

## Questions Week2

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

The === operator checks whether values are precisely equal. Where as == is able to make a lot of assumptions, for example "" == false -> true, "" === false -> false

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

Closure is the situation that a variable is only "lives" within the closing brackets of the function it is encapsulated in. For a variable its closure is the function enclosing it.

3. *Explain what higher order functions are.*

"Functions that operate on other functions, either by taking them as arguments or by returning them, are called higher-order functions." [1]

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

A querySelector searches through the document object and selects items based on the selector that it was given as an argument.

The querySelector method does not return a list, but returns the first match or null if there was no match.

Demonstration code line:

```
Document.body.querySelectorAll("a")[0].HTMLcontent
```

"Unlike methods such as getElementByTagName, the object returned by querySelectorAll is not live. It won't change when you change the document." [2]

Sources:

[1]: [http://eloquentjavascript.net/05\\_higher\\_order.html](http://eloquentjavascript.net/05_higher_order.html)

[2] [http://eloquentjavascript.net/13\\_dom.html](http://eloquentjavascript.net/13_dom.html)