

in operator

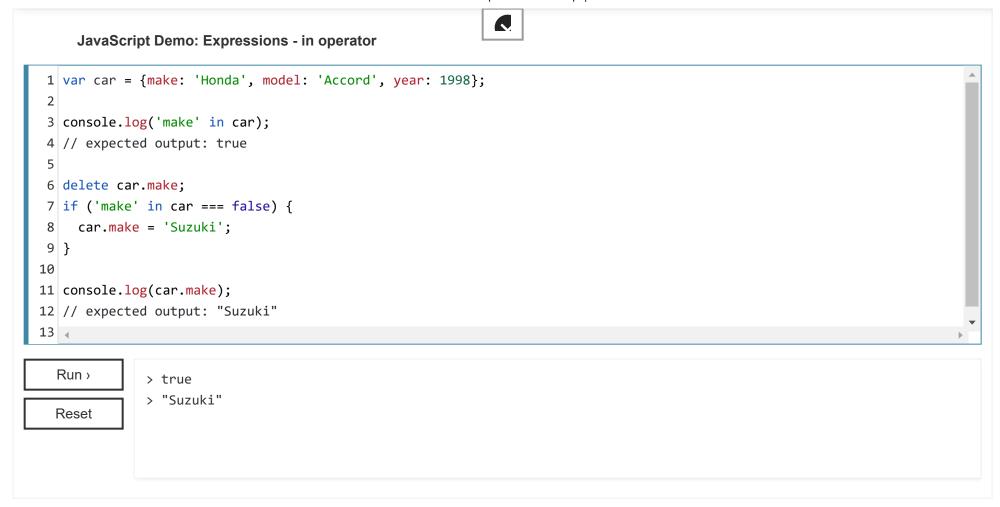
The **in operator** returns true if the specified property is in the specified object or its prototype chain.

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Parameters &



prop

A string or symbol representing a property name or array index (non-symbols will be coerced to strings).

object

Object to check if it (or its prototype chain) contains the property with specified name.

Description §

The following examples show some uses of the in operator.

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```
var mycar = {make: 'Honda', model: 'Accord', y|
14
                                                          11998};
15
     'make' in mycar // returns true
     'model' in mycar // returns true
16
```

You must specify an object on the right side of the in operator. For example, you can specify a string created with the String constructor, but you cannot specify a string literal.

```
var color1 = new String('green');
1
    'length' in color1 // returns true
3
   var color2 = 'coral';
4
   // generates an error (color2 is not a String object)
5
    'length' in color2
```

Using in with deleted or undefined properties •



If you delete a property with the delete operator, the in operator returns false for that property.

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```
delete trees[3];
   3 in trees; // returns false
7
```



If you set a property to undefined but do not delete it, the in operator returns true for that property.

```
var mycar = {make: 'Honda', model: 'Accord', year: 1998};
1
   mycar.make = undefined;
2
    'make' in mycar; // returns true
   var trees = new Array('redwood', 'bay', 'cedar', 'oak', 'maple');
1
   trees[3] = undefined;
2
   3 in trees; // returns true
```

Inherited properties §



The in operator returns true for properties in the prototype chain.

```
'toString' in {}; // returns true
```

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ECMAScript Latest Draft (ECMA-262) The definition of 'Relational Operators' in that specification.	D .	
ECMAScript 2015 (6th Edition, ECMA-262) The definition of 'Relational Operators' in that specification.	ST Standard	
ECMAScript 5.1 (ECMA-262) The definition of 'The in Operator' in that specification.	ST Standard	
ECMAScript 3rd Edition (ECMA-262) The definition of 'The in Operator' in that specification.	ST Standard Initial def	inition. Implemented in JavaScript 1.4.

Browser compatibility §

Update compatibility data on GitHub

in

Chrome	Yes
Edae	Yes

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Chrome Android	Yes	
Firefox Android	4	
Opera Android	Yes	
Safari iOS	Yes	
Samsung Internet Android	Yes	
nodejs	Yes	

..

Full support

See also \mathcal{O}

- for...in
- delete
- Object.prototype.hasOwnProperty()

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