

### Iterating

for (key in obj)	Iterates over keys
for (value of obj)	Iterates over values

### Array Methods

<code>arr.forEach(function(val, i, arr))</code>	Executes a function for each value.
<code>arr.every(function(val, i, arr))</code>	Returns true if every value passes the function test
<code>arr.reverse()</code>	Reverses the <i>original</i> array

### Searching

<code>arr.includes(val)</code>	Returns true if array contains a value
<code>arr.indexOf(val)</code>	Returns the index of a value in an array or -1 if not found
<code>arr.find(function)</code>	Returns the value of the first index to satisfy the function
<code>arr.findIndex(function)</code>	Returns the index of the first value to satisfy the function

### Add Values

<code>arr.splice(start, 0, items...)</code>	Adds items to array beginning at starting index
<code>arr.unshift(val)</code>	Adds val to front of array
<code>arr.push(val)</code>	Adds val to back of array

### Delete Values

<code>arr.splice(start, n)</code>	Delete n items from array beginning at starting index
<code>arr.shift()</code>	Removes <code>arr[0]</code> and returns the value
<code>arr.pop()</code>	Removes last value in a array and returns it

### Copy Values

<code>arr.slice(beg, end)</code>	Returns a shallow copy of arr from beg to end (non-inclusive)
----------------------------------	---

### Array Methods (cont)

#### To String

<code>arr.join(separat or)</code>	Returns a string from the array values, with an optional separator string
<code>JSON.stringify(arr)</code>	Returns a JSON string representation of array. Deep string.
<code>arr.toString()</code>	Returns a comma-delimited string of <b>scalar</b> array values. Shallow string.

#### Sorting

<code>arr.sort()</code>	Sorts lexicographically
<code>arr.sort((a, b) =&gt; a - b)</code>	Sorts numbers

### Number Methods

<code>num.toFixed(n)</code>	Returns a number rounded to n significant figures <b>after the decimal</b>
<code>num.toPrecision(n)</code>	Returns a <b>string</b> rounded to n significant figures
<code>num.toString()</code>	Returns a string representation of a number

### Object Methods

#### Object to Array

<code>Object.keys(obj)</code>	Array of obj keys
<code>Object.values(obj)</code>	Array of obj values
<code>Object.entries(obj)</code>	2D array of key:value pairs

#### Object to String

<code>JSON.stringify(obj)</code>	obj to string
<code>JSON.parse(obj)</code>	string to obj

#### Add/Remove Properties

<code>delete obj[key]</code>	Delete property
<code>obj[key] = value</code>	Add property



### String methods

`str.slice(begin, end)` returns a substring from beginning to end index

`str.toLowerCase()` Returns a lowercase version of str

### String to Array

`str.split(separator)` Returns an array of the string, split by the separator

### Searching Strings

`str.includes(str)` Returns true if str is in string

`str.indexOf(str)` Returns index of str if within string, or -1 otherwise

`str.startsWith(str, beg)` Returns true if string starts with str, optionally from *beg* index.

`str.endsWith(str, len)` Returns true if string starts with str, optionally limited to the first *len* characters

### Combine Strings

`str.concat(string s...)` Returns new string concatenation

### Math Object Methods

`Math.abs(num)` Returns the absolute value of num

### Random Numbers

`Math.round(Math.random() * (max - min) + min)` Returns a random number between two ints

`Math.random()` Returns a random number between 0 and 1.

### Rounding

`Math.floor(num)` Goes down to the nearest int  $\leq$  num

`Math.ceil(num)` Goes up to the nearest int  $\geq$  num

`Math.round(num)` Rounds to the nearest int

