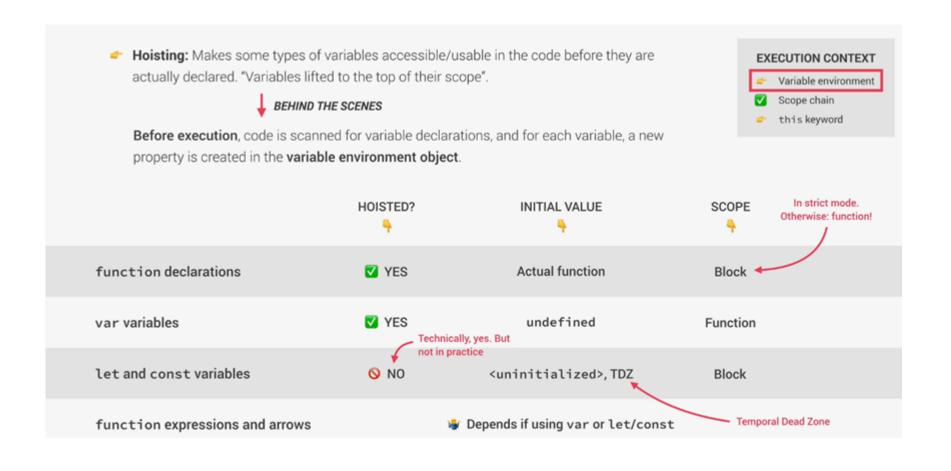


HOISTING



TDZ

```
const myName = 'Jonas';
                                                      TEMPORAL DEAD ZONE FOR job VARIABLE
  if (myName === 'Jonas') {
     console.log(`Jonas is a ${job}`)
                                                     Different kinds of error messages:
     console.log(age);
                                                     ReferenceError: Cannot access 'job' before initialization
     const job = 'teacher';
                                                     ReferenceError: x is not defined
     console.log(x);
           WHY HOISTING?
                                                                        WHY TDZ?
Using functions before actual declaration;
                                                  Makes it easier to avoid and catch errors: accessing variables
                                                     before declaration is bad practice and should be avoided;
                                                  Makes const variables actually work
```

HOSITING PRACTICE



THIS KEYWORD

- this keyword/variable: Special variable that is created for every execution context (every function).
 Takes the value of (points to) the "owner" of the function in which the this keyword is used.
- this is NOT static. It depends on how the function is called, and its value is only assigned when the function is actually called.



```
Method this = <Object that is calling the method>

In strict mode! Otherwise: window (in the browser)

Simple function call this = undefined

Arrow functions this = <this of surrounding function (lexical this)>

Event listener this = <DOM element that the handler is attached to>

new, call, apply, bind < <Later in the course... \(\frac{T}{2}\)>
```

this does NOT point to the function itself, and also NOT the its variable environment!

```
Method example:

const jonas = {
   name: 'Jonas',
   year: 1989,
   calcAge: function() {
    return 2037 - this.year
   }
};
jonas.calcAge(); // 48

calcAge jonas 1989
is method

Way better than using
   jonas.year!
```

THIS KEYWORD PRACTICE



THIS KEYWORD IN NORMAL FUNCTION AND ARROW FUNCTION

```
<script>
var akash = {
  name: 'Akash',
  showTasks: function() {
    var _this = this;
   function display(){
        console.log(_this.name);
    display();
akash.showTasks();
</script>
```

```
var akash = {
  name: 'Akash',
  showTasks: function() {
    const display=()=>{
        console.log(this.name);
   display();
akash.showTasks();
</script>
```