



# CSS



## Interview Questions & Answers



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## **1. What is CSS?**

- CSS stands for Cascading Style Sheets and is used to style and layout web pages.

## **2. What are the different types of CSS?**

- Inline, Internal, and External.

## **3. What is the difference between padding and margin?**

- Padding is the space inside an element, between the content and the border; margin is the space outside an element, between it and other elements.

## **4. What is the box model in CSS?**

- The box model includes margins, borders, padding, and the actual content area, defining the space an element takes up.

## **5. How can you center a div vertically and horizontally?**

- display: flex; align-items: center; justify-content: center; is one way, or margin: auto; for certain use cases.

## **6. Explain the difference between inline, block, and inline-block elements.**

- inline doesn't start on a new line; block starts on a new line and takes up full width; inline-block acts like inline but respects width/height.

## **7. What is specificity in CSS?**

- Specificity is the order in which styles are applied, based on selector types.

## **8. What are pseudo-classes?**

- Pseudo-classes are keywords added to selectors that specify a special state of the selected elements, e.g., :hover.

## **9. What is the difference between position: relative and position: absolute?**

- relative positions the element based on its normal flow; absolute positions it relative to its closest positioned ancestor.

## **10. What is the z-index property?**

- z-index controls the stacking order of elements that overlap each other.

#### **11.How does CSS inheritance work?**

- Certain CSS properties are inherited from parent to child elements (e.g., color and font-family).

#### **12.What is a CSS reset?**

- A CSS reset removes browser-specific styles to create a consistent base.

#### **13.What is Flexbox?**

- Flexbox is a CSS layout model designed for flexible and responsive layouts.

#### **14.What is Grid in CSS?**

- CSS Grid is a layout system for creating complex layouts on a grid basis.

#### **15.Explain @media queries.**

- @media queries allow CSS to apply styles based on device characteristics like width.

#### **16.What are CSS variables?**

- CSS variables are custom properties for reusing values, declared with --name syntax.

#### **17.What is calc() in CSS?**

- calc() performs calculations for dynamic CSS property values, like width: calc(100% - 50px);.

#### **18.What is the difference between em and rem units?**

- em is relative to the parent element's font size; rem is relative to the root font size.

#### **19.Explain @font-face.**

- @font-face allows custom fonts to be loaded on a webpage.

#### **20.What are CSS animations?**

- CSS animations allow element styles to change over time with keyframes.

### **21. What is a CSS preprocessor?**

- A CSS preprocessor like SASS or LESS adds features to CSS, such as variables, nesting, and mixins.

### **22. Explain CSS Grid vs. Flexbox.**

- Flexbox is ideal for 1D layouts; Grid is for 2D layouts with rows and columns.

### **23. What are pseudo-elements?**

- Pseudo-elements style parts of an element, like `::before` and `::after`.

### **24. What is a combinator selector?**

- Combinators select elements based on relationships, such as `>`, `+`, and `~`.

### **25. What is !important in CSS?**

- !important overrides all other specificity rules but should be used sparingly.

### **26. How do you make text responsive in CSS?**

- Use units like `vw`, `vh`, or relative units like `em` or `rem`.

### **27. What is a CSS grid area?**

- A CSS grid area is a rectangular section of the grid defined by grid lines.

### **28. Explain display: none vs visibility: hidden.**

- `display: none` removes the element from the layout; `visibility: hidden` hides it but retains space.

### **29. What is a descendant selector?**

- A selector that matches all elements that are descendants of a specified element (e.g., `div p`).

### **30. What are CSS counters?**

- CSS counters are used for custom numbering, like auto-incrementing list items.

**31. Explain overflow.**

- Controls how content is handled when it overflows its box (e.g., hidden, scroll, auto).

**32. What is white-space in CSS?**

- white-space controls how whitespace inside an element is handled.

**33. What is object-fit?**

- object-fit specifies how content (e.g., images) should fit within a container.

**34. Explain line-height.**

- line-height controls the vertical spacing of lines of text.

**35. What is the clip-path property?**

- clip-path creates a clipping region to display only part of an element.

**36. What are transitions in CSS?**

- Transitions allow property changes to occur smoothly over a duration.

**37. How do you use the min-width and max-width properties?**

- min-width and max-width restrict the width of an element within specified limits.

**38. Explain vh, vw, vmin, and vmax units.**

- Viewport-based units, where vh is 1% of viewport height, etc.

**39. What are CSS keyframes?**

- Keyframes define specific points in an animation.

**40. Explain overflow-x and overflow-y.**

- Control overflow on individual horizontal (x) or vertical (y) axes.

#### **41. What is the float property?**

- float allows elements to be taken out of normal flow and align left or right.

#### **42. What is clear in CSS?**

- clear is used with float to control wrapping around floated elements.

#### **43. What is a CSS sprite?**

- A single image that contains multiple smaller images for use in UI.

#### **44. Explain CSS custom properties.**

- Custom properties are reusable variables in CSS (--property-name).

#### **45. What is backface-visibility?**

- Controls whether the back face of an element is visible when rotated.

#### **46. Explain CSS units like px, %, and pt.**

- px is pixels, % is relative to parent, and pt is point (often used in print).

#### **47. What is aspect-ratio in CSS?**

- Controls the aspect ratio of an element's width to its height.

#### **48. What does justify-content do?**

- Aligns items along the main axis in flex or grid layouts.

#### **49. What is align-items in Flexbox?**

- Aligns items along the cross-axis in a flex container.

#### **50. Explain filter in CSS.**

- filter applies visual effects like blur or brightness.

#### **51. What is CSS specificity hierarchy?**

- Inline styles > IDs > Classes > Tags.

#### **52. Explain CSS shorthand for properties.**



- Shorthand combines multiple properties, like margin: 10px 15px;.

**53.What is column-gap in Grid?**

- Specifies the space between columns.

**54.How does nth-child work?**

- Selects specific elements in a pattern based on index.

**55.What is text-shadow?**

- Adds shadow effects to text.

**56. How do you create rounded corners in CSS?**

- Use border-radius property.

**57.What is the opacity property?**

- Sets the transparency level of an element.

**58.Explain visibility vs opacity.**

- visibility hides elements; opacity makes them transparent but interactive.

**59. What is word-break?**

- Controls word wrapping within an element.

**60.What does float: left do?**

- Moves an element to the left and allows text or elements to wrap around it.

**61. Explain transform property.**

- transform applies 2D or 3D transformations like rotate or scale.

**62.What is CSS nesting?**

- Placing selectors within others (e.g., SASS syntax).

**63.What are CSS frameworks?**

- Libraries for faster CSS development (e.g., Bootstrap).

**64.Explain justify-items in Grid.**

- Aligns items along the inline (row) axis.

### **65. What is isolation in CSS?**

- Controls stacking context, useful in z-index issues.

### **66. What are @keyframes?**

- Defines the sequence for CSS animations.

### **67. What is the CSS :not() selector?**

- It selects elements that do not match a certain selector (e.g., `div:not(.exclude)`).

### **68. What does @import do in CSS?**

- @import is used to import other CSS files into a stylesheet.

### **69. What is the background-size property?**

- It sets the size of the background image, like cover or contain.

### **70. Explain min-height and max-height.**

- They set minimum and maximum height constraints on an element.

### **71. What does display: table do?**

- It allows an element to behave like a `<table>`, useful for layouts.

### **72. What is the purpose of the backdrop-filter property?**

- It applies graphical effects (like blur) to the area behind an element.

### **73. Explain CSS transitions vs animations.**

- Transitions are simpler and need only two states; animations can have multiple keyframes.

### **74. What is a CSS polyfill?**

- It's a workaround that allows you to use newer CSS features in older browsers.

### **75. How does transform-origin work?**

- It sets the point around which a transform (like rotate) occurs.

### **76. What are ch and ex units in CSS?**

- ch is the width of the 0 character, and ex is the height of x in the font.



**77. What is the user-select property?**

- It controls if users can select text in an element (e.g., none, text).

**78. How do you create a sticky header?**

- Use position: sticky; along with a top value to make it stick on scroll.

**79. What does the pointer-events property do?**

- It controls if an element can respond to pointer events like clicks.

**80. What is box-shadow in CSS?**

- It applies a shadow effect to an element's box.

**81. What is a linear gradient in CSS?**

- A smooth transition between two or more colors along a line.

**82. How does :first-of-type differ from :first-child?**

- :first-of-type selects the first element of its type, while :first-child selects the first child regardless of type.

**83. What is the resize property?**

- It allows or restricts the ability to resize an element, like a textarea.

**84. What is display: grid?**

- It enables the grid layout model, dividing the container into rows and columns.

**85. How does @supports work?**

- @supports is a feature query to apply styles only if the browser supports a feature.

**86. What is the difference between :nth-child and :nth-of-type?**

- :nth-child counts all children; :nth-of-type only counts elements of a specific type.

**87. What are the different background properties in CSS?**

- background-color, background-image, background-position, background-size, etc.

**88. What does writing-mode control?**

- It sets the text orientation (e.g., horizontal, vertical).

**89.What is will-change used for in CSS?**

- It hints to the browser about expected changes, helping with performance.

**90.How does the :focus pseudo-class work?**

- It applies styles when an element is focused, like on click or tab navigation.

**91.What is overflow-wrap?**

- It specifies if lines should break within words to prevent overflow.

**92.What is -webkit- prefix?**

- It's a vendor prefix for CSS properties specific to WebKit browsers like Chrome and Safari.

**93.How can you optimize CSS performance?**

- Use fewer complex selectors, reduce unnecessary reflows, use CSS shorthand, and limit the use of @import.

**94.What is mix-blend-mode?**

- It defines how an element's content blends with its background.

**95.Explain the CSS content property.**

- Used in pseudo-elements like ::before and ::after to insert content.

**96.What is CSS scroll-snap?**

- It allows smooth scrolling that "snaps" elements into place.

**97.What does filter: blur(); do?**

- Applies a blur effect to an element.

**98.Explain the :hover pseudo-class.**

- It applies styles when the user hovers over an element.

**99.What is float used for in CSS?**

- To wrap text around an element and align elements side-by-side.

100.      **How does display: flex help with layout?** - It provides a flexible layout structure to align and distribute items within a container.

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