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JavaScript - The Number Object

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The **Number** object represents numerical date, either integers or floating-point numbers. In general, you do not need to worry about **Number** objects because the browser automatically converts number literals to instances of the number class.

Syntax

The syntax for creating a **number** object is as follows −

var val = new Number(number);

In the place of number, if you provide any non-number argument, then the argument cannot be converted into a number, it returns **NaN** (Not-a-Number).

Number Properties

Here is a list of each property and their description.

|  |  |
| --- | --- |
| **Property** | **Description** |
| [**MAX\_VALUE**](http://www.tutorialspoint.com/javascript/number_max_value.htm) | The largest possible value a number in JavaScript can have 1.7976931348623157E+308 |
| [**MIN\_VALUE**](http://www.tutorialspoint.com/javascript/number_min_value.htm) | The smallest possible value a number in JavaScript can have 5E-324 |
| [**NaN**](http://www.tutorialspoint.com/javascript/number_nan.htm) | Equal to a value that is not a number. |
| [**NEGATIVE\_INFINITY**](http://www.tutorialspoint.com/javascript/number_negative_infinity.htm) | A value that is less than MIN\_VALUE. |
| [**POSITIVE\_INFINITY**](http://www.tutorialspoint.com/javascript/number_positive_infinity.htm) | A value that is greater than MAX\_VALUE |
| [**prototype**](http://www.tutorialspoint.com/javascript/object_prototype.htm) | A static property of the Number object. Use the prototype property to assign new properties and methods to the Number object in the current document |
| [**constructor**](http://www.tutorialspoint.com/javascript/number_constructor.htm) | Returns the function that created this object's instance. By default this is the Number object. |

In the following sections, we will take a few examples to demonstrate the properties of Number.

Number Methods

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

|  |  |
| --- | --- |
| **Method** | **Description** |
| [**toExponential()**](http://www.tutorialspoint.com/javascript/number_toexponential.htm) | Forces a number to display in exponential notation, even if the number is in the range in which JavaScript normally uses standard notation. |
| [**toFixed()**](http://www.tutorialspoint.com/javascript/number_tofixed.htm) | Formats a number with a specific number of digits to the right of the decimal. |
| [**toLocaleString()**](http://www.tutorialspoint.com/javascript/number_tolocalestring.htm) | Returns a string value version of the current number in a format that may vary according to a browser's local settings. |
| [**toPrecision()**](http://www.tutorialspoint.com/javascript/number_toprecision.htm) | Defines how many total digits (including digits to the left and right of the decimal) to display of a number. |
| [**toString()**](http://www.tutorialspoint.com/javascript/number_tostring.htm) | Returns the string representation of the number's value. |
| [**valueOf()**](http://www.tutorialspoint.com/javascript/number_valueof.htm) | Returns the number's value. |

In the following sections, we will have a few examples to explain the methods of Number.

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