

Web development: Makes webpage itself

Web design: Makes look of website

HTML - Markup Language, not  
coding language

## Basic Features of HTML

Made of tags - special texts that distinguish parts of webpage

<b> - Bold tag (opening) > text in b/w  
</b> - Bold tag (closing) > Bolded

For real HTML on Net, need to add more tags for everything to work properly

First tag needed is the Doctype tag

<!DOCTYPE html>

Tells browser this is an html 5 doc

Now, html 5 is the only doctype used

Then, there's html tags that tells browser everything inside <html> .. </html> is html, ensures content inherits characteristics of html

Within html tag, separated into

<head>

</head>

and

<body>

</body>

contain info about  
website and load  
CSS and JS files

Main content  
in webpage,  
what is visible

Basic Tags used in head  
(Most often)

<meta charset = "utf-8">

L Translates letters,  
numbers, symbols we  
use into bytes

Type of unicodes in  
coding used in  
basically all websites

★ Like a Human - Computer Dictionary

`<meta name = "viewport"  
content = "width=device-width,  
initial-scale=1">`

↳ Important for responsive websites  
to open on any device

`<title> ~ ~ </title>`

↳ Sets title of webpage, if multiple  
pages, each page can have own title

Basic Tags used in body  
(Most often)

Most body tags based off things  
you can do in a Word doc - headlines,  
bold text, lists, tables

↳ Before CSS, these were used for  
style and organization

`<h#>` ~ ~ `</h#>`

L # can be 1, 2, 3, 4, 5, 6 with 1 as the highest priority header tag

`<p>` ~ ~ `</p>`

L p tag separates contents into blocks, makes paragraphs

★ HTML doesn't auto break lines, entering spaces between text in code, it won't change anything on page.

HTML also only allows one space in a row, more won't do anything

`<br>`

L break tag essentially acts as an enter, can use multiple to create spaces b/w content

L no closing tag since it doesn't surround text

L These tags are called void elements

## Style Body tags

★ Aren't used as much anymore  
due to CSS styling

`<b> ~ ~ </b>`

text in btw  
Bolded

`<i> ~ ~ </i>`

text in btw  
italicized

`<u> ~ ~ </u>`

text in btw  
underlined

`<em> ~ ~ </em>`

Same

`<strong> ~ ~ </strong>`

Same

`<hr>`

L horizontal rule tag, adds horiz. line as separator

`<a href = "www"> www </a>`

hyper text reference, ]  
url where the link  
will go to, opens s stands for anchor  
in same page

L a tag AKA link tag,

s stands for anchor

\* Link connects 2 websites like  
anchor connects boat to sea floor

`[<a href = "www" target = "_blank"]`

\* Adding this attribute to a tag  
will open link in new page/tab

`<img src = "www">`

L image tag uses source attribute to  
display image on page

`[<img src = "www" border = "10"]`

\* This attribute adds 10 pixel border  
around image

## List tags in Body

<ul>

```
<li> apple </li>
<li> oranges </li>
<li> pineapples </li>
<li> mangoes </li>
<li> dragon fruit </li>
```

</ul>



Shows unordered (bulleted) list as follows:

- apple
- oranges
- pineapples
- mangoes
- dragonfruit

<ol>

- <li> apple </li>
- <li> oranges </li>
- <li> pineapples </li>
- <li> mangoes </li>
- <li> dragon fruit </li>

</ol>



Shows ordered (numbered) list as follows:

1. apple
2. oranges
3. pineapples
4. mangoes
5. dragonfruit

## Nested Lists in Body

<ul>

<li> apples

<ul>

child

elements

<li> golden delicious </li>

<li> granny smith </li>

<li> gala </li>

</ul>

</li>

<li> oranges </li>

<li> pineapples </li>

<li> mangoes </li>

<li> dragon fruit </li>

Shows up as :

roven +  
apples

W.  
Golden delirious  
Granny Smith  
Gala

- ④ oranges
- ④ pineapples
- ④ mangoes
- ④ dragonfruit

## Tables in Body

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

</table>

- Border size around outside of table
- cellpadding is space inside cell
- cellspacing is space btw cells

$\langle tr \rangle$   
 $\langle th \rangle$  A  $\langle /th \rangle$   
 $\langle th \rangle$  B  $\langle /th \rangle$   
 $\langle th \rangle$  C  $\langle /th \rangle$   
 $\langle /tr \rangle$

Inside  
 $\langle table \rangle$   
 :

$\langle tr \rangle$   
 $\langle td \rangle$  1  $\langle /td \rangle$   $\langle /tr \rangle$   
 $\langle td \rangle$  2  $\langle /td \rangle$   
 $\langle td \rangle$  3  $\langle /td \rangle$

$\langle tr \rangle$        $\downarrow$   $\downarrow$   
 $\downarrow$   $\downarrow$

A	B	C
1	2	3

$\langle \text{th} \rangle \sim \langle \text{/th} \rangle$  has an attribute  $\langle \text{th} \text{ colspan} = "2" \rangle$  such that

$\langle \text{th} \text{ colspan} = "2" \rangle \quad B \quad \langle \text{/th} \rangle$

↓      ↓

A	B	C
~	~	~
~	~	~

$\langle \text{td} \rangle \sim \langle \text{/td} \rangle$  has an attribute  $\langle \text{td} \text{ rowspan} = "2" \rangle$  such that

$\langle \text{td} \text{ rowspan} = "2" \rangle \quad | \quad \langle \text{/td} \rangle$

↓      ↓

A	B	C
1	2	3
~	~	~