Tags and formatting them:

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<html>
your page content goes here
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This is a tag, and an <html> tag contains (almost) all the content on your page.

This type of tag is called a container tag, because it contains content. There are also simple tags, such as

hr>, <hr> and , that do not contain content. Most of the tags you'll use to code your site are container tags.

Elements

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<br/>
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This is a paragraph.
<a href="default.htm">This is a link.</a>
<br/>
```

Start tag*

* or opening tag

** or closing tag

Element content

This is a paragraph
This is a link

End tag**



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tag and some others like it can function as empty elements.

inserts a line break into your pages. <hr>> inserts a horizontal rule.

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The tag is another tag that functions like this. Images work oddly in html, but what you need to know is that in xhtml, img tags have attributes (more on this later) but don't themselves contain content.

```
<img src="cat.jpg" alt="a cat picture" />
```

An HTML element starts with a **start (or opening) tag** and ends with an **end (or closing) tag**.

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Start tag	Element content	End tag
	This is a paragraph	
	This is a link	

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Common block level elements:

Common inline elements:

Note: many inline elements are/were used for presentation, which is not ideal. We'll come back to block and inline elements when we learn CSS.

HTML elements can be nested within one another, and they generally are. The example above contains three HTML elements. Anyone want to guess what they are?

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The elements are: html (to define the page); body (to define the body content) and p (to define a paragraph).

The indents are standard practice to define different levels of the document. They don't affect how a browser reads the content, but how you'll read it.

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Attributes come in name/value pairs. The proper syntax is:

name="value"

Attribute example:

A link to Google.

A link to Google.

Tag: a

A link to Google.

Tag: a

Attribute: href="http://www.google.com"

A link to Google.

Tag: a

Attribute: href="http://www.google.com"

Name: href

A link to Google.

Tag: a

Attribute: href="http://www.google.com"

Name: href

Value: http://www.google.com

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Attribute: href="http://www.google.com"

Name: href

Value: http://www.google.com

Tips:

- * The name is separated from the value by an equals sign (=)
- * The value should always have quotes around it (" ").
- * Double or single quotes work equally well, but if you have double quotes inside an attribute, they must be nested inside single quotes.

example: name='Eldrick "Tiger" Woods'

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They also are used by programmers to quickly turn on or off pieces of code without actually deleting them from the program.

The comment syntax for HTML is as follows:

<!-- this is a comment -->

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<!-- this is a comment -->

This is not a valid comment:

<!-- this -- this is a comment -->

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- * XHTML elements must be properly nested
- * XHTML elements must always be closed
- * XHTML elements must be in lowercase
- * XHTML documents must have one root element

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In XHTML, all elements must be properly nested within one another:

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* note: we won't use HTML tags to actually style content; this is just an example

In HTML, non-empty elements can lack closing tags:

```
This is a paragraph.
```

This is another paragraph.

In XHTML, all elements must be closed:

This is a paragraph.

This is another paragraph.

In HTML, empty elements can also lack closing tags:

A break:

A horizontal rule: <hr>>

An image:

In HTML, empty elements can also lack closing tags:

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An image:

XHTML elements must be in lower case

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In HTML, mixed case works just fine:

```
<BODY>
This is a paragraph
```

XHTML elements must be in lower case

In HTML, mixed case works just fine:

```
<BODY>
This is a paragraph
```

In XHTML, you must use lower case:

```
<br/><body><br/>This is a paragraph</body>
```

XHTML documents must have one root element

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All XHTML elements must be nested within the https://www.nested.com/html root element. Child elements must be in pairs and correctly nested within their parent element.

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The basic structure of a document is:

```
<html>
    <html>
    <head>
        <title>
        </title>
        </head>
        <body> ... </body>
</html>
```

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OK. That's enough leturing; let's get out of here and start building some web pages.