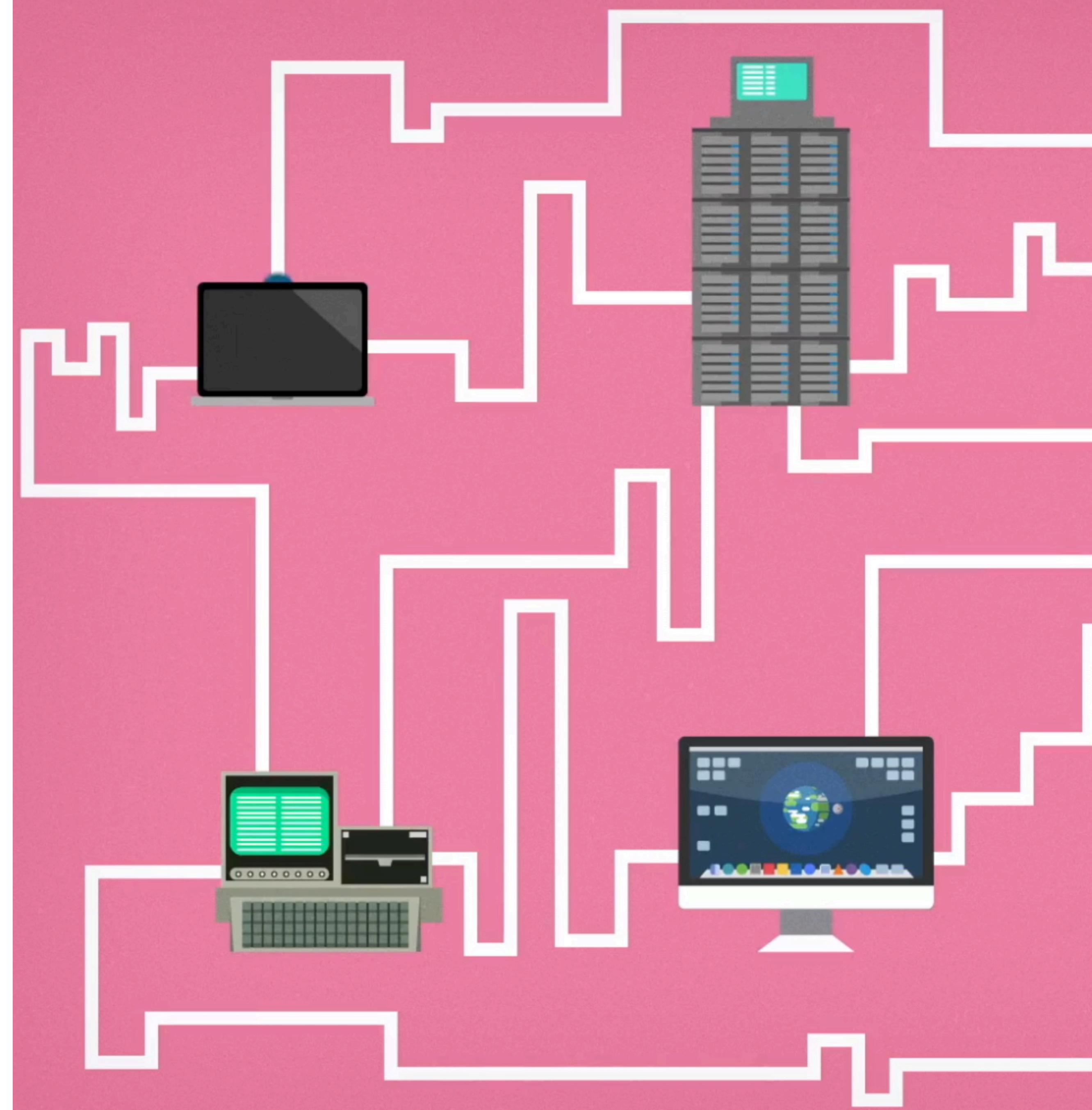


Internet vs. World Wide Web

The Internet.

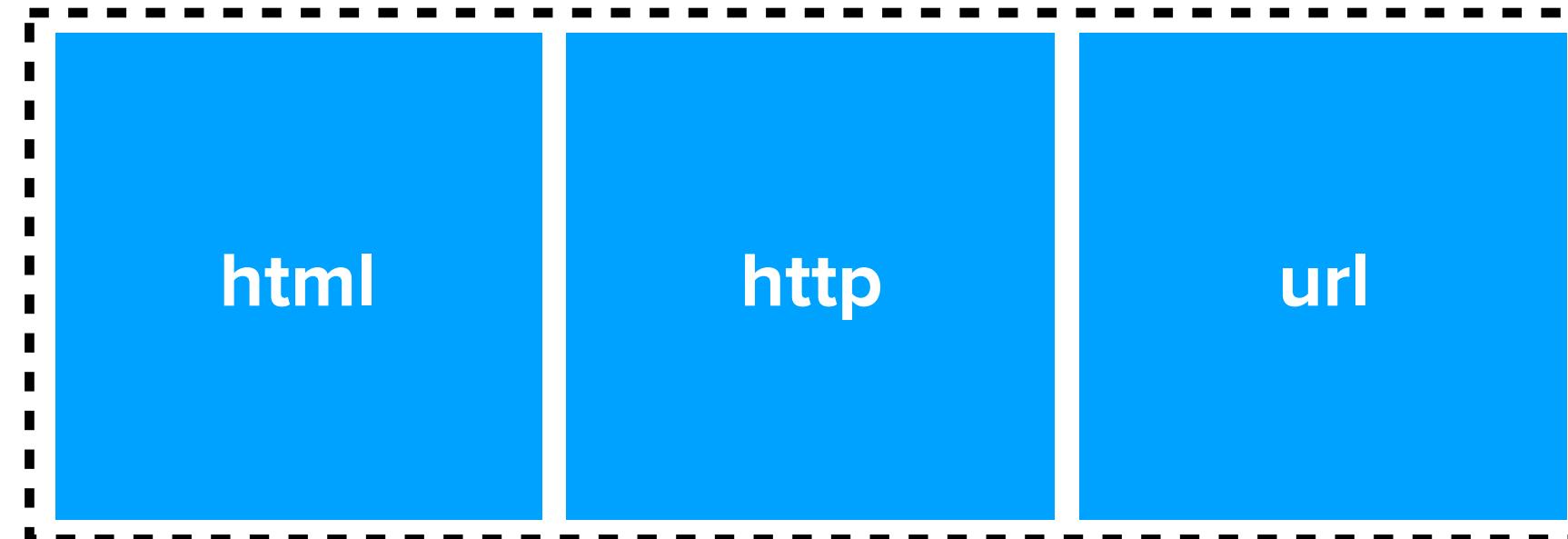


“The Internet is a massive network of networks. It connects millions of computers together globally, forming a network in which any computer can communicate with any other computer as long as they are both connected to the Internet. **Information that travels over the Internet does so via a variety of communication protocols.**”

The Word Wide Web



World Wide Web



E-Mail



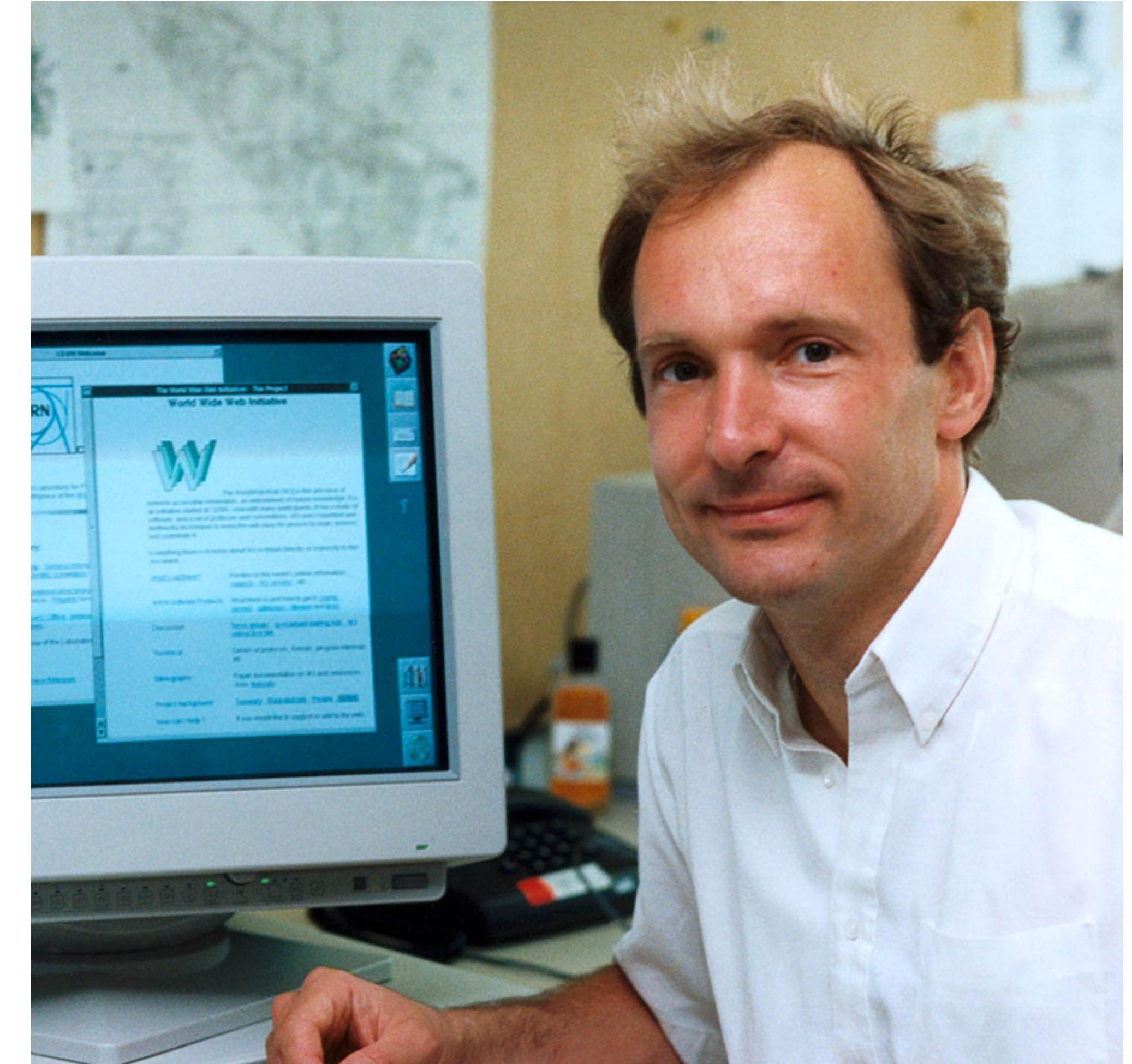
Internet

“The World Wide Web, is a way of accessing information over the medium of the Internet. It is an **information-sharing model that is built on top of the Internet**. The Web uses the HTT-Protocol. The Web also utilizes browsers, such as Chrome or Firefox, to access Web documents called Web pages that are linked to each other via hyperlinks.”

A Quick Story of the Web

Meet Tim Berners-Lee

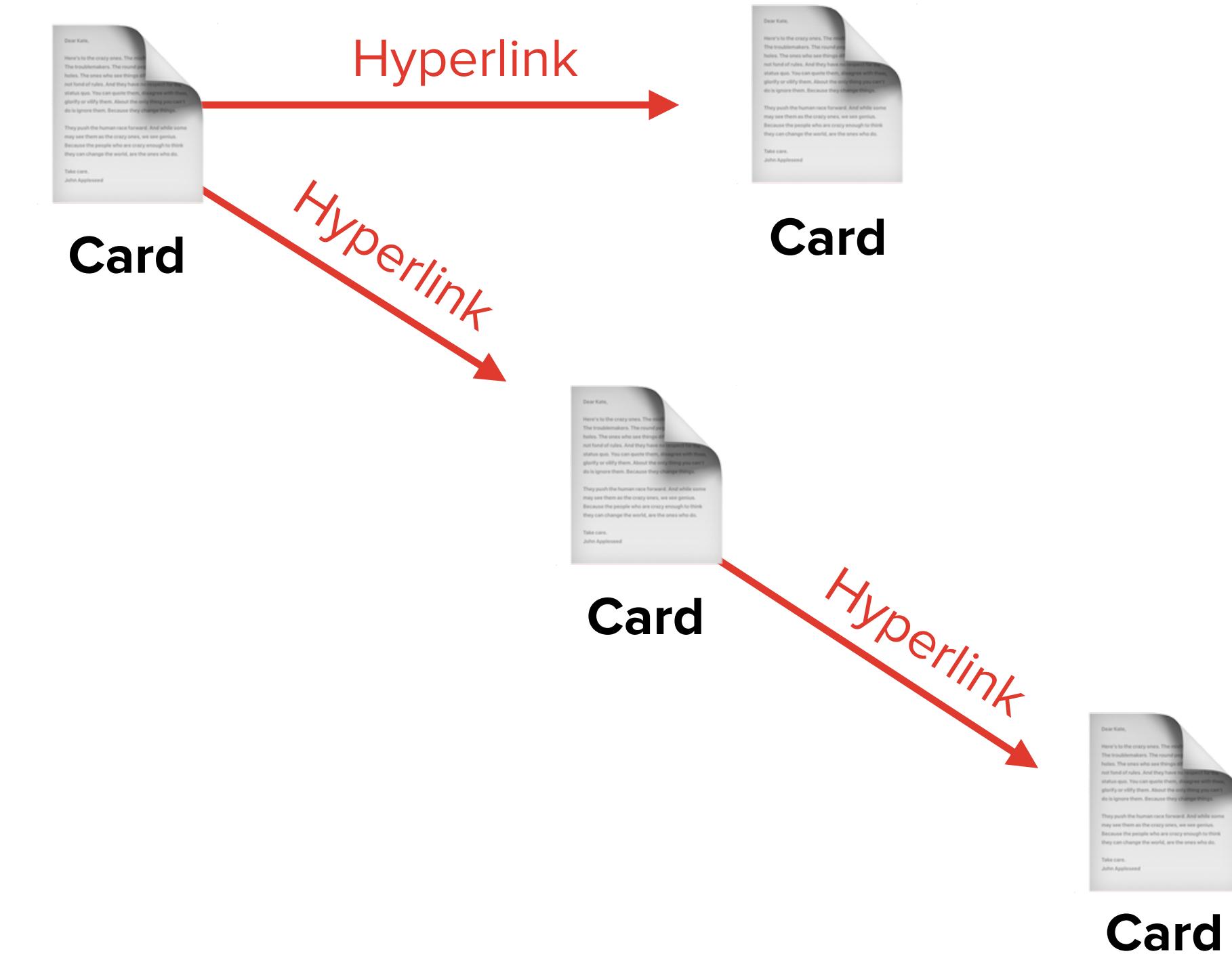
In 1980, Tim worked for CERN, where he proposed a better way for researchers there to share and read documents.



ENQUIRE

In 1984, he built something called ENQUIRE for CERN. It was made up of **Cards** (Documents) and **Hyperlinks** (which connected the Documents)

🔥 This system was only available internally at CERN.



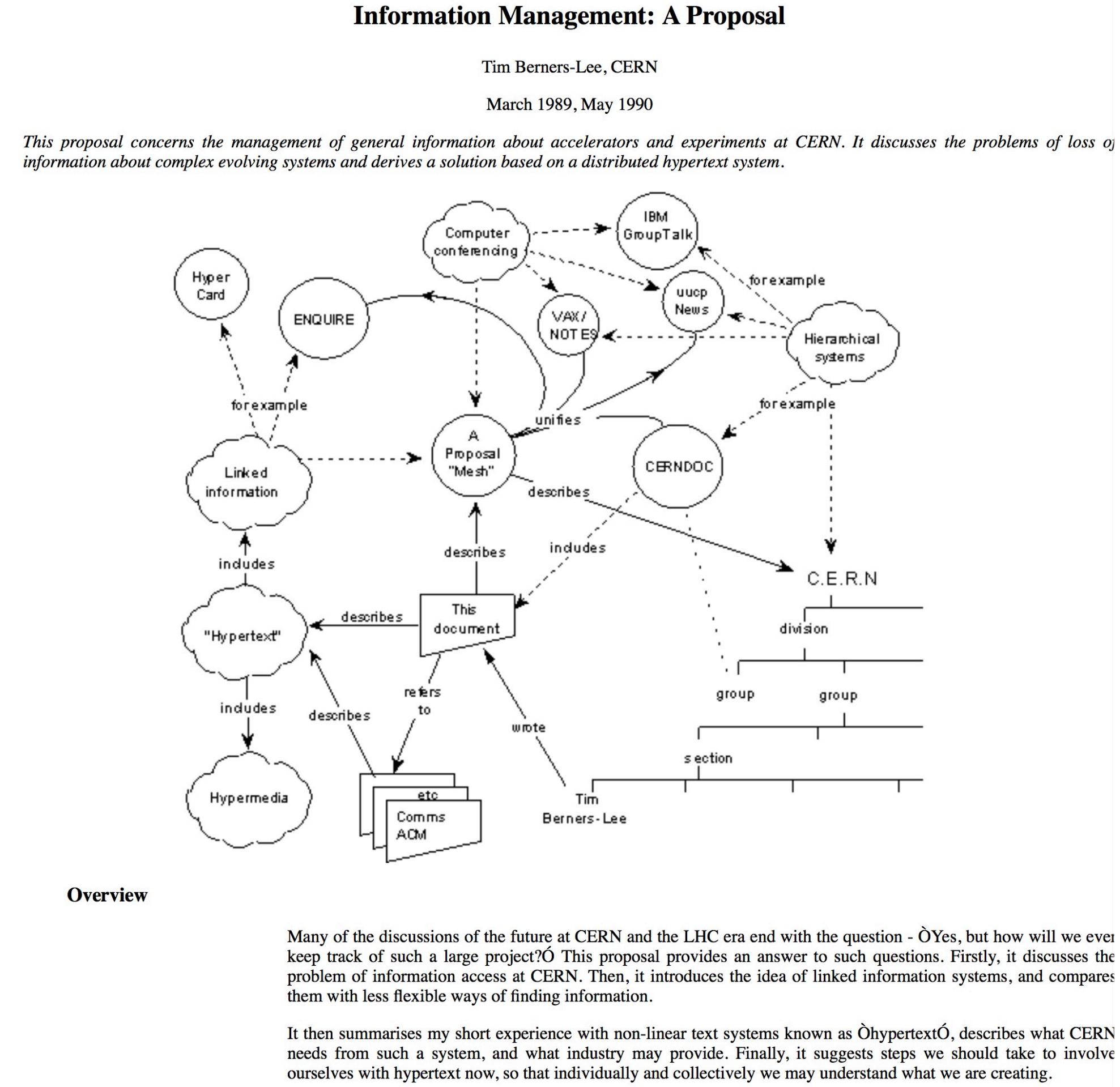
The World Wide Web

With Robert Cailliau, Tim Berners-Lee wrote a proposal in 1990 for the creation of the **World Wide Web**.

When it started, the WWW was a way for scientists around the world to create and share their own webpages.



First Logo of the World Wide Web



The language of a webpage is HTML

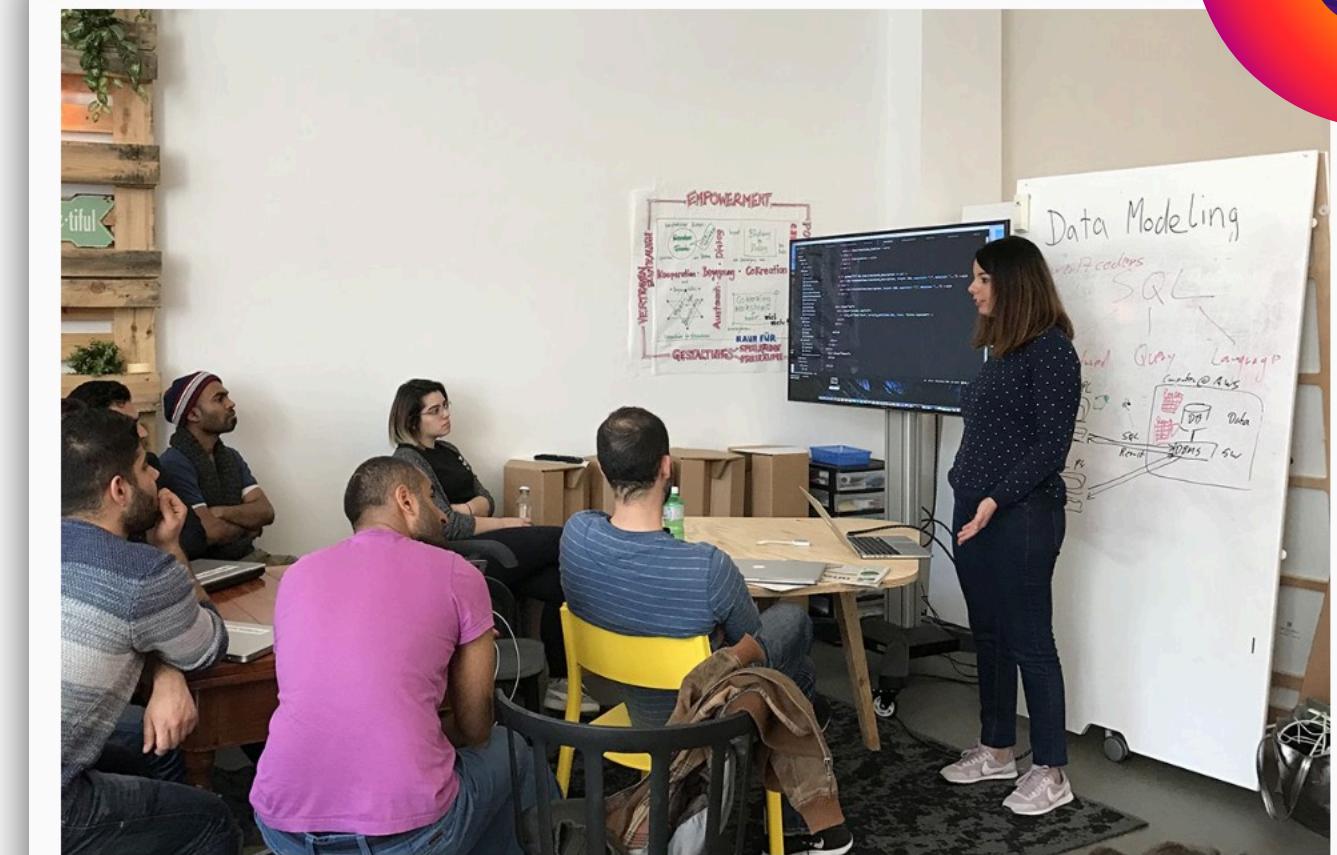
HTML allows you to take a plain text document created in any simple text editor....

Learn 21st century skills

We teach relevant 21st century skills, like digital literacy. In our programs you learn to create with code. Our classes cover programming, design and competencies such as critical thinking and creativity.

Explore Programs

... and organize it into lists, link to other webpages, include videos, and more.



Learn 21st century skills

We teach relevant 21st century skills, like digital literacy. In our programs you learn to create with code. Our classes cover programming, design and competencies such as critical thinking and creativity.

[EXPLORE PROGRAMS](#)

HTML

What does HTML stand for?

HTML stands for **HyperText Markup Language**

Hypertext

Overcoming the constraints of written text. *Interactive*

Markup Language

A way to literally “Mark Up” a document to specify attributes, like different font sizes, lists, links to other webpages and images.

HTML is written in text files

We write a bunch of HTML into a file (aka. document) so we can send it around.



myhomepage.html

Name of the file



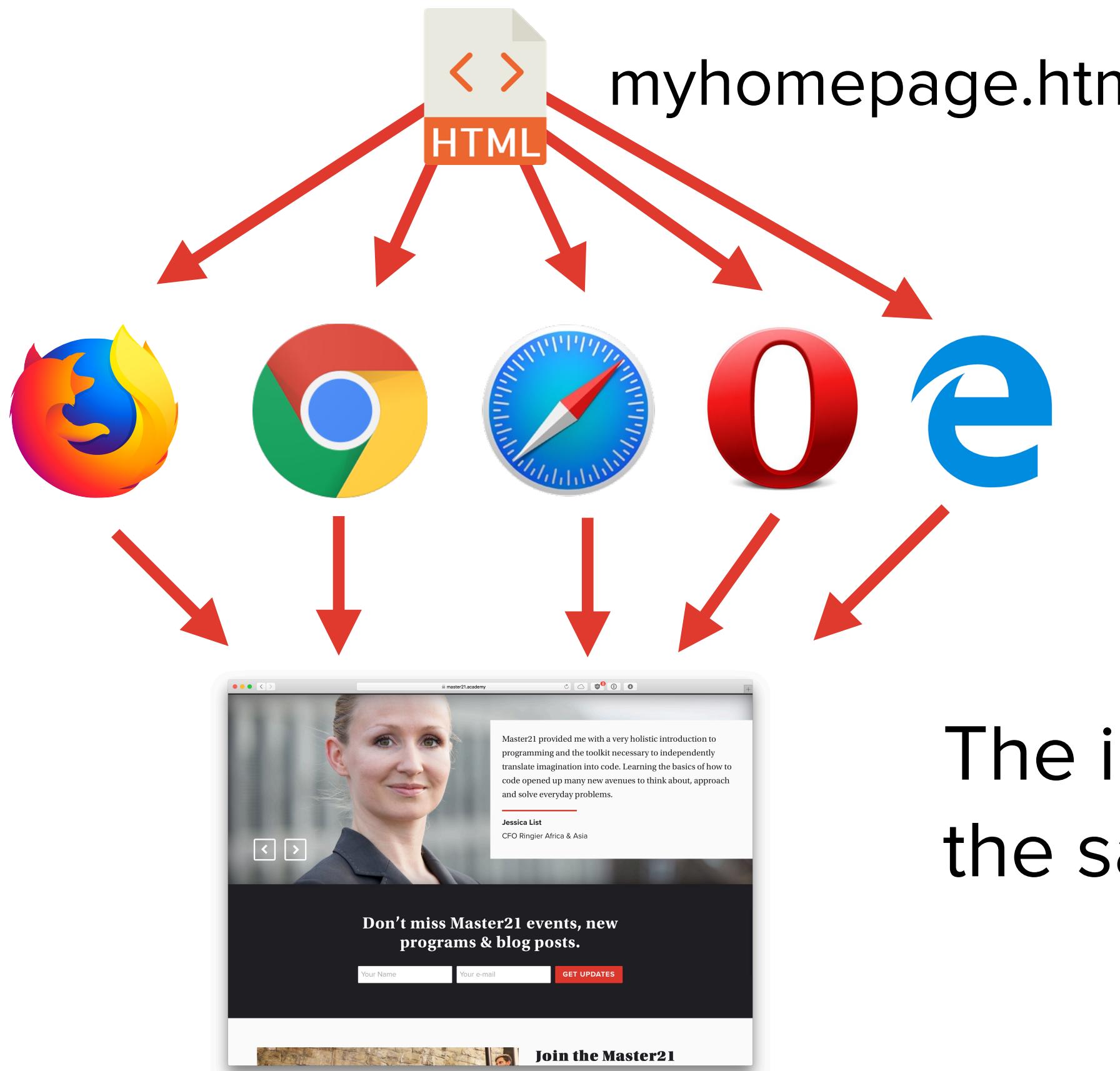
File extension

(tells the browser the file contains HTML)



Browsers can display HTML files

Web Browsers are basically “HTML Readers”
They understand how to read HTML and display it for you.



The idea is that they all display
the same thing (hopefully).

HTTP

What does HTTP stand for?

HTTP stands for **HyperText Transfer Protocol**

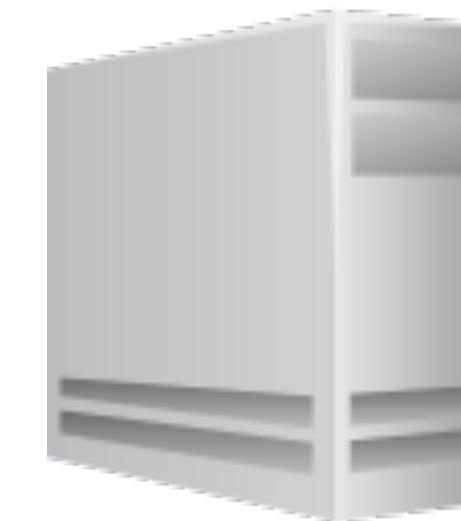
Transfer Protocol

An agreed-upon method (a protocol) for transferring hypertext documents around the web. While “hypertext documents” are usually just HTML pages, the protocol can also be used to transfer images, or any other file that a web page might need.

How HTTP works



HTTP request: could I please have
the file **/home.html**?



HTTP response: I found
that file. **Here is a copy.**

www.master21.academy



home.html

Websites are just document copies that we receive!



How HTTP works



HTTP request: could I please have
the file **/hardtofind.html?**



HTTP response: error
#404; I can't find that file

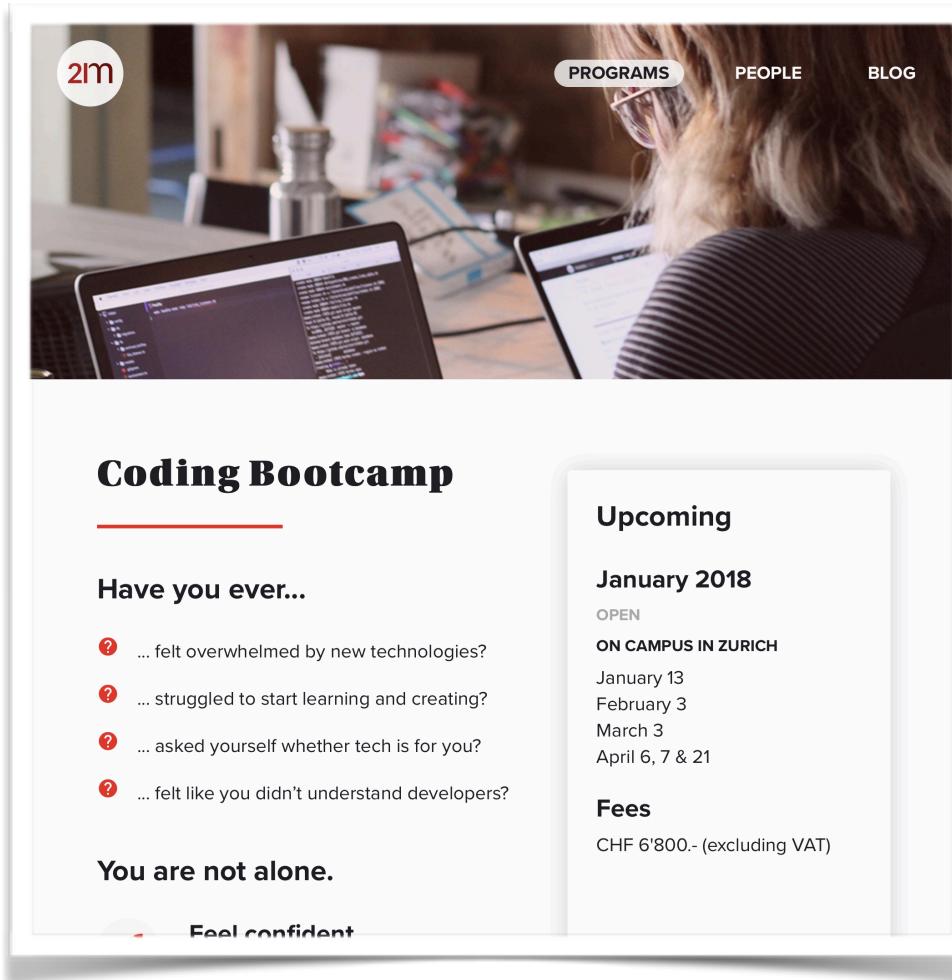
URL

What does URL stand for?

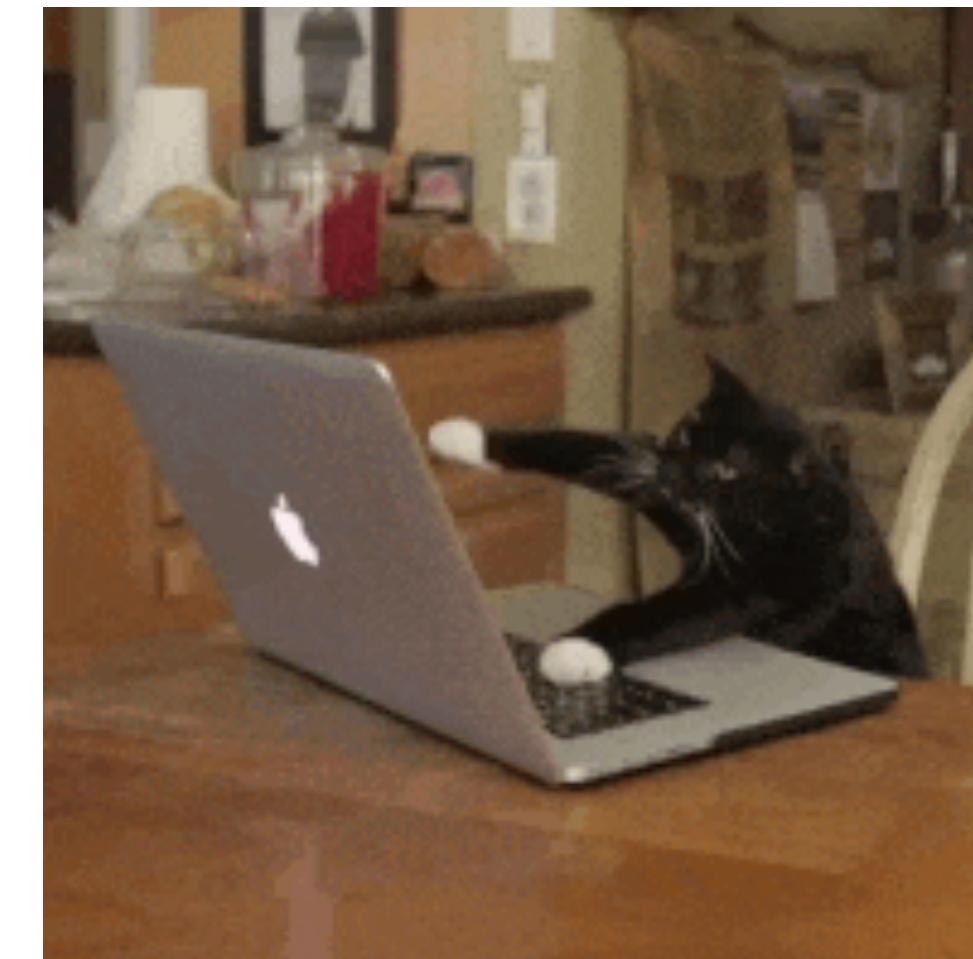
URL stands for **Uniform Resource Locator**

Also termed web address

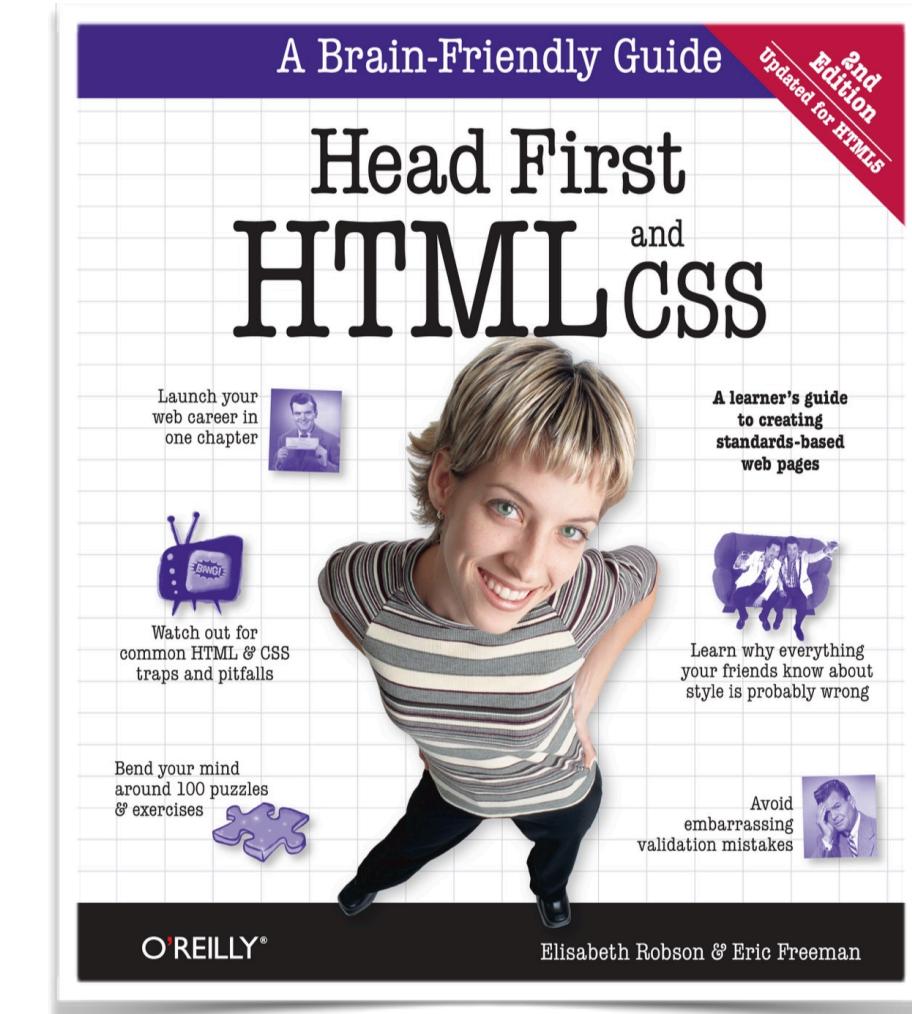
A URL can be used to identify any resource on the Web.



<https://master21.academy/programs/coding-bootcamp>



<https://m.popkey.co/d2dce5/MwbyL.gif>



<http://master21.s3.amazonaws.com/part-time/videos/Book.pdf>

Recap.

- **HTML** stands for?

★**HyperText Markup Language**

(The Documents that we send around)

- **HTTP** stands for?

★**HyperText Transfer Protocol**

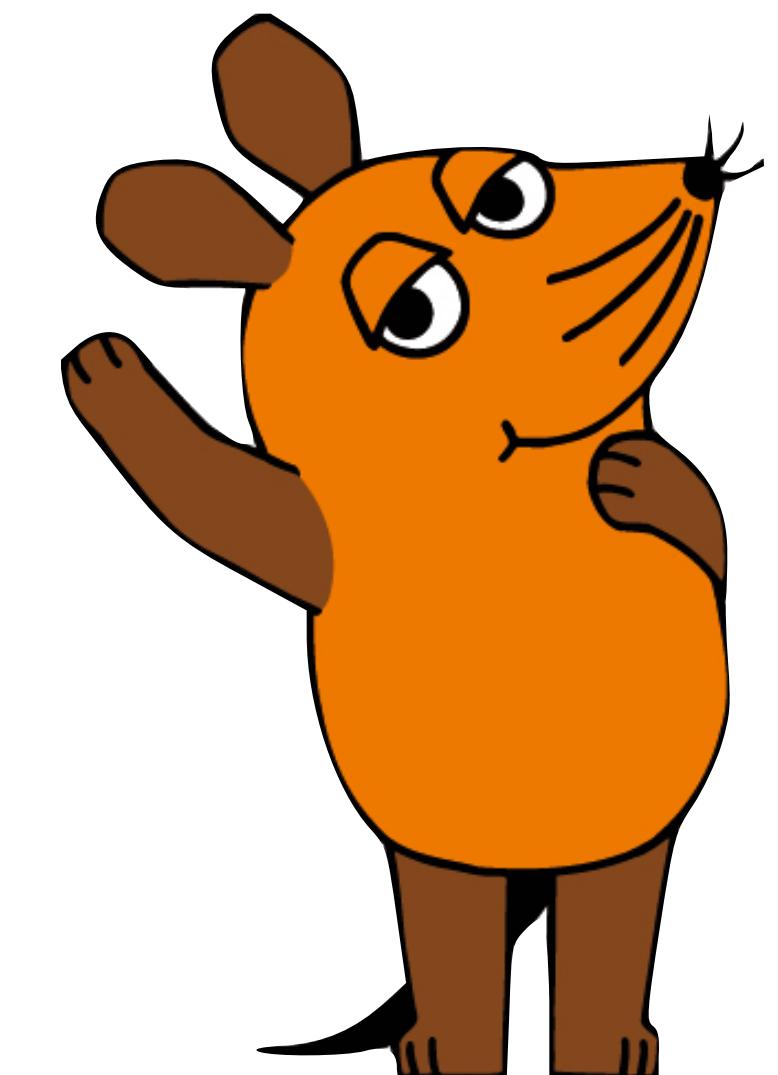
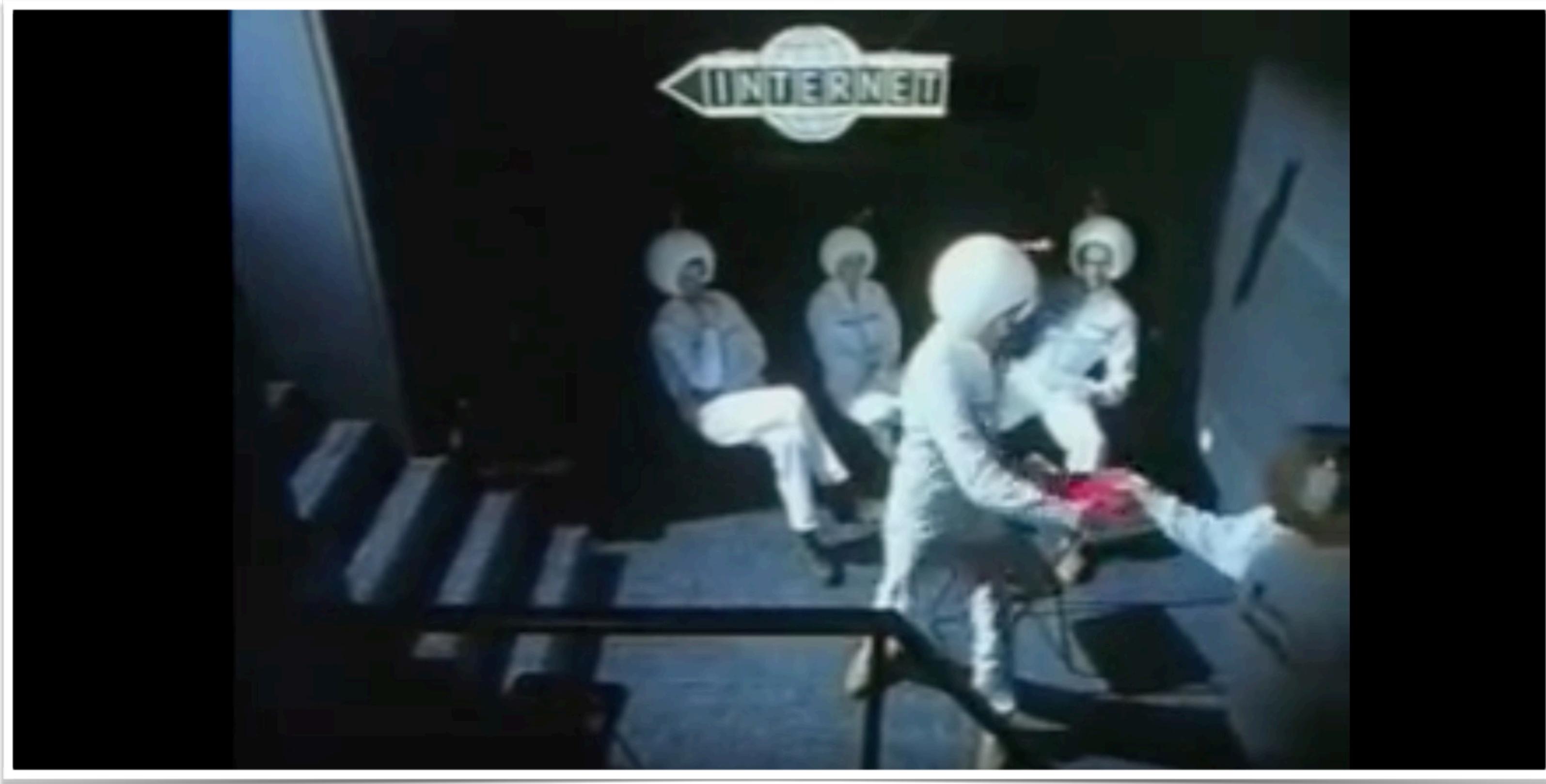
(How these documents are send around)

- **URL** stands for?

★**Uniform Resource Locator**

(Where specific resources are located)

Recommended Video



<https://www.youtube.com/watch?v=8PNRrOGJqUI&t=314s>