Welcome to Introduction to HTML5

- · HTML = Hypertext Markup Language; a way of marking files so that browsers know how to display your content as a webpage
 - uses tags to distinguish between content 2 the instructions
- · browsers: Internet Explorer

Chrome Safari Edge

- · course covers proper syntax, not styling
- · focus: what HTML is & how we got from the original version to HTML5

'magic' behind the Internet & how your webpage isn't just one file, but many pieced together
by your browser using the Response/Request cycle
Syntax behind the tags

syntax behind the tags
semantics behind the tags
getting your page on the web

learning outcomes: Syntax & semantics

accessibility
getting started

The Evolution of HTML

- · HTML: a way that browsers can translate documents into viewable webpages
 was intended to facilitate many different content types
- · . html files open in internet browsers
- HTMLI (1990): a way to electronically connect documents via hyperlinks -> a `web' of connections
- · Mosaic (1993) = first graphical browser
 - started arguments: pioneers ightarrow content based vs. innovators ightarrow pictures layout too
 - caused the internet usage to BOOM!
- · browser wars: Netscape, Internet Explorer, etc challenged Mosaic
- proprietary tags = tags that would only work on their (a certain browser)
 - -> (eg. <marquee>): scrolling text
- other (non-proprietary) tags:

<center>

- went against the spirit of HTML
- designers wrote nonstandard code to force browsers to do what they wanted
- incompatibility issues \rightarrow "Best viewed on" messages
- proactive groups of the internet: Internet Engineering Task Force (IETF)

- focus on now different networks Should collaborate
World Wide Web Consortium (W3C)

- deals w/ HTML: evolution of HTML 2 tags & browsers to un/support The web Accessibility Initiative (WAI)

- ensure people accessing the web have the same ability to view content

evolution of browsers:	HTML was simple, content was primarily text-based	(1990-94)
	Mosgic emerges w/ images & Internet Boom!	(1993)
	Cross-browser compatibility falls apart	(1995-99)
	Browsers move toward separating content from style	(2000 - 05)
	Using HTML files w/ css becomes the new standard	(2005-08)

EVOLUTION OF HTML: 1993: developed by Tim Berners: Lee to link document (HTML 1.0)

1995: developed by IETF RFC to include stylized text & tables (HTML 2.0)

1996: CSS 1

1997 developed by W3C & included browser specific features (HTML 3.2)
1997 a move back to normalizing pages across platforms (HTML 4.0)

1998 · CSS 2

1999 introduced different document types

2012 back to HTML & multimedia & semantics tags

(HTML 4.01) (HTML 5)

CHIMLS: A COOPERATION between W3C & the Web Hypertext Application Technology Working Circup (WHATWG)

T established guidelines: new features should be based on HTML, CSS, the DOM, & Javascript
reduce the need for external plug-ins (eg. Flash)
more mark up to replace scripting
device independent

- new standards are written to handle new requirements & browsers adopt the new standards

How It Works

How It Works: The "Magic" of Page Requests

- request-response cycle = what happens when your computer (client) requests a page & the server responds w/ the appropriate files
 - typically requires multiple rounds of communication between the client & the server
- · clients = machines for personal use (eg. phones, laptops, etc); (ideally) always connected to the network
- · servers = machines that hold shared resources
- · LAN = Local Area Network

-> (eg. office building)

WAN= Wide Area Network

 \longrightarrow (eg. university)

 \rightarrow (eg. the Internet): the largest WAN

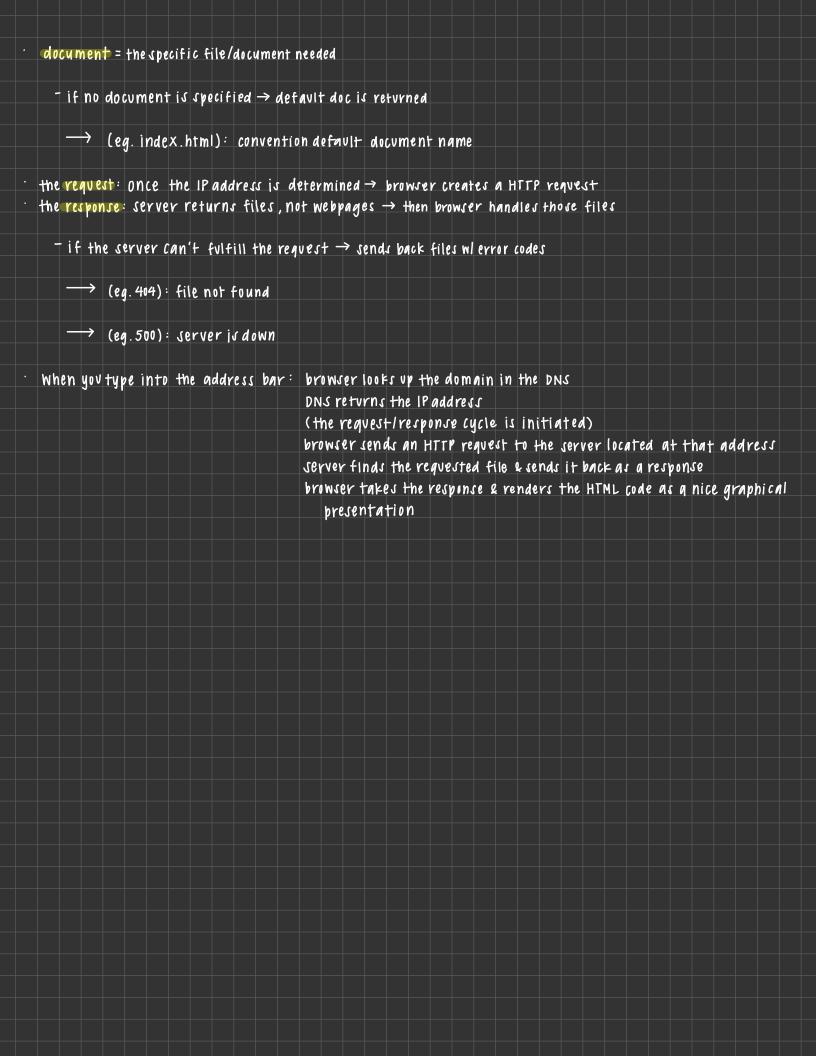
- · URD = uniform Resource Locator
- · Components of a URL: protocol
 domain
 document (optional)
- · protocol = how to connect

(eg. HTTP) = Hypertext Transfer Protocol

 \longrightarrow (eg. HTTPS) = Secure Hypertext Transfer Protocol

→ (eg. FTP) = File Transfer Protocol

- domain = the server
 - -> (eg. google.com): domain name > google; top level domain > .com
 - -> (eg. wikepedia.org): domain name -> wikipedia; top-level domain -> .org
 - domain name = identifies the entity you want to connect to
 - top level domain: determined by Internet Corporation for Assigned Names 2 Numbers (ICANN)
- · every single client needs its own IP address
- · DNS = Domain Name Server; will look up IP address based on the URL typed in



Tools & Tips

Looking at Your Browser Options

- · test site on multiple browsers
- http://www.html5accessibility.com/

Treviews accessibility of browsers

browsers should support: keyboard functionality

HTML5 tags

features for assistive technology

Editors: How to use an editor to create a HTML file

decide on: organization

naming convention

- dash-names

- Camel Case

an editor

troubleshooting:

-> (eq. browser shows tags): check that file extension is .html

-> (eg. weird characters): type code by hand> copy 2 paste

starter code: doctype

head tags

body tags

Q. html5 tags have the same semantic meaning, regardless of the browser being used

Q. font breaks the tenet of the separation of content 4 layout

Q. Arpanet was the predecessor of the internet