

# Array Methods In JS.

## 1. `at(index)`

- **Syntax:** `array.at(index)`

- **Example :**

```
// Sample array
let fruits = ['apple', 'orange', 'banana', 'grape', 'kiwi'];

// Using the at(index) method to access elements at specific indices
let firstFruit = fruits.at(0);
let thirdFruit = fruits.at(2);
let lastFruit = fruits.at(fruits.length - 1);

// Displaying the results
console.log("First Fruit:", firstFruit); // Output: "apple"
console.log("Third Fruit:", thirdFruit); // Output: "banana"
console.log("Last Fruit:", lastFruit); // Output: "kiwi"
```

## 2. `concat()`

- **Syntax:** `array.concat(array1, array2, ..., arrayN)`

- **Example :**

```
let fruits1 = ['apple', 'orange', 'banana'];
let fruits2 = ['grape', 'kiwi'];
let combinedFruits = fruits1.concat(fruits2);

// Displaying the result
console.log("Combined Fruits:", combinedFruits);
```

## 3. `constructor`

- **Syntax:** `Array([element0[, element1[, ...[, elementN]]]])`

- **Example :**

```
// Using the Array constructor to create an array
let newArray = new Array();

// Adding elements to the array
newArray.push('apple', 'orange', 'banana');

// Displaying the contents of the array
console.log(newArray); // Output: [ 'apple', 'orange', 'banana' ]
```

#### 4. `copyWithin(target, start, end)`

- **Syntax:** `array.copyWithin(target, start, end)`

- **Example :**

```
// Sample array
let numbers = [1, 2, 3, 4, 5, 6];

// Using the copyWithin method to copy elements within the array
numbers.copyWithin(3, 0, 2);

// Displaying the modified array
console.log(numbers); // Output: [1, 2, 3, 1, 2, 6]
```

#### 5. `entries()`

- **Syntax:** `array.entries()`

- **Example :**

```
// Sample array
let colors = ['red', 'green', 'blue'];

// Using entries() to get iterator
let iterator = colors.entries();

// Iterating through the entries using a for...of loop
for (let entry of iterator) {
  console.log(entry);
}

// Alternatively, you can use destructuring to get key and value
for (let [index, color] of colors.entries()) {
  console.log(`Index: ${index}, Color: ${color}`);
}
```

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