

Web Development Interview Questions and Answers

1. What is semantic HTML?

Semantic HTML uses HTML5 elements that convey meaning (e.g., <article>, <section>, <header>) to improve readability and SEO.

2. How does CSS Flexbox differ from Grid?

Flexbox is one-dimensional (row or column), while Grid is two-dimensional (rows and columns).

3. What are media queries?

Media queries are CSS techniques used to apply styles based on device characteristics like width or resolution.

4. How do you make a website responsive?

By using flexible layouts, relative units, and media queries to adapt the site to various screen sizes.

5. Explain the box model.

The box model consists of content, padding, border, and margin areas that determine an element's size.

6. What is the difference between classes and IDs in CSS?

Classes are reusable and defined with '.', IDs are unique and defined with '#'.

7. How can you optimize CSS for performance?

By minimizing file size, removing unused styles, and combining multiple stylesheets.

8. What is the difference between relative and absolute positioning?

Relative positions an element based on its normal flow, while absolute removes it from the flow and positions relative to the nearest positioned ancestor.

9. How does the z-index property work?

z-index defines the stack order of overlapping elements; higher values appear in front.

10. What is the difference between padding and margin?

Padding is inside the element's border, margin is the space outside the element.