



# FRONT END INTERVIEW QUESTIONS

## ❖ GENERAL:

- ❖ What did you learn yesterday/this week?
- ❖ What excites or interests you about coding?
- ❖ What is a recent technical challenge you experienced and how did you solve it?
- ❖ When building a new web site or maintaining one, can you explain some techniques you have used to increase performance?
- ❖ Can you describe some SEO best practices or techniques you have used lately?
- ❖ Can you explain any common techniques or recent issues solved in regards to front-end security?
- ❖ What actions have you personally taken on recent projects to increase maintainability of your code?
- ❖ Talk about your preferred development environment.
- ❖ Which version control systems are you familiar with?
- ❖ Can you describe your workflow when you create a web page?
- ❖ If you have 5 different stylesheets, how would you best integrate them into the site?
- ❖ Can you describe the difference between progressive enhancement and graceful degradation?
- ❖ How would you optimize a website's assets/resources?
- ❖ How many resources will a browser download from a given domain at a time?
- ❖ What are the exceptions?
- ❖ Name 3 ways to decrease page load (perceived or actual load time).
- ❖ If you jumped on a project and they used tabs and you used spaces, what would you do?
- ❖ Describe how you would create a simple slideshow page.
- ❖ If you could master one technology this year, what would it be?
- ❖ Explain the importance of standards and standards bodies.
- ❖ What is Flash of Unstyled Content? How do you avoid FOUC?
- ❖ Explain what ARIA and screenreaders are, and how to make a website accessible.
- ❖ Explain some of the pros and cons for CSS animations versus JavaScript animations.
- ❖ What does CORS stand for and what issue does it address?
- ❖ How did you handle a disagreement with your boss or your collaborator?
- ❖ What resources do you use to learn about the latest in front end development and design?
- ❖ What skills are needed to be a good front-end developer?
- ❖ What role do you see yourself?
- ❖ Explain the difference between cookies, session storage, and local storage?

## ❖ HTML:

- ❖ What does a doctype do?
- ❖ How do you serve a page with content in multiple languages?
- ❖ What kind of things must you be wary of when designing or developing for multilingual sites?
- ❖ What are data- attributes good for?
- ❖ Consider HTML5 as an open web platform. What are the building blocks of HTML5?
- ❖ Describe the difference between a cookie, sessionStorage and localStorage.
- ❖ Describe the difference between `<script>`, `<script async>` and `<script defer>`.
- ❖ Why is it generally a good idea to position CSS `<link>`s between `<head></head>` and JS `<script>`s just before `</body>`? Do you know any exceptions?
- ❖ What is progressive rendering?
- ❖ Why you would use a srcset attribute in an image tag? Explain the process the browser uses when evaluating the content of this attribute.
- ❖ Have you used different HTML templating languages before?
- ❖ What is the difference between canvas and svg?

## ❖ CSS:

- ❖ What is CSS selector specificity and how does it work?
- ❖ What's the difference between "resetting" and "normalizing" CSS? Which would you choose, and why?
- ❖ Describe Floats and how they work.
- ❖ Describe z-index and how stacking context is formed.
- ❖ Describe BFC (Block Formatting Context) and how it works.
- ❖ What are the various clearing techniques and which is appropriate for what context?
- ❖ How would you approach fixing browser-specific styling issues?
- ❖ How do you serve your pages for feature-constrained browsers?
- ❖ What techniques/processes do you use?
- ❖ What are the different ways to visually hide content (and make it available only for screen readers)?
- ❖ Have you ever used a grid system, and if so, what do you prefer?
- ❖ Have you used or implemented media queries or mobile specific layouts/CSS?
- ❖ Are you familiar with styling SVG?
- ❖ Can you give an example of an @media property other than screen?
- ❖ What are some of the "gotchas" for writing efficient CSS?
- ❖ What are the advantages/disadvantages of using CSS preprocessors?
- ❖ Describe what you like and dislike about the CSS preprocessors you have used.
- ❖ How would you implement a web design comp that uses non-standard fonts?
- ❖ Explain how a browser determines what elements match a CSS selector.
- ❖ Describe pseudo-elements and discuss what they are used for.
- ❖ Explain your understanding of the box model and how you would tell the browser in CSS to render your layout in different box models.
- ❖ What does `* { box-sizing: border-box; }` do? What are its advantages?
- ❖ What is the CSS display property and can you give a few examples of its use?
- ❖ What's the difference between inline and inline-block?
- ❖ What's the difference between the "nth-of-type()" and "nth-child()" selectors?
- ❖ What's the difference between a relative, fixed, absolute and statically positioned element?
- ❖ What existing CSS frameworks have you used locally, or in production? How would you change/improve them?
- ❖ Have you used CSS Grid?
- ❖ Can you explain the difference between coding a web site to be responsive versus using a mobile-first strategy?
- ❖ Have you ever worked with retina graphics? If so, when and what techniques did you use?
- ❖ Is there any reason you'd want to use `translate()` instead of absolute positioning, or vice-versa? And why?
- ❖ How is `clearfix` css property useful?
- ❖ Can you explain the difference between px, em and rem as they relate to font sizing?
- ❖ Can you give an example of a pseudo class? Can you provide an example use case for a pseudo class?
- ❖ What is the difference between a block level element and an inline element. Can you provide examples of each type of element?

## ❖ JAVASCRIPT:

- ❖ Explain event delegation.
- ❖ Explain how this works in JavaScript.
- ❖ Can you give an example of one of the ways that working with this has changed in ES6?
- ❖ Explain how prototypal inheritance works.
- ❖ What's the difference between a variable that is: null, undefined or undeclared?
- ❖ How would you go about checking for any of these states?
- ❖ What is a closure, and how/why would you use one?
- ❖ What language constructions do you use for iterating over object properties and array items?
- ❖ Can you describe the main difference between the `Array.forEach()` loop and `Array.map()` methods and why you would pick one versus the other?
- ❖ What's a typical use case for anonymous functions?

- ❖ What's the difference between host objects and native objects?
- ❖ Explain the difference between: `function Person(){}`, `var person = Person()`, and `var person = new Person()`?
- ❖ Explain the differences on the usage of `foo` between `function foo() {}` and `var foo = function() {}`
- ❖ Can you explain what `Function.call` and `Function.apply` do? What's the notable difference between the two?
- ❖ Explain `Function.prototype.bind`.
- ❖ What's the difference between feature detection, feature inference, and using the UA string?
- ❖ Explain "hoisting".
- ❖ Describe event bubbling.
- ❖ Describe event capturing.
- ❖ What's the difference between an "attribute" and a "property"?
- ❖ What are the pros and cons of extending built-in JavaScript objects?
- ❖ What is the difference between `==` and `===`?
- ❖ Explain the same-origin policy with regards to JavaScript.
- ❖ Why is it called a Ternary operator, what does the word "Ternary" indicate?
- ❖ What is strict mode? What are some of the advantages/disadvantages of using it?
- ❖ What are some of the advantages/disadvantages of writing JavaScript code in a language that compiles to JavaScript?
- ❖ What tools and techniques do you use debugging JavaScript code?
- ❖ Explain the difference between mutable and immutable objects.
- ❖ What is an example of an immutable object in JavaScript?
- ❖ What are the pros and cons of immutability?
- ❖ How can you achieve immutability in your own code?
- ❖ Explain the difference between synchronous and asynchronous functions.
- ❖ What is event loop?
- ❖ What is the difference between call stack and task queue?
- ❖ What are the differences between variables created using `let`, `var` or `const`?
- ❖ What are the differences between ES6 class and ES5 function constructors?
- ❖ Can you offer a use case for the new arrow `=>` function syntax? How does this new syntax differ from other functions?
- ❖ What advantage is there for using the arrow syntax for a method in a constructor?
- ❖ What is the definition of a higher-order function?
- ❖ Can you give an example for destructuring an object or an array?
- ❖ Can you give an example of generating a string with ES6 Template Literals?
- ❖ Can you give an example of a curry function and why this syntax offers an advantage?
- ❖ What are the benefits of using spread syntax and how is it different from rest syntax?
- ❖ How can you share code between files?
- ❖ Why you might want to create static class members?
- ❖ What is the difference between `while` and `do-while` loops in JavaScript?
- ❖ What is a promise? Where and how would you use promise?

## ❖ TESTING:

- ❖ What are some advantages/disadvantages to testing your code?
- ❖ What tools would you use to test your code's functionality?
- ❖ What is the difference between a unit test and a functional/integration test?
- ❖ What is the purpose of a code style linting tool?
- ❖ What are some of the testing best practices?

## ❖ PERFORMANCE:

- ❖ What tools would you use to find a performance bug in your code?
- ❖ What are some ways you may improve your website's scrolling performance?
- ❖ Explain the difference between layout, painting and compositing.

## ❖ MISC:

- ❖ What's a cool project that you've recently worked on?
- ❖ What are some things you like about the developer tools you use?

- ❖ Who inspires you in the front-end community?
- ❖ Do you have any pet projects? What kind?
- ❖ What's your favorite feature of Internet Explorer?