HTML Complete Guide - Concise Reference

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1. Introduction
HTML (HyperText Markup Language) is the standard language for creating web pages.
Structure: <!DOCTYPE html>, <html>, <head>, <body>
2. Basic Document

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <title>Page Title</title>
  <meta name="viewport" content="width=device-width, initial-scale=1">
</head>
<body>
  <h1>Heading</h1>
  <p>Paragraph</p>
</body>
</html>
```

3. Common Tags (with short notes)
- Headings: <h1> ... <h6>
- Paragraph: <p>
- Links: text
- Images: <img src="url" alt="desc" width="..." height="...">
- Lists: <ul>, <ol>,
- Tables: <table>, <thead>, <tbody>, <tr>, <th>, <td>
- Forms: <form>, <input>, <textarea>, <select>, <option>, <button>, <label>
- Semantic: <header>, <nav>, <main>, <article>, <section>, <aside>, <footer>
- Media: <audio>, <video>, <source>
- Inline: <span>, <strong>, <em>, <code>, <img>
- Block: <div>, <p>, <h1>...
- Meta: <meta>, <link>, <script>, <style>
4. Attributes
- Global attributes: id, class, style, title, data-*
- Link attrs: href, target="_blank", rel="nofollow"
- Image attrs: src, alt, width, height, loading="lazy"
- Form attrs: action, method="get|post", enctype
- Input types: text, password, email, number, checkbox, radio, file, submit, button, date, datetime-local
5. Accessibility basics
- Always include alt for images
- Use semantic tags for structure
- Use labels for form controls: <label for="id">Name</label>
- ARIA only when necessary
6. Basic examples
- Responsive meta tag in head (see Basic Document)
- Link CSS: <link rel="stylesheet" href="styles.css">
- Inline JS: <script>console.log('Hello')</script>
- External JS: <script src="app.js" defer></script>
7. Simple form example

```
<form action="/submit" method="post">
  <label for="name">Name</label>
  <input id="name" name="name" type="text" required>
  <button type="submit">Send</button>
</form>
```

8. Table example

```
<table>
  <thead>
    <tr><th>Name</th><th>Age</th></tr>
  </thead>
  <tbody>
    <tr><td>Alice</td><td>30</td></tr>
  </tbody>
</table>
```

9. Events (JS)
- onclick, onmouseover, onsubmit, oninput, onchange
Example: <button onclick="alert('hi')">Click</button>
10. Tips & Best Practices
- Keep HTML semantic and accessible
- Separate CSS (styles) and JS (behavior)
- Keep file paths relative for projects
- Validate HTML with validators.w3.org
- Use UTF-8 charset
- Use responsive design (viewport meta, flexible units)
11. Resources

- MDN Web Docs (Mozilla)
- W3C HTML Specification
- FreeCodeCamp tutorials
--- End of guide