



# Workshop / Web Design: Introduction to HTML

By: Mustafa Qassab

# Part 1

## Content

- Historical review.
- HTML programming outline.
- HTML main document tags.
- HTML basic webpage example.

## Markup Languages and the Web

- Standard Generalized Markup Language (SGML) SGML is a system for defining markup languages. A system for organizing and tagging elements of a document.
- HTML is one example of a markup language. Each markup language defined in SGML is called an SGML application.

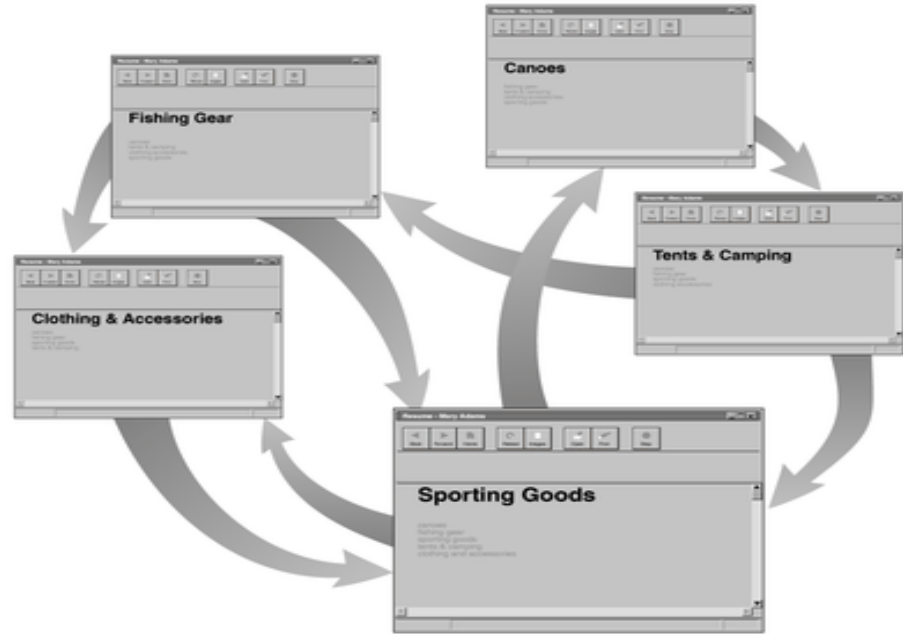
## Hypertext & HTML

- Hypertext Markup Language (HTML) is the language for specifying the content of Web pages
  - *hypertext* refers to the fact that Web pages are more than just text
    - can contain multimedia, provide links for jumping within & beyond
  - *markup* refers to the fact that it works by augmenting text with special symbols (tags) that identify structure and content type

# Traditional vs. Hyperlinked Document Pages



Reading a linear document



Reading a hypertext document

# Programming in HTML - Basic HTML: Outline

HTML describes layout and content of the page, content may include multimedia and scripts or small programs, dialogs and forms

- HTML Tags & elements
- HTML Text formatting
- HTML Links
- HTML Frames
- HTML Tables
- HTML Lists
- HTML Forms
- HTML Images
- HTML Back Ground.



# Structural Elements

- an HTML document has two main structural elements
  - **HEAD** contains setup information for the browser & the Web page.
    - e.g., the title for the browser window, style definitions, JavaScript code, ...
  - **BODY** contains the actual content to be displayed in the Web page.



# HTML: Document Tags

`<HTML> ... </HTML>`

Beginning and end of every HTML document

`<HEAD> ... </HEAD>`

Contains information about the document including the title that is to appear in the title bar

`<TITLE> ... </TITLE>`

Causes the page title to be displayed in the title bar

`<BODY> ... </BODY>`

All content for the page is placed between these tags

# HTML Text Tags: Heading Tags

- Heading Tags (levels 1-6)
  - `<H1>` Largest Heading `</H1>`
  - `<H2>` Major Subdivision `</H2>`
  - `<H3>` Minor Subheading `</H3>`
  - `<P>` Regular Text `</P>`
  - `<H4>` `</H4>`
  - `<H5>` `</H5>`
  - `<H6>` `</H6>`

# A Very Simple HTML Program

- Open text editor, create a file and save it with an extension .html, simple HTML program.

```
<HTML>
  <HEAD>
    <TITLE> Stay Home </TITLE>
  </HEAD>
  <BODY>
    <H1> Distance Learning </H1>
    <P> Hello World </P>
  </BODY>
</HTML>
```

## Part2: Content

- Text Alignment.
- Line Break Tag & Spaces.
- Formatting Tags `<b>` , `<i>` , `<u>`.
- Moving Text Tag.
- Preformatted Text Tag.

# Text Alignment

Align headings and text with the ALIGN command

- left, center, and right justify a heading

```
<H1 ALIGN=LEFT>Joe's home page</H1>
```

```
<H1 ALIGN=CENTER>Joe's home page</H1>
```

```
<H1 ALIGN=RIGHT>Joe's home page</H1>
```

- left, center, and right justify a paragraph

```
<P ALIGN=LEFT>imagine a BIG paragraph in here</P>
```

```
<P ALIGN=CENTER> imagine a BIG paragraph in here </P>
```

```
<P ALIGN=RIGHT> imagine a BIG paragraph in here </P>
```

# Alignment Example

```
<HTML>
<HEAD>
<TITLE> Stay Home </TITLE>
</HEAD>
<BODY>
<H1 align=left> Distance Learning </H1>
<H1 align=center> Distance Learning </H1>
<H1 align=right> Distance Learning </H1>
<P align=left> Hello World </P>
<P align=center> Hello World </P>
<P align=right> Hello World </P>
</BODY>
</HTML>
```

**Distance Learning**

**Distance Learning**

**Distance Learning**

Hello World

Hello World

Hello World

## HTML Text Tags: Line Break Tag & Spaces

`<BR>`

Forces a new line

`&nbsp;`

Adds space between characters

# Line Break Tag & Spaces Example

```
<HTML>
<HEAD>
<TITLE> Stay Home </TITLE>
</HEAD>
<BODY>
<P align=center> Hello &nbsp; &nbsp; &nbsp; World <br>
Hello &nbsp; &nbsp; &nbsp; World</P>
</BODY>
</HTML>
```

Hello    World  
Hello    World



## HTML Formatting Tags (cont.)

`<b>` , `<i>` , `<u>`

- Emphasis Tag: `<i>` ... `</i>`  
Usually displays italics
- Strong emphasis Tag: `<b>` ... `</b>`  
Usually displays boldface
- Underline Tag: `<u>` ... `</u>`

# Formatting Tags Example

```
<HTML>  
<HEAD>  
<TITLE> Stay Home </TITLE>  
</HEAD>  
<BODY>  
<b><p align=center> Hello World </p></b>  
<i><p align=center> Hello World </p></i>  
<u><p align=center> Hello World </p></u>  
</BODY>  
</HTML>
```

**Hello World**

*Hello World*

Hello World

## Moving Text Tag

`<marquee>`

- The `<marquee>` tag comes in pairs. The content is written between the opening `<marquee>` and closing `</marquee>` tags.

## Moving Text Example

```
<html>
<head>
<title>Title of the document</title>
<style> marquee{ font-size: 30px; font-weight:
      800; color: #8ebf42; font-family: sans-serif; } </style>
</head>
<body>
<marquee>A scrolling text</marquee>
</body>
</html>
```

**A scrolling text**

## Preformatted Text Tag

`<PRE> ... </PRE>`

The `<pre>` tag in **HTML** is used to define the block of preformatted text which preserves the text spaces, line breaks, tabs, and other formatting characters which are ignored by web browsers.

# Preformatted Text Tag Example

```
<HTML>
```

```
<HEAD>
```

```
<TITLE> Stay Home </TITLE>
```

```
</HEAD>
```

```
<BODY>
```

```
<pre><h2 align=center> Hello      World </h2></pre>
```

```
</BODY>
```

```
</HTML>
```

Hello

World

## Part3: Content

- Webpage background.
- Font.
- Links.
- Image.

# Webpage Background

You can choose your webpage background to be either a color:

➤ `<body bgcolor='aabbcc'>`

or an image (owned or off the internet):

➤ `<body background="c:\image.jpg">`

Note: choose images that fit your screen resolution.

Also you can change your general text color:

➤ `<body text='ff0000'>`



# Webpage Background Example 1

```
<html>
<head>
<title>Stay Home</title>
</head>
<body bgcolor='aabbcc' text='ff0000'>
<h1>HTML body tag example</h1>
<p>Here you type your content</p>
</body>
</html>
```



Red Green Blue  
(RGB)

**HTML body tag example**

Here you type your content

## Webpage Background Example 2

```
<html>  
<head>  
<title>Stay Home</title>  
</head>  
<body text='ff0000' background="C:\Users\Mustafa\Pictures\palmtrees.jpg">  
<h1>HTML body tag example</h1>  
<p>Here you type your content</p>  
</body>  
</html>
```



# Font

Font has many attributes including size and color.

To change font size, font tag is used with size attribute:

➤ `<font size="4"> ..... <\font>`

To change font color, font tag is used with color attribute:

➤ `<font color="00ff00"> ..... <\font>`

## Font Example

```
<html>
<head>
<title>Stay Home</title>
</head>
<body text='ff0000' background="C:\Users\Mustafa\Pictures\palmtrees.jpg">
<h1>HTML body tag example</h1>
<p> <font size= "7" color="ffff00">Here you type your content</font></p>
</body>
</html>
```



**HTML body tag example**

**Here you type your content**

# Links

Links are used to connect your current webpage to somewhere else, such as another webpage, a local folder or an image.

The tag has the destination link inside, so when you click on the text it will take you to the destination link.

- `<a href="https://www.google.com/"> Click here </a>`
- `<a href="C:\"> Click here </a>`
- `<a href="C:\Users\Mustafa\Pictures\car.jpg"> Click here </a>`

# Links Example

```
<html>
<head>
<title>Stay Home</title>
</head>
<body text='ff0000' background="C:\Users\Mustafa\Pictures\palmtrees.jpg">
<h1>HTML body tag example</h1>
<p> <font size="5" color="00ff00"> to go to google
    <a href="https://www.google.com/"> Click here </a>
    <br> to go to partition c: <a href="C:\"> Click here </a>
    <br> to open a car image <a href="C:\Users\Mustafa\Pictures\car.jpg"> Click here
    </a></font></p>
</body>
</html>
```

## HTML body tag example

to go to google [Click here](#)  
to go to partition c: [Click here](#)  
to open a car image [Click here](#)

# Images

As a hyperlinked webpage, it can contain images beside texts.

Images can be brought (locally or off the internet) using this tag:

➤ ``

Width and height attributes allow you to choose a certain window size to display your image.

# Images Example

```
<html>
<head>
<title>Stay Home</title>
</head>
<body text='ff0000' bgcolor='aabbcc'>
<h1>HTML body tag example</h1>
<p> <font size="5" color="00ff00"> this is a picture of nature </font></p>
<br>

</body>
</html>
```

**HTML body tag example**

this is a picture of nature





## References

- References for more examples:

<https://www.w3docs.com/>

<https://www.w3schools.com/>



**End of Presentation**