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DESTRUCTURING IN JS

- Array Destructuring
- Object Destructuring

Dmystify JS

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Array Destructuring

The Destructuring assignment syntax is a JavaScript expression that makes it possible to unpack values from arrays, into distinct variables.

```
// Old way to unpack values
const arr = [22, 33, 14];
const a = arr[0];
const b = arr[1];
const c = arr[2];
console.log(a, b, c) // OUTPUT: 22 33 14
```

```
// By Destructuring
const arr = [22, 33, 14];
const [x, y, z] = arr;
console.log(x, y, z); // OUTPUT: 22 33 14
```

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Array Destructuring

We can ignore certain returned values.
Here, 33 and 12 are ignored.

```
// Unpacking only selected values
const arr = [22, 33, 14, 12];
const [first, , third] = arr;
console.log(first) // OUTPUT: 22
console.log(third) // OUTPUT: 14
```

A variable can be assigned a default, in the case that the value unpacked from the array is undefined.

```
// DEFAULT VALUES
const arr = [22, 33, 14, 12];
const [first = 1, , third = 12, , fifth = 78] = arr;
console.log(first) // OUTPUT: 22
console.log(third) // OUTPUT: 14
console.log(fifth) // OUTPUT: 78
```

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Array Destructuring

Unpacking a nested array

```
// NESTED DESTRUCTURE
const nested = [22, 33, [14, 12]];

const [i, j, k] = nested;
console.log(i, j, k);
// OUTPUT: 22 33 [ 14, 12 ]

const [a, b, [c, d]] = nested
console.log(a, b, c, d)
// OUTPUT: 22 33 14 12
```

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Object Destructuring

The Destructuring assignment syntax is a JavaScript expression that makes it possible to unpack properties from objects, into distinct variables.

```
// Old Way
const user = {
    userName: 'Mukul',
    contactNum: 1212313289,
};
const fname = user.userName;
const number = user.contactNum;

console.log(fname, number);
// OUTPUT: Mukul 1212313289
```

```
// New Way
const user = {
    userName: 'Mukul',
    contactNum: 1212313289,
};
const { userName: fname, contactNum: number } = user;

console.log(fname, number);
// OUTPUT: Mukul 1212313289
```

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Object Destructuring

A variable can be assigned a default, in the case that the value unpacked from the object is undefined.

```
// DEFUALT VALUE
const user = {
    contactNum: 1212313289,
};
const {
    userName: fname = "guest",
    contactNum: number = 15325426512
} = user;

console.log(fname, number);
// OUTPUT: guest 1212313289
```

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Object Destructuring

Unpacking nested object

```
// NESTED DESTRUCTURING
const user = {
    userName: "Mukul",
    contactNum: 1212313289,
    address: {
        country: "India",
        state: "Uttar Pradesh"
    }
};
const {
    userName: fname,
    contactNum: number,
    address: { country: userCountry }
} = user;

console.log(fname, number, userCountry);
// OUTPUT: Mukul 1212313289 India
```

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Keep Learning,
Keep Coding