

What are the operators "&&", "||", "==" and "===" used for? What is the difference between the last two?

All those operators are logical operators.&& is an AND operator compare two or more inputs return true if both operands are true return false otherwise.

|| logical operation of OR.It compares two or more inputs and return true if one of the operands true.

== is used to compare 2 values return true if the comparison true.

=== is used to compare 2 values and also their types.Inputs also must be in the same type to return true.

What is DOM? What are the ways to get DOM elements?

DOM refers to Document Object Model is an interface for web documents.It represents the structure of a webpage as a tree of objects.

There are many ways to get DOM elements.One of them are:

`document.getElementById()`

`document.getElementsByClassName()`

`document.getElementsByTagName()`

`document.querySelector()`

How do I access the elements of an iframe loaded from a third-party domain?

If you control both the parent and the iframe content, you can use the postMessage API to safely send messages between the parent window and the iframe.Also it prevent us to directly acces to DOM because of security.

What is scope, and what does "this" mean?

Scope refers to the current context of execution in JavaScript. It determines the visibility and lifetime of variables.There are two main scope types.Global Scope can accessible from anywhere in the code.Local Scope which is variables declared inside a function or block are in the local scope. These variables are only accessible within that function or block.

This is a special keyword in JavaScript that refers to the object that is currently executing the code. The value of this depends on the context in which it is used

How would you implement the "Array.prototype.map" method?

To implement the Array.prototype.map method from scratch, you would create a function that takes a callback function as an argument and returns a new array where each element is the result of applying the callback function to the corresponding element in the original array.

What is the difference between synchronous and asynchronous functions in javascript?

Synchronous functions are executed sequentially, meaning each operation must complete before the next one starts. The code runs line by line, and if a particular line of code takes time, the execution is paused until that line completes. Synchronous code is blocking, which means that if an operation takes a long time, it will block the execution of the subsequent code.

Asynchronous functions allow the program to initiate a task and then move on to other tasks without waiting for the initial one to complete. Asynchronous code is non-blocking, meaning the program can continue executing other tasks while waiting for the asynchronous operation to complete.