

Imagine this: a Web without servers



Tara Vancil

The Web, p2p protocols, nail art

- taravancil.com
- beakerbrowser.com





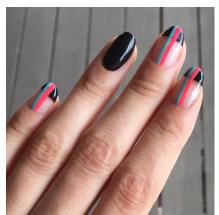
taravancil.com/nails

















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facebook



SPARKNOTES







\$ npm install -D webpack

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- \$ vim package.json

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- \$ npm run build

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- \$ vim package.json
- \$ npm run build
- \$ ssh -i ~/.ssh/mykey me@192.168.2.1

```
$ npm install -D webpack
$ vim package.json
$ npm run build
sh -i ~/.ssh/mykey me@192.168.2.1
// ...?!
```



Tom Dale @tomdale · 24m

I remember the old days when our tools were Simple and Good. There were definitely not any slow, ugly and broken web sites.

Now tools are Complex and Bad and good luck getting one useful thing done on the web in a given day.









```
index.html
```

```
<h1>
Hello, world!
</h1>
```

index.js

```
var app = new Vue({
  el: '#hello',
  data: {
    message: 'Hello, world!'
  }
})
```

index.html

```
<h1 id="hello">
{{ message }}
</h1>
```

index.html

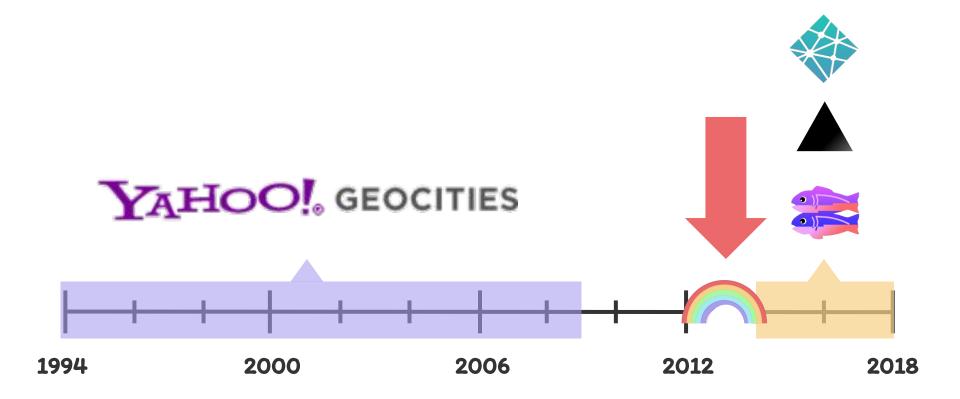
<h1> Hello, </h1> index is

mywebsite.com

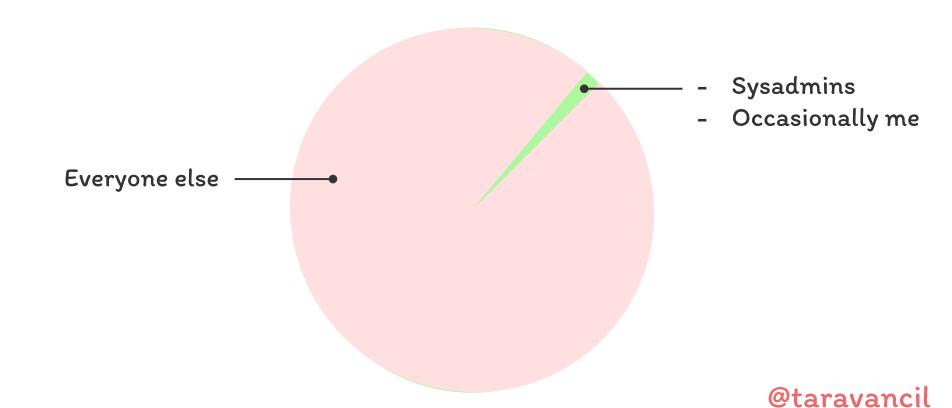
Hello, world!

o, world!'

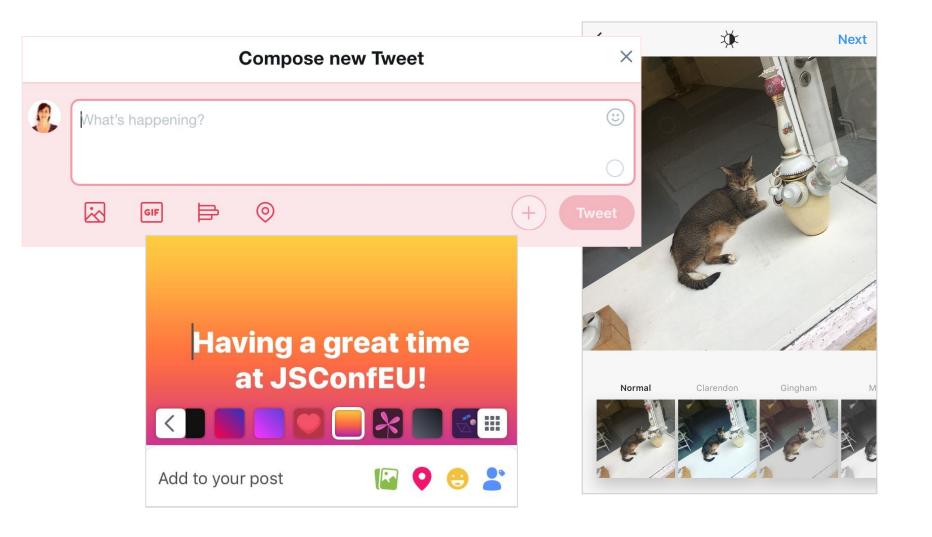




People who enjoy running servers









@taravancil





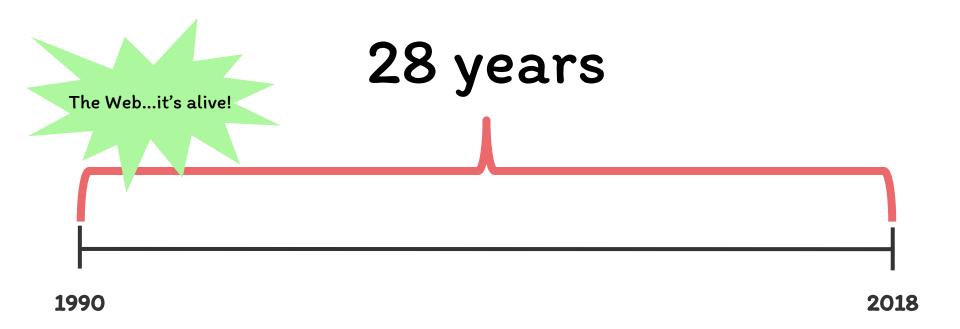




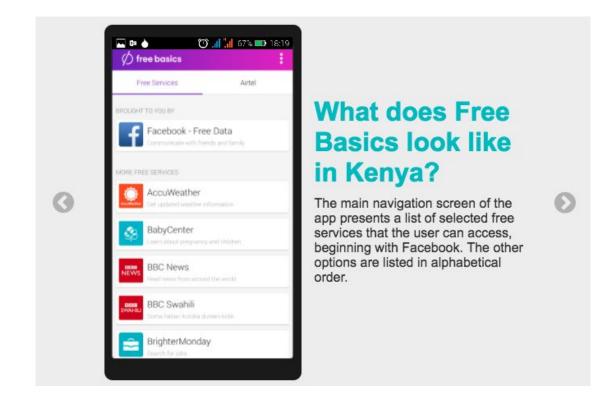


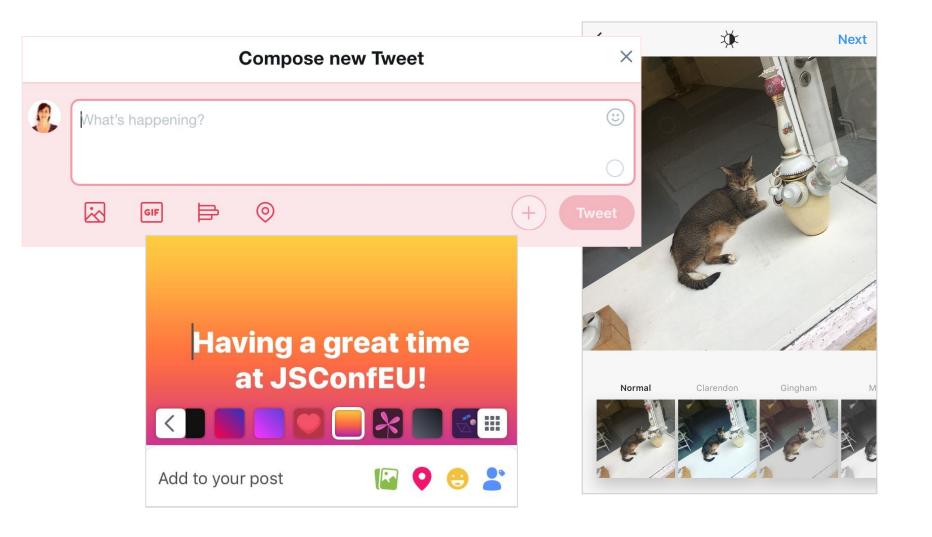






Facebook Free Basics

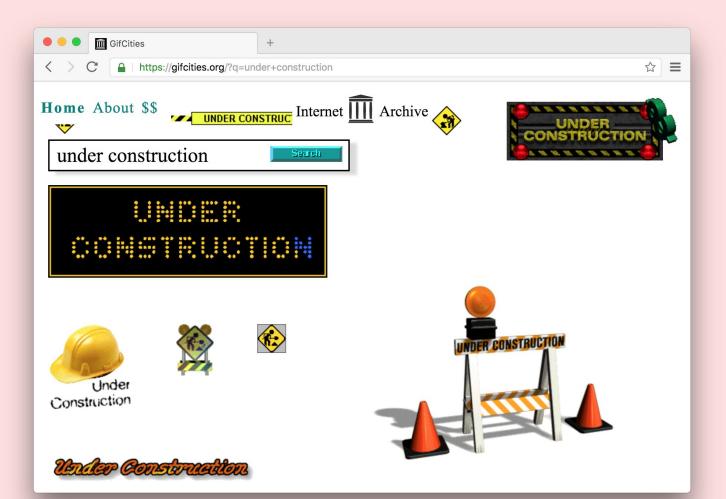






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font-family. Arial: font-size

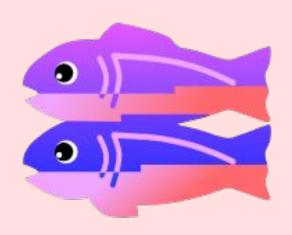


neocities

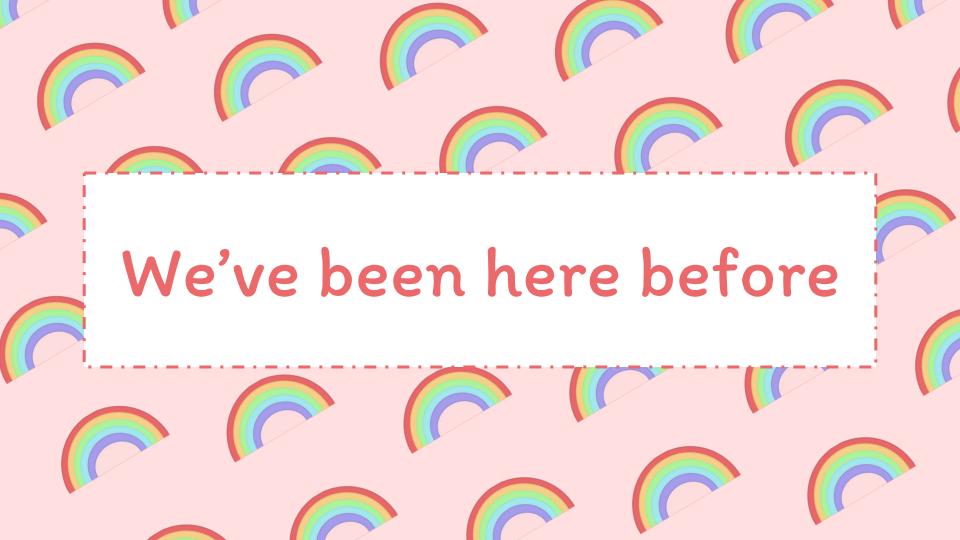


neocities.org

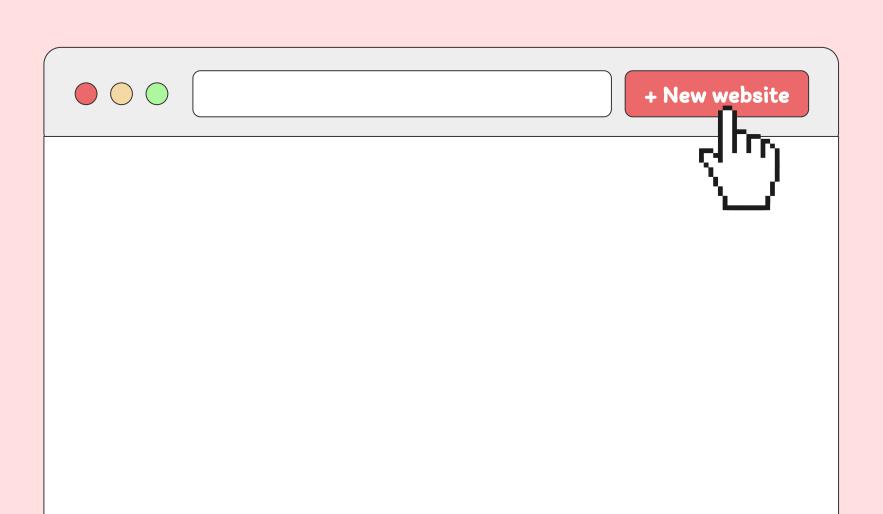
Glitch

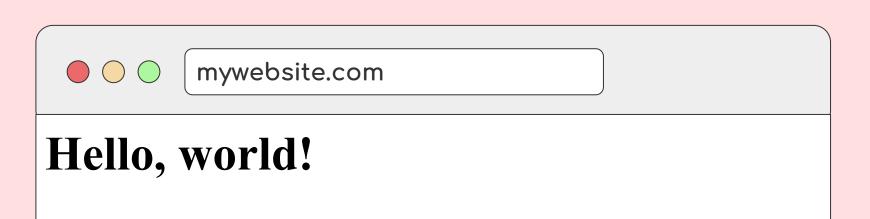


glitch.com



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





Let's turn our devices into servers!

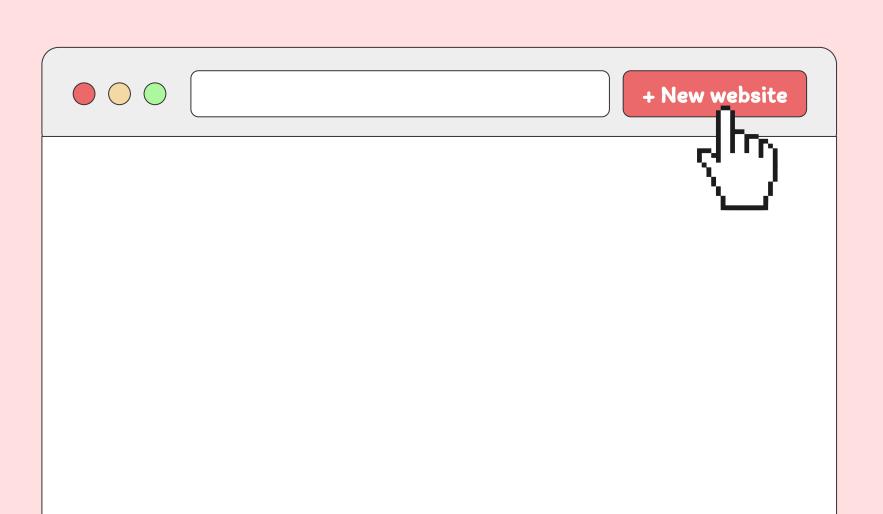


Personal devices are not servers

- Not always on (sleeping, dead battery, etc.)
- No dedicated IP address
- Can't handle traffic









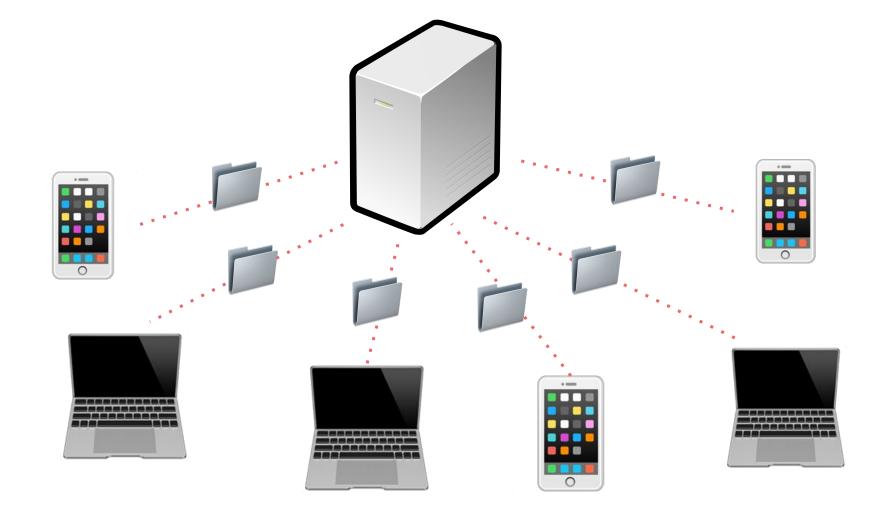


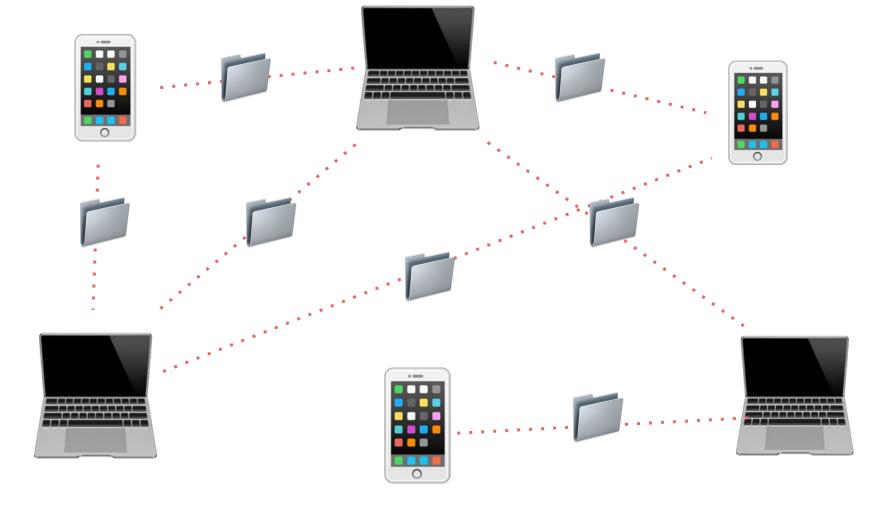


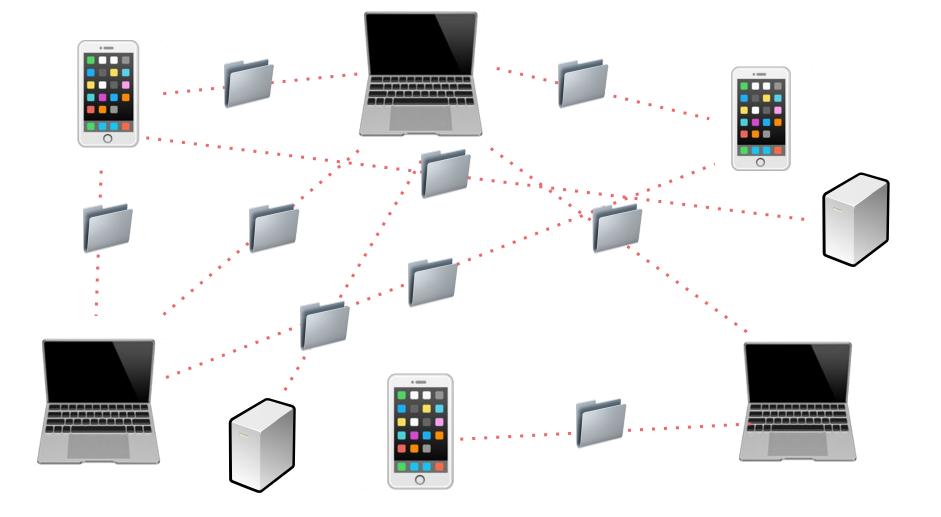


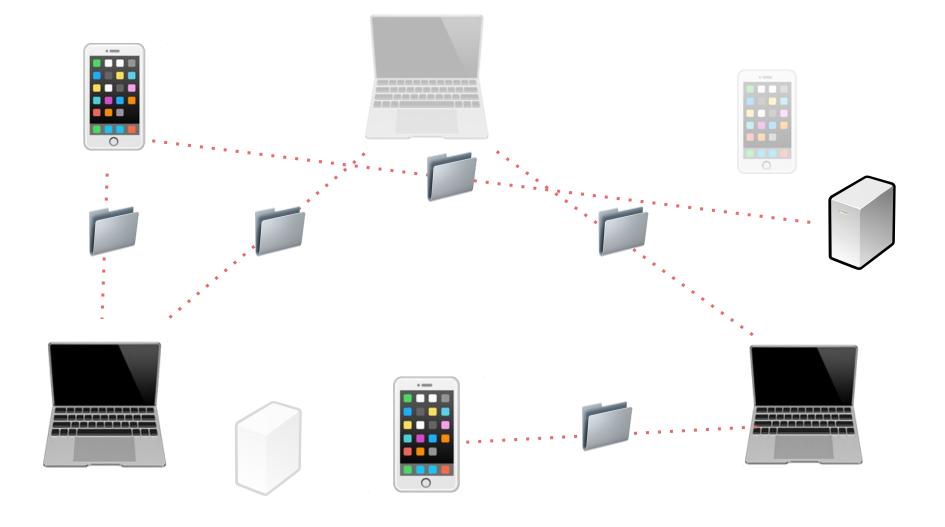
BitTorrent













The Pirate Bay

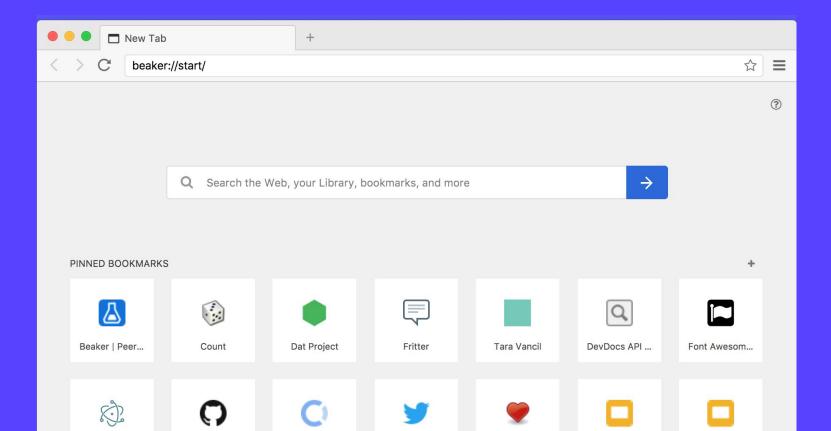
```
assets/
  -- images/
     avatar.jpg
     - sunset.jpg
index.html
index.js
styles.css
```

A website!





beakerbrowser.com



P2ρ://mywebsite.com

Hello, world!

???

The Web, but make it peer-to-peer

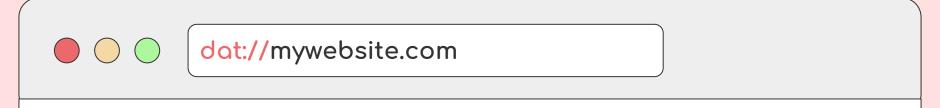




Peer-to-peer hypermedia protocol for syncing and browsing files on-demand

datprotocol.com • datproject.org

The peer-to-peer Web



Hello, world!

1. One-click publishing

1. One-click publishing

2. Supercharged View Source

1. One-click publishing

2. Supercharged View Source

3. New Web APIs



One-click publishing

Supercharged View Source

3. New Web APIs



profile.json

```
{
   "name":"Tara Vancil",
   "bio":"Peer-to-peer Web nerd.",
   "avatar":"avatar.png"
}
```

Beaker Web APIs

```
var website = new
DatArchive('dat://jsconfeu.taravancil.com')
website.readFile('index.html')
// <html>...</html>
website.writeFile(
   api.html',
   '<h1>Hello from the console</h1>'
```



- Supercharged View Source
- ✓ Cool Web APIs



</> github.com/beakerbrowser



opencollective.com/beaker

Thank you!

@taravancil

- jsconfeu.taravancil.com
- beakerbrowser.com

^ Try these over dat://

