

# JAVASCRIPT BUILT-IN FUNCTIONS

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## NUMBER METHODS

The Number object contains only the default methods that are part of every object's definition.

Method	Description
<a href="#">constructor</a>	Returns the function that created this object's instance. By default this is the Number object.
<a href="#">toExponential</a>	Forces a number to display in exponential notation, even if the number is in the range in which JavaScript normally uses standard notation.
<a href="#">toFixed</a>	Formats a number with a specific number of digits to the right of the decimal.
<a href="#">toLocaleString</a>	Returns a string value version of the current number in a format that may vary according to a browser's locale settings.
<a href="#">toPrecision</a>	Defines how many total digits <i>including digitstotheleftandrightofthedecimal</i> to display of a number.
<a href="#">toString</a>	Returns the string representation of the number's value.
<a href="#">valueOf</a>	Returns the number's value.

## BOOLEAN METHODS

Here is a list of each method and its description.

Method	Description
<a href="#">toSource</a>	Returns a string containing the source of the Boolean object; you can use this string to create an equivalent object.
<a href="#">toString</a>	Returns a string of either "true" or "false" depending upon the value of the object.
<a href="#">valueOf</a>	Returns the primitive value of the Boolean object.

## String Methods

Here is a list of each method and its description.

Method	Description
<a href="#">charAt</a>	Returns the character at the specified index.
<a href="#">charCodeAt</a>	Returns a number indicating the Unicode value of the character at the given index.
<a href="#">concat</a>	Combines the text of two strings and returns a new string.
<a href="#">indexOf</a>	Returns the index within the calling String object of the first occurrence of the specified value, or -1 if not found.

<a href="#">lastIndexOf</a>	Returns the index within the calling String object of the last occurrence of the specified value, or -1 if not found.
<a href="#">localeCompare</a>	Returns a number indicating whether a reference string comes before or after or is the same as the given string in sort order.
<a href="#">length</a>	Returns the length of the string.
<a href="#">match</a>	Used to match a regular expression against a string.
<a href="#">replace</a>	Used to find a match between a regular expression and a string, and to replace the matched substring with a new substring.
<a href="#">search</a>	Executes the search for a match between a regular expression and a specified string.
<a href="#">slice</a>	Extracts a section of a string and returns a new string.
<a href="#">split</a>	Splits a String object into an array of strings by separating the string into substrings.
<a href="#">substr</a>	Returns the characters in a string beginning at the specified location through the specified number of characters.
<a href="#">substring</a>	Returns the characters in a string between two indexes into the string.
<a href="#">toLocaleLowerCase</a>	The characters within a string are converted to lower case while respecting the current locale.
<a href="#">toLocaleUpperCase</a>	The characters within a string are converted to upper case while respecting the current locale.
<a href="#">toLowerCase</a>	Returns the calling string value converted to lower case.
<a href="#">toString</a>	Returns a string representing the specified object.
<a href="#">toUpperCase</a>	Returns the calling string value converted to uppercase.
<a href="#">valueOf</a>	Returns the primitive value of the specified object.

## STRING HTML WRAPPERS

Here is a list of each method which returns a copy of the string wrapped inside the appropriate HTML tag.

Method	Description
<a href="#">anchor</a>	Creates an HTML anchor that is used as a hypertext target.
<a href="#">big</a>	Creates a string to be displayed in a big font as if it were in a <big> tag.
<a href="#">blink</a>	Creates a string to blink as if it were in a <blink> tag.
<a href="#">bold</a>	Creates a string to be displayed as bold as if it were in a <b> tag.
<a href="#">fixed</a>	Causes a string to be displayed in fixed-pitch font as if it were in a <tt> tag.
<a href="#">fontcolor</a>	Causes a string to be displayed in the specified color as if it were in a <font color="color"> tag.
<a href="#">fontsize</a>	Causes a string to be displayed in the specified font size as if it were in a <font size="size"> tag.
<a href="#">italics</a>	Causes a string to be italic, as if it were in an <i> tag.

<a href="#">link</a>	Creates an HTML hypertext link that requests another URL.
<a href="#">small</a>	Causes a string to be displayed in a small font, as if it were in a <small> tag.
<a href="#">strike</a>	Causes a string to be displayed as struck-out text, as if it were in a <strike> tag.
<a href="#">sub</a>	Causes a string to be displayed as a subscript, as if it were in a <sub> tag
<a href="#">sup</a>	Causes a string to be displayed as a superscript, as if it were in a <sup> tag

## Array Methods

Here is a list of each method and its description.

Method	Description
<a href="#">concat</a>	Returns a new array comprised of this array joined with other arrays and/or values.
<a href="#">every</a>	Returns true if every element in this array satisfies the provided testing function.
<a href="#">filter</a>	Creates a new array with all of the elements of this array for which the provided filtering function returns true.
<a href="#">forEach</a>	Calls a function for each element in the array.
<a href="#">indexOf</a>	Returns the first <i>least</i> index of an element within the array equal to the specified value, or -1 if none is found.
<a href="#">join</a>	Joins all elements of an array into a string.
<a href="#">lastIndexOf</a>	Returns the last <i>greatest</i> index of an element within the array equal to the specified value, or -1 if none is found.
<a href="#">map</a>	Creates a new array with the results of calling a provided function on every element in this array.
<a href="#">pop</a>	Removes the last element from an array and returns that element.
<a href="#">push</a>	Adds one or more elements to the end of an array and returns the new length of the array.
<a href="#">reduce</a>	Apply a function simultaneously against two values of the array <i>fromleft – to – right</i> as to reduce it to a single value.
<a href="#">reduceRight</a>	Apply a function simultaneously against two values of the array <i>fromright – to – left</i> as to reduce it to a single value.
<a href="#">reverse</a>	Reverses the order of the elements of an array -- the first becomes the last, and the last becomes the first.
<a href="#">shift</a>	Removes the first element from an array and returns that element.
<a href="#">slice</a>	Extracts a section of an array and returns a new array.
<a href="#">some</a>	Returns true if at least one element in this array satisfies the provided testing function.
<a href="#">toSource</a>	Represents the source code of an object
<a href="#">sort</a>	Sorts the elements of an array.
<a href="#">splice</a>	Adds and/or removes elements from an array.

<a href="#">toString</a>	Returns a string representing the array and its elements.
<a href="#">unshift</a>	Adds one or more elements to the front of an array and returns the new length of the array.

## Date Methods:

Here is a list of each method and its description.

Method	Description
<a href="#">Date</a>	Returns today's date and time
<a href="#">getDate</a>	Returns the day of the month for the specified date according to local time.
<a href="#">getDay</a>	Returns the day of the week for the specified date according to local time.
<a href="#">getFullYear</a>	Returns the year of the specified date according to local time.
<a href="#">getHours</a>	Returns the hour in the specified date according to local time.
<a href="#">getMilliseconds</a>	Returns the milliseconds in the specified date according to local time.
<a href="#">getMinutes</a>	Returns the minutes in the specified date according to local time.
<a href="#">getMonth</a>	Returns the month in the specified date according to local time.
<a href="#">getSeconds</a>	Returns the seconds in the specified date according to local time.
<a href="#">getTime</a>	Returns the numeric value of the specified date as the number of milliseconds since January 1, 1970, 00:00:00 UTC.
<a href="#">getTimezoneOffset</a>	Returns the time-zone offset in minutes for the current locale.
<a href="#">getUTCDate</a>	Returns the day <i>date</i> of the month in the specified date according to universal time.
<a href="#">getUTCDay</a>	Returns the day of the week in the specified date according to universal time.
<a href="#">getUTCFullYear</a>	Returns the year in the specified date according to universal time.
<a href="#">getUTCHours</a>	Returns the hours in the specified date according to universal time.
<a href="#">getUTCMilliseconds</a>	Returns the milliseconds in the specified date according to universal time.
<a href="#">getUTCMinutes</a>	Returns the minutes in the specified date according to universal time.
<a href="#">getUTCMonth</a>	Returns the month in the specified date according to universal time.
<a href="#">getUTCSeconds</a>	Returns the seconds in the specified date according to universal time.
<a href="#">getYear</a>	<b>Deprecated</b> - Returns the year in the specified date according to local time. Use <code>getFullYear</code> instead.
<a href="#">setDate</a>	Sets the day of the month for a specified date according to local time.

<a href="#"><u>setFullYear</u></a>	Sets the full year for a specified date according to local time.
<a href="#"><u>setHours</u></a>	Sets the hours for a specified date according to local time.
<a href="#"><u>setMilliseconds</u></a>	Sets the milliseconds for a specified date according to local time.
<a href="#"><u>setMinutes</u></a>	Sets the minutes for a specified date according to local time.
<a href="#"><u>setMonth</u></a>	Sets the month for a specified date according to local time.
<a href="#"><u>setSeconds</u></a>	Sets the seconds for a specified date according to local time.
<a href="#"><u>setTime</u></a>	Sets the Date object to the time represented by a number of milliseconds since January 1, 1970, 00:00:00 UTC.
<a href="#"><u>setUTCDate</u></a>	Sets the day of the month for a specified date according to universal time.
<a href="#"><u>setUTCFullYear</u></a>	Sets the full year for a specified date according to universal time.
<a href="#"><u>setUTCHours</u></a>	Sets the hour for a specified date according to universal time.
<a href="#"><u>setUTCMilliseconds</u></a>	Sets the milliseconds for a specified date according to universal time.
<a href="#"><u>setUTCMinutes</u></a>	Sets the minutes for a specified date according to universal time.
<a href="#"><u>setUTCMonth</u></a>	Sets the month for a specified date according to universal time.
<a href="#"><u>setUTCSeconds</u></a>	Sets the seconds for a specified date according to universal time.
<a href="#"><u>setYear</u></a>	<b>Deprecated</b> - Sets the year for a specified date according to local time. Use setFullYear instead.
<a href="#"><u>toDate</u></a>	Returns the "date" portion of the Date as a human-readable string.
<a href="#"><u>toGMTString</u></a>	<b>Deprecated</b> - Converts a date to a string, using the Internet GMT conventions. Use toUTCString instead.
<a href="#"><u>toLocaleDateString</u></a>	Returns the "date" portion of the Date as a string, using the current locale's conventions.
<a href="#"><u>toLocaleFormat</u></a>	Converts a date to a string, using a format string.
<a href="#"><u>toLocaleString</u></a>	Converts a date to a string, using the current locale's conventions.
<a href="#"><u>toLocaleTimeString</u></a>	Returns the "time" portion of the Date as a string, using the current locale's conventions.
<a href="#"><u>toSource</u></a>	Returns a string representing the source for an equivalent Date object; you can use this value to create a new object.
<a href="#"><u>toString</u></a>	Returns a string representing the specified Date object.
<a href="#"><u>toTimeString</u></a>	Returns the "time" portion of the Date as a human-readable string.
<a href="#"><u>toUTCString</u></a>	Converts a date to a string, using the universal time convention.
<a href="#"><u>valueOf</u></a>	Returns the primitive value of a Date object.

## Date Static Methods:

In addition to the many instance methods listed previously, the Date object also defines two static methods. These methods are invoked through the Date constructor itself:

Method	Description
<a href="#">Date.parse</a>	Parses a string representation of a date and time and returns the internal millisecond representation of that date.
<a href="#">Date.UTC</a>	Returns the millisecond representation of the specified UTC date and time.

## Math Methods

Here is a list of each method and its description.

Method	Description
<a href="#">abs</a>	Returns the absolute value of a number.
<a href="#">acos</a>	Returns the arccosine <i>in radians</i> of a number.
<a href="#">asin</a>	Returns the arcsine <i>in radians</i> of a number.
<a href="#">atan</a>	Returns the arctangent <i>in radians</i> of a number.
<a href="#">atan2</a>	Returns the arctangent of the quotient of its arguments.
<a href="#">ceil</a>	Returns the smallest integer greater than or equal to a number.
<a href="#">cos</a>	Returns the cosine of a number.
<a href="#">exp</a>	Returns $E^N$ , where N is the argument, and E is Euler's constant, the base of the natural logarithm.
<a href="#">floor</a>	Returns the largest integer less than or equal to a number.
<a href="#">log</a>	Returns the natural logarithm <i>base E</i> of a number.
<a href="#">max</a>	Returns the largest of zero or more numbers.
<a href="#">min</a>	Returns the smallest of zero or more numbers.
<a href="#">pow</a>	Returns base to the exponent power, that is, base exponent.
<a href="#">random</a>	Returns a pseudo-random number between 0 and 1.
<a href="#">round</a>	Returns the value of a number rounded to the nearest integer.
<a href="#">sin</a>	Returns the sine of a number.
<a href="#">sqrt</a>	Returns the square root of a number.
<a href="#">tan</a>	Returns the tangent of a number.
<a href="#">toSource</a>	Returns the string "Math".

## RegExp Methods:

Here is a list of each method and its description.

Method	Description
<a href="#">exec</a>	Executes a search for a match in its string parameter.
<a href="#">test</a>	Tests for a match in its string parameter.

[toSource](#)

Returns an object literal representing the specified object; you can use this value to create a new object.

[toString](#)

Returns a string representing the specified object.

Processing math: 100%