

### Variables

let x = 10;	block scope	most used
const MAX = 100;	constant values	
var y = 10;	global or function scope	old usage

### Operators

let x = 10;	assignment
x == "Hello"	comparison
x === "Hello"	strict comparison
&&	logical AND
	logical OR
!	logical negation

### Data Types

let num = 10;	Number
let str = "Hello";	String
let isTrue = true	Boolean
let arr = [1, 2, 3]	Array
let obj = { a:1, b:2, c:"three" }	Object

### Array

let array = ["a", "b", "c"]	array definition
array.length //3	number of elements in array
array[0] // a	access first element
array[n] //0=<n < array.length	access n <sup>th</sup> element
th	
array[4] // error	4 greater than length of array
array[array.length - 1] // c	access last element

### Comments

// this is a one line comment
/* this is a multiple lines comment also called block comment */

### Object

```
let object = {  
    name: "Alice",  
    age: 30  
}
```

Unlike JSON, a JavaScript object does not have double quotes ("") in the property name

### Object usage

object.name // Alice	dot notation
object["name"] // Alice	property access notation
object.age // 30	
object.gender // undefined	non-existent property

### try...catch...finally

```
try{  
    //code might throw an error  
} catch(err) {  
    console.error("Error occurred",  
    err.message);  
} finally {  
    console.log("Operation completed");  
}
```

try: This block contains code that might throw an exception (an error)

catch: This block handles the exception if an error occurs in the try block

finally: This block always executes, regardless of whether an error occurs or not

### Function

```
function greet() {  
    console.log("Hello")  
}
```

function definition

### Function with parameter

```
function greet(name="Alice") {  
    console.log("Hello")  
}
```

parameter name with default value "Alice"



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