

JavaScript Code Mistakes and Solutions 2



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Not using 'strict mode':

'Strict mode' is a mode that restricts some of the JavaScript language's implicit features and enforces more strict rules. Not using 'strict mode' can lead to unexpected behavior. The solution is to always use 'strict mode' at the beginning of your script or function.

```
'use strict';
```

Using for-in loop incorrectly:

The for-in loop is used to loop through the properties of an object. However, it also iterates through inherited properties, which can lead to unexpected behavior. The solution is to use 'Object.hasOwnProperty()' to check if the property is an own property.

```
for (let prop in object) {  
  if (object.hasOwnProperty(prop)) {  
    // Do something with the property  
  }  
}
```

Modifying the prototype of built-in objects:

Modifying the prototype of built-in objects, such as 'Array', can cause unexpected behavior in your code and other libraries. The solution is to avoid modifying the prototypes of built-in objects.

Using 'eval()':

'Eval()' is a function that executes a string as code. However, it can also execute malicious code and cause security

vulnerabilities. The solution is to avoid using 'eval()' and find alternative solutions.

Not handling promises correctly:

Promises are used to handle asynchronous code, but not handling them correctly can cause bugs and unexpected behavior. The solution is to always handle the resolve and reject cases, and to chain promises correctly.

```
promise.then((result) => {  
  // Handle success  
}).catch((error) => {  
  // Handle error  
});
```

Using 'setTimeout()' incorrectly:

'setTimeout()' is used to execute a function after a specified time delay, but not using it correctly can cause unexpected behavior. The solution is to always include the time delay as the second parameter and to wrap the function in an arrow function to avoid using 'this' incorrectly.

```
setTimeout(() => {  
  // Do something after the time delay  
, timeDelay);
```

Not using 'const' or 'let':

Using 'var' to declare variables can cause variable hoisting and scoping issues. The solution is to use 'const' or 'let' to declare variables instead, which have block scoping.

Using 'new Object()':

Using the 'new Object()' syntax to create objects is verbose and unnecessary. The solution is to use object literal syntax instead.

```
const obj = {};
```

Not understanding closures:

Closures are used to create private variables and functions, but not understanding them can cause unexpected behavior. The solution is to understand the scope of variables and functions and how they interact with each other.

```
function createCounter() {  
  let count = 0;  
  return function() {  
    count++;  
    console.log(count);  
  };  
}  
  
const counter = createCounter();  
counter(); // Output: 1  
counter(); // Output: 2
```

Using '== null' instead of '=== null':

Using '== null' to check if a variable is null or undefined can lead to unexpected behavior because it also matches false, 0, and empty strings. The solution is to use '=== null' to check if a variable is strictly equal to null.

```
if (variable === null) {
```

```
// Do something if variable is strictly equal to null  
}
```