

# Top 20 CSS Interview Questions & Answers

## 01. What is the difference between ``relative``, ``absolute``, ``fixed``, and ``sticky`` positioning in CSS?

Answer: ``relative`` moves element from its normal position. ``absolute`` positions relative to nearest positioned ancestor. ``fixed`` stays relative to viewport. ``sticky`` toggles between relative and fixed based on scroll position.

## 02. What is specificity in CSS and how is it calculated?

Answer: Specificity determines which rule is applied when multiple rules match. Its calculated using a point system: inline styles > IDs > classes > elements. More specific rules override less specific ones.

## 03. Whats the difference between ``em``, ``rem``, ``%``, and ``px`` units?

Answer: ``px`` is absolute. ``em`` is relative to the element's font-size. ``rem`` is relative to root (``html``) font-size. ``%`` is relative to parent element's value.

## 04. What is the box model in CSS?

Answer: The box model consists of ``content``, ``padding``, ``border``, and ``margin``. Understanding how each layer adds to total size helps in layout calculations.

## 05. What is the difference between ``visibility: hidden`` and ``display: none``?

Answer: ``visibility: hidden`` hides the element but keeps its space. ``display: none`` removes it from the layout entirely.

## 06. How does ``z-index`` work and when does it fail?

Answer: ``z-index`` controls stacking order of elements. It only works on positioned elements (relative, absolute, fixed). If parent doesn't have positioning, it may behave unexpectedly.

## 07. What is the difference between ``min-width``, ``max-width``, and ``width``?

Answer: ``width`` sets fixed size. ``min-width`` ensures the element doesnt shrink below a value. ``max-width`` ensures it doesnt grow beyond a value. Useful in responsive design.

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### 08. Explain the concept of Flexbox in CSS.

Answer: Flexbox is a layout model that arranges items in rows or columns. It offers alignment, spacing, and distribution capabilities without using float or positioning.

### 09. Difference between `auto`, `inherit`, `initial`, and `unset` values?

Answer: `auto` uses browser default. `inherit` takes value from parent. `initial` resets to default CSS spec. `unset` behaves like `inherit` for inherited properties and `initial` for others.

### 10. How do media queries work in CSS?

Answer: Media queries apply styles based on device characteristics like width, height, or orientation. They enable responsive design by targeting different screen sizes.

### 11. What is the difference between `inline`, `block`, and `inline-block` elements?

Answer: `inline` flows with text but doesn't accept height/width. `block` breaks line and accepts box model. `inline-block` acts like inline but respects height/width.

### 12. What are pseudo-classes and pseudo-elements in CSS?

Answer: Pseudo-classes (e.g., `:hover`, `:nth-child()`) style elements based on state or position. Pseudo-elements (e.g., `::before`, `::after`) create virtual elements in the DOM for styling.

### 13. How does the `calc()` function work in CSS?

Answer: `calc()` allows dynamic calculations in CSS (e.g., `width: calc(100% - 60px)`). Useful for flexible layouts that require arithmetic.

### 14. What are CSS variables and why use them?

Answer: CSS variables (`--primary-color`) allow reuse of values across stylesheets. They improve maintainability and support dynamic theming with JavaScript.

### 15. What's the difference between `transition`, `transform`, and `animation` in CSS?

Answer: `transition` animates changes on hover/focus. `transform` changes appearance (rotate, scale).

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``animation`` provides multi-step keyframe sequences.

### 16. What is the stacking context and how is it created?

Answer: A stacking context is a 3D space for elements' rendering order. Its created by elements with ``position`` and ``z-index``, or CSS properties like ``opacity < 1`` or ``transform``.

### 17. Whats the difference between ``overflow: auto``, ``scroll``, ``hidden``, and ``visible``?

Answer: ``auto`` shows scrollbars only when needed. ``scroll`` always shows them. ``hidden`` clips content. ``visible`` shows overflow without scrollbars.

### 18. What is a pseudo-element and how is it used?

Answer: Pseudo-elements like ``::before`` and ``::after`` insert content before/after an element. They're useful for styling without adding extra DOM nodes.

### 19. How to center a div both horizontally and vertically?

Answer: Use Flexbox: ``display: flex; justify-content: center; align-items: center;`` on the parent. Alternatively, use absolute positioning with ``transform: translate(-50%, -50%)``.

### 20. How does the ``object-fit`` property work?

Answer: ``object-fit`` defines how media like images/videos should resize within a container. Values like ``cover``, ``contain``, and ``fill`` control the fit behavior.