

# HTML 5 TAG

## Document Structure

- `<html>`: Root element of an HTML document
- `<head>`: Container for metadata (data about data)
- `<body>`: Contains the visible content of an HTML document
- `<title>`: Defines the document title
- `<meta>`: Metadata about an HTML document
- `<link>`: Links to external resources, such as stylesheets
- `<style>`: Embeds CSS styles within an HTML document
- `<script>`: Embeds or references executable scripts

## Sectioning Content

- `<header>`: Defines a header for a document or section
- `<nav>`: Defines a set of navigation links
- `<section>`: Defines a section in a document
- `<article>`: Defines an independent, self-contained article
- `<aside>`: Defines content aside from the page content
- `<footer>`: Defines a footer for a document or section
- `<main>`: Specifies the main content of a document

## Text Content

- `<h1>` to `<h6>`: Define HTML headings
- `<p>`: Defines a paragraph
- `<hr>`: Defines a thematic change in the content
- `<pre>`: Defines preformatted text
- `<blockquote>`: Defines a section that is quoted from another source
- `<ol>`: Defines an ordered list
- `<ul>`: Defines an unordered list
- `<li>`: Defines a list item
- `<dl>`: Defines a description list
- `<dt>`: Defines a term/name in a description list

- `<dd>`: Describes a term/name in a description list
- `<figure>`: Specifies self-contained content, like illustrations or diagrams
- `<figcaption>`: Defines a caption for a `<figure>` element
- `<div>`: Defines a division or section in an HTML document

### Inline Text Semantics

- `<a>`: Defines a hyperlink
- `<em>`: Emphasizes text
- `<strong>`: Defines important text
- `<small>`: Defines smaller text
- `<cite>`: Defines the title of a work
- `<q>`: Defines a short quotation
- `<abbr>`: Defines an abbreviation or acronym
- `<code>`: Defines a piece of computer code
- `<var>`: Defines a variable in programming or mathematical expressions
- `<samp>`: Defines sample output from a computer program
- `<kbd>`: Defines keyboard input
- `<sub>`: Defines subscripted text
- `<sup>`: Defines superscripted text
- `<i>`: Defines italic text
- `<b>`: Defines bold text
- `<u>`: Defines underlined text
- `<mark>`: Defines marked/highlighted text
- `<ruby>`: Defines a ruby annotation (for East Asian typography)
- `<rt>`: Defines an explanation/pronunciation of characters (for East Asian typography)
- `<rp>`: Defines what to show in browsers that do not support ruby annotations
- `<bdi>`: Isolates a part of text that might be formatted in a different direction from other text outside it
- `<bdo>`: Overrides the current text direction
- `<span>`: Used to group inline-elements in a document
- `<br>`: Inserts a single line break
- `<wbr>`: Defines a possible line-break

**Image and Multimedia**

- `<img>`: Embeds an image
- `<audio>`: Embeds sound content
- `<video>`: Embeds video content
- `<track>`: Defines text tracks for `<video>` and `<audio>` elements
- `<map>`: Defines an image map
- `<area>`: Defines an area inside an image map
- `<svg>`: Defines a container for SVG graphics
- `<math>`: Embeds mathematical notation in HTML documents using MathML

**Embedded Content**

- `<iframe>`: Defines an inline frame
- `<embed>`: Embeds external content
- `<object>`: Defines an embedded object
- `<param>`: Defines parameters for an `<object>` element
- `<picture>`: Defines a container for multiple image resources
- `<source>`: Defines multiple media resources for `<video>`, `<audio>`, or `<picture>`

**Scripting**

- `<script>`: Embeds or references executable scripts
- `<noscript>`: Defines an alternate content for users that do not support client-side scripts
- `<template>`: Defines a container for content that should be hidden when the page loads
- `<canvas>`: Used to draw graphics via scripting (e.g., JavaScript)

**Demarcating Edits**

- `<ins>`: Defines inserted text
- `<del>`: Defines deleted text

**Table Content**

- `<table>`: Defines a table
- `<caption>`: Defines a table caption
- `<thead>`: Groups the header content in a table
- `<tbody>`: Groups the body content in a table
- `<tfoot>`: Groups the footer content in a table
- `<tr>`: Defines a row in a table

- `<th>`: Defines a header cell in a table
- `<td>`: Defines a cell in a table
- `<col>`: Specifies column properties for each column within a `<colgroup>`
- `<colgroup>`: Specifies a group of one or more columns in a table

### Forms

- `<form>`: Defines an HTML form for user input
- `<label>`: Defines a label for an `<input>` element
- `<input>`: Defines an input control
- `<button>`: Defines a clickable button
- `<select>`: Defines a drop-down list
- `<datalist>`: Specifies a list of pre-defined options for an `<input>` element
- `<optgroup>`: Defines a group of related options in a drop-down list
- `<option>`: Defines an option in a drop-down list
- `<textarea>`: Defines a multiline input control (text area)
- `<keygen>`: Defines a key-pair generator field (now deprecated)
- `<output>`: Represents the result of a calculation
- `<progress>`: Represents the progress of a task
- `<meter>`: Defines a scalar measurement within a known range (a gauge)
- `<fieldset>`: Groups related elements in a form
- `<legend>`: Defines a caption for a `<fieldset>` element

### Interactive Elements

- `<details>`: Defines additional details that the user can view or hide
- `<summary>`: Defines a visible heading for a `<details>` element
- `<dialog>`: Defines a dialog box or window