



JavaScript

DESTRUCTURING

What is destructuring?

Destructuring is a feature introduced in ES6 (ES2015) that provides a way to extract values from arrays or properties from objects and bind them to distinct variables.

It allows for more concise and readable code when accessing these values.

Let's break it down...

Array Destructuring

With array destructuring, you can unpack items from arrays directly into variables.

```
const colors = ['red', 'green', 'blue'];  
const [firstColor, secondColor] = colors;  
  
console.log(firstColor); // Outputs: "red"  
console.log(secondColor); // Outputs: "green"
```


Object Destructuring

Object destructuring allows you to extract properties from objects.

```
const profile = {  
  name: 'Codecrumbs',  
  language: 'JavaScript'  
};  
  
const { name, language } = profile;  
  
console.log(name); // Outputs: "Codecrumbs"  
console.log(language); // Outputs: "JavaScript"
```

Nested Destructuring

For objects with nested structures, you can destructure in a layered manner.

```
const student = { name: 'Code', scores: {  
  math: 90, science: 85 } };
```

```
const {  
  name,  
  scores: { math },  
} = student;
```

```
console.log(name); // Outputs: "Code"  
console.log(math); // Outputs: 90
```

Function Parameter Destructuring

This is Especially useful when working with function parameters.

```
//Using the profile const from slide 03

function introduce({ name }) {
  console.log(`My name is ${name}`);
}

introduce(profile); // Outputs: "My name is
Codecrumbs"
```



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