

An Introduction to the use of Basic HTML

Unit 3 Web Design

Webpage Storyboard

- A storyboard is a visual plan for a website.
- It usually consists of a series of pages that include a rough sketch outlining the:
 - Content
 - Navigation
 - Design elements of the website.

Create a Webpage Storyboard

- Create a storyboard for a website that includes:
 - A title
 - Several paragraphs
 - Headings for each paragraph

HTML

```
<html>
```

```
<head>
```

```
<title>An example HTML document</title>
```

```
</head>
```

```
<body>
```

```
<p>Hello world!</p>
```

```
</body>
```

```
</html>
```

An HTML Document Contains Pairs of Tags

- The `html`, `head`, and `body` tags are called *document tags*:
 - The `<html>` tag tells the browser that the file contains **HyperText Markup Language (HTML)**.
 - The `<head>` tag defines the section that contains information about the document, including its title.
 - This section will not be displayed as part of the document.
 - The `<title>` tag marks the document title.
 - The title section must be within the head section.
 - The title should be descriptive and meaningful because it is displayed in the title bar of the browser window and is also used when the user adds the document to the Favorites list.

An HTML Document Contains Pairs of Tags

- The <body> tag defines the body section, which contains the document's content.
 - All content must be enclosed in the appropriate tags.

HTML Document Structure



The diagram illustrates the structure of an HTML document using a tree-like format. A vertical line on the left represents the root of the document. From this line, a horizontal line branches out to the right, labeled with the opening tag `<html>`. This horizontal line then branches into two vertical lines. The first vertical line branches into three horizontal lines, labeled with the opening tag `<head>`, the content `<title>document title</title>`, and the closing tag `</head>`. The second vertical line branches into two horizontal lines, labeled with the opening tag `<body>` and the content `content`. Finally, the main vertical line branches into a horizontal line at the bottom, labeled with the closing tag `</html>`.

```
<html>  
  <head>  
    <title>document title</title>  
  </head>  
  <body>  
    content  
  </body>  
</html>
```

Poorly Structured HTML Document

- HTML documents are free-form, which means that spaces and blank lines generally have no effect on how the document is interpreted.

```
<html><head><title>An example HTML document</title>
</head>
<body> <p>Hello world!<p></body></html>
```

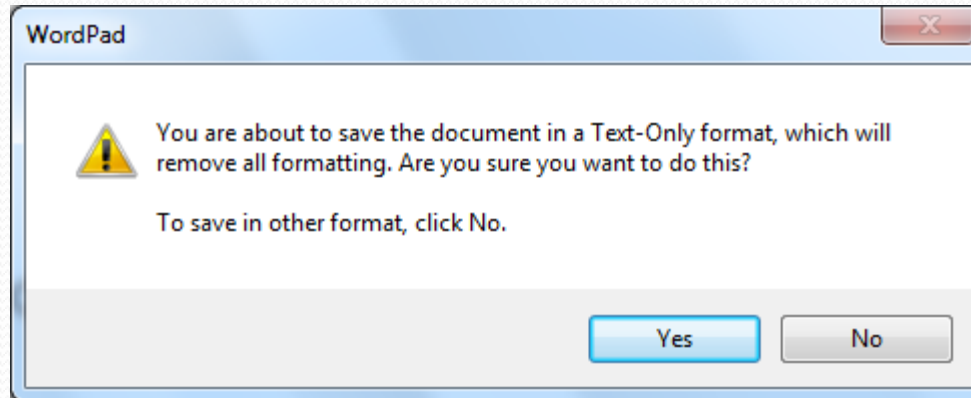
- This document displays exactly the same as the HTML document shown previously.
- However, editing a poorly structured document can be time-consuming and error-prone.

Demo of HTML Editor

- We will use WordPad to create a webpage.
- Save as a **Plain text document**
 - **Save the document as plain text without line breaks or formatting.**
- Save it on your Z: drive.
- Use the **.html** suffix at the end of the filename.
 - For example: myFirstWebsite.html

Demo of HTML Editor

- Choose **Yes** when you see this pop-up window:



Viewing the Webpage

- Navigate to where you saved the file and double-click on the file to open it in a browser.
- Notice:
 - The title appears in the bar or tab at the top of the window.
 - The end tag is a necessary part of the syntax in order to tell the computer when to stop doing a particular thing.

HTML Page with Title and Body

- Write a paragraph in the body section and give it a title.
 - You may write about yourself or another topic of interest.
- Add a second paragraph to your webpage.
- Add two lists related to your topic (favorite movies, music, hobbies, etc.)
 - What happens when you open the page in the browser?

HTML Page with Paragraphs and Headings

- Notice that everything runs together no matter how you typed it.

Tag	Description	End Tag
<code><p></code>	Defines a paragraph	<code></p></code>
<code><h1></code> to <code><h6></code>	Defines headings at levels 1-6	<code></h1></code> to <code></h6></code>

- Insert these new tags into your webpage and note what happens.
- Don't forget to use the end tags.

Line Breaks and Horizontal Lines

Tag	Description	End Tag
<code>
</code>	Defines a single line break	
<code><hr/></code>	Defines a horizontal line	

- Here are two tags that do not need to be paired with an end tag.
- Insert these new tags into your webpage and note what happens.

Creating Lists

Tag	Description	End Tag
	Defines the start and end of a bulleted list.	
	Defines the start and end of a numbered list.	
	Defines the start and end of an item.	

- Experiment and determine what combination of tags will allow you to put your lists in a column, with each list having its own heading.

Emphasized Text

Tag	Description	End Tag
<code></code>	Defines where you want text to be strongly emphasized (appears bold)	<code></code>
<code></code>	Defines where you want text to be emphasized (appears in italics)	<code></code>

- Insert these new tags into your webpages and note what happens.
- What would you like to be able to do with web pages that you have not done already?