**HTML**

**Basic Syntax:**

**<html>**

**<head>**

**<title> First WebPage </title>**

**</head>**

**<body>**

**<h1>hello usbm </h1>**

**</body>**

**</html>**

**<html>**

* This is the **root element** of any HTML document.
* It tells the browser, **"This is an HTML document."**
* All your webpage content goes inside this tag.

**<head>**

* The <head> section contains **meta-information** about the webpage.
* It doesn’t display content on the actual page.
* It may include the title, styles, scripts, or links to external files.

**<title> First Webpage </title>**

* This defines the **title of the webpage**.
* It appears on the **browser tab** (not inside the webpage).
* Here, the title will be shown as **"First Webpage"** on the tab.

**</head>**

* This **closes the <head> section**.
* No more metadata should go after this.

**<body>**

* The <body> tag defines the **visible content** of the webpage.
* Everything inside this tag is **displayed** in the browser window.

**<h1>hello usbm </h1>**

* <h1> is a **heading tag**. It represents the **largest heading** in HTML.
* It is used to show important titles or headlines.
* On your page, it will display:  
  **hello usbm** (in bold and large text)

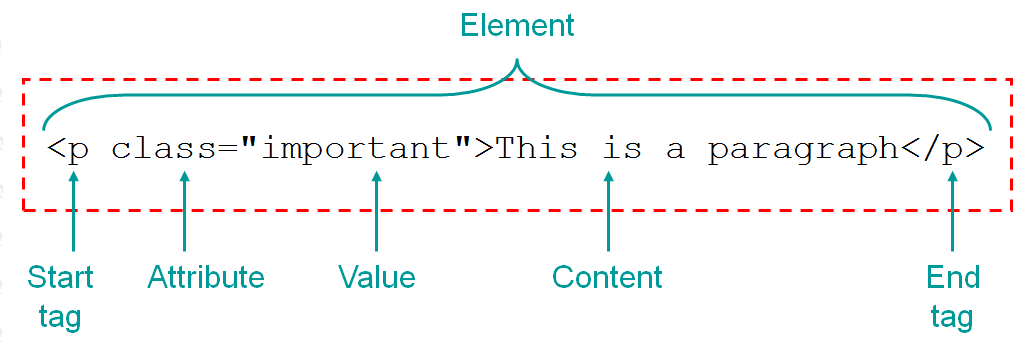
**</body>**

* This **closes the body section**.
* No content should be placed after this inside the body.

**</html>**

* This is the **end of the HTML document**.
* It closes the <html> tag that started at the top.

**Understanding the Structure of an HTML Element**

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**1. Start Tag**

* Syntax: <p class="important">
* This tag **starts** the HTML element.
* <p> indicates a **paragraph**.
* It may include **attributes** like class, id, etc.

**2. Attribute**

* class
* An attribute provides **additional information** about an element.
* Here, class is used to apply CSS styles or identify the element.

**3. Value**

* "important"
* This is the **value assigned to the attribute**.
* In this case, the paragraph belongs to the class "important".

**4. Content**

* This is a paragraph
* This is the **actual text or content** that will be shown in the browser.

**5. End Tag**

* </p>
* The closing tag marks the **end** of the element.
* The / symbol distinguishes it from the start tag.

**6. Element**

* The **entire structure** from <p> to </p> is called an **HTML element**.
* It includes:
  + Start tag
  + Attributes (and their values)
  + Content
  + End tag

**Types of Html Tags:**

HTML tags can be of two types:

**a) Paired Tags**

**b) Singular Tags (Unpaired Tags)**

**1. Paired Tags (Container Tags)**

These tags come in **pairs**—an **opening tag** and a **closing tag**.

**Syntax**:

<tagname> content </tagname>

**Examples**:

* <html> ... </html>
* <head> ... </head>
* <body> ... </body>
* <h1> ... </h1>
* <p> ... </p>
* <title> ... </title>
* <div> ... </div>

**Use**: These tags **enclose content** and apply formatting or structure to that content.

**2. Unpaired Tags (Self-closing Tags)**

These tags **do not require a closing tag** because they don’t enclose any content.

**Syntax (HTML5)**:

<tagname>

**Syntax (XHTML style)**:

<tagname />

**Examples**:

* <br> → line break
* <hr> → horizontal line
* <img> → image tag
* <input> → form input field
* <meta> → metadata
* <link> → used to link external resources like CSS

**Use**: These tags are used to **insert something** or define an element that **doesn’t require a body of content**.

**HTML Text Formatting Tags**

**1. Heading Tags (<h1> to <h6>)**

* Used to define headings.
* <h1> is the largest; <h6> is the smallest.

<h1>Main Heading</h1>

<h6>Smallest Heading</h6>

**2. Paragraph Tag (<p>)**

* Used to define a paragraph of text.
* Automatically adds space before and after the text.

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

**3. Line Break Tag (<br>)**

* Inserts a line break (new line) without starting a new paragraph.
* It’s an **empty (unpaired) tag**.

Hello<br>World

**4. Horizontal Rule (<hr>)**

* Draws a horizontal line across the page.
* Often used to separate content sections.

<hr>

**5. Bold Tag (<b>)**

* Makes the text **bold**, without implying importance.

<b>This text is bold. </b>

**6. Strong Tag (<strong>)**

* Also makes text bold, but **emphasizes importance** (semantic).

<strong>Important text! < /strong>

**7. Italic Tag (<i>)**

* Makes the text **italic**, typically for styling.

<i>This text is italic. < /i>

**8. Emphasis Tag (<em>)**

* Also italicizes text, but adds **emphasis** (semantic).

<em>Emphasized text. < /em>

**9. Underline Tag (<u>)**

* Underlines the text.

<u>This text is underlined. < /u>

**10. Center Tag (<center>) (*Deprecated in HTML5)***

* Center the content horizontally.
* Use CSS (text-align: center;) instead for modern HTML.

<center>This text is centered. < /center>

**11. Mark Tag (<mark>)**

* Highlights text with a yellow background.

<mark>Important point</mark>

**12. Small Tag (<small>)**

* Reduces the font size.

<small>This is smaller text. < /small>

**13. Delete Tag (<del>)**

* Displays **deleted** or removed text (crossed out).

<del>Old Price</del>

**14. Insert Tag (<ins>)**

* Shows **inserted** (new) text, usually underlined.

<ins>New Price</ins>

**15. Superscript (<sup>) and Subscript (<sub>)**

* <sup>: Raises text (e.g., exponents).
* <sub>: Lowers text (e.g., chemical formulas).

H<sub>2</sub>O | X<sup>2</sup>

**Example**:

<html>

<head>

<title>First WebPage</title>

</head>

<body bgcolor="lightblue">

<h1 align="center">Hello USBM - H1</h1>

<h2 align="left">This is H2 Heading</h2>

<h3 align="right">This is H3 Heading</h3>

<h4>This is H4 Heading</h4>

<h5>This is H5 Heading</h5>

<h6>This is H6 Heading</h6>

<hr color="black" size="3">

<p align:justify;">

<b>This is bold text.</b><br>

<u>This is underlined text.</u><br>

<i>This is italic text.</i><br><br>

This is a sample paragraph to demonstrate <b><i><u>text formatting</u></i></b> and

<b>alignment</b> using HTML tags and attributes.<br>

We are learning how to format content in <b>HTML</b> using basic tags and styles.

</p>

<hr>

<center>

<p>This is a centered paragraph using the center tag. </p>

</center>

<p align="right">This paragraph is aligned to the right using align="right"</p>

<p align="left">This paragraph is aligned to the left using align="left"</p>

<p align="center">This paragraph is aligned to the center using align="center"</p>

</body>

</html>

**Marquee Tag in HTML**

**Definition:**

The <marquee> tag is used to create scrolling (moving) text or images on a web page.

**Syntax:**

<marquee>USBM-MCA (BATCH 2024-2026) </marquee>

**Common Attributes of <marquee>:**

| **Attribute** | **Description** |
| --- | --- |
| behavior | Defines the scrolling type. Values: scroll, slide, alternate |
| direction | Sets the direction of scroll. Values: left, right, up, down |
| scrollamount | Speed of the scroll (higher = faster) |
| scrolldelay | Delay between each scroll movement (in milliseconds) |
| loop | Number of times the marquee scrolls. -1 or infinite = forever |
| bgcolor | Background color of the marquee |
| width | Width of the marquee |
| height | Height of the marquee |
| hspace | Horizontal space around the marquee |
| vspace | Vertical space around the marquee |

**Examples:**

**1. Basic Scrolling Text (Default: scroll left):**

<marquee>Welcome to USBM! </marquee>

**2. Scroll Right:**

<marquee direction="right">Right Scrolling</marquee>

**3. Slide Effect:**

<marquee behavior="slide">This slides in once.</marquee>

**4. Alternate (Bouncing Text):**

<marquee behavior="alternate">Bouncing Text</marquee>

**5. With Speed, Color, and Size:**

<marquee scrollamount="10" scrolldelay="100" bgcolor="yellow" height="50" width="300">

Fast Scrolling with Yellow Background

</marquee>

**Example**:

<html>

<head>

<title>Marquee Tag Examples</title>

</head>

<body>

<h2>1. Basic Scrolling </h2>

<marquee>Welcome to Shri Jagannath Temple!</marquee><hr>

<h2>2. Scroll Right</h2>

<marquee direction="right">Right Scrolling</marquee><hr>

<h2>3. Slide Effect (scrolls once)</h2>

<marquee behavior="slide">This slides in once.</marquee><hr>

<h2>4. Alternate Effect (Bouncing)</h2>

<marquee behavior="alternate">Bouncing Text</marquee><hr>

<h2>5. Fast Scroll with Color and Size</h2>

<marquee scrollamount="10" scrolldelay="100" bgcolor="yellow" height="50" width="300">

Fast Scrolling with Yellow Background

</marquee><hr>

<h2>6. Scroll Up</h2>

<marquee direction="up" height="100">Scrolling Up</marquee><hr>

<h2>7. Scroll Down</h2>

<marquee direction="down" height="100">Scrolling Down</marquee><hr>

<h2>8. Loop 3 Times Only</h2>

<marquee loop="3">This scrolls only 3 times.</marquee><hr>

<h2>9. Marquee with hspace and vspace</h2>

<marquee hspace="50" vspace="20" bgcolor="#d3d3d3" width="300" height="50">

Marquee with space and background

</marquee><hr>

</body>

</html>

**Summary Table**

| **Tag** | **Purpose** | **Example** |
| --- | --- | --- |
| <h1> | Heading | <h1>Title</h1> |
| <p> | Paragraph | <p>Text</p> |
| <br> | Line Break | Line1<br>Line2 |
| <hr> | Horizontal Line | <hr> |
| <b> | Bold (non-semantic) | <b>Bold</b> |
| <strong> | Bold + Importance | <strong>Important</strong> |
| <i> | Italic (non-semantic) | <i>Italic</i> |
| <em> | Italic + Emphasis | <em>Emphasis</em> |
| <u> | Underline | <u>Underline</u> |
| <center> | Center (deprecated) | <center>Text</center> |
| <mark> | Highlight text | <mark>Note</mark> |
| <small> | Smaller text | <small>Footnote</small> |
| <del> | Strikethrough (deleted) | <del>Old</del> |
| <ins> | Inserted (underlined) | <ins>New</ins> |
| <sup> | Superscript | X<sup>2</sup> |
| <sub> | Subscript | H<sub>2</sub>O |

**HTML Attributes**

**1. bgcolor**

* Sets the **background color** of an element (mostly <body>, <table>, <td>).

<body bgcolor="lightblue">

*Deprecated in HTML5. Use CSS: background-color.*

**2. background**

* Sets an **image** as the background of an element.

<body background="bg.jpg">

*Deprecated in HTML5. Use CSS: background-image.*

**3. text**

* Sets the **default color of the text** in the body.

<body text="black">

*Deprecated in HTML5. Use CSS: color.*

**4. align**

* Sets the **alignment** of text or other elements.
* Used in elements like <p>, <div>, <img>, <table>, etc.

<p align="center">Centered paragraph</p>

<img src="img.png" align="right">

*Deprecated in HTML5. Use CSS: text-align, float, or flex.*

**5. size**

* Used in:
  + <font> tag to define **font size**
  + <hr> to define **height**
  + <input> to define **width in characters**

<font size="4">Text</font>

<hr size="5">

<input type="text" size="20">

*<font> tag and its size attribute are deprecated. Use CSS: font-size.*

**6. width**

* Specifies the **width** of elements like <img>, <table>, <hr>, etc.

<img src="image.jpg" width="300">

<table width="100%">

Still supported in HTML5 but **CSS is preferred**: width: 300px;

**7. type**

* Defines the **type** of an element like:
  + Input type: text, button, radio, etc.
  + List type: circle, square, disc (for <ul>)
  + Ordered list numbering: 1, A, a, I, i (for <ol>)

<input type="text">

<ul type="square">

<ol type="A">

Still supported with more types in HTML5.

**8. spacer (Non-standard and obsolete)**

* Used in early versions of HTML for **layout spacing**.
* It created space in layouts using:

<spacer type="horizontal" size="20">

*Not a standard HTML tag. Deprecated long ago. Use CSS margins or padding instead.*