Intro to HTML

CS 130:

Tools and Technologies of the World Wide Web Spring, 2022

Announcements

- 1. Tutorials start today (right after this class)!
 - a. Sign up for a section (if you haven't already)
 - b. Times and locations <u>here</u>
- 2. Assigned readings:
 - a. Intro to HTML (for today)
 - b. <u>History of the web / internet</u> (for Monday)
 - c. <u>Intro to CSS</u> (for Wednesday)

- 1. Intro to HTML
- 2. Rules of thumb
- 3. Linking to resources
- 4. Activity

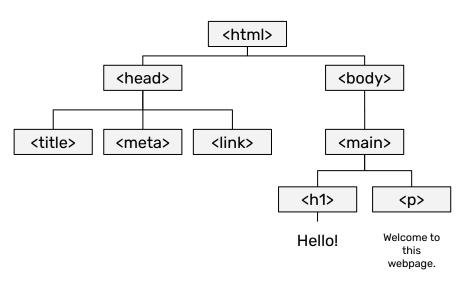
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Intro to HTML (Hypertext Markup Language)

HTML is a way of creating web documents using "markup tags"

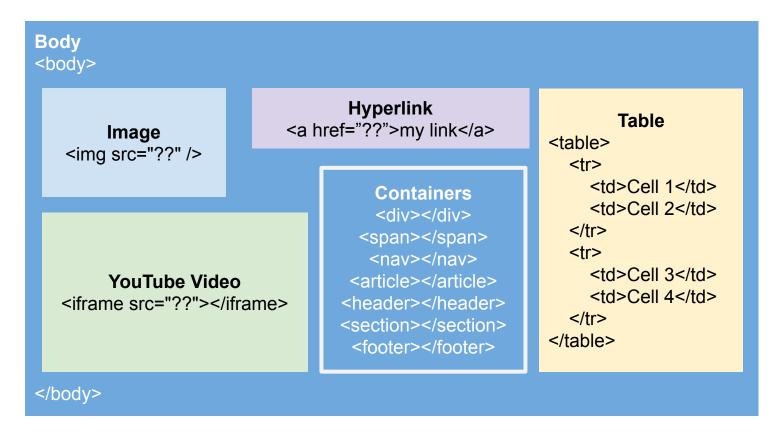
- Each HTML tag has a set of rules that you have to follow to correctly use the tag.
- Sometimes, tags need to be nested in a particular way to be understood by your browser.

How the Browser Interprets HTML



Invisible section (for metadata) **HTML File** <html lang="en"> <head> <title>DOM Example</title> <meta name="author" content="EECS 130"> <link rel="stylesheet" href="main.css"> </head> <body> <main> < h1>Hello!</h1>Welcome to this webpage. </main> </body> </html> Visible section (for document elements)

Lots of elements can go inside of the body element



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1. Avoid spaces, capital letters, and special characters when naming files

When creating new HTML files, it is important to follow the naming conventions listed below:

- No whitespace
 Rename page 1.html → page_1.html or page1.html
- No capitalization; all lowercase
 Rename Page1.html → page1.html
- 3. No special characters (',*!^%#). Dashes & underscores are OK

 Rename Jenny's Page!.html → jennys_page.html In addition, all HTML files end with either the .htm or .html file extension.

2. Most tags have an opening tag and a closing tag

```
<h1>My Title</h1>
```

But some don't:

- Images:
- Line Breaks:

- Horizontal Rules: <hr />
- Stylesheet Links: k rel="stylesheet" href="my_style.css" />

You'll eventually figure out the rules as you continue building web pages. You can also consult the <u>HTML Reference</u> to learn more about the rules of each individual tag.

3. The browser ignores whitespace

The browser ignores whitespace:

<h1>My Title</h1>

...is interpreted the same way as...

<h1> My

Title

</h1>

4. Make your code readable by indenting and using line breaks

Make your code readable by indenting and using line breaks. Please don't do this:

```
<main>Welcome, <strong>Leonard</strong>itemitem</main>
```

4. Make your code readable by indenting and using line breaks

Instead, do this:

```
<main>
  >
     Welcome, <strong>Leonard</strong>
  <0|>
     item 1
     item 2
     item 3
  </main>
```

5. Attribute syntax

Attributes are always followed by an equals sign and values are surrounded by quotation marks.

 No space between attribute, equals sign, and quotations

6. Last in, first out (LIFO)

Correct

Incorrect

```
velcome,
<strong>Leonard
</strong>
```

7. Use comments to help you understand your code

```
<!-- Welcome Section -->
<section>
   >
      Welcome, <strong>Leonard</strong>
   <0|>
      item 1
      item 2
   </section>
```

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Linking to Resources

- Linking is perhaps the biggest idea of the web: documents link together creating a "web" of networked resources.
- Many different HTML tags use the concept of linking:
 - Stylesheet references
 - Multimedia embedding (e.g. images, videos, audio files)
 - Hyperlinks
- Links can be absolute:
 https://i.pinimg.com/originals/ac/f4/9b/acf49bd0f42b441160a9363dce
 88b243.jpg
- Or they can be relative (in relation to the location of your html file):
 images/my_puppy.jpg

- 1. The Document Object Model
- 2. Rules of thumb
- 3. Linking to resources
- 4. Activity

In Class Activity

Practice with:

- 1. Text markup
- 2. Containers & semantic containers
- 3. Media
- 4. Compound tags

Specific Tasks

- 1. Add a heading and a paragraph element (hint)
- 2. Add 3 images. Two should link to images in the images folder, and one should link to an image on the internet (hint)
- Embed a YouTube or Vimeo video: (hint)
- 4. Add a list (hint)
- 5. Add a table (hint)
- 6. Add some semantic tags to give your sections meaning (hint)
- 7. If time, try to change the background color (hint: look at the stylesheet).