



# *What is HTML?*

- HyperText Markup Language
- **NOT** a programming language
- Markup Language for creating webpages / documents
- Building blocks of the Web





# *Creating an HTML file*

- Does NOT need a server
- Files must end with the **.html** extension
- Runs in a web browser (Chrome, FireFox, etc)
- **index.html** is the root / home page of a website





# *Doctype*

- Explains what type of document the page is
- HTML<sub>4</sub>, HTML<sub>5</sub>, XHTML, etc

HTML<sub>5</sub>

```
<!DOCTYPE html>
```

HTML<sub>4.01</sub> Strict

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4/strict.dtd">
```

XHTML 1.0 Strict

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
```

# *HTML Page Structure*

<html>

<head>

<title>Page title</title>

</head>

<body>

<h1>This is a heading</h1>

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

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

</body>

</html>





# *Page Structure (HTML)*

```
<!DOCTYPE html>  
<html>  
  <head>  
    <title>Page Title</title>  
  </head>  
  <body>  
    <h1>My First Heading</h1>  
    <p>My first paragraph.</p>  
  </body>  
</html>
```





# *Tag Syntax*

`<tagname>content</tagname>`

`<h1>About Us</h1>`

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

`<br />` (self closing)

`<br>` (*Fine in HTML5*)

- Element names surrounded by angle brackets
- Normally come in pairs (start tag and end tag)
- End tag is usually the same but with a forward slash
- Some tags close themselves (*Remnant of XHTML*)





# *Inline .vs Block Level Elements*

## **Inline Elements:**

- Do not start on a new line
- Take only the necessary width

## **Block Elements:**

- Start on a new line
- Take full width available

**Block Level:** <div>, <h1> - <h6>, <p>, <form>

**Inline Level:** <span>, <img>, <a>







# *Tag Attributes*

*<tagname*

*attributename="attributevalue">content</tagname>*

**<h1 title="My Company" >About Us</h1>**

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- All tags can have attributes
- Provide information about an element
- Placed within the start tag
- Key/value pairs (id="someId")







# *HTML5 Semantic Tags*

A semantic element clearly describes its meaning to both the browser and the developer.

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`<header></header>`

`<footer></footer>`

`<aside></aside>`

`<main></main>`

`<article></article>`

`<nav></nav>`

`<section></section>`

`<details></details>`

