

# HTML Notes

## 1. What is HTML?

- HTML = HyperText Markup Language
- It is used to **structure** a web page.

## 2. Basic Structure of HTML

```
<!DOCTYPE html>
<html>
  <head>
    <title>Page Title</title>
  </head>
  <body>
    <h1>Hello, World! </h1>
    <p>This is a paragraph. </p>
  </body>
</html>
```

## 3. HTML Tags (Elements)

- ✓ Tags are written in < >
- ✓ Most tags have opening & closing: <p> ... </p>

## 4. Common HTML Tags

Tag	Use
<code>&lt;h1&gt;</code> to <code>&lt;h6&gt;</code>	Headings (biggest to smallest)
<code>&lt;p&gt;</code>	Paragraph
<code>&lt;br&gt;</code>	Line Break
<code>&lt;hr&gt;</code>	Horizontal Line
<code>&lt;a href=""&gt;</code>	Hyperlink
<code>&lt;img src=""&gt;</code>	Image
<code>&lt;ul&gt;</code> , <code>&lt;ol&gt;</code> , <code>&lt;i&gt;</code>	Lists
<code>&lt;div&gt;</code>	Division (container)
<code>&lt;span&gt;</code>	Inline container

## 5. Text Formatting Tags

Tag	Use
<code>&lt;b&gt;</code> or <code>&lt;strong&gt;</code>	Bold text
<code>&lt;i&gt;</code> or <code>&lt;em&gt;</code>	Italic text
<code>&lt;u&gt;</code>	Underline
<code>&lt;small&gt;</code>	Small text
<code>&lt;mark&gt;</code>	Highlighted text
<code>&lt;del&gt;</code>	Deleted text
<code>&lt;ins&gt;</code>	Inserted text

## 6. Links (Anchor Tag)

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

- `href` = URL
- `target="_blank"` = opens in new tab

## 7. Images

```

```

## 8. Lists

### Unordered List:

```
<ul>  
  <li>Apple</li>  
  <li>Banana</li>  
</ul>
```

### Ordered List:

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

## 9. Tables

```
<table border="1">  
  <tr>  
    <th>Name</th>  
    <th>Age</th>  
  </tr>  
  <tr>  
    <td>John</td>  
    <td>25</td>  
  </tr>  
</table>
```

## 10. Forms

```
<form>

  <label>Name:</label>

  <input type="text" name="name"><br>

  <label>Password:</label>

  <input type="password" name="pass"><br>

  <input type="submit" value="Submit">

</form>
```

## 11. Input Types

- text, password, email, number, checkbox, radio, submit, button, date, file

## 12. Semantic Elements

Tag	Meaning
<header>	Top section
<nav>	Navigation links
<main>	Main content
<section>	Section of content
<article>	Independent content
<aside>	Side content
<footer>	Bottom info

## 13. Media Tags

```
<video controls width="300">

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

</video>
```

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

#### 14. Iframe (Embed another site)

```
<iframe src="https://example.com" width="400" height="300"></iframe>
```

#### 15. Meta Tags (in <head>)

```
<meta charset="UTF-8">
<meta name="description" content="Free HTML Notes">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
```

#### 16. Inline vs Block Elements

Inline Elements	Block Elements
<span>, <a>, <img>	<div>, <p>, <h1>

#### 17. Comments in HTML

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

#### 18. HTML5 Doctype

```
<!DOCTYPE html>
```

## **19. HTML Entities**

- `&nbsp;` = space
- `&lt;` = <
- `&gt;` = >
- `&amp;` = &
- `&quot;` = "
- `&copy;` = ©

## **20. Best Practices**

- Always close your tags
- Use lowercase for tags
- Use semantic tags
- Use alt attributes for images
- Keep structure clean and readable

## INTERVIEW QUESTIONS

### ◆ Basic HTML

1. **What is HTML?**  
→ HTML stands for HyperText Markup Language.
2. **What is the purpose of HTML?**  
→ It structures web page content.
3. **What does mean?**  
→ It defines the HTML version (HTML5 here).
4. **What is a tag in HTML?**  
→ A keyword used to define elements, e.g., <p>.
5. **What is an element?**  
→ A complete HTML tag with content.
6. **What is the difference between HTML and HTML5?**  
→ HTML5 supports audio, video, and semantic elements.
7. **What are void elements?**  
→ Elements that don't have a closing tag, e.g., <br>.
8. **Is HTML case-sensitive?**  
→ No, tags are not case-sensitive.
9. **How do you comment in HTML?**  
→ <!-- This is a comment -->
10. **Can we write inline CSS in HTML?**  
→ Yes, using the style attribute.

◆ **Common Tags**

11. **Tag for paragraph?**

→ `<p>`

12. **Tag for largest heading?**

→ `<h1>`

13. **Tag to insert image?**

→ ``

14. **Tag to create a link?**

→ `<a href="url">Link</a>`

15. **Tag to make text bold?**

→ `<b>` or `<strong>`

16. **Tag for italic text?**

→ `<i>` or `<em>`

17. **Tag to create a line break?**

→ `<br>`

18. **Tag for horizontal line?**

→ `<hr>`

19. **Tag for creating a table?**

→ `<table>`

20. **Tag to add a table row?**

→ `<tr>`



## ◆ Lists & Forms

### 21. Unordered list tag?

→ `<ul>`

### 22. Ordered list tag?

→ `<ol>`

### 23. List item tag?

→ `<li>`

### 24. Form tag?

→ `<form>`

### 25. Text input tag?

→ `<input type="text">`

### 26. Password input tag?

→ `<input type="password">`

### 27. Submit button tag?

→ `<input type="submit">`

### 28. Textarea tag?

→ `<textarea></textarea>`

### 29. Dropdown/select tag?

→ `<select><option></option></select>`

### 30. Checkbox input tag?

→ `<input type="checkbox">`

## ◆ Advanced HTML

31. **What is semantic HTML?**  
→ Tags that describe meaning, like `<article>`, `<nav>`.
32. **What is the use of `<div>`?**  
→ A block-level container.
33. **What is `<span>`?**  
→ An inline container.
34. **What is `<iframe>` used for?**  
→ Embeds another page in the current page.
35. **How to open a link in a new tab?**  
→ Add `target="_blank"` in `<a>`.
36. **How to add metadata in HTML?**  
→ Using `<meta>` tag in `<head>`.
37. **What is the `<head>` tag?**  
→ Contains meta info like title, links, styles.
38. **What is the `<title>` tag?**  
→ Sets the browser tab name.
39. **What is `<script>` used for?**  
→ To add JavaScript to a page.
40. **What is the `<style>` tag?**  
→ To write internal CSS.

## ◆ Multimedia & Entities

41. **How to embed a video?**  
→ `<video controls><source src="video.mp4"></video>`
42. **How to embed audio?**  
→ `<audio controls><source src="audio.mp3"></audio>`
43. **What is an entity in HTML?**  
→ A special character code (e.g., `&lt;` for `<`)
44. **How to add a favicon?**  
→ `<link rel="icon" href="favicon.ico">`
45. **What is alt in `<img>`?**  
→ Describes the image if it can't load.

◆ **HTML5 Features**

**46. New form input types in HTML5?**

→ email, date, range, color, etc.

**47. New semantic tags in HTML5?**

→ <header>, <footer>, <section>, <article>

**48. What is localStorage?**

→ Stores data in browser permanently.

**49. What is sessionStorage?**

→ Stores data until the browser is closed.

**50. What tool to validate HTML?**

→ W3C Validator (<https://validator.w3.org>)