JavaScript Arrays

Arrays are used to store multiple values in a single variable. An array is a special variable which can hold more than one values at a time

Arrays are also stored in indexes,

In array each element has its own index:

let array = [Valorant’,’Cs:go’,’Gta v’,’Fortnite’,’Call of duty’];

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Valorant | Cs:go | Apex | Gta v | Fortnite | Call of duty |
| 0 | 1 | 2 | 3 | 4 | 5 |

Common operations on array:

* **Create an Array :**

Create a new array list

Syntax:

new Array(elemnt0,element,….,element)

Example:

let games = [‘Valorant’,’cs:go’,’Apex’]

console.log(games);

* **Access an Array using the index operation:**

Access the array elements using index which are they are stored in

Syntax:

let fav = games[0]

//Valorant

* **Add an item to the end of Array ( push ):**

Always adds new string at the end of the array

Syntax:

Push(element)

Example:

Let newgames = games.push(‘Fortnite’);

newgames

[‘Valorant’,’cs:go’,’Apex’,’fortnite’]

* **Remove an item from the end of the Array ( pop ):**

Always removes a strings from the end of the array

It doesn’t required any arguments

Syntax:

Pop()

Example:

Let newgames = games.pop()

newgames

[‘valorant’,’cs:go’,’Apex]

* **Add an item to the beginning of Array ( Unshift ):**

Adds a new string in the beginning of the array

Syntax:

Unshift(element)

Example:

let newgamess = newgames.unshift(‘pubg’);

newgamess

[’pubg’ ‘valorant’,’cs:go’,’Apex’]

* **Remove an item from beginning of array ( shift ):**

This removes the first string from the arrays first

Syntax:

Shift()

Example:

Newgames.shift()

[‘valorant’,’cs:go’,’Apex]

* **Find the index of an item in Array ( indexOf ):**

It finds the index of the given strings

Syntax:

indexOf(searchElement)

Example:

Newgames.indexOf(‘cs:go’)

//1

* **Remove an item by index position ( splice ):**

This method changes the content of an arrays and replaces or add new elements in place

Syntax:

Splice(start, deletecount, item1, itemN)

Example:

Newgames.splice(2, 1, dota2)

[‘valorant’,’cs:go’,’dota2’]

* **Copy an Array ( slice ):**

The slice methods returns the copy of a portion of the main arrays and create a different array the original arrays doesn’t changes

Syntax:

Slice(start, end)

Example:

Let newgames = [‘valorant’,’cs:go’.’Apex’]

Newgames.slice(1,2)

[‘cs:go’,’Apex’]