

HTML, CSS & JavaScript Interview Q&A; (Simple 3-Line Answers)

1) HTML5 features

HTML5 adds semantic tags (header, footer, article), audio/video support, canvas, local storage, and improved forms and APIs.

2) What is doctype declaration?

Doctype tells the browser which HTML version to use; in HTML5 it's simply `<!DOCTYPE html>` to enable standards mode.

3) Difference between div and span tag?

`<div>` is a block-level container used for layout, while `` is inline and used for small text or inline grouping.

4) HTML5 tags

Key tags include `<header>`, `<footer>`, `<main>`, `<section>`, `<article>`, `<nav>`, `<figure>`, `<figcaption>`, `<audio>`, and `<video>`.

5) Semantic tags in HTML

Semantic tags convey meaning to browsers and developers, like `<header>`, `<footer>`, `<article>`, `<aside>`, and `<nav>`.

6) What is RWD?

Responsive Web Design makes layouts adapt to different screen sizes using flexible grids, media queries, and fluid images.

7) CSS3 features (Box model etc)

CSS3 adds advanced selectors, transitions, animations, flexbox, grid, border-radius, box-shadow, and improved box-model control.

8) What is meta tag in HTML?

Meta tags provide page metadata such as charset, viewport, description, and keywords, often used for SEO and responsive behavior.

9) Types of CSS selectors

Selectors include universal (*), type (tag), class (.), id (#), attribute ([attr]), pseudo-classes (:hover) and pseudo-elements (::after).

10) Difference between id and class?

id is unique per page and used for single elements, class can be reused on many elements for shared styling.

11) What is DOM?

DOM (Document Object Model) is a tree-like representation of the page that JavaScript can traverse and manipulate.

12) What is JavaScript?

JavaScript is a client-side scripting language used to add interactivity, manipulate the DOM, and communicate with servers.

13) What is client-side validation?

Validation performed in the browser using JavaScript to check user input before sending it to the server for faster feedback.

14) JavaScript event handling

Events like click, input, and submit are handled with listeners (addEventListener) to respond to user actions.

15) What is jQuery and JavaScript?

JavaScript is the core language; jQuery is a lightweight library that simplifies DOM selection, events, and AJAX calls.

16) Explain Bootstrap grid system

Bootstrap grid uses a 12-column responsive layout with row and column classes (e.g., `.row`, `.col-md-6`) to structure pages.

17) Two types of container in Bootstrap

container (fixed-width, responsive breakpoints) and container-fluid (full-width, spans entire viewport).

18) Media query in CSS

Media queries apply CSS rules conditionally based on device features like width, height, resolution or orientation.

19) Bootstrap Navbar, card layout

Navbar is a responsive navigation component; Card is a flexible content container with header, body, and footer sections.

20) What is strict equality in JavaScript?

`===` checks both value and type without type conversion, while `==` compares values after coercion.

21) What is JSON?

JSON (JavaScript Object Notation) is a lightweight structured data format using key-value pairs, widely used in APIs.

22) What is JSON.stringify?

JSON.stringify converts a JavaScript object into a JSON-formatted string suitable for sending over the network.