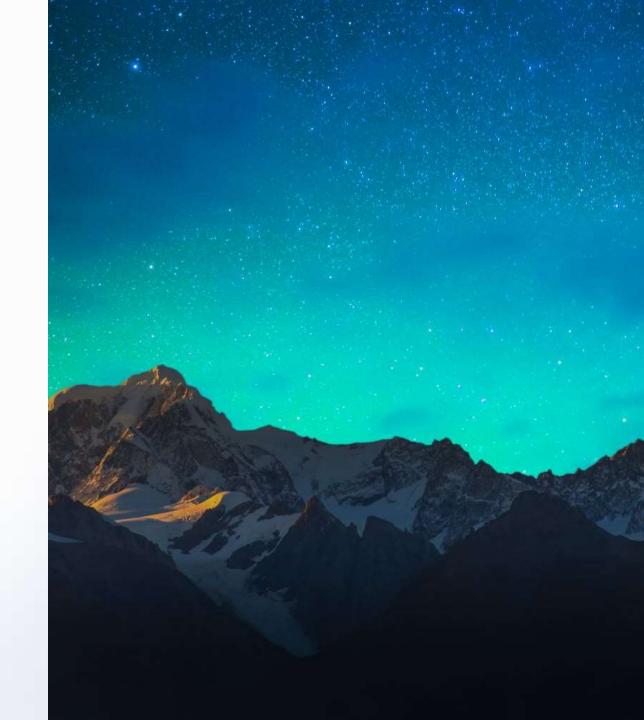


JAVASCRIPT



Destructuring assignment

The **destructuring assignment** syntax is a JavaScript expression that makes it possible to unpack values from arrays, or properties from objects, into distinct variables.

```
1 let a, b, rest;
2 [a, b] = [10, 20];
3
4 console.log(a);
5 // expected output: 10
6
7 console.log(b);
8 // expected output: 20
9 |
10 [a, b, ...rest] = [10, 20, 30, 40, 50];
11
12 console.log(rest);
13 // expected output: Array [30,40,50]
```

```
const obj = { a: 1, b: 2 };
const { a, b } = obj;
// is equivalent to:
// const a = obj.a;
// const b = obj.b;
```



Hoisting in JS

Functions

```
catName("Tiger");

function catName(name) {
  console.log(`My cat's name is ${name}`);
}
```

let and const hoisting

```
console.log(num); // Throws ReferenceError
value is uninitialized
let num = 6; // Initialization
```

var hoisting

```
console.log(num); // Returns 'undefined' from hoisted var declaration
  (not 6)

var num; // Declaration
  num = 6; // Initialization
  console.log(num); // Returns 6 after the line with initialization is executed.
```



JS Scopes

JavaScript has 3 types of scope:

- Block scope
- Function scope
- Global scope

Block Scope

```
{
    let x = 2;
}
// x can NOT be used here
```

```
function myFunction() {
  let carName = "Volvo"; // Function Scope
}
```

Global JavaScript Variables

```
let carName = "Volvo";
// code here can use carName

function myFunction() {
// code here can also use carName
}
```



Browser Storage

Types of browser storage

- Cookies.
- Local storage.
- Session storage.
- •IndexedDB.
- •Web SQL.
- Cache storage.

Local Storage

```
localStorage.setItem('myCat', 'Tom');
```

```
const cat = localStorage.getItem('myCat');
```

```
localStorage.removeItem('myCat');
```

```
localStorage.clear();
```

Session Storage

```
// Save data to sessionStorage
sessionStorage.setItem('key', 'value');
// Get saved data from sessionStorage
let data = sessionStorage.getItem('key');
// Remove saved data from sessionStorage
sessionStorage.removeItem('key');
// Remove all saved data from sessionStorage
sessionStorage.clear();
```



Tasks

https://stujo-tic-tac-toe-stujo-v1.p.rapidapi.com/XXX-----/X

Tic Tac Toe suggestions

https://api.agify.io?name=bella

https://api.genderize.io?name=scott

https://api.nationalize.io?name=michael

Show Currencies on Select list where option value must be a currency code https://api.coinbase.com/v2/currencies.

Google Translate

https://rapidapi.com/googlecloud/api/google-translate1/

