

## Reading assignment JavaScript

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

By using `==` in JavaScript, you check not strict if something is equal to something else. Using `==` will try and convert one side of the expression to be the same type as the other, for example a Boolean and an integer.

By using `===`, you check strict if something is equal to something else. Strict checks not only the quality of the two values, but it compares the two values too. It does not try and convert before doing the comparison, it just compares the two different data types.

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

A closure is the combination of a function and the lexical environment within which that function was declared. This environment consists of any local variables that were in-scope at the time the closure was created.

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. These functions allow us to abstract over actions, not just values. They come in several forms, for example functions that create new functions or functions that change other functions.

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

The `querySelector()` method returns the first element that matches a specified CSS selector(s) in the document. It can also return null if there are no matches. Use `querySelectorAll()` to return a collection of elements. It takes a selector string and returns an array-like object containing all the elements that it matches. The selector method is an effective way to find DOM elements.