

## Data Processing

*Eelco Alink*

**1459006**

### **Explain the difference between the == operator and the === operator.**

The difference is that the == operator means equal to and the === means identical to. For instance 0 == False, because they have the same value. 0 === False is not correct, because although they have the same value, they are not the same.

### **Explain what a closure is. (Note that JavaScript programs use closures very often.)**

A closure means the use of a function within a larger function. This inner function can make use of all the variables within the outer function

### **Explain what higher order functions are.**

These are functions that take other functions as arguments.

### **Explain what a query selector is and give an example line of JavaScript that uses a query selector.**

A query selector is a method to effectively find one or more DOM elements that match the query. The found element is then stored, not live.

Example<sup>1</sup>:

```
<script>
function count(selector) {
    return document.querySelectorAll(selector).length;
}
console.log(count("p"));           // All <p> elements
// → 4
console.log(count(".animal"));    // Class animal
// → 2
console.log(count("p .animal"));  // Animal inside of <p>
// → 2
console.log(count("p > .animal")); // Direct child of <p>
// → 1
</script>
```

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<sup>1</sup> As seen in eloquent Javascript chapter 13 ([http://eloquentjavascript.net/13\\_dom.html](http://eloquentjavascript.net/13_dom.html))