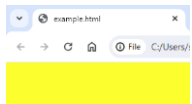





Computer Science	JavaScript Programming		Year 9	Term 6
<b>Week 1: HTML Introduction</b>		<b>Week 2: HTML Formatting and Links</b>	<b>Week 3: HTML</b>	
<p>HTML stands for Hypertext Markup Language. It is the code that we use to change the way that a hypertext document looks.</p>	<p>HTML Skeleton:</p> <pre>&lt;html&gt;   &lt;head&gt;     &lt;title&gt;</pre>	<p>We have to tell a web browser exactly where a new line should be in a web page. We use a single tag for this: <code>&lt;br&gt;</code> which should go before the new line.</p> <pre>this is a line. &lt;br&gt; this is a line. this is another line.  this is another line.</pre>	<p>It is important to know where you files are for a web page. This is because the web browser will look in the same folder as a page for its images and links unless we tell it to.</p>	
<p>Hypertext is any text that can be linked to another piece of text. A web page is an example of a hypertext document.</p>	<pre>&lt;/title&gt; &lt;/head&gt;  &lt;body&gt; &lt;/body&gt; &lt;/html&gt;</pre>	<p>If we want to have a gap between paragraphs, we can turn an entire section of text into a paragraph with the <code>&lt;p&gt;</code> <code>&lt;/p&gt;</code> tags.</p> <pre>&lt;p&gt;this is a paragraph&lt;/p&gt; &lt;p&gt;this is another paragraph&lt;/p&gt; this is a paragraph this is another paragraph</pre>	<p>We can add in images to our web pages by using the <code>&lt;img src = "X"&gt;</code> tag. You write the file name in the X above.</p>	
<p>HTML code is called TAGS. They have the greater than (&lt;) and less than (&gt;) symbols before and after them. E.g. <code>&lt;html&gt;</code> or <code>&lt;body&gt;</code></p>		<p>We change the background colour of a webpage by changing the <code>&lt;body&gt;</code> tag to <code>&lt;body bgcolor = X&gt;</code>. Whatever you place in the X is what colour it will become.</p> 	<p>When adding in an image though you must know what type of file it is. This is so that you can tell the browser. i.e. <code>&lt;img src = "cat.jpg"&gt;</code> would look specifically for a file with the name "cat" that is a JPEG.</p>	
<p>HTML tags normally come in pairs. There is always an opening tag and then a closing tag. The closing tag is different as it uses a / at the start of the word. E.g. <code>&lt;html&gt;&lt;/html&gt;</code> or <code>&lt;body&gt;&lt;/body&gt;</code></p>		<p>We change the style or colour of the font using the <code>&lt;font&gt;</code> <code>&lt;/font&gt;</code> tags.</p>	<p>You can find specific things when searching the internet by refining your search; this is when you add more search terms, or try to be very specific in what you are looking for.</p>	
<p>The basic structure of a web page is the HTML skeleton. This is the basis of all web pages and contains the basic parts that we always need.</p>		<p>We link a piece of text by placing the <code>&lt;a&gt;</code> <code>&lt;/a&gt;</code> tags either side of it. e.g. a link on the text "home" would look like this: <code>&lt;a href = "link.html"&gt; home &lt;/a&gt;</code> <code>&lt;a href = "page2.html"&gt; LINK TEXT &lt;/a&gt;</code> <a href="#">LINK TEXT</a></p>	<p>When we download images, we can check their file type by clicking on their properties.</p>	
<b>Extension QR Codes – Follow the links to find out information on HTML and how to format pages:</b>				
				

Week 4: Divisions and CSS	Week 5 & 6: JavaScript	Week 7: JavaScript
<p>The <code>&lt;div&gt;&lt;/div&gt;</code> tags will allow you to split up your pages into different section.</p>	<p>JavaScript is a programming language that can be used to make different things happen on a page. It is used for lots of different functions on a web page.</p>	<p>We can create a new variable in JavaScript using the code:</p> <pre>var name = x;</pre> <p>Name would be whatever you want the variable to be called. X is the value assigned to variable.</p>
<p>The ID that we give them is what we can then use to link in specific formatting using a style sheet.</p>	<p>We add in JavaScript using the <code>&lt;script&gt;&lt;/script&gt;</code> tags. The code then goes in between those tags.</p>	<p><code>function NAME() {}</code> is a more advanced piece of JavaScript code that lets you do multiple things at once. This is the same as the subroutines that we wrote in Python.</p>
<p>The simplest way to add a style sheet to a web page is in the <code>&lt;head&gt;</code> tags. We do with the <code>&lt;style&gt;&lt;/style&gt;</code> tags.</p>	<p><code>&lt;script&gt;</code> tags can be added anywhere in the code, but different browsers will load the code at different times.</p>	<p>The code for a subroutine using function has to go between the two curly brackets: <code>{}</code></p>
<p>With the <code>&lt;style&gt;</code> tag, you have to remember to write the formatting code in a specific way:</p> <pre>NAME {   ThingToChange : change; }</pre>	<p>Chrome will load the code at the very beginning of the page. Edge will load it at whichever point it meets the code as it loads.</p>	<p>We can change the contents of a web page as well using code:</p> <pre>document.getElementById("NAME")</pre> <p>NAME would then be whichever name you gave to the part of the web page that you want to work with.</p>
<p>A style sheet can also be a separate document. We call this kind of formatting CSS, or Cascading Style Sheet.</p>	<p><code>alert();</code> is a very simple piece of JavaScript code that will add an alert message to the top of the browser window.</p>	<p>You can also add inputs to a web page with the <code>&lt;input /&gt;</code> tag. This is an example of a simple text box input:</p> <pre>&lt;input type="text" id="name" /&gt;</pre>
<p>We use the American English version of the word color whenever we write out HTML code. It is important to remember this.</p>		<p>You can also add buttons to a web page with the <code>&lt;button&gt;</code> tags. This is an example of a simple button:</p> <pre>&lt;button onclick="name()"&gt;txt&lt;/button&gt;</pre>
<p><b>Extension QR Codes – Follow the links to find out information on CSS, JavaScript and advanced features of coding in the language:</b></p>		
