

# 0x00. ES6 Basics

JavaScript Planning (/planning/me)



Weight: 1

Projects (/projects/current)



Project over - took place from Jun 24, 2024 6:00 AM to Jun 25, 2024 6:00 AM



An auto QA review will automatically make corrections (/to\_review)



Evaluation quizzes (/dashboards/my\_current\_evaluation\_quizzes)

**In a nutshell...**

- **Auto QA review:** 40.0/41 mandatory & 4.0/4 optional

- **Altogether: 195.12%**



Curriculums (/dashboards/my\_curriculums)

◦ Mandatory: 97.56%

◦ Optional: 100.0%

◦ Calculation:  $97.56\% + (97.56\% * 100.0\%) == 195.12\%$ 

Concepts (/concepts)



Conference rooms (/dashboards/video\_rooms)

**Concepts**

For this subject, we expect you to look at these concepts:

- JavaScript programming (/concepts/852)
- Software Linter (/concepts/542)



Sandboxes (/user\_containers/current)



Tools (/dashboards/my\_tools)



Video on demand (/dashboards/videos)



Peers (/users/peers)

Discord (<https://discord.com/app>)

## ES6 arrow functions

My Profile (/users/my\_profile)



# Resources

Read or watch:



- ECMAScript 6 - ECMAScript 2015 (/rltoken/NW1dFLFExQ12\_hD8yvkV3A)
- Statements and declarations (/rltoken/sroRUsUvOZV28V99MHDenw)
- Arrow functions (/rltoken/N2WLyppCtkkX3YFFtyUHw)
- Default parameters (/rltoken/kbw9gMO6sdeOKAY23SYVgA)
- Rest Parameters (/rltoken/1rZfCvacuGVk9z1CQIJvYQ)
- Javascript ES6 — Iterables and Iterators (/rltoken/Xu2HqkiKkrN7z1v9DL37fw)



## Learning Objectives

At the end of this project, you are expected to be able to explain to anyone  
QA Reviews I can make/corrections/to review



**without the help of Google:**



- What ES6 is
- New features introduced in ES6
- The difference between a constant and a variable
- Block-scoped variables
- Arrow functions and function parameters default to them
- Rest and spread function parameters
- String templating in ES6
- Object creation and their properties in ES6
- Iterators and for-of loops



Curriculum/dashboards/my\_curriculums)



Concepts/for-of-loops



## Requirements

Conference rooms/dashboards/video\_rooms)



### General

- Servers(/servers)
- All your files will be executed on Ubuntu 18.04 LTS using NodeJS 12.11.x
- Allowed editors: vi, vim, emacs, Visual Studio Code
- All your files should end with a newline
- A README.md file, at the root of the folder of the project, is mandatory
- Your code should use the js extension
- Your code will be tested using the Jest Testing Framework (/rltoken/ECZpKsJ3fm1qRA7IDyhd\_Q)
- Your code will be analyzed using the linter ESLint (/rltoken/Ttd9w5jERwTERJW3DDbVoQ) along with specific rules that we'll provide
- All of your functions must be exported



Tools(/dashboards/my\_tools)



Video on demand(/dashboards/videos)

## Setup



Peers(/users/peers)

### Install NodeJS 12.11.x




in your home directory)  
Discord (https://discord.com/app)

```
curl -sL https://deb.nodesource.com/setup_12.x -o nodesource_setup.sh
sudo bash nodesource_setup.sh
sudo apt install nodejs -y
```




My Profile(/users/my\_profile)

 \$ nodejs -v  
v12.11.1  
\$ npm -v  
6.11.3

 Home(/)

## Install Jest, Babel, and ESLint

 In your project directory, install Jest, Babel and ESLint by using the supplied `package.json` and run `npm install`.

## Configuration files

 Add the files below to your project directory  
QA Reviews I can make(/corrections/to\_review)

### package.json


 Evaluation quizzes(/dashboards/my\_current\_evaluation\_quizzes)  
Click here to show/hide file contents


### babel.config.js

 Curriculums(/dashboards/my\_curriculums)  
Click here to show/hide file contents

### eslintrc.js

Concepts(/concepts)  
Click here to show/hide file contents

 Conference rooms(/dashboards/video\_rooms)  
**Finally...**

 Don't forget to run `npm install` from the terminal of your project folder to install all necessary project dependencies.  
Servers(/servers)


 Sandboxes(/user\_containers/current)

## Tasks

 **Const or let?**  
Video on demand(/dashboards/videos)

mandatory

Score: 100.0% (Checks completed: 100.0%)






 Modify Peers(/users/peers)

- function `taskFirst` to instantiate variables using `const`
- function `taskNext` to instantiate variables using `let`





 Discord(<https://discord.com/app>)





My Profile(/users/my\_profile)

 export function taskFirst() {  
var task = 'I prefer const when I can.';  
(~~return~~) return task;  
}  
  
 export function getLast() {  
return ' is okay';  
}  
  
 My Planning(/planning/me)  
export function taskNext() {  
var combination = 'But sometimes let';  
 comb Projects(/projects/current)  
  
return combination;  
 } QA Reviews I can make(/corrections/to\_review)

Execution example:

 Evaluation quizzes(/dashboards/my\_current\_evaluation\_quizzes)  
bob@dylan:~\$ cat 0-main.js  
import { taskFirst, taskNext } from './0\_constants.js';  
  
 console.log(`\${taskFirst()} \${taskNext()}`);  
Curriculums(/dashboards/my\_curriculums)  
  
bob@dylan:~\$  
 bob@dylan:~\$ npm run dev 0-main.js  
Concepts(/concepts)  
I prefer const when I can. But sometimes let is okay  
bob@dylan:~\$  
  
 Conference rooms(/dashboards/video\_rooms)

#### Repo:


 Servers(/servers)  
• GitHub repository: alx-backend-javascript  
• Directory: 0x00-ES6\_basic  
 • Files and boxes(/user\_containers/current)

 Check status of dashboards my tools  
 ▶ Get my tools  
View results

 1 Block Scope  
Video on demand(/dashboards/videos)

mandatory

Score: 100.0% (Checks completed: 100.0%)

 Given when Peter (/users/peter) put var and hoisting, modify the variables inside the function taskBlock so that the variables aren't overwritten inside the conditional block.

 Discord(<https://discord.com/app>)



My Profile(/users/my\_profile)



```
export default function taskBlock(trueOrFalse) {  
  var task = false;  
  var task2 = true;
```



```
if (trueOrFalse) {  
  var task = true;  
  var task2 = false;  
}
```



My Planning(/planning/me)

```
return [task, task2];
```



Projects(/projects/current)

Execution:



```
QA Reviews I can make(/corrections/to_review)  
bob@dylan:~$ cat 1-main.js  
import taskBlock from './1-block-scoped.js';
```



```
Evaluation quizzes(/dashboards/my_current_evaluation_quizzes)  
console.log(taskBlock(true));  
console.log(taskBlock(false));
```

```
bob@dylan:~$
```

```
bob@dylan:~$ npm run dev 1-main.js
```



Curriculums(/dashboards/my\_curriculums)

```
[ false, true ]  
[ false, true ]
```

```
bob@dylan:~$
```



Concepts(/concepts)



Repo:

Conference rooms(/dashboards/video\_rooms)

- GitHub repository: alx-backend-javascript
- Directory: 0x00-ES6\_basic



Servers(/servers)  
• File servers/server.js



Check sandboxes(/user\_containers/current) results



## Arrow functions

Tools(/dashboards/my\_tools)

mandatory



Score: 100.0% (Checks completed: 100.0%)

Video on demand(/dashboards/videos)

Rewrite the following standard function to use ES6's arrow syntax of the function `add` (it will be an anonymous function after)



```
Peers(/users/peers)  
export default function getNeighborhoodsList() {  
  this.sanFranciscoNeighborhoods = ['SOMA', 'Union Square'];
```



```
const self = https://discord.com/app)
```

```
this.addNeighborhood = function add(newNeighborhood) {  
  self.sanFranciscoNeighborhoods.push(newNeighborhood);  
  return self.sanFranciscoNeighborhoods;  
};
```

```
}
```

My Profile(/users/my\_profile)



Execution:



```
bob@dylan:~$ cat 2-main.js
import getNeighborhoodsList from './2-arrow.js';

const neighborhoodsList = new getNeighborhoodsList();
const res = neighborhoodsList.addNeighborhood('Noe Valley');
console.log(res);

bob@dylan:~$ npm run dev 2-main.js
[ 'SOMA', 'Union Square', 'Noe Valley' ]

bob@dylan:~$
```

**Repo:** QA Reviews I can make(/corrections/to\_review)

- GitHub repository: alx-backend-javascript
- **Diagnosis quizzes**(/dashboards/my\_current\_evaluation\_quizzes)
- File: 2-arrow.js



Check submission



Get a sandbox



View results

### 3. Parameter defaults

mandatory



Concepts(/concepts)

Score: 100.0% (Checks completed: 100.0%)



Conference rooms(/dashboards/video\_rooms)

Condense the internals of the following function to 1 line - without changing the name of each function/variable.



Servers(/servers)

*Hint:* The key here to define default parameter values for the function parameters.



```
export default function getSumOfHoods(initialNumber, expansion1989, expansion2019) {
```

```
  if (expansion1989 === undefined) {
```



```
    expansion1989 = 89;
  }
```



```
  if (expansion2019 === undefined) {
    expansion2019 = 19;
  }
```

```
  return initialNumber + expansion1989 + expansion2019;
```

```
}
```



Peers(/users/peers)

Execution:



Discord(<https://discord.com/app>)



My Profile(/users/my\_profile)

```
bob@dylan:~$ cat 3-main.js
import getSumOfHoods from './3-default-parameter.js';
(
)
console.log(getSumOfHoods(34));
console.log(getSumOfHoods(34, 3));
console.log(getSumOfHoods(34, 3, 4));
bob@dylan:~$
bob@dylan:~$ npm run dev 3-main.js
142 My Planning(/planning/me)
56
41
bob@dylan:~$
```

✓ **Repo:** QA Reviews I can make(/corrections/to\_review)

- ? • GitHub repository: alx-backend-javascript  
• Evaluation quizzes(/dashboards/my\_current\_evaluation\_quizzes)  
• Directory: 0x00-ES6\_basic  
• File: 3-default-parameter.js

🎓 Check submissions(/dashboards/my\_current\_submissions)  
📖 Curriculum (/dashboards/my\_curriculum)  
📝 Assignments (/dashboards/my\_assignments)

## 4. Rest parameter syntax for functions

mandatory

Score: 100.0% (Checks completed: 100.0%)  
💬 Conference rooms(/dashboards/video\_rooms)

Modify the following function to return the number of arguments passed to it using the rest parameter

🔧 syntax Servers(/servers)

```
> }
export default function returnHowManyArguments() {
  Sandboxes(/user_containers/current)
```

🔑 Example: Tools(/dashboards/my\_tools)

```
> returnHowManyArguments("Hello", "Holberton", 2020);
3
> Video on demand(/dashboards/videos)
```

Execution:

```
👤 bob@dylan:~$ cat 4-main.js
import returnHowManyArguments from './4-rest-parameter.js';
🐼 console.log(returnHowManyArguments("one"));
console.log(returnHowManyArguments("one", "two", 3, "4th"));
bob@dylan:~$
bob@dylan:~$ npm run dev 4-main.js
1
4
bob@dylan:~$
```





Repo:



- GitHub repository: alx-backend-javascript
- Directory: 0x00-ES6\_basic
- File: 4-test-parameter.js



Check submission

My Planning(/planning/me)

> Get a sandbox

View results



## 5. The wonders of spread syntax

mandatory



Score: 100.0% (Checks completed: 100.0%)

QA Reviews I can make(/corrections/to\_review)

Using spread syntax, concatenate 2 arrays and each character of a string by modifying the function



below. Your function body should be one line long.

Evaluation quizzes(/dashboards/my\_current\_evaluation\_quizzes)

```
export default function concatArrays(array1, array2, string) {  
}
```



Curriculum (/dashboards/my\_curriculums)

Execution.



bob@dylan:~\$ cat 5-main.js

Concepts(/concepts)

```
import concatArrays from './5-spread-operator.js';
```



```
console.log(concatArrays(['a', 'b'], ['c', 'd'], 'Hello'));
```

Conference rooms(/dashboards/video\_rooms)

bob@dylan:~\$

bob@dylan:~\$ npm run dev 5-main.js



Servers(/servers)

```
'a', 'b', 'c',
```

```
'd', 'H', 'e',
```



```
'l', 'S', 'a', 'n', 'd', 'b', 'o', 'x', 'e', 's']
```

Sandboxes(/user\_containers/current)

bob@dylan:~\$



Tools(/dashboards/my\_tools)



Video on demand(/dashboards/videos)

- GitHub repository: alx-backend-javascript
- Directory: 0x00-ES6\_basic
- File: 5-spread-operator.js



Peers(/users/peers)

Check submission

> Get a sandbox

View results



Discord(<https://discord.com/app>)



## 6. Take advantage of template literals

mandatory

My Profile(/users/my\_profile)



Rewrite the return statement to use a template literal so you can substitute the variables you've defined.

```
(/
export default function getSanFranciscoDescription() {
  const year = 2017;
  const budget = {
    income: '$119,868',
    gdp: '$154.2 billion',
    capita: '$178,479'
  };

  return `As of ${year}, it was the seventh-highest income county in the United States
    / , with a per capita personal income of ' + budget.income + '. As of 20
15, San Francisco
    / ' proper had a GDP of ' + budget.gdp + ', and a GDP per capita of ' + b
udget.capita + '.';
}
```

Execution:

```
bob@dylan:~$ cat 6-main.js
import {getSanFranciscoDescription} from './6-string-interpolation.js';

console.log(getSanFranciscoDescription());

bob@dylan:~$
bob@dylan:~$ npm run dev 6-main.js
As of 2017, it was the seventh-highest income county in the United States, with a
per capita personal income of $119,868. As of 2015, San Francisco proper had a GD
P of $154.2 billion, and a GDP per capita of $178,479.
```

> Sandboxes(/user\_containers/current)

Repo:

- GitHub repository: alx-backend-javascript
- Directory: 0x00-ES6\_basic
- File: 6-string-interpolation.js

Video on demand(/dashboards/videos)

Check submission

Mark submission

> Get a sandbox

View results

7 Object property value shorthand syntax

mandatory

Score: 100.0% (Checks completed: 100.0%)

Discord(<https://discord.com/app>)

Notice how the keys and the variable names are the same?

Modify the following function's `budget` object to simply use the keyname instead.

My Profile(/users/my\_profile)



```
export default function getBudgetObject(income, gdp, capita) {  
  const budget = {  
    (/) income: income,  
    gdp: gdp,  
    capita: capita,  
  }; Home(/)  
  
  return budget;  
}  
My Planning(/planning/me)
```



Execution:

Projects(/projects/current)



```
bob@dylan:~$ cat 7-main.js  
import getBudgetObject from './7-getBudgetObject.js';  
QA Reviews I can make(/corrections/to_review)  
console.log(getBudgetObject(400, 700, 900));
```



bob@dylan:~\$ Evaluation quizzes(/dashboards/my\_current\_evaluation\_quizzes)

```
bob@dylan:~$ npm run dev 7-main.js  
{ income: 400, gdp: 700, capita: 900 }  
bob@dylan:~$
```



Curriculumums(/dashboards/my\_curriculumums)



Repo:

- Concepts(/concepts)
- GitHub repository: alx-backend-javascript
- Directory: 0x00-ES6\_basic
- File: 7-getBudgetObject.js



Conferenserooms(/dashboards/video\_rooms)



Servers(/servers)

Check submission

Get a sandbox

View results



## 8. No need to create empty objects before adding in properties

mandatory

Sandboxes(/user\_containers/current)



Score: 100.0% (Checks completed: 100.0%)

Tools(/dashboards/my\_tools)

Rewrite the `getBudgetForCurrentYear` function to use ES6 computed property names on the `budget`



Video on demand(/dashboards/videos)




Peers(/users/peers)





Discord(<https://discord.com/app>)





My Profile(/users/my\_profile)

 `function getCurrentYear() {  
 const date = new Date();  
 return date.getFullYear();  
}`


 `export default function getBudgetForCurrentYear(income, gdp, capita) {  
 const budget = {};`


  `budget['income-${getCurrentYear()}'] = income;  
 budget['gdp-${getCurrentYear()}'] = gdp;  
 budget['capita-${getCurrentYear()}'] = capita;`


  `Projects(/projects/current)  
 return budget;  
}`


 `QA Reviews I can make(/corrections/to_review)`

Execution:


 `bob@dylan:~$ cat 8-main.js  
import getBudgetForCurrentYear from './8-getBudgetCurrentYear.js';  
  
console.log(getBudgetForCurrentYear(2100, 5200, 1090));`

 `Curriculums(/dashboards/my_curriculums)  
bob@dylan:~$  
bob@dylan:~$ npm run dev 8-main.js`


 `{ 'income-2021': 2100, 'gdp-2021': 5200, 'capita-2021': 1090 }  
Concepts(/concepts)  
bob@dylan:~$`


 `Conference rooms(/dashboards/video_rooms)`


**Repo:**



- GitHub repository: alx-backend-javascript
- Directory: 0x00-ES6\_basic
- File: 8-getBudgetCurrentYear.js


 `Sandboxes(/user_containers/current)`




 `Tools(/dashboards/my_tools)`

## 9. ES6 method properties

mandatory

 `Video on demand(/dashboards/videos)`

Score: 100.0% (Checks completed: 100.0%)

 Rewrite `getFullBudgetObject` to use ES6 method properties in the `fullBudget` object

`Peers(/users/peers)`

 `Discord(https://discord.com/app)`



`My Profile(/users/my_profile)`



```
import getBudgetObject from './7-getBudgetObject.js';

export default function getFullBudgetObject(income, gdp, capita) {
  const budget = getBudgetObject(income, gdp, capita);
  const fullBudget = {
    Home(/),
    getIncomeInDollars: function (income) {
      return `${income}`;
    }, My Planning(/planning/me)
    getIncomeInEuros: function (income) {
      return `${income} euros`;
    }, Projects(/projects/current)
  };

  return QA Reviews(/qa-reviews/get,make(/corrections/to_review)
}
```



Execution: Evaluation quizzes(/dashboards/my\_current\_evaluation\_quizzes)

```
bob@dylan:~$ cat 9 main.js
import getFullBudgetObject from './9-getFullBudget.js';

Curriculumums(/dashboards/my_curriculumums)
const fullBudget = getFullBudgetObject(20, 50, 10);

console.log(fullBudget.getIncomeInDollars(fullBudget.income));
Concepts(/concepts)
console.log(fullBudget.getIncomeInEuros(fullBudget.income));

bob@dylan:~$
Conference rooms(/dashboards/video_rooms)
bob@dylan:~$ npm run dev 9-main.js
$20
20 euros
Servers(/servers)
bob@dylan:~$
```

Sandboxes(/user\_containers/current)

Repo:

- GitHub repository: alx-backend-javascript Tools(/dashboards/my\_tools)
- Directory: 0x00-ES6\_basic
- File: 9-getFullBudget.js

Video on demand(/dashboards/videos)

Check submission

Get a sandbox

View results

10. For...of Loops



Peers(/users/peers)

mandatory


Score: 100.0% (Checks completed: 100.0%)  
Discord(<https://discord.com/app>)

Rewrite the function `appendToEachArrayValue` to use ES6's `for...of` operator. And don't forget that `var` is not ES6-friendly.


My Profile(/users/my\_profile)


 export default function appendToArrayValue(array, appendString) {  
 for (var idx in array) {  
 (/) var value = array[idx];  
 array[idx] = appendString + value;  
 }  
 Home(/)  
 return array;  
}  
 My Planning(/planning/me)

Execution:

 bob@dylan:~\$ cat 10-main.js

```
import appendToArrayValue from './10-loops.js';
```



✓  console.log(appendToArrayValue(['appended', 'fixed', 'displayed'], 'correctly -'));

?  bob@dylan:~\$ bob@dylan:~\$ npm run dev 10-main.js

```
[ 'correctly appended', 'correctly fixed', 'correctly displayed' ]  
bob@dylan:~$
```

 Curriculum (/dashboards/my\_curriculums)

Repo:

-  Concepts(/concepts)
  - GitHub repository: alx-backend-javascript
  - Directory: 0x00-ES6\_basic
-  Conference rooms(/dashboards/video\_rooms)


 Servers(/servers)


> **11. Iterator** Sandboxes(/user\_containers/current)

mandatory

 Score: 100.0% (Checks completed: 100.0%)  
Tools(/dashboards/my\_tools)

Write a function named `createEmployeesObject` that will receive two arguments:

- 
  - departmentName (String)
  - employees (Array of Strings)

 export default function createEmployeesObject(departmentName, employees) {  
 Peers(/users/peers)  
}

 The function should return an object with the following format:

```
{  
  $departmentName: [  
    $employees,  
  ],  
  My Profile(/users/my_profile)  
}
```



Execution:



```
bob@dylan:~$ cat 11-main.js
import createEmployeesObject from './11-createEmployeesObject.js';

console.log(createEmployeesObject("Software", [ "Bob", "Sylvie" ]));
```



```
bob@dylan:~$
bob@dylan:~$ npm run dev 11-main.js
{ Software: [ 'Bob', 'Sylvie' ] }
bob@dylan:~$
```



Projects(/projects/current)

Repo:



QA Reviews I can make(/corrections/to\_review)

- GitHub repository: alx-backend-javascript
- Directory: 0x00-ES6\_basic



- File: 11-createEmployeesObject.js (/evaluation/quizzes/dashboards/my\_current\_evaluation\_quizzes)

Check submission

> Get a sandbox

View results



Curriculums(/dashboards/my\_curriculums)

## 12. Let's create a report object

mandatory



Concepts(/concepts)

Score: 100.0% (Checks completed: 100.0%)



Conference rooms(/dashboards/video\_rooms)

Write a function named `createReportObject` whose parameter, `employeesList`, is the return value of the previous function `createEmployeesObject`.



Servers(/servers)

```
export default function createReportObject(employeesList) {

}
```



Sandboxes(/user\_containers/current)

`createReportObject` should return an object containing the key `allEmployees` and a method property called `getNumberOfDepartments`.



Tools(/dashboards/my\_tools)

`allEmployees` is a key that maps to an object containing the department name and a list of all the employees in that department. If you're having trouble, use the spread syntax.



Video on demand(/dashboards/videos)

The method property receives `employeesList` and returns the number of departments. I would suggest thinking back to the ES6 method property syntax.



Peers(/users/peers)

```
allEmployees: {
  engineering: [
    'John Doe',
    'Guillaume Salva',
  ],
},
};
```



Discord(<https://discord.com/app>)



Execution My Profile(/users/my\_profile)

```

bob@dylan:~$ cat 12-main.js
import createEmployeesObject from './11-createEmployeesObject.js';
import createReportObject from './12-createReportObject.js';

const employees = {
  ...createEmployeesObject('engineering', ['Bob', 'Jane']),
  ...createEmployeesObject('marketing', ['Sylvie'])
};

const report = createReportObject(employees);
console.log(report.allEmployees);
console.log(Object.keys(report.allEmployees));

bob@dylan:~$
bob@dylan:~/src$ npm run make -- --corrections --to_review
{ engineering: [ 'Bob', 'Jane' ], marketing: [ 'Sylvie' ] }
2
bob@dylan:~$ npm run evaluation -- --quizzes

```

#### Repo:

- Curriculum: `/dashboards/my_curriculums`
- GitHub repository: `alx-backend-javascript`
- Directory: `0x00-ES6_basic`
- File: `12-projects/createReportObject.js`

Check score: `0x00-ES6_basic` `0x00-ES6_basic` `0x00-ES6_basic`

### 13. Iterating through report objects

#advanced

Servers(/servers)

Score: 100.0% (Checks completed: 100.0%)

Sandboxes(/user\_containers/current)

Write a function named `createIteratorObject`, that will take into argument a report Object created with the previous function `createReportObject`.

This function will return an iterator to go through every employee in every department.

```

export default function createIteratorObject(report) {
}

```

Execution: `Peers(/users/peers)`

Discord(<https://discord.com/app>)



My Profile(/users/my\_profile)

```

bob@dylan:~$ cat 100-main.js
import createIteratorObject from './100-createIteratorObject.js';
import createEmployeesObject from './11-createEmployeesObject.js';
import createReportObject from './12-createReportObject.js';

const employees = {
  ...createEmployeesObject('engineering', ['Bob', 'Jane']),
  ...createEmployeesObject('marketing', ['Sylvie'])
};

const report = createReportObject(employees);

const reportWithIterator = createIteratorObject(report);
for (const item of reportWithIterator) {
  console.log(item);
}

bob@dylan:~$
bob@dylan:~$ npm run dev 100-main.js
Bob
Jane
Sylvie

```

**Repo:** Conference rooms(/dashboards/video\_rooms)

- GitHub repository: alx-backend-javascript
- Directory: 0x00-ES6\_basic
- File: 100-createIteratorObject.js

**Sandboxes(/user\_containers/current)**

Check submission   Get a sandbox   View results

## 14. Iterate through object

#advanced

**Score: 100.00%** (0 checks passed, 100.00%)

Finally, write a function named `iterateThroughObject`. The function's parameter `reportWithIterator` is the return value from `createIteratorObject`.

```

export default function iterateThroughObject(reportWithIterator) {
  // ...
}

```

It should return every employee name in a string, separated by |

My Profile(/users/my\_profile)



```

{
  allEmployees: {
    (/) engineering: [
      'John Doe',
      'Guillaume Salva',
    ],
    Home(/)
  },
  ...
};
My Planning(/planning/me)

```

Should return John Doe | Guillaume Salva  
 Projects(/projects/current)  
 Reminder - the functions will be *imported* by the test suite.

Full example:  
 QA Reviews I can make(/corrections/to\_review)

```

> employees = {
  createEmployeesObject('engineering', engineering),
  Evaluation quizzes(/dashboards/my_current_evaluation_quizzes)
  ...createEmployeesObject('design', design),
};

>
> const report = createReportObject(employees);
> const reportWithIterator = createIteratorObject(report);
> iterateThroughObject(reportWithIterator)
'John Doe | Guillaume Salva | Kanye East | Jay Li'
> Concepts(/concepts)

```

Execution:

```

Conference rooms(/dashboards/video_rooms)
bob@dylan:~$ cat 101-main.js
import createEmployeesObject from './11-createEmployeesObject.js';
import createReportObject from './12-createReportObject.js';
import createIteratorObject from './100-createIteratorObject.js';
import iterateThroughObject from './101-iterateThroughObject.js';

> Sandboxes(/user_containers/current)

const employees = {
  Tools(dashboards/my_tools)
  ...createEmployeesObject('engineering', ['Bob', 'Jane']),
  ...createEmployeesObject('marketing', ['Sylvie'])
};

Video on demand(/dashboards/videos)
const report = createReportObject(employees);
const reportWithIterator = createIteratorObject(report);

console.log(iterateThroughObject(reportWithIterator));
Peers(/users/peers)


bob@dylan:~$
bob@dylan:~$ npm run dev 101-main.js
Bob | Jane | Sylvie
bob@dylan:~$


```

Repo:


- My Profile(/users/my\_profile)  
 • GitHub repository: atx-backend-javascript


- Directory: 0x00-ES6\_basic
  - File: 101-iterateThroughObject.js
- (/)


 Check submission  
Home(/)


 Get a sandbox

View results

 My Planning(/planning/me)


 Projects(/projects/current)

 QA Reviews I can make(/corrections/to\_review)


 Evaluation quizzes(/dashboards/my\_current\_evaluation\_quizzes)


 Curriculums(/dashboards/my\_curriculums)


 Concepts(/concepts)


 Conference rooms(/dashboards/video\_rooms)

 Servers(/servers)

 Sandboxes(/user\_containers/current)

 Tools(/dashboards/my\_tools)

 Video on demand(/dashboards/videos)

 Peers(/users/peers)

 Discord(https://discord.com/app)



My Profile(/users/my\_profile)

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