* 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?