



JavaScript Array Const

[< Previous](#)[Next >](#)

ECMAScript 2015 (ES6)

In 2015, JavaScript introduced an important new keyword: `const` .

It has become a common practice to declare arrays using `const` :

Example

```
const cars = ["Saab", "Volvo", "BMW"];
```

[Try it Yourself »](#)

Cannot be Reassigned

An array declared with `const` cannot be reassigned:

Example

```
const cars = ["Saab", "Volvo", "BMW"];  
cars = ["Toyota", "Volvo", "Audi"]; // ERROR
```

[Try it Yourself »](#)

Arrays are Not Constants

The keyword `const` is a little misleading.

It does NOT define a constant array. It defines a constant reference to an array.

Because of this, we can still change the elements of a constant array.

Elements Can be Reassigned

You can change the elements of a constant array:

Example

```
// You can create a constant array:  
const cars = ["Saab", "Volvo", "BMW"];  
  
// You can change an element:  
cars[0] = "Toyota";  
  
// You can add an element:  
cars.push("Audi");
```

[Try it Yourself »](#)

Browser Support

The `const` keyword is not supported in Internet Explorer 10 or earlier.

The following table defines the first browser versions with full support for the `const` keyword:

--

Chrome 49	IE 11 / Edge	Firefox 36	Safari 10	Opera 36
Mar, 2016	Oct, 2013	Feb, 2015	Sep, 2016	Mar, 2016

Assigned when Declared

JavaScript **const** variables must be assigned a value when they are declared:

Meaning: An array declared with **const** must be initialized when it is declared.

Using **const** without initializing the array is a syntax error:

Example

This will not work:

```
const cars;  
cars = ["Saab", "Volvo", "BMW"];
```

Arrays declared with **var** can be initialized at any time.

You can even use the array before it is declared:

Example

This is OK:

```
cars = ["Saab", "Volvo", "BMW"];  
var cars;
```

[Try it Yourself »](#)

Const Block Scope

An array declared with **const** has **Block Scope**.

An array declared in a block is not the same as an array declared outside the block:

Example

```
const cars = ["Saab", "Volvo", "BMW"];  
// Here cars[0] is "Saab"  
{  
  const cars = ["Toyota", "Volvo", "BMW"];  
  // Here cars[0] is "Toyota"  
}  
// Here cars[0] is "Saab"
```

Try it Yourself »

An array declared with **var** does not have block scope:

Example

```
var cars = ["Saab", "Volvo", "BMW"];  
// Here cars[0] is "Saab"  
{  
  var cars = ["Toyota", "Volvo", "BMW"];  
  // Here cars[0] is "Toyota"  
}  
// Here cars[0] is "Toyota"
```

Try it Yourself »

You can learn more about Block Scope in the chapter: [JavaScript Scope](#).

Redeclaring Arrays

Redeclaring an array declared with **var** is allowed anywhere in a program:

Example

```
var cars = ["Volvo", "BMW"]; // Allowed
var cars = ["Toyota", "BMW"]; // Allowed
cars = ["Volvo", "Saab"]; // Allowed
```

Redeclaring or reassigning an array to **const** , in the same scope, or in the same block, is not allowed:

Example

```
var cars = ["Volvo", "BMW"]; // Allowed
const cars = ["Volvo", "BMW"]; // Not allowed
{
  var cars = ["Volvo", "BMW"]; // Allowed
  const cars = ["Volvo", "BMW"]; // Not allowed
}
```

Redeclaring or reassigning an existing **const** array, in the same scope, or in the same block, is not allowed:

Example

```
const cars = ["Volvo", "BMW"]; // Allowed
const cars = ["Volvo", "BMW"]; // Not allowed
var cars = ["Volvo", "BMW"]; // Not allowed
cars = ["Volvo", "BMW"]; // Not allowed

{
  const cars = ["Volvo", "BMW"]; // Allowed
  const cars = ["Volvo", "BMW"]; // Not allowed
  var cars = ["Volvo", "BMW"]; // Not allowed
  cars = ["Volvo", "BMW"]; // Not allowed
}
```

Redeclaring an array with **const** , in another scope, or in another block, is allowed:

Example

```
const cars = ["Volvo", "BMW"]; // Allowed
{
  const cars = ["Volvo", "BMW"]; // Allowed
}
{
  const cars = ["Volvo", "BMW"]; // Allowed
}
```

Complete Array Reference

For a complete Array reference, go to our:

[Complete JavaScript Array Reference.](#)

The reference contains descriptions and examples of all Array properties and methods.

[< Previous](#)[Next >](#)

COLOR PICKER