HTML Cheat Sheet

This cheat sheet contains a list of common HTML elements and their purposes. It's a quick reference for HTML basics.

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1. Basic Document Structure

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document Title</title>
</head>
<body>
    <!-- Content goes here -->
</body>
</html>
```

2. Text Formatting

Tag	Description
<h1> to <h6>	Headings from largest (<h1>) to smallest (<h6>)
<p>	Paragraphs
 	Line break (no closing tag)
<hr>	Horizontal rule
<strong>	Bold text
<em>	Italic text
<mark>	Highlighted text
<sup>	Superscript
<sub>	Subscript
<del>	Strikethrough (deleted text)

3. Links & Media

Tag	Description
<a href="">	Anchor (hyperlink)
<img src="">	Image

Tag	Description
<video>	Video
<audio>	Audio
<iframe>	Embed another HTML document (e.g., YouTube video)

Attributes:

```
target="_blank": Opens link in a new tab.
alt="description": Describes an image.
```

Example:

```
<a href="https://example.com" target="_blank">Visit Example</a>
<img src="image.jpg" alt="Description of image">
```

4. Lists

- **Unordered List:**

```
<ul>
    <li>Item 1</li>
    <li>Item 2</li>
</ul>
Ordered List:
html
Copy code
<ol>
    <li>First Item</li>
    <li>Second Item</li>
</ol>
```

5. Forms

Tag	Description
<form>	Form container
<input>	Input field (various types)
<textarea>	Multi-line text input
<select>	Dropdown list
<option>	Option in a dropdown list
<button>	Button
<label>	Label for form element

Example:

```
<form action="/submit" method="POST">
```

```
    <label for="name">Name:</label>
    <input type="text" id="name" name="name" required>
    <button type="submit">Submit</button>
</form>
```

6. Table

Tag	Description
<table>	Table container
<tr>	Table row
<th>	Table header (bold and centered)
<td>	Table data (cell content)

Example:

```
<table>
    <tr>
        <th>Heading 1</th>
        <th>Heading 2</th>
    </tr>
    <tr>
        <td>Row 1, Cell 1</td>
        <td>Row 1, Cell 2</td>
    </tr>
</table>
```
>

7. Divs and Spans

- **<div>**: A block-level element, used as a container for other elements.
- **<span>**: An inline element, used to apply styles or group inline-elements.

Example:

```
<div class="container">
    <span style="color: red;">This is red text.</span>
</div>
```

8. Semantic Elements (HTML5)

Tag	Description
<header>	Header section of a page or section
<nav>	Navigation section (for links)
<section>	A section of content
<article>	Independent article content
<aside>	Sidebar content

Tag	Description
<footer>	Footer section of a page or section
<main>	Main content area

9. Meta Tags (SEO & Responsive)

Tag	Description
<meta charset="UTF-8">	Specifies the character encoding
<meta name="viewport" content="width=device-width, initial-scale=1.0">	Makes the page responsive
<meta name="description" content="Short description">	Page description for SEO
<meta name="keywords" content="HTML, CSS, JavaScript">	Keywords for SEO

10. Inline CSS and Classes

- **style** attribute for inline styling.

Example:

```
<p style="color: blue; font-size: 18px;">This is a styled paragraph.</p>
```

- **Classes and IDs**: Use for CSS styling and JavaScript.

Example:

```
<div class="container" id="main-content">
    <p class="text-large">This is large text.</p>
</div>
```

11. Block vs Inline Elements

Block Elements Inline Elements

<div>   <span>
<p>   <a>
<section>   <img>
<header>   <strong>

12. Comments

```
<!-- This is an HTML comment -->
```

This cheat sheet provides an overview of essential HTML tags and features, which can serve as a quick reference while you're coding!