

THE COMPLETE JAVASCRIPT COURSE

FROM ZERO TO EXPERT!

SECTION

HOW JAVASCRIPT WORKS BEHIND THE SCENES

LECTURE

VARIABLE ENVIRONMENT: HOISTING AND THE TDZ



HOISTING IN JAVASCRIPT

Hoisting: Makes some types of variables accessible/usable in the code before they are actually declared. "Variables lifted to the top of their scope".



Before execution, code is scanned for variable declarations, and for each variable, a new property is created in the **variable environment object**.





TEMPORAL DEAD ZONE, LET AND CONST

```
const myName = 'Jonas';

if (myName === 'Jonas') {
   console.log(`Jonas is a ${job}`);
   const age = 2037 - 1989;
   console.log(age);
   const job = 'teacher';
   console.log(x);
}
```

TEMPORAL DEAD ZONE FOR job VARIABLE

Different kinds of error messages:

ReferenceError: Cannot access 'job' before initialization
ReferenceError: x is not defined

WHY HOISTING?

- Using functions before actual declaration;
- var hoisting is just a byproduct.

WHY TDZ?

- Makes it easier to avoid and catch errors: accessing variables before declaration is bad practice and should be avoided;
- Makes const variables actually work