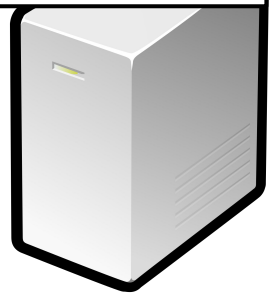
index.html

```
<html>
  Hello, world!
</html>
```



Web

AWS, Google Cloud, Azure, Heroku, etc.



```
<html>
  Hello, world!
</html>
```

me

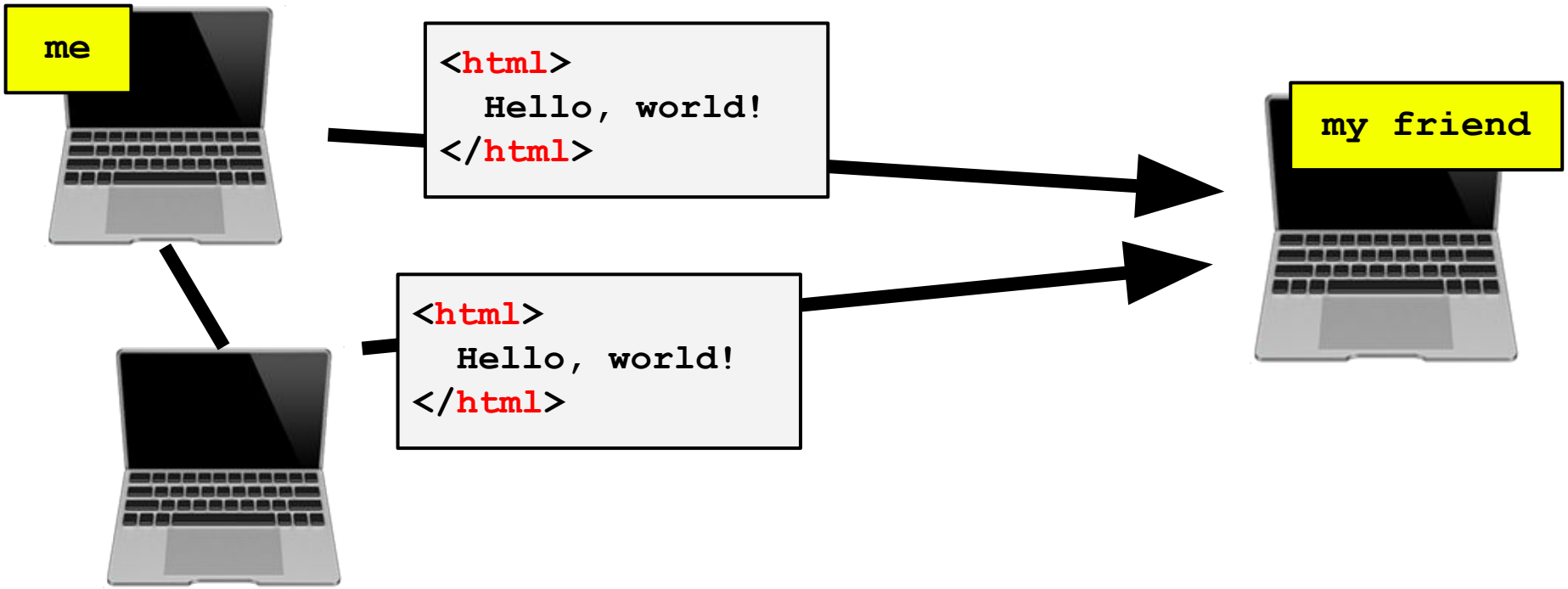
```
<html>
  Hello, world!
</html>
```

my friend

The peer-to-peer Web is the Web

Peer-to-peer Web

Peer-to-peer Web



BitTorrent

BitTorrent

What happens if you put a peer-to-peer protocol in the browser?

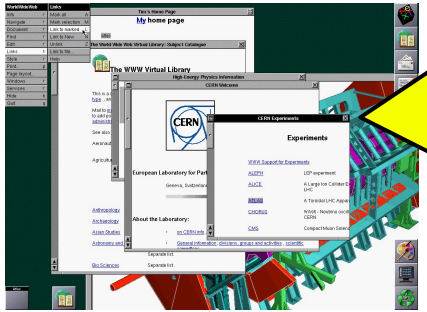
2.

Why build a new browser?

@pfrazee
@taravancil
@mafintosh

I <3 the Web
codepen.io/yuanchuan

The Web is imperfect, (and that's ok!)



WorldWideWeb.app
(first browser)

1990

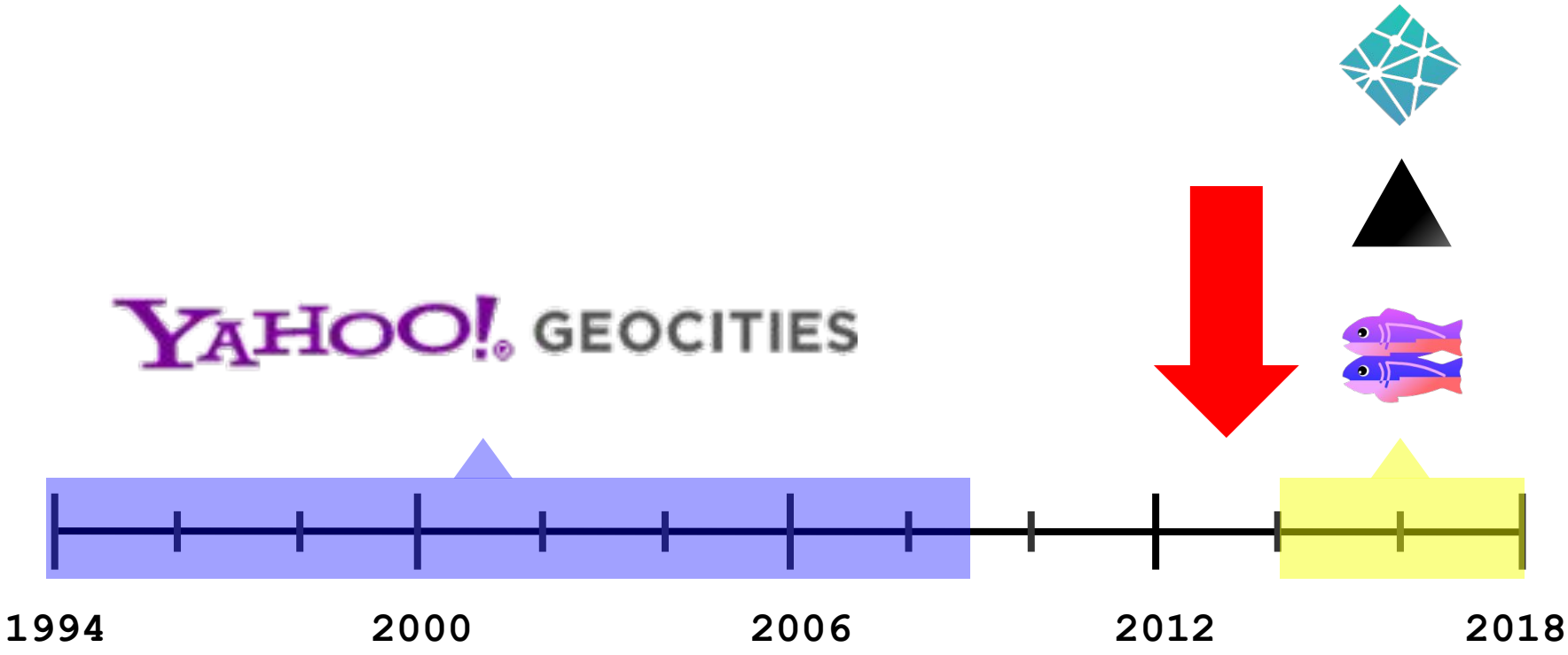
2018

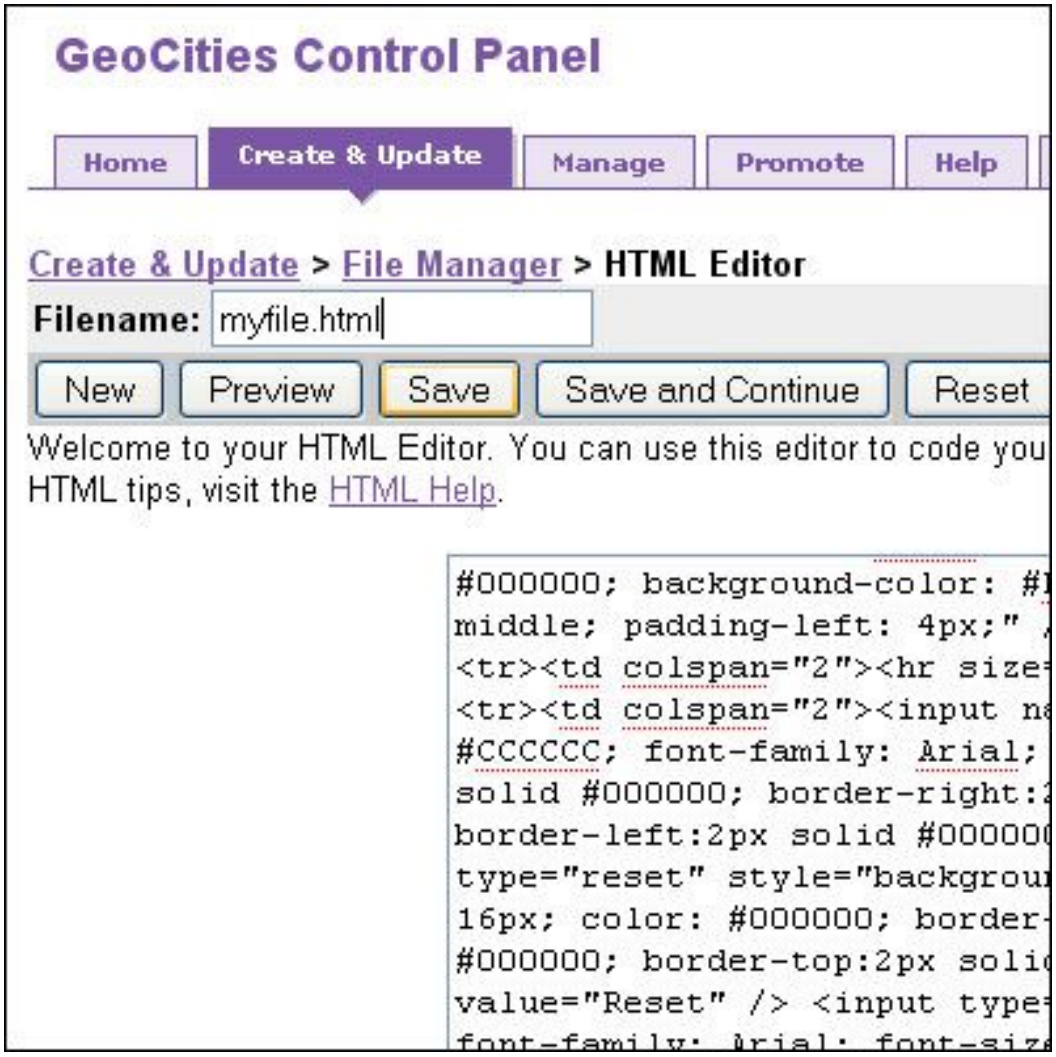
28 years

The Web is imperfect

How will we shape the next 30 years?

Servers suck
codepen.io/yuanchuan


YAHOO! GEOCITIES
1994
2000
2006
2012
2018


GeoCities Control Panel
Home
Create & Update
Manage
Promote
Help
Create & Update > File Manager > HTML Editor
Filename: myfile.html
New
Preview
Save
Save and Continue
Reset
Welcome to your HTML Editor. You can use this editor to code you
HTML tips, visit the HTML Help.
#000000; background-color: #
middle; padding-left: 4px;" ,
<tr><td colspan="2"><hr size
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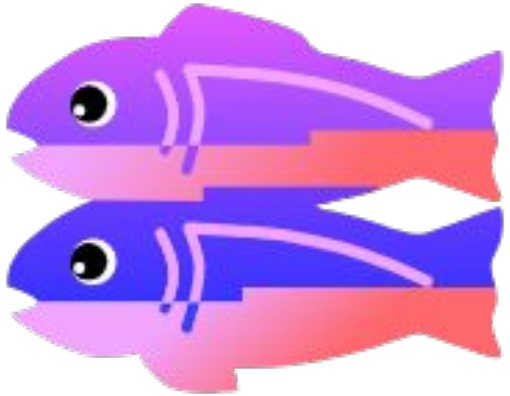
neocities.org



glitch.com

Publishing is core to the Web's ethos. How can we equalize access for the long term?

The Web is imperfect

How will we shape the next 30 years?

3.

What's next?

What's next?

- Beaker will keep experimenting
- Maybe other browsers will too?

Firefox whitelisted 3 peer-to-peer protocols

Support for Decentralization Protocols

Mozilla has always been a proponent of decentralization, recognizing that it is a key ingredient of a healthy Internet. Starting with Firefox 59, several protocols that support decentralized architectures are approved for use by extensions. The newly approved protocols are:

- Dat Project (dat://)
- IPFS (dweb:// ipfs:// ipns://)
- Secure Scuttlebutt (ssb://)

Firefox itself does not implement these protocols, but having them on the approved list means the browser recognizes them as valid protocols and extensions are free to provide implementations.

Thank you!

- beakerbrowser.com/install
- taravancil.com/slides
- dat://p2p.taravancil.com