

JAVASCRIPT

ES6 Features-2

Sreekanth M. E.

Freelance Trainer & Consultant

<http://www.SreekanthME.com>

DESTRUCTURING ASSIGNMENT

Destructuring assignment is used to unpack values from arrays and properties from objects into distinct variables.

It can be used in locations that receive data
(such as the left-hand side of an assignment).

Destructuring assigns **undefined** when value is not found.

The **rest syntax** can be used in array and object destructuring.

Rest syntax for object destructuring is still a stage3 proposal (Not yet officially part of JS).

REST PARAMETERS

Rest parameter syntax is used to represent an indefinite number of arguments as an **array**.

Rest parameter must be the last formal parameter.

Rest syntax consists of three dots (...).

If the last named argument of a function is prefixed with ..., it becomes an array

Rest parameters can be destructured, that means that their data can be unpacked into distinct variables.

```
function f(...[a, b, c]) {  
    return a + b + c;  
}
```

SPREAD SYNTAX

Spread operator allows:

- Array expression to be expanded.
- Object expression to be expanded.

Spread syntax for **object literals** is still a stage-4 proposal (Not yet officially part of JS).

Spread operator consists of three dots (...).

The spread operator (...) looks exactly like the rest operator, but is its opposite.

Spread **expands** a single element into its containing elements, while rest collects multiple elements and **condenses** them into a single element.

USING BABEL

Current version of JavaScript is ES7.

Browser vendors are slow to adopt new JS features, thus browser support for even ES6 at the moment is quite poor.

Today, most browsers have good support for only ES5.

Babel is the go-to transpiler for ES6/7.

Transpiling is taking source code written in one language and transforming it into source code of another language.

Using Babel, one can write code in ES6/7 and then transpile it to ES5 and then give it to browsers to execute.

For learning purposes, babel is available in standalone mode which can transpile ES6/7 code in real-time in the browser.

<https://github.com/babel/babel-standalone/releases>

CDN FOR DIRECT BROWSER USAGE:

<https://unpkg.com/babel-standalone@6/babel.min.js>

SCRIPT TYPE FOR BABEL:

text/babel

TRY OUT BABEL ONLINE:

<https://babeljs.io/repl/>

END OF CHAPTER

Several thin, white, parallel lines of varying lengths and orientations are positioned in the bottom right corner of the slide, creating a modern, abstract graphic element.

APPENDIX