

THE COMPLETE FRONT-END DEVELOPMENT

SECTION

JAVASCRIPT REVIEW

LECTURE

REST/SPREAD OPERATOR

REST/SPREAD OPERATOR WITH ARRAY

REST OPERATOR

👉 we can use it only in the end of destructuring operation.

👉 it will automatically create an array which contains all the values that we haven't previously destructured.

👉 And that's it [var, var2, ...others] = myArray

```
1 //rest operator
2 const movie = getMovie(1);
3 const {titles,director,genres} = movie
4
5 const [primaryGenere , secondaryGenere , ...others] = genres
6
7 others // ['adventure' , 'fiction'...]
8 primaryGenere //fantasy
9 secondaryGenere // high-fantasy
```

REST/SPREAD OPERATOR WITH ARRAY

BEFORE WE START

let's say that we want to create a new array that contain all the genres values, and adding new one in the end :

👉 immediately we see that is **not exactly what we want.**

```
● ● ●  
1 //before spread operator  
2 const movie = getMovie(1);  
3 const {titles,director,genres} = movie  
4  
5 const newGenres = [genres, 'action']  
6  
7 newGenres // [['fantasy','high-fantasy'],...], 'action']
```

REST/SPREAD OPERATOR WITH ARRAY

SPREAD OPERATOR

- 👉 What is bit confusing about this, is the same syntax of the rest operator.
- 👉 We can also used it both on arrays and objects.
- 👉 Spread operator **we use it all the time.**

```
● ● ●  
1 //spread operator  
2 const movie = getMovie(1);  
3 const {titles,director,genres} = movie  
4  
5 const newGenres = [...genres,'action']  
6  
7 newGenres // ['fantasy' , 'high-fantasy' ,..., 'action']
```

REST/SPREAD OPERATOR WITH ARRAY

👉 We can also place it in the end of the array.

👉 Adding new values in the beginning of our new array.

👉 Very helpful all the time.



The screenshot shows a code editor window with a dark theme. At the top, there are three colored circular icons: red, yellow, and green. Below them, the following code is displayed:

```
1 //spread operator
2 const movie = getMovie(1);
3 const {titles,director,genres} = movie
4
5 const newGenres = ['action',...genres]
6
7 newGenres // ['action' , 'fantasy' , 'high-fantasy' ,...]
```

REST/SPREAD OPERATOR WITH OBJECT

BEFORE WE START

let's move on to object where the spread operator is more important, let's say that we need updated movie object that has `bookDatePublication` prop in it.

👉 immediately we see that is **not exactly what we want**.

```
● ● ●  
1 const movie = getMovie(1);  
2 const {titles,director,genres} = movie  
3  
4  
5 const updatedMovie = {movie, bookDatePublication : '2005-10-26'}  
6 updatedMovie // { movie : {all the old prop}, {bookDatePublication : ...} }
```

REST/SPREAD OPERATOR WITH OBJECT

SPREAD OPERATOR

👉 Allows us to add new properties , and also updating existing ones.

👉 Very helpful.

👉 Spread operator we use it all the time.

```
1 //spread operator with objects (Adding new prop)
2 const movie = getMovie(1);
3 const {titles,director,genres} = movie
4
5
6 const updatedMovie = {...movie, bookDatePublication : '2005-10-26'}
7 updatedMovie // {all the old props, bookDatePublication : ...}
```

SEE YOU SOON...