

JavaScript

Hoisting

Important ★



Mallikarjun | @CodeBustler



JS Hoisting

Hoisting is a process where **variable & function declarations** are moved to the top of their scope during code execution.

It allows you to use variables and call functions before they are defined in the code. However, **only the declarations are hoisted**, not the assignments/initialization.

Understanding hoisting helps in writing code that works as expected

JS Hoisting (Variables)

Hoisting with let, const & var different



```
console.log(x);  
// undefined
```

```
console.log(y);  
// Error: Cannot access 'y' before initialization
```

```
console.log(z);  
// Error: Cannot access 'z' before initialization
```

```
var x = 10;  
let y = 30;  
const z = 50;
```

The variable will be **undefined** until the line where its **initialized is reached**.

JS Hoisting (Functions)

Function hoisting means that you can **call a function before it is declared** in your code, and it will still work.



```
myFunction(); // CodeBustler

function myFunction() {
  console.log('CodeBustler');
}
```

Function expression & class expression are not allowed



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