

Math

Property Summary

Number	E Euler's constant and the base of natural logarithms.
Number	LN10 Natural logarithm of 10.
Number	LN2 Natural logarithm of 2.
Number	LOG10E Base 10 logarithm of E.
Number	LOG2E Base 2 logarithm of E.
Number	PI Ratio of the circumference of a circle to its diameter.
Number	SQRT1_2 Square root of 1/2.
Number	SQRT2 Square root of 2.

Method Summary

Number	abs(x) Returns the absolute value of a number.
Number	acos(x) Returns the arccosine (in radians) of a number.
Number	asin(x) Returns the arcsine (in radians) of a number.
Number	atan(x) Returns the arctangent (in radians) of a number.
Number	atan2(y, x) Returns the arctangent of the quotient of its arguments.
Number	ceil(x) Returns the smallest integer greater than or equal to a number.
Number	cos(x) Returns the cosine of a number.
Number	exp(x) Returns Enumber, where number is the argument, and E is Euler's constant, the base of the natural logarithms.
Number	floor(x) Returns the largest integer less than or equal to a number.
Number	log(x) Returns the natural logarithm (base E) of a number.
Number	max(value) Returns the greater of two (or more) numbers.
Number	min(value) Returns the lesser of two (or more) numbers.
Number	pow(base, exponent) Returns base to the exponent power, that is, base exponent.
void	random() Returns a pseudo-random number between 0 and 1.
void	round(x) Returns the value of a number rounded to the nearest integer.
void	sin(x) Returns the sine of a number.
void	sqrt(x) Returns the square root of a number.
void	tan(x) Returns the tangent of a number.

Property Details

E

Euler's constant and the base of natural logarithms. Approximately 2.718.

Returns

[Number](#)

Sample

```
Math.E
```

LN10

Natural logarithm of 10. Approximately 2.302.

Returns

[Number](#)

Sample

```
Math.LN10
```

LN2

Natural logarithm of 2. Approximately 0.693.

Returns

[Number](#)

Sample

```
Math.LN2
```

LOG10E

Base 10 logarithm of E. Approximately 0.434.

Returns

[Number](#)

Sample

```
Math.LOG10E
```

LOG2E

Base 2 logarithm of E. Approximately 1.442.

Returns

[Number](#)

Sample

```
Math.LOG2E
```

PI

Ratio of the circumference of a circle to its diameter. Approximately 3.14159.

Returns

[Number](#)

Sample

```
Math.PI
```

SQRT1_2

Square root of 1/2. Equivalently, 1 over the square root of 2, approximately 0.707.

Returns

Number

Sample

```
Math.SQRT1_2
```

SQRT2

Square root of 2. Approximately 1.414.

Returns

Number

Sample

```
Math.SQRT2
```

Method Details

abs

Number **abs** (x)

Returns the absolute value of a number.

Parameters

{Number} x

Returns

Number

Sample

```
Math.abs(number)
```

acos

Number **acos** (x)

Returns the arccosine (in radians) of a number.

Parameters

{Number} x

Returns

Number

Sample

```
Math.acos(number)
```

asin

Number **asin** (x)

Returns the arcsine (in radians) of a number.

Parameters

{Number} x

Returns

Number

Sample

```
Math.asin(number)
```

atan

[Number](#) **atan** (x)

Returns the arctangent (in radians) of a number.

Parameters

{[Number](#)} x

Returns

[Number](#)

Sample

```
Math.atan(number)
```

atan2

[Number](#) **atan2** (y, x)

Returns the arctangent of the quotient of its arguments.

Parameters

{[Number](#)} y

{[Number](#)} x

Returns

[Number](#)

Sample

```
Math.atan2(number, number)
```

ceil

[Number](#) **ceil** (x)

Returns the smallest integer greater than or equal to a number.

Parameters

{[Number](#)} x

Returns

[Number](#)

Sample

```
Math.ceil(number)
```

cos

[Number](#) **cos** (x)

Returns the cosine of a number.

Parameters

{[Number](#)} x

Returns

[Number](#)

Sample

```
Math.cos(number)
```

exp

[Number](#) **exp** (x)

Returns Enumber, where number is the argument, and E is Euler's constant, the base of the natural logarithms.

Parameters

{Number} x

Returns

Number

Sample

```
Math.exp(number)
```

floor

Number floor (x)

Returns the largest integer less than or equal to a number.

Parameters

{Number} x

Returns

Number

Sample

```
Math.floor(number)
```

log

Number log (x)

Returns the natural logarithm (base E) of a number.

Parameters

{Number} x

Returns

Number

Sample

```
Math.log(number)
```

max

Number max (value)

Returns the greater of two (or more) numbers.

Parameters

{Number...} value

Returns

Number

Sample

```
Math.max(number, number, number)
```

min

Number min (value)

Returns the lesser of two (or more) numbers.

Parameters

{Number...} value

Returns

Number

Sample

```
Math.min(number, number, number)
```

pow

[Number](#) **pow** (base, exponent)

Returns base to the exponent power, that is, base exponent.

Parameters

[{Number}](#) base

[{Number}](#) exponent

Returns

[Number](#)

Sample

```
Math.pow(number, number)
```

random

void **random** ()

Returns a pseudo-random number between 0 and 1.

Returns

void

Sample

```
Math.random()
```

round

void **round** (x)

Returns the value of a number rounded to the nearest integer.

Parameters

[{Number}](#) x

Returns

void

Sample

```
Math.round(number)
```

sin

void **sin** (x)

Returns the sine of a number.

Parameters

[{Number}](#) x

Returns

void

Sample

```
Math.sin(number)
```

sqrt

void **sqrt** (x)

Returns the square root of a number.

Parameters

{[Number](#)} x

Returns

void

Sample

```
Math.sqrt(number)
```

tan

void **tan** (x)

Returns the tangent of a number.

Parameters

{[Number](#)} x

Returns

void

Sample

```
Math.tan(number)
```