1. **INTRODUCTION**

**HTML (Hypertext Markup Language) is not a programming language.** It is a description language that defines the appearance of a document using a simple text editor. An HTML page is just a sequence of elements.

**2. TAGS**

HTML is a markup language where each tag inserts an element into the web page. Each tag has a name and appears between the **<** and **>** symbols.

We can distinguish:

* **Container tags:** Tags that require a closing tag, e.g., <p>This is a paragraph</p>.
* **Non-container tags:** Tags that do not require a closing tag, e.g., <br/>. A tag itself is not part of the content.
* **A tag provides information about the content.**
* **All used tags must be properly closed** (e.g., <p></p>, or <br />).
* **Tags should never overlap:**
	+ ✅ Correct: <b><i>...</i></b>
	+ ❌ Incorrect: <b><i>...</b></i> (this will not work).
* **Element and attribute names are usually written in lowercase,** but <head> and <HeAd> are equivalent.
* **It is possible to add comments in HTML:** <!-- This is a comment -->.

**3. ATTRIBUTES**

* Attributes are inserted in the opening tag and consist of two parts: the attribute name and its value.
* The value must be enclosed in quotation marks, and the attribute name and value are linked with the = sign.
* A tag can have one or multiple attributes.

**Example 1**

**<html>**

**<head>**<title>Mon Site</title></head>

**<body** bgcolor="red">

<p align="center" title="Une Infobulle">Hello world</p> <!--attribut align et title: une info-bulle-->

**</body>**

**</html>**

**II. Structure of an HTML Document (Title, Text, Attributes, Formatting)**

**Note:** You can test each step using any web browser.

1. **Create the necessary directories:**
	* On the **D:** drive, create a new folder named **Gx**, then a subfolder called **TP1DAW**.
2. **Open a text editor (e.g., Notepad++) and type the following essential HTML tags:**

**<html>**

**<head><title></title></head>**

**<body></body>**

**</html>**

1. **Set the title of your page** by inserting your name (replace "Flene" with your actual name) between the <title> tags:

**<head><title>La page de Flene</title></head>**

* + This title will appear in the browser’s title bar.
	+ All other page elements should be placed between the <body> tags.
1. **Save the file as** page1.html in the TP1DAW directory.
2. **Set the background color of the page** by placing this line after the <body> tag:

**<body bgcolor=#b6be78>**

1. **Add a heading with a welcome message** using <h1> tags:

**<h1>Bienvenue dans la page Web de Flene</h1>**

1. **Display text in font size 4** with green color:

**<font color=#008000><h4>Je suis étudiant au Centre Universitaire de Mila</h4></font>**

1. **Insert three line breaks** before adding a return link: **</br></br></br>**
2. **Create an anchor point (arrival anchor) at the top of the page:**

**<h1><a name="haut de page">Bienvenue dans la page Web de Flene</a></h1>**

1. **Create a link (departure anchor) to return to the top of the page:**

**<a href="#haut de page">Retour au début de page</a>**

**Example 2**

The full code is as follow:

**<html>**

**<head>**

**<title>La page web de Flene**

**</title>**

**</head>**

**<body bgcolor=#b6be78>**

**<h1> <a name="haut de page">**

**Bienvenue dans la page web de Flene</a>**

**</h1>**

**</br></br>**

**<font color=#008000>**

**<h4>Je suis étudiant au Centre Universitaire de Mila </h4>**

**</font>**

**</br></br></br>**

**<a href="#haut de page">Retour au début de page</a>**

**</body>**

**</html>**

**Text formatting**

|  |  |
| --- | --- |
| **Tag** | **Role** |
| <B>...</B> | Bold text |
| <BIG>...</BIG> | Enlarges the font size |
| <BLINK>...</BLINK> | Blinking text (Netscape only) |
| <EM>...</EM> | Italic text |
| <FONT color="#XXXXXX">...</FONT> | Colored text where XXXXXX is a hexadecimal value |
| <FONT size=X>...</FONT> | Font size where X is a value from 1 to 7 |
| <I>...</I> | Italic text |
| <NOBR>...</NOBR> | Prevents automatic line breaks in browsers |
| <PRE>...</PRE> | Preformatted text, preserving spaces and line breaks |
| <SMALL>...</SMALL> | Reduces font size |
| <STRONG>...</STRONG> | Bold text |
| <SUB>...</SUB> | Subscript text |
| <SUP>...</SUP> | Superscript text |
| <U>...</U> | Underlined text |
| <!--...--> | Comment ignored by the browser |
| <BR> | Line break |
| <BLOCKQUOTE>...</BLOCKQUOTE> | Quotation (adds text indentation) |
| <CENTER>...</CENTER> | Centers all content within the tag |
| <DIV align=center> ...</DIV> | Centers the enclosed element |
| <DIV align=left> ...</DIV> | Aligns the enclosed element to the left |
| <DIV align=right> ...</DIV> | Aligns the enclosed element to the right |
| <Hx>...</Hx> | Heading where x is a value from 1 to 7 |
| <Hx align=center>...</Hx> | Centered heading |
| <Hx align=left>...</Hx> | Left-aligned heading |
| <Hx align=right>...</Hx> | Right-aligned heading |
| <P>...</P> | New paragraph |
| <P align=center>...</P> | Centered paragraph |
| <P align=left>...</P> | Left-aligned paragraph |
| <P align=right>...</P> | Right-aligned paragraph |