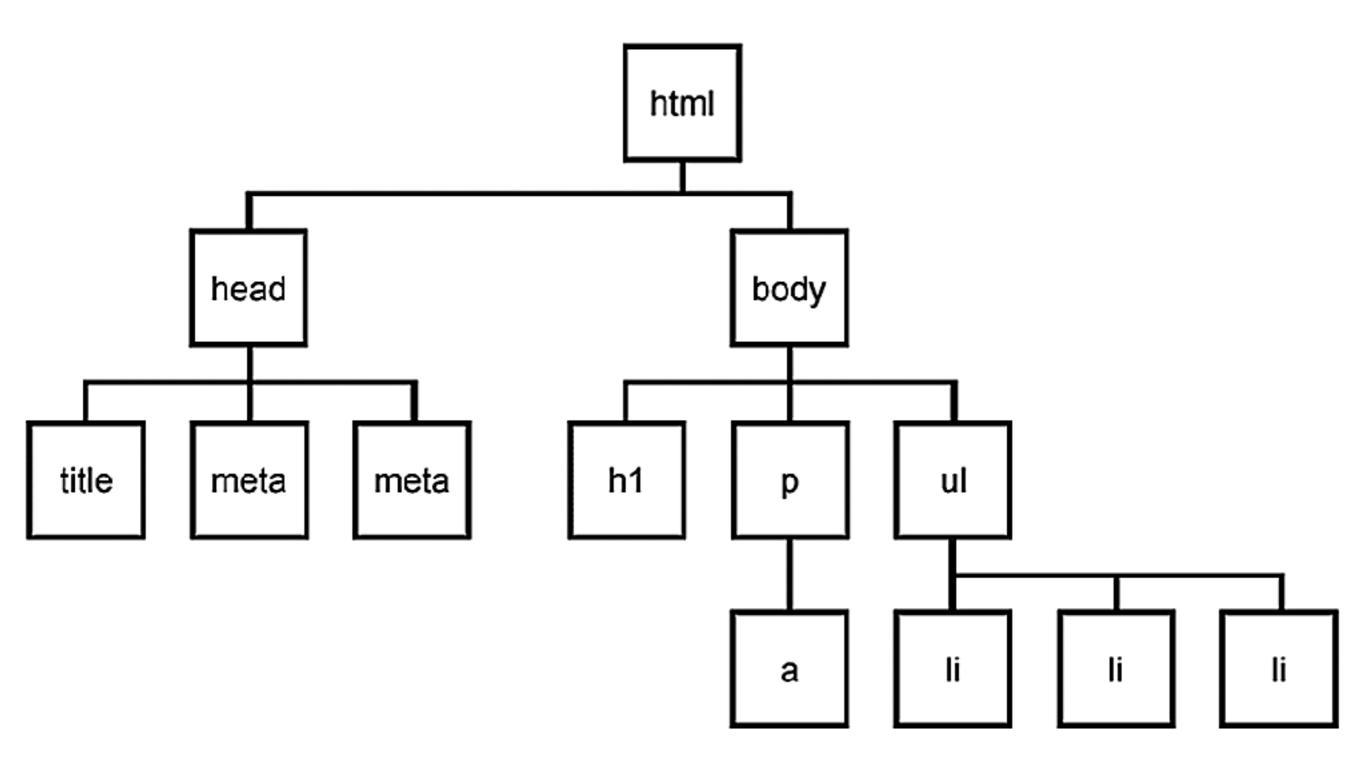
< HTML >

3 categories of HTML elements

- 1 block: large blocks of content has height + width , <h1>, <blockquote>, , ,
- 2 inline: small about of content, no height or width <a>, , ,
 a. inline block: inline content w/ height + width
- 3 metadata: information abou the page, usually not visible <title>, <meta>, <script>

Parent / Child Element Structure



Parent + Child

```
<!doctype html>
                 <head>
head is the parent of title
                     <title> Week 1 </title>
                 </head>
                 <body>
 div is the child of body
                     <div>
                     Here's a Great Site.
                     </div>
body is the child of html
                  </body>
           </html>
```

The <head> element contains
the metadata for a web page. Metadata is
information about the page that isn't
displayed directly on the web page. Unlike
the information inside of the <body> tag,
the metadata in the head is information
about the page itself.

Text tags

h1, h2, h3, h4, h5, h6 are text tags for headings

p is a tag for paragraphs

b is for bold, **i** is for italics

 is for **bold ** is for *italics*

ul, ol, li are used for making lists

ul: unordered lists

ol: ordered lists

li: an individual list tag

will break to a new line

<h1>Heading 1</h1>
<h2>Heading 2</h2>
<h3>Heading 3</h3>
<h4>Heading 4</h4>
<h5>Heading 5</h5>
<h6>Heading 6</h6>

<div>s can contain any text or other
HTML elements, such as links,
images, or videos. Remember to
always add two spaces of indentation
when you nest elements inside
of <div>s for better readability.

Semantic HTML

HTML should be coded to represent the data that will be populated and not based on its default presentation styling. Presentation (how it should look), is the sole responsibility of CSS.

Some of the benefits from writing semantic markup are as follows:

- Search engines will consider its contents as important keywords to influence the page's search rankings (see SEO)
- Screen readers can use it as a signpost to help visually impaired users navigate a page
- Finding blocks of meaningful code is significantly easier than searching though endless divs with or without semantic or namespaced classes
- -Suggests to the developer the type of data that will be populated
- -Semantic naming mirrors proper custom element/component naming

>

<h1> - <h6>

Semantic elements

<main> dominant content of the <body> element

<article> A document, page or site. This is usually a root

container element after body

<section> Generic section of a document

<header> Intro section of a document

<footer> Footer at end of a document or section

<nav> Navigational section

Use these **before** div when appropriate.

Semantic elements

<aside>

represents a portion of a document whose content is only indirectly related to the document's main content. Asides are frequently presented as sidebars or call-out boxes.

<details>

creates a disclosure widget in which information is visible only when the widget is toggled into an "open" state.

<figcaption>

represents a caption or legend describing the rest of the contents of its parent <figure>

<mark>

represents text which is marked or highlighted for reference or notation purposes, due to the marked passage's relevance or importance in the enclosing context.

<summary>

element specifies a summary, caption, or legend for a <details> element's disclosure box. Clicking the <summary> element toggles the state of the parent <details> element open and closed.

<time>

represents a specific period in time.

tag attribute value

<video src= "filepath/file.mov" alt= "this is the video" height="300"> </video>

Absolute Links direct to another server

OPENING URL WE ARE
LINK TAG DIRECTED TO

TEXT WE CLOSING CLICK ON TAG

 aboslute link

< a href — stands for hyperlink reference

RELATIVE Links

direct to a file on the same site /server

It's faster to simple direct to the file path.

```
re: Unix!!
```

if the file is in the same folder:

Homepage

if the file is in the parent folder:

Homepage

if the file is in the child folder:

Photos

id attribute: Jump to a different element on page

RELATIVE Links

direct to a file on the same site /server

It's faster to simple direct to the file path.

id attribute: Jump to a different element on page

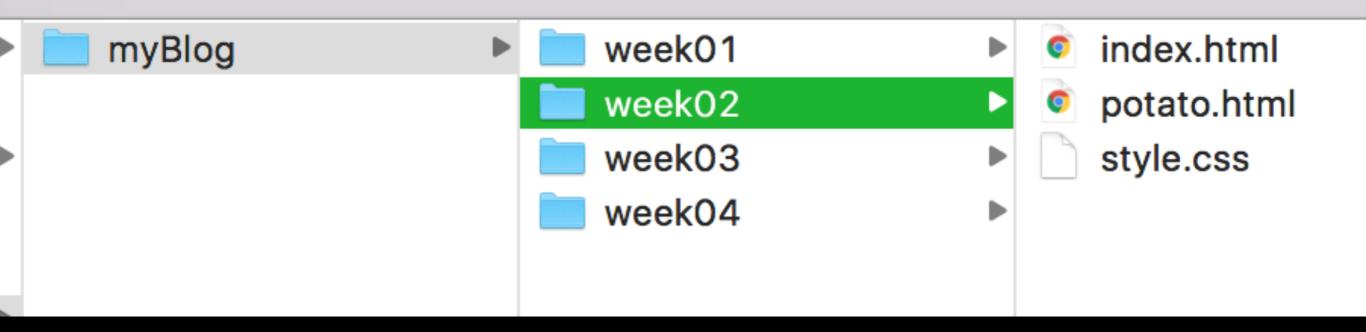
Why index.html?

Why index.html?

The main homepage of a site written in HTML (and the homepage of each section in a child folder) is called index.html.

Web servers are usually set up to return the index.html file if no file name is specified. Therefore, it's always a good idea to name your "home" page index.html

Why index.html?



The tag has a required attribute called src. The src attribute must be set to the image's source, or the location of the image. In some cases, the value of src must be the *uniform resource locator* (URL) of the image. A URL is the web address or local address where a file is stored.

Images: relative vs. ab solute url

```
<img src= "images/potato07.png" alt= "spud" >
```


The tag is for images, which can be on your local directory or on another webpage. Read all about tag here. The same goes for <video> + + audio> tags

The alt attribute, which means alternative text, brings meaning to the images on our sites. The alt attribute can be added to the image tag just like the src attribute. The value of alt should be a description of the image.

<img src="https://www.fordham.edu/
images/fordham_102907_0455.jpg"
alt="Computer Sciences" height="300">

- 1. If an image fails to load on a web page, a user can mouse over the area originally intended for the image and read a brief description of the image. This is made possible by the description you provide in the alt attribute.
- 2. Visually impaired users often browse the web with the aid of screen reading software. When you include the alt attribute, the screen reading software can read the image's description out loud to the visually impaired user.
- 3. The alt attribute also plays a role in Search EngineOptimization (SEO), because search engines cannot "see" the images on websites as they crawl the internet. Having descriptive alt attributes can improve the ranking of your site.

Like the tag, the <video> tag requires a src attribute with a link to the video source.

Unlike the tag however, the <video> element requires an opening and a closing tag.

<video /> structure



After the src attribute, the width and height attributes are used to set the size of the video displayed in the browser.

The controls attribute instructs the browser to include basic video controls: pause, play and skip.Unlike the tag however, the <video> element requires an opening and a closing tag.

The text, "Video not supported", between the opening and closing video tags will only be displayed if the browser is unable to load the video.

<audio /> structure

Some Media Attributes

Preload - what preloads when the page loads
Controls - if the play/stop buttons are visible
Autoplay - if the video should start playing
automatically

Loop - if the video should loop on completion

Attributes

If we want to expand an element's tag, we can do so using an attribute. Attributes are content added to the opening tag of an element and can be used in several different ways, from providing information to changing styling. Attributes are made up of the following two parts:

- 1) The name of the attribute
- 2) The value of the attribute

One commonly used attribute is the id.

We can use the id attribute to specify different content (such as <div>s) and is really helpful when you use an element more than once.

```
<div id="intro">
    <h1>Technology</h1>
    </div>
```

 contains short pieces of text or other HTML. They are used to separate small pieces of content that are on the same line as other content.

```
<div>
     <h1>Technology</h1>
</div>
<div>
      Wherever there's a
          <span>computer</span>, there's a skilled
          person developing, maintaining, hacking,
          advancing or simply using it.
</div>
```

<Text> input

Username:

Password input

Username: Ruta
Password

Text area

What is your favorite movie to watch?

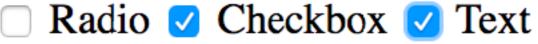
Enter your favorite.

What is your favorite movie to watch?

Enter your favorite.

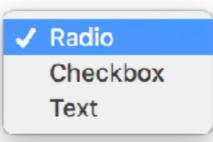
Checkbox

Select your favorite input type:



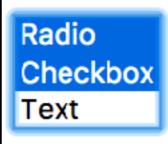
Drop down list

Select your favorite input type:



Multiple select box

Select your favorite input type:



Submit button

Are you ready to make that selection?

SUBMIT