HTML

Interview Questions

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Basic HTML Questions

What is HTML?

- HTML (Hypertext Markup Language) is the standard markup language for creating web pages and web applications.

What is the structure of an HTML document?

- An HTML document typically includes the <!DOCTYPE html>, <html>, <head>, and <body> tags.

What are tags and elements in HTML?

- Tags are the building blocks of HTML, used to create elements. An element consists of a start tag, content, and an end tag.

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

- Block-level elements take up the full width available and start on a new line, whereas inline elements only take up as much width as necessary and do not start on a new line.

What are semantic HTML elements?

- Semantic elements clearly describe their meaning in a human- and machine-readable way, such as <header>, <footer>, <article>, and <section>.

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

- It defines the document type and version of HTML, helping browsers render the content correctly.

How do you create a hyperlink in HTML?

- Use the <a> tag with the href attribute: Link.

How can you create an unordered list in HTML?

- Use the <ul> tag with <li> tags for each item: Item 1 Item 2.

What are HTML attributes?

- Attributes provide additional information about HTML elements, specified in the start tag, such as class, id, style, and href.

What is the difference between <div> and <span>?

- <div> is a block-level element used for layout, while <span> is an inline element used for styling small parts of text.

Intermediate HTML Questions

What is the purpose of the <head> tag?

- It contains meta-information about the document, such as title, scripts, styles, and meta tags.

How can you include an external CSS file in an HTML document?

- Use the <link> tag within the <head> section: <link rel="stylesheet" href="styles.css">.

How do you include JavaScript in an HTML file?

- Use the <script> tag: <script src="script.js"></script> or inline scripts within the <script> tag.

What are data attributes in HTML?

- Custom attributes prefixed with data-, used to store extra information: <div data-info="value"></div>.

What is the purpose of the <form> tag?

- It is used to create an HTML form for user input, with elements like <input>, <textarea>, <button>, and <select>.

What is the difference between id and class attributes?

- id is a unique identifier for an element, while class can be used to apply styles to multiple elements.

How do you specify the character encoding for an HTML document?

- Use the <meta> tag within the <head> section: <meta charset="UTF-8">.

What is the purpose of the <meta> tag?

- It provides metadata about the HTML document, such as character set, viewport settings, and keywords.

How do you create a table in HTML?

- Use <table> with <tr> for rows, <th> for headers, and <td> for data cells.

What are the srcset and sizes attributes in the <img> tag?

- srcset specifies different image sources for various device widths, and sizes defines how much space the image should occupy.

Advanced HTML Questions

What is the purpose of the <iframe> tag?

- It allows embedding another HTML page within the current document.

How can you make a form accessible?

- Use <label> tags for input elements, aria attributes for assistive technologies, and semantic HTML.

What are the different types of <input> elements?

- Types include text, password, email, number, radio, checkbox, file, submit, button, etc.

How do you use the <canvas> element in HTML?

- <canvas> is used for drawing graphics via scripting, usually with JavaScript.

What is the purpose of the <figure> and <figcaption> tags?

- <figure> is used to group media content, and <figcaption> provides a caption for the <figure> content.

What is progressive rendering in HTML?

- Progressive rendering is the technique of displaying content progressively to improve performance and user experience.

How do you implement responsive design in HTML?

- Use media queries in CSS, flexible grid layouts, and relative units like percentages and ems.

What is the purpose of the <template> tag?

- It holds client-side content that won't be rendered when the page loads but can be instantiated using JavaScript.

What is the srcset attribute in the <img> tag used for?

- It provides multiple image resources for different screen densities and resolutions.

How can you optimize an HTML document for SEO?

- Use semantic tags, optimize metadata, include alt attributes for images, and ensure proper heading structure.

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