

JS Swift <python3shah@gmail.com>

Reference vs Value in JavaScript

1 message

Adrian From JavaScript Mastery <contact@thejavascriptmastery.com> To: Teen <python3shah@gmail.com>

21 November 2020 at 03:57

Hello Teen,

today I have prepared for you some advanced JavaScript content!

In this simple e-mail, you're going to learn the concept of **Reference vs** Value in JavaScript.

Let's start of with how we copy primitive values:

```
let firstPerson = 'Mark';
let secondPerson = firstPerson;
firstPerson = 'Austin';
console log(firstPerson); // Austin
console log(secondPerson); // Mark
```

Primitive Values are copied by value 😭

As you can see, the output makes sense, only firstPerson changed.

Now, let's take a look at how we copy complex values:

```
const animals = [ 'dogs', 'cats' ];
const otherAnimals = animals:
animals.push('llamas');
console.log(animals); // [ 'dogs', 'cats', 'llamas' ]
console.log(otherAnimals); // [ 'dogs', 'cats', 'llamas' ]
```

Complex Values are copied by reference 😭

Why are both arrays the same if we only pushed the value to the first ray! Wind happened here!

When a variable is assigned a primitive value, it just copies that value. We saw that with number and strings examples. On the other hand, when a variable is assigned a non-primitive value (such as an object or an array), it is given a reference to that object's location in memory. In our example, that means that we're never actually making a copy of a animals array. We're just make a variable that points to the same location in the memory.

So now do we make a "normal" copy?

To clone an array or an object without making a reference to the original, use the spread operator.

```
const numbers = [1, 2, 3, 4, 5];
const newNumbers = [ ...numbers ];
```

To clone an array, use the spread operator 🐦



v's email! The content for this lesson was in the Complete ath to JavaScript Mastery Course. You an expect some insole discounts for next week's Black Friday, stay tuned!

to receive any black frider anscount e-mails, click here.

ved it, mark this e-mail as important so you ca Thanks for in the future

If you udn't enjoy the mail you can unsu