

Html,

HTML

Hyper Text Markup Language

- is the standard markup language for creating Web pages
- describes the structure of a Web page
- consists of a series of elements
- tells the browser how to display the content

```
<!DOCTYPE html> → defines that it is an HTML5 doc.  
<html>  
<head> → contains meta information about the HTML page  
<title> Page title </title>  
</head>  
<body> → is a container for all the visible contents  
      <h1> My First Heading </h1>  
      <p> My first paragraph. </p>  
</body>  
</html>
```

HTML page structure:

```
<html>
```

```
  <head>
```

```
    <title>Page title</title>
```

```
  </head>
```

```
<body>
```

```
    <h1>This is a heading</h1>
```

```
    <p>This is a paragraph.</p>
```

```
    <p>This is another paragraph.</p>
```

```
  </body>
```

```
</html>
```

HTML hyperlinks:

< a href = "https://www...." > This is a link

Tags:

<dogmorn> Content goes here </dogmorn>

The purpose of a web browser, be it Chrome, Firefox, Edge or Safari, is to read an HTML document and display it.

The browser does not display the HTML code. Instead, it uses it to determine how to display the document.

nested elements

 = new line

→ it is an element with no content

HTML tags are not case sensitive

Images:

Style:

<p style = "color: red" > ... </p>

Language:

<html lang = "fr" > → French

Title:

<p title = "I am a tooltip" > </p>

" " "
" " "
, =>,

HTML headings make titles and subtitles stand out in the view of words on a webpage.

```
<h1> Heading 1 </h1>  
<h2> Heading 2 </h2>  
<h3> Heading 3 </h3>  
<h4> Heading 4 </h4>  
<h5> Heading 5 </h5>  
<h6> Heading 6 </h6>
```

Heading 1
Heading 2
Heading 3
Heading 4
Heading 5
Heading 6

```
<h1 style="font-size: 60px; color: red"> Heading 1 </h1>
```

HTML photographs

LESS = The language we use to style HTML

Style:

```
<body style="background-color: lightgreen;">
```

-powderblue
red

```
<h1 style="color: blue;"> This is a heading </h1>
```

```
<h1 style="font-family: verdana;"> Heading 1 </h1>  
courier
```

```
<h1 style="text-align: center;"> Heading </h1>
```

HTML Formatting

 - Bold text

 - Important text

<i> Italic text

 Emphasized text

<mark> Marked text = highlighted text

<small> - Small text =

 Deleted text = Crossed out text

<ins> Inserted text

<sub> Subscript text

<sup> Superscript text

<p>Hello world!</p>

Browsers display as , and as <i>.

<!-- This is a comment -->

HTML colors:

→ supports 140 predefined color names

<hi style="border: 2px solid yellow;"> Hi </hi>

using RGB or hex → more than 16 million color possibilities

rgb(0, 0, 255)

RED

GREEN

BLUE

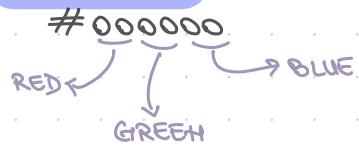
→ it defines the intensity of the color between 0 and 255

black = rgb(0, 0, 0)

white = rgb(255, 255, 255)

grey = rgb(x, x, x)

Hex values:



red: #ff0000

Rgba value:

rgba(red, green, blue, opacity)

↳ opacity

~ a number between 0.0 and 1

HTML & CSS:

• inline: `<p style="color: blue;">This is a poto</p>`

• internal: `<!DOCTYPE html>
<html>
<head>
<style>
body { background-color: -pantblue; }
p { color: red; }
</style>
</head>
<body>
<p> This is a paragraph </p>
</body>
</html>`

• external

`<!DOCTYPE html>
<html>
<head>
<link rel="stylesheet" href="style.css">
</head>
<body>
<p> Paragraph </p>
</body>
</html>`

Table

<table>

<tr> → TABLE ROW

<th> Company </th> → TABLE HEADINGS

<th> Continent </th>

<th> Country </th>

</th>

<td>

<dd> Siemens </dd> → TABLE DATA

<dd> Afrikaans Nederland </dd>

<dd> England </dd>

</td>

</table>

List → ordered list (has numerical or alphabetical markers)
→ unordered list (has bullet markers)

ORDERED LIST: → numerical by default

 Coffee

1. Coffee

 Tea

2. Tea

 Milk

3. Milk

<ol style="list-style-type: upper-alpha;">

- roman (I, II...)

A. Coffee

B. Tea

C. Milk

UNORDERED LIST:

• • •

<ul style="list-style-type: circle;">

square
none

```
<div>  
<button>  
<span>
```

Classes:

→ used to group elements

```
<!DOCTYPE html>  
<html>  
<head>  
<style>  
  .my-group {  
    background-color: red;  
  }  
</style>  
</head>  
<body>  
<h1> Heading </h1>  
<p> This is a paragraph. </p>  
<p class="my-group"> This is another paragraph. </p>  
<p class="my-group"> This is also a paragraph. </p>  
</body>  
</html>
```

HTML elements can belong to more than one class.

```
<p class="my-group main"> Para </p>
```

ID attribute:

- specifies a unique ID for HTML element
- to track a specific element in a page
- is versatile (HTML, JavaScript, CSS)

```
<!DOCTYPE html>
<html>
<head>
<style>
#myHeader {
    background-color: lightblue;
    color: black;
    padding: 10px;
    text-align: center;
}
```

y

```
</style>
</head>
<body>
<h2>This is an attribute </h2>
<p>I call "myHeader": </p>
<h1 id="myHeader">My Header </h1>
</body>
</html>
```

```
<!DOCTYPE html>
<html>
<body>
<a href="#C3">Jump to Chapter </a>
<h2>Chapter 1 </h2>
<p>This chapter explains </p>
<h2>Chapter 2 </h2>
<p>This chapter explains </p>
<h2 id="#C3">Chapter 3 </h2>
<p>This chapter explains </p>
</body>
</html>
```

BOOK
WORK

- The id attribute can be used on any HTML attribute.
The id value is case-sensitive.
The id value must be at least 1 character, and cannot contain whitespace.
Each id must be unique within the page.

Iframes:

→ used to display a webpage within a webpage

```
<iframe src = "decks.html"></iframe>
```

↓
out of source

%

(iframe)

→ by default, it has a border around itself.

`style = "border: none;"` → to remove it.

→ can be used as the target frame for a link

```
<iframe src = "decks.html" name = "iframe-a"></iframe>
<p><a href = "https://www.w3schools.com" target = "iframe-a">
W3Schools.com </a></p>
```

The head element:

→ is a container for meta-data



meta about data

→ a lot of what goes on inside the head element is not directly shown on the page.

→ defines the document title, styles, script, character set.

defines the
title of the
document
(tab)

Form:

→ effects user's input

<form>

```
<input type="text" name="firstname">
<!-- CHECKBOXES for many options -->
<input type="checkbox" name="vehicle1"
      value="Bike" checked> I have a bike <br>
<input type="checkbox" name="vehicle2"
      value="Car" > I have a car <br>
<input type="checkbox" name="vehicle3"
      value="Boat" checked> I have a boat <br>
<!-- RADIOS for one option -->
<input type="radio" name="gender"
      value="male" checked> Male
<input type="radio" name="gender"
      value="female" checked> Female
<input type="radio" name="gender"
      value="other" checked> Other
```

</form>

<select> used for a drop down list

<textarea> for a comment field

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