

JS

# REST VS SPREAD OPERATOR



codewithgauri

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# Spread operator:

The **spread** operator helps us expand an iterable such as an array where multiple arguments are needed, it also helps to expand the object expressions. In cases where we require all the elements of an iterable or object to help us achieve a task, we use a spread operator.



//Syntax:


```
var var_name = [...iterable];
```

**Note:** There can be more than one spread operator in javascript functions.



# Rest operator:

The **rest** parameter is converse to the spread operator. while spread operator expands elements of an iterable, rest operator compresses them. It collects several elements. In functions when we require to pass arguments but were not sure how many we have to pass, the rest parameter makes it easier.



```
//Syntax:
```

```
function function_name(...arguments) {  
    statements;  
}
```

**Note:** There must be only one rest operator in javascript functions.



# Conclusion:

The main difference between rest and spread is that the rest operator puts the rest of some specific user-supplied values into a JavaScript array. But the spread syntax expands iterables into individual elements.

- **Rest Parameter** collects all remaining elements into an array.
- **Spread Operator** expands collected elements such as arrays into single elements.
- The spread syntax only does a **shallow copy** one level deep.
- Only the **last parameter** can be a rest parameter.



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