

HTML Learning Roadmap

1. Introduction to HTML

What is HTML?

Structure of an HTML document

History & versions of HTML (HTML4, XHTML, HTML5)

How browsers read HTML

Setting up a basic HTML file

2. Basic HTML Tags

<html>, <head>, <body>

Headings: <h1> to <h6>

Paragraphs: <p>

Line break:

Horizontal rule: <hr>

Comments: <!-- comment -->

3. Text Formatting Tags

Bold: or

Italic: <i> or

Underline: <u>

Superscript/Subscript: <sup>, <sub>

Preformatted text: <pre>

<mark>, <small>, , <ins>

4. Lists

Unordered lists: and

Ordered lists: and

Description lists: <dl>, <dt>, <dd>

5. Links (Hyperlinks)

Anchor tag: <a>

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Attributes: href, target, rel, download, mailto:, tel:

Internal, external, and anchor links

6. Images and Media

<audio controls>

<video controls>

Embedding YouTube, Vimeo: <iframe>

Responsive images with srcset

7. Tables

<table>, <tr>, <td>, <th>

colspan and rowspan

Table styling with CSS

<caption>

8. Forms

<form>

<input type='text'>, email, password, checkbox, radio, submit, file

<textarea>

<label>, <fieldset>, <legend>

<select>, <option>, <optgroup>

Attributes: required, placeholder, value, name, action, method, disabled, readonly

9. HTML Attributes

id, class

title, style

lang

data-* attributes

Global vs specific attributes

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10. Semantic HTML (HTML5)

<header>, <footer>, <nav>, <main>, <section>, <article>, <aside>

<figure>, <figcaption>

<time>, <details>, <summary>

Why use semantic elements?

11. Meta Tags and SEO Basics

<meta charset='UTF-8'>

<meta name='viewport'>

Meta description and keywords

Open Graph Tags for social media

12. Responsive Web Design with HTML

Viewport settings

Media queries

Mobile-first structure

13. Accessibility in HTML

Alt text for images

Labels and form accessibility

ARIA roles and landmarks

Keyboard navigation

Semantic tags

14. Embedding External Content

<iframe>

<embed>, <object>

External widgets (e.g., maps, calendars)

15. File Paths and Folder Structure

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Relative vs absolute paths

Linking images, CSS, and JS files

Folder best practices

16. HTML APIs & Advanced Features

HTML Drag and Drop API

Geolocation API

Web Storage

Web Workers

<canvas> and SVG

17. Integrating CSS and JS

Inline, internal, external CSS

Adding JavaScript

DOM elements and manipulation

18. HTML Best Practices

Writing clean code

Comments and indentation

Cross-browser compatibility

Validating HTML

19. Project Ideas to Practice

Personal portfolio website

Resume page

Restaurant menu

Photo gallery

Contact form with validation

Blog layout