

Rosa Slagt

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### Questions week 3

- Explain the difference between the == operator and the === operator:

*The main difference between "==" and "===" operator is that "==" compares variable by making type correction, whereby "===" checks the value and the type of the variables. If those variables are the same type "===" return false, while "==" return true.*

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

*Closures are inner functions inside of an outer function, which are a neat way to deal with scope struggles since they have their own local scope. They also have access to outer function's scope, parameters and global variables. Closures are used because Javascript is a function-level scope and an asynchronous/event driven language.*

- Explain what higher order functions are.

*A higher-order function is a function that can take another function as an argument, or that returns a function as a result.*

- 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. If no matches are found, null is returned.*

```
<div id="foo\bar"></div>
<div id="foo:bar"></div>

<script>
  console.log('#foo\bar');           // "#fooar" (\b is the backspace control character)
  document.querySelector('#foo\bar'); // Does not match anything

  console.log('#foo\\bar');          // "#foo\bar"
  console.log('#foo\\\\bar');         // "#foo\\bar"
  document.querySelector('#foo\\\\bar'); // Match the first div

  document.querySelector('#foo:bar'); // Does not match anything
  document.querySelector('#foo\\:bar'); // Match the second div
</script>
```