

HTML

Learning objectives

- The aim of this elective is to teach you how to use HTML to create a media rich and interactive website
- You will learn and practice how to use HTML & CSS tags
- You will plan out a website and create it using an online editor
- The website you create is a 'brochure' website and will be media rich

Why learn it?

- Every webpage is written in a language called HTML
- HTML stands for HyperText Make-Up Language

Hypertext = 'text with links in it'

Markup = this is a programming language used to make text do more like be images, links, tables, lists etc.

- CSS is Cascading Style Sheets – this is what makes webpages look pretty

HTML Structure

- Always start the html file with:
 - `<!DOCTYPE html>`
- Follow it with `<HTML>`
- At the end of the file end with `</HTML>`
- HTML is written inside what is called tags `<>`
- Most tags come in pairs – an opening tag in front of the text and a closing tag at the end.
- Everything written inside the tag will be formatted/alterd to suit what the tag does
- E.g.
`<p>` this makes a paragraph `</p>`

The most basic of sites

`<!DOCTYPE HTML>` → Always start with this tag

`<HTML>` → Always follow with this tag

`<BODY>` → Inside the `<BODY>` is where all the text and media you see exists.

`</BODY>` → Place this tag before you close the HTML tag and after all the content of the site has been declared

`</HTML>` → Always end with this tag

The HEAD and TITLE tag

- Immediately after the opening `<HTML>` tag, you place the `<HEAD>` tag
- The `<HEAD>` tag contains information about your HTML file like its title
- The title is what appears in the page tab

`<HEAD>`
`<TITLE>`
page name
`</TITLE>`
`</HEAD>`

Quick exercise 1

- Write a simple webpage with a title 'my first site'
- In the BODY of the site write 'I love to dance!'
- Be sure to include all the tags covered so far

Answer

```
<!DOCTYPE HTML>  
<HTML>  
<HEAD>  
  <TITLE>  
    My first site  
  </TITLE>  
</HEAD>  
<BODY>  
  My name is Miss A and I want to learn HTML because I  
  want to design websites.  
</BODY>  
</HTML>
```

The <p> tag

- To format text into paragraphs, you use the <p> tag
- Everything written inside the opening and closing <p> tag will be formatted into a paragraph

<p> tag exercise

- Format the following block of text into 3 paragraphs. Be sure to place it all inside the <BODY> of the site.
 - Write the webpage in full with all the necessary tags
- NOT all that Mrs. Bennet, however, with the assistance of her five daughters, could ask on the subject was sufficient to draw from her husband any satisfactory description of Mr. Bingley. They attacked him in various ways; with barefaced questions, ingenious suppositions, and distant surmises; but he eluded the skill of them all; and they were at last obliged to accept the second-hand intelligence of their neighbour Lady Lucas. Her report was highly favourable. Sir William had been delighted with him. He was quite young, wonderfully handsome, extremely agreeable, and, to crown the whole, he meant to be at the next assembly with a large party. Nothing could be more delightful! To be fond of dancing was a certain step towards falling in love; and very lively hopes of Mr. Bingley's heart were entertained

The <h_> Tag

- The <h_> is used to create headers
- Create an HTML web page to introduce yourself. Be sure to use the <h_> tag on your page.
- There are 6 header sizes
- <h1> is the largest ----<h6> is the smallest

Formatting exercise

- Write a simple webpage that includes:
 - A title – your choice
 - A header <h1> in the body
 - 2 paragraphs in the body
 - <h3> above the second paragraph
- Content choice is up to you

Other formatting tags

- `<hr>` - this is for drawing a horizontal line. It doesn't come with a close tag

`<p> above </p>`
`<hr>`
`<p>below </p>`

Will look like this:

above

below

- `
` - used to add a new line. Handy when you have a block of text formatted into a paragraph but you want to format it so some text appears on a new line within the same paragraph.
- Like in an address:
 Peter Sherman
 245 Chandler Road
 Nottingham
 UK
 N10 5TJ
- In HTML this would be

```
<p>
Peter Sherman<br>
245 Chandler Road <br>
Nottingham<br>
UK <br>
N10 5TJ <br>
</p>
```

Bold/italics/underlined

- `` - bold
- `<i>` - italics
- `<u>` underlined

- Wrap these around text to format them
- Can use more than one of them at the same time

```
<b><i> this will be bold and italic </i></b>
```
