# Числа

Десетични числа 0,1 \* 0,2 !== 0,3

Number to string (toString())

Infinity

NaN

New Number -> object

parseInt(), parseFloat();

Convert variable to number with Number();

**Прости функции**

- събиране

- изваждане

- деление

- умножение

**Конвертор на мерни единици**

**Квадратно уравнение (https://www.math10.com/bg/algebra/quadratic-equation.html)**

ax^2 + bx + c = 0

Числото D = b^2 - 4ac се нарича дискриминанта.

Ako D < 0, квадратното уравнение няма реални корени.

Ako D = 0, уравнението има 1 реален корен.

Ako D > 0, квадратното уравнение има 2 реални корена.

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| **Method** | **Description** |
| abs(x) | Returns the absolute value of x |
| acos(x) | Returns the arccosine of x, in radians |
| asin(x) | Returns the arcsine of x, in radians |
| atan(x) | Returns the arctangent of x as a numeric value between -PI/2 and PI/2 radians |
| atan2(y,x) | Returns the arctangent of the quotient of its arguments |
| ceil(x) | Returns the value of x rounded up to its nearest integer |
| cos(x) | Returns the cosine of x (x is in radians) |
| exp(x) | Returns the value of Ex |
| floor(x) | Returns the value of x rounded down to its nearest integer |
| log(x) | Returns the natural logarithm (base E) of x |
| max(x,y,z,...,n) | Returns the number with the highest value |
| min(x,y,z,...,n) | Returns the number with the lowest value |
| pow(x,y) | Returns the value of x to the power of y |
| random() | Returns a random number between 0 and 1 |
| round(x) | Returns the value of x rounded to its nearest integer |
| sin(x) | Returns the sine of x (x is in radians) |
| sqrt(x) | Returns the square root of x |
| tan(x) | Returns the tangent of an angle |

# Низове

Синтаксис:

* Кавички
* Ескейпинг
* Length

|  |  |
| --- | --- |
| **Code** | **Outputs** |
| \' | single quote |
| \" | double quote |
| \\ | backslash |
| \n | new line |
| \r | carriage return |
| \t | tab |
| \b | backspace |
| \f | form feed |

String vs Object string

## **String Properties**

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| **Property** | **Description** |
| [constructor](http://www.w3schools.com/jsref/jsref_constructor_string.asp) | Returns the string's constructor function |
| [length](http://www.w3schools.com/jsref/jsref_length_string.asp) | Returns the length of a string |
| [prototype](http://www.w3schools.com/jsref/jsref_prototype_string.asp) | Allows you to add properties and methods to an object |

## **String Methods**

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| **Method** | **Description** |
| [charAt()](http://www.w3schools.com/jsref/jsref_charat.asp) | Returns the character at the specified index (position) |
| [charCodeAt()](http://www.w3schools.com/jsref/jsref_charcodeat.asp) | Returns the Unicode of the character at the specified index |
| [concat()](http://www.w3schools.com/jsref/jsref_concat_string.asp) | Joins two or more strings, and returns a new joined strings |
| [endsWith()](http://www.w3schools.com/jsref/jsref_endswith.asp) | Checks whether a string ends with specified string/characters |
| [fromCharCode()](http://www.w3schools.com/jsref/jsref_fromcharcode.asp) | Converts Unicode values to characters |
| [includes()](http://www.w3schools.com/jsref/jsref_includes.asp) | Checks whether a string contains the specified string/characters |
| [indexOf()](http://www.w3schools.com/jsref/jsref_indexof.asp) | Returns the position of the first found occurrence of a specified value in a string |
| [lastIndexOf()](http://www.w3schools.com/jsref/jsref_lastindexof.asp) | Returns the position of the last found occurrence of a specified value in a string |
| [localeCompare()](http://www.w3schools.com/jsref/jsref_localecompare.asp) | Compares two strings in the current locale |
| [match()](http://www.w3schools.com/jsref/jsref_match.asp) | Searches a string for a match against a regular expression, and returns the matches |
| [repeat()](http://www.w3schools.com/jsref/jsref_repeat.asp) | Returns a new string with a specified number of copies of an existing string |
| [replace()](http://www.w3schools.com/jsref/jsref_replace.asp) | Searches a string for a specified value, or a regular expression, and returns a new string where the specified values are replaced |
| [search()](http://www.w3schools.com/jsref/jsref_search.asp) | Searches a string for a specified value, or regular expression, and returns the position of the match |
| [slice()](http://www.w3schools.com/jsref/jsref_slice_string.asp) | Extracts a part of a string and returns a new string |
| [split()](http://www.w3schools.com/jsref/jsref_split.asp) | Splits a string into an array of substrings |
| [startsWith()](http://www.w3schools.com/jsref/jsref_startswith.asp) | Checks whether a string begins with specified characters |
| [substr()](http://www.w3schools.com/jsref/jsref_substr.asp) | Extracts the characters from a string, beginning at a specified start position, and through the specified number of character |
| [substring()](http://www.w3schools.com/jsref/jsref_substring.asp) | Extracts the characters from a string, between two specified indices |
| [toLocaleLowerCase()](http://www.w3schools.com/jsref/jsref_tolocalelowercase.asp) | Converts a string to lowercase letters, according to the host's locale |
| [toLocaleUpperCase()](http://www.w3schools.com/jsref/jsref_tolocaleuppercase.asp) | Converts a string to uppercase letters, according to the host's locale |
| [toLowerCase()](http://www.w3schools.com/jsref/jsref_tolowercase.asp) | Converts a string to lowercase letters |
| [toString()](http://www.w3schools.com/jsref/jsref_tostring_string.asp) | Returns the value of a String object |
| [toUpperCase()](http://www.w3schools.com/jsref/jsref_touppercase.asp) | Converts a string to uppercase letters |
| [trim()](http://www.w3schools.com/jsref/jsref_trim_string.asp) | Removes whitespace from both ends of a string |
| [valueOf()](http://www.w3schools.com/jsref/jsref_valueof_string.asp) | Returns the primitive value of a String object |

All string methods return a new value. They do not change the original variable.

## **String HTML Wrapper Methods**

The HTML wrapper methods return the string wrapped inside the appropriate HTML tag.

These are not standard methods, and may not work as expected in all browsers.

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| **Method** | **Description** |
| [anchor()](http://www.w3schools.com/jsref/jsref_anchor.asp) | Creates an anchor |
| [big()](http://www.w3schools.com/jsref/jsref_big.asp) | Displays a string using a big font |
| [blink()](http://www.w3schools.com/jsref/jsref_blink.asp) | Displays a blinking string |
| [bold()](http://www.w3schools.com/jsref/jsref_bold.asp) | Displays a string in bold |
| [fixed()](http://www.w3schools.com/jsref/jsref_fixed.asp) | Displays a string using a fixed-pitch font |
| [fontcolor()](http://www.w3schools.com/jsref/jsref_fontcolor.asp) | Displays a string using a specified color |
| [fontsize()](http://www.w3schools.com/jsref/jsref_fontsize.asp) | Displays a string using a specified size |
| [italics()](http://www.w3schools.com/jsref/jsref_italics.asp) | Displays a string in italic |
| [link()](http://www.w3schools.com/jsref/jsref_link.asp) | Displays a string as a hyperlink |
| [small()](http://www.w3schools.com/jsref/jsref_small.asp) | Displays a string using a small font |
| [strike()](http://www.w3schools.com/jsref/jsref_strike.asp) | Displays a string with a strikethrough |
| [sub()](http://www.w3schools.com/jsref/jsref_sub.asp) | Displays a string as subscript text |
| [sup()](http://www.w3schools.com/jsref/jsref_sup.asp) | Displays a string as superscript text |