

Complete HTML Notes



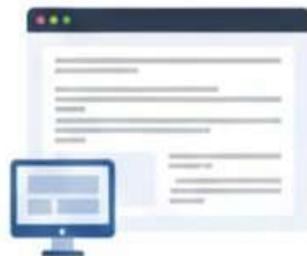
1 What is HTML?

HTML (HyperText Markup Language) is the standard markup language used to create the structure of web pages.

- HTML is **not a programming language**
- It is a **markup language**
- Uses **tags** to define elements

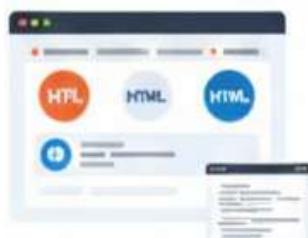
Why HTML is Important?

- Forms the **skeleton of websites**
- Easy to learn
- Supported by all browsers
- Works with **CSS & JavaScript**



2 History of HTML

- **1991** – HTML invented by *Tim Berners-Lee*
- HTML 2.0 → 1995
- HTML 4.01 → 1999
- XHTML → 2000
- **HTML5 → 2014 (Current Standard)**



3 Basic Structure of HTML Document

```
<!DOCTYPE html>  
<html lang="en">  
<head>
```

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```
<meta charset="UTF-8">
<title>My First Page</title>
</head>
<body>
<h1>Hello World</h1>
</body>
</html>
```

Explanation:

- `<!DOCTYPE html>` → Defines HTML5
- `<html>` → Root element
- `<head>` → Metadata
- `<body>` → Visible content

4 HTML Elements & Tags



HTML Element

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

Types of Tags



- Paired Tags → `<p></p>`
- Self Closing Tags → `
<hr>`

5 HTML Attributes

Attributes give **extra information** about elements.

```

```

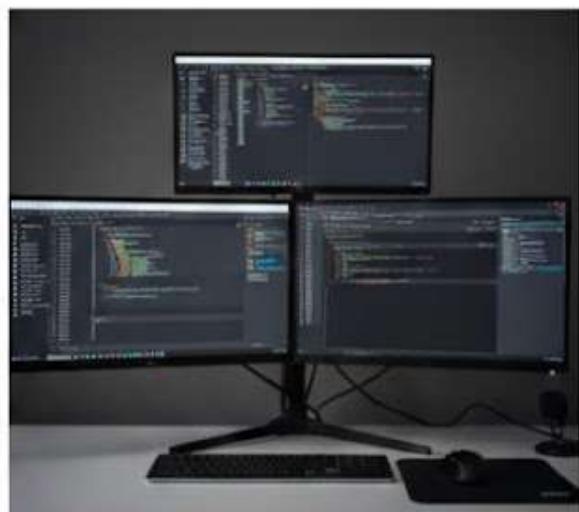
Common Attributes

- `id`

- class
- style
- title
- src
- href

6 Headings & Paragraphs

```
<h1>Heading 1</h1>
<h2>Heading 2</h2>
<h3>Heading 4</h3>
<h4>Heading 4</h4>
<h5>Heading 5</h5>
<h6>Heading 6</h6>
<p>This is a paragraph</p>
```



7 Text Formatting Tags

Tag	Description
	Bold
	Important text
<i>	Italic
	Emphasized
<mark>	Highlight
<small>	Small text
	Deleted
<ins>	Inserted
<sub>	Subscript
<sup>	Superscript

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8 Links (Anchor Tag)

```
<a href="https://google.com" target="_blank">Visit Google</a>
```

target values

- _self
- _blank

9 Images

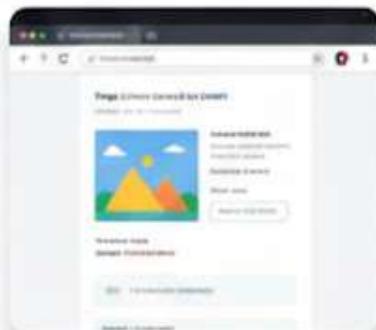
```

```

10 Lists

Ordered List

```
<ol>
<li>HTML</li>
<li>CSS</li>
</ol>
```



Unordered List

```
<ul>
<li>JavaScript</li>
<li>React</li>
</ul>
```



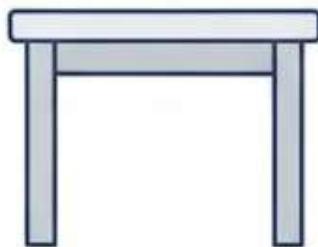
Description List

```
<dl>
<dt>HTML</dt>
<dd>Markup Language</dd>
</dl>
```

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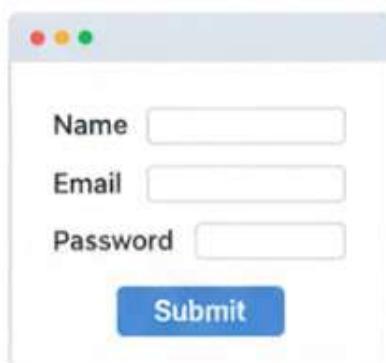
1 1 Tables

```
<table border="1">  
<tr>  
<th>Name</th>  
<th>Age</th>  
</tr>  
<tr>  
<td>Alex</td>  
<td>21</td>  
</tr>  
</table>
```



1 2 Forms

```
<form>  
<input type="text" placeholder="Name"><br>  
<input type="email" placeholder="Email"><br>  
<input type="password" placeholder="Password"><br>  
<input type="submit">  
</form>
```



Input Types

- text
- email
- password
- number
- radio
- checkbox

- submit
- reset

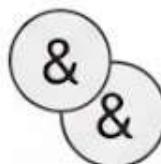
1 3 Semantic HTML (Very Important)

Tag	Meaning
<header>	Header section
<nav>	Navigation
<main>	Main content
<section>	Section
<article>	Article
<aside>	Sidebar
<footer>	Footer

1 4 HTML Media

Audio

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



Video

```
<video controls width="300">  
<source src="video.mp4">  
</video>
```

1 5 HTML Entities

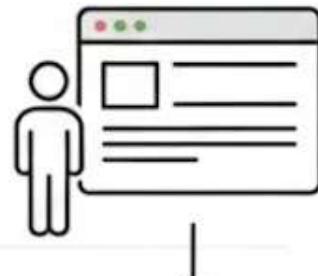
Entity	Symbol
amp;	&

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>	>
©	©
&nbsp	space

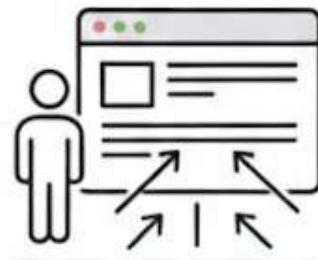
1 6 Meta Tags (SEO)

```
<meta name="description" content="HTML Tutorial">  
<meta name="keywords" content="HTML, CSS">  
<meta name="author" content="Your Name">
```



1 7 iframe

```
<iframe src="https://example.com" width="300"></iframe>
```



1 8 HTML Accessibility

- Use `alt` for images
- Use semantic tags
- Use `label` with input

```
<label for="name">Name</label>  
<input id="name">
```

1 9 HTML Best Practices

- ✓ Use semantic tags
- ✓ Proper indentation
- ✓ Use alt attributes
- ✓ Avoid inline styles
- ✓ Write clean code

2 0 HTML Interview Questions (Basic)

1. What is HTML?

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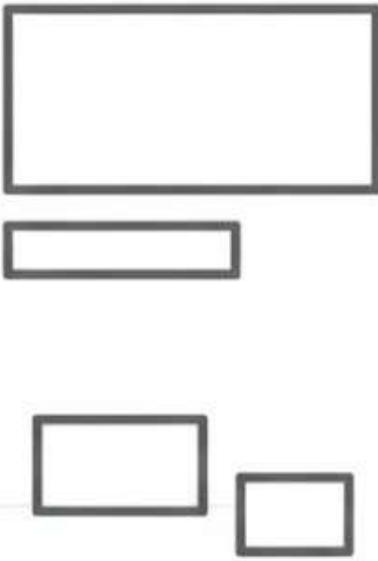
2. Difference between HTML & HTML5?
3. What are semantic tags?
4. Difference between `<div>` and `` ?
5. What is iframe?

2 1 Global Attributes (Very Important)

Global attributes can be used on **any HTML element**.

Attribute	Description
<code>id</code>	Unique identifier
<code>class</code>	Used for grouping elements
<code>style</code>	Inline CSS
<code>title</code>	Tooltip text
<code>hidden</code>	Hides element
<code>contenteditable</code>	Makes text editable
<code>tabindex</code>	Keyboard navigation
<code>draggable</code>	Drag & drop support

```
<p contenteditable="true">Edit me</p>
```



2 2 Block vs Inline Elements

Block Elements

- Take full width
- Start on new line

Examples:

`<div>`, `<p>`, `<h1>`, `<section>`, `<article>`

Inline Elements

- Take required width

- Stay in same line

Examples:

```
<span>, <a>, <img>, <strong>
```

2 3 div vs span

```
<div>This is block</div>
```

```
<span>This is inline</span>
```

- `div` → layout container
- `span` → text styling

2 4 HTML Forms (Advanced)

Form Attributes

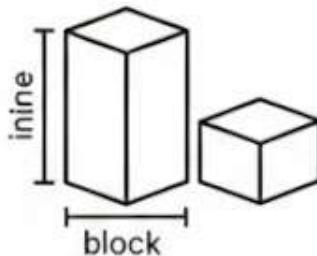
- `action`
- `method` (GET / POST)
- `autocomplete`
- `novalidate`

```
<form action="submit.php" method="post">
```

Input Attributes

- `required`
- `readonly`
- `disabled`
- `maxlength`
- `pattern`
- `placeholder`

```
<input type="text" required maxlength="10">
```



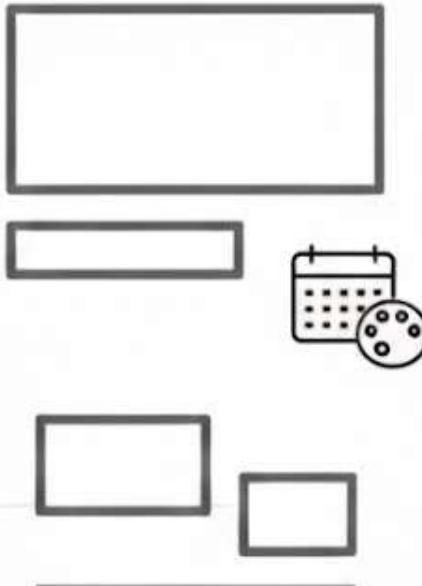
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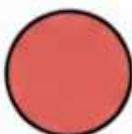
Global attributes can be used on **any** HTML element.

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<code>contenteditable</code>	Makes text editable
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<code>draggable</code>	Drag & drop support

`<p contenteditable="true">Edit me</p>`



2 2 Block vs Inline Elements



2 7 Data Graphics

`<div>, <p>, <h1>, <section>, <article>`

`<atrcle typ="50" g="502="1" st mer">`

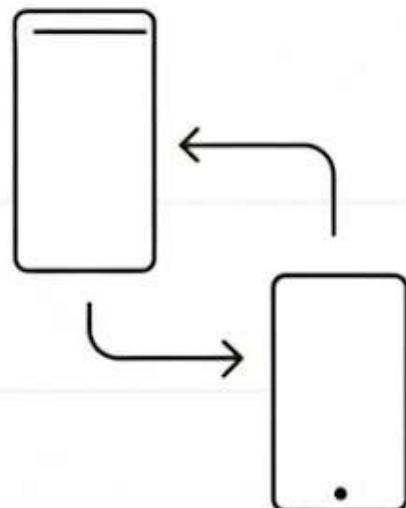
```
</svg>
```

Canvas

```
<canvas id="myCanvas"></canvas>
```

2 9 HTML Drag & Drop

```
<div draggable="true">Drag me</div>
```



3 0 HTML Web Storage

Local Storage

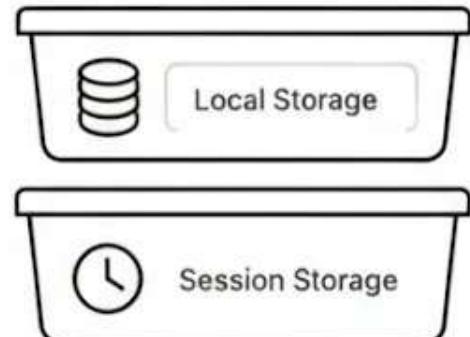
```
localStorage.setItem("name", "Alex");
```

Session Storage

```
sessionStorage.setItem("id", "123");
```

3 1 SEO Best Practices in HTML

- Use `<title>` properly
- Use `<meta description>`
- Use semantic tags
- Proper heading hierarchy
- Alt text for images



3 2 HTML Performance Tips

- Compress images
- Avoid inline CSS
- Use async/defer for scripts
- Clean DOM structure

```
<script src="app.js" defer></script>
```

3 3 HTML Security Basics

- Avoid inline JS
- Use HTTPS
- Escape user input
- Prevent XSS



3 4 HTML vs HTML5 (Interview)

HTML	HTML5
No semantic tags	Semantic tags
No media support	Audio/Video
Cookies only	Local Storage



3 5 Common HTML Mistakes

- ✗ Missing alt attributes
- ✗ Improper nesting
- ✗ Multiple same IDs
- ✗ Skipping headings

3 6 HTML Mini Projects

1. Resume website
2. Login form
3. Portfolio page
4. Blog layout
5. Product page