

ECMAScript 2018

Key	Value
Name	ECMAScript 2018
Short name	ES2018
Was finalized in	June 2018

Feature list

#	Name	Desc
1	MAJOR Rest/Spread properties for objects	similar to rest/spread element for array (ES6)
2	MAJOR Asynchronus iteration	for-await-of
3	Promise.prototype.finally()	always run no matter failed or success
4	Regular Expression improvements	leave it for now, will get back to this in regex section

1. Rest/Spread properties for objects

ES6 / Rest element

```
const [first, second, ...rest] = [1, 2, 3, 4, 5]
// first = 1
// second = 2
// rest = [3, 4, 5]
```

ES6 / Spread element

```
const numberList1 = [1, 2, 3];
const numberList2 = [4, 5, 6];
const mergedList = [...numberList1, ...numberList2, 7, 8, 9];
// [1, 2, 3, 4, 5, 6, 7, 8, 9]
```

ES2018 introduces the same but for objects.

ES2018 / Rest properties

```
const student = {  
  id: 1,  
  name: 'Easy Frontend',  
  isHero: false,  
}  
  
const { id, ...rest } = student;  
// id = 1  
// rest = { name: 'Easy Frontend', isHero: false }
```

ES2018 / Spread properties

```
const alice = {  
  id: 1,  
  name: 'Alice',  
}  
  
const bob = {  
  ...alice,  
  name: 'Bob',  
}
```

Source: <https://flaviocopes.com/es2018/>

2. Asynchronous iteration

Syntax: for-await-of

```

async function fetchData() {
  const studentList = [];
  const pageList = [1, 2, 3, 4];

  for await (const page of pageList) {
    const url = `https://js-post-api.herokuapp.com/api/students?_page=${page}`;

    console.log('-----');
    console.log('Start', new Date().getTime(), url);

    const response = await fetch(url);
    const responseJSON = await response.json();

    studentList.push(responseJSON.data);
    console.log('End', new Date().getTime(), studentList)
  }
}

fetchData();

```

```

-----
Start 1630468515690 https://js-post-api.herokuapp.com/api/students?_page=1

```

```

◀ ▶ Promise {<pending>}

```

```

End 1630468516018 ▶ [Array(10)]

```

```

-----
Start 1630468516019 https://js-post-api.herokuapp.com/api/students?_page=2

```

```

End 1630468516325 ▶ (2) [Array(10), Array(10)]

```

```

-----
Start 1630468516325 https://js-post-api.herokuapp.com/api/students?_page=3

```

```

End 1630468516756 ▶ (3) [Array(10), Array(10), Array(10)]

```

```

-----
Start 1630468516756 https://js-post-api.herokuapp.com/api/students?_page=4

```

```

End 1630468517179 ▶ (4) [Array(10), Array(10), Array(10), Array(10)]

```

3. Promise.prototype.finally()

```
fetch('file.json')
  .then(data => data.json())
  .catch(error => console.error(error))
  .finally(() => console.log('finished'))
```

Tham khảo

- <https://flaviocopes.com/es2018/>
 - <https://exploringjs.com/es2018-es2019/toc.html>
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Khoá học Javascript cho người mới bắt đầu 2021 🎉

- Tác giả: **Hậu Nguyễn** - Founder Easy Frontend
- Khoá học chỉ được published trên Udemy, không thông qua trung gian.
- Khoá học không bán dạng videos upload trên Google Drive hay bất cứ hình thức nào tương tự.
- Khoá học có nhóm discord để hỗ trợ trong quá trình học tập.

☎️ Liên hệ tác giả để được hỗ trợ:

- ✅ Facebook: <https://www.facebook.com/nvhauesmn/>
- ✅ Fanpage: <https://www.facebook.com/learn.easyfrontend>
- ✅ Youtube Channel: <https://www.youtube.com/easyfrontend>