

HTML Cheatsheet

Essential elements and techniques for web structure and content markup

This cheatsheet provides a quick reference to fundamental HTML operations, syntax, and modern features, ideal for both beginners and experienced web developers for efficient web page structure and content organization.

HTML Basics

Structure, elements, and attributes

Text Content

Headings, paragraphs, and formatting

Forms & Input

User interaction and data collection

Media & Links

Images, videos, and navigation

Semantic HTML

Modern structure and accessibility

HTML Document Structure

Basic HTML Document

Every HTML document starts with a document type declaration and follows a standard 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>
</head>
<body>
<!-- Page content goes here -->
</body>
</html>
```

Head Elements

The head section contains metadata about the document.

```
<!-- Character encoding -->
<meta charset="UTF-8">

<!-- Viewport for responsive design -->
<meta name="viewport" content="width=device-width, initial-scale=1.0">

<!-- Page description -->
<meta name="description" content="Page description">

<!-- Link to CSS -->
<link rel="stylesheet" href="styles.css">

<!-- Link to favicon -->
<link rel="icon" href="favicon.ico"/>
```

HTML Comments

Comments are not displayed but help document your code.

```
<!-- This is a comment -->
<!--
Multi-line comment
for longer explanations
-->
```

HTML Elements Anatomy

HTML elements consist of opening tags, content, and closing tags.

```
<!-- Element with content -->
<p>This is a paragraph</p>

<!-- Self-closing elements -->

<br>
<hr>

<!-- Elements with attributes -->
<a href="https://example.com/" target="_blank">Link</a>

<!-- Nested elements -->
<div>
<p>Nested paragraph</p>
</div>
```

Text Content Elements

HTML provides various elements for structuring and formatting text content effectively.

01

Headings: h1 to h6

Define the hierarchy and importance of content sections.

```
<h1>Main Title</h1>
<h2>Section Title</h2>
<h3>Subsection Title</h3>
<h4>Sub-subsection Title</h4>
<h5>Minor Heading</h5>
<h6>Smallest Heading</h6>
```

02

Paragraphs: p

The most common element for text content blocks.

04

Line Breaks & Spacing

Control text flow and spacing within content.

```
<!-- Line break -->
Line 1<br>
Line 2

<!-- Horizontal rule -->
<hr>

<!-- Preformatted text -->
<pre>
Text with
preserved
spacing
and line breaks
</pre>

<!-- Code formatting -->
<code>console.log('Hello');</code>
```

03

Text Formatting

Elements for emphasizing and styling text inline.

Lists & Navigation

Unordered Lists

Create bullet point lists for non-sequential items.

```
<ul>
<li>First item</li>
<li>Second item</li>
<li>Third item</li>
</ul>

<!-- Nested lists -->
<ul>
<li>Main item
<ul>
<li>Sub item 1</li>
<li>Sub item 2</li>
</ul>
</li>
</ul>
```

Description Lists

Create lists of terms and their descriptions.

```
<ol>
<li>First step</li>
<li>Second step</li>
<li>Third step</li>
</ol>
```

```
<!-- Custom numbering -->
<ol start="5">
<li>Item 5</li>
<li>Item 6</li>
</ol>
```

```
<!-- Different numbering types -->
<ol type="A">
<li>Item A</li>
<li>Item B</li>
</ol>
```

Links & Navigation

Create hyperlinks and navigation structures.

```
<!-- Progress and meter -->
<progress value="70" max="100">70%</progress>
<meter value="0.6">60%</meter>
```

```
<!-- Date and time -->
<input type="date">
<input type="time">
<input type="datetime-local">
```

```
<!-- Basic link -->
<a href="https://example.com">Visit Example</a>
```

```
<!-- Page footer -->
<footer>© 2024 Company Name</footer>
```

```
<!-- Link in new tab -->
<a href="https://example.com" target="_blank">New Tab</a>
```

```
<!-- Content direction -->
<p dir="rtl">Right to left text</p>
```

```
<!-- Email link -->
<a href="mailto:email@example.com">Send Email</a>
```

```
<!-- Hidden elements -->
<div hidden>This won't be displayed</div>
```

```
<!-- Phone link -->
<a href="tel:+1234567890">Call Us</a>
```

```
<!-- Page footer -->
<footer>Your browser does not support audio.</footer>
```

```
<!-- Internal page anchors -->
<a href="#section1">Go to Section 1</a>
<h2 id="section1">Section 1</h2>
```

Forms & Input Elements

Forms are essential for user interaction and data collection in web applications.

Basic Form Structure

The foundation of user input collection.

```
<form action="/submit" method="POST">
<label for="username">Username:</label>
<input type="text" id="username" name="username" required>
```

```
<label for="email">Email:</label>
<input type="email" id="email" name="email" required>
```

```
<input type="submit" value="Submit">
</form>
```

Form Controls

Additional form elements for user interaction.

```
<!-- ID for unique identification -->
<div id="unique-element">Content</div>
```

```
<!-- Class for styling and selection -->
<p class="highlight important">Text</p>
```

```
<!-- Title for tooltips -->
<span title="This is a tooltip">Hover me</span>
```

```
<!-- Data attributes -->
<div data-user-id="123" data-role="admin">User</div>
```

```
<!-- Language -->
<p lang="es">Hola mundo</p>
```

```
<!-- Content direction -->
<p dir="rtl">Right to left text</p>
```

```
<!-- Hidden elements -->
<div hidden>This won't be displayed</div>
```

```
<!-- Progress and meter -->
<progress value="70" max="100">70%</progress>
```

```
<!-- Date and time -->
<input type="date">
<input type="time">
<input type="datetime-local">
```

```
<!-- Page footer -->
<footer>Your browser does not support audio.</footer>
```

```
<!-- Audio with autoplay -->
<audio controls autoplay loop>
<source src="background.mp3" type="audio/mpeg">
```

```
<!-- Close all tags -->
<p>Always close your tags</p>
```

```
<!-- Use meaningful alt text -->

```

```
<!-- Checkboxes -->
<input type="checkbox" id="agree" name="agree" checked>
<label for="agree">I agree to terms</label>
```

```
<!-- Radio buttons -->
<input type="radio" id="option1" name="choice" value="1">
<label for="option1">Option 1</label>
```

```
<input type="radio" id="option2" name="choice" value="2">
<label for="option2">Option 2</label>
```

```
<!-- Select dropdown -->
<select name="country">
<option value="us">United States</option>
<option value="uk">United Kingdom</option>
<option value="ca">Canada</option>
</select>
```

```
<!-- Textarea -->
<textarea name="message" rows="4" cols="50" placeholder="Enter your message"></textarea>
```

```
<!-- Form validation attributes -->
<input type="text" required>
<input type="email" required>
<input type="text" minlength="3" maxlength="20">
<input type="number" min="1" max="100">
<input type="text" pattern="[\d-]{3}-(\d{2})-[\d]{4}">
```

Tables

Tables organize data in rows and columns for easy comparison and analysis.

Basic Table Structure

Create structured data displays with tables.

```
<table>
<thead>
<tr>
<th>Name</th>
<th>Age</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>John</td>
<td>25</td>
<td>New York</td>
</tr>
<tr>
<td>Jane</td>
<td>40</td>
<td>London</td>
</tr>
<tr>
<td>Mike</td>
<td>30</td>
<td>Paris</td>
</tr>
</tbody>
</table>
```

Advanced Table Features

Enhanced table functionality with spanning and grouping.

```
<!-- Rowspan -->
<tr>
<th rowspan="2">Product</th>
<th colspan="2">Sales</th>
</tr>
<tr>
<th>Q1</th>
<th>Q2</th>
</tr>
```

```
<!-- Colspan -->
<tr>
<td>Product A</td>
<td>$1000</td>
<td>$1200</td>
</tr>
```

```
<!-- Grouping -->
<tbl_struct version="1">
<tbl_header>
<tr>
<th>Category</th>
<th>Product</th>
<th>Sales</th>
</tr>
</tbl_header>
<tbl_info cols="3">
</tbl_info>
<tbl_r cells="3" ix="1" maxcspan="1" maxrspan="1" usedcols="3">
<tbl_r cells="3" ix="2" maxcspan="1" maxrspan="1" usedcols="3">
<tbl_r cells="3" ix="3" maxcspan="1" maxrspan="1" usedcols="3">
<tbl_r cells="3" ix="4" maxcspan="1" maxrspan="1" usedcols="3">
<tbl_r cells="3" ix="5" maxcspan="1" maxrspan="1" usedcols="3">
```

```
<!-- Details -->
<details>
<summary>Click to expand</summary>
<p>This content is hidden by default and revealed when clicking the summary.</p>
</details>
```

```
<!-- Details open -->
<details open>
<summary>This starts expanded</summary>
<p>Content visible by default.</p>
</details>
```

```
<!-- Dialog element -->
<dialog id="myDialog">
<h2>Dialog Title</h2>
<p>Dialog content goes here.</p>
<button onclick="closeDialog()">Close</button>
</dialog>
```

```
<script>
function openDialog() {
  document.getElementById('myDialog').showModal();
}
</script>
```

Semantic HTML5 Elements

Semantic elements provide meaning and structure for better accessibility and SEO.

Page Structure Elements

Create the main sections of your page layout.

```
<!-- Page header -->
<header>
<nav>
<ul>
<li><a href="#home">Home</a></li>
<li><a href="#about">About</a></li>
</ul>
</nav>
</header>
```

```
<!-- Main content -->
<main>
<article>
<h1>Article Title</h1>
<p>Article content...</p>
</article>
</main>
```

```
<!-- Sidebar -->
<aside>
<h2>Related Links</h2>
<ul>
<li><a href="#">Link 1</a></li>
</ul>
</aside>
```

```
<!-- Footer -->
<footer>© 2024 Company Name</footer>
```

Description Lists

Create lists of terms and their descriptions.

```
<!-- Generic section -->
<section>
<h2>Section Title</h2>
<p>Section content...</p>
</section>
```

```
<!-- Standalone article -->
<article>
<h1>Article Title</h1>
<time datetime="2024-01-01">January 1, 2024</time>
</article>
```

```
<!-- Header -->
<header>
<h1>Article Title</h1>
<time datetime="2024-01-01">January 1, 2024</time>
</header>
```

```
<!-- Figure with caption -->
<figure>

<caption>Sales data for Q1 2024</caption>
</figure>
```