

CT1501 DEVELOPMENT OF INTERNET APPLICATION

Creating a Web Page with HTML

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INTRODUCTION TO WWW

- The term **WWW** refers to the **World Wide Web** or simply **the Web**. The World Wide Web consists of all the public Web sites connected to the Internet worldwide, including the **client devices** (such as computers and cell phones) that access Web content. The WWW is just one of many applications of the Internet and computer networks.
- The World Web is based on these technologies:
 - HTML - Hypertext Markup Language
 - HTTP – Hypertext Transfer Protocol
 - Web servers and Web browsers



What is **HTML** ?

HTML is a shortcut of (**H**yper **T**ext **M**arkup **L**anguage).

It is the language which is used to create WebPages. It is not an ordinary programming language like C. For example it doesn't contain If statement or loops and when we need these statements we will include some scripts from Java or other languages.

It doesn't need any special Compilers. It doesn't need any special operating system software. It doesn't matter if your computer runs Windows, Unix, or Macintosh system software.

It needs only a **text editor** like Notepad to write HTML statements and an **Internet browser** like Internet Explorer in order to test your pages and make sure they look the way they should.

It is easy to learn HTML and it will take just few hours to learn how you can complete your WebPages.



How it works?

It is a collection of codes, it can be created from a simple text editor and saved as text file with the extension ".htm" or ".html"

What's a tag?

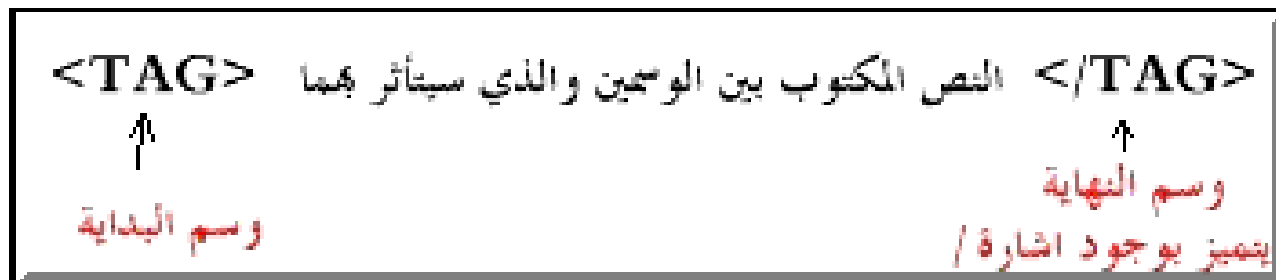
Tags are instructions that tell your Web browser what to show on the page

The name of an HTML tag is enclosed in angle brackets (< >).

Most tags are two-sided.

Opening tag tells the browser to start applying a feature.

Closing tag tells the browser to stop applying a feature.

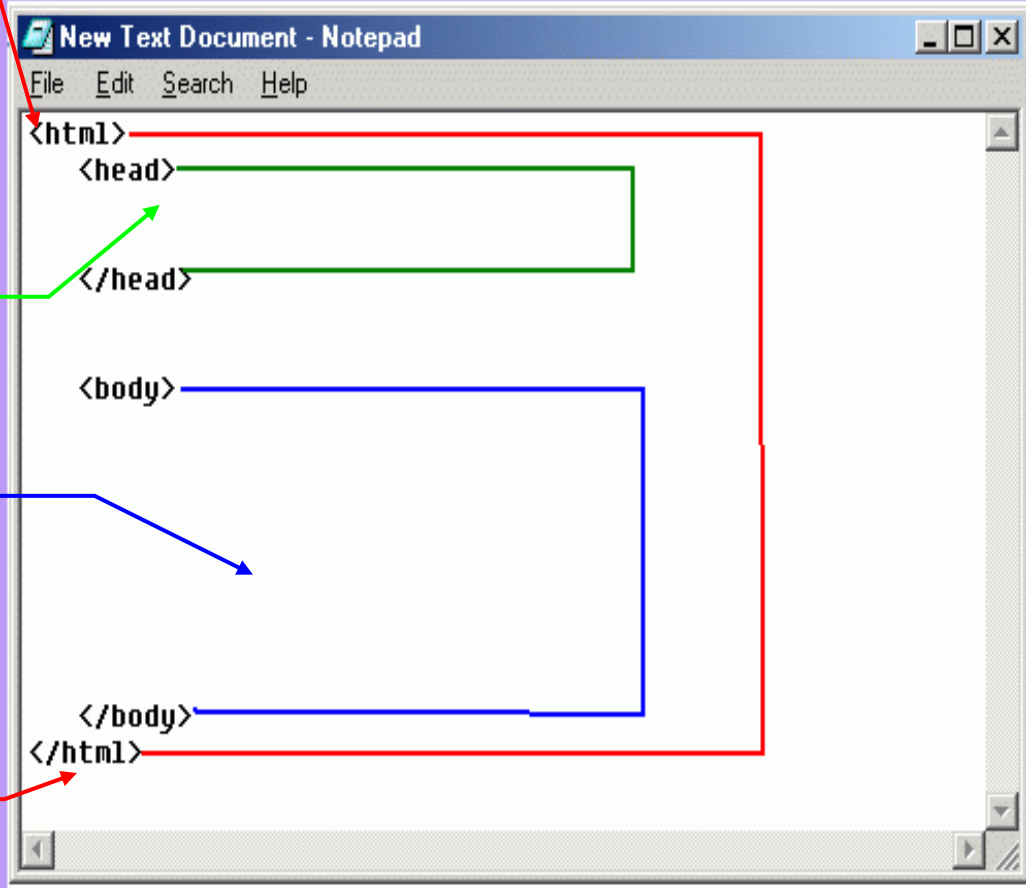


First tag `<html>` Indicates that you are starting an HTML document

`<HEAD>` [information about the document] `</HEAD>`

`<BODY>` [data to appear on browser page] `</BODY>`

Last tag `</html>` Indicates that you are ending an HTML document



A screenshot of a Notepad window titled "New Text Document - Notepad". The window contains the following HTML code:

```
<html>  
  <head>  
  </head>  
  <body>  
  </body>  
</html>
```

Color-coded arrows and boxes highlight the structure:

- A red arrow points from the first text box to the `<html>` tag.
- A green box surrounds the `<head>` and `</head>` tags, with a green arrow pointing from the second text box to the `</head>` tag.
- A blue box surrounds the `<body>` and `</body>` tags, with a blue arrow pointing from the third text box to the `</body>` tag.
- A red arrow points from the fourth text box to the `</html>` tag.

How to start?

Before you start designing the website, there are some steps you should follow:

Establish a separate **folder** for the website contents and name it "e.g. my new website".

Open the **notepad** program via:

start >> programs >> accessories >> notepad

then choose "file", "save as". A dialogue box will appear, choose the folder you have established before and in "file name" write "**index.html**".

You have established your website's first page by that and on which you will do some changes later.

Q: Why did I choose the name "index.html" for the first page?

A: I chose "index" because it is important for any website to have this name for its first page in order to download the website on the net. You can name the rest pages you will establish as you like.

On the other side, "html" is the special extension for websites.

Write the basic tags on the page as we explained before.



So, "html" folder always starts with `<html>` tag and ends with `</html>` .
While `<HEAD>` tag defines the beginning of the part that contains special information about identifying the page as the `title` shown on the browser's address bar. This title must be between two tags `<TITLE>` .. `</TITLE>`. To end this part, `</HEAD>` tag must be added.

Now, why don't you establish a page?

Open the "Notepad" program.

Write:

```
<HTML>
```

```
<HEAD>
```

```
<TITLE>My first HTML page</TITLE>
```

```
<HEAD/>
```

```
<BODY>
```

```
Wow I am Writing My First Page
```

```
<BODY/>
```

```
</HTML>
```



Before we continue, I want to remind you to some notes when creating WebPages.

There is no difference between writing tags either in English capital letters "UPPERCASE" or in English small letters "lowercase". So, you can write in any of them or even with them both.

Web browsers do not take additional spaces or the signs of ending paragraphs in consideration (i.e. when you press "Enter"). In other words, you can write your previous file as follows:

```
<HTML><HEAD><TITLE> My first HTML page </TITLE></HEAD><BODY>  
Wow, I'm writing my first webpage </BODY></HTML>
```



Or:

```
<HTML>
<HEAD>
<TITLE>
My
First
HTML
Page
< /TITLE>
< /HEAD>
<BODY>
Wow,
I'm
writing
my
first
Page
< /BODY>
< /HTML>
```



How do we add a new line, a paragraph or certain spaces?

**
 tag** allows us to add a new line **note:** this tag has no ending tag; a single tag"

<P></P> tag ends the paragraph with adding an empty line between paragraphs.

** tag** adds spaces between words **note:** it must be written in lowercase"

```
<HTML>
<HEAD>
<TITLE>
My first HTML page
< /TITLE>
< /HEAD>
<BODY>
Wow,
<BR> I'm writing my
<BR> first page
< /BODY>
< /HTML>
```

```
<HTML>
<HEAD>
<TITLE>
My first HTML page
< /TITLE>
< /HEAD>
<BODY>
Wow,
<P> I'm writing my
<P>first page
< /BODY>
< /HTML>
```

```
<HTML>
<HEAD>
<TITLE>
My first HTML page
< /TITLE>
< /HEAD>
<BODY>
Wow, &nbsp; &nbsp; &nbsp;
I'm &nbsp; &nbsp; &nbsp; writing
&nbsp; &nbsp;
&nbsp; my &nbsp; &nbsp; &nbsp;
first &nbsp; &nbsp; &nbsp; First
page< /BODY>< /HTML>
```

How do we choose text alignment?

<P ALIGN="CENTER"> text </P>

<P ALIGN="LEFT"> text </P>

<P ALIGN="RIGHT"> text </P>

Also for putting paragraphs in the center or objects generally in the page, <CENTER> ... </CENTER> tag can be used.

DIR feature

Which is also used with <P>, determines the direction of text reading. "LTR" value directs the text from "Left To Right" and "RTL" directs it from "Right To Left".

<p dir="RTL"> Wow I'm writing my first page</p>

How to format the text?

 for bold writing

<i> for italic writing </i>

<u> for underlined writing </u>



How do I establish a hyperlink?

First, we use this tag to start establishing the link

`<A>` ``

Which is the main tag to insert hyperlinks and it is an abbreviation to the word "Anchor". It does not work alone but demands adding special features first and most important of which is:

HREF

By which we link our website to the desired object (we must write the object's full address). It is an abbreviation to the word: **H**ypertext **REF**erence. This is the basic tag for the hyperlinks

` My First Page `

The link will appear as:

[My First Page](#)

