

# Complete HTML Notes

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## 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>
```

```
<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** → `<br> <hr> <img>`

## 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>`

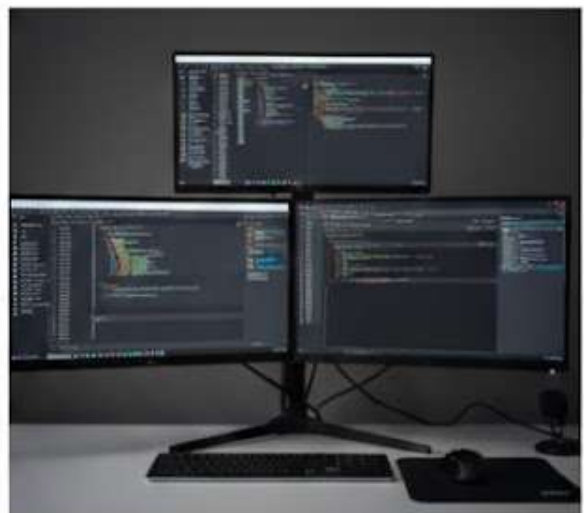
`<h3>Heading 4</h3>`

`<h4>Heading 4</h4>`

`<h5>Heading 5</h5>`

`<h6>Heading 6</h6>`

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



## 7 Text Formatting Tags

| Tag                         | Description    |
|-----------------------------|----------------|
| <code>&lt;b&gt;</code>      | Bold           |
| <code>&lt;strong&gt;</code> | Important text |
| <code>&lt;i&gt;</code>      | Italic         |
| <code>&lt;em&gt;</code>     | Emphasized     |
| <code>&lt;mark&gt;</code>   | Highlight      |
| <code>&lt;small&gt;</code>  | Small text     |
| <code>&lt;del&gt;</code>    | Deleted        |
| <code>&lt;ins&gt;</code>    | Inserted       |
| <code>&lt;sub&gt;</code>    | Subscript      |
| <code>&lt;sup&gt;</code>    | 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

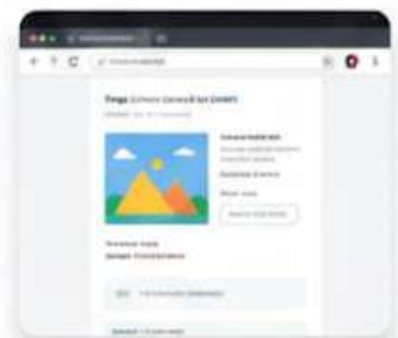
```
<ol>  
<li>HTML</li>  
<li>CSS</li>  
</ol>
```

### Unordered List

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

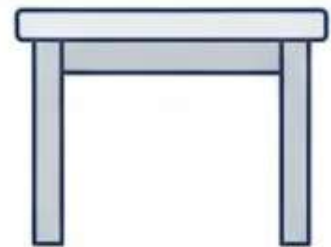
### Description List

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



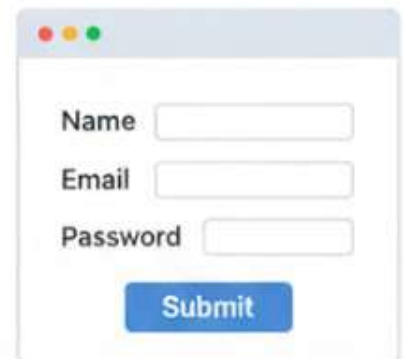
## 1 1 Tables

```
<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        |
|------------------------------|----------------|
| <code>&lt;header&gt;</code>  | Header section |
| <code>&lt;nav&gt;</code>     | Navigation     |
| <code>&lt;main&gt;</code>    | Main content   |
| <code>&lt;section&gt;</code> | Section        |
| <code>&lt;article&gt;</code> | Article        |
| <code>&lt;aside&gt;</code>   | Sidebar        |
| <code>&lt;footer&gt;</code>  | Footer         |

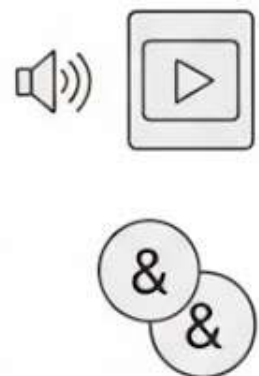
## 1 4 HTML Media

### Audio

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

### Video

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



## 1 5 HTML Entities

| Entity                | Symbol            |
|-----------------------|-------------------|
| <code>&amp;lt;</code> | <code>&lt;</code> |



|                         |                   |
|-------------------------|-------------------|
| <code>&amp;gt;</code>   | <code>&gt;</code> |
| <code>&amp;copy;</code> | <code>©</code>    |
| <code>&amp;nbsp;</code> | space             |

## 16 Meta Tags (SEO)

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

## 17 iframe

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

## 18 HTML Accessibility

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

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

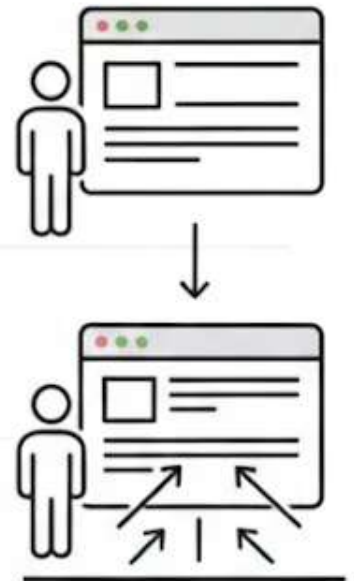
```
<input id="name">
```

## 19 HTML Best Practices

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

## 20 HTML Interview Questions (Basic)

1. What is HTML?



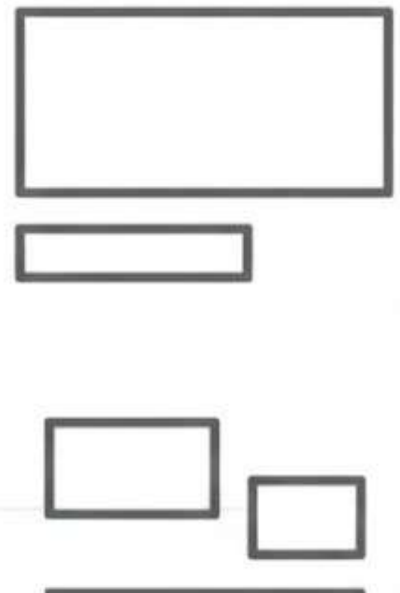
2. Difference between HTML & HTML5?
3. What are semantic tags?
4. Difference between `<div>` and `<span>` ?
5. What is iframe?

## 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

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- Stay in same line

Examples:

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

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## 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`

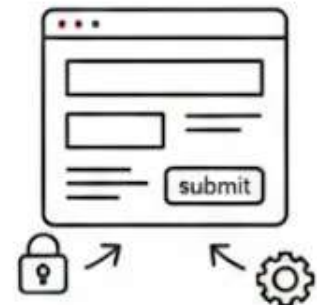
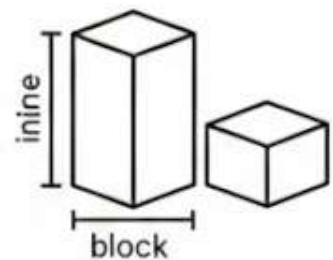
`<form action="submit.php" method="post">`

### Input Attributes

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

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

---



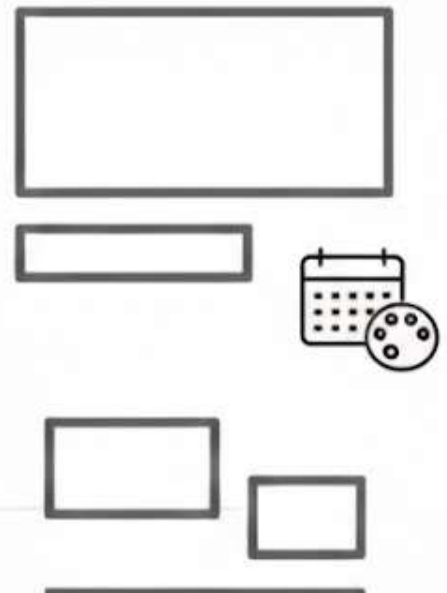
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`<p contenteditable="true">Edit me</p>`



## 2 2 Block vs Inline Elements



## 2 7 Data Graphics

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

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

```
</svg>
```

## Canvas

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

## 29 HTML Drag & Drop

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

## 30 HTML Web Storage

### Local Storage

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

### Session Storage

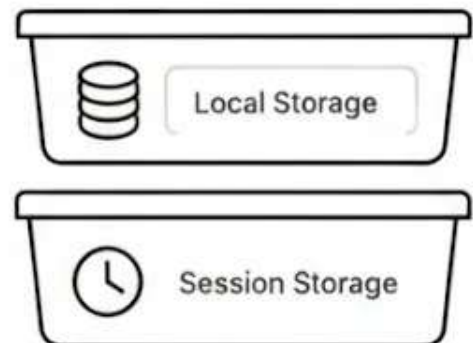
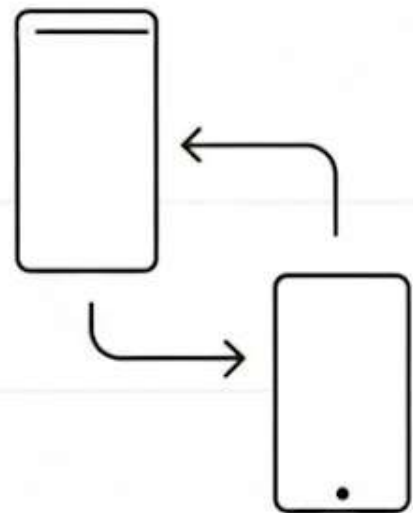
```
sessionStorage.setItem("id", "123");
```

## 31 SEO Best Practices in HTML

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

## 32 HTML Performance Tips

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



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

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### 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