Current Skill Spreading

Problem of copying objects (references)

Let's say we have two arrays and we want to **merge** the values of the first array with the second one.

Doing this in the traditional way requires **a for loop** and pushing all the **elements of the two arrays to a new array**.

*Note : Please notice that we can also use **concat**.*

ES6 introduced a more natural approach using the **spreading operator** that does the same thing.

```
let array1 = [1,2,3];
let array2 = [4,5,6];
// Using ES5
array1 = array1.concat(array2);
console.log(array1)//  [1,2,3,4,5,6,4,5,6]
// Using ES6
array1 = [...array1, ...array2];
console.log(array1)//  [1,2,3,4,5,6,4,5,6]
```

Creating two copies of an object:

The **spreading operator** makes a huge difference when it comes to dealing with objects. Copying properties from an object to another used to be trickier with the **Object.assign()** function (which is a bit hard to work with).

Just like arrays, we add the spreading operator before the object, in this case we are spreading the first and the second object like this:

```
let object1 = { firstName: 'John', lastName: 'Brown' }
let object2 = { age: 25 }

let newObject1 = { ...object1, ...object2 }
console.log(newObject1)
```

```
/* {
firstName:"John",
lastName:"Brown",
age:25
}*/
```

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