

Arrays in JavaScript



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Meaning

01

- Array is a user defined data types that can store any type of datatypes and it is a collection of multiple data types. In the below example,
An array 'a' stores a string, integer, float number, and a boolean expression.
- The type of array is object and array are mutable that means it can be changed according to need.

```
let a = ["apple", 5, 5.9, 'c', true]
console.log(a, typeof a)
//output :- complete array and "object"
```



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Basic Array Methods

02

1. length

```
// length is used to find the total number of elements  
// in an array. Counting starts from 1  
console.log(a.length) //5
```

2. Index

```
// index is also counting but it starts from 0 and  
// every array element is automatically assigned an index  
// and we can also access array elements from its index  
// index are written in square bracket  
console.log(a.indexOf(true)) //4  
console.log(a[2]) //5.9
```



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3. Element Manipulation

```
// we can change any array element. for that we use index  
// of the element we want to change and then assign a value  
a[4] = false  
console.log(a[3], a[4]) // c false
```

4. toString()

```
//we can convert an array into string  
let new_array = a.toString()  
console.log(new_array) // apple,5,5.9,c,false  
console.log(typeof new_array) //string
```

5. pop()

```
//we can delete an array element using pop function  
// delete the element in the last  
a.pop()  
console.log(a)
```



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6. join()

```
//we can write any thing inplace of ','  
console.log(a.join(" and "))  
// apple and 5 and 5.9 and c
```

7. push()

```
//push appends element in the end  
a.push(100)  
console.log(a)
```

8. shift()

```
//shift removes first element  
a.shift()  
console.log(a)
```



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9. unshift()

```
//unshift add element in the beginning  
a.unshift("apple")  
console.log(a)
```

10. delete()

```
//delete an element  
//Memory will retain but value will be deleted  
delete a[3]  
console.log(a)
```

11. sort()

```
//sort array element.  
a.sort()  
console.log(a)  
|
```



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11. splice()

```
//splice is used to add items in array  
// array.splice(start, no.of deletion, to be added)  
// here 3 is excluded only 0,1,2 will be deleted  
a.splice(0,3,"delta")  
console.log(a)  
// ['delta', <empty>, 100]
```

12. slice()

```
// slice is used to delete a particular range of element  
// last number is excluded  
let array = [1,2,3,4,5]  
console.log(array.slice(2)) // [3,4,5]  
console.log(array.slice(1,3)) // [2,3]
```

13. reverse()

```
//reverse the array elements  
console.log(array.reverse())  
// [5,4,3,2,1]
```



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