

HTML CSS Interview Questions and Answers (2024)

HTML (HyperText Markup Language)

1. What is HTML?

HTML stands for HyperText Markup Language. It is the standard markup language for creating web pages and web applications.

2. What are the main components of an HTML document?

The main components of an HTML document are the HTML tags, which define the structure and content of the page, and the content enclosed within those tags.

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

The `<!DOCTYPE>` declaration specifies the document type and version of HTML being used. It helps browsers to render the page correctly.

4. What is the difference between HTML and XHTML?

XHTML is stricter than HTML and follows XML syntax rules. XHTML documents must be well-formed, meaning all elements must be properly nested and closed.

5. Explain the difference between `<div>` and `` tags.

`<div>` is a block-level element used to group HTML elements and apply styles to them as a whole. `` is an inline element used to apply styles to smaller parts of the text or inline elements.

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

The `<meta>` tag provides metadata about the HTML document, such as character set, author, description, and keywords.

7. What is semantic HTML?

Semantic HTML is using HTML tags that convey meaning beyond just formatting to both the browser and developer, making the structure of the webpage more understandable.

8. What are HTML entities?

HTML entities are special codes used to display characters that have a special meaning in HTML, such as <, >, &, ©, etc.

9. Explain the difference between GET and POST methods in HTML forms.

GET method sends data through the URL, while POST method sends data in the HTTP request body. GET is used for retrieving data, while POST is used for submitting data.

10. What is the purpose of the alt attribute in tags?

The alt attribute specifies alternative text for an image if the image cannot be displayed. It is important for accessibility and SEO.

11. What is the difference between the tag and the tag?

 tag is used for bold formatting, while tag is used to convey importance, typically rendered as bold but carries semantic meaning.

12. Explain the difference between the <head> and <body> tags.

The <head> tag contains meta-information about the document, such as title, links to stylesheets, and scripts. The <body> tag contains the content that is visible on the webpage.

13. What is the purpose of the href attribute in the <a> tag?

The href attribute specifies the URL of the page the link goes to. It is used to create hyperlinks.

14. What is the purpose of the target attribute in the <a> tag?

The target attribute specifies where to open the linked document. For example, "_blank" opens the link in a new window or tab.

15. What is the difference between a local and a session storage in HTML5?

Local storage stores data with no expiration date, while session storage stores data only for the duration of the page session.

16. What is the purpose of the tabindex attribute?

The tabindex attribute specifies the order in which elements are focused when using the keyboard to navigate through a webpage.

17. What is a self-closing tag? Give an example.

A self-closing tag is an HTML tag that doesn't require a separate closing tag. Example:

```

```

18. Explain the purpose of the <iframe> tag.

The `<iframe>` tag is used to embed another HTML document within the current document. It is commonly used to display content from another website.

19. What is the purpose of the <noscript> tag?

The `<noscript>` tag provides alternative content for users who have disabled scripts in their browser or whose browser does not support scripting.

20. Explain the difference between absolute and relative URLs.

Absolute URLs specify the full web address of a resource, including the protocol (http/https). Relative URLs specify the path to a resource relative to the current page.

CSS (Cascading Style Sheets)

21. What is CSS?

CSS stands for Cascading Style Sheets. It is a stylesheet language used to describe the presentation of a document written in HTML.

22. What are the different ways to include CSS in an HTML document?

CSS can be included in an HTML document using inline styles, internal stylesheets (using the `<style>` tag), or external stylesheets (linked using the `<link>` tag).

23. What is the box model in CSS?

The box model in CSS describes the layout and rendering of elements in a document. It consists of content, padding, border, and margin.

24. What is the purpose of the float property in CSS?

The float property is used to align elements to the left or right within their containing element. It is commonly used for creating layouts.

25. Explain the difference between display: block, display: inline, and display: inline-block.

`display: block` makes an element a block-level element, taking up the full width available, and starting on a new line. `display: inline` makes an element an inline-level element, allowing it to flow within the text. `display: inline-block` makes an element an inline-level block container, allowing it to have block-like behavior while flowing within the text.

26. What is the purpose of the position property in CSS?

The position property specifies the positioning method used for an element. Values include static, relative, absolute, fixed, and sticky.

27. Explain the difference between margin and padding.

Margin is the space outside the border of an element, while padding is the space between the element's content and its border.

28. What is the CSS selector specificity?

CSS selector specificity determines which CSS rule takes precedence when multiple rules apply to the same element. It is calculated based on the type of selector used.

29. What are pseudo-classes in CSS?

Pseudo-classes are keywords added to selectors that specify a special state of the selected element. Examples include `:hover`, `:active`, `:first-child`, etc.

30. What is the purpose of the z-index property in CSS?

The z-index property specifies the stack order of an element along the z-axis (front/back). It is used to control the stacking order of positioned elements.

31. What is the purpose of the clear property in CSS?

The clear property specifies whether an element should be moved below (cleared) floating elements that precede it in the document flow.

32. What is the difference between the display: none and visibility: hidden properties?

`display: none` hides the element completely and removes it from the document flow, while `visibility: hidden` hides the element but still occupies space in the document flow.

33. What is the CSS box-sizing property used for?

The box-sizing property defines how the total width and height of an element are calculated, including its padding and border.

34. What is the purpose of the overflow property in CSS?

The overflow property specifies what happens if the content of an element overflows its box. Values include visible, hidden, scroll, and auto.

35. What is the purpose of the @media rule in CSS?

The @media rule is used to apply different styles for different media types/devices, such as screen, print, or handheld devices.

36. What is a CSS sprite?

A CSS sprite is a technique used to combine multiple images into a single image file, reducing the number of server requests and improving performance.

37. What is the purpose of the @import rule in CSS?

The @import rule is used to import an external style sheet into another style sheet. It can be used to modularize stylesheets and improve organization.

38. What is the difference between margin: auto and margin: 0 auto?

`margin: auto` centers an element horizontally within its containing element, while `margin: 0 auto` centers an element both horizontally and vertically within its containing element.

39. Explain the difference between em and rem units in CSS.

`em` units are relative to the font size of the element itself, while `rem` units are relative to the font size of the root element (usually the `<html>` tag).

40. What is the purpose of the CSS calc() function?

The `calc()` function allows for mathematical calculations to be performed within CSS property values. It is commonly used for dynamic sizing and positioning.

Intermediate Questions

41. What is the CSS specificity of the following selector: `.class1 .class2`?

The CSS specificity of `.class1 .class2` is 20 (10 for each class).

42. Explain the difference between padding-box and border-box values for the box-sizing property.

`padding-box` includes padding but not the border in the total width/height calculation, while `border-box` includes both padding and border.

43. What is the purpose of the CSS `:nth-child()` pseudo-class?

The `:nth-child()` pseudo-class selects elements based on their position in a group of siblings. It allows for targeting elements that match a specific pattern.

44. What is the purpose of the CSS flexbox layout model?

The CSS flexbox layout model is used for creating flexible layouts where elements within a container can be dynamically resized and aligned.

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

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

46. What is the purpose of the CSS transform property?

The transform property allows for the transformation of elements in two-dimensional or three-dimensional space, including scaling, rotating, skewing, and translating.

47. What is the purpose of the CSS `@keyframes` rule?

The `@keyframes` rule is used to define animations in CSS by specifying a series of keyframes at different points in the animation.

48. Explain the difference between static, relative, absolute, fixed, and sticky positioning in CSS.

Static positioning is the default position where elements are positioned according to the normal flow of the document. Relative positioning positions an element relative to its normal position. Absolute positioning positions an element relative to its nearest positioned ancestor. Fixed positioning positions an element relative to the viewport. Sticky positioning is a hybrid of relative and fixed positioning, where the element is treated as relatively positioned until it crosses a specified threshold, after which it is treated as fixed positioning.

49. What is the purpose of the CSS grid layout model?

The CSS grid layout model is used for creating grid-based layouts where elements are placed into rows and columns, allowing for more complex and flexible layouts than traditional methods.

50. Explain the purpose of the CSS transition property.

The transition property allows for the smooth transition of CSS property values over a specified duration, easing function, and delay.

Advanced Questions

51. What is the purpose of the CSS pseudo-elements `::before` and `::after`?

The `::before` and `::after` pseudo-elements are used to insert content before and after an element's content, respectively. They are often used for decorative elements or adding content using CSS.

52. Explain the concept of specificity in CSS and how it is calculated.

Specificity in CSS determines which style rule takes precedence when multiple rules apply to the same element. It is calculated based on the type of selector used, with inline styles having the highest specificity, followed by IDs, classes, and elements.

53. What are the advantages and disadvantages of using CSS preprocessors like Sass or Less?

Advantages of CSS preprocessors include the ability to use variables, mixins, nesting, and functions, which improve code maintainability and reusability. Disadvantages include the need for an additional build step and potential complexity for beginners.

54. What is the purpose of the CSS object-fit property?

The object-fit property specifies how the content of an element should be resized to fit its container. Values include fill, contain, cover, none, and scale-down.

55. What is the purpose of the CSS perspective property?

The perspective property is used in conjunction with 3D transforms to create depth and perspective for transformed elements.

56. Explain the difference between CSS transitions and CSS animations.

CSS transitions are used to smoothly change CSS property values over a specified duration, while CSS animations allow for more complex and customized animations by defining keyframes and animation properties.

57. What is the purpose of the CSS filter property?

The filter property applies graphical effects like blur, grayscale, contrast, brightness, and more to an element's content.

58. What are vendor prefixes in CSS, and why are they used?

Vendor prefixes are prefixes added to CSS property names to specify which browser engine the property applies to. They are used to provide experimental or vendor-specific implementations of CSS features before they are standardized.

59. What is the purpose of the CSS specificity hack?

The CSS specificity hack is a technique used to increase the specificity of a selector to override styles applied by other selectors with lower specificity.

60. What is the purpose of the CSS rem unit, and how does it differ from the em unit?

The rem unit is relative to the font size of the root element, while the em unit is relative to the font size of the parent element. Rem units provide a more predictable and consistent way to size elements across the document.

61. Explain the purpose of the CSS @supports rule.

The @supports rule checks if the browser supports a specific CSS property and value combination, allowing for the conditional application of styles.

62. What is the purpose of the CSS content property?

The content property is used with the ::before and ::after pseudo-elements to insert generated content, such as text, images, or icons.

63. What is the CSS Grid Layout Module Level 2 and its features?

CSS Grid Layout Module Level 2 builds upon the features of the original CSS Grid Layout Module, introducing subgrids, aspect ratio control, gap shorthand, and more.

64. Explain the concept of responsive web design and how CSS is used to achieve it.

Responsive web design is an approach to design and development that ensures web pages render well on various devices and window or screen sizes. CSS media queries are used to apply different styles based on the device's characteristics, such as width, height, and orientation.

65. What is the purpose of the CSS perspective-origin property?

The perspective-origin property specifies the origin point of the perspective for 3D transforms, determining where the viewer is looking at the 3D scene.

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