

# What is Destructuring in JavaScript \*

Destructuring is act of unpacking elements in an array or object.

It not only allow you to unpack but also manipulate and switch elements acc to your demand

## Destructuring in Arrays

Eg

\* `const [ var1, var2, ...var3 ] = ["Deepa", "Jyoti", "Devesh", "Ram"]`

Rest operator

`[ "Deepa", "Jyoti", "Devesh",  
"Ram" ]`

`console.log(var1); // 'Deepa'`

`console.log(var2); // 'Jyoti'`

`console.log(var3); // ['Devesh', 'Ram']`

Javascript allows you to use rest operator with ~~an~~ destructuring array to assign the rest of regular array to variable

As you have noticed `["Devesh", "Ram"]` remaining both get stored in Var3

Eg  
 \* const [ , , website ] = ['Google', 'Yahoo', 'Firefox'];

console.log(website); // 'Firefox'

Here we use ',' to skip variables at destructuring array's first and second index positions

## How Default value work in an Array Destructuring Assignment

Eg

const [ firstName = 'Deepa', lastName = 'Chaurasia' ]  
 = ["Deepa Chaurasia"];

console.log(firstName) // Deepa Chaurasia  
 console.log(lastName) // chaurasia.

Here 'Deepa' and 'chaurasia' are default value of 'firstName' and 'lastName' variables.

∴ In our attempt to extract <sup>index</sup> first<sup>value</sup> from right side of array, the computer defaulted to "chaurasia" - becoz .

Only zeroth index value exists in  
 [ "Deepa Chaurasia" ]

# Object destructuring In JavaScript

Object destructuring is unique technique that allows you to neatly extract an object's value to new variables.

```
const profile = {  
    firstName: 'Deepa'  
};
```

Destructing object

```
const { firstName } = profile;
```

This key references  
the profile object's  
firstName key

This value represents  
your new variable.

The destructuring object's key references its profile objects property name.

And destructuring object's value represents your new variable

Date: / /

Eg → const profile = {

  firstName: 'Deepa',

  lastName: 'Chaurasia',

};

const { firstName, lastName } = profile;

console.log(firstName); // 'Deepa'

console.log(lastName); // 'Chaurasia'

How to Use Object Destructuring to Swap Value

let FirstName = 'Deepa';

let LastName = 'Chaurasia';

({ FirstName, LastName } = { FirstName: LastName, LastName: FirstName });

console.log(firstName); // 'Chaurasia'

console.log(lastName); // 'Deepa'