

ANT

Abstract of New Technology

Javascript Array



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Array

1. What is Array?

- **Array** is used to store multiple elements in a single variable.
- It can hold various **data types**, including **numbers**, **strings**, **objects**, and **even other arrays**.
- It is often used when we want to store a **list of elements** and access them by a **index**.

Syntax

```
const arr = ["Item1", "Item2", "Item3", ...];
```

Note: *[0] is the first element in an array. [1] is the second... (indexes start with 0)*



Array (cont.)

Array Methods and Properties?

- **Array Properties :**

Instance Properties	Descriptions
<u>constructor</u>	Returns only reference of the function and does not return the name of the function.
<u>length</u>	Set or return the number of elements in an array.



Array (cont.)

- **Array Method :**

Instance Properties	Descriptions
<code>indexOf()</code>	Search the array for an element and returns its position.
<code>concat()</code>	Joins two or more arrays, & returns a copy of the joined arrays.
<code>join()</code>	Joins all elements of an array into a string.
<code>lastIndexOf()</code>	Search the array for an element, starting at the end, and return its position.
<code>pop()</code>	Removes the last element of an array, and returns that element.



Array (cont.)

push()	Add new elements to the end of an array, and return the new length.
reverse()	Reverses the order of the elements in an array.
shift()	Removes the first element of an array, and returns that element.
slice()	Selects a part of an array, and returns the new array.
sort()	Sorts the elements of an array.
splice()	Adds/Removes elements from an array.



Array (cont.)

toString()	Convert an array to a string, and returns the result.
unshift()	Adds new elements to the beginning of an array, and returns the new length.
valueOf()	Returns the primitive value of an array.
forEach()	It is provided a function once for each element of the array.
includes()	If an array contains the certain value, it returns true.



Thanks!

