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**Topic: Course HTML**

**Year: 2025**

# **HTML**



**HTML** it is the language that defines the structure of a page on the internet,such as (heading, paragraph, images and table....).

# 1-Information Before Entering HTML:

**WWW (World Wide Web)**: it is a system that connects millions of websites and information on the Internet, so that you can browse them through a browser (chrome, Brave ...)

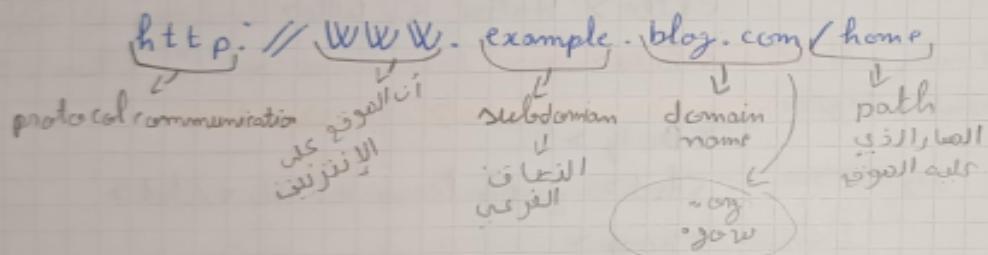
**Web Page**: is the basic unit of any website, located on a server, and accessible through a browser.

**Browser**: it is a program used to access the internet and view web pages, as it downloads content from servers and displays it to the user.

**Server**: it is a device or system that stores data and services (Web page and files ...) on the Internet, and allows other devices to access them on demand.

**Server location - IP Address**: You can access the web page using IP address, but, how to reach to web page. if use,

**URL: Unified Resource locator**



**how URL = IP Address ?**

**DNS (Domain Name System)**: it is a system that links website names (URL) to their numerical addresses (IP addresses) so that the browser can access the correct server when typing the website name.

youtube.com → DNS → 142.250.46

## 2-HTML Tags:

are what build the structure of a web and determine the type of each element.  
it usually consists of :

الكتور

العنصر `< tag >` Elements `</ tag >` نهاية

Each tag has a specific function, such as:

`<p>` → Text paragraph      `<h1>` to `<h6>` → addresses

`<a>` → lists      `<ul>` and `<li>` → link

but some self-closing tags like `<img>` and `<br>`, don't need an end tag.

## 3-Components HTML:

نحوه بالإنجليزية  
الصفحة (HTML) هي نصوص  
التي تحتوي على محتوى  
معلومات وصفحة غير مرئية

```
<!DOCTYPE html>
<html>
  <head>
    <title> Hatim </title>
  <head>
    <body>
      Tag Address <> <h1> goto learn HTML </h1>
      <body>
    <html>
```

## 4- Head:

give page information and function one outside the page and linked in CSS and JS, but are not visible to the user.

```
<meta charset="utf-8" /> ترتيب الـ HTML
<title> hatin </title> عنوان تبويب الصفحة
<meta name="description" content="Website cooking" /> ملخص صفحه
<meta ...="keywords" ...="html,css..." /> كلمات مفتاحيه
<meta ...="author" ...="hatin El bakhali" /> مؤلف الصفحة
<meta ...="viewport" ...="> ي调控 الصفحة
يطلب الصفحة كل 2 ثانية
<meta http-equiv="refresh" content="2" /> يطلب الصفحة كل 2 ثانية
<link rel="stylesheet" href="" /> يربط الصفحة CSS
<style></style> داخل الملف CSS
<script></script> JS ...
```

عنوان تبويب الصفحة  
وصف مختصر الصفحة  
المؤلف  
اسم مؤلف  
اللغة  
كلمات مفتاحية  
وصف محتوى  
اللغة بتسهيل البرق  
اللغة  
اللغة

## 5-Text:

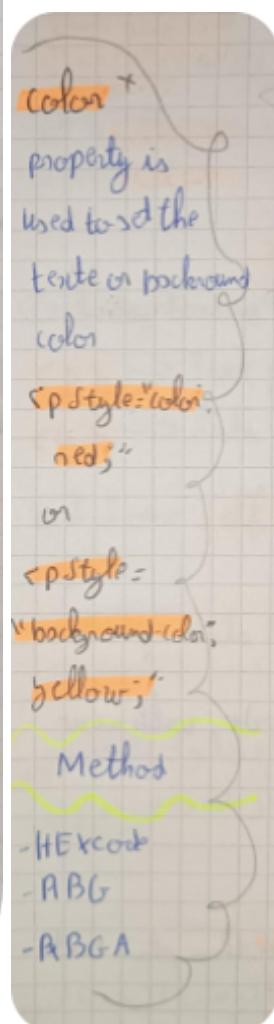
<code>&lt;p&gt; &lt;/p&gt;</code>	paragraph Block
<code>&lt;br&gt;</code>	<code>&lt;br&gt;</code> breaks the line within the same paragraph
<code>&lt;pre&gt; &lt;/pre&gt;</code>	(Block) Displays text as written in the code, with new space, and lines new.
	<code>&lt;span&gt; &lt;/span&gt;</code>

## 6-Text Formatting:

Tags specific format text such as:	
<code>&lt;small&gt; &lt;/small&gt;</code>	: Used to make text appear 80% smaller than plain text
<code>&lt;b&gt; &lt;/b&gt;</code>	<code>&lt;strong&gt; &lt;/strong&gt;</code>
make text bold only	Bold additional meaning (important, certain).
<code>&lt;i&gt; &lt;/i&gt;</code>	<code>&lt;em&gt; &lt;/em&gt;</code>
make text italic only	<code>&lt;i&gt; &lt;/i&gt;</code> but used in quote or sayings

<code>&lt;mark&gt; &lt;/mark&gt;</code> : Text appears with a yellow background by default in most browsers, This <span style="background-color: yellow;"> </span> . used to emphasize or highlight important words in text.	
--	--

<code>&lt;u&gt;</code>	<code>&lt;ins&gt;</code>
make text underlined <u>Atom</u>	like <code>&lt;u&gt;</code> , but meaning it is new text added
<code>&lt;s&gt;</code>	<code>&lt;del&gt;</code>
make text There is a line in the middle.	like <code>&lt;s&gt;</code> , but meaning text deleted.
<code>&lt;sub&gt;</code>	<code>&lt;sup&gt;</code>
Display text that is slightly smaller and lower than the main line, usually used in: chemical formulas $(H_2O)$	Display text slightly smaller and raised above the line $(H_2O)$



# 7-Image:

b-Image: \*

Used to insert an image into a page.

Title = "this is Spider-Man"

path 1

 Sing Sac - "SpiderMan" Jpg

' alt "SpiderMan" width = "300" /

## دُوَّبَةُ الْجِمَعَةِ

height: "200"

مکانیزم  
اللئے

100

# 8-Audio:

use to insert an **audio** into a page.

→ you can add loop or muted and autoplay

~~with sound~~ <audio control>

E 21 mp3, word,

<source src="Laugh.mp3" type="audio/mp3">

<audio>

# 9-Video:

use to insert an **video** into a page -

Thumbnails ترتيب القصص

polish

```
<Video control width="100%" muted autoplay poster="1.png" preload="none">
```

Source Src = "Native.mp4" type = "Video/mp4">

```
<track default="" kind="" label="" />
```

track dropdown:  
new src = " "

→ languages

یعنی  
اللہ قادر (و)

لتر ١٥ الذي  
تطهر تلغاش

subdts

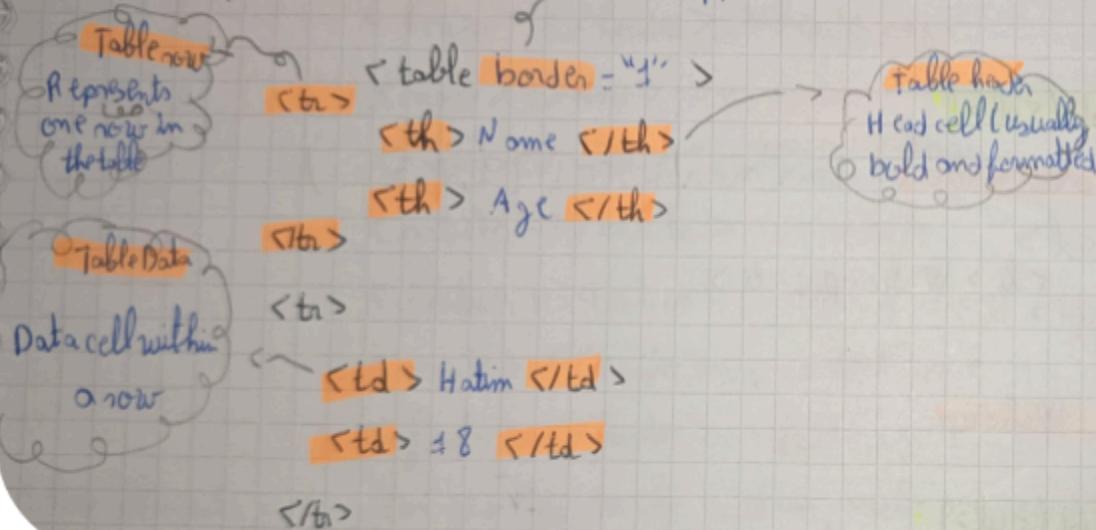
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## 10-Table:

Used to display data in rows and columns like tables in Excel.

Infrastructure:

Not support in HTML5



**Colspan**: it is a property used within the tag <td> or <th> to merge multiple columns into a single cell (horizontal merge).

**Rowspan**: it is a property used within the tag <td> or <th> to merge multiple rows into a single cell (vertical merge).

Ex:

```
{<tr>
  <th rowspan="2">country</th>
  <th colspan="2">city</th>
}</tr>
```

**cellspacing**: distance between cells (meaning external space) like the distance between house and house.

**cellpadding**: The space inside the cell between the text and its borders.

Ex:

```
<table border="1" cellspacing="20" cellpadding="10">
```

**organized tables**:

**<thead>(Table Head)**: contains heading rows (such as column headers).

**<tbody>(Table body)**: contains normal data in the table.

**<tfoot>(Table foot)**: contains rows below the table (such as totals or notes).

## 11-List:

### 11-1-Ordered List (**<ol>**):

Used when the order matters - items are numbered (1, 2, 3, ...)

Ex:

```
<ol>  
  <li> Wake up </li>
```

Output:

```
1. Wake up
```

### 2-Unordered list (**<ul>**):

Used When the order does not matter - items shown with bullets.

Ex:

```
<ul>  
  <li> oranges </li>
```

```
</ul>
```

Output:

```
• oranges
```

## 11-2-Unordered List (<ul>):

Used When the order does not matter - items shown with bullets.

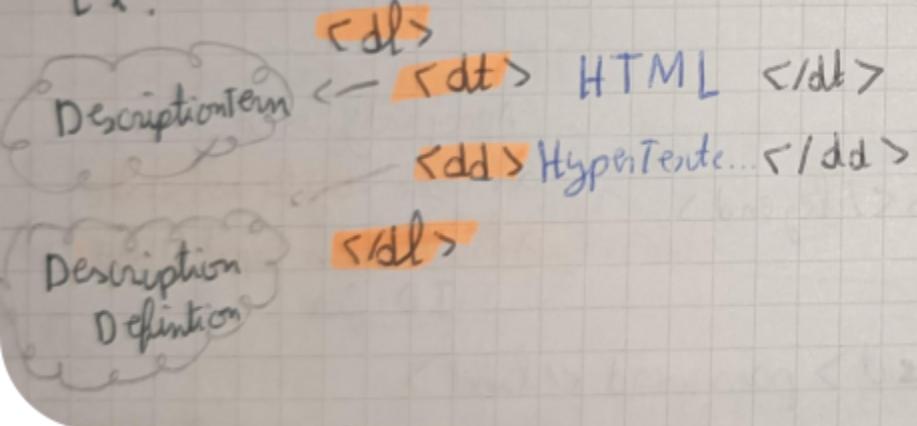
Ex: <ul>  
    <li>oranges </li>  
    </ul>

} output:  
    • oranges

## 11-3-Description List (<dl>):

Used for terms and their descriptions - like a dictionary.

Ex:



## 12-Semantic Elements:

it is a element that clearly describe their meaning to both the browser and the browser and the developer.

## 12-1-Non Semantic Elements:

These do not explain the meaning of the content within them, they are only used elements

for division or formatting.

Ex:

`<span></span>` or `<div></div>`

inline

block

## 12-2-Semantic Element:

`<header></header>` → header page

`<nav></nav>` → navigation menu

`<main></main>` → main content

`<article></article>` → article

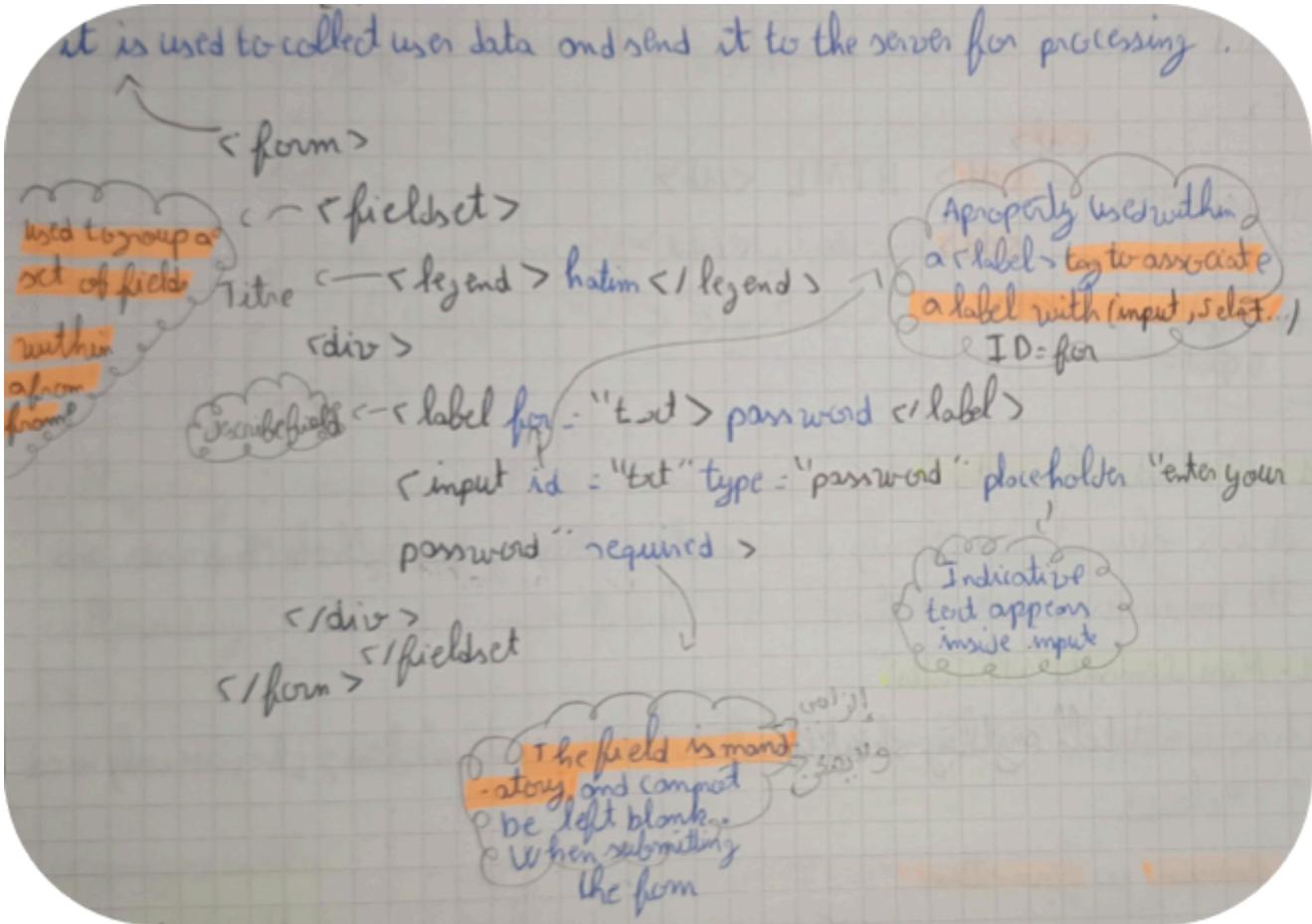
`<section></section>` → section of the page

`<aside></aside>` → content aside

`<footer></footer>` → footer page

These elements give a clear meaning to the content, such as `<nav>` containing navigation links.

## 13-Form:



## 14-Link:

two tags: `<a></a>` or `<link></link>`

The user to navigate  
between page

The browser uses  
it to link files `(css)`  
`JS - .js`

`<a href = "https://github.com">`  
Github `</a>` #Id: Nation  
name: link  
Id: Nation

target: it is a property that specifies where link  
will open when the user clicks on it (-self, -blank)

`<link rel = "stylesheet"`  
`href = "Style.css"`

## 15-Input Action Methode:

Specifies how data is sent. There are two basic methods:

- Get: sends data in a URL

Ex: submit.php?username=hann&password=1234

but suitable for non-sensitive data.

- Post:

Sends data into the request body (request body). More secure for sensitive data such as passwords.

<form method="post">

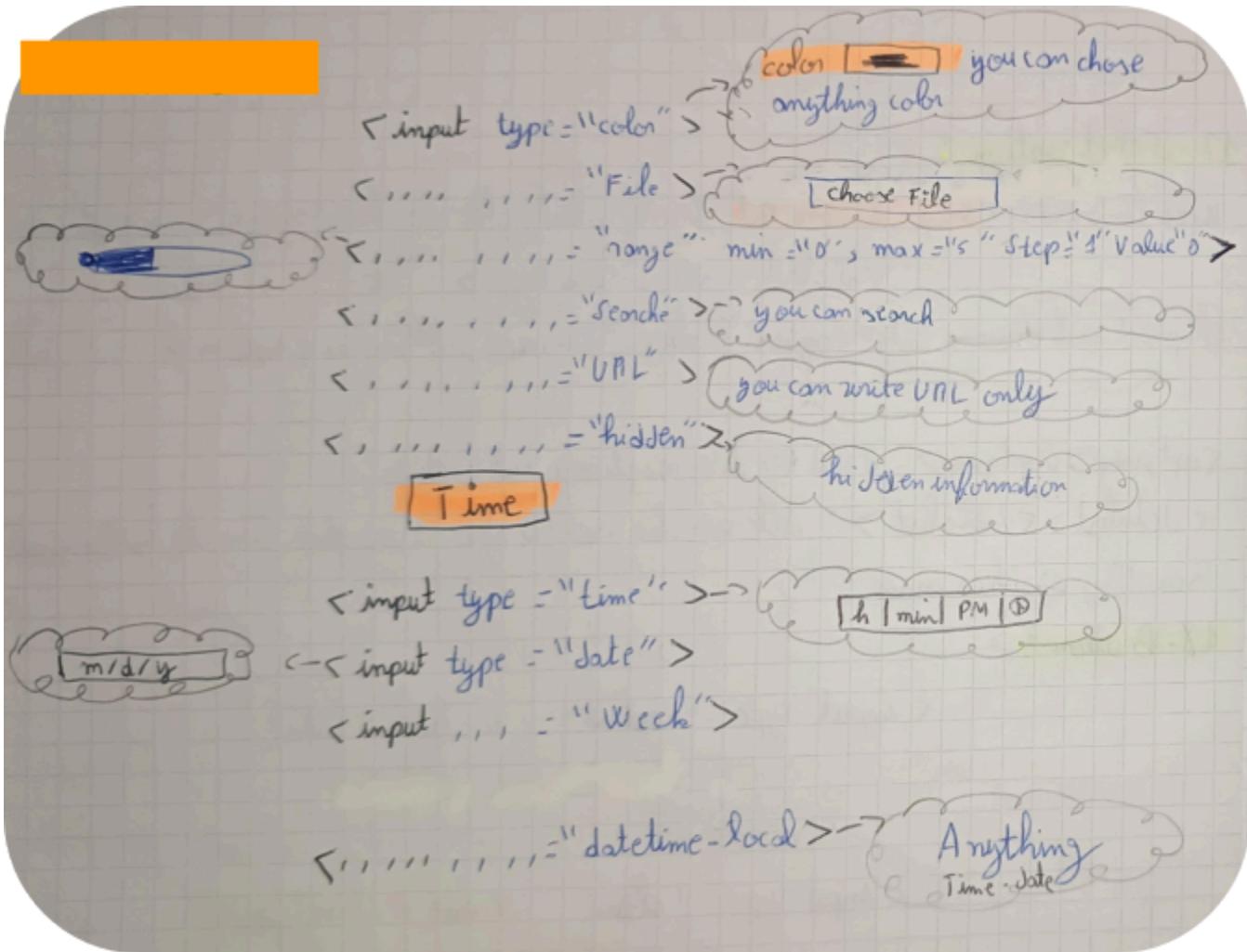
### 15-1-Name:

e-name:

will

name the field that's send to server.

## 16-Input Type:

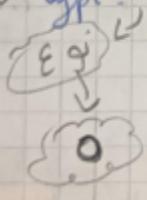


## 16-Check Box or Radio Box:

### 16-1-Radio Box:

it is used to allow the user to choose only one option from a set of options.

```
<input type="radio" value="html" name="x">
```

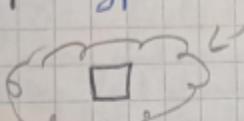


هي اسهم الرجع الالى بالرغم  
يعرف المقاوم ما نوع البرنامج و  
متى نوع الملفاته وفريدة عبء  
البيانات من نفسها

### 16-2-Check Box:

Used to allow the user to choose one or more from a set of options.

```
<input type="checkbox" >
```



## 17-Select Option:

Used To create a drop-down list from which the user chooses one or more options

<select name="country">

(Represent each choose in list) <option value="morocco">Morocco</option>

<optgroup></optgroup> : Used to divide options into option.

<datalist></datalist> : Allows the user to choose an option from the list to type something of their own.

## 18-Button:

<input type="submit" value="Submit"

(Send information  
service)

<input type="reset" value="clear" >

(Clear information)

## 19-Validate Textarea:

it is used to create a multi-line text area in which the user can type long text (such as as notes...)

<textarea></textarea>

## 20-Download:

```
<a download href = "hatim.jpg"> content </a>
```

Important  
service download