

Web Development Masterclass: HTML Full Guide

◆ What is HTML?

HTML (HyperText Markup Language) is the standard markup language used to create and structure web pages using tags.

◆ Types of HTML

1. **Static HTML** – Fixed content, no interaction.
 2. **Dynamic HTML (DHTML)** – Combines HTML, CSS, JavaScript for interactive content.
 3. **HTML5** – Latest version, supports multimedia, semantic elements, and web APIs.
-

◆ HTML Document Structure

html

CopyEdit

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
  </head>
  <body>
    <!-- Content goes here -->
  </body>
</html>
```

◆ Basic HTML Tags

Tag	Description
-----	-------------

<code><!DOCTYPE html></code>	Declares HTML5 document type
<code><html></code>	Root of the HTML page
<code><head></code>	Metadata, title, links
<code><title></code>	Page title shown in browser tab
<code><body></code>	Visible page content
<code><h1>—<h6></code>	Headings from largest to smallest
<code><p></code>	Paragraph
<code></code>	Hyperlink
<code></code>	Image
<code>, , </code>	Unordered, ordered lists, list item
<code>
</code>	Line break
<code><hr></code>	Horizontal line
<code><div></code>	Block-level container
<code></code>	Inline container

◆ Form Tags

Tag	Description
<code><form></code>	Form container
<code><input></code>	Input field
<code><textarea></code>	Multi-line input
<code><button></code>	Clickable button

`<select>` Dropdown menu

`<option>` Dropdown option

◆ Multimedia Tags

Tag	Description
<code><video></code> <code>></code>	Embed video
<code><audio></code> <code>></code>	Embed audio
<code><source></code> <code>e></code>	Source file for media

◆ Table Tags

Tag	Description
<code><table></code> <code>></code>	Table container
<code><tr></code>	Table row
<code><td></code>	Table data
<code><th></code>	Table header

◆ Semantic Tags in HTML5

- `<header>` – Top section
- `<footer>` – Bottom section
- `<main>` – Main content
- `<section>` – Group of related content

- `<article>` – Independent content
 - `<nav>` – Navigation links
 - `<aside>` – Sidebar content
-

◆ Advanced Tags

Tag	Purpose
<code><meta></code>	Metadata, encoding, viewport, etc.
<code><link></code>	Link to CSS or favicon
<code><style></code> <code>></code>	Inline CSS styling
<code><script></code> <code>></code>	Embed or link JavaScript
<code><iframe></code> <code>></code>	Embed other websites or videos
<code><canvas></code> <code>></code>	Draw graphics

◆ Common Attributes

Attribute	Use
<code>id</code>	Unique identifier
<code>class</code>	CSS class
<code>style</code>	Inline styles
<code>src, href</code>	Source/Link for image or anchor
<code>alt</code>	Alt text for images

`placeholder` Hint text for input fields

`target="_blank"` Open link in new tab