**8/21/18 (Class Notes)**

* How the internet works
  + User
    - Living things
    - People using the internet
  + Client
    - Traditionally websites were only made for desktops
    - Then it was designed for laptops
    - Then the iPhone came around and then websites were being designed for smaller phones
    - Then iPads and tablets
    - More and more design platforms means more things are connected
    - These are the things that allow interaction with the internet
  + Network (the cloud)
    - The communication highway between the client and the endnote (where are you trying to reach to)
    - Routes a call to a friend
    - Used to be a physical person making that connection
  + Server
    - At the end of the node (when you reach the person you’re trying to call)
  + Datastore
    - Basically a giant excel sheet that keeps track of all the data on the internet
    - This data is stored away so that when you come back to access something on your phone, the datastore can remember things like what posts you’ve liked, what settings you’ve changed, etc.
* “The cloud”
  + Brings together all the decentralized data that is all over the place so that people can access it
* History
  + The internet stared with the idea of Arpanet
    - It was a network that could send information back and forth
    - Wires connected each of these places
    - It was insanely slow
  + Then came the Ethernet and Domain Name System (DNS)
  + IP address was created to make it easier to find a web page (it’s like the webpage’s phone number)
* WWW vs. the Internet (they are two separate things)
  + The World Wide Web is all the data, all the information, all the posts, and all the stuff that composes our day to day experiences
  + The Internet is all the physical connections, all the hardware, all the background stuff that allows us to post, share, and consume data online
* HTTP
  + Hyper text transfer protocol
  + Structured text that uses logical links between nodes containing text
  + Allows the browser or device to send a message to a server
  + The reason a website looks different on your phone versus your computer is because developers create a different http for each
    - It allows you to send messages to tell what kind of browser you are using
* FTP
  + Allows transfer of a file from a client to a server
* Whenever you do a request on the internet, there is always lots of background work going on to get you there
* URL
  + The address to the server
  + Uniform resource locator

**8/23/18**

* Front-end development
  + The person who sits and writes the html, CSS, or java script
  + Html
    - Organizing of the page, structure
    - Not a programming language, but a mark-up language
  + CSS
    - Makes things look pretty
    - Adds style and presentation
    - Not a programming language
  + Java script
    - Helps with functionality
    - A programming language that was developed to create dynamic websites
    - Helps determine behavior
* These three come together to make the entire website
  + They are combined into a file that makes sense to a regular viewer
* UI and UX Design
  + App design
  + Web design
  + Museums/physical design
* Websites to check out!
  + AWWWARDS
  + 2018 Webby Awards
  + 2017 Awwwards Web Design trends
  + 2018 behance web design trends
* First website
  + Built at CERN
  + First put online in 1991
* Basic tag
  + Open tag and closing tag
    - Sandwich a letter or word that produces a command
    - Opening tag
      * Ex: <p>
    - Closing tag
      * Ex: </p>
  + Usually written with an opening tag, followed by text, followed by a closing tag
* Basic structure
  + We refer to the relationship as parent to child
  + Newest html is html 5
  + Start with naming the html 5
    - < DOCTYPE HTML >
  + Then comes all the html tags (the outermost tags in a document)
    - All other tags live within the html tag
    - Opening🡪 <html> and closing 🡪 </html>
  + One head and one body within each html
    - Children of the html tag
    - They sit on their own level
    - You should never have more than one html tag, one head tag, and one body tag per document
  + Tags within the head preprocess information
    - These things will never be visible to the user (except the title tag)
    - These tags are mainly used within the browser to do things
      * It’s preprocessed inside the browser
  + Tags within the body
    - All the information and content that the user will see and experience
    - Subsequent tags underneath

**8/28/18**

* All tags we talk about from here on out with either go in the head or the body
* <head>
  + Can include tags for CSS, javascript, keywords
* <body>
  + Defines the document’s content
* <h1>
  + Header tag (go within the body tag)
  + Bolder and bigger than paragraph
  + Has a hard RETURN after it no matter what tag follows (so that the header is on its own line)
  + As you go on (h1, h2, h3, h4…) the headers get smaller and smaller
    - Only goes to h6 cause the h7 tag doesn’t exist
      * If you write an h7 tag, it puts the text in regular paragraph tag style
* <p>
  + Paragraph tag (go within the body tag)
  + Share the same paragraph style as header tag (left aligned, same type of font)
  + This is the automatic default style if you write a tag that doesn’t exist
* In line tags
  + Might have character or paragraph styles but in line with text
  + <br>
    - Creates a break in text within a paragraph tag
    - Basically like hitting the enter key or return key on a keyboard
* <i>
  + Italics tag
  + Wrap directly around the text you want to italicize
  + Visually there is no difference between this and the <em> tag for emphasize
    - But it operates differently
    - This is used for people who are visually impaired
    - This tag is preferred over the <i> tag because it serves as a double duty (styling and a point of reference for a screen reader)
* <b>
  + Bold tag
  + Wrap directly around the text you want to make bold
  + Visually there is no difference between this and the <strong> tag
    - Used for people who are visually impaired
    - This is preferred over the <b> tag
* <ol>
  + Ordered list tag
  + <li>
    - List tag that goes within it
  + Indented from the side with numbers based on the order it’s typed
* <ul>
  + Unordered list tag
  + Style with the list tag is a glyph (big bullet)
  + Still puts in the order you write it
* You can nest lists within lists (ordered and unordered)
  + Like indenting bullets underneath each other
* <address>
  + A specific tag for addresses
  + Don’t use this in place of an italics tag even though it adds the italics style to it
* <blockquote>
  + Sort of like a pull out quote
  + Indented and in italics
  + If you add something inside the tag like <blockquote cite= “Wikipedia.com”>
    - This is to cite a reference but does not show to the viewer (done behind the screen)

**8/30/18**

* <table>
  + Table tag
  + Good for organization in multiple rows and columns
  + <tr>
    - Table row
  + <td>
    - Table column
  + <th>
    - Table head
    - Gives a title to the columns
    - Have to write them in the order you want them labeled from left right
* <a>
  + Absolute link tag
  + Needs an href tag inside
    - (href=“<http://www.google.com>”>Click here to visit google.com)
  + this is how you tag an image from the internet
  + Unless you add a break between a tags, they will all always be in line together
* The index.html is always the first reference page for building a website cause the server can recognize that name universally
  + The server can find the file and load it into the browser
* Multi page documents always need to be able to return to the home page
* Always get pictures from Creative Commons
* <img>
  + Image tag
  + This is how you link an image within your computer (something you have saved in a folder or on your desktop, etc.)
  + Doesn’t have an end
  + Has to have src within it to link the picture
  + <img src=“<http://c5.lion.jpg>”>
  + Images tend to be in line tags
  + You have to add a break tag above the image if you want it to sit under text
  + Add width=“200” after the link to the image inside the img tag to change the size or you can add height=”200” after the link to change the height
    - Either way, if you just use width or height, the ratio of the image is constant
    - If you use both at the same time, then it forces the image to be a certain size and it will distort the image

**9/4/18**