Les fonctions

Création standard

```
function createUser(name, age, man) {
  return {
    name, age, man,
    role: 'ANONYME',
    sayHello() {
      console.log(`Salut, je m'appelle ${this.name}.`);
const user = createUser('André', 35, true)
user.sayHello(); // Salut, je m'appelle André.
```

Isolation de fonction

```
(function createUser(name, age, man) {
  return {
   name, age, man,
    role: 'ANONYME',
   sayHello() {
      console.log(`Salut, je m'appelle ${this.name}.`);
const user = createUser('André', 35, true) // createUser is not defined
```

Principe de la programmation modulaire

```
(function createUser(name, age, man) {
  return {
    name, age, man,
    role: 'ANONYME',
    sayHello() {
      console.log(`Salut, je m'appelle ${this.name}.`);
})('André', 35, true).sayHello(); // Salut, je m'appelle André.
```

Module: privé / public

```
const PersonModule = (function (name, age, isMan) {
 age = age | | 0;
 const role = 'ROLE_ANONYME';
 const sayHello = function() {
   console.log(`Salut, je m'appelle ${this.name}.`);
 return { name, age, role, sayHello }; // isMan n'est pas retourné
})('André', 35, true); // Default values
PersonModule.sayHello();
console.log(PersonModule.isMan); // undefined car 'isMan' est privé !
```

(Exercice après démo)

arborescence

```
index.html
```

```
y js

Js main.js

Js users.js

node_modules

index.html

index.js

package-lock.json

package.json

y js

package.json
```

index.js

```
1 requirejs.config({
2 baseUrl: 'js'
3 });
4
5 requirejs(['main']);
```

(Exercice après démo)

js/users.js

```
define('Users', function() {
       const all =
3
         { name: 'coco', age: 12 },
         { name: 'jaco', age: 54 },
4
         { name: 'pedro', age: 22 },
         { name: 'franco', age: 20 },
6
       ];
8
       return { all };
9
10
```

(Exercice après démo)

js/main.js

```
1 ∨ requirejs(['Users'], function(u) {
       const usersTag = document.querySelector('.users');
2
3
       let html = '';
4
       for (let { name, age } of u.all) {
5
         html += `<div>${name} a ${age} ans.</div>`
 6
7
8
9
       usersTag.innerHTML = html;
10
```

(Exercice supplémentaire: master/details)

index.html

```
<title>TITLE</title>
         <script data-main="main" src="/node_modules/</pre>
         requirejs/require.js"></script>
 8
         <style>
           .users > div {
10
             cursor: pointer;
11
12
         </style>
13
       </head>
14
15
       <body>
16
17
         <h1>Liste des utilisateurs</h1>
18
19
         <!-- MASTER -->
20
         <div class="users"></div>
21
22
         <!-- DETAILS -->
23
         <div class="details"></div>
```

(Exercice supplémentaire: master/details)

js/main.js

```
1 requirejs.config({
2 baseUrl: 'js'
3 });
4
5 requirejs(['app']); // js/app.js
```

(Exercice supplémentaire: master/details)

js/users.js

```
define('Users', function() {
2
      const users =
         { id: '31b64b10-886b-11ea-afbc-bff473fb98fd', name: 'coco', age: 12 },
         { id: '33153ed0-886b-11ea-afbc-bff473fb98fd', name: 'jaco', age: 54 },
5
         { id: '344f6c80-886b-11ea-afbc-bff473fb98fd', name: 'pedro', age: 22 },
6
         { id: '35637490-886b-11ea-afbc-bff473fb98fd', name: 'franco', age: 20 },
      1;
8
9
      const findAll = function() {
10
         return users;
11
12
13
      const findOne = function(id) {
14
         const index = users.findIndex(user => user.id === id );
15
         return users[index];
16
      }
17
18
      return {
19
         findOne,
20
         findAll
21
      };
     });
```

(Exercice supplémentaire: master/details)

js/app.js

```
requirejs(['Users'], function(users) {
       const usersTag = document.querySelector('.users');
 2
       let html = '';
 4
 5
       for (let user of users.findAll()) {
 6
         html += `<div data-id="${user.id}">${user.name}</div>`;
 7
 8
 9
       usersTag.innerHTML = html;
10
       document
11
12
         .querySelectorAll('.users > div')
13
         .forEach(function(userTag) {
           userTag.addEventListener('mouseenter', function() {
14
             const user = users.findOne(userTag.dataset.id);
15
16
             document
17
               .querySelector('.details')
18
               .textContent = `${user.name} a ${user.age} ans.`;
           })
19
20
21
     });
```

FIN