# brace-expansion

[Brace expansion](https://www.gnu.org/software/bash/manual/html_node/Brace-Expansion.html), as known from sh/bash, in JavaScript.

[build status](http://travis-ci.org/juliangruber/brace-expansion) [downloads](https://www.npmjs.org/package/brace-expansion) [Greenkeeper badge](https://greenkeeper.io/)

[](https://ci.testling.com/juliangruber/brace-expansion)

## Example

var expand = require('brace-expansion');

expand('file-{a,b,c}.jpg')

// => ['file-a.jpg', 'file-b.jpg', 'file-c.jpg']

expand('-v{,,}')

// => ['-v', '-v', '-v']

expand('file{0..2}.jpg')

// => ['file0.jpg', 'file1.jpg', 'file2.jpg']

expand('file-{a..c}.jpg')

// => ['file-a.jpg', 'file-b.jpg', 'file-c.jpg']

expand('file{2..0}.jpg')

// => ['file2.jpg', 'file1.jpg', 'file0.jpg']

expand('file{0..4..2}.jpg')

// => ['file0.jpg', 'file2.jpg', 'file4.jpg']

expand('file-{a..e..2}.jpg')

// => ['file-a.jpg', 'file-c.jpg', 'file-e.jpg']

expand('file{00..10..5}.jpg')

// => ['file00.jpg', 'file05.jpg', 'file10.jpg']

expand('{{A..C},{a..c}}')

// => ['A', 'B', 'C', 'a', 'b', 'c']

expand('ppp{,config,oe{,conf}}')

// => ['ppp', 'pppconfig', 'pppoe', 'pppoeconf']

## API

var expand = require('brace-expansion');

### var expanded = expand(str)

Return an array of all possible and valid expansions of str. If none are found, [str] is returned.

Valid expansions are:

/^(.\*,)+(.+)?$/

// {a,b,...}

A comma separated list of options, like {a,b} or {a,{b,c}} or {,a,}.

/^-?\d+\.\.-?\d+(\.\.-?\d+)?$/

// {x..y[..incr]}

A numeric sequence from x to y inclusive, with optional increment. If x or y start with a leading 0, all the numbers will be padded to have equal length. Negative numbers and backwards iteration work too.

/^-?\d+\.\.-?\d+(\.\.-?\d+)?$/

// {x..y[..incr]}

An alphabetic sequence from x to y inclusive, with optional increment. x and y must be exactly one character, and if given, incr must be a number.

For compatibility reasons, the string ${ is not eligible for brace expansion.

## Installation

With [npm](https://npmjs.org) do:

npm install brace-expansion

## Contributors

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## Sponsors

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## Security contact information

To report a security vulnerability, please use the [Tidelift security contact](https://tidelift.com/security). Tidelift will coordinate the fix and disclosure.

## License

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