

# 100 JavaScript & CSS Interview Questions (Basics + ES6)

## JavaScript (70 Questions)

### Basics (15)

- What is JavaScript, and how is it different from Java?
- Explain == vs ===.
- What are null, undefined, and NaN?
- What is hoisting in JavaScript?
- Difference between var, let, and const.
- What are primitive and reference types?
- Explain scope in JavaScript.
- What are template literals in ES6?
- What is the difference between synchronous and asynchronous JS?
- What is an Immediately Invoked Function Expression (IIFE)?
- Explain the difference between function declaration and function expression.
- What is a closure? Give an example.
- What is a callback function?
- What is the difference between window and document objects?
- Explain event loop and call stack in JS.

### DOM & Events (10)

- How do you select elements in the DOM (getElementById, querySelector, etc.)?
- Difference between innerHTML, innerText, and textContent.
- How do you create and append elements dynamically in the DOM?
- What are event bubbling and capturing?
- What is event delegation? Why is it useful?
- Difference between addEventListener and onclick.
- How do you prevent a form from submitting?
- How do you remove an element from the DOM?
- Explain stopPropagation() vs preventDefault().
- How to toggle a CSS class using JavaScript?

### Arrays & Strings (15)

- How do you loop through an array (for, for...of, forEach)?
- Difference between map, filter, and reduce.
- How does forEach() differ from map()?
- How do you flatten a nested array?
- How do you remove duplicates from an array?
- How do you sort numbers correctly in JS?
- What is the difference between slice() and splice()?
- How does concat() differ from the spread operator [...arr]?
- How do you check if an element exists in an array?
- What is the difference between find() and filter()?
- What does Array.from() do?
- How do you reverse a string in JS?
- How do you check if a string contains a substring (includes, indexOf)?

- How do you convert a string to an array?
- How do you capitalize the first letter of each word in a string?

## Objects (10)

- What is the difference between dot notation and bracket notation?
- How do you clone an object? (shallow vs deep copy)
- What is object destructuring?
- Explain nested destructuring with an example.
- What is the difference between `Object.keys()`, `Object.values()`, and `Object.entries()`?
- How do you merge two objects?
- What are getter and setter methods in objects?
- Explain this keyword in different contexts.
- How do you delete a property from an object?
- How do you freeze an object (`Object.freeze()`)?

## ES6+ Features (15)

- What is ES6? Why was it important?
- Difference between arrow functions and regular functions.
- What are default function parameters?
- What is the difference between rest (`...args`) and spread (`...array`) operators?
- Explain template literals and tagged templates.
- What is destructuring in JS?
- How do modules work in ES6 (`import` / `export`)?
- What are promises? Explain states of a promise.
- What is `async/await`?
- What is the difference between promise chaining and `async/await`?
- Explain `Set` and `Map` in ES6.
- What is the difference between `for...in` and `for...of` loops?
- What is the difference between shallow copy and deep copy in ES6?
- What is `Symbol` in ES6?
- What are generators (`function*`)?

## Advanced/Intermediate (10)

- What is the difference between `localStorage`, `sessionStorage`, and cookies?
- What is JSON? How do you parse and stringify JSON?
- What is the difference between synchronous and asynchronous code?
- What is AJAX, and how is it used?
- What is `fetch()` API?

## CSS (30 Questions)

### Basics (10)

- Difference between inline, internal, and external CSS.
- Difference between absolute, relative, fixed, and sticky positioning.
- Difference between inline, block, and inline-block.
- What is the difference between `em`, `rem`, `px`, `%`, and `vh/vw` units?
- What are pseudo-classes? Give examples.
- What are pseudo-elements? Give examples.
- Difference between `nth-child` and `nth-of-type`.

- What is the difference between ID and class selectors?
- Difference between opacity and visibility: hidden.
- What is the difference between absolute and relative paths in CSS?

## **Layout & Positioning (10)**

- Difference between Flexbox and Grid.
- How do you center a div using flexbox?
- What are the properties of flexbox (justify-content, align-items, etc.)?
- What is the difference between inline-flex and flex?
- How do you create a responsive grid using CSS Grid?
- What are media queries?
- Write a media query for devices under 768px.
- Difference between mobile-first and desktop-first approach.
- What is the difference between relative units and absolute units in CSS?
- What are breakpoints in responsive design?

## **Advanced/Intermediate (10)**

- What is the difference between position: sticky and fixed?
- What are CSS transitions? Give an example.
- What are CSS animations (@keyframes)?
- Difference between inline-style and !important.
- What is the difference between min-width, max-width, and width?
- What is a CSS variable (custom property)?
- How does z-index work?
- Difference between relative and absolute imports in CSS (url() usage).
- What is the difference between responsive design and adaptive design?
- What are CSS preprocessors (Sass, SCSS) and why use them?