Object.keys()

```
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```

The **Object.keys()** method returns an array of a given object's own enumerable properties, in the same order as that provided by a **for...in** loop (the difference being that a for-in loop enumerates properties in the prototype chain as well).

Syntax

```
Object.keys(obj)
```

Parameters

obi

The object whose enumerable own properties are to be returned.

Description

Object.keys() returns an array whose elements are strings corresponding to the enumerable properties found directly upon object. The ordering of the properties is the same as that given by looping over the properties of the object manually.

Examples

```
var arr = ['a', 'b', 'c'];
1
    console.log(Object.keys(arr)); // console: ['0', '1', '2']
2
3
    // array like object
4
    var obj = { 0: 'a', 1: 'b', 2: 'c' };
    console.log(Object.keys(obj)); // console: ['0', '1', '2']
6
7
    // array like object with random key ordering
9
    var an_obj = { 100: 'a', 2: 'b', 7: 'c' };
    console.log(Object.keys(an_obj)); // console: ['2', '7', '100']
10
11
12
    // getFoo is property which isn't enumerable
    var my_obj = Object.create({}, { getFoo: { value: function() { return this.foo; } } });
13
14
    my_obj.foo = 1;
15
    console.log(Object.keys(my_obj)); // console: ['foo']
16
```

If you want all properties, even not enumerables, see Object.getOwnPropertyNames().

Notes

In ES5, if the argument to this method is not an object (a primitive), then it will cause a TypeError. In ES6, a non-object argument will be coerced to an object.

Polyfill

To add compatible Object.keys support in older environments that do not natively support it, copy the following snippet:

```
2
    if (!Object.keys) {
3
      Object.keys = (function() {
4
         'use strict';
5
        var hasOwnProperty = Object.prototype.hasOwnProperty,
             hasDontEnumBug = !({ toString: null }).propertyIsEnumerable('toString'),
6
7
             dontEnums = \Gamma
8
               'toString',
9
               'toLocaleString',
10
               'valueOf',
11
               'hasOwnProperty',
               'isPrototypeOf',
12
13
               'propertyIsEnumerable',
               'constructor'
14
15
            ],
             dontEnumsLength = dontEnums.length;
16
17
        return function(obj) {
18
          if (typeof obj !== 'object' && (typeof obj !== 'function' || obj === null)) {
19
20
             throw new TypeError('Object.keys called on non-object');
21
          }
22
23
          var result = [], prop, i;
24
25
          for (prop in obj) {
26
             if (hasOwnProperty.call(obj, prop)) {
               result.push(prop);
27
28
29
          }
30
          if (hasDontEnumBug) {
31
             for (i = 0; i < dontEnumsLength; i++) {</pre>
32
               if (hasOwnProperty.call(obj, dontEnums[i])) {
33
                 result.push(dontEnums[i]);
34
35
               }
36
             }
37
38
          return result;
39
        };
40
      }());
41
   }
```

Please note that the above code includes non-enumerable keys in IE7 (and maybe IE8), when passing in an object from a different window.

For a simple Browser Polyfill, see 🗷 Javascript - Object.keys Browser Compatibility.

Specifications

Specification		JS	Comment	
☑ ECMAScript 5.1 (ECMA-262) The definition of 'Object.keys' in that specification.	ST	Standard	Initial definition. Implemented in JavaScript 1.8.5.	
☑ ECMAScript 2015 (6th Edition, ECMA-262) The definition of 'Object.keys' in that specification.	ST	Standard		

Browser compatibility

Desktop	Mobile	e			
Feature	Chrome	Firefox (Gecko)	Internet Explorer	Opera	Safari
Basic support	5	4.0 (2.0)	9	12	5

See also

- Enumerability and ownership of properties
- Object.prototype.propertyIsEnumerable()
- Object.create()

