

JS

HOISTING IN JAVASCRIPT

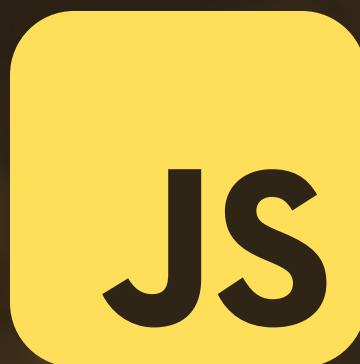
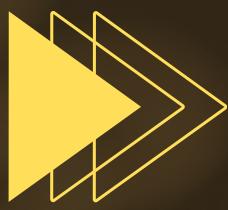


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JAVASCRIPT HOISTING

JavaScript **hoisting** is a behavior where variable and function **declarations** are moved to the top of their containing scope during the compile phase.

This means you can use variables and functions before they are **declared** in the code.

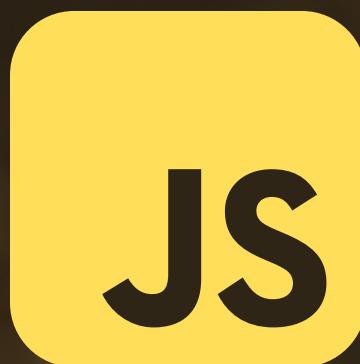
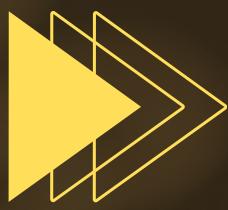


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JAVASCRIPT HOISTING

There are two types of hoisting in the JavaScript.

1. Variable Hoisting
2. Function Hoisting

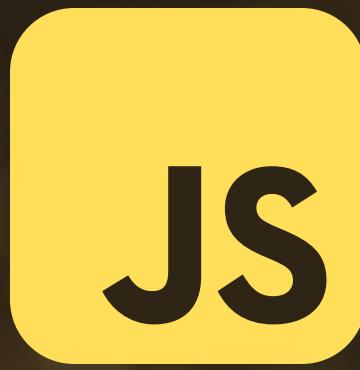


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VARIABLE HOISTING

In JavaScript, the behavior of hoisting varies depending on whether a variable is declared using var, let, or const.

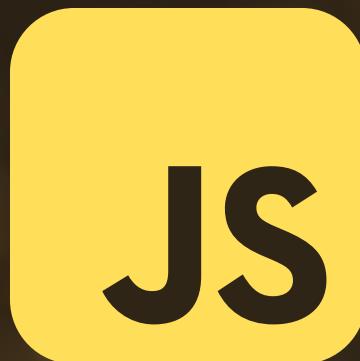


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HOISTING WITH VAR

When we declare a variable using var, it is hoisted to the top of its current scope. For example,

```
// use the message variable before declaration  
console.log(message);
```

```
// variable declaration using var keyword  
var message;
```

// Output: undefined

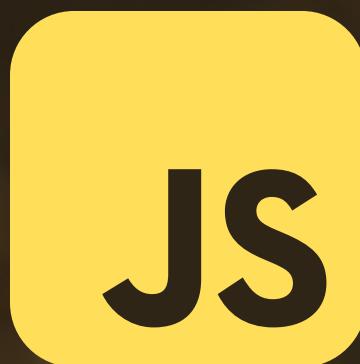
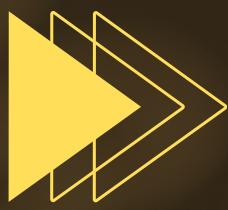


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HOISTING WITH LET AND CONST

When we declare a variable using let or const, it is hoisted to the top of its current scope. However, the variable does not have a default value when it is hoisted (unlike when declared using var).

```
// use the message variable before declaration  
console.log(message);
```

```
// variable declaration using let keyword  
let message;
```

Output:

```
ReferenceError: Cannot access 'message' before initialization
```

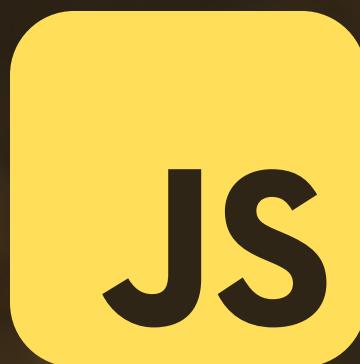
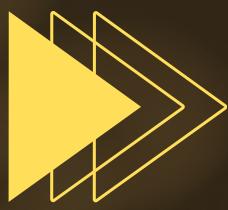


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FUNCTION HOISTING

In JavaScript, function hoisting allows us to call the function before its declaration.

```
// function call  
greeting();  
  
// function declaration  
function greeting() {  
    console.log("Welcome to Programiz.");  
}
```

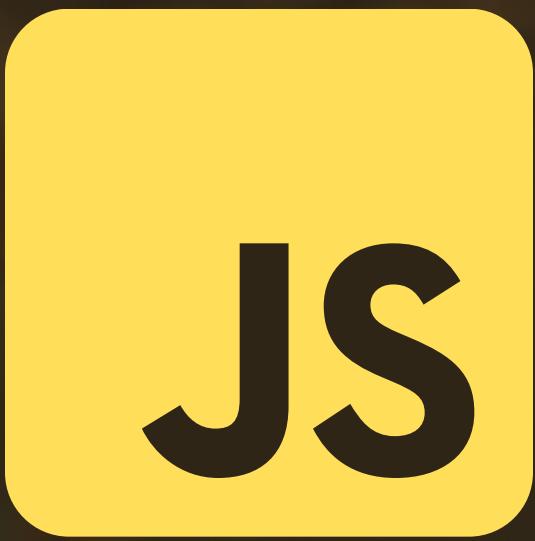
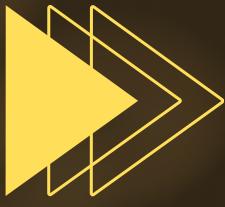


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