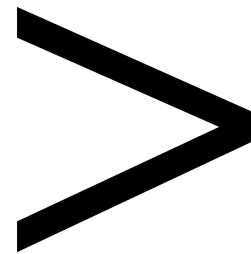
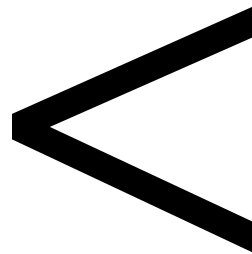


HTML

how to meet ladies

What is HTML

- Hypertext Markup Language
- Made up of 'tags' or elements
- Structured
 - Makes up the building blocks or bones of a website
- Web Browser -> Sends to request to web server -> Sends HTML to web browser -> Web browser processes HTML and displays website
- HTML5



HTML elements always live within angled brackets!

<html>

HTML elements always have an opening tag consisting of an opening angled bracket, the element being defined, and a closing angled bracket

</html>

HTML elements usually* have a closing tag consisting of an opening angled bracket, a forward slash, the tag being closed, and a closing angled bracket

*There are very few exceptions to this rule but some HTML tags do not use a closing tag. These are generally inline elements that define something on their own without additional content inside such as form input fields, line breaks, and horizontal rules.

Attribute

Value

<p title="Paragraph 1"></p>

Attributes give additional information about an element. attributes are always included in the opening HTML tag and consist of a lowercase attribute name, followed by an = sign and a value wrapped in “ ”

<html>

<body>

<h1>Important Heading</h1>

<p>A paragraph functions the same way a paragraph in a newspaper, magazine, or any written word document works. It can be as short or as long as necessary, but is usually closed once a single thought is complete.</p>

</body>

</html>

<html></html> tags tell the browser that everything inside should be read as HTML code. All html documents must include this!

<body></body> tags tell the browser that everything inside should be rendered inside the browser window. HTML outside the main body is not rendered by the browser.

<h1></h1> - <h6></h6> tags tell the browser that everything inside is a heading descending in importance

<p></p> tags tell the browser that everything inside is a paragraph or block of text

HTML Tags act like containers. They tell the browser how to interpret the content that lies between the opening and closing tags.

```
<!doctype html>
<html lang="en">
<head>
<meta charset="utf-8">
<title>Page title</title>
<link rel="stylesheet"
      href="style.css">
<script src="script.js"></script>
</head>
<body>
... <!-- The rest is content --> ...
</body>
</html>
```

HTML5 Document Structure

<!doctype html>

- The !doctype declaration is not a traditional HTML tag.
- It has no closing tag
- The !doctype declaration **MUST** be the first thing on your HTML page (before the opening <html> tag)
- This declaration tells the browser what version of HTML to use to render the page! For HTML5 this is simply <!doctype html>

Tag Attribute Value

<html lang="en">

- The <html> tag marks the start of the HTML document
- It has a closing </html> tag at the very end of the document
- The lang attribute describes the default language of the HTML page. In this case the value en tells the browser to default to English
- The lang attribute is not strictly necessary, but it's a good habit to describe defaults!

<head>

- The <head> tag marks the head of the HTML document. It has a closing </head> tag.
- The HTML head is not a traditional “heading”, but instead describes the website to the browser.

<meta charset="utf8">

- The <meta> tag is included only in the <head></head> of the HTML document.
- It describes meta information about the website to the browser.
- There is no ending tag for <meta>
- The charset attribute defines the default character encoding for the browser to render the text of the HTML page in
- The utf8 value denotes Unicode character encoding. This is the most popular encoding found on the web.

<title>

- The <title> tag defines the main title of the webpage.
- There is an end </title> tag after the title.
- This is the title that will show up at the top of your browser as well as in search results.

<link rel="stylesheet"
href="style.css">

- The <link> tag links outside resources to the HTML document.
- There is no ending tag for <link>
- The rel attribute defines the relationship of the outside resource. The stylesheet value tells the browser that what we are linking is...a stylesheet.
- The href attribute defines the link (reference) to the resource while the style.css value is the path.

`<script src="script.js">`

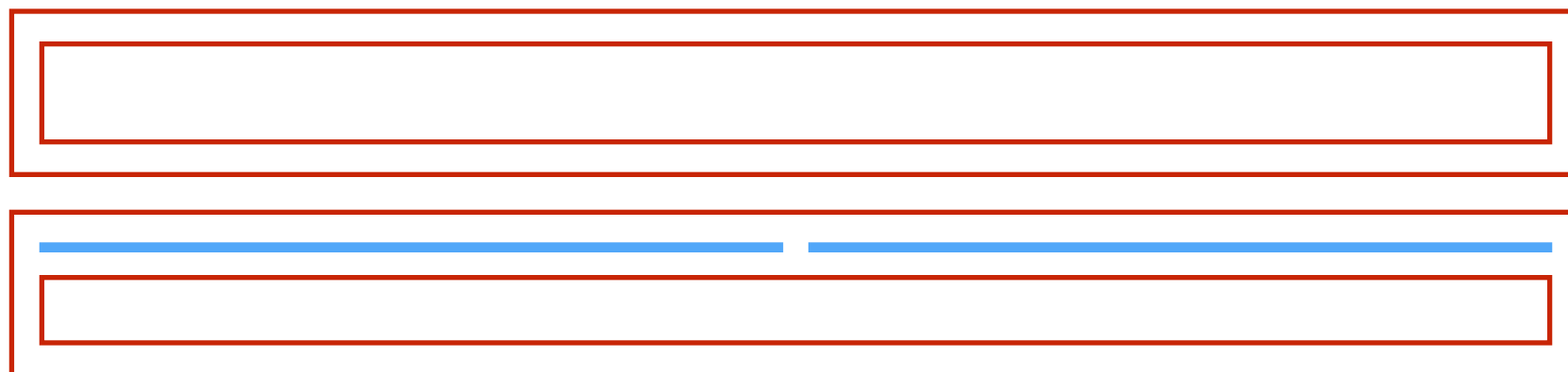
- The `<script>` tag defines a piece of client side Javascript code to be included in the webpage.
- The `src` attribute defines the link to the resource. The `script.js` value is the path.
- There is an ending `</script>` tag.
- This is because Javascript can be written directly inside the `<script></script>` tags without a `src` defined.

<body>

- The <body> tag marks the start of what will be rendered in the main browser window.
- There is an end </body> tag where the browser should stop rendering content.

Block Level Elements

- Block level elements start on a new line (Think stacking boxes)
- **Block** level elements can contain **inline** elements as well as other block level elements (text inside a box or box inside a box)



Block Level Elements

<div> </div>

Used for content “divisions”. The most common block level element you will see. Generic block container.

<h1> </h1> - <h6> </h6>

Used for headings. Ranked from most to least important. Think of a traditional document outline. A <h#> tag applies information to it's parent.

<p> </p>

Paragraph tag. Defines a block of text

** **

“Ordered” list.

1. List Item 1
2. List Item 2
3. List Item 3

** **

List item. Must be used within a list element.

** **

“Unordered” list.

- List Item 1
- List Item 2
- List Item 3

<header> </header>

HTML 5. Header grouping that applies to it's parent. Can contain <h#> tags as well as subtitles, meta information, etc.

<article> </article>

HTML 5. Semantic container denoting the content inside is an “article” of content

<section> </section>

HTML 5. Semantic container dividing a document into logical “sections”. Think of a document outline and the many sections. Should NOT be used like a generic <div>

<aside> </aside>

HTML 5. Semantic container separating a piece of content from the main content of the website. Can be used for sidenotes or even sidebars as long as the content is related.

<main> </main>

HTML 5. Semantic container denoting the main content of a website.

Block Level Elements cont.

<footer> </footer>

HTML5. Opposite of the <header> the footer contains information at the end of a section.

<blockquote> </blockquote>

Used for long (not inline) quotes such as the pull-quotes seen in traditional publications.

<nav> </nav>

Contains navigation.

<hr>

Visual horizontal rule. Used to semantically break up content.

<form> </form>

Used to define an HTML input form.

<table> </table>

Used to define a tabular display of data. Should not be used for layout unless the content is tabular in nature.

Inline Level Elements

- Inline elements do not begin on a new line. They only take up the space of their content. They will try to sit next to each other on the same line if there is enough room.
- **Inline** level elements can only contain content or other inline elements.



Inline Level Elements

** ***

Used to *style* text as bold. This is an older tag and in HTML5 we have...

** **

Defines text as strong. This isn't a style, it's a semantic definition.

<i> </i> *

Used to *style* text as italic. This is an older tag and in HTML5 we have...

** **

Puts emphasis on content. This isn't a style, it's a semantic definition. Not to be confused with the unit of measurement.

<small> </small>

Opposite of strong. Intended for short runs of text. Not presentational.

<q> </q>

Inline quotes, not block level.

<cite> </cite>

Citation of outside resource. Used inside block quotes or just to cite the title of a resource.

**<a> **

Anchor tag most commonly used for links to outside pages or to locations on the current page.

** **

Generic inline level container.

**
**

Line break

Inline Level Elements cont.

Used to display images.

<input>

User input inside of a form.

<select> </select>

Dropdown field in a form.

<option> </option>

Options defined inside of a <select></select> tag.

<textarea> </textarea>

Large text block input used in forms.

Common Attributes

alt=" "

Alternative Text. Used on images, videos, audio, etc. Used for screenreaders and accessibility.

href=" "

Hypertext Reference. Used inside of `<a>` tags most commonly to define the link path.

title=" "

Describes extra title information about an element. Displayed as a tooltip.

src=" "

Used in media tags such as `` to define the source path of the media.

style=" "

Inline CSS styles.

target=" "

Used on links to define where the link should open.

_blank = new window

_self = same window

class=" "

Gives an element a definable “class”. Used in CSS and javascript to target elements. Classes are re-usable and can appear multiple times on a page.

id=" "

Gives an element a unique ID. Used in CSS and javascript to target elements. IDs are unique and can only be used once per page.