

# @babel/plugin-proposal-object-rest-spread

EDIT

## Example

### Rest Properties

JavaScriptCopy

```
let { x, y, ...z } = { x: 1, y: 2, a: 3, b: 4 };
console.log(x); // 1
console.log(y); // 2
console.log(z); // { a: 3, b: 4 }
```

### Spread Properties

JavaScriptCopy

```
let n = { x, y, ...z };
console.log(n); // { x: 1, y: 2, a: 3, b: 4 }
```

## Installation

ShellCopy

```
npm install --save-dev @babel/plugin-proposal-object-rest-spread
```

## Usage

### Via .babelrc (Recommended)

.babelrc

JSONCopy

```
{
  "plugins": [ "@babel/plugin-proposal-object-rest-spread" ]
}
```

### Via CLI

ShellCopy

```
babel --plugins @babel/plugin-proposal-object-rest-spread script.js
```

### Via Node API

JavaScriptCopy

```
require("@babel/core").transform("code", {
  plugins: [ "@babel/plugin-proposal-object-rest-spread" ]
});
```

## Options

By default, this plugin will produce spec compliant code by using Babel's `objectSpread` helper.

### loose

`boolean`, defaults to `false`.

Enabling this option will use Babel's `extends` helper, which is basically the same as `Object.assign` (see `useBuiltIns` below to use it directly).

:warning: Please keep in mind that even if they're almost equivalent, there's an important difference between spread and `Object.assign` : **spread defines new properties, while `Object.assign()` sets them**, so using this mode might produce unexpected results in some cases.

For detailed information please check out [Spread VS. Object.assign](#) and [Assigning VS. defining properties](#).

### useBuiltIns

`boolean`, defaults to `false`.

Enabling this option will use `Object.assign` directly instead of the Babel's `extends` helper.

### Example

.babelrc

JSONCopy

```
{
  "plugins": [
    [ "@babel/plugin-proposal-object-rest-spread", { "loose": true, "useBuiltIns": true } ]
  ]
}
```

### In

JavaScriptCopy

```
z = { x, ...y };
```

### Out

JavaScriptCopy

```
z = Object.assign({ x }, y);
```

You can read more about configuring plugin options [here](#)

## References

- [Proposal: Object Rest/Spread Properties for ECMAScript](#)
- [Spec](#)
- [Spread VS. Object.assign](#)
- [Assigning VS. defining properties](#)

Example

Rest Properties

Spread Properties

Installation

Usage

Via .babelrc (Recommended)

Via CLI

Via Node API

Options

loose

useBuiltIns

References