

# Reading: Data Processing

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

When using the == operator variable types that are being compared can be converted, so `0 == false` is true. With the === operator it is checked whether the two variables are exactly the same: `0 === false` is false.

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

Closure uses the way in which javascript stores variables; a function has access to the variables 'above' it. Closure uses a variable that is created inside a function(1), this variable is then used in another function(2), which is nested inside function(1).

3. *Explain what higher order functions are.*

Higher order functions are functions that operate on other functions. If a higher order function is called it can return a function as a result. So, the resulting 'variable' (which contains a function) can be called.

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

A query selector can select elements out of a DOM object, using several of its properties. Example: `nParagraphs = document.querySelectorAll("p").length`