102 HTML interview questions to hire expert developers

Questions

1. Can you explain what HTML is in very simple terms, like you're talking to a five-year-old?

2. What are HTML tags, and can you give me a couple of examples?

3. What is the basic structure of an HTML document? What are the necessary tags?

4. How do you create a heading in HTML? What are the different levels of headings?

5. How do you create a paragraph in HTML?

6. How can you make text bold or italic in HTML?

7. How do you add an image to a webpage using HTML? What does the `src` attribute do?

8. How do you create a link to another website or a different page on the same website?

9. What is an HTML attribute? Give a few examples of common HTML attributes.

10. What is the difference between `<h1>` and `<h6>` tags?

11. What is the purpose of the `<head>` section in an HTML document?

12. How do you create an unordered list in HTML?

13. How do you create an ordered list in HTML?

14. How can you add comments to your HTML code? Why are comments useful?

15. What is the difference between a block-level element and an inline element? Can you give examples?

16. What is the purpose of the `alt` attribute in the `<img>` tag? Why is it important?

17. How do you create a simple table in HTML?

18. What is the purpose of the `<div>` tag?

19. What is the purpose of the `<span>` tag?

20. How do you include a CSS stylesheet in an HTML document?

21. What is the purpose of the `<meta>` tag in HTML? Can you give some examples of its usage?

22. Explain the difference between the `id` and `class` attributes in HTML.

23. How would you create a simple form with a text input field and a submit button?

24. What are some common HTML semantic tags, and why are they important for accessibility and SEO?

25. If you have some text in a paragraph, how do you ensure that it appears on a new line?

26. How do you embed a YouTube video into an HTML page?

27. What does HTML stand for?

28. Can you explain the basic structure of an HTML document? Like, what are the important parts?

29. What are HTML tags? Give me a couple of examples.

30. What's the difference between opening and closing tags?

31. What's the tag for making a paragraph?

32. How do you make something bold in HTML?

33. How do you create a link to another website?

34. What's an image tag, and how do you use it to show a picture?

35. What are headings in HTML? How many levels are there?

36. What is an HTML attribute? Give an example.

37. How do you add a comment to your HTML code?

38. What's the difference between a list with numbers and a list with bullet points?

39. What tag is used to create a table?

40. What's the `src` attribute used for in the `<img>` tag?

41. What's the `alt` attribute used for in the `<img>` tag?

42. What is the purpose of the `<head>` element in an HTML document?

43. What is the purpose of the `<body>` element in an HTML document?

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

45. Explain the difference between block-level and inline elements.

46. What are some common HTML form elements?

47. How do you create a simple text input field in HTML?

48. What is the purpose of the `<meta>` tag?

49. How can you make a word or sentence italicized in HTML?

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

51. Can you describe what HTML entities are and why they are useful?

52. Explain the concept of semantic HTML and why it is important for web accessibility and SEO.

53. How do HTML forms handle different types of input validation (e.g., email, number, required fields)? Can you provide examples?

54. Describe the difference between `<div>` and `<section>` elements. When would you use one over the other?

55. What are the advantages of using HTML5 semantic tags like `<article>`, `<aside>`, `<nav>`, and `<footer>`?

56. How can you embed audio and video in HTML, and what are some considerations for cross-browser compatibility?

57. Explain the purpose of the `<canvas>` element and how it can be used to draw graphics using JavaScript.

58. What are web workers in HTML5, and how can they improve web application performance?

59. How do you handle different character encodings in HTML to ensure proper display of text?

60. What are the attributes `data-*` used for?

61. Explain the difference between cookies, sessionStorage, and localStorage in the context of HTML5 web storage.

62. Describe how to create responsive images using the `<picture>` element and the `srcset` attribute.

63. How can you optimize HTML code for faster page loading and better performance?

64. Explain the concept of ARIA roles and attributes, and how they improve accessibility for users with disabilities.

65. How do you create accessible forms in HTML, including labels, error messages, and keyboard navigation?

66. What are the different ways to link to external resources (e.g., stylesheets, scripts) in HTML, and what are their best use cases?

67. Describe the purpose of the `<meta>` tags in the `<head>` section of an HTML document and their impact on SEO and browser behavior.

68. What is the purpose of the `alt` attribute in the `<img>` tag, and how does it contribute to accessibility?

69. Explain the concept of web components and how they can be used to create reusable HTML elements.

70. How do you handle cross-origin resource sharing (CORS) issues when embedding resources from different domains in HTML?

71. What is the purpose of the `<template>` element, and how can it be used with JavaScript to create dynamic content?

72. How do you use HTML to create accessible tables, ensuring they are usable by screen readers and other assistive technologies?

73. Explain the concept of 'shadow DOM' and its use cases in web development.

74. Describe the differences between `localStorage`, `sessionStorage`, and cookies, and when you would use each.

75. What are web components and how do they contribute to modular and reusable HTML?

76. How would you optimize HTML for better SEO performance?

77. Discuss the accessibility considerations when building HTML forms.

78. Explain the use of ARIA attributes and their role in enhancing web accessibility.

79. What are microdata, RDFa, and JSON-LD, and how are they used to enhance semantic web content?

80. Describe different HTML templating engines and their benefits.

81. How can you improve the rendering performance of a complex HTML page?

82. Explain the use of service workers and their impact on the user experience?

83. Discuss the security implications of using iframes in HTML.

84. Describe the process of creating responsive images using the `<picture>` element and srcset attribute.

85. How do you handle different character encodings in HTML to avoid display issues?

86. Explain the benefits and drawbacks of using HTML preprocessors like Pug or Haml.

87. How can you integrate HTML with backend technologies to create dynamic web pages?

88. Describe the use of custom data attributes (data-*) and their advantages.

89. What are the different ways to embed multimedia content (audio, video) into HTML, and which is most appropriate for different situations?

90. How do you ensure cross-browser compatibility when writing HTML?

91. Explain the use of web sockets and server-sent events (SSE) in HTML applications.

92. Discuss the advantages and disadvantages of using a CSS-in-JS approach compared to traditional CSS files in an HTML project.

93. How can you validate HTML code to ensure it meets web standards?

94. Describe the process of creating an HTML email template that renders correctly across different email clients.

95. Explain the concept of progressive enhancement and its importance in web development.

96. How do you implement internationalization (i18n) and localization (l10n) in an HTML application?

97. Discuss the use of HTML in mobile app development (e.g., using frameworks like Ionic or React Native).

98. Explain the benefits of using a component-based architecture for building HTML interfaces.

99. How do you manage and optimize third-party scripts included in your HTML pages?

100. Describe the techniques for lazy loading images and other resources in HTML.