HTML Interview Questions and Answers

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Introduction

This document provides a comprehensive list of HTML interview questions and answers, covering basic, intermediate, and advanced topics. It is designed to help candidates prepare for web development interviews in 2025.

1 Basic HTML Interview Questions

1. What is HTML?

HTML (HyperText Markup Language) is the standard markup language used to create and structure web pages using tags and attributes.

```
<!DOCTYPE html>
<html>
    <head>
        <title>My Page</title>
        </head>
        <body>
            <h1>Welcome!</h1>
            This is a paragraph.
        </body>
        </bd>
        </bd>
    </br>
```

2. What is the purpose of the <!DOCTYPE html> declaration?

It specifies the document as HTML5, ensuring browsers render in standards mode.

```
<!DOCTYPE html>
```

3. What are HTML tags and elements?

Tags (e.g., $\langle p \rangle$, $\langle p \rangle$) define elements, which include opening tags, content, and closing tags (e.g., $\langle p \rangle$ Hello $\langle p \rangle$).

4. What are HTML attributes?

Attributes provide additional information in the opening tag using name-value pairs.

```
<a href="https://example.com">Link</a>
```

5. What are void elements in HTML?

Void elements are self-closing tags without content (e.g.,
 ,).

```
<img src="image.jpg" alt="Image">
```

6. What is the difference between <div> and ?

<div> is a block-level element; is inline.

```
<div>Block content</div>
<span>Inline text</span>
```

7. How do you create a hyperlink in HTML?

Use the <a> tag with the href attribute.

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

8. What is the difference between absolute and relative URLs?

Absolute URLs include the full address; relative URLs specify paths relative to the current document.

```
<a href="https://example.com">Absolute</a>
<a href="page.html">Relative</a>
```

9. What is the purpose of the <head> section?

It contains metadata like title, charset, and links to external resources.

```
<head>
  <title>My Page</title>
  <meta charset="UTF-8">
  </head>
```

10. What are semantic elements in HTML?

Semantic elements (e.g., <header>, <footer>) describe content meaning.

```
<header>Site Header</header>
<article>Main Content</article>
```

11. How do you create a list in HTML?

Use $\langle ul \rangle$ for unordered lists, $\langle ol \rangle$ for ordered lists, and $\langle dl \rangle$ for definition lists.

12. What is the difference between
 and <hr>> tags?

 creates a line break; Haare <hr> adds a horizontal line.

```
Line 1<br/>thr>Line 2<br/><hr>New Section
```

13. How do you add an image in HTML?

Use with src and alt attributes.

```
<img src="image.jpg" alt="Description">
```

14. What is the role of the alt attribute in the tag?

It provides alternative text for accessibility and displays if the image fails to load.

```
<img src="logo.png" alt="Company Logo">
```

15. How do you create a table in HTML?

Use , , , and .

16. What is the purpose of HTML comments?

Comments document code or disable it without affecting display.

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

17. What is the difference between block-level and inline elements?

Block-level elements (e.g., <div>) start on a new line; inline elements (e.g.,) flow within text.

```
<div>Block</div>
<span>Inline</span>
```

18. How do you link an external CSS file to an HTML document?

Use the k> tag in <head>.

```
<link rel="stylesheet" href="styles.css">
```

19. What is the <meta> tag used for?

It provides metadata like character encoding or SEO data.

```
<meta charset="UTF-8">
<meta name="description" content="Webpage description">
```

20. What is the difference between and tags?

 indicates semantic importance; is for visual bold styling.

```
<strong>Important</strong>
<b>Bold</b>
```

2 Intermediate HTML Interview Questions

1. What are the new features introduced in HTML5?

HTML5 includes semantic elements, multimedia tags, new input types, and APIs like Geolocation.

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

2. What is the difference between HTML and HTML5?

HTML5 adds semantic elements, multimedia support, and APIs, reducing plugin reliance.

3. What is the <iframe> tag used for?

It embeds another webpage or content.

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

4. What is the lang attribute in HTML?

It specifies the document or element language for accessibility and SEO.

```
<html lang="en">
```

5. How do you create an HTML form?

Use <form> with input elements and a submit button.

```
<form action="/submit" method="post">
    <input type="text" name="username">
        <input type="submit" value="Submit">
        </form>
```

6. What are HTML5s new input types?

New types include email, url, date, etc., for better validation.

```
<input type="email" name="email">
```

7. What is the difference between id and class attributes?

id uniquely identifies an element; class applies to multiple elements.

```
<div id="unique">Unique</div>
<div class="shared">Shared</div>
```

8. What is the <canvas> element used for?

It enables JavaScript-driven graphics rendering.

```
<canvas id="myCanvas" width="200" height="100"></canvas>
```

9. What is the difference between <canvas> and <svg>?

<canvas> is raster-based; <svg> is vector-based and scalable.

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

10. How do you embed JavaScript in HTML?

Use <script> inline or with src.

```
<script src="script.js"></script>
<script>alert('Hello!');</script>
```

11. What is the defer attribute in the <script> tag?

It delays script execution until HTML is parsed.

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

12. What is the async attribute in the <script> tag?

It allows asynchronous script loading and execution.

```
<script src="script.js" async></script>
```

13. What is the purpose of the charset attribute in the <meta> tag?

It defines character encoding (e.g., UTF-8).

```
<meta charset="UTF-8">
```

14. What is the viewport meta tag?

It controls mobile browser layout for responsive design.

```
<meta name="viewport" content="width=device-width, initial-
scale=1.0">
```

15. What are HTML entities?

Codes for reserved characters or symbols (e.g., < for <).

```
< displays as < li>l displays as l'
```

16. What is the <noscript> tag?

It provides fallback content when JavaScript is disabled.

```
<noscript>Please enable JavaScript.
```

17. How do you create a marquee in HTML?

The <marquee> tag creates scrolling text (deprecated; use CSS).

```
<marquee>Scrolling text</marquee>
```

18. What is the difference between physical and logical tags?

Physical tags (e.g.,) style visually; logical tags (e.g.,) convey meaning.

```
<b>Bold</b> vs. <strong>Important</strong>
```

19. How do you create a dropdown menu in HTML?

Use <select> and <option> tags.

```
<select name="options">
  <option value="1">Option 1</option>
  <option value="2">Option 2</option>
  </select>
```

20. What is the purpose of the title attribute?

It provides tooltip text on hover.

```
<button title="Click me">Button</button>
```

3 Advanced HTML Interview Questions

1. What is the Document Object Model (DOM)?

The DOM is a tree-like representation for JavaScript manipulation.

```
<script>
  document.getElementById("demo").innerHTML = "New content";
</script>
```

2. What is the sandbox attribute in an <iframe>?

It adds security restrictions to <iframe> content.

```
<iframe src="page.html" sandbox="allow-scripts"></iframe>
```

3. How do you optimize images for faster load times in HTML?

Use srcset, compress images, and apply loading="lazy".

4. What is the srcset attribute in the tag?

It provides multiple image sources for different resolutions.

```
<img src="default.jpg" srcset="high-res.jpg 2x, low-res.jpg 1
    x" alt="Image">
```

5. What is the critical rendering path in HTML?

The sequence of steps to render a page; optimize with minified CSS and deferred scripts.

6. What are web components in HTML5?

Reusable elements using Custom Elements, Shadow DOM, and HTML Templates.

```
<template id="my-element">
  Custom Component
</template>
```

7. How do you improve accessibility in HTML?

Use semantic tags, alt text, ARIA, and keyboard navigation.

```
<button aria-label="Close">X</button>
```

8. What is the difference between sessionStorage and localStorage?

localStorage persists until cleared; sessionStorage clears on tab close.

```
<script>
  localStorage.setItem("key", "value");
  sessionStorage.setItem("key", "value");
</script>
```

9. What are HTML5 APIs?

APIs like Geolocation, Web Storage, Canvas, and WebSockets enhance functionality.

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

10. How do you handle SEO in HTML?

Use semantic tags, meta descriptions, and Open Graph tags.

```
<meta name="description" content="Learn HTML">
<meta property="og:title" content="HTML Guide">
```

11. What is progressive rendering in HTML?

Sends HTML parts as ready, using lazy loading or async fragments.

12. What are the challenges of HTML5s local storage?

Limited storage, security risks, and no encryption; validate inputs.

13. How do you create a responsive layout without CSS frameworks?

Use relative units, media queries, and <meta name="viewport">.

```
<meta name="viewport" content="width=device-width, initial-
scale=1.0">
```

- 14. What is the difference between client-side and server-side rendering? Client-side renders in the browser; server-side generates HTML on the server.
- 15. How do you handle multilingual content in HTML?

Use lang attribute and dynamic translations.

```
<html lang="fr">
```

16. What is the purpose of the data- attribute?

Stores custom data for JavaScript or CSS.

```
<div data-id="123">Content</div>
<script>
  console.log(document.querySelector("div").dataset.id);
</script>
```

17. How do you embed audio in HTML5?

Use <audio> with <source>.

```
<audio controls>
  <source src="audio.mp3" type="audio/mpeg">
  Your browser does not support audio.
</audio>
```

18. What is the role of the contenteditable attribute?

Allows users to edit element content in the browser.

```
<div contenteditable="true">Editable text</div>
```

19. How do you implement lazy loading in HTML?

Use loading="lazy" for and <iframe>.

```
<img src="image.jpg" loading="lazy" alt="Lazy loaded image">
```

20. What is the significance of the HTML5 picture element?

Allows multiple image sources for responsive design.

```
<picture>
    <source media="(min-width: 768px)" srcset="large.jpg">
    <img src="default.jpg" alt="Image">
    </picture>
```

4 Preparation Tips

- Review Basics: Master tags, attributes, and structure.
- Understand HTML5: Focus on new elements and APIs.
- Practice Coding: Solve problems like forms or tables.
- Learn Accessibility and SEO: Use semantic HTML and ARIA.
- Stay Updated: Follow web development trends.