Frontend Developer Theory questions

# JAVAScript

1. Describe “Lexical scope” in JAVAScript

* Good: An internal browser engine object containing a function’s scope/context,

\*Mentioning ‘this’, is partial correct because it has to do more with call-site rather than scope.

* Bad: not knowing what is a scope or that it has anything to do with functions,

{} block is not scope

1. Describe the concept of Hoisting in JAVAScript

* Good: The decleration of variables and functions moving to the top, but not the value assignment.
* Better: knowing the difference between function(){} and var foo = function(){}
* Bad: not knowing about hoisting or what it means

1. What does ‘this’ reserved word is doing in JAVAScript?

* Good: mentioning call-site, apply, call and bind

Mentioning classes and how to write a class

* Bad: not knowing what apply call and bind are

1. Describe Inheritance in JAVAScript

* Good: mentioning prototype and prototypal inheritance, classes and instances (although classes and instances it is not 100% correct)

Even better: mentioning prototype ‘linkage’, shadowing, Object.create(), ‘new’

Delegation/prototype chain

Bad: not knowing what is prototype and how its related to inheritance

1. What’s new in ECMAScript 6 (ES6) AKA ECMAScript 2015 ?

* Good: Mentioning some new features like: classes, let, proxy, promises, lambda functions, modules, etc…
* Bad: Failing to mention at least 1 new feature

# CSS

1. Describe CSS specificity

* !important
* #ID
* Class ( .class ), attribute ( [type=’radio’] ) or pseudo classes (:hover)
* Type (h1), pseudo elements ( :before)
* Good: at least knowing what they all mean
* Very good: knowing them all and their order
* Bad: failing to mention anything other than id and class.

1. What is responsive design and how do you implement it in CSS?

* Media queries / mentioning as less sizes as possible and using %.

1. What are the most important CSS properties for layouting?

* Position, display

# HTML

1. What’s the main difference between a <span> and a <div> ?

* Div is block, span is inline – this should also come with an explanation what is block and inline

1. Mention a couple of HTML5 features you have heard of or worked with

* New elements <section>, <header>, <footer> …
* New Input types (search, color, date, email, tel) …
* Canvas and SVG
* New media elements (audio, embed, video)…
* Internal storage, session storage, WEBSQL storage, indexed storage
* Good: mentioning at least internal storage, section, and Canvas/SVG
* Bad: failing to mention any

# SASS – optional (if you know CSS, SASS is easy to learn)

1. How is SASS different from CSS ?

* It’s a CSS extension that supports variables, visual hierarchy, mixins, inheritance and operators
* Good: knowing what is sass or less and mentioning some or all of the above

1. What is SCSS and how it is related to SASS and what is the difference?

* SCSS is the new syntax for sass (previously is was based on indentation)

1. What are mixins?

* mixins are reusable CSS styles, they are like macros for CSS, they can also receive parameters