Intro to HTML

J363 Web Design
Fall 2018

Intro to HTML

HTML and CSS

HTML — Structure and content of a webpage. (e.g., *images, text, links)*

CSS — Presentation of content (e.g., *colors, fonts, size and position of elements)*

Basic HTML Structure

Three main components

Text content - Words, headings, paragraphs

References to other files - images, video, audio, stylesheets

Markup - The HTML elements that describe your text content and make references work

HTML stands for **Hypertext Markup Language**

element

angle bracket

<p>Hello World!</p>

opening tag

closing tag

Thinking in HTML...

```
<body>

    <h1>This is a Heading</h1>

    <p>This is a paragraph.</p>

</body>
```

→

This is a Heading

This is a paragraph.

Let's practice!

Basic Structure

```html
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>

<h1>This is a Heading</h1>
<p>This is a paragraph.</p>

</body>
</html>
```

Basic Structure

```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>

<h1>This is a Heading</h1>
<p>This is a paragraph.</p>

</body>
</html>
```

Tells the browser this is an HTML5 page.

This DOCTYPE declaration should always be the first line in your pages.

Basic Structure

```
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>

<h1>This is a Heading</h1>
<p>This is a paragraph.</p>

</body>
</html>
```

Notice that tags usually occur **in pairs**.

The *html* tag tells the browser where the page begins and ends.

Basic Structure

```html
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>

<h1>This is a Heading</h1>
<p>This is a paragraph.</p>

</body>
</html>
```

<head> is loaded before <body>

<head> doesn't usually handle visible content, it contains information ABOUT the web page.

Basic Structure

```html
<!DOCTYPE html>
<html>
<head>
<title>Page Title</title>
</head>
<body>

<h1>This is a Heading</h1>
<p>This is a paragraph.</p>

</body>
</html>
```

Body = page content

Usually, if you can see it on the page, it's somewhere in the body.

HTML Elements

An HTML element usually consists of a **start** tag and **end** tag, with the content inserted in between:

`<tagname>`Content goes here...`</tagname>`

The HTML **element** is everything from the start tag to the end tag:

`<p>`My first paragraph.`</p>`

Start tag	Element content	End tag
`<h1>`	My First Heading	`</h1>`
`<p>`	My first paragraph.	`</p>`
` `		

Difference between a tag and an element?

HTML tags are the opening or closing entities. For example:

`<p>` and `</p>` are called HTML tags

HTML element encompasses opening tag, closing tag, content (optional for content-less tags) Ex:

`<p>This is the content</p>` : This complete thing is called a HTML element

Empty elements

`<img src="blueflax.jpg" width="300" height="175" alt="Blue Flax" />`

The optional space and forward slash

`<br>`
`<br/>`
        And
`<br />`
        Will produce identical results in your browser

Attributes and Values

for is an attribute of label

`<label for="email">Email Address</label>`

The value of the for attribute

What attributes do you see?

```
<img src="blueflax.jpg" width="300" height="175" alt="Blue Flax" />
```

The optional space and forward slash

Attribute-value pairs

href *is an attribute of* a

Value for href

rel *is also an attribute of* a

Value for rel

```
<a href="http://en.wikipedia.org/wiki/Linum_lewisii" rel="external"
    title="Learn more about Blue Flax">Blue Flax</a>
```

Value for title

title *is also an attribute of* a

Attribute-value pairs

Some elements only accept specific values.
We call them **predefined** values.

`<link rel="stylesheet" media="screen" href="style.css" />`

Predefined value   Not a predefined value

Parent-child relationship

```html
<article>
    <h1>The Ephemeral Blue Flax</h1>
    <img src="blueflax.jpg"... />
    <p>... continually <em>amazed</em> ... delicate <a ...>Blue Flax</a> ...</p>
</article>
```

Parent-child relationship

Important to note - if one element contains another, they must be properly **nested**.

Correct (no overlapping lines)

`<p>`... continually `<em>`amazed`</em>` ...`</p>`

`<p>`... continually `<em>`amazed ...`</p></em>`

Incorrect (the sets of tags cross over each other)

Vocab

1. Tag
2. Element
3. Attribute
4. Value
5. Parent-child

Let's practice!

Let's practice!

Once you're finished:
1) Compress the folder
2) Upload to Canvas > Participation

Homework One