

HTML Cheat Sheet (Modern & Advanced Guide)

Basic Structure

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Page Title</title>
  <link rel="stylesheet" href="style.css">
  <script src="script.js" defer></script>
</head>
<body>
  <h1>Hello, World!</h1>
  <p>This is a paragraph.</p>
</body>
</html>
```

Global Attributes (Modern)

All HTML elements can use these (unless noted otherwise):

id="unique-id" — identifies an element uniquely
class="classname" — groups elements for CSS/JS
style="color:red;" — inline CSS styling
title="tooltip text" — adds a hover tooltip
data-*="value" — custom data attributes for JS
hidden — hides element
tabindex="0" — sets keyboard tab order
draggable="true" — makes element draggable
contenteditable="true" — allows live text editing
translate="no" — prevents automatic translation
spellcheck="false" — disables spell checking
aria-label="Description" — accessibility label

Text Formatting

, , <i>, , <u>, <mark>, <small>, , <ins>, <sub>, <sup>, <code>, <pre>

Semantic Layout

<header> — top section or navigation
<nav> — site navigation
<main> — main content
<section> — general block of related content
<article> — self-contained content

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<aside> — sidebar or related info  
<footer> — bottom section  
<div> — generic block-level container  
<span> — generic inline container
```

Media & Links

```
<a href="url" target="_blank" rel="noopener">Link</a>  
  
<video controls width="400"><source src="video.mp4" type="video/mp4"></video>  
<audio controls><source src="audio.mp3" type="audio/mpeg"></audio>
```

Forms (Modern HTML5 Inputs)

```
<form action="/submit" method="post">  
  <input type="text" placeholder="Your Name" required>  
  <input type="email" placeholder="Email" required>  
  <input type="password" minlength="8" required>  
  <input type="number" min="1" max="10">  
  <input type="date">  
  <input type="color">  
  <input type="range" min="0" max="100">  
  <textarea rows="4" cols="40"></textarea>  
  <select><option>Option 1</option><option>Option 2</option></select>  
  <button type="submit">Send</button>  
</form>
```

Interactive Elements

```
<details>  
  <summary>Click to expand</summary>  
  <p>Hidden content here.</p>  
</details>  
  
<dialog open>Modal content</dialog>  
<progress value="70" max="100"></progress>  
<meter value="0.6">60%</meter>
```

Graphics & Scripting

```
<canvas id="myCanvas"></canvas>  
<svg width="100" height="100">  
  <circle cx="50" cy="50" r="40" stroke="black" fill="red" />  
</svg>  
<script>console.log("Hello, HTML5!");</script>
```

Meta, SEO, and Social

```
<meta name="description" content="Website description">
<meta name="keywords" content="HTML, CSS, JavaScript">
<link rel="icon" href="favicon.ico" type="image/x-icon">
<meta property="og:title" content="Open Graph Title">
<meta property="og:image" content="thumbnail.jpg">
<meta name="robots" content="index, follow">
<meta name="theme-color" content="#ffffff">
```

Modern Practices

- ✓ Use semantic HTML for accessibility
- ✓ Prefer `<section>`, `<article>`, `<nav>`, and `<main>` for structure
- ✓ Add ARIA attributes for screen readers
- ✓ Use `<link rel="preload">` for performance
- ✓ Always include `<meta viewport>` for mobile
- ✓ Validate code at <https://validator.w3.org/>
- ✓ Use lazy loading: ``