

Array.prototype.find()



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The `find()` method of [Array](#) instances returns the first element in the provided array that satisfies the provided testing function. If no values satisfy the testing function, [undefined](#) is returned.

- If you need the **index** of the found element in the array, use [findIndex\(\)](#).
- If you need to find the **index of a value**, use [indexOf\(\)](#). (It's similar to [findIndex\(\)](#), but checks each element for equality with the value instead of using a testing function.)
- If you need to find if a value **exists** in an array, use [includes\(\)](#). Again, it checks each element for equality with the value instead of using a testing function.
- If you need to find if any element satisfies the provided testing function, use [some\(\)](#).
- If you need to find all elements that satisfy the provided testing function, use [filter\(\)](#).

Try it

JavaScript Demo: Array.prototype.find()

```
1 const array1 = [5, 12, 8, 130, 44];
2
3 const found = array1.find((element) => element > 10);
4
5 console.log(found);
6 // Expected output: 12
7
```

Run

Reset

Syntax

JS



```
find(callbackFn)
find(callbackFn, thisArg)
```

Parameters

callbackFn

A function to execute for each element in the array. It should return a [truthy](#) value to indicate a matching element has been found, and a [falsy](#) value otherwise. The function is called with the following arguments:

element

The current element being processed in the array.

index

The index of the current element being processed in the array.

array

The array `find()` was called upon.

thisArg Optional

A value to use as `this` when executing `callbackFn`. See [iterative methods](#).

Return value

The first element in the array that satisfies the provided testing function.

Otherwise, `undefined` is returned.

Description


The `find()` method is an [iterative method](#). It calls a provided `callbackFn` function once for each element in an array in ascending-index order, until `callbackFn` returns a [truthy](#) value. `find()` then returns that element and stops iterating through the array. If `callbackFn` never returns a truthy value, `find()` returns `undefined`. Read the [iterative methods](#) section for more information about how these methods work in general.

`callbackFn` is invoked for every index of the array, not just those with assigned values. Empty slots in [sparse arrays](#) behave the same as `undefined`.


The `find()` method is [generic](#). It only expects the `this` value to have a `length` property and integer-keyed properties.

Examples

Find an object in an array by one of its properties

```
JS   
  
const inventory = [  
  { name: "apples", quantity: 2 },  
  { name: "bananas", quantity: 0 },  
  { name: "cherries", quantity: 5 },  
];  
  
function isCherries(fruit) {  
  return fruit.name === "cherries";  
}  
  
console.log(inventory.find(isCherries));  
// { name: 'cherries', quantity: 5 }
```

Using arrow function and destructuring

```
JS 
```

```
const inventory = [
  { name: "apples", quantity: 2 },
  { name: "bananas", quantity: 0 },
  { name: "cherries", quantity: 5 },
];

const result = inventory.find(({ name }) => name === "cherries");

console.log(result); // { name: 'cherries', quantity: 5 }
```

Find the first prime number in an array

The following example returns the first element in the array that is a prime number, or [undefined](#) if there is no prime number.


```
JS 
```

```
function isPrime(element, index, array) {
  let start = 2;
  while (start <= Math.sqrt(element)) {
    if (element % start++ < 1) {
      return false;
    }
  }
  return element > 1;
}

console.log([4, 6, 8, 12].find(isPrime)); // undefined, not found
console.log([4, 5, 8, 12].find(isPrime)); // 5
```

Using the third argument of callbackFn

The `array` argument is useful if you want to access another element in the array, especially when you don't have an existing variable that refers to the array. The following example first uses `filter()` to extract the positive values and then uses `find()` to find the first element that is less than its neighbors.

```
JS 
```

```
const numbers = [3, -1, 1, 4, 1, 5, 9, 2, 6];
const firstTrough = numbers
  .filter((num) => num > 0)
  .find((num, idx, arr) => {
```

```
// Without the arr argument, there's no way to easily access the
// intermediate array without saving it to a variable.
if (idx > 0 && num >= arr[idx - 1]) return false;
if (idx < arr.length - 1 && num >= arr[idx + 1]) return false;
return true;
});
console.log(firstTrough); // 1
```

Using find() on sparse arrays

Empty slots in sparse arrays *are* visited, and are treated the same as `undefined`.

JS



```
// Declare array with no elements at indexes 2, 3, and 4
const array = [0, 1, , , , 5, 6];

// Shows all indexes, not just those with assigned values
array.find((value, index) => {
  console.log("Visited index", index, "with value", value);
});
// Visited index 0 with value 0
// Visited index 1 with value 1
// Visited index 2 with value undefined
// Visited index 3 with value undefined
// Visited index 4 with value undefined
// Visited index 5 with value 5
// Visited index 6 with value 6

// Shows all indexes, including deleted
array.find((value, index) => {
  // Delete element 5 on first iteration
  if (index === 0) {
    console.log("Deleting array[5] with value", array[5]);
    delete array[5];
  }
  // Element 5 is still visited even though deleted
  console.log("Visited index", index, "with value", value);
});
// Deleting array[5] with value 5
// Visited index 0 with value 0
// Visited index 1 with value 1
// Visited index 2 with value undefined
// Visited index 3 with value undefined
```

```
// Visited index 4 with value undefined
// Visited index 5 with value undefined
// Visited index 6 with value 6
```

Calling find() on non-array objects

The `find()` method reads the `length` property of `this` and then accesses each property whose key is a nonnegative integer less than `length`.

JS 




```
const arrayLike = {
  length: 3,
  "-1": 0.1, // ignored by find() since -1 < 0
  0: 2,
  1: 7.3,
  2: 4,
};
console.log(Array.prototype.find.call(arrayLike, (x) =>
!Number.isInteger(x)));
// 7.3
```

Specifications

Specification
ECMAScript® 2026 Language Specification # sec-array.prototype.find

Browser compatibility

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	Chrome	Edge	Firefox	Opera	Safari	Chrome Android	Firefox for Android	Opera Android	Safari on iOS	Samsung Internet	WebView Android	WebView on iOS	Deno	Node.js

find	✓ 45	✓ 12	✓ 25	✓ 32	✓ 8	✓ 45	✓ 4	✓ 32	✓ 8	✓ 5	✓ 45	✓ 8	✓ 1	✓ 4
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Tip: you can click/tap on a cell for more information.

✓ | Full support

See also

- [Polyfill of Array.prototype.find in core-js](#) 
- [es-shims polyfill of Array.prototype.find](#) 
- [Indexed collections](#) guide
- [Array](#)
- [Array.prototype.findIndex\(\)](#)
- [Array.prototype.findLast\(\)](#)
- [Array.prototype.findLastIndex\(\)](#)
- [Array.prototype.includes\(\)](#)
- [Array.prototype.filter\(\)](#)
- [Array.prototype.every\(\)](#)
- [Array.prototype.some\(\)](#)
- [TypedArray.prototype.find\(\)](#)

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