

# Array.prototype.push()

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The **push()** method adds one or more elements to the end of an array and returns the new length of the array.

## Syntax

```
arr.push(element1, ..., elementN)
```

## Parameters

**elementN**

The elements to add to the end of the array.

## Returns

The new **length** property of the object upon which the method was called.

## Description

The **push** method appends values to an array.

**push** is intentionally generic. This method can be used with **call()** or **apply()** on objects resembling arrays. The **push** method relies on a **length** property to determine where to start inserting the given values. If the **length** property cannot be converted into a number, the index used is 0. This includes the possibility of **length** being nonexistent, in which case **length** will also be created.

The only native, array-like objects are **strings**, although they are not suitable in applications of this method, as strings are immutable.

## Examples

### Adding elements to an array

The following code creates the **sports** array containing two elements, then appends two elements to it. The **total** variable contains the new length of the array.

```
1 | var sports = ['soccer', 'baseball'];
2 | var total = sports.push('football', 'swimming');
3 |
4 | console.log(sports); // ['soccer', 'baseball', 'football', 'swimming']
5 | console.log(total);  // 4
```

### Merging two arrays

This example uses **apply()** to push all elements from a second array.

```
1 | var vegetables = ['parsnip', 'potato'];
2 | var moreVegs = ['celery', 'beetroot'];
3 |
4 | // Merge the second array into the first one
5 | // Equivalent to vegetables.push('celery', 'beetroot');
6 | Array.prototype.push.apply(vegetables, moreVegs);
7 |
8 | console.log(vegetables); // ['parsnip', 'potato', 'celery', 'beetroot']
```

## Specifications

Specification	Status	Comment

<a href="#">↗ ECMAScript 3rd Edition (ECMA-262)</a>	<div><div></div><div>ST</div></div> Standard	Initial definition. Implemented in JavaScript 1.2.
<a href="#">↗ ECMAScript 5.1 (ECMA-262)</a> The definition of 'Array.prototype.push' in that specification.	<div><div></div><div>ST</div></div> Standard	
<a href="#">↗ ECMAScript 2015 (6th Edition, ECMA-262)</a> The definition of 'Array.prototype.push' in that specification.	<div><div></div><div>ST</div></div> Standard	

# Browser compatibility

	Desktop	Mobile				
Feature	Chrome	Firefox (Gecko)	Internet Explorer	Opera	Safari	
Basic support	1.0	1.0 (1.7 or earlier)	5.5	(Yes)	(Yes)	

## See also

- `Array.prototype.pop()`
- `Array.prototype.shift()`
- `Array.prototype.unshift()`
- `Array.prototype.concat()`