

# JavaScript TypedArray

The JavaScript TypedArray object illustrates an array like view of an underlying binary data buffer. There are many number of different global properties, whose values are TypedArray constructors for specific element types, listed below.

## Types of TypedArray

### Int8Array

- **Size in bytes:** 1
- **Description:** 8-bit two's complement signed integer.
- **Type:** byte.
- **Value Range:** -128 to 127

### Unit8Array

- **Size in bytes:** 1
- **Description:** 8-bit two's complement signed octet.
- **Type:** octet.
- **Value Range:** 0 to 255.

### Unit8ClampedArray

- **Size in bytes:** 1
- **Description:** 8-bit unsigned integer (clamped) octet.
- **Type:** octet.
- **Value Range:** 0 to 255.

### Int16Array

- **Size in bytes:** 2
- **Description:** 16-bit two's complement signed integer.
- **Type:** short.
- **Value Range:** -32768 to 32767.

### Unit16Array

- **Size in bytes:** 2
- **Description:** 16-bit unsigned integer.
- **Type:** unsigned short.
- **Value Range:** 0 to 65535.

### Int32Array

- **Size in bytes:** 4
- **Description:** 32-bit two's complement signed integer.
- **Type:** long.
- **Value Range:** -2147483648 to 2147483647.

### Uint32Array

- **Size in bytes:** 4
- **Description:** 32-bit unsigned integer.
- **Type:** unsigned long.
- **Value Range:** 0 to 4294967295

### Float32Array

- **Size in bytes:** 4
- **Description:** 32-bit IEEE floating point number unrestricted float.
- **Type:** unrestricted float.
- **Value Range:**  $1.2 \times 10^{-38}$  to  $3.4 \times 10^{38}$

### Float64Array

- **Size in bytes:** 8
- **Description:** 64-bit IEEE floating point number unrestricted double.
- **Type:** unrestricted double.
- **Value Range:**  $5.0 \times 10^{-324}$  to  $1.8 \times 10^{308}$

## JavaScript TypedArray Methods

Let's see the list of **JavaScript**  
TypedArray methods with their description.

Methods	Description
<b>copyWithin()</b>	The copyWithin () method copies a portion of an array to another location in the same array and returns the size without modification.
<b>entries()</b>	The JavaScript entries() method returns a new Array Iterator object that contains key/value pairs for each index in the array.
<b>every()</b>	JavaScript Array.every() method test whether all the elements of the array satisfy the given condition or not.
<b>fill()</b>	The JavaScript fill() method is used to fill all the elements of array from a start index to an end index with a static value.
<b>Filter()</b>	The JavaScript Array filter() method form a new array that fall under a given criteria from an existing array.
<b>find()</b>	The JavaScript find() Method is used to get the value of the first element in the array that satisfies the provided condition.
<b>findIndex()</b>	The JavaScript findIndex() method is provide the index of the element that complete the given test in the array.
<b>forEach()</b>	The JavaScript forEach() method calls the provided function once for each element of the array.
<b>includes()</b>	The JavaScript Array includes() method is inbuilt function in JavaScript which is used to determines whether a particular element is present in the array or not.
<b>indexOf()</b>	The JavaScript indexOf() Method is used to find the index of the element provided as the argument to the function.
<b>join()</b>	The JavaScript join() method is used to join all elements of an Array into a string.
<b>Keys()</b>	The JavaScript Keys() method is an inbuilt function in JavaScript. This method returns an Array Iterator object with the keys of an array.
<b>lastIndexOf()</b>	The JavaScript lastIndexOf() method returns the last position of a value, or it return -1 if the value is not found.

<code>map()</code>	The JavaScript <code>map()</code> method form a new array with the result of calling a function for every element.
<code>reduce()</code>	The JavaScript <code>reduce()</code> method reduce the elements of an array into a single value.
<code>reduceRight()</code>	The JavaScript <code>reduceRight()</code> method reduce the elements of an array into a single value.
<code>reverse()</code>	The JavaScript <code>reverse()</code> method is used to reverse the array.
<code>set()</code>	The JavaScript <code>set()</code> method is used to store values into the given array.
<code>Slice()</code>	The JavaScript <code>slice()</code> method gives the selected elements of the array on which is implemented.
<code>some()</code>	JavaScript <code>some()</code> method examine the elements of the array that satisfies the given condition or not.
<code>sort()</code>	The JavaScript <code>sort()</code> method is used to sort the array and returns the updated array.
<code>subarray()</code>	The JavaScript <code>subarray()</code> method returns a new array and it does not change the original array.
<code>values()</code>	The JavaScript <code>values()</code> method is used to define the value of the contents in the array
<code>toLocaleString()</code>	The JavaScript <code>toLocaleString()</code> method is used to convert the element of the given array into a string.
<code>toString()</code>	The JavaScript <code>toString()</code> method is used to convert the element of the given array into a string. And these Strings are separated by such as a comma ",".