

Reference > float()

float()

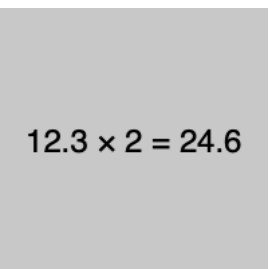
Converts a `String` to a floating point (decimal) `Number`.

`float()` converts strings that resemble numbers, such as `'12.34'`, into numbers.

The parameter, `str`, is the string value to convert. For example, calling `float('12.34')` returns the number `12.34`. If an array of strings is passed, as in `float(['12.34', '56.78'])`, then an array of numbers will be returned.

Note: If a string can't be converted to a number, as in `float('giraffe')`, then the value `NaN` (not a number) will be returned.

Examples



```
function setup() {
  createCanvas(100, 100);

  background(200);

  // Create a string variable.
  let original = '12.3';

  // Convert the string to a number.
  let converted = float(original);

  // Double the converted value.
  let twice = converted * 2;

  // Style the text.
  textAlign(CENTER, CENTER);
  textSize(12);

  // Display the original and converted values.
  text(`${original} × 2 = ${twice}`, 50, 50);

  describe('The text "12.3 × 2 = 24.6" written in black on a gray background.');
```



```
function setup() {
  createCanvas(100, 100);

  background(200);

  // Create an array of strings.
  let original = ['60', '30', '15'];

  // Convert the strings to numbers.
  let diameters = float(original);

  for (let d of diameters) {
    // Draw a circle.
    circle(50, 50, d);
  }

  describe('Three white, concentric circles on a gray background.');
```

Syntax

| | |
|-------------------------|--|
| <code>float(str)</code> | |
| <code>float(ns)</code> | |

Parameters

| | |
|------------------|--|
| <code>str</code> | String: string to convert. |
| <code>ns</code> | String[]: array of strings to convert. |

Returns

Number: converted number.

This page is generated from the comments in [src/utilities/conversion.js](#). Please feel free to edit it and submit a pull request!

Related References

| | | | |
|---|---|--|---|
| boolean Converts a String or Number to a Boolean. | byte Converts a Boolean, String, or Number to its byte value. | char Converts a Number or String to a single-character String. | float Converts a String to a floating point (decimal) Number. |
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