HTML, CSS, and JavaScript

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```
1 <html>
2 <head>
3  <meta http-equiv="content-type" content="text/html; charset=utf-8" />
4  <link href="/css/main.css" rel="stylesheet" type="text/css" media="all" />
5  <title>HTML Notepad - Free HTML, PHP, CSS, JavaScript and XML Editor</title>
6 </head>
7 <body>
8  <div id="all">
9    <div id="header">
10      <div id="menu">
11         <a href="/screenshot.html">Screenshot</a>
12         <a href="/features.html">Features</a>
13         <a href="/awards.html">Awards</a>
14         <a href="/contact.html">Contact</a>
15      </div>
16     </div>
17  </div>
18  <div id="content">
19    <h3>Free HTML, PHP, CSS, JavaScript and XML Editor</h3>
20  </div>
21 <p>
22 HTML Notepad is a free HTML, PHP, CSS, JavaScript and XML editor software, free for any
23 </p>
24 <p>
25 Clean and convenient interface, quick startup, true flexibility and powerful features a
```
What is HTML?

- HTML stands for hyper text markup language.
- The purpose of html are codes that make up a website.
- which makes it possible to present information or (scientific research) on the Internet.
What are elements and tags in HTML?

Elements give structure to a HTML document and tells the browser how you want your website to be presented.

- Generally elements consists of a start tag, some content, and an end tag.

Tags are labels you use to mark up the beginning and end of an element.
**HTML: Attributes**

- **What is an attribute?**
- **Is a structure to a html document and tells the browser how you want your site to be presented.**
- **Change the style and background of the website, where it will grab the audience attention.**
Attributes are always written within a start tag and are followed by an equals sign and the attribute details written between inverted commas.

The background color with the code "#ff0000". This is the color code for red using so called hexadecimal numbers (HEX).

- White: #ffffff
- Black: #000000 (zeros)
- Red: #ff0000
- Blue: #0000ff
- Green: #00ff00
- Yellow: #ffff00
Another way instead of using color codes, you can also type the English name of the common colors.

example: `<body style="background-color: red;">`

You can use what you always use when coding HTML: an elements. A simple element with one attribute and you will be able to link to anything and everything in your website.
What is CSS?

CSS stands for Cascading Style Sheets

CSS is a style language that defines layout of HTML documents. For example, CSS covers fonts, colors, and many more.

The difference between HTML and CSS is that HTML is used to structure content and CSS is used for formatting structured content.
As the Web gained popularity, designers started looking for possibilities to add layout to online documents.

As what you’ll seen in the HTML attributes section your basic CSS model and which codes are necessary to use CSS in an HTML document.
Using **HTML** we could have done it like this:

- `<body bgcolor="#FF0000">`

With **CSS** the same result can be achieved like this:

- `body {background-color: #FF0000;}`
There are three css methods:

- **In-line (the attribute style)**
- **Internal (the tag style)**
- **External (link to a style sheet)**

You can place the style sheet on your web server or hard disk.

The goal is to create a link from the HTML document (default.htm) to the style sheet (style.css).
In-line (the attribute style) Which one way to apply CSS to HTML is by using the HTML attribute style.

```html
1. <script>
2.   function toggleBlock(elementId) {
3.     var element = document.getElementById(elementId);
4.     if(element.style.display == '')
5.       element.style.display = 'none';
6.     else
7.       element.style.display = ''; }
8. </script>
9. </script>
10. <div id="myId" style="display: ;">
11.   This text is in a block.
12. </div>
13. <p><a href="#" onclick="toggleBlock('myId'); return false;">Toggle Block</a></p>
```
CSS METHODS

- **Internal (the tag style)** another way is to include the CSS codes using the HTML tag `<style>`. 

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/1999/xhtml">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<title>My First Page</title>

<style type="text/css">

body {
    background-color: #99CCFF;
}

</style>

</head>

<body>
<p>Hello World <hr /></p>
The quick brown fox <em><strong>jumped</strong></em> over the lazy dog. </p>
</body>
</html>
```
External (link to a style sheet) the recommended method is to link to a so-called external style sheet.

1. `<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/REC-html40/strict.dtd">
2. <html>
3. <head>
4.   <meta content="text/html; charset=ISO-8859-1" http-equiv="content-type">
5.   <title>about-armidale</title>
6.   <link rel="stylesheet" href="support-files/style-sheet-about-armidale.css" type="text/css">
7. </head>
8. </body>
9. <div class="center">
10. <table style="text-align: left; width: 950px;" border="0"
11. cellpadding="0" cellspacing="0">
12. <tbody>
13.   <tr align="left">
14.     <td colspan="2" rowspan="1">header graphic
15.     goes here<br>
16.   </tr>
17.   </tbody>
18. </table>
19. </div>
20. </html>`
External (link to a style sheet)

- The image on your right shows the style sheet is named style.css and is located in a folder named style and that the situation can be illustrated.
- A link can also be created
  With one line of HTML code.
What is Java Script?
Java Script is a programming language that is used to make web pages interactive.
It runs on your visitor's computer and so does not require constant downloads from your web site.
Some people think that java is java script which it is not, they are two different computer languages.
Even though java is a computer programming language, It enables programmers to write computer instructions using English based commands, instead of having to write in numeric codes.
The languages use syntaxes influenced by that of a C syntax, which JavaScript copies many Java names and naming conventions.

- A syntax is the study of the principles and rules for constructing sentences in natural languages.

The language's name is the result of a co-marketing deal between Netscape and Sun, in exchange for Netscape bundling Sun's Java runtime with their then-dominant browser.
- Java Script is an interpreted language and so there are no special programs required to be able to create usable codes.
- Any plain text editor such as Notepad is quite satisfactory for being able to write Java script.
- An example is by using a .js extension helps identify them as Java script and multiple pages of your site if you place them in separate files

HTML, CSS, and Java Script
<p>The End.</p>