Introduction to HTML

- HTML (HyperText Markup Language): The standard language for creating web pages and applications.
- Uses tags to structure content like headings, paragraphs, links, images, and more.
- HTML documents are interpreted by web browsers.

History and Versions of HTML

- 1. **HTML 1.0 (1993)**: The first version; basic text formatting.
- 2. **HTML 2.0 (1995)**: Introduced forms, tables, and basic features.
- 3. HTML 3.2 (1997): Added scripting support (JavaScript) and improved styling.
- 4. HTML 4.01 (1999): Introduced better structure with strict, transitional, and frameset DTDs.
- 5. HTML5 (2014): Current standard; supports multimedia, semantic tags, and responsive design.

Key Characteristics of HTML:

- 1. Platform-Independent: HTML works across different operating systems and browsers.
- 2. Simple Syntax: Uses tags enclosed in angle brackets (< >).
- 3. Static Language: HTML alone is used for static content; dynamic behavior requires scripting languages like JavaScript.
- 4. Web Standard: Maintained by the World Wide Web Consortium (W3C) and WHATWG (Web Hypertext Application Technology Working Group).

Difference Between HTML and Other Markup Languages

Difference Between HTML and Other Markup Languages

Feature	HTML	XML	XHTML
Purpose	Used to structure web pages.	Designed for data storage and	Combines HTML's features with
		transport.	XML's strictness.
Tag Usage	Predefined tags (, <h1>).</h1>	Custom tags allowed.	Same as HTML, but stricter.
Case Sensitivity	Not case-sensitive $(=).$	Case-sensitive (<tag> ≠ <tag>).</tag></tag>	Case-sensitive.
Error Handling	Browsers handle errors	Errors must be corrected.	Strict error handling.
3	leniently.		J
Syntax Rules	Less strict, allows empty tags	Requires closing tags.	Requires proper nesting and closing
	without /.		tags.
Usage	For web page layout and	For structured data exchange.	For creating web pages with strict
	content.		syntax.

HTML Document Structure

1. <!DOCTYPE> Declaration

- Specifies the HTML version used (e.g., <!DOCTYPE html> for HTML5).
- Ensures browser renders the document correctly.

2. <html> Tag

- Root element of an HTML document.
- All other tags are nested within httml>.

<html>

<head></head>

<body></body>

</html>

3. <head> Tag

- Contains metadata, title, and links to external resources like stylesheets or scripts.
- Metadata is not displayed on the webpage but provides information to the browser.
- Common elements inside <head>:
 - <title>: Defines the title displayed on the browser tab.

- > <meta>: Provides metadata like charset, viewport, and keywords.
- > Links to external stylesheets.
- <script>: Links to JavaScript files.

Example:

```
<head>
    <title>Page Title</title>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta name="keywords" content="HTML, Web Development">
    </head>
```

4. <body> Tag

• Contains the visible content of the webpage (text, images, links, etc.).

```
<body>
  <h1>Welcome to HTML</h1>
  This is a paragraph.
</body>
```

Meta Tags (<meta>)

- <meta charset="UTF-8">: Defines character encoding (UTF-8 for universal compatibility).
- <meta name="viewport" content="width=device-width, initial-scale=1.0">: Enables responsive design for mobile devices.
- <meta name="keywords" content="HTML, CSS, Web Development">: Provides search engine optimization (SEO) keywords.

Text Formatting Tags

These tags control the appearance of text.

Tag	Description	Example
	Displays text in bold without adding semantic	Bold Text → Bold Text
	imp <mark>orta</mark> nce.	1 /
	Displays text in bold and adds semantic importance,	Important Text → Important Text
	indicating strong emphasis.	
<i>></i>	Displays text in italic without adding semantic	<i>ltalic Text</i> → Italic Text
	importance.	/ X
	Displays text in italic and adds semantic importance,	Emphasized Text → Emphasized Text
	indicating emphasis.	
<mark></mark>	Highlights text by rendering it with a yellow	<mark>Highlighted Text</mark> → Highlighted Text
	background by default.	
<small></small>	Displays text in a smaller font size than the	<small>Small Text</small> → Small Text
	surrounding text.	1 /
<u></u>	Underlines the text.	<u>Underlined Text</u> → Underlined Text
	Displays text as a superscript, which appears slightly	$E=mc < sup > 2 < / sup > \rightarrow E=mc^2$
	above the normal text line.	3
	Displays text as a subscript, which appears slightly	$H < sub > 2 < / sub > 0 \rightarrow H_2O$
	below the normal text line.	
	Inserts a line break, starting the text on a new line.	Line 1 br>Line 2 → Line 1 Line 2
<h1> to</h1>	Define headings, with <h1> being the most</h1>	<h1>Main Heading</h1>
<h6></h6>	important and <h6> the least.</h6>	<h2>Subheading</h2>
<ins></ins>	Represents inserted text, typically underlined.	This is <ins datetime="2024-12-20">new</ins>
	, , , , , , , , , , , , , , , , , , ,	content.
	Represents deleted text, typically struck through.	This is <del datetime="2024-12-19">old
		content.

<!DOCTYPE html> <html lang="en"> <title>HTML Text Formatting Example</title> </head> <h1>HTML Text Formatting Tags Example</h1> <!-- Bold Text --> This is bold text. <!-- Strong Text --> This is strong emphasis text. <!-- Italic Text --> This is <i>italicized</i> text. <!-- Emphasized Text --> This is emphasized text. <!-- Highlighted Text --> This is <mark>highlighted</mark> text. <!-- Small Text --> This is <small>small</small> text. <!-- Underlined Text --> This is <u>underlined</u> text. <!-- Superscript Text --> This is an example of superscript: 10² = 100. <!-- Subscript Text --> This is an example of subscript: H₂0 represents water. <!-- Line Break --> This is a line of text.
This text appears on the next line. <!-- Horizontal Rule --> This is some text before the horizontal rule. This is some text after the horizontal rule. </body> </html>

The pre tag preserves line breaks, tabs, white space,

and other formatting characters.

HTML Text Formatting Tags Example

format

This is **bold** text.

this

Preserve

this

This is strong emphasis text.

This is italicized text.

This is emphasized text.

This is highlighted text.

This is small text

This is underlined text.

This is an example of superscript: $10^2 = 100$.

This is an example of subscript: H₂O represents water.

This is a line of text.

This text appears on the next line.

This is some text before the horizontal rule.

This is some text after the horizontal rule.

Semantic Tags

Semantic tags clearly define the role and purpose of the content within them, making web pages more accessible and easier to understand by browsers, developers, and search engines.

o understand by browsers, developers, and search engines.			
Tag	Description	Important Properties/Attributes	Example

<header>

- Represents the header section of a document or section, often containing introductory content or navigation.
- Can contain <h1>-<h6>, <nav>, <logo>.
- <header><h1>Welcome</h1><nav>...</nav></header>

<nav>

- Defines a navigation section containing links to other parts of the website or external links.
- No specific attributes; typically contains <a> tags for links.
- <nav>Home About</nav>

<main>

- Represents the main content of the document, excluding headers, footers, and sidebars.
- No specific attributes.
- <main><h1>Main Content</h1>Details...</main>

<section>

- Groups related content within a document, often with its own heading.
- No specific attributes; can contain headings (<h1>-<h6>) and other structural elements.
- <section><h2>About Us</h2>Details...</section>

<article>

- Represents self-contained content that could be independently distributed, like blog posts or news articles.
- Can contain <header>, <footer>, and other semantic tags.
- <article><h2>Blog Title</h2>Content...</article>

<aside>

- Represents content indirectly related to the main content, such as sidebars or advertisements.
- No specific attributes.
- <aside>Related Links</aside>

<footer>

- Represents the footer of a document or section, typically containing copyright or contact information.
- No specific attributes.
- <footer>© 2024 My Website</footer>

<figure>

- Represents self-contained content, often used with images or diagrams, along with captions.
- No specific attributes; typically used with <figcaption> for captions.
- <figure><figcaption>Image Caption</figcaption></figure>

<figcaption>

- Provides a caption or description for the content in a <figure> tag.
- No specific attributes.
- <figcaption>This is a caption for the image.</figcaption>

<address>

- Represents contact information for the author or owner of the document.
- No specific attributes.
- <address>Contact us at: example@example.com</address>

<time>

- Represents either a specific point in time or a duration.
- Attributes: datetime (ISO 8601 format for machine-readable time).
- <time datetime="2024-12-19">December 19, 2024</time>

<mark>

- Highlights text, often used to indicate relevance or search matches.
- No specific attributes.
- <mark>Important</mark>

<details>

- Represents additional details the user can view or hide.
- Attributes: open (indicates the details are visible by default).
- <details><summary>Click to view</summary>More info...</details>

<summary>

- Provides a summary or legend for the <details> element.
- No specific attributes.
- <summary>Click to expand</summary>

<dialog>

Represents a dialog box or interactive component.

Attributes: open (indicates the dialog is open).

<dialog open>Dialog Content</dialog>

<abbr>

Represents an abbreviation or acronym, providing an optional expansion.

Attributes: title (provides the full form of the abbreviation).

<abbr title="HyperText Markup Language">HTML</abbr>

<cite>

Represents the title of a creative work, such as a book, song, or movie.

No specific attributes.

<cite>The Great Gatsby</cite>

<code>

Represents a fragment of computer code.

No specific attributes.

<code>console.log("Hello, World!");</code>

<kbd>

Represents user input, typically from a keyboard or other input device.

No specific attributes.

<kbd>Ctrl + C</kbd>

<samp>

Represents sample output from a computer program.

No specific attributes.

<samp>Error: File not found</samp>

<output>

Represents the result of a calculation or user action.

Attributes: for (associates the output with one or more <input> elements).

<output for="calc">42</output>

<template>

Defines a reusable HTML fragment that is not displayed until it is rendered using JavaScript.

- id: Identifier for referencing the template.
- content: Property to access the template's content in JS.
- <template id="my-template">This is a template.</template>

Inline container for text or elements, used for applying styles or scripting.

- id, class, style, and data-*: Same as <div>.
- This is highlighted text.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>HTML Structural and Semantic Tags Example</title>
</head>
<body>
   <!-- Header -->
    <header>
        <h1>Welcome to My Website</h1>
        <nav>
            <u1>
                <a href="#home">Home</a>
                <a href="#about">About</a>
                <a href="#contact">Contact</a>
            </nav>
    </header>
   <!-- Main Content -->
   <main>
       <!-- Section 1 -->
       <section id="home">
          <h2>Home</h2>
          Welcome to the home page.
              This section provides an overview of the website.
      </section>
       <!-- Article -->
       <article>
          <h2>Latest Article</h2>
          This is an article about web development.
              It includes some useful tips and tricks.
          <time datetime="2024-12-19">
              Published on December 19, 2024</time>
      </article>
      <!-- Figure with Figcaption -->
          <img src="example.jpg" alt="Example Image" style="width:300px;">
          <figcaption>An example image with a caption.</figcaption>
      </figure>
      <!-- Section 2 -->
       <section id="about">
          <h2>About Us</h2>
          We are a team of web developers
              dedicated to creating user-friendly websites.
       </section>
   </main>
   <!-- Aside -->
   <aside>
       <h3>Related Links</h3>
          <a href="https://example.com">Example Link 1</a>
          <a href="https://example.com">Example Link 2</a>
      </aside>
```

Welcome to My Website

- Home
- About
- Contact

Home

Welcome to the home page. This section provides an overview of the website.

Latest Article

This is an article about web development. It includes some useful tips and tricks.

Published on December 19, 2024

Example Image

An example image with a caption.

About Us

We are a team of web developers dedicated to creating user-friendly websites.

Related Links

- Example Link 1
- Example Link 2

Contact us at: info@example.com

Visit us: 123 Web Street, Internet City, 45678

© 2024 My Website

Multimedia Tags in HTML

Multimedia tags are used to embed and display various types of multimedia content like images, audio, video, and animations on a web page.

Tag	Description	Important Properties/Attributes	Example	4 45	
	STEEL ST	APPENDING APPENDING	AND DESCRIPTION OF THE PERSON NAMED IN		
A SALES	Embade an image into the w	hnogo			

- Embeds an image into the webpage.
- Attributes: src: URL of the image.alt: Alternative text for the image.width, height: Specifies dimensions (in pixels or percentage).loading: Specifies lazy or eager loading.title: Tooltip text.
-

<audio>

- Embeds audio content into the webpage.
- Attributes: src: URL of the audio file. controls: Displays audio controls (play, pause, volume). autoplay: Automatically starts playing the audio. loop: Repeats the audio. muted: Mutes the audio by default.
- <audio src="audio.mp3" controls autoplay loop></audio>

<video>

- Embeds video content into the webpage.
- Attributes: src: URL of the video file.controls: Displays video controls.autoplay: Automatically starts playing the video.loop: Repeats the video.muted: Mutes the video by default.poster: Specifies an image to be shown while the video is downloading or until the user hits play.width, height: Specifies dimensions.
- <video src="video.mp4" controls autoplay loop poster="poster.jpg" width="640" height="360"></video>

<source>

- Specifies multiple media resources for <audio> or <video> tags.
- Attributes: src: URL of the media file.type: MIME type (e.g., audio/mpeg, video/mp4).
- <video controls><source src="video.mp4" type="video/mp4"><source src="video.ogg" type="video/ogg"></video>

<track>

- Adds subtitles, captions, or other text tracks to <video> or <audio>.
- Attributes: src: URL of the track file.kind: Type of track (subtitles, captions, descriptions, chapters, metadata).srclang: Language of the track (e.g., en, fr).label: Title of the track.default: Specifies the default track.
- <video controls><source src="video.mp4" type="video/mp4"><track src="subtitles.vtt" kind="subtitles" srclang="en" label="English" default></video>

<iframe>

- Embeds an external webpage or multimedia content, such as YouTube videos.
- Attributes: src: URL of the external content.width, height: Specifies dimensions.frameborder: Specifies the border width (deprecated; use CSS).allow: Specifies permissions (e.g., autoplay, fullscreen).allowfullscreen: Enables

fullscreen mode.

• <iframe src="https://www.youtube.com/embed/video_id" width="560" height="315" allow="autoplay; fullscreen" allowfullscreen></iframe>

<embed>

- Embeds external content, such as plugins, multimedia players, or Flash content.
- Attributes: src: URL of the embedded content.type: MIME type of the content.width, height: Specifies dimensions.
- <embed src="animation.swf" type="application/x-shockwave-flash" width="400" height="300">

<object>

- Embeds external content, such as multimedia files, applications, or interactive content.
- Attributes: data: URL of the resource.type: MIME type of the content.width, height: Specifies dimensions.name: Name of the object (used for scripting).usemap: Specifies an image map.
- <object data="file.pdf" type="application/pdf" width="600" height="400"></object>

<param>

- Defines parameters for <object> elements.
- Attributes: name: Name of the parameter.value: Value of the parameter.
- <object data="file.swf" type="application/x-shockwave-flash"><param name="autoplay" value="true"></object>



<source src="example.mp3" type="audio/mpeg"> <source src="example.ogg" type="audio/ogg"> Your browser does not support the audio tag.

<section>

</audio> </section>

<!-- Img Tag -->

<section>

</body> </html> <h2>Audio Example</h2> <audio controls>

<h2>Image Example</h2>

HTML Multimedia and Interactive Tags Example

Object and Param Example

Your browser does not support the object tag.

Embed Example



Iframe Example

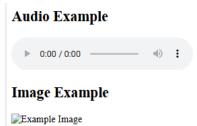
Example Domain

This domain is for use in illustrative examples in documents. You may use this domain in literature without prior coordination or asking for permission.

More information...

Video Example





HTML Table Tags

HTML provides a set of tags to create and structure tables in a web page.

Tag	Description	mportant Properties/Attributes	Example		
Defines the t	Defines the table structure.				
<table borde<="" th=""><th colspan="5"></th></table>					
	Defines a row in the table.	No specific attributes.			
	Defines a header cell in a	Attributes: colspan: Merges cells	Header		
	table (bold and centered	horizontally. rowspan: Merges			
	by default).	cells vertically. scope: Defines			
	and the same of th	the scope of the header (e.g.,	The state of the s		
	A.	row, col, rowgroup, colgroup).			
>	Defines a standard data	Attributes: colspan: Merges cells	Data		
	cell in a table.	horizontally. rowspan: Merges	The state of the s		
A		cells vertically.	- A		
<caption></caption>	Provides a title or	No specific attributes.	<caption>Table Title</caption>		
2000	summary for the table.				
<colgroup></colgroup>	Groups one or more	Attributes: span: Specifies the	<colgroup span="2"></colgroup>		
	columns for styling	number of columns in the group.			
	purposes.		10 6		
<col/>	Specifies properties for	Attributes: span: Specifies the	<col span="2" style="background-color:</th></tr><tr><th>may Ans</th><td>individual columns within</td><td>number of columns this <col></td><td>lightblue;"/>		
-	a <colgroup>.</colgroup>	applies to.	STATE AND ADDRESS OF THE PERSON NAMED IN		
<thead></thead>	Groups header rows in a	No specific attributes.	<thead>Header</thead>		
	table.	8	>		
	Groups the body rows in a	No specific attributes.	Data		
	table.		1 /		
<tfoot></tfoot>	Groups footer rows in a	No specific attributes.	<tfoot>Footer</tfoot>		
	table.	8 6	1 /		

Web Technology Infeepedia

```
By: Infee Tripathi
```

```
k!DOCTYPE html>
<html lang="en">
<head>
    <title>HTML Table Tags Example</title>
    <style>
        table {
            width: 100%;
            border-collapse: collapse;
        th, td {
            border: 1px solid black;
            padding: 8px;
            text-align: center;
        caption {
            font-size: 1.5em;
            font-weight: bold;
            margin-bottom: 10px;
    </style>
</head>
```

HTML Table Tags Example

Monthly Sales Report

Product	Sales	Profit
Product A	\$1000	\$400
Product B	\$1500	\$600
Product C	\$2000	\$800
Total	\$4500	\$1800

```
<body>
   <h1>HTML Table Tags Example</h1>
   <!-- Table Example with All Tags -->
   <!-- Caption Tag -->
       <caption>Monthly Sales Report</caption>
       <!-- Column Group and Column Tags -->
       <colgroup>
          <col style="background-color: lightgray">
          <col style="background-color: lightblue">
          <col style="background-color: lightgreen">
       </colgroup>
       <!-- Table Header -->
       <thead>
          Product
              Sales
              Profit
```

</thead>

```
<!-- Table Body -->
    Product A
        $1000
        $400
      Product B
        $1500
        $600
      Product C
        $2000
        $800
      <!-- Table Footer -->
    <tfoot>
      Total
        $4500
        $1800
      </tfoot>
  </body>
</html>
```

HTML Form Tags

HTML forms are used to collect user input and send it to a server for processing.

Tag	Description	Important Properties/Attributes	Example
<form></form>	Defines a form for collecting user	Attributes: action: URL where the form data is sent.	<form action="/submit" method="POST"></form>
	input.	method: HTTP method (GET or POST).	, , , , , , , , , , , , , , , , , , , ,
		enctype: Encoding type for form data	
		(application/x-www-form-urlencoded,	
		multipart/form-data, etc.).	
		target: Specifies where to display the	The state of the s
	and the same of th	response (_self, _blank, etc.).	
<input/>	Defines an input	Attributes: type: Specifies input type (text,	<input <="" name="username" td="" type="text"/>
•	field for user data.	password, email, etc.). name: Name of the	placeholder="Enter Name">
		input field. value: Default value.	
A		placeholder: Text hint inside the field.	The state of the s
1	5900	required: Ensures the field is filled before	
Rich	The state of the s	submission, readonly: Makes the field non-	The same of the sa
AS IN		editable. disabled: Disables the field.	
<textarea></td><td>Defines a multi-line</td><td>Attributes: rows: Number of visible text</td><td><textarea rows="4" cols="50"</td></tr><tr><td>- Control of the Cont</td><td>text input.</td><td>lines. cols: Width of the text area.</td><td>placeholder="Enter your</td></tr><tr><td>All of</td><td>According to the last of</td><td>maxlength: Maximum characters allowed.</td><td>comments"></textarea>			
MARK AND		placeholder: Hint text.	AND AND AND AND
<button></button>	Defines a clickable	Attributes: type: Specifies button type	<button< td=""></button<>
	button.	(submit, reset, button). disabled: Disables	type="submit">Submit
		the button.	3 3
<select></select>	Defines a	Attributes: name: Name of the dropdown.	<select name="cars"><option< td=""></option<></select>
	dropdown list.	multiple: Allows multiple selections.	value="volvo">Volvo
<option></option>	Defines an option	Attributes: value: Value sent to the server	<pre><option <="" pre="" value="volvo"></option></pre>
-	in a dropdown list.	when selected. selected: Pre-selects the	selected>Volvo
	Walls	option.	1 /
<label></label>	Associates a label	Attributes: for: ID of the associated form	<label< td=""></label<>
	with a form	element.	for="username">Username:
	element.	1	
<fieldset></fieldset>	Groups related	No specific attributes.	<fieldset><legend>Personal</legend></fieldset>
	elements in a form.	\ \ \ /	Info <input< td=""></input<>
	***		type="text">
<legend></legend>	Provides a caption	No specific attributes.	<legend>Personal Info</legend>
	for a <fieldset>.</fieldset>	The state of the s	
<datalist></datalist>	Provides a list of	Attributes: id: Identifies the datalist.	<input list="browsers"/> <datalist< td=""></datalist<>
	predefined options	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	id="browsers"> <option< td=""></option<>
	for an <input/>		value="Chrome">
	element.	1 3	
<output></output>	Displays the result	Attributes: name: Identifies the output.	<output for="a</td></tr><tr><td></td><td>of a calculation or</td><td>for: Associates the output with input</td><td>b" name="result">10</output>
	script.	elements.	
	Represents the	Attributes: value: Current progress value.	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>			may-"100"> //progress>
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	completion	max: Maximum value (default is 1).	max="100">
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	•	max: Maximum value (default is 1).	max= 100 >
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	completion	max: Maximum value (default is 1).	max= 100 >
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	completion	max: Maximum value (default is 1).	max= 100 >
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	completion	max: Maximum value (default is 1).	max= 100 >

Web Technology Infeepedia By: Infee Tripathi Represents a scalar measurement within a known Attributes: value: Current value. min: Minimum value. max: Maximum value. low: Lower bound of the range, high: Upper <meter value="0.7" min="0" max="1"></meter>

bound of the range.

range.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>HTML Form Tags Example</title>
</head>
<body>
    <h1>HTML Form Tags Example</h1>
   <!-- Form Example -->
    <form action="/submit_form" method="post">
        <fieldset>
            <legend>Personal Information</legend>
            <!-- Input Tag -->
            <label for="name">Name:</label>
            <input type="text" id="name" name="name" required><br><br></pr>
            <!-- Textarea Tag -->
            <label for="message">Message:</label><br>>
            <textarea id="message" name="message" rows="4"
             cols="50" required></textarea><br><br>
            <!-- Button Tag -->
            <button type="submit">Submit</button><br><br>>
            <!-- Select and Option Tags -->
            <label for="color">Favorite Color:</label>
            <select id="color" name="color">
                <option value="red">Red</option>
                <option value="green">Green</option>
                <option value="blue">Blue</option>
                <option value="yellow">Yellow</option>
            </select><br><br><
            <!-- Datalist Tag -->
            <label for="fruit">Favorite Fruit:</label>
            <input list="fruits" id="fruit" name="fruit">
            <datalist id="fruits">
                <option value="Apple">
                <option value="Banana">
                <option value="Orange">
                <option value="Grapes">
            </datalist><br><br>
            <!-- Output Tag -->
            <label for="result">Result:</label>
            <output id="result" name="result">None</output><br><br>
            <!-- Progress Tag -->
            <label for="progress">Upload Progress:</label><br>
            cprogress id="progress" value="70" max="100">
            <!-- Meter Tag -->
            <label for="meter">Battery Level:</label><br>
            <meter id="meter" value="0.6" min="0" max="1"></meter><br></pr>
        </fieldset>
    </form>
</body>
</html>
```

HTML Form Tags Example

Name:	
rvaine.	
Message:	
Submit	
Favorite Color: Red V	
Favorite Fruit:	
Result: None	
Upload Progress:	
Battery Level:	

Some Other tags

	Some Other tags				
Tag	Description	Attributes	Example		
<bdo></bdo>	Overrides the text	dir: Specifies direction (Itr	<bdo dir="rtl">This text is displayed right-to-</bdo>		
	direction.	or rtl).	left.		
<wbr/>	Specifies a line break	None.	Here is a verylong <wbr/> >word that might need		
	opportunity.		breaking.		
<abbr></abbr>	Represents an abbreviation	title: Specifies the	<abbr title="HyperText Markup</th></tr><tr><th></th><th>or acronym.</th><th>expanded form of the</th><th>Language">HTML</abbr>		
		abbreviation.			
<cite></cite>	Represents the title of a	None.	<cite>The Great Gatsby</cite>		
	creative work (e.g., book,				
	movie).				
<	Defines a short inline	cite: Specifies the source	<q cite="https://example.com">This is a short</q>		
	quotation.	URL of the quote.	quote.		
<dfn></dfn>	Represents a term being	None.	<dfn>HTML</dfn> stands for HyperText Markup		
1	defined.		Language.		
<address></address>	Provides contact	None.	<address>Contact us at:</address>		
A 12	information.		info@example.com		
<bd><bdi></bdi></bd>	Isolates text that may have	None.	 di>Username123 logged in.		
0.00	a different directionality.				
<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>	Displays progress of a task.	value: Current progress	<pre><pre><pre><pre><pre><pre><pre><pre></pre></pre></pre></pre></pre></pre></pre></pre>		
1000		value.			
S -/4	A SECOND SECOND	max: Maximum value	and the second second second		
	Co.	(default is 1).			
<script></th><th>Embeds or references</th><th>src: URL of the external</th><th><script src="app.js" defer></script>					
	JavaScript.	script.	1 /		
	93.	type: MIME type (default	1 /		
	70	is text/javascript).			
	W.	async: Loads the script			
	W	asynchronously.	/		
	VA.	defer: Defers script			
		execution until after the			
	2000	document is parsed.	/ X		
	100	1			
_					
<noscript></noscript>	Displays content when	None.	<noscript>Your browser does not support</noscript>		
	JavaScript is disabled.		JavaScript.		
<a>	Defines a hyperlink to	href: URL of the link.	<a <="" href="https://example.com" th="">		
	another resource.	target: Specifies where to	target="_blank">Visit Example		
		open the link (_self,	1		
		_blank, etc.).	§		
		rel: Relationship	₹		
		(nofollow, noopener,			
		etc.).			
		download: Downloads			
		the linked file.			

```
<!DOCTYPE html>
<html lang="en">
<head>
   <title>HTML Tags Example</title>
</head>
<body>
   <h1>HTML Tags Example</h1>
   <!-- <bdo> Tag (Bidirectional Override) -->
      <bdo dir="rtl">This text is displayed right-to-left.</bdo>
   <!-- <wbr> Tag (Word Break Opportunity) -->
      This is a very long word that may break
      at a specific point: supercalifragilistic<wbr>expialidocious.
   <!-- <abbr> Tag (Abbreviation) -->
      The <abbr title="HyperText Markup Language">
      HTML</abbr> is the standard markup
       language for creating web pages.
   Progress:
   <!-- <cite> Tag (Cite a Source) -->
      This is a quote from <cite>Shakespeare's Hamlet</cite>.
   <!-- <q> Tag (Short Quotation) -->
      He said, <q>To be, or not to be, that is the question.</q>
   <!-- <address> Tag (Contact Information) -->
   <address>
       You can contact us at
       <a href="mailto:info@example.com">info@example.com</a>.
   <!-- <bdi> Tag (Bidirectional Isolation) -->
      <bdi>Text with a different directionality: 123456789</bdi>
   <label for="progress-bar">Progress:</label>
       <!-- <script> Tag (JavaScript Code) -->
   <script>
       document.write("This is a message generated by JavaScript.");
   <!-- <noscript> Tag (Content for Browsers with JavaScript Disabled) -->
   <noscript>
       JavaScript is not enabled in your browser.
   </noscript>
   <!-- <a> Tag (Anchor Link) -->
       Visit <a href="https://www.example.com" target="_blank">
       Example Website</a> for more information.
/bodv>
(/html>
```

HTML Tags Example

.tfel-ot-thgir devalpsid si txet sihT

This is a very long word that may break at a specific point: supercalifragilistic expialidocious

The HTML is the standard markup language for creating web pages.

This is a quote from Shakespeare's Hamlet.

He said, "To be, or not to be, that is the question."

The HTML tag is used to define the meaning of a term.

You can contact us at info@example.com.

Text with a different directionality: 123456789

This is a message generated by JavaScript.

Visit Example Website for more information.

HTML List tags

- In HTML, a list is a structured way to display a collection of related items.
- Lists can be ordered (with a sequence) or unordered (without a sequence).
- HTML provides specific tags to create and format these lists, such as for unordered lists, for ordered lists, and <dl> for description lists. Each list item is represented using the (list item) tag.

Tag	Description	Attributes	Example
	Defines an unordered list.	type: Specifies the bullet style	html <ul type="circle">Item
	Items are typically	(disc, circle, square).	1 1 1
	displayed with bullet		
	points.		
	Defines an ordered list.	type: Specifies the numbering	html <ol <="" start="5" td="" type="I">
	Items are displayed with	style (1, A, a, I, i).	reversed> ltem 1 ltem 2
	numbers, letters, or	start: Specifies the starting	The state of the s
	Roman numerals.	number.	- C
		reversed: Reverses the order.	
<	Defines a list item within	value: Overrides the numbering	html value="10">Item 1Item
,625	or 	for ordered lists.	2
<dl></dl>	Defines a description list.	None.	html <dl><dt>HTML</dt><dd>A markup</dd></dl>
2000	Used for key-value pairs		language for web pages.
	like terms and	No. of Control of Cont	
may A	descriptions.	LANGER SERVICE	STORY AND ADDRESS AND ASSESSED.
<dt></dt>	Defines a term in a	None.	html <dl><dt>CSS</dt><dd>Styles web</dd></dl>
	description list.	32 UZ	pages.
<dd></dd>	Defines the description or	None.	html <dl><dt>JavaScript</dt><dd>Adds</dd></dl>
	value of a term in a		interactivity to web pages.
	description list.		
<menu></menu>	Represents a list of	None.	html
	commands or options		<menu>SaveLoad</menu>
	(usually for a context		_ / /
	menu).		
<dir></dir>	Deprecated. Represents a	None.	html <dir>Folder 1Folder</dir>
	directory list. Use 	\ 1	2
	instead.	3	

```
<!DOCTYPE html>
<html lang="en">
<head>
   <title>HTML List Tags Example</title>
</head>
<body>
   <h1>HTML List Tags Example</h1>
   <!-- <ul> Tag (Unordered List) -->
   <h2>Unordered List (<code>&lt;ul&gt;</code>)</h2>
   <u1>
      Item 1
      Item 2
       Item 3
   <!-- <ol> Tag (Ordered List) -->
   <h2>Ordered List (<code>&lt;ol&gt;</code>)</h2>
   <01>
      First item
       Second item
       Third item
```

HTML List Tags Example

Unordered List (<u1>)

- Item 1
- Item 2
- Item 3

Ordered List ()

- 1. First item
- 2. Second item
- 3. Third item

Description List (<d1>)

HTML

Hypertext Markup Language, the standard language for creating web pages.

CSS

Cascading Style Sheets, used to style web pages.

JavaScript

A programming language used to create interactive effects within web browsers.

```
<!-- <dl> Tag (Description List) -->
 <h2>Description List (<code>&lt;dl&gt;</code>)</h2>
     <dt>HTML</dt>
     <dd>Hypertext Markup Language, the
     standard language for creating web pages.</dd>
     <dt>CSS</dt>
     <dd>Cascading Style Sheets, used to style web pages.</dd>
     <dt>JavaScript</dt>
     <dd>A programming language used to
     create interactive effects within web browsers.</dd>
 </dl>
   <!-- <menu> Tag (Menu List) -->
   <h2>Menu List (<code>&lt;menu&gt;</code>)</h2>
       <a href="#home">Home</a>
       <a href="#about">About</a>
       <a href="#contact">Contact</a>
   <!-- <dir> Tag (Directory List) - Deprecated in HTML5 -->
   <h2>Directory List (<code>&lt;dir&gt;</code>)</h2>
   <dir>
       Documents
       Pictures
       Music
   </dir>
</body>
</html>
```

Menu List (<menu>)

- Home
- About
- Contact

Directory List (<dir>)

- Documents
- Pictures
- Music

Tag Description Important Properties/Attributes Example

<div>

A container for grouping and styling elements; used for layout and structure.

- id: Unique identifier.
- class: For grouping multiple elements.
- style: Inline CSS.
- data-*: Custom data attributes.
- <div class="container">Content inside a div.</div>

k>

Defines the relationship between the current document and an external resource, often used for stylesheets. <| link rel="stylesheet" href="styles.css" type="text/css" media="screen">

<style>

Embeds CSS directly within the HTML document.

<style type="text/css" media="screen">body { background-color: lightblue; }</style>

<script>

Embeds or references JavaScript code in the document.

<script src="script.js" defer></script>

<base>

Specifies the base URL for all relative URLs in the document.

<base href="https://example.com/" target=" blank">