

Cheat Sheet for comprehensive HTML

Basic Structure of an HTML Document

```
<!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>
```

Essential HTML Tags

Headings

```
<h1>Heading 1</h1>
<h2>Heading 2</h2>
<h3>Heading 3</h3>
<h4>Heading 4</h4>
<h5>Heading 5</h5>
<h6>Heading 6</h6>
```

Paragraphs

```
<p>This is a paragraph.</p>
```

Links

```
<a href="https://www.example.com">Visit Example</a>
```

Images

```

```

Lists

- Unordered List

```
<ul>
  <li>Item 1</li>
  <li>Item 2</li>
</ul>
```

- Ordered List

```
<ol>
  <li>First item</li>
  <li>Second item</li>
</ol>
```

Forms and Input Elements

Basic Form Structure

```
<form action="/submit" method="post">
  <label for="name">Name:</label>
  <input type="text" id="name" name="name">
  <input type="submit" value="Submit">
</form>
```

Input Types

Type	Example	Description
Text	<code><input type="text"></code>	Single-line text input
Password	<code><input type="password"></code>	Password input (masked)
Checkbox	<code><input type="checkbox"></code>	Multiple choice selection
Radio	<code><input type="radio"></code>	Single choice selection
Submit	<code><input type="submit"></code>	Submit button
Button	<code><input type="button"></code>	Generic button
File	<code><input type="file"></code>	File upload
Date	<code><input type="date"></code>	Date picker
Email	<code><input type="email"></code>	Email input
Number	<code><input type="number"></code>	Number input

Semantic HTML

Semantic Tags

- **Header**

```
<header>Site Header</header>
```

- **Nav**

```
<nav>  
  <a href="/home">Home</a>  
  <a href="/about">About</a>  
</nav>
```

- **Main**

```
<main>  
  <p>Main content of the page.</p>  
</main>
```

- **Article**

```
<article>  
  <h2>Article Title</h2>  
  <p>Article content.</p>  
</article>
```

- **Section**

```
<section>  
  <h2>Section Title</h2>  
  <p>Section content.</p>  
</section>
```

- **Footer**

```
<footer>  
  <p>© 2023 My Website</p>  
</footer>
```

Meta Tags

Basic Meta Tags

```
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta name="description" content="Website description">
<meta name="keywords" content="HTML, CSS, JavaScript">
<meta name="author" content="Author Name">
```

Attributes

Common Attributes

- **id**

```
<div id="uniqueID">Content</div>
```

- **class**

```
<p class="className">Paragraph</p>
```

- **style**

```
<span style="color: red;">Red Text</span>
```

- **title**

```
<abbr title="HyperText Markup Language">HTML</abbr>
```

Special Characters

Character	Entity
-----------	--------

-----	-----
-------	-------

&	&
---	-------

<	<
---	------

>	>
---	------

"	"
---	--------

|' |' |

Tips and Tricks

Commenting

```
<!-- This is a comment -->
```

Embedding Content

- **Iframe**

```
<iframe src="https://www.example.com"></iframe>
```

- **Video**

```
<video controls>  
  <source src="video.mp4" type="video/mp4">  
</video>
```

- **Audio**

```
<audio controls>  
  <source src="audio.mp3" type="audio/mpeg">  
</audio>
```

Accessibility

- **Alt Text for Images**

```

```

- **ARIA Roles**

```
<nav role="navigation">  
  <a href="/home">Home</a>  
</nav>
```

Advanced Features

HTML5 APIs

- Geolocation

```
<script>
    navigator.geolocation.getCurrentPosition(function(position) {
        console.log(position.coords.latitude,
position.coords.longitude);
    });
</script>
```

- Local Storage

```
<script>
    localStorage.setItem('key', 'value');
    var value = localStorage.getItem('key');
</script>
```

SVG (Scalable Vector Graphics)

```
<svg width="100" height="100">
    <circle cx="50" cy="50" r="40" stroke="black" stroke-width="3"
fill="red" />
</svg>
```

Conclusion

This cheat sheet covers the essential aspects of HTML, from basic structure to advanced features. Use these elements and tips to create well-structured, accessible, and interactive web pages.

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