

Array & Object Destructuring

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What MDN says about Destructuring

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

Why is this
necessary?

Let's look to an example.

- Imagine we want extract data from an array. Previously, how would this be done?

```
let introduction = ["Hello", "I", "am", "Sarah"];
let greeting = introduction[0];
let name = introduction[3];

console.log(greeting); // "Hello"
console.log(name); // "Sarah"
```

- Instead of going through that repetitive process, we'd do this:

```
let introduction = ["Hello", "I", "am", "Sarah"];
let [greeting, pronoun] = introduction;

console.log(greeting); // "Hello"
console.log(pronoun); // "I"
```

Destructuring in Arrays

To destructure an array in JavaScript, we use the square brackets [] to store the variable name which will be assigned to the name of the array storing the element.

```
const [var1, var2, ...] = arrayName
```

Let's take a look at it now:

```
const colorArr = ["red", "yellow", "blue", "green", "white", "black"]

const [first, second] = colorArr;
console.log(first, second);

//red, yellow
```

Destructuring in Objects

When destructuring objects, we use curly braces with the exact name of what we have in the object. Unlike in arrays where we can use any variable name to unpack the element, objects allow just the use of the name of the stored data.

```
const freeCodeCamp = {  
    frontend: "React",  
    backend: "Node",  
    database: "MongoDB"  
}  
  
const {frontend, backend} = freeCodeCamp  
console.log(frontend, backend);  
// react, node
```

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