Intro to Web Development Section C

Technology, Culture + Society Integrated Digital Media (<3 IDM) Fall 2020 Monday + Wednesday 10:00 - 11:50 am

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On campus we are beaming in from downtown or Ft. Green, Brooklyn former land of the Lenape + Canarsie

In the chat - tell us where yr beaming in from and add a land acknowledgement!

ZOOM

Our class will meet synchronously during our class time. Attendance is not mandatory if you really can't attend. Recordings will be provided.

By now we've learned the difference between nodding smiling faces and talking to grey rectangles! You should have your camera on as much as possible. If you're concerned about privacy don't forget you can setup a **Zoom background** to obscure your surroundings, family members, pets, messy rooms, ugly wall paper, etc!

If you plan on attending class from home - or your dorm I strongly suggest you buy an **external monitor.** So you can have the Zoom meeting on one screen and your own tools (text editor, terminal, browser, etc.) on another. This will also encourage us to keep formal workspaces. Your brain is a part of your body you guys! From time to time I will turn off my camera to save bandwidth. If possible I strongly encourage you to buy a **wifi dongle** and connecting your machine directly into your router via an **ethernet cable**.

If your software crashes during class please send a message on our slack channel. When you see that someone has messaged that they were kicked out - please let me know so I can let them back in!

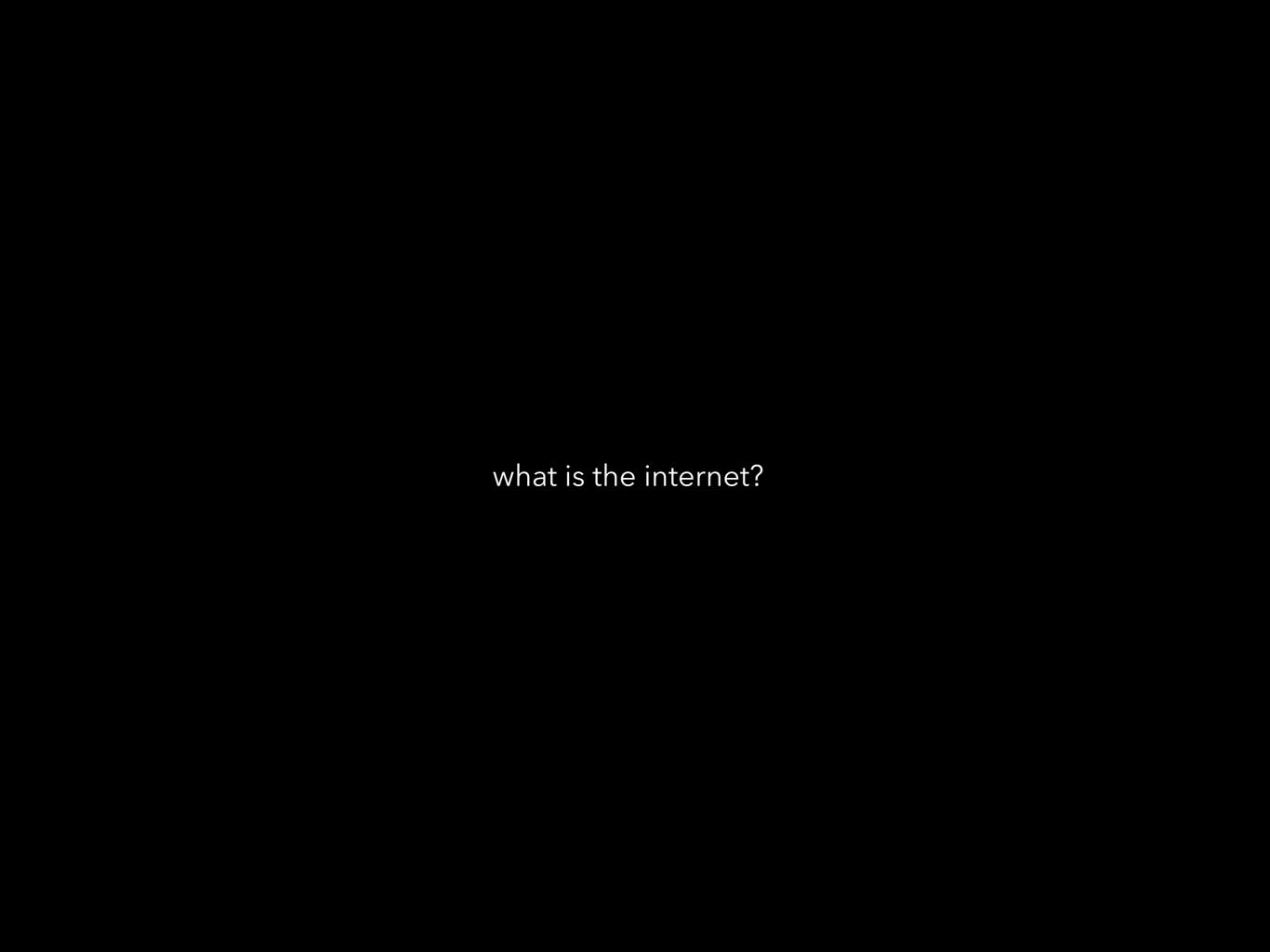
class repo: https://github.com/IDMNYU/webDev_C_Fall2020

class wiki: https://github.com/IDMNYU/webDev_C_Fall2020/wiki

class syllabus: https://github.com/IDMNYU/webDev_C_Fall2020/blob/master/week01/DM-UY_2193_C_F2020_Leopold.pdf

if you do not already have a github account:

https://education.github.com/pack



TCP/IP - Internet Protocol suite

TCP - Tranmission Control Protocol

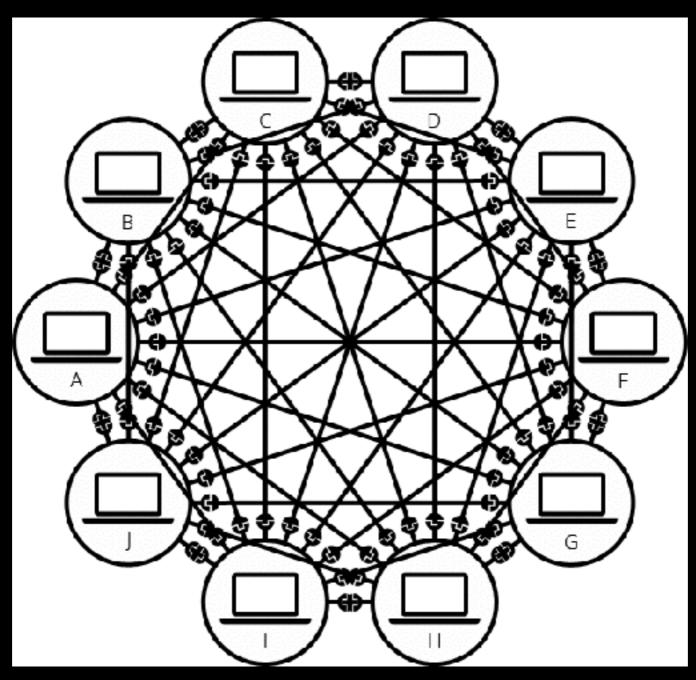
IP - Internet Protocol



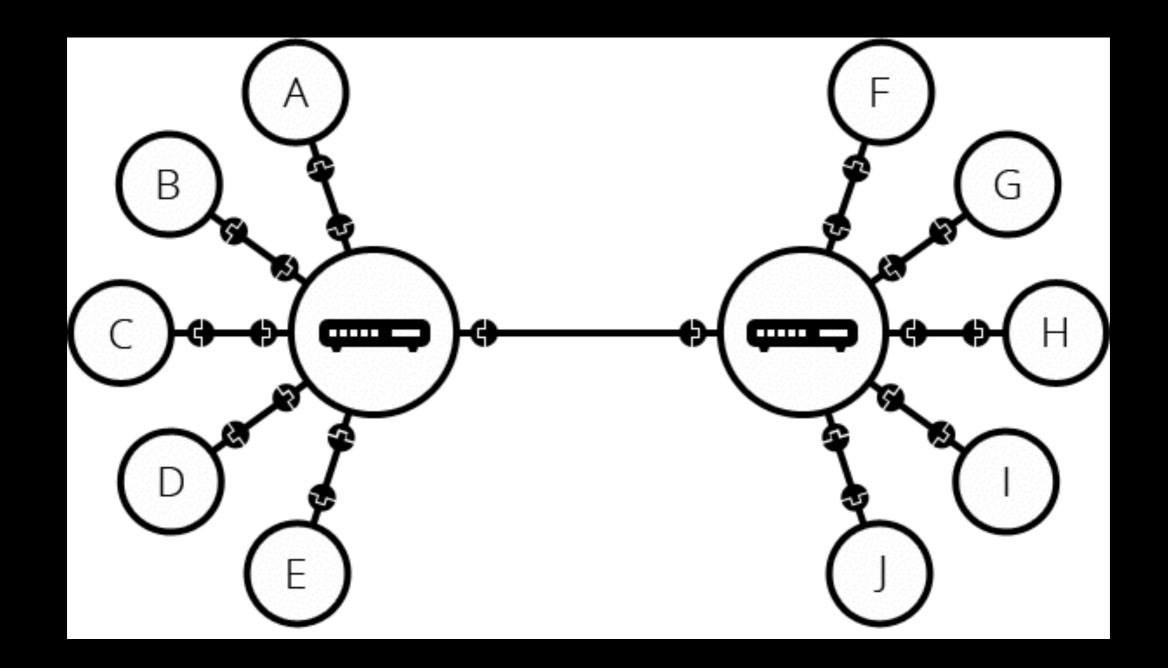
1969 - Arpanet

first message sent from UCLA to Stanford standford machine had 128 Kb of memory and 24 Mb of disk space

What is the Internet? A global network of computers connected to each other.



A networks of networks



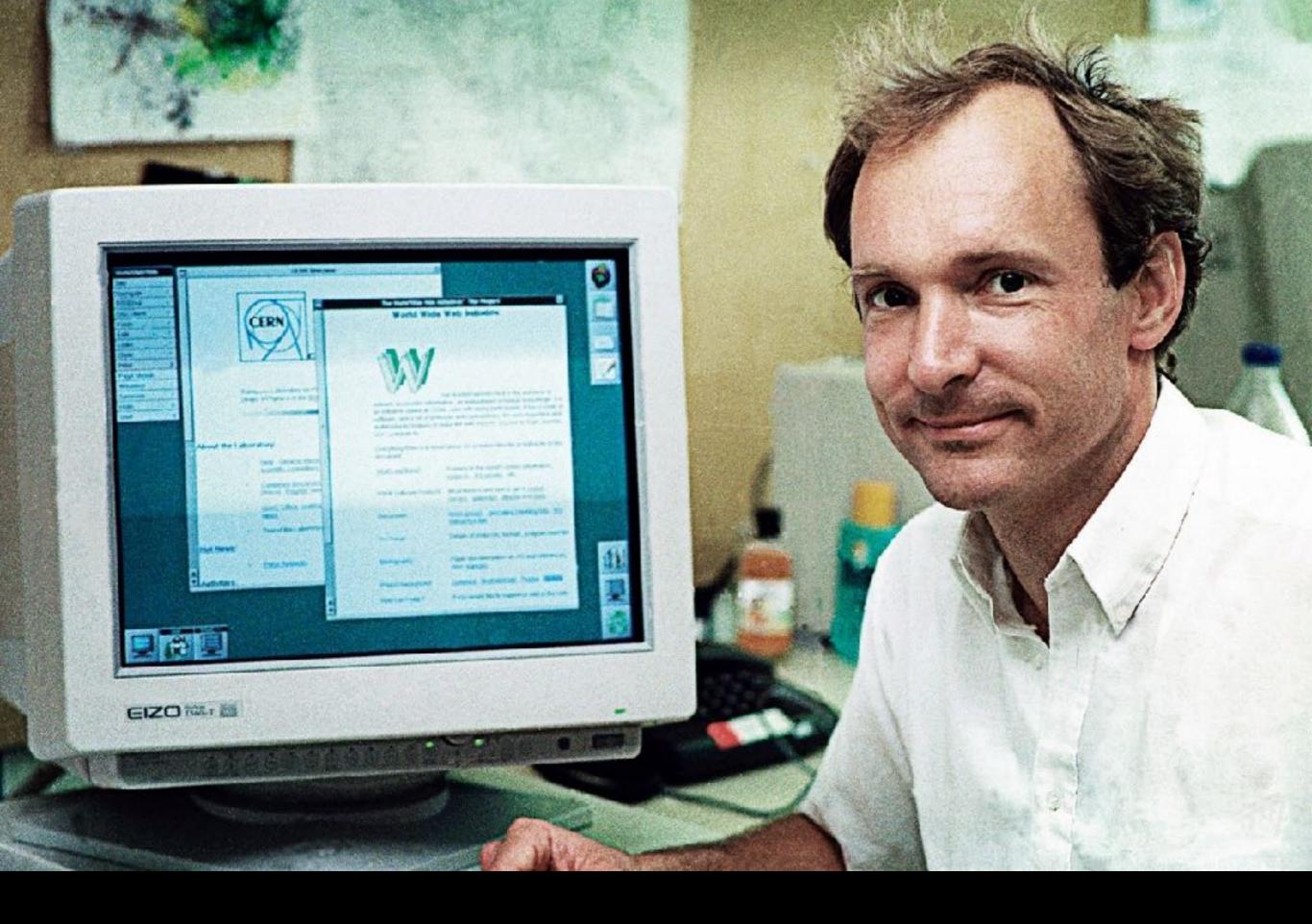
By connecting computers to routers, then routers to routers, we are able to scale infinitely.

https://developer.mozilla.org/en-US/docs/Learn/Common_questions/How_does_the_Internet_work

what is the web?

- 1. You enter a URL into a web browser
- 2. The browser looks up the IP address for the domain name via DNS
- 3. The browser sends a HTTP request to the server
- 4. The server sends back a HTTP response
- 5. The browser begins rendering the HTML
- 6. The browser sends requests for additional objects embedded in HTML (images, css, JavaScript) and repeats steps 3-5.
- 7. Once the page is loaded, the browser sends further async requests as needed.

https://wsvincent.com/what-happens-when-

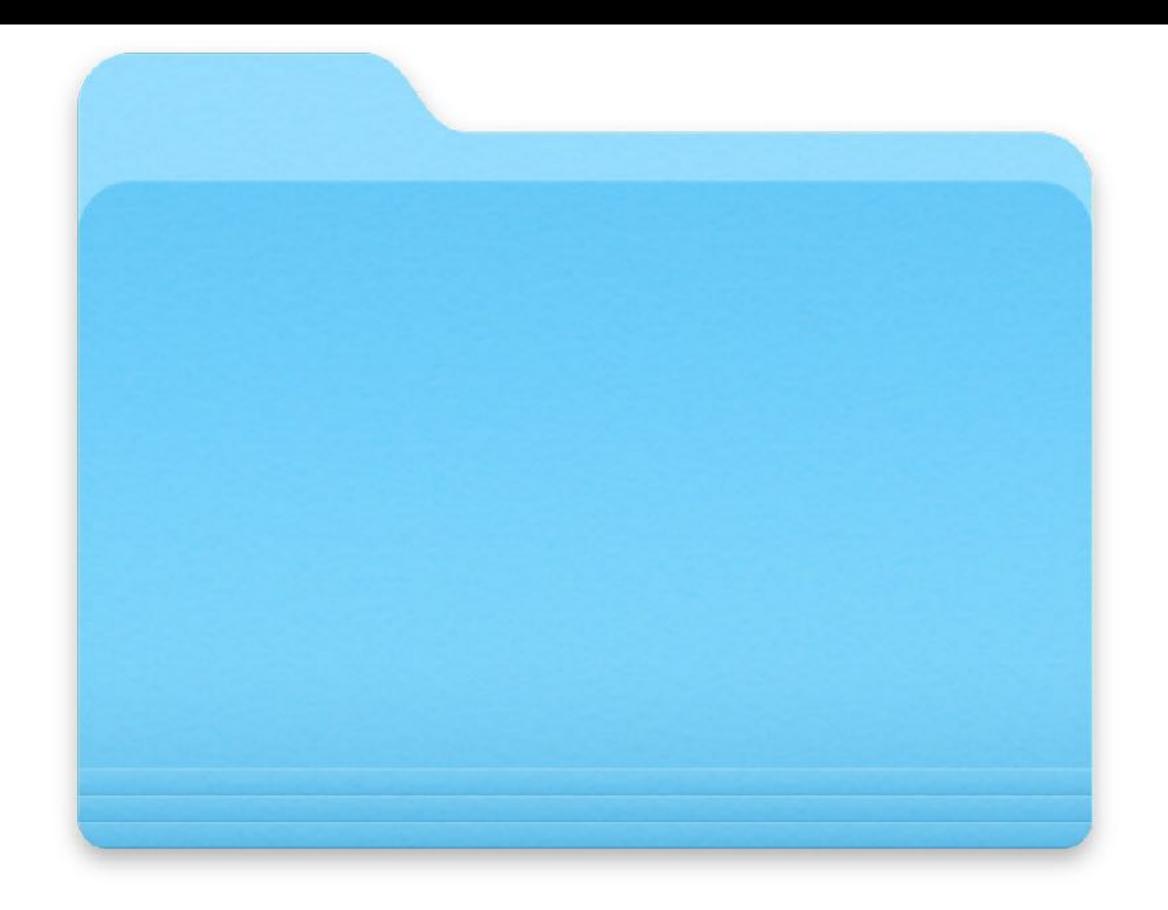


1989 - Due to the way the NeXT software was designed, **Tim Berners-Lee** is able to invents the WWW on a NeXT machine



Due to the way the computer's storage was designed, Tim Berners-Lee invents the WWW (HTTP) on a NeXT machine

what is a webpage?

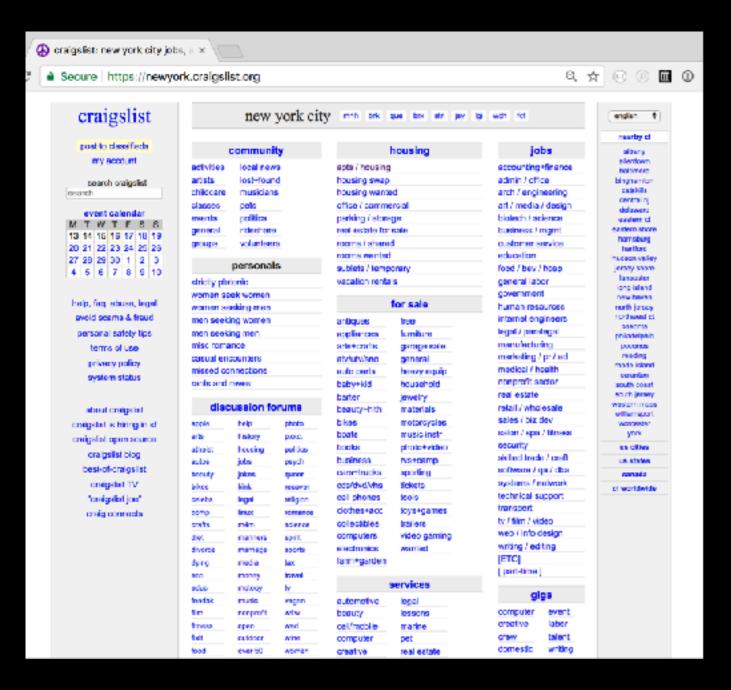


HTML



Unlike other programming languages - HTML, CSS + JavaScript were authored for their outputs to **be read or seen** by human persons on glowing rectangular screens <u>GUI</u>s.

It's the difference btw this:

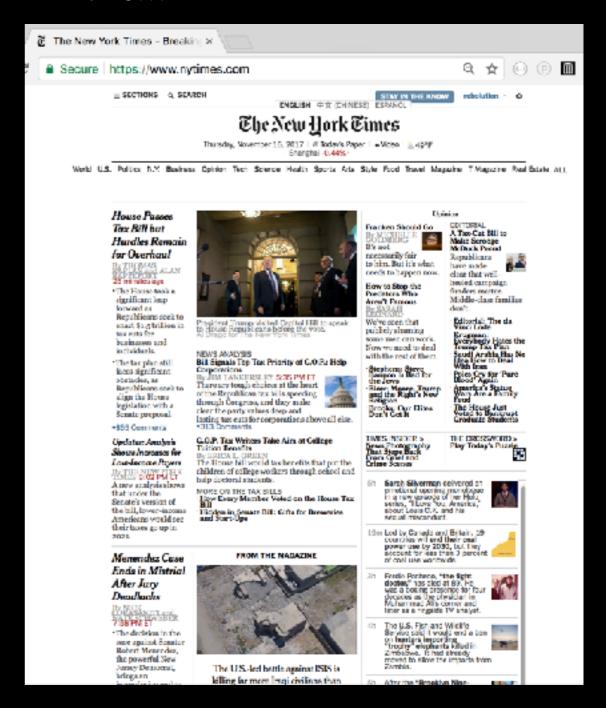


Craigslist Landing Page

HTML + CSS

(Web. 1.0)

+ this...



NY Times Landing Page

HTML, CSS + JS

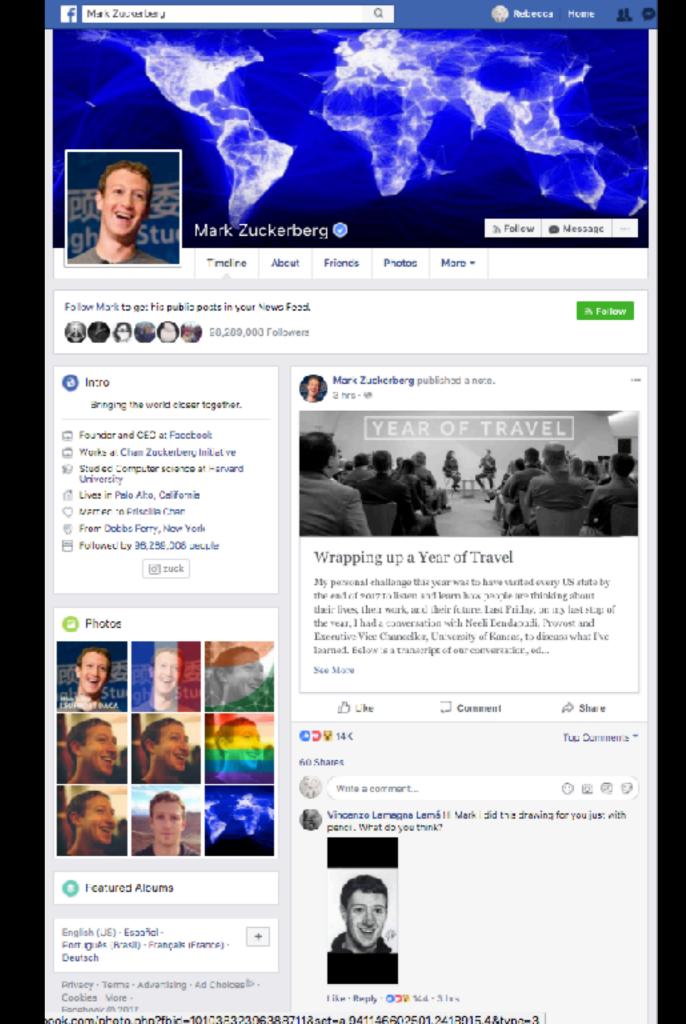
(Web. 2.0)

HTML CSS JAVASCRIPT

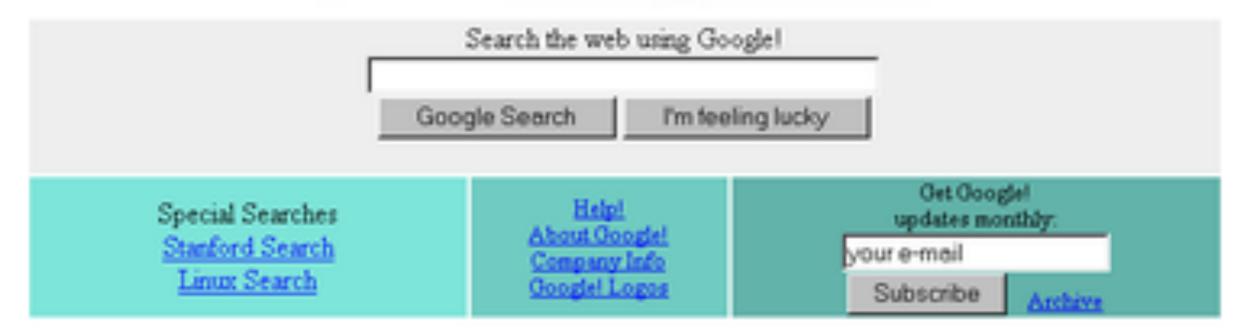
JavaScript is a programming language specifically written to work w/ HTML and CSS. It facilitates an opportunity for more dynamic web pages with interactive media content. This led us to Web 2.0 in 2004-2005 ish.

Facebook, init(): February 2004

http://www.fb.com







Copyright @1998 Google Inc.

Google, init(): September 1998 went public August 2004

DECEMBER 25, 2006 JANUARY 1, 2007

www.hime.com

PERSON OF THE YEAR

You.



00:00/20:00

Yes, you. You control the Information Age. Welcome to your world.

Youtube, init(): February 2005

You: Person of the Year Time Magazine, December 2006

A Web Page WAS:

HTML - Hyper Text Mark Up

is a grammar for structuring web pages. It defines paragraphs, headings, data tables + media elements. HTML describes the content of the page - not how it looks.

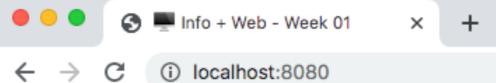
CSS - Cascading Style Sheet

rules for styling a web page. Setting colors, positioning, typeface, layout and even timing. It can be used to consider the design of your page across different platforms and screen sizes.

(Web. 1.0)

```
<!DOCTYPE html>
<html>
  <head>
     <title> Inro to CSS</title>
  </head>
  <body>
     <h1>
     This Webpage though....
     </h1>
     >
     here is a page of text. here is a page of text. here...
     <img src = "https://media.giphy.com/media/
     lYf4uAJEWVo1FffnVD/giphy.gif">
  </body>
</html>
```

html looks like this:



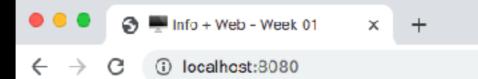
This Webpage though....

here is a page of text. here is a page of text. here...



CSS - Cascading Style Sheet

```
h1 {
     color: #FF4500
body {
       background: #000080;
       font-family: sans-serif;
       color: rgb(255,255,255);
body p {
     font-family: 'Courier New';
```



This Webpage though.

here is a page of text. here is a page of text. here...



html + css:

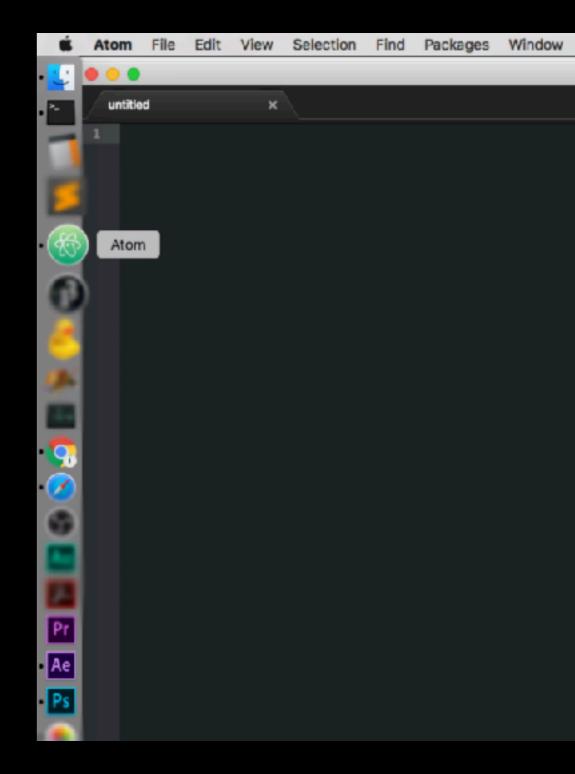
Web pages are made of three different file types. All of which we are capable of creating on our machines!

It's easier than you think...

```
.html (hyper text mark up).css (cascading style sheet).js (javascript)
```

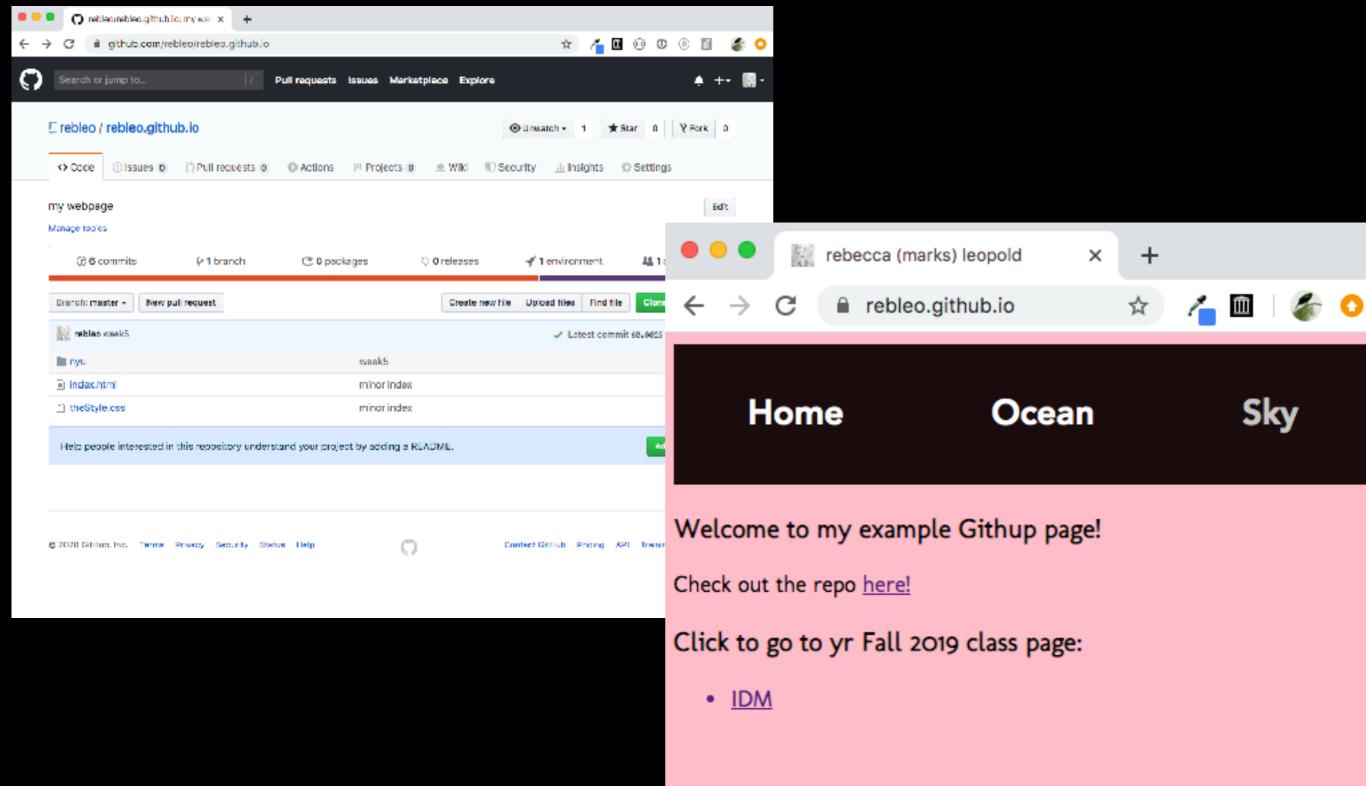
We can create + write these files with a text editor. Like <u>Visual Studio Code</u>.

Mimic a server w/ our command line And look at our work in the browser.



prototype: local http server (using our local machine as a server!!)

publish: pushed to Github Pages



github has an easy shortcut for hosting a web sites on their servers using the repo workflow.