## The Two Webs

The Evolution of the World Wide Web (and what we should do about it)

## **Outline**

#### **Outline**

- 1. The First World (The Library)
- 2. The Second World (The Pipe)
- 3. Where we are today
- 4. Where should we go?

# World 1: The Library



The ARPANET



Tim Berners Lee



Tim Berners Lee

### who-has-it/what-i-want

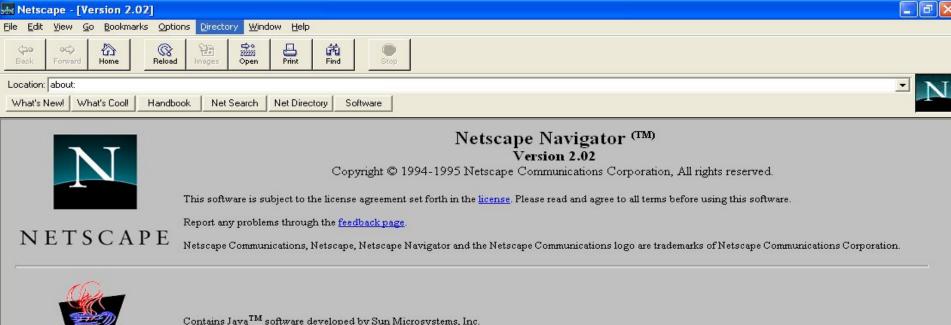
```
<document>
  <header>
     Section 1
  </header>
  <link: who-has-it/what-i-want>
</document>
```

```
<document>
  <header>
     Section 1
  </header>
  <link: who-has-it/what-i-want>
</document>
```

```
<document>
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  </header>
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</document>
```









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Big Idea:
Downloading Documents in
Standard Formats

### **New Ideas**

- Screen Readers: The Web for the Blind!

### **New Ideas**

- Screen Readers for the Blind
- RSS: Download from Everywhere!



Tim Berners Lee

#### **Power Grabs**

- Accidental Incompatibilities
- "Embrace, Extend, Extinguish"



## World 2: The Pipe

## **Beyond HTML**

- Goal: Make cool things on the web
- Problem: "Sharing only" limits what we can do
- Solution: Enable 2 way communication

Date: Sun, 3 Apr 2022 13:51:01 -0700 From: Yash Lala <yashlala@gmail.com>

To: Yash Lala <yashlala@gmail.com>

Subject: Yee

Message-ID: <20220403205101.3ja7ajkoias7eege@graphite>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Disposition: inline

Hello. This is an email.

Date: Sun, 3 Apr 2022 13:51:01 -0700 From: Yash Lala <yashlala@gmail.com>
To: Yash Lala <yashlala@gmail.com>

Subject: Yee

Message-ID: <20220403205101.3ja7ajkoias7eege@graphite>

MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii

Content-Disposition: inline

Hello. This is an email.

<1 pixel image>

## **Beyond HTML**

- Goal: Make cool things on the web
- Problem: "Sharing only" limits what we can do
- Solution: Enable 2 way communication

## **Beyond HTML**

VDS ADS ADS ADS!!!

```
<document>
  <ad>
    HOT IPHONES IN YOUR AREA
  </ad>
</document>
```

Transparency becomes the Enemy



Netflix: CPU Cooperation

# Big Idea: Portable Way to Run Applications

## Where Are We Today?

### **Our World Today**

- Corporate Push for the "Opaque Pipe":
  - Fall of RSS + Downloads
  - Decreasing Transparency
- Public Push for the "Library":
  - Podcasting + RSS Renaissance
  - Ad blockers

## Where Should We Go?

#### **A Pivotal Moment**

- Supreme court on both sides of the issue
- What do you think?