

HTML Interview Questions & Answers (For 2 Years Experience)

Basic Level Questions

1. What is HTML and why is it used?

Answer:

- **HTML (HyperText Markup Language)** is the standard markup language for creating web pages.
 - It provides the structure of a webpage using elements like headings, paragraphs, images, links, tables, and forms.
 - **Why used:** Without HTML, web browsers would not know how to display content properly.
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2. Difference between HTML and HTML5?

Answer:

Feature	HTML	HTML5
Doctype	Long (<!DOCTYPE HTML PUBLIC ...>)	Short (<!DOCTYPE html>)
Multimedia	Needs external plugins (Flash, Silverlight)	Built-in support for audio & video tags
Semantic Tags	Limited (div, span)	New tags like <header>, <footer>, <article>, <section>
Storage	Cookies only	LocalStorage, SessionStorage, IndexedDB
API Support	Limited	Geolocation, Canvas, Web Workers, etc.

3. What are semantic tags in HTML5?

Answer:

- **Semantic tags** describe the meaning of the content inside them.
- Examples:
 - <header> → Represents page header
 - <footer> → Represents page footer
 - <article> → Independent content
 - <section> → Thematic grouping of content
- Helps in **SEO** and **accessibility**.

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

Answer:

- <div> → Block-level element (takes full width, starts on a new line).
 - → Inline element (does not break line, wraps text or inline elements).
 - Example:
 - <div>This is a block element</div>
 - This is inline
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5. What is the difference between id and class?

Answer:

- id → Unique identifier for a single element.
 - class → Can be used by multiple elements for grouping styles.
 - Example:
 - <div id="header">Header</div>
 - <div class="btn">Button 1</div>
 - <div class="btn">Button 2</div>
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Intermediate Level Questions

6. Difference between inline, internal, and external CSS in HTML?

Answer:

1. **Inline CSS** → Inside element (style attribute).
 2. <p style="color:red;">Hello</p>
 3. **Internal CSS** → Inside <style> in <head>.
 4. <style> p { color: red; } </style>
 5. **External CSS** → In separate .css file.
 6. <link rel="stylesheet" href="style.css">
- External CSS is preferred for **reusability and cleaner code**.
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7. What are HTML entities?

Answer:

- Special characters represented with `&entity_name;` or `&#entity_number;`.
 - Example:
 - `<` → `<`
 - `>` → `>`
 - `&` → `&`
 - `©` → `©`
 - Used when you want to display reserved characters.
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8. Difference between `<script>`, `<noscript>`, and `<defer>`?

Answer:

- `<script>` → Runs JavaScript inside HTML.
 - `<noscript>` → Fallback content if browser does not support JavaScript.
 - `defer` → Ensures script executes after the HTML is parsed.
 - `<script src="app.js" defer></script>`
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9. What is the difference between block-level and inline elements?

Answer:

- **Block-level** (div, p, h1-h6, section):
 - Starts on a new line.
 - Occupies full width.
 - **Inline** (span, a, strong, em):
 - Does not start on new line.
 - Takes only as much width as needed.
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10. What are meta tags in HTML?

Answer:

- Tags inside `<head>` providing metadata about webpage.
- Examples:
 - `<meta charset="UTF-8">`
 - `<meta name="viewport" content="width=device-width, initial-scale=1.0">`
 - `<meta name="description" content="This is my portfolio">`

- Important for **SEO**, responsiveness, accessibility.
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Advanced Level Questions

11. Difference between cookies, localStorage, and sessionStorage?

Answer:

Feature	Cookies	localStorage	sessionStorage
Storage	4KB	5-10MB	5-10MB
Expiry	Manually set	Never (until cleared)	Ends with session
Accessibility	Server + Client	Client only	Client only

12. Explain the difference between <canvas> and <svg>.

Answer:

- <canvas>:
 - Pixel-based rendering.
 - Good for dynamic graphics (games, animations).
 - <svg>:
 - Vector-based (XML markup).
 - Scales without losing quality.
 - Example:
 - `<canvas id="myCanvas"></canvas>`
 - `<svg width="100" height="100">`
 - `<circle cx="50" cy="50" r="40" fill="red"/>`
 - `</svg>`
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13. What are Web Workers in HTML5?

Answer:

- Background scripts running separately from main thread.
- Improves performance by handling heavy tasks (e.g., large data processing).
- Example:
- `const worker = new Worker("worker.js");`

- `worker.postMessage("Start");`
 - `worker.onmessage = (e) => console.log(e.data);`
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14. What are ARIA attributes in HTML?

Answer:

- **Accessible Rich Internet Applications (ARIA)** provide extra meaning for assistive technologies like screen readers.
 - Examples:
 - `<button aria-label="Close menu">X</button>`
 - `<div role="alert">Form submission failed</div>`
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15. Difference between `<link>` and `<a>`?

Answer:

- `<link>`:
 - Defines a relationship between document and external resource (e.g., CSS).
 - Always in `<head>`.
- `<a>`:
 - Defines hyperlinks.
- `Visit`
- `<link rel="stylesheet" href="style.css">`

16. What are semantic HTML tags and why are they important?

Answer:

Semantic tags describe their meaning both to the developer and the browser. Examples:

- `<header>`, `<footer>`, `<article>`, `<section>`, `<nav>`
They improve **SEO, accessibility, and code readability**.
Example:

`<article>`

`<h2>Blog Post Title</h2>`

`<p>This is the blog content.</p>`

`</article>`

17. Difference between block-level and inline elements?

Answer:

- **Block-level elements:** start on a new line, take full width. Examples: <div>, <p>, <section>.
 - **Inline elements:** do not start on a new line, take only required space. Examples: , <a>, .
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18. What are meta tags in HTML?

Answer:

<meta> tags provide metadata (data about the page). Examples:

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

```
<meta name="description" content="Free coding tutorials">
```

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

- Helps in **SEO**, **mobile responsiveness**, and **browser behavior**.
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19. Difference between <link> and <a> tags?

Answer:

- <link>: Defines relationship between current page and external resource. Used mostly for CSS.

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

- <a>: Defines hyperlinks to navigate.

```
<a href="page.html">Click Me</a>
```

20. What is the difference between <script> and <noscript>?

Answer:

- <script>: Adds JavaScript to HTML.
- <noscript>: Provides fallback content if JS is disabled.

```
<noscript>Your browser does not support JavaScript.</noscript>
```

21. What are data attributes in HTML5?

Answer:

They allow custom attributes prefixed with data-.

```
<button data-user-id="123" data-role="admin">Click Me</button>
```

In JS:

```
let btn = document.querySelector("button");  
console.log(btn.dataset.userId); // 123
```

22. Difference between HTMLCollection and NodeList?

Answer:

- **HTMLCollection**: live collection (auto-updates when DOM changes). Returned by `getElementsByName`.
 - **NodeList**: static collection (does not auto-update). Returned by `querySelectorAll`.
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23. What is the difference between inline, internal, and external CSS in HTML?

Answer:

1. **Inline**: style inside HTML element.
 2. `<p style="color:red">Hello</p>`
 3. **Internal**: inside `<style>` tag.
 4. `<style> p { color: red; } </style>`
 5. **External**: using a CSS file.
 6. `<link rel="stylesheet" href="style.css">`
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24. What is the difference between `<figure>` and ``?

Answer:

- ``: just inserts an image.
- `<figure>`: groups image + caption.

`<figure>`

``

`<figcaption>Beautiful Nature</figcaption>`

`</figure>`

25. What is the difference between `id` and `class` in HTML?

Answer:

- **id**: unique identifier for one element.
- **class**: reusable identifier for multiple elements.

<p id="unique">One</p>

<p class="common">Two</p>

26. What is the difference between and ?

Answer:

- : emphasizes text (usually italic).
 - : indicates importance (usually bold).
Both are **semantic tags** for accessibility.
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27. What is the difference between HTML and XHTML?

Answer:

- **HTML**: flexible syntax (not strict).
 - **XHTML**: stricter, follows XML rules.
 - All tags lowercase
 - All tags closed (
)
 - Attributes in quotes
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28. What is the difference between localStorage, sessionStorage, and cookies in HTML5?

Answer:

- **localStorage**: Stores data with no expiry.
 - **sessionStorage**: Stores data until tab/browser closed.
 - **cookies**: Store small data (4KB), can be sent to server.
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29. What are void elements in HTML?

Answer:

Elements that don't need a closing tag.

Examples:
, , <input>, <meta>, <hr>

30. Difference between relative, absolute, and fixed paths in HTML?

Answer:

- **Relative**: images/pic.png → relative to current file.
- **Absolute**: http://example.com/pic.png → full URL.

- **Root-relative:** /assets/img/pic.png → from website root.
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31. What are ARIA roles in HTML?

Answer:

ARIA (**A**ccessible **R**ich **I**nternet **A**pplications) improves screen reader accessibility.

Example:

```
<button role="switch" aria-checked="false">Toggle</button>
```

32. Difference between <iframe> and <embed>?

Answer:

- <iframe>: Embed another webpage.
 - <embed>: Embed external content (video, PDF, Flash).
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33. What are progressive web apps (PWA) and how does HTML5 help?

Answer:

- PWAs use **service workers**, **offline caching**, **manifest.json** for app-like experience.
 - HTML5 APIs like localStorage, cache, and offline mode help build PWAs.
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34. What is the difference between inline SVG and <canvas>?

Answer:

- **SVG:** scalable, DOM-based, resolution-independent.
 - **Canvas:** pixel-based, better for dynamic graphics like games.
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35. What are the differences between vs and <i> vs ?

Answer:

- : bold **without semantic meaning**.
- : bold **with importance**.
- <i>: italic **without semantic meaning**.
- : italic **with emphasis**.

16. What is the difference between and <i>, and ?

- and give semantic meaning (emphasis, importance).
- <i> and are only for styling (italic/bold).

- Modern practice: Prefer `` and `` for accessibility & SEO.
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17. What are semantic and non-semantic HTML elements? Give examples.

- **Semantic:** Elements that describe meaning (e.g., `<header>`, `<footer>`, `<article>`, `<nav>`).
 - **Non-semantic:** Elements that don't describe meaning, only layout (e.g., `<div>`, ``).
 - Important for accessibility & SEO.
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18. Difference between inline, block, and inline-block elements?

- **Block** → Takes full width, starts on a new line (`<div>`, `<p>`, `<h1>`).
 - **Inline** → Takes only needed width (``, `<a>`, ``).
 - **Inline-block** → Behaves like inline but respects width & height.
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19. What is the difference between HTML Collection and NodeList?

- **HTMLCollection:** Live (auto-updates when DOM changes), returned by methods like `getElementsByTagName`.
 - **NodeList:** Static (doesn't auto-update), returned by `querySelectorAll`.
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20. Why do we use `srcset` and `sizes` attributes in ``?

- To serve **responsive images** based on screen resolution/device.
 - Example:
 - `<img`
 - `src="image-small.jpg"`
 - `srcset="image-medium.jpg 768w, image-large.jpg 1200w"`
 - `sizes="(max-width: 768px) 100vw, 50vw"`
 - `alt="Responsive image">`
 - Browser chooses the best image for performance.
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21. Difference between `<link>` and `@import` in CSS?

- `<link>`: Loads CSS faster, supports parallel loading, better for performance.
 - `@import`: Slower, loads CSS sequentially, not recommended.
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22. Why is accessibility (a11y) important in HTML? How do you implement it?

- Accessibility makes websites usable for disabled people.
 - Use ARIA roles, semantic HTML, alt attributes, keyboard navigation (tabindex).
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23. Difference between HTML and XHTML?

- **HTML:** More lenient, not case-sensitive, doesn't require closing tags always.
 - **XHTML:** Strict, follows XML rules (case-sensitive, must close all tags).
 - Today: HTML5 is preferred.
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24. What are data attributes in HTML5?

- Custom attributes to store extra data.
 - Example:
 - `<button data-user-id="123">Profile</button>`
 - `document.querySelector("button").dataset.userId // "123"`
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25. Difference between relative, absolute, and fixed paths in HTML?

- **Relative:** Based on current file location (`./img.png`).
 - **Absolute:** Full URL (`https://example.com/img.png`).
 - **Fixed root:** From project root (`/assets/img.png`).
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26. Why is the `<meta charset="UTF-8">` important?

- Ensures browser renders text correctly.
 - Without it, special characters (€, ♥, ä, etc.) may break.
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27. What is the difference between cookies, localStorage, and sessionStorage?

- **Cookies:** Small data sent to server with every request (used for auth/session).
 - **localStorage:** Stores data in browser permanently (until cleared).
 - **sessionStorage:** Stores data only for one browser tab session.
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28. What are Progressive Web Apps (PWAs)? How is HTML involved?

- PWA = Web app with offline support, push notifications, installable like native apps.

- Uses **HTML + Service Workers + Web App Manifest**.
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29. Why should we use semantic HTML instead of only <div>?

- Better SEO, accessibility (screen readers), code readability.
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30. Difference between inline SVG and image SVG?

- **Inline SVG** (<svg>...</svg>) → Can style with CSS & animate.
- **Image SVG** () → Just displays, can't manipulate directly.