



# Sheryians Coding School

# Live Cohort

# DAY - 8

# HTML Notes

The background is a dark, textured green. Overlaid on this is a faint, stylized graphic of a hand holding a pen, oriented diagonally from the top-left towards the bottom-right. The hand is rendered in a light green color that blends with the background. The word "HTML" is written in a large, bold, white sans-serif font at the top center. Below it, the word "Notes" is written in a smaller, regular white sans-serif font. The overall aesthetic is minimalist and modern.

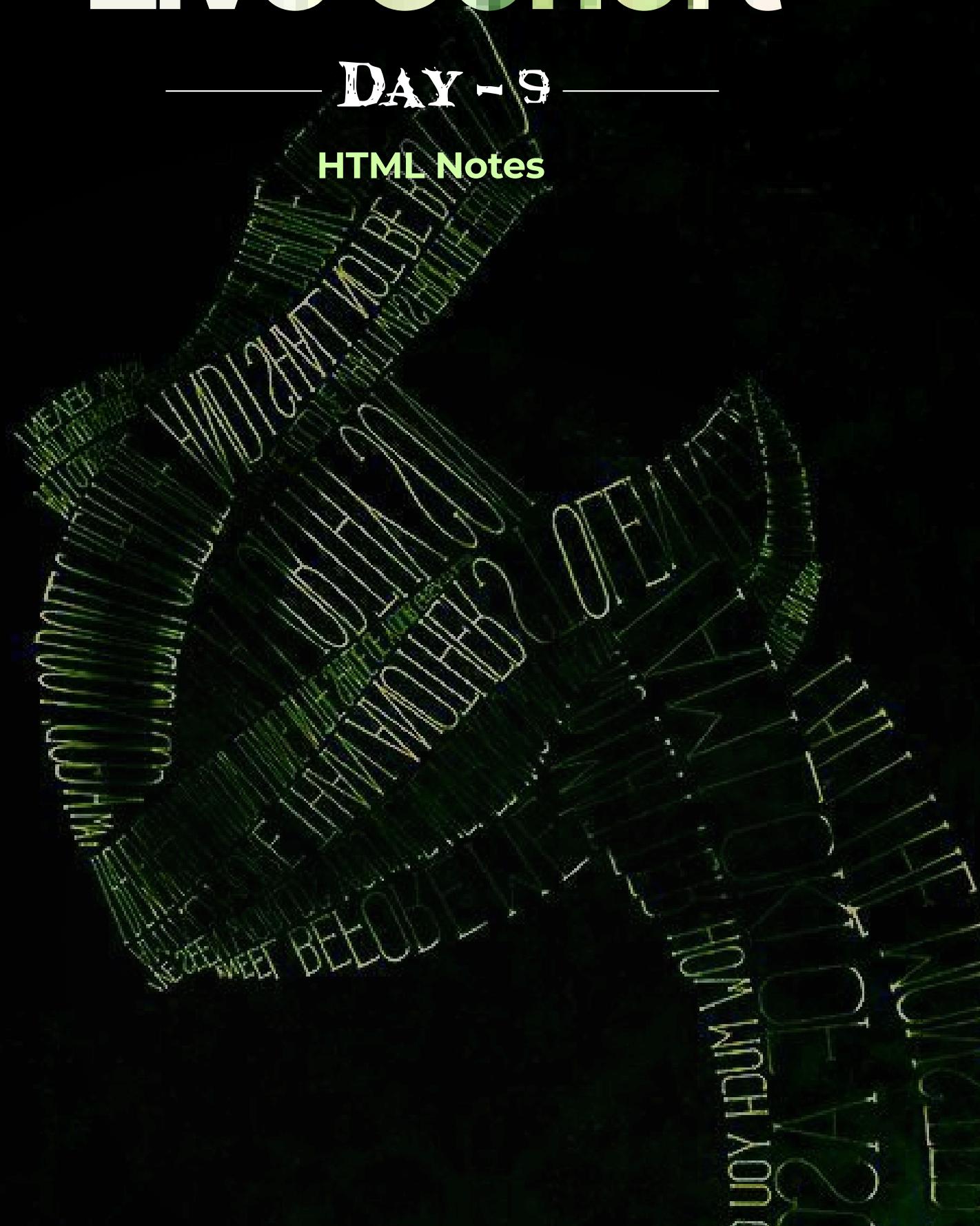
# Live Cohort

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DAY - 9

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HTML Notes



# HTML Notes

## What is HTML and Why It is Required?

- HTML (HyperText Markup Language) is the language browsers use to understand structure & meaning of a webpage.
- HyperText → links, Markup → tags, Language → rules.

### 👉 Analogy:

Resume ka format. Headings = section titles, paragraphs = job details.

## 2. Importance & Role of HTML

1. Structure content
2. Accessibility (screen readers)
3. SEO (title, headings, meta)
4. Base for CSS & JS
5. Cross-device support

## 3. HTML Boilerplate



```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>My First Webpage</title>
7  </head>
8  <body>
9      <!-- Content goes here -->
10 </body>
11 </html>
12
```

# HTML Notes

## ⚡ Tips

- meta charset → prevent weird characters
- viewport → responsive pages
- defer on script → fast loading

## 4. Basic Content Tags

- Headings → <h1> to <h6>
- Paragraph → <p>
- Formatting → <b>, <i>, <u>, <mark>
- Lists → <ol>, <ul>, <li>
- Links → <a href="...">

## 5. Images <img>



```
1  
2
```

- alt → for accessibility
- width/height → avoid layout shift
- loading="lazy" → performance
- Responsive images → srcset, <picture>

# HTML Notes

## 6. Video <video>

```
1 <video controls width="640" height="360" poster="poster.jpg">
2   <source src="video.mp4" type="video/mp4">
3   <track src="captions.vtt" kind="captions" srclang="en">
4 </video>
5
```

- Attributes: controls, autoplay, muted, loop, poster
- Accessibility → captions <track>

## 7. Audio <audio>

```
1 <audio controls>
2   <source src="song.mp3" type="audio/mpeg">
3 </audio>
4
```

- Attributes: controls, loop, preload
- Add transcripts for accessibility

# HTML Notes

## 8. Embedding <iframe>

```
1 <iframe src="https://youtube.com/embed/123"
2   title="Intro Video"
3   width="560" height="315"
4   loading="lazy" allowfullscreen>
5 </iframe>
6
```

- title → required for accessibility
- sandbox → security
- loading="lazy" → performance

## 9. <details> & <summary>

```
1 <details>
2   <summary>How do refunds work?</summary>
3   <p>Refunds within 14 days...</p>
4 </details>
5
```

👉 Useful for FAQ / collapsible content.

# HTML Notes

## 10. Dropdowns <select> + <option>

```
1 <label for="country">Country</label>
2 <select id="country" name="country">
3   <option value="">Select</option>
4   <option value="in">India</option>
5 </select>
6
```

- optgroup → group options
- multiple → allow multi-select

## 11. Forms & Inputs

```
1 <form action="/signup" method="post">
2   <label for="email">Email</label>
3   <input type="email" id="email" required>
4   <button type="submit">Sign up</button>
5 </form>
6
```

- action → where data goes
- method → GET vs POST
- name → key for backend
- required, pattern, autocomplete

# HTML Notes

## 12. Meta Tags

```
● ● ●  
1 <meta charset="utf-8">  
2 <meta name="viewport" content="width=device-width, initial-scale=1">  
3 <meta name="description" content="Short description">  
4 <meta property="og:title" content="Page title">  
5 <meta name="twitter:card" content="summary_large_image">  
6
```

👉 Helps SEO + social media previews.

## 13. Title & Favicon



```
1 <title>Course – Sheryians Coding School</title>  
2 <link rel="icon" type="image/png" href="/favicon.png">  
3
```

## 14. <div> vs Semantic Tags

- <div> = generic
- Semantic tags → <header> <nav> <main> <section> <article> <footer>

# HTML Notes

## 15. Tables

```
1 <table>
2   <thead><tr><th>Name</th><th>Score</th></tr></thead>
3   <tbody><tr><td>Amy</td><td>92</td></tr></tbody>
4 </table>
5
```

## 16. Accessibility Checklist

- Use semantic HTML
- Always provide alt
- Label forms
- High color contrast
- Keyboard accessible



## 17. Common Mistakes

- Missing alt
- Using <div> everywhere
- Forgetting name in forms
- Large unoptimized images