## Front-End Web Development

### The Internet

#### What is The Internet?

Billions of connected devices through a series of networks

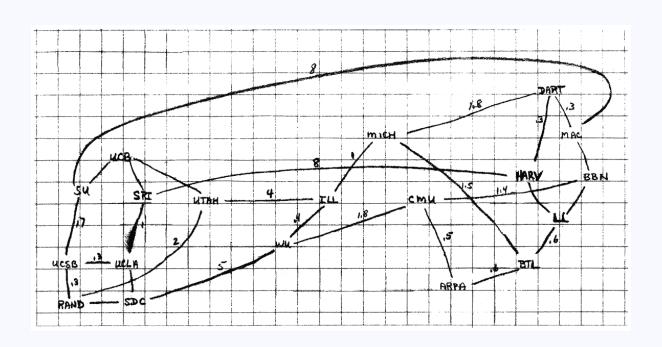
Are the internet and the web the same?

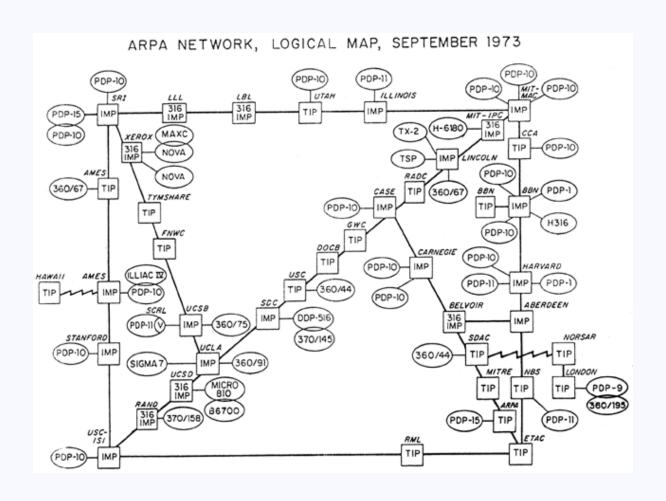
# The History of the Internet

#### Where did the Internet come from?

- J.C.R. Licklider came up with <u>'The Galactic Network'</u> (August 1962)
- ARPAnet in the 1960's for the US Government
- Vint Cerf and Bob Kahn invented <u>TCP/IP</u> in 1974
- "Enquire Within Upon Everything" was released in 1980

Then, <u>Sir Tim Berners-Lee</u> released the "World Wide Web" in 1991/1992, with <u>this site</u>



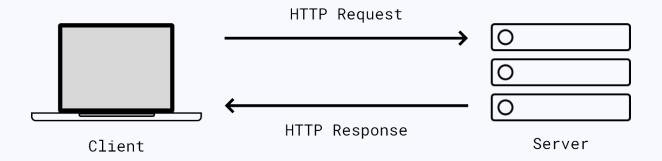


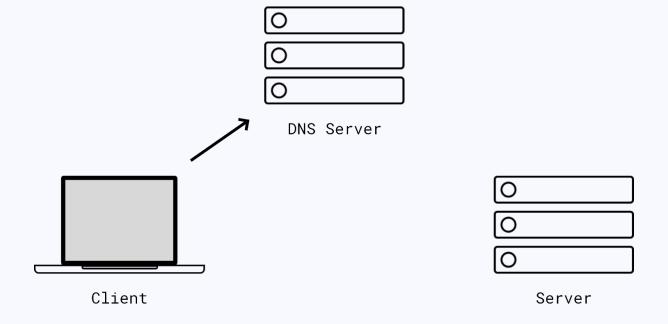
# Now, the Internet is our global village!

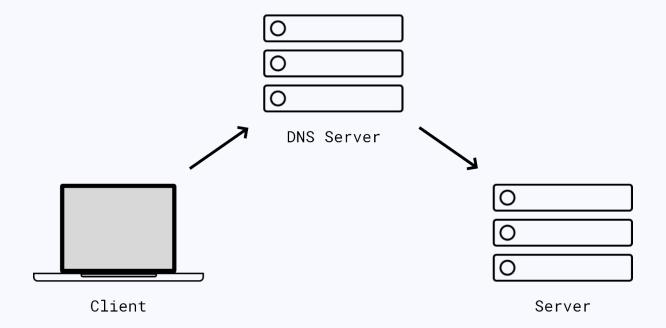
## How does the Internet work?

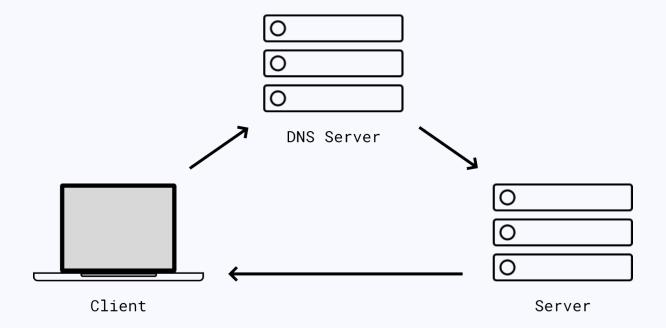
#### Resources

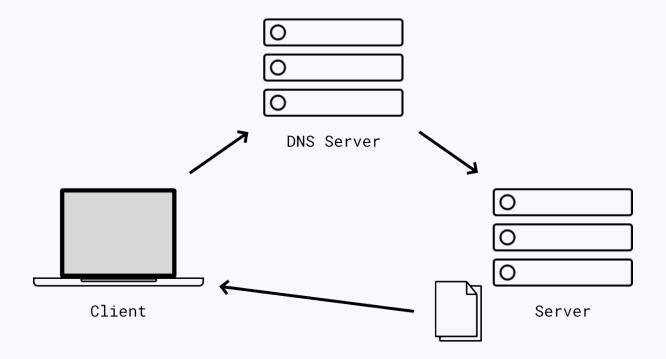
- How DNS works
- How HTTPS works

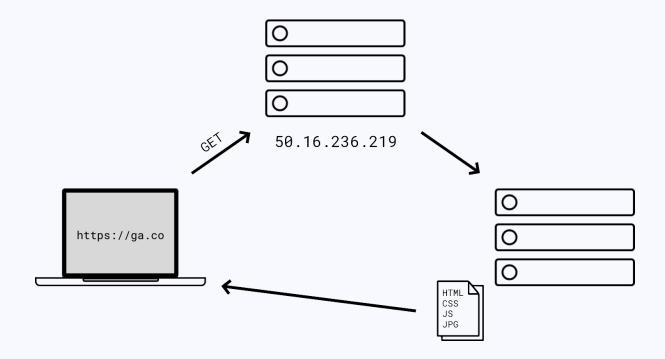












## Web Development

#### What is the Front End?

It is what the user sees

It powers the visuals and interactions of the web

Made up of HTML, CSS and JavaScript

#### What is the Back End?

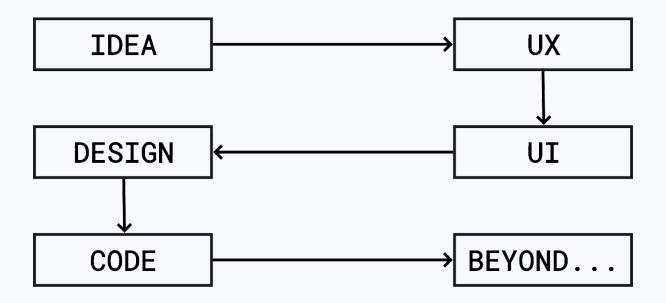
It is what goes on behind the scenes

Consists of databases, servers etc.

Lots of languages:

Ruby (Ruby on Rails), Node.js, PHP, Python, Go, C++ etc.

# An Ideal Approach



#### What does a developer do?

- Take a design and turn it into code and assets
- Use HTML to add content to the page
- Use CSS to style the page
- Add interactivity with JavaScript
- Lots of other responsibilities...
  - Accessibility, performance, browser compatibility, device differences, make things responsive, search engine optimisation etc.

## The Front End

#### The Languages

**HTML** 

Defines the content (the bones)

**CSS** 

Defines the style (the skin)

**JavaScript** 

Adds the functionality (the brain)