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1.16 airbrake-ruby 1.2.3

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1.36 angular-ui-router0 0.2.12

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1.37 angular-xeditable 0.1.8

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# 1.38 ansi 0.3.0

## 1.38.1 Available under license:

ansi.js

#######

```javascript
ansi.js

---

ansi.js' is a module for Node.js that provides an easy-to-use API for writing ANSI escape codes to 'Stream' instances. ANSI escape codes are used to do fancy things in a terminal window, like render text in colors, delete characters, lines, the entire window, or hide and show the cursor, and lots more!

**** Features:

* 256 color support for the terminal!
* Make a beep sound from your terminal!
* Works with *any* writable 'Stream' instance.
* Allows you to move the cursor anywhere on the terminal window.
* Allows you to delete existing contents from the terminal window.
* Allows you to hide and show the cursor.
* Converts CSS color codes and RGB values into ANSI escape codes.
* Low-level; you are in control of when escape codes are used, it's not abstracted.

Installation

-----------

Install with `npm`:

```bash
$ npm install ansi
```

Example

------

```javascript
var ansi = require('ansi')
var cursor = ansi(process.stdout)

// You can chain your calls forever:

// Set font color to red
cursor.red()

// Set background color to grey
.cursor.bg.grey()

// Write 'Hello World!' to stdout
.cursor.write('Hello World!')

// Reset the bgcolor before writing the trailing \n,
.cursor.bg.reset()
```
// to avoid Terminal glitches
.write('n')  // And a final 'n to wrap things up

// Rendering modes are persistent:
cursor.hex('#660000').bold().underline()

// You can use the regular logging functions, text will be green:
console.log('This is blood red, bold text')

// To reset just the foreground color:
cursor.fg.reset()

console.log('This will still be bold')

// to go to a location (x,y) on the console
// note: 1-indexed, not 0-indexed:
cursor.goto(10, 5).write('Five down, ten over')

// to clear the current line:
cursor.horizontalAbsolute(0).eraseLine().write('Starting again')

// to go to a different column on the current line:
cursor.horizontalAbsolute(5).write('column five')

// Clean up after yourself!
cursor.reset()
```

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1.39 ansi-escapes 1.1.0

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1.40 ansi-green 0.1.1

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1.41 ansi-regex 2.0.0

1.41.1 Available under license:

# ansi-regex ![Build Status](https://travis-ci.org/sindresorhus/ansi-regex.svg?branch=master)

> Regular expression for matching [ANSI escape codes](http://en.wikipedia.org/wiki/ANSI_escape_code)

```javascript
var ansiRegex = require('ansi-regex');

ansiRegex().test('[4mcake[0m');
//=> true

ansiRegex().test('cake');
//=> false

'[4mcake\u001b[0m'.match(ansiRegex());
//=> ['\u001b[4m', '\u001b[0m']
```

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1.43 ansi-styles 2.1.0
1.43.1 Available under license :

# ansi-styles ![Build Status](https://travis-ci.org/chalk/ansi-styles.svg?branch=master)

> [ANSI escape codes](http://en.wikipedia.org/wiki/ANSI_escape_code#Colors_and_Styles) for styling strings in
the terminal

You probably want the higher-level [chalk](https://github.com/chalk/chalk) module for styling your strings.

![screenshot.png]

## Install

```
$ npm install --save ansi-styles
```

```
## Usage

```javascript
var ansi = require('ansi-styles');

console.log(ansi.green.open + 'Hello world!' + ansi.green.close);
```

## API

Each style has an `open` and `close` property.

## Styles

### Modifiers

- `reset`
- `bold`
- `dim`
- `italic` *(not widely supported)*
- `underline`
- `inverse`
- `hidden`
- `strikethrough` *(not widely supported)*

### Colors

- `black`
- `red`
- `green`
- `yellow`
- `blue`
- `magenta`
- `cyan`
- `white`
- `gray`

### Background colors

- `bgBlack`
- `bgRed`
- `bgGreen`
- `bgYellow`
- `bgBlue`
- `bgMagenta`
## Advanced usage

By default you get a map of styles, but the styles are also available as groups. They are non-enumerable so they
don't show up unless you access them explicitly. This makes it easier to expose only a subset in a higher-level
module.

- `ansi.modifiers`
- `ansi.colors`
- `ansi.bgColors`

##### Example

```js
console.log(ansi.colors.green.open);
```

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1.45 ansible 1.9.2

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Version 3, 29 June 2007

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1.60 are-we-there-yet 1.0.4
1.60.1 Available under license:

{
    "name": "are-we-there-yet",
    "version": "1.0.4",
    "description": "Keep track of the overall completion of many dispirate processes",
    "main": "index.js",
    "scripts": {
        "test": "tap test/*.js"
    },
    "repository": {
        "type": "git",
        "url": "https://github.com/iarna/are-we-there-yet.git"
    },
    "author": "Rebecca Turner (http://rebecca.org)",
    "license": "ISC",
    "bugs": {
        "url": "https://github.com/iarna/are-we-there-yet/issues"
    },
    "homepage": "https://github.com/iarna/are-we-there-yet",
    "devDependencies": {
        "tap": "^0.4.13"
    },
    "dependencies": {
        "delegates": "^0.1.0",
        "readable-stream": "^1.1.13"
    }
}

1.61 arel 5.0.1.20140414130214

1.62 argparse 1.0.3

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1.63 arr-diff 1.1.0

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1.65 arr-pm 0.0.10

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1.67 array-filter 0.0.1

1.67.1 Available under license:

# array-filter

`Array#filter` for older browsers.


```js
var filter = require('array-filter');

var array = [1, 2, 3];
console.log(filter(array, function (el, i, arr) {
  return false; // I throw it on the ground!
}));
// => []
```
## Installation

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

```bash
$ npm install array-filter
```

Then bundle for the browser with [browserify](https://github.com/substack/browserify).

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1.68 array-map 0.0.0

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1.69 array-reduce 0.0.0

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1.70 array-slice 0.2.3

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1.71 array-uniq 1.0.2

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1.72 array-unique 0.2.1

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1.73 ASM 4.0

1.73.1 Available under license:

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1.74 ASM Core 4.0
1.74.1 Available under license:

```
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 */
```

1.75 asn1 0.1.11
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1.76 assert-plus 0.1.5
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1.77 async 0.2.10-0
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1.78 async 1.4.0

1.79 async 0.2.10
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1.80 async-each 0.1.6
1.80.1 Available under license:
# async-each

No-bullshit, ultra-simple, 35-lines-of-code async parallel forEach function for JavaScript.
We don't need junky 30K async libs. Really.

For browsers and node.js.

## Installation
* Just include async-each before your scripts.
* `npm install async-each` if you’re using node.js.
* `component install paulmillr/async-each` if you’re using [component](https://github.com/component/component).
* `bower install async-each` if you’re using [Twitter Bower](http://bower.io).

## Usage
* `each(array, iterator, callback);` — `Array`, `Function`, `(optional) Function`
* `iterator(item, next)` receives current item and a callback that will mark the item as done. `next` callback receives optional `error, transformedItem` arguments.
* `callback(error, transformedArray)` optionally receives first error and transformed result `Array`.

Node.js:

```
```
```javascript
var each = require('async-each');
each(['a.js', 'b.js', 'c.js'], fs.readFile, function(error, contents) {
  if (error) console.error(error);
  console.log('Contents for a, b and c:', contents);
});
```

Browser:

```
```javascript
// component(1)
var each = require('async-each');
each(list, fn, callback);

// Default:
window.asyncEach(list, fn, callback);
```

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1.81 attr_encrypted 1.3.5
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1.82 Avro-avro 1.7.5 :Java
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1.83 aws-sign2 0.5.0

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1.86 balanced-match 0.2.0

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1.88 base64-url 1.2.1

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1.89 base64id 0.1.0

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1.90 basic-auth 1.0.3

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1.91 basic-auth 1.0.0

1.91.1 Available under license:

# basic-auth

Generic basic auth Authorization header field parser for whatever.

## Installation

```
$ npm install basic-auth
```

## Example
Pass a node request or koa Context object to the module exported. If parsing fails `undefined` is returned, otherwise an object with `.name` and `.pass`.

```js
var auth = require('basic-auth');
var user = auth(req);
// => { name: 'something', pass: 'whatever' }
```

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1.92 basic-auth-connect 1.0.0

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Connect's Basic Auth middleware in its own module. This module is considered deprecated. You should instead create your own middleware with [basic-auth](https://github.com/visionmedia/node-basic-auth).

## API

```js
var basicAuth = require('basic-auth-connect');
```

Sorry, couldn't think of a more clever name.

Simple username and password

```js
connect()
  .use(basicAuth('username', 'password'));
```

Callback verification

```js
connect()
  .use(basicAuth(function(user, pass){
    return 'tj' == user && 'wahoo' == pass;
  }));
```
Async callback verification, accepting `fn(err, user)`.

```javascript
connect()
  .use(basicAuth(function(user, pass, fn){
    User.authenticate({ user: user, pass: pass }, fn);
  }))
```

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1.93 batch 0.5.2

1.93.1 Available under license:

```bash
# batch

Simple async batch with concurrency control and progress reporting.

## Installation

```bash
$ npm install batch
```
## API

```js
var Batch = require('batch'), batch = new Batch;

batch.concurrency(4);

ids.forEach(function(id){
    batch.push(function(done){
        User.get(id, done);
    });
});

batch.on('progress', function(e){
    
});

batch.end(function(err, users){
    
    
    
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```json
{
    "name": "binary",
    "version": "0.3.0",
    "description": "Unpack multibyte binary values from buffers",
    "main": ".\index.js",
    "repository": {
        "type": "git",
        "url": "http://github.com/substack/node-binary.git"
    },
    "keywords": [
        "binary",
        "decode",
        "endian",
        "unpack",
        "signed",
        "unsigned"
    ],
    "author": {
        "name": "James Halliday",
        "email": "mail@substack.net",
        "url": "http://substack.net"
    },
    "dependencies": {
        "chainsaw": "~0.1.0",
        "buffers": "~0.1.1"
    },
    "devDependencies": {
        "seq": "~0.2.5",
        "tap": "~0.2.4"
    },
    "scripts": {
        "test": "tap test/*.js"
    },
    "license": "MIT",
    "engine": {
        "node": ">=0.4.0"
    }
}
```
1.99 binary-extensions 1.3.1

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</a>


# Introduction

Bluebird is a fully featured [promise](#what-are-promises-and-why-should-i-use-them) library with focus on innovative features and performance.
# Topics

- [Features](#features)
- [Quick start](#quick-start)
- [API Reference and examples](API.md)
- [Support](#support)
- [What are promises and why should I use them?](#what-are-promises-and-why-should-i-use-them)
- [Questions and issues](#questions-and-issues)
- [Error handling](#error-handling)
- [Development](#development)
  - [Testing](#testing)
  - [Benchmarking](#benchmarks)
  - [Custom builds](#custom-builds)
  - [For library authors](#for-library-authors)
- [What is the sync build?](#what-is-the-sync-build)
- [License](#license)
- [Snippets for common problems](https://github.com/petkaantonov/bluebird/wiki/Snippets)
- [Promise anti-patterns](https://github.com/petkaantonov/bluebird/wiki/Promise-anti-patterns)
- [Changelog](changelog.md)
- [Optimization guide](#optimization-guide)

# Features

- [Promises A+](http://promisesaplus.com)
- [Synchronous inspection](API.md#synchronous-inspection)
- [Concurrency coordination](API.md#collections)
- [Promisification on steroids](API.md#promisification)
- [Resource management through a parallel of python `with`/C# `using`](API.md#resource-management)
- [Cancellation and timeouts](API.md#cancellation)
- [Parallel for C# `async` and `await`](API.md#generators)
- Mind blowing utilities such as
  - `bind()` (API.md#binddynamic-thisarg---promise)
  - `.call()` (API.md#callstring-propertyname--dynamic-arg---promise)
  - `Promise.join()` (API.md#promisejoinpromisetenablevalue-promises-function-handler---promise)
  - [And](API.md#core) [much](API.md#timers) [more](API.md#utility)
- [Practical debugging solutions and sane defaults](#error-handling)
- [Sick performance](benchmark/)

<hr>

# Quick start

## Node.js

```
npm install bluebird
```
Then:

```js
var Promise = require("bluebird");
```

## Browsers

There are many ways to use bluebird in browsers:

- Direct downloads
  - Full build [bluebird.js](https://cdn.jsdelivr.net/bluebird/latest/bluebird.js)
  - Full build minified [bluebird.min.js](https://cdn.jsdelivr.net/bluebird/latest/bluebird.min.js)
- You may use browserify on the main export
- You may use the [bower](http://bower.io) package.

When using script tags the global variables `Promise` and `P` (alias for `Promise`) become available.

A [minimal bluebird browser build](#custom-builds) is ≈38.92KB minified*, 11.65KB gzipped and has no external dependencies.

*Google Closure Compiler using Simple.

#### Browser support

Browsers that [implement ECMA-262, edition 3](http://en.wikipedia.org/wiki/EcmaScript#Implementations) and later are supported.


**Note** that in ECMA-262, edition 3 (IE7, IE8 etc.) it is not possible to use methods that have keyword names like `.catch` and `.finally`. The [API documentation](API.md) always lists a compatible alternative name that you can use if you need to support these browsers. For example `.catch` is replaced with `.caught` and `.finally` with `.lastly`.

Also, [long stack trace](API.md#promiselongstacktraces---void) support is only available in Chrome, Firefox and Internet Explorer 10+.

After quick start, see [API Reference and examples](API.md)

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# Support

- Mailing list: [bluebird-js@googlegroups.com](https://groups.google.com/forum/#!forum/bluebird-js)
- IRC: #promises @freenode

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# What are promises and why should I use them?

You should use promises to turn this:

```js
fs.readFile("file.json", function(err, val) {
  if( err ) {
    console.error("unable to read file");
  }
  else {
    try {
      val = JSON.parse(val);
      console.log(val.success);
    }
    catch( e ) {
      console.error("invalid json in file");
    }
  }
});
```

Into this:

```js
fs.readFileAsync("file.json").then(JSON.parse).then(function(val) {
  console.log(val.success);
}).catch(SyntaxError, function(e) {
  console.error("invalid json in file");
}).catch(function(e) {
  console.error("unable to read file");
});
```

*If you are wondering "there is no `readFileAsync` method on `fs` that returns a promise", see [promisification](API.md#promisification)*

Actually you might notice the latter has a lot in common with code that would do the same using synchronous I/O:

```js
try {
  var val = JSON.parse(fs.readFileSync("file.json"));
} catch(SyntaxError, function(e) {
  console.error("invalid json in file");
})
```
```js
console.log(val.success);
}
//Syntax actually not supported in JS but drives the point
catch(SyntaxError e) {
    console.error("invalid json in file");
}
catch(Error e) {
    console.error("unable to read file");
}
```

And that is the point - being able to have something that is a lot like `return` and `throw` in synchronous code.

You can also use promises to improve code that was written with callback helpers:

```js
//Copyright Plato http://stackoverflow.com/a/19385911/995876
//CC BY-SA 2.5
mapSeries(URLs, function (URL, done) {
    var options = {};
    needle.get(URL, options, function (error, response, body) {
        if (error) {
            return done(error);
        }
        try {
            var ret = JSON.parse(body);
            return done(null, ret);
        }
        catch (e) {
            done(e);
        }
    });
}, function (err, results) {
    if (err) {
        console.log(err);
    } else {
        console.log('All Needle requests successful');
        // results is a 1 to 1 mapping in order of URLs > needle.body
        processAndSaveAllInDB(results, function (err) {
            if (err) {
                return done(err);
            }
            console.log('All Needle requests saved');
            done(null);
        });
    }
});
```
Is more pleasing to the eye when done with promises:

```js
Promise.promisifyAll(needle);
var options = { };

var current = Promise.resolve();
Promise.map(URLs, function(URL) {
    current = current.then(function () {
        return needle.getAsync(URL, options);
    });
    return current;
}).map(function(responseAndBody){
    return JSON.parse(responseAndBody[1]);
}).then(function (results) {
    return processAndSaveAllInDB(results);
}).then(function(){
    console.log('All Needle requests saved');
}).catch(function (e) {
    console.log(e);
});
```

Also promises don't just give you correspondences for synchronous features but can also be used as limited event
emitters or callback aggregators.

More reading:

- [Promise nuggets](https://promise-nuggets.github.io/)
- [Why I am switching to promises](http://spion.github.io/posts/why-i-am-switching-to-promises.html)
- [What is the the point of promises](http://domenic.me/2012/10/14/youre-missing-the-point-of-promises/#toc_1)
- [Snippets for common problems](https://github.com/petkaantonov/bluebird/wiki/Snippets)
- [Promise anti-patterns](https://github.com/petkaantonov/bluebird/wiki/Promise-anti-patterns)

# Questions and issues

If you find a bug in bluebird or have a feature request, file an issue in the [github issue
tracker](https://github.com/petkaantonov/bluebird/issues). Anything else, such as questions for help in using the
library, should be posted in [StackOverflow](http://stackoverflow.com/questions/tagged/bluebird) under tags
'throw' and 'bluebird'.

# Error handling

This is a problem every promise library needs to handle in some way. Unhandled rejections/exceptions don't really
have a good agreed-on asynchronous correspondence. The problem is that it is impossible to predict the future and
know if a rejected promise will eventually be handled.
There are two common pragmatic attempts at solving the problem that promise libraries do.

The more popular one is to have the user explicitly communicate that they are done and any unhandled rejections should be thrown, like so:

```js
download().then(...).then(...).done();
```

For handling this problem, in my opinion, this is completely unacceptable and pointless. The user must remember to explicitly call `.done` and that cannot be justified when the problem is forgetting to create an error handler in the first place.

The second approach, which is what bluebird by default takes, is to call a registered handler if a rejection is unhandled by the start of a second turn. The default handler is to write the stack trace to `stderr` or `console.error` in browsers. This is close to what happens with synchronous code - your code doesn't work as expected and you open console and see a stack trace. Nice.

Of course this is not perfect, if your code for some reason needs to swoop in and attach error handler to some promise after the promise has been hanging around a while then you will see annoying messages. In that case you can use the `.done()` method to signal that any hanging exceptions should be thrown.

If you want to override the default handler for these possibly unhandled rejections, you can pass yours like so:

```js
Promise.onPossiblyUnhandledRejection(function(error){
  throw error;
});
```

If you want to also enable long stack traces, call:

```js
Promise.longStackTraces();
```

right after the library is loaded.

In node.js use the environment flag `BLUEBIRD_DEBUG`:

```js
BLUEBIRD_DEBUG=1 node server.js
```

to enable long stack traces in all instances of bluebird.

Long stack traces cannot be disabled after being enabled, and cannot be enabled after promises have already been
created. Long stack traces imply a substantial performance penalty, even after using every trick to optimize them.

Long stack traces are enabled by default in the debug build.

#### Expected and unexpected errors

A practical problem with Promises/A+ is that it models Javascript `try-catch` too closely for its own good. Therefore by default promises inherit `try-catch` warts such as the inability to specify the error types that the catch block is eligible for. It is an anti-pattern in every other language to use catch-all handlers because they swallow exceptions that you might not know about.

Now, Javascript does have a perfectly fine and working way of creating error type hierarchies. It is still quite awkward to use them with the built-in `try-catch` however:

```js
try {
    //code
}
catch(e) {
    if( e instanceof WhatIWantError) {
        //handle
    } else {
        throw e;
    }
}
```

Without such checking, unexpected errors would be silently swallowed. However, with promises, bluebird brings the future (hopefully) here now and extends the `.catch` to [accept potential error type eligibility](API.md#catchfunction-errorclass-function-handler---promise).

For instance here it is expected that some evil or incompetent entity will try to crash our server from `SyntaxError` by providing syntactically invalid JSON:

```js
getJSONFromSomewhere().then(function(jsonString) {
    return JSON.parse(jsonString);
}).then(function(object) {
    console.log("it was valid json: ", object);
}).catch(SyntaxError, function(e){
    console.log("don't be evil");
});
```

Here any kind of unexpected error will be automatically reported on `stderr` along with a stack trace because we only register a handler for the expected `SyntaxError`. 
Ok, so, that's pretty neat. But actually not many libraries define error types and it is in fact a complete ghetto out there with ad hoc strings being attached as some arbitrary property name like `.name`, `.type`, `.code`, not having any property at all or even throwing strings as errors and so on. So how can we still listen for expected errors?

Bluebird defines a special error type `OperationalError` (you can get a reference from `Promise.OperationalError`). This type of error is given as rejection reason by promisified methods when their underlying library gives an untyped, but expected error. Primitives such as strings, and error objects that are directly created like `new Error("database didn't respond")` are considered untyped.

Example of such library is the node core library `fs`. So if we promisify it, we can catch just the errors we want pretty easily and have programmer errors be redirected to unhandled rejection handler so that we notice them:

```javascript
```

//Read more about promisification in the API Reference:
//API.md
var fs = Promise.promisifyAll(require("fs"));

fs.readFileAsync("myfile.json").then(JSON.parse).then(function (json) {
  console.log("Successful json");
}).catch(SyntaxError, function (e) {
  console.error("file contains invalid json");
}).catch(Promise.OperationalError, function (e) {
  console.error("unable to read file, because: ", e.message);
});
```

The last `catch` handler is only invoked when the `fs` module explicitly used the `err` argument convention of async callbacks to inform of an expected error. The `OperationalError` instance will contain the original error in its `.cause` property but it does have a direct copy of the `.message` and `.stack` too. In this code any unexpected error - be it in our code or the `fs` module - would not be caught by these handlers and therefore not swallowed.

Since a `catch` handler typed to `Promise.OperationalError` is expected to be used very often, it has a neat shorthand:

```
```

See [API documentation for `.error()`](API.md#error-rejectedhandler----promise)

Finally, Bluebird also supports predicate-based filters. If you pass a predicate function instead of an error type, the predicate will receive the error as an argument. The return result will be used to determine whether the error handler should be called.

Predicates should allow for very fine grained control over caught errors:
pattern matching, error types with set operations and many other techniques can be implemented on top of them.

Example of using a predicate-based filter:

```js
var Promise = require("bluebird");
var request = Promise.promisify(require("request"));

function clientError(e) {
    return e.code >= 400 && e.code < 500;
}

request("http://www.google.com").then(function(contents){
    console.log(contents);
}).catch(clientError, function(e){
    // A client error like 400 Bad Request happened
});
```

**Danger:** The JavaScript language allows throwing primitive values like strings. Throwing primitives can lead to worse or no stack traces. Primitives [are not exceptions](http://www.devthought.com/2011/12/22/a-string-is-not-an-error/). You should consider always throwing Error objects when handling exceptions.

#### How do long stack traces differ from e.g. Q?

Bluebird attempts to have more elaborate traces. Consider:

```js
Error.stackTraceLimit = 25;
Q.longStackSupport = true;
Q().then(function outer() {
    return Q().then(function inner() {
        return Q().then(function evenMoreInner() {
            a.b.c.d();
        }).catch(function catcher(e){
            console.error(e.stack);
        });
    });
});
```

You will see

ReferenceError: a is not defined
        at evenMoreInner (<anonymous>:7:13)
From previous event:
   at inner (<anonymous>:6:20)

Compare to:
```
```js
Error.stackTraceLimit = 25;
Promise.longStackTraces();
Promise.resolve().then(function outer() {
   return Promise.resolve().then(function inner() {
      return Promise.resolve().then(function evenMoreInner() {
         a.b.c.d();
      }).catch(function catcher(e){
         console.error(e.stack);
      });
   });
});
```

A better and more practical example of the differences can be seen in gorgikosev's [debuggability competition](https://github.com/spion/async-compare#debuggability).

---

# Development

For development tasks such as running benchmarks or testing, you need to clone the repository and install dev-dependencies.

Install [node](http://nodejs.org/) and [npm](https://npmjs.org/)

```bash
git clone git@github.com:petkaantonov/bluebird.git
cd bluebird
npm install
```
## Testing

To run all tests, run

    node tools/test

If you need to run generator tests run the `tool/test.js` script with `--harmony` argument and node 0.11+:

    node-dev --harmony tools/test

You may specify an individual test file to run with the `--run` script flag:

    node tools/test --run=cancel.js

This enables output from the test and may give a better idea where the test is failing. The parameter to `--run` can be any file name located in `test/mocha` folder.

##### Testing in browsers

To run the test in a browser instead of node, pass the flag `--browser` to the test tool

    node tools/test --run=cancel.js --browser

This will automatically create a server (default port 9999) and open it in your default browser once the tests have been compiled.

Keep the test tab active because some tests are timing-sensitive and will fail if the browser is throttling timeouts. Chrome will do this for example when the tab is not active.

##### Supported options by the test tool

The value of boolean flags is determined by presence, if you want to pass false value for a boolean flag, use the `no-` prefix e.g. `--no-browser`.

- `--run=String` - Which tests to run (or compile when testing in browser). Default `"all"`. Can also be a glob string (relative to ./test/mocha folder).
- `--cover=String`. Create code coverage using the String as istanbul reporter. Coverage is created in the ./coverage folder. No coverage is created by default, default reporter is `"html"` (use `--cover` to use default reporter).
- `--browser` - Whether to compile tests for browsers. Default `false`.
- `--port=Number` - Port where local server is hosted when testing in browser. Default `9999`
- `--execute-browser-tests` - Whether to execute the compiled tests for browser when using `--browser`. Default `true`.
- `--open-browser` - Whether to open the default browser when executing browser tests. Default `true`.
- `--fake-timers` - Whether to use fake timers (`setTimeout` etc) when running tests in node. Default `true`.
- `--js-hint` - Whether to run JSHint on source files. Default `true`.
- `--saucelabs` - Whether to create a tunnel to sauce labs and run tests in their VMs instead of your browser when compiling tests for browser. Default `false`.
## Benchmarks

To run a benchmark, run the given command for a benchmark while on the project root. Requires bash (on windows the mingw32 that comes with git works fine too).

Node 0.11.2+ is required to run the generator examples.

### 1. DoxBee sequential

Currently the most relevant benchmark is @gorkikosev's benchmark in the article [Analysis of generators and other async patterns in node](http://spion.github.io/posts/analysis-generators-and-other-async-patterns-node.html). The benchmark emulates a situation where n amount of users are making a request in parallel to execute some mixed async/sync action. The benchmark has been modified to include a warm-up phase to minimize any JITing during timed sections.

Command: `bench doxbee`

### 2. Made-up parallel

This made-up scenario runs 15 shimmed queries in parallel.

Command: `bench parallel`

## Custom builds

Custom builds for browsers are supported through a command-line utility.

<table>
<thead>
<tr>
<th>Feature(s)</th>
<th>Command line identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>.any</code> and <code>Promise.any</code></td>
<td><code>any</code></td>
</tr>
<tr>
<td><code>.race</code> and <code>Promise.race</code></td>
<td><code>race</code></td>
</tr>
<tr>
<td><code>.call</code> and <code>.get</code></td>
<td><code>call_get</code></td>
</tr>
<tr>
<td>Method</td>
<td>Function</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>----------</td>
</tr>
<tr>
<td>.filter</td>
<td>filter</td>
</tr>
<tr>
<td>Promise.filter</td>
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<tr>
<td>.map</td>
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<td>Promise.map</td>
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<td>.reduce</td>
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<td>Promise.reduce</td>
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<td>.props</td>
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<td>Promise.props</td>
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<td>.settle</td>
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<td>Promise.settle</td>
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<td>Promise.some</td>
<td>some</td>
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<tr>
<td>.nodeify</td>
<td>nodeify</td>
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<tr>
<td>Promise.nodeify</td>
<td>nodeify</td>
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<tr>
<td>Promise.coroutine</td>
<td>coroutine</td>
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<tr>
<td>Promise.spawn</td>
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<td>progression</td>
<td>progress</td>
</tr>
<tr>
<td>Promisification</td>
<td>promisify</td>
</tr>
<tr>
<td>Cancellation</td>
<td>cancel</td>
</tr>
<tr>
<td>Timers</td>
<td>timers</td>
</tr>
<tr>
<td>Resource management</td>
<td>using</td>
</tr>
</tbody>
</table>

Make sure you have cloned the repo somewhere and did `npm install` successfully.

After that you can run:

```bash
node tools/build --features="core"
```

The above builds the most minimal build you can get. You can add more features separated by spaces from the above list:

```bash
node tools/build --features="core filter map reduce"
```

The custom build file will be found from `\js\browser\bluebird.js`. It will have a comment that lists the disabled and
enabled features.

Note that the build leaves the `/js/main` etc folders with same features so if you use the folder for node.js at the same time, don't forget to build a full version afterwards (after having taken a copy of the bluebird.js somewhere):

```
node tools/build --debug --main --zalgo --browser --minify
```

#### Supported options by the build tool

The value of boolean flags is determined by presence, if you want to pass false value for a boolean flag, use the `no-`-prefix e.g. `--no-debug`.

- `--main` - Whether to build the main build. The main build is placed at `js/main` directory. Default `false`.
- `--debug` - Whether to build the debug build. The debug build is placed at `js/debug` directory. Default `false`.
- `--zalgo` - Whether to build the zalgo build. The zalgo build is placed at `js/zalgo` directory. Default `false`.
- `--browser` - Whether to compile the browser build. The browser build file is placed at `js/browser/bluebird.js` Default `false`.
- `--minify` - Whether to minify the compiled browser build. The minified browser build file is placed at `js/browser/bluebird.min.js` Default `true`.
- `--features=String` - See [custom builds](#custom-builds)

## For library authors

Building a library that depends on bluebird? You should know about a few features.

If your library needs to do something obtrusive like adding or modifying methods on the `Promise` prototype, uses long stack traces or uses a custom unhandled rejection handler then... that's totally ok as long as you don't use `require("bluebird")`. Instead you should create a file that creates an isolated copy. For example, creating a file called `bluebird-extended.js` that contains:

```js
//NOTE the function call right after
module.exports = require("bluebird/js/main/promise")();
```

Your library can then use `var Promise = require("bluebird-extended");` and do whatever it wants with it. Then if the application or other library uses their own bluebird promises they will all play well together because of Promises/A+ thenable assimilation magic.

You should also know about `:.nodeify()`[API.md#nodeifyfunction-callback---promise] which makes it easy to provide a dual callback/promise API.

## What is the sync build?
You may now use sync build by:

```javascript
var Promise = require("bluebird/zalgo");
```

The sync build is provided to see how forced asynchrony affects benchmarks. It should not be used in real code due to the implied hazards.

The normal async build gives Promises/A+ guarantees about asynchronous resolution of promises. Some people think this affects performance or just plain love their code having a possibility of stack overflow errors and non-deterministic behavior.

The sync build skips the async call trampoline completely, e.g code like:

```javascript
async.invoke( this.fn, this, val );
```

Appears as this in the sync build:

```javascript
this.fn(val);
```

This should pressure the CPU slightly less and thus the sync build should perform better. Indeed it does, but only marginally. The biggest performance boosts are from writing efficient Javascript, not from compromising determinism.

Note that while some benchmarks are waiting for the next event tick, the CPU is actually not in use during that time. So the resulting benchmark result is not completely accurate because on node.js you only care about how much the CPU is taxed. Any time spent on CPU is time the whole process (or server) is paralyzed. And it is not graceful like it would be with threads.

```javascript
var cache = new Map(); //ES6 Map or DataStructures/Map or whatever...
function getResult(url) {
    var resolver = Promise.pending();
    if (cache.has(url)) {
        resolver.resolve(cache.get(url));
    } else {
        http.get(url, function(err, content) {
            if (err) resolver.reject(err);
            else {
                cache.set(url, content);
                resolver.resolve(content);
            }
        });
    }
    return resolver.promise;
}
```
//The result of console.log is truly random without async guarantees
function guessWhatItPrints( url ) {
    var i = 3;
    getResult(url).then(function(){
        i = 4;
    });
    console.log(i);
}
```

# Optimization guide

Articles about optimization will be periodically posted in [the wiki section](https://github.com/petkaantonov/bluebird/wiki), polishing edits are welcome.

A single cohesive guide compiled from the articles will probably be done eventually.

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1.104 bluebird 2.3.11

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1.105 body-parser 1.13.3

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1.110 boon-boon-bundle 0.33

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package github

import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
type LicensesService struct {
    client *Client
}

// License represents an open source license.
type License struct {
    Key   *string `json:"key,omitempty"`
    Name  *string `json:"name,omitempty"`
    URL   *string `json:"url,omitempty"`
    HTMLURL        *string `json:"html_url,omitempty"`
    Featured       *bool   `json:"featured,omitempty"`
    Description    *string `json:"description,omitempty"`
    Category       *string `json:"category,omitempty"`
    Implementation *string `json:"implementation,omitempty"`
    Required       *[[]string `json:"required,omitempty"`
    Permitted      *[[]string `json:"permitted,omitempty"`
    Forbidden      *[[]string `json:"forbidden,omitempty"`
    Body           *string `json:"body,omitempty"`
}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List() ([]License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }
    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)
licenses := new([]License)
resp, err := s.client.Do(req, licenses)
if err != nil {
    return nil, resp, err
}
return *licenses, resp, err

// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }
    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    license := new(License)
    resp, err := s.client.Do(req, license)
    if err != nil {
        return nil, resp, err
    }
    return license, resp, err
}

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1.114 Bower 1.7.9

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1.119 brace-expansion 1.1.0
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# brace-expansion


## Example
```js
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']
```
```js
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:

```js
/(.*,)+(.+)?$/
// {a,b,...}
```

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

```js
/^[-]?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.

```js
/^[-]?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:

```bash
```
```
```

## Contributors

- [Julian Gruber](https://github.com/juliangruber)
- [Isaac Z. Schlueter](https://github.com/isaacs)

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1.120 brace-expansion 1.1.2
# brace-expansion


## Example

```js
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}}')
```
## API

```js
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:

```js
/^(.*,)+(.+)?$/
// {a,b,...}
```

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

```js
/^\-?\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.

```js
/^\-?\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:

```
```
```bash
```
npm install brace-expansion

```

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### 1.121 braces 1.8.2

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1.122 bsh 2.0b4

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1.126 builder 3.2.2

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1.127 builtin-modules 1.1.0

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# 1.128 builtin-status-codes 1.0.0

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> The map of HTTP status codes from the builtin http module. Exposes the latest directly from `http` in Node, with
>a zero-dependencies version for the browser.

```sh
$ npm install --save builtin-status-codes
```

```js
var codes = require('builtin-status-codes')
codes[100] //=> Continue
```

## Build

To create a new browser build:

```
$ npm run build
```
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### 1.129 bundler 1.11.2

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1.130 bytes 2.1.0

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Utility to parse a string bytes (ex: `1TB`) to bytes (`1099511627776`) and vice-versa.

```js
var bytes = require('bytes');
```

```js
bytes.format(number value, [options]): string|null
```

Format the given value in bytes into a string. If the value is negative, it is kept as such. If it is a float, it is rounded.

**Arguments**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>value</td>
<td><code>number</code></td>
<td>Value in bytes</td>
</tr>
<tr>
<td>options</td>
<td><code>Object</code></td>
<td>Conversion options</td>
</tr>
</tbody>
</table>

**Options**

<table>
<thead>
<tr>
<th>Property</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>thousandsSeparator</td>
<td>string &amp; #124; <code>null</code></td>
<td>Example of values: <code>&quot;\&quot;, &quot;,&quot;</code> and <code>\</code>``. Default value to <code>&quot;\</code>`.</td>
</tr>
</tbody>
</table>

**Returns**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>results</td>
<td><code>string</code> &amp; #124; <code>null</code></td>
<td>Return null upon error. String value otherwise.</td>
</tr>
</tbody>
</table>

**Example**

```js
```
bytes(1024);
// output: '1kB'

bytes(1000);
// output: '1000B'

bytes(1000, {thousandsSeparator: ' '});
// output: '1 000B'
```

#### bytes.parse(string value): number|null

Parse the string value into an integer in bytes. If no unit is given, it is assumed the value is in bytes.

**Arguments**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>value</td>
<td><code>string</code></td>
<td>String to parse.</td>
</tr>
</tbody>
</table>

**Returns**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>results</td>
<td><code>number</code></td>
<td><code>null</code></td>
</tr>
</tbody>
</table>

**Example**

```js
bytes('1kB');
// output: 1024

bytes('1024');
// output: 1024
```

### Installation

```bash
npm install bytes --save
component install visionmedia/bytes.js
```

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1.131 cabin 0.8.1
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1.134 camelcase-keys 2.0.0

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1.135 cancancan 1.13.1

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1.136 cardinal 0.4.4

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1.137 caseless 0.11.0

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{
  "name": "caseless",
  "version": "0.9.0",
  "description": "Caseless object set/get/has, very useful when working with HTTP headers.",
  "main": "index.js",
  "scripts": {
    "test": "node test.js"
  },
  "repository": {
    "type": "git",
    "url": "https://github.com/mikeal/caseless"
  },
  "keywords": [
    "headers",
    "http",
    "caseless"
  ],
  "test": "node test.js",
  "author": "Mikeal Rogers <mikeal.rogers@gmail.com>",
  "license": "BSD",
  "bugs": {
    "url": "https://github.com/mikeal/caseless/issues"
  },
  "devDependencies": {
    "tape": "^2.10.2"
  }
}
```

1.139 CFPropertyList 2.2.8

1.140 cglib-nodep 2.2.2
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1.141 chainsaw 0.1.0

1.141.1 Available under license:

```json
{
    "name" : "chainsaw",
    "version" : "0.1.0",
    "description" : "Build chainable fluent interfaces the easy way... with a freakin' chainsaw!",
    "main" : "./index.js",
    "repository" : {
        "type" : "git",
        "url" : "http://github.com/substack/node-chainsaw.git"
    },
    "dependencies" : {
        "traverse" : ">=0.3.0 <0.4"
    },
    "keywords" : [
        "chain",
        "fluent",
        "interface",
        "easy",
        "build",
        "chainable",
        "fluent"
    ]
}
```
1.142 chalk 1.1.1

1.142.1 Available under license:

> Terminal string styling done right


[colors.js](https://github.com/Marak/colors.js) used to be the most popular string styling module, but it has serious deficiencies like extending `String.prototype` which causes all kinds of problems. Although there are other ones, they either do too much or not enough.

**Chalk is a clean and focused alternative.**


## Why

- Highly performant
- Doesn’t extend `String.prototype`
- Expressive API
- Ability to nest styles
- Clean and focused
- Auto-detects color support
- Actively maintained
- [Used by ~4500 modules](https://www.npmjs.com/browse/depended/chalk) as of July 15, 2015

## Install

```bash
$ npm install --save chalk
```

## Usage

Chalk comes with an easy to use composable API where you just chain and nest the styles you want.

```js
var chalk = require('chalk');

// style a string
chalk.blue('Hello world!');

// combine styled and normal strings
chalk.blue('Hello') + 'World' + chalk.red('!');

// compose multiple styles using the chainable API
chalk.blue.bgRed.bold('Hello world!');

// pass in multiple arguments
chalk.blue('Hello', 'World!', 'Foo', 'bar', 'biz', 'baz');

// nest styles
chalk.red('Hello', chalk.underline.bgBlue('world') + '!');

// nest styles of the same type even (color, underline, background)
chalk.green(
  'I am a green line ' +
  chalk.blue.underline.bold('with a blue substring') +
  ' that becomes green again!
);

Easily define your own themes.

```js
var chalk = require('chalk');
var error = chalk.bold.red;
console.log(error('Error!'));
```
Take advantage of console.log [string substitution](http://nodejs.org/docs/latest/api/console.html#console_console_log_data).

```js
var name = 'Sindre';
console.log(chalk.green('Hello %s'), name);
//=> Hello Sindre
```

## API

### chalk.<style>...<style>...(string, [string...])

Example: `chalk.red.bold.underline('Hello', 'world');`

Chain [styles](#styles) and call the last one as a method with a string argument. Order doesn't matter, and later styles take precedent in case of a conflict. This simply means that `Chalk.red.yellow.green` is equivalent to `Chalk.green`.

Multiple arguments will be separated by space.

### chalk.enabled

Color support is automatically detected, but you can override it by setting the `enabled` property. You should however only do this in your own code as it applies globally to all chalk consumers.

If you need to change this in a reusable module create a new instance:

```js
var ctx = new chalk.constructor({enabled: false});
```

### chalk.supportsColor

Detect whether the terminal [supports color](https://github.com/chalk/supports-color). Used internally and handled for you, but exposed for convenience.

Can be overridden by the user with the flags `--color` and `--no-color`. For situations where using `--color` is not possible, add an environment variable `FORCE_COLOR` with any value to force color. Trumps `--no-color`.

### chalk.styles

Exposes the styles as [ANSI escape codes](https://github.com/chalk/ansi-styles).

Generally not useful, but you might need just the `.open` or `.close` escape code if you're mixing externally styled strings with your own.
```js
var chalk = require('chalk');

console.log(chalk.styles.red);
//=> {open: '\u001b[31m', close: '\u001b[39m'}

console.log(chalk.styles.red.open + 'Hello' + chalk.styles.red.close);
```

### chalk.hasColor(string)
Check whether a string [has color](https://github.com/chalk/has-ansi).

### chalk.stripColor(string)
[Strip color](https://github.com/chalk/strip-ansi) from a string.

Can be useful in combination with `.supportsColor` to strip color on externally styled text when it's not supported.

Example:

```js
var chalk = require('chalk');
var styledString = getText();

if (!chalk.supportsColor) {
  styledString = chalk.stripColor(styledString);
}
```

## Styles

### Modifiers
- `reset`
- `bold`
- `dim`
- `italic` *(not widely supported)*
- `underline`
- `inverse`
- `hidden`
- `strikethrough` *(not widely supported)*

### Colors
- `black`
- `red`
- `green`
- `yellow`
- `blue` *(on Windows the bright version is used as normal blue is illegible)*
- `magenta`
- `cyan`
- `white`
- `gray`

### Background colors

- `bgBlack`
- `bgRed`
- `bgGreen`
- `bgYellow`
- `bgBlue`
- `bgMagenta`
- `bgCyan`
- `bgWhite`

## 256-colors

Chalk does not support anything other than the base eight colors, which guarantees it will work on all terminals and systems. Some terminals, specifically `xterm` compliant ones, will support the full range of 8-bit colors. For this the lower level [ansi-256-colors](https://github.com/jbnicolai/ansi-256-colors) package can be used.

## Windows

If you’re on Windows, do yourself a favor and use `[cmder](http://bliker.github.io/cmder/)` instead of `cmd.exe`.

## Related

- [chalk-cli](https://github.com/chalk/chalk-cli) - CLI for this module
- [ansi-styles](https://github.com/chalkansi-styles/) - ANSI escape codes for styling strings in the terminal
- [supports-color](https://github.com/chalk/supports-color/) - Detect whether a terminal supports color
- [strip-ansi](https://github.com/chalk/strip-ansi) - Strip ANSI escape codes
- [has-ansi](https://githubcom/chalk/has-ansi) - Check if a string has ANSI escape codes
- [ansi-regex](https://github.com/chalkansi-regex) - Regular expression for matching ANSI escape codes
- [wrap-ansi](https://github.com/chalk/has-ansi) - Wordwrap a string with ANSI escape codes

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1.143 childprocess 0.5.6

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1.144 childprocess 0.5.9

1.145 chill 0.5.0

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1.146 chill-java 0.5.0
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package com.twitter.chill.java;

import com.esotericsoftware.kryo.serializers.JavaSerializer;
import com.twitter.chill.IKryoRegistrar;
import com.twitter.chill.SingleRegistrar;

import java.text.SimpleDateFormat;

/** This class fails with the Fields serializer.
 * If it is a perf bottleneck, we could write a Kryo serializer
 */
public class SimpleDateFormatSerializer extends JavaSerializer {
    static public IKryoRegistrar registrar() {
        return new SingleRegistrar(SimpleDateFormat.class, new SimpleDateFormatSerializer());
    }
}

1.147 chill-protobuf 0.7.0

1.147.1 Available under license :

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1.148 chmodr 1.0.2

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1.149 chokidar 1.1.0

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> A neat wrapper around node.js fs.watch / fs.watchFile / fsevents.

#### [See what's new in v1.0](https://github.com/paulmillr/chokidar/blob/master/CHANGELOG.md#chokidar-100-7-april-2015)

## Why?

Node.js `fs.watch`:

* Doesn't report filenames on OS X.
* Doesn't report events at all when using editors like Sublime on OS X.
* Often reports events twice.
* Emits most changes as `rename`.
* Has [a lot of other issues](https://github.com/joyent/node/search?q=fs.watch&type=Issues)
* Does not provide an easy way to recursively watch file trees.

Node.js `fs.watchFile`:

* Almost as bad at event handling.
* Also does not provide any recursive watching.
* Results in high CPU utilization.
Chokidar resolves these problems.

Initially made for [brunch](http://brunch.io) (an ultra-swift web app build tool), it is now used in:
- [gulp](https://github.com/gulpjs/gulp/)
- [karma](http://karma-runner.github.io/)
- [PM2](https://github.com/Unitech/PM2)
- [browserify](http://browserify.org/)
- [webpack](http://webpack.github.io/)
- [BrowserSync](http://www.browsersync.io/)
- [Microsoft's Visual Studio Code](https://github.com/microsoft/vscode)
- [many others](https://www.npmjs.org/browse/depended/chokidar/)

It has proven itself in production environments.

## How?
Chokidar does still rely on the Node.js core `fs` module, but when using `fs.watch` and `fs.watchFile` for watching, it normalizes the events it receives, often checking for truth by getting file stats and/or dir contents.

On Mac OS X, chokidar by default uses a native extension exposing the Darwin `FSEvents` API. This provides very efficient recursive watching compared with implementations like `kqueue` available on most *nix platforms. Chokidar still does have to do some work to normalize the events received that way as well.

On other platforms, the `fs.watch`-based implementation is the default, which avoids polling and keeps CPU usage down. Be advised that chokidar will initiate watchers recursively for everything within scope of the paths that have been specified, so be judicious about not wasting system resources by watching much more than needed.

## Getting started
Install with npm:

```bash
npm install chokidar --save
```

Then `require` and use it in your code:

```javascript
var chokidar = require('chokidar');

// One-liner for current directory, ignores .dotfiles
chokidar.watch('.', { ignored: /[\/]\.\/[\/] }).on('all', (event, path) => {
    console.log(event, path);
});
```

```javascript
// Example of a more typical implementation structure:
```
// Initialize watcher.
var watcher = chokidar.watch('file, dir, glob, or array', {
    ignored: /\\|\/,
    persistent: true
});

// Something to use when events are received.
var log = console.log.bind(console);

// Add event listeners.
watcher
  .on('add', (path) => log('File', path, 'has been added'))
  .on('change', (path) => log('File', path, 'has been changed'))
  .on('unlink', (path) => log('File', path, 'has been removed'));

// More possible events.
watcher
  .on('addDir', (path) => log('Directory', path, 'has been added'))
  .on('unlinkDir', (path) => log('Directory', path, 'has been removed'))
  .on('error', (error) => log('Error happened', error))
  .on('ready', () => log('Initial scan complete. Ready for changes'))
  .on('raw', (event, path, details) => {
    log('Raw event info:', event, path, details);
  });

// 'add', 'addDir' and 'change' events also receive stat() results as second
// argument when available: http://nodejs.org/api/fs.html#fs_class_fs_stats
watcher.on('change', (path, stats) => {
    if (stats) console.log('File', path, 'changed size to', stats.size);
});

// Watch new files.
watcher.add('new-file');
watcher.add(['new-file-2', 'new-file-3', '**/other-file*']);

// Get list of actual paths being watched on the filesystem
var watchedPaths = watcher.getWatched();

// Un-watch some files.
watcher.unwatch('new-file*');

// Stop watching.
watcher.close();

// Full list of options. See below for descriptions. (do not use this example)
chokidar.watch('file', {
    persistent: true,
});
```javascript
```chokidar.watch(paths, [options])
```

* `paths` (string or array of strings). Paths to files, dirs to be watched recursively, or glob patterns.
* `options` (object) Options object as defined below:

#### Persistence

* `persistent` (default: `true`). Indicates whether the process should continue to run as long as files are being watched. If set to `false` when using `fsevents` to watch, no more events will be emitted after `ready`, even if the process continues to run.

#### Path filtering

* `ignored` ([anymatch](https://github.com/es128/anymatch)-compatible definition) Defines files/parts to be ignored. The whole relative or absolute path is tested, not just filename. If a function with two arguments is provided, it gets called twice per path - once with a single argument (the path), second time with two arguments (the path and the `fs.Stats` object of that path).
* `ignoreInitial` (default: `false`). If set to `false` then `add`/`addDir` events are also emitted for matching paths while
instantiating the watching as chokidar discovers these file paths (before the `ready` event).
* `followSymlinks` (default: `true`). When `false`, only the
symlinks themselves will be watched for changes instead of following
the link references and bubbling events through the link's path.
* `cwd` (no default). The base directory from which watch `paths` are to be
derived. Paths emitted with events will be relative to this.

#### Performance

* `usePolling` (default: `false`).
Whether to use fs.watchFile (backed by polling), or fs.watch. If polling
leads to high CPU utilization, consider setting this to `false`. It is
typically necessary to **set this to `true` to successfully watch files over
a network***, and it may be necessary to successfully watch files in other
non-standard situations. Setting to `true` explicitly on OS X overrides the
`useFsEvents` default.
* Polling-specific settings (effective when `usePolling: true`)
  * `interval` (default: `100`). Interval of file system polling.
  * `binaryInterval` (default: `300`). Interval of file system
    polling for binary files.
  ![see list of binary extensions](https://github.com/sindresorhus/binary-extensions/blob/master/binary-
  extensions.json)
  * `useFsEvents` (default: `true` on OS X). Whether to use the
    `fs.watch` watching interface if available. When set to `true` explicitly
    and `fswatch` is available this supercedes the `usePolling` setting. When
    set to `false` on OS X, `usePolling: true` becomes the default.
  * `alwaysStat` (default: `false`). If relying upon the
    `fs.Stats` object that may get passed with `add`, `addDir`, and `change` events, set
    this to `true` to ensure it is provided even in cases where it wasn't
    already available from the underlying watch events.
  * `depth` (default: `undefined`). If set, limits how many levels of
    subdirectories will be traversed.
  * `awaitWriteFinish` (default: `false`).
By default, the `add` event will fire when a file first appear on disk, before
the entire file has been written. Furthermore, in some cases some `change`
events will be emitted while the file is being written. In some cases,
especially when watching for large files there will be a need to wait for the
write operation to finish before responding to a file creation or modification.
Setting `awaitWriteFinish` to `true` (or a truthy value) will poll file size,
holding its `add` and `change` events until the size does not change for a
configurable amount of time. The appropriate duration setting is heavily
dependent on the OS and hardware. For accurate detection this parameter should
be relatively high, making file watching much less responsive.
Use with caution.
* `options.awaitWriteFinish` can be set to an object in order to adjust
timing params:
  * `awaitWriteFinish.stabilityThreshold` (default: 2000). Amount of time in
milliseconds for a file size to remain constant before emitting its event.
* `awaitWriteFinish.pollInterval` (default: 100). File size polling interval.

### Errors
* `ignorePermissionErrors` (default: `false`). Indicates whether to watch files that don't have read permissions if possible. If watching fails due to `EPERM` or `EACCES` with this set to `true`, the errors will be suppressed silently.
* `atomic` (default: `true` if `useFsEvents` and `usePolling` are `false`). Automatically filters out artifacts that occur when using editors that use "atomic writes" instead of writing directly to the source file.

### Methods & Events

`chokidar.watch()` produces an instance of `FSWatcher`. Methods of `FSWatcher`:

* `.add(path / paths)`: Add files, directories, or glob patterns for tracking. Takes an array of strings or just one string.
* `.on(event, callback)`: Listen for an FS event. Available events: `add`, `addDir`, `change`, `unlink`, `unlinkDir`, `ready`, `raw`, `error`.
  Additionally `all` is available which gets emitted with the underlying event name and path for every event other than `ready`, `raw`, and `error`.
* `.unwatch(path / paths)`: Stop watching files, directories, or glob patterns. Takes an array of strings or just one string.
* `.close()`: Removes all listeners from watched files.
* `.getWatched()`: Returns an object representing all the paths on the file system being watched by this `FSWatcher` instance. The object's keys are all the directories (using absolute paths unless the `cwd` option was used), and the values are arrays of the names of the items contained in each directory.

## CLI

If you need a CLI interface for your file watching, check out [chokidar-cli](https://github.com/kimmobrunfeldt/chokidar-cli), allowing you to execute a command on each change, or get a stdio stream of change events.

## Install Troubleshooting

* `npm WARN optional dep failed, continuing fsevents@n.n.n`
* This message is normal part of how `npm` handles optional dependencies and is not indicative of a problem. Even if accompanied by other related error messages, Chokidar should function properly.

* `ERR! stack Error: Python executable "python" is v3.4.1, which is not supported by gyp.`
* You should be able to resolve this by installing python 2.7 and running:
  `npm config set python python2.7`

* `gyp ERR! stack Error: not found: make`
* On Mac, install the XCode command-line tools

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### 1.150 clamp 0.6.5

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1.151 ClassMate 1.0.0

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

1.152 cli-cursor 1.0.2

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1.153 cli-width 1.1.0

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1.157 code-point-at 1.0.0

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```bash
$ npm install --save code-point-at
```

## Install

```
var codePointAt = require('code-point-at');
```

```js
codePointAt('');
//=> 128052

codePointAt('abc', 2);
//=> 99
```

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1.158 collectd 5.5.0
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If distribution of object code is made by offering access to copy
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However, linking a "work that uses the Library" with the Library
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Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file
that is part of the Library, the object code for the work may be a
derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be
linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.162 com.cisco.xmp.osgi.cargo-core-api-util
1.0.0

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1.163 combined-stream 1.0.5

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1.166 commander 2.8.1

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# Commander.js

[![Build Status](https://api.travis-ci.org/tj/commander.js.svg)](http://travis-ci.org/tj/commander.js)

The complete solution for [node.js](http://nodejs.org) command-line interfaces, inspired by Ruby's [commander](https://github.com/tj/commander).

[API documentation](http://tj.github.com/commander.js/)
## Installation

$ npm install commander

## Option parsing

Options with commander are defined with the `.option()` method, also serving as documentation for the options. The example below parses args and options from `process.argv`, leaving remaining args as the `program.args` array which were not consumed by options.

```
#!/usr/bin/env node

"\n*/

var program = require('commander');

console.log('you ordered a pizza with:');
if (program.peppers) console.log('  - peppers');
if (program.pineapple) console.log('  - pineapple');
if (program.bbqSauce) console.log('  - bbq');
console.log('  - %s cheese', program.cheese);
```

Short flags may be passed as a single arg, for example `-abc` is equivalent to `-a -b -c`. Multi-word options such as `--template-engine` are camel-cased, becoming `program.templateEngine` etc.

## Coercion

```
function range(val) {
  return val.split(',').map(Number);
}

function list(val) {
return val.split(',');
}

function collect(val, memo) {
    memo.push(val);
    return memo;
}

function increaseVerbosity(v, total) {
    return total + 1;
}

program
    .version('0.0.1')
    .option('-i, --integer <n>', 'An integer argument', parseInt)
    .option('-f, --float <n>', 'A float argument', parseFloat)
    .option('-r, --range <a>..<b>', 'A range', range)
    .option('-l, --list <items>', 'A list', list)
    .option('-o, --optional [value]', 'An optional value')
    .option('-c, --collect [value]', 'A repeatable value', collect, [])
    .option('-v, --verbose', 'A value that can be increased', increaseVerbosity, 0)
    .parse(process.argv);

console.log(' int: %j', program.integer);
console.log(' float: %j', program.float);
console.log(' optional: %j', program.optional);
program.range = program.range || [];
console.log(' range: %j..%j', program.range[0], program.range[1]);
console.log(' list: %j', program.list);
console.log(' collect: %j', program.collect);
console.log(' verbosity: %j', program.verbosity);
console.log(' args: %j', program.args);
```js
## Regular Expression
```js
program
    .version('0.0.1')
    .option('-s --size <size>', 'Pizza size', /^(large|medium|small)$/i, 'medium')
    .option('-d --drink [drink]', 'Drink', /^(coke|pepsi|izze)$/i)
    .parse(process.argv);

console.log(' size: %j', program.size);
console.log(' drink: %j', program.drink);
```js
## Variadic arguments
```js
## Variadic arguments
The last argument of a command can be variadic, and only the last argument. To make an argument variadic you have to append `...` to the argument name. Here is an example:

```js
#!/usr/bin/env node

/**
 * Module dependencies.
 */

var program = require('commander');

program
  .version('0.0.1')
  .command('rmdir <dir> [otherDirs...]')
  .action(function (dir, otherDirs) {
    console.log('rmdir %s', dir);
    if (otherDirs) {
        otherDirs.forEach(function (oDir) {
            console.log('rmdir %s', oDir);
        });
    }
  });

program.parse(process.argv);
```

An `Array` is used for the value of a variadic argument. This applies to `program.args` as well as the argument passed to your action as demonstrated above.

### Specify the argument syntax

```js
#!/usr/bin/env node

var program = require('./');

program
  .version('0.0.1')
  .arguments('<cmd> [env]')
  .action(function (cmd, env) {
    cmdValue = cmd;
    envValue = env;
  });
```
program.parse(process.argv);

if (typeof cmdValue === 'undefined') {
    console.error('no command given!');
    process.exit(1);
}

console.log('command:', cmdValue);
console.log('environment:', envValue || 'no environment given');

## Git-style sub-commands

```
```

When `.command()` is invoked with a description argument, no `.action(callback)` should be called to handle sub-commands, otherwise there will be an error. This tells commander that you're going to use separate executables for sub-commands, much like `git(1)` and other popular tools.

The commander will try to search the executables in the directory of the entry script (like `./examples/pm`) with the name `program-command`, like `pm-install`, `pm-search`.

If the program is designed to be installed globally, make sure the executables have proper modes, like `755`.

#### --harmony

You can enable `--harmony` option in two ways:

* Use `#!/usr/bin/env node --harmony` in the sub-commands scripts. Note some os version don’t support this pattern.
* Use the `--harmony` option when call the command, like `node --harmony examples/pm publish`. The `--harmony` option will be preserved when spawning sub-command process.

#### Automated --help

The help information is auto-generated based on the information commander already knows about your program, so the following `--help` info is for free:

```
$ ./examples/pizza --help
```
Usage: pizza [options]

An application for pizzas ordering

Options:

-h, --help       output usage information
-V, --version    output the version number
-p, --peppers    Add peppers
-P, --pineapple  Add pineapple
-b, --bbq        Add bbq sauce
-c, --cheese <type>  Add the specified type of cheese [marble]
-C, --no-cheese  You do not want any cheese

```js
## Custom help

You can display arbitrary '-h, --help' information
by listening for '--help'. Commander will automatically
exit once you are done so that the remainder of your program
does not execute causing undesired behaviours, for example
in the following executable "stuff" will not output when
'--help' is used.

```
```
console.log('');
});

program.parse(process.argv);

console.log('stuff');
```

Yields the following help output when `node script-name.js -h` or `node script-name.js --help` are run:

```
Usage: custom-help [options]

Options:

  -h, --help     output usage information
  -V, --version  output the version number
  -f, --foo      enable some foo
  -b, --bar      enable some bar
  -B, --baz      enable some baz

Examples:

  $ custom-help --help
  $ custom-help -h

## .outputHelp()

Output help information without exiting.

If you want to display help by default (e.g. if no command was provided), you can use something like:

```
```
var program = require('commander');

program
  .version('0.0.1')
  .command('getstream [url]', 'get stream URL')
  .parse(process.argv);

if (!process.argv.slice(2).length) {
  program.outputHelp();
}
```
## .help()

Output help information and exit immediately.

## Examples

```
var program = require('commander');

program
  .version('0.0.1')
  .option('-C, --chdir <path>', 'change the working directory')
  .option('-c, --config <path>', 'set config path. defaults to ./deploy.conf')
  .option('-T, --no-tests', 'ignore test hook')

program
  .command('setup [env]')
  .description('run setup commands for all envs')
  .option("-s, --setup_mode [mode]", "Which setup mode to use")
  .action(function(env, options){
    var mode = options.setup_mode || "normal";
    env = env || "all";
    console.log('setup for %s env(s) with %s mode', env, mode);
  });

program
  .command('exec <cmd>')
  .alias('ex')
  .description('execute the given remote cmd')
  .option("-e, --exec_mode <mode>", "Which exec mode to use")
  .action(function(cmd, options){
    console.log('exec "%s" using %s mode', cmd, options.exec_mode);
  }).on('--help', function() {
    console.log('  Examples:');
    console.log(  $ deploy exec sequential');
    console.log(  $ deploy exec async');
    console.log();
  });

program
  .command('*')
  .action(function(env){
    console.log('deploying "%s"', env);
  });

program.parse(process.argv);
```
More Demos can be found in the [examples](https://github.com/tj/commander.js/tree/master/examples) directory.

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1.167 commons compress 1.0

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1.187 compress-lzf 1.0.0

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## Credit

Library has been written by Tatu Saloranta (tatu.saloranta@iki.fi).
It was started at Ning, inc., as an official Open Source process used by platform backend, but after initial versions has been developed outside of Ning by supporting community.

Other contributors include:

* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor fixes; these can be found from file "VERSION.txt" in SCM.

### 1.188 compressible 2.0.5

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1.190 config-1.2.1 1.2.1
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1.191 config-chain 1.1.9
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1.192 config-magic 0.9

1.193 configstore 0.3.2

1.194 connect-timeout 1.6.2
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1.195 content-type 1.0.1

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1.196 cookie 0.1.3

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1.198 cookie-signature 1.0.6
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# cookie-signature

Sign and unsign cookies.

### Example

```js
var cookie = require('cookie-signature');

var val = cookie.sign('hello', 'tobiiscool');
val.should.equal('hello.DGDUkGlIkCzPz+C0B064FNgHdEjox7ch8tOBGslZ5QI');

var val = cookie.sign('hello', 'tobiiscool');
cookie.unsign(val, 'tobiiscool').should.equal('hello');
cookie.unsign(val, 'luna').should.be.false;
```

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1.201 crack 0.4.3

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1.202 crc 3.3.0

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1.203 cryptiles 0.2.2

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1.204 cryptiles 2.0.5

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1.206 csurf 1.8.3
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   c) accompany it with the information you received as to where the corresponding source code may be obtained. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form alone.)

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Appendix: How to Apply These Terms to Your New Programs

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possible use to humanity, the best way to achieve this is to make it
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terms.

To do so, attach the following notices to the program. It is safest to
attach them to the start of each source file to most effectively convey
the exclusion of warranty; and each file should have at least the
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<one line to give the program's name and a brief idea of what it does.>
Copyright (C) 19yy  <name of author>

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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[I have snipped the snail mail address of the FSF because it has changed in the past and is likely to change again. The current address should be at http://www.gnu.org/]

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Version 2, June 1991

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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1.212 D3 3.4.8

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1.221 dcjs 1.6.0

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1.222 debug 2.2.0

1.222.1 Available under license:

# debug

tiny node.js debugging utility modelled after node core's debugging technique.

## Installation

```bash
$ npm install debug
```

## Usage

With ‘debug’ you simply invoke the exported function to generate your debug function, passing it a name which will determine if a noop function is returned, or a decorated ‘console.error’, so all of the ‘console’ format string goodies you're used to work fine. A unique color is selected per-function for visibility.

Example _app.js_:

```js
var debug = require('debug')('http')
  , http = require('http')
  , name = 'My App';

// fake app

debug('booting %s', name);

http.createServer(function(req, res){
    debug(req.method + ' ' + req.url);
    res.end('hello
');
}).listen(3000, function(){
    debug('listening');
});

// fake worker of some kind

require('./worker');
```

Example _worker.js_:

```js
var debug = require('debug')('worker');
```

```js
var debug = require('debug')('worker');
```
setInterval(function(){
    debug('doing some work');
}, 1000);
***

The __DEBUG__ environment variable is then used to enable these based on space or comma-delimited names. Here are some examples:

![debug http and worker](http://f.cl.ly/items/18471z1H402O24072r1J/Screenshot.png)

![debug worker](http://f.cl.ly/items/1X413v1a3M0d3C2c1E0i/Screenshot.png)

#### Windows note

On Windows the environment variable is set using the `set` command.

```cmd
set DEBUG=*,-not_this
```

Then, run the program to be debugged as usual.

## Millisecond diff

When actively developing an application it can be useful to see when the time spent between one `debug()` call and the next. Suppose for example you invoke `debug()` before requesting a resource, and after as well, the "+NNNms" will show you how much time was spent between calls.

![](http://f.cl.ly/items/2i3h1d3t121M2Z1A3Q0N/Screenshot.png)

When stdout is not a TTY, `Date#toUTCString()` is used, making it more useful for logging the debug information as shown below:

![](http://f.cl.ly/items/112H3i0e0o0P0a2Q2r11/Screenshot.png)

## Conventions

If you're using this in one or more of your libraries, you _should_ use the name of your library so that developers may toggle debugging as desired without guessing names. If you have more than one debuggers you _should_ prefix them with your library name and use ":" to separate features. For example "bodyParser" from Connect would then be "connect:bodyParser".

## Wildcards

The `*` character may be used as a wildcard. Suppose for example your library has debuggers named "connect:bodyParser", "connect:compress", "connect:session", instead of listing all three with `DEBUG=connect:bodyParser,connect:compress,connect:session`, you may simply do `DEBUG=connect:*`, or to run everything using this module simply use `DEBUG=*`.
You can also exclude specific debuggers by prefixing them with a ":-" character. For example, `DEBUG=*,.-connect:*` would include all debuggers except those starting with "connect:.

## Browser support

Debug works in the browser as well, currently persisted by `localStorage`. Consider the situation shown below where you have `worker:a` and `worker:b`, and wish to debug both. Somewhere in the code on your page, include:

```js
window.myDebug = require("debug");
```

("debug" is a global object in the browser so we give this object a different name.) When your page is open in the browser, type the following in the console:

```js
myDebug.enable("worker:*")
```

Refresh the page. Debug output will continue to be sent to the console until it is disabled by typing `myDebug.disable()` in the console.

```js
a = debug('worker:a');
b = debug('worker:b');

setInterval(function(){
a('doing some work');
}, 1000);

setInterval(function(){
b('doing some work');
}, 1200);
```

#### Web Inspector Colors

Colors are also enabled on "Web Inspectors" that understand the "%c" formatting option. These are WebKit web inspectors, Firefox ([since version 31](https://hacks.mozilla.org/2014/05/editable-box-model-multiple-selection-sublime-text-keys-much-more-firefox-developer-tools-episode-31/)) and the Firebug plugin for Firefox (any version).

Colored output looks something like:

![](https://cloud.githubusercontent.com/assets/71256/3139768/b98c5fd8-e8ef-11e3-862a-f7253b6f47c6.png)
### stderr vs stdout

You can set an alternative logging method per-namespace by overriding the `log` method on a per-namespace or globally:

Example _stdout.js_: 

```js
var debug = require('debug');
var error = debug('app:error');

// by default stderr is used
error('goes to stderr!');

var log = debug('app:log');
// set this namespace to log via console.log
log.log = console.log.bind(console); // don't forget to bind to console!
log('goes to stdout!');
error('still goes to stderr!');

// set all output to go via console.info
// overrides all per-namespace log settings
debug.log = console.info.bind(console);
error('now goes to stdout via console.info');
log('still goes to stdout, but via console.info now');
```

### Save debug output to a file

You can save all debug statements to a file by piping them.

Example:

```bash
$ DEBUG_FD=3 node your-app.js 3> whatever.log
```

## Authors

- TJ Holowaychuk
- Nathan Rajlich

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1.223 debug 0.7.4

1.223.1 Available under license:

```javascript
# debug

tiny node.js debugging utility modelled after node core's debugging technique.

## Installation

```bash
$ npm install debug
```

## Usage

With `debug` you simply invoke the exported function to generate your debug function, passing it a name which will determine if a noop function is returned, or a decorated `console.error`, so all of the `console` format string goodies you're used to work fine. A unique color is selected per-function for visibility.

Example _app.js_:

```javascript
var debug = require('debug')('http')
.http = require('http')
.name = 'My App';

// fake app
```
debug('booting %s', name);

http.createServer(function(req, res){
    debug(req.method + ' ' + req.url);
    res.end('hello
');
}).listen(3000, function(){
    debug('listening');
});

// fake worker of some kind

require('./worker');
```
Example _worker.js_: 

```js
... js
var debug = require('debug')('worker');

setInterval(function(){
    debug('doing some work');
}, 1000);
```

The __DEBUG__ environment variable is then used to enable these based on space or comma-delimited names. Here are some examples:

![](http://f.cl.ly/items/18471z1H402O24072r1J/Screenshot.png)

![](http://f.cl.ly/items/1X413v1a3M0d3C2c1E0i/Screenshot.png)

## Millisecond diff

When actively developing an application it can be useful to see when the time spent between one `debug()` call and the next. Suppose for example you invoke `debug()` before requesting a resource, and after as well, the "+NNNms" will show you how much time was spent between calls.

![](http://f.cl.ly/items/2i3h1d3t121M2Z1A3Q0N/Screenshot.png)

When stderr is not a TTY, `Date#toUTCString()` is used, making it more useful for logging the debug information as shown below:

_(NOTE: Debug now uses stderr instead of stdout, so the correct shell command for this example is actually `DEBUG=* node example/worker 2> out &`)_.

![](http://f.cl.ly/items/112H3i0e0o0P0a2Q2r1l/Screenshot.png)

## Conventions

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## Wildcards

The "*" character may be used as a wildcard. Suppose for example your library has debuggers named "connect:bodyParser", "connect:compress", "connect:session", instead of listing all three with `DEBUG=connect:bodyParser,connect.compress,connect:session`, you may simply do `DEBUG=connect:*`, or to run everything using this module simply use `DEBUG=*`.

You can also exclude specific debuggers by prefixing them with a "-" character. For example, `DEBUG=* -connect:*` would include all debuggers except those starting with "connect:"

## Browser support

Debug works in the browser as well, currently persisted by `localStorage`. For example if you have `worker:a` and `worker:b` as shown below, and wish to debug both type `debug.enable('worker:*')` in the console and refresh the page, this will remain until you disable with `debug.disable()`.

```js
a = debug('worker:a');
b = debug('worker:b');

setInterval(function(){
a('doing some work');
}, 1000);

setInterval(function(){
a('doing some work');
}, 1200);
```

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1.230 delegates 0.1.0

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```
# delegates

Node method and accessor delegation utility.

## Installation

```sh
$ npm install delegates
```

## Example

```js
var delegate = require('delegates');

...

delegate(proto, 'request')
  .method('acceptsLanguages')
  .method('acceptsEncodings')
  .method('acceptsCharsets')
  .method('accepts')
  .method('is')
  .access('querystring')
  .access('idempotent')
  .access('socket')
  .access('length')
  .access('query')
  .access('search')
  .access('status')
```
# API

## Delegate(proto, prop)

Creates a delegator instance used to configure using the `prop` on the given `proto` object. (which is usually a prototype)

## Delegate#method(name)

Allows the given method `name` to be accessed on the host.

## Delegate#getter(name)

Creates a "getter" for the property with the given `name` on the delegated object.

## Delegate#setter(name)

Creates a "setter" for the property with the given `name` on the delegated object.

## Delegate#access(name)

Creates an "accessor" (ie: both getter and setter) for the property with the given `name` on the delegated object.

## Delegate#fluent(name)

A unique type of "accessor" that works for a "fluent" API. When called as a getter, the method returns the expected value. However, if the method is called with a value, it will return itself so it can be chained. For example:

```js
```
delegate(proto, 'request')
  .fluent('query')

// getter
var q = request.query();

// setter (chainable)
request
  .query({ a: 1 })
  .query({ b: 2 });

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# Destroy

```
var destroy = require('destroy')

var fs = require('fs')
var stream = fs.createReadStream('package.json')
destroy(stream)
```
Open Source Used In Cisco Tetration Analytics 3.1.1

1.234 device-mapper-multipath-libs 0.4.9

:56.el6

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1.235 device-two-factor 2.0.1

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1.236 devise 3.5.2

1.237 devise-token-authenticatable 0.4.7

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1.238 devise_invalidatable 0.0.2

1.239 dhcp 4.1.1
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1.244 druid 0.11.0-tet-2

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This product contains code adapted from Apache Hadoop
import json
import requests

# tested with python 3.6 and requests 2.13.0

if len(sys.argv) != 2:
    sys.stderr.write('usage: program <milestone-number>

    Provide the github milestone number, not name. (e.g., 19 instead of 0.10.1)

    sys.exit(1)

milestone_num = sys.argv[1]

done = False
page_counter = 1
contributors = set()

# Get all users who created a closed issue or merged PR for a given milestone
while not done:
    resp = requests.get("https://api.github.com/repos/druid-io/druid/issues?milestone=%s&state=closed&page=%s" %
                        (milestone_num, page_counter))
    pagination_link = resp.headers["Link"]

    # last page doesn't have a "next"
    if "rel=""not in pagination_link:
        done = True
    else:
        page_counter += 1

issues = json.loads(resp.text)
for issue in issues:
    contributor_name = issue["user"]["login"]
    contributors.add(contributor_name)

# doesn't work as-is for python2, the contributor names are "unicode" instead of "str" in python2
contributors = sorted(contributors, key=str.lower)
for contributor_name in contributors:
    print('@%s' % contributor_name)

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1.257 elephant-bird-elephant-bird 4.5

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1.259 end-of-stream 1.1.0

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1.260 end-of-stream 0.1.5

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# end-of-stream

A node module that calls a callback when a readable/writable/duplex stream has completed or failed.

npm install end-of-stream

## Usage

Simply pass a stream and a callback to the `eos`.
Both legacy streams and streams2 are supported.

```js
var eos = require('end-of-stream');

eos(readableStream, function(err) {
    if (err) return console.log('stream had an error or closed early');
    console.log('stream has ended');
});

eos(writableStream, function(err) {
    if (err) return console.log('stream had an error or closed early');
    console.log('stream has finished');
});

eos(duplexStream, function(err) {
    if (err) return console.log('stream had an error or closed early');
    console.log('stream has ended and finished');
});

eos(duplexStream, {readable:false}, function(err) {
    if (err) return console.log('stream had an error or closed early');
    console.log('stream has ended but might still be writable');
});

eos(duplexStream, {writable:false}, function(err) {
    if (err) return console.log('stream had an error or closed early');
    console.log('stream has ended but might still be readable');
});

eos(readableStream, {error:false}, function(err) {
    // do not treat emit('error', err) as a end-of-stream
});
```
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### 1.261 error-ex 1.3.0

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1.264 escape-string-regexp 1.0.3
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# escape-string-regexp ![Build Status](https://travis-ci.org/sindresorhus/escape-string-regexp.svg?branch=master)

> Escape RegExp special characters

```sh

```

```
```
$ npm install --save escape-string-regexp
```js
## Usage
```
1.266 etcd-client 0.33

1.267 eventmachine 1.0.7

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1.278 factory_girl_rails 4.4.1

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1.279 faker 1.4.3

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1.280 fancy-log 1.1.0

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1.281 faraday 0.9.2

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1.282 ffi 1.9.10

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 */

#!/bin/sh
# Guess values for system-dependent variables and create Makefiles.
# Generated by GNU Autoconf 2.68 for libffi 3.0.10.
#
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## M4sh Initialization. ##
## ------------------ ##
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 ffittarget.h - Copyright (c) 1996-2003 Red Hat, Inc.
 Target configuration macros for Motorola 68K.

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m68k Foreign Function Interface

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Cloned from raw_api.c

Raw_api.c author: Kresten Krab Thorup <krab@gnu.org>
Java_raw_api.c author: Hans-J. Boehm <hboehm@hpl.hp.com>

$Id$

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1.284 figures 1.4.0

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filename-regex 2.0.0

Available under license:

> Regular expression for matching file names, with or without extension.

## Install with npm

```bash
npm i filename-regex --save
```

## Usage

```js
var regex = require('filename-regex');

'a/b/c/d.min.js'.match(regex());
//=> match[0] = 'd.min.js'

'a/b/c/.dotfile'.match(regex());
//=> match[0] = '.dotfile'
```

## Run tests

Install dev dependencies:

```bash
npm i -d && npm test
```

## Contributing

Pull requests and stars are always welcome. For bugs and feature requests, [please create an issue](https://github.com/regexps/filename-regex/issues)

## Author

**Jon Schlinkert**

+ [github/jonschlinkert](https://github.com/jonschlinkert)
1.286 finalhandler 0.4.0

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1.287 find-index 0.1.1

1.287.1 Available under license :

# find-index

finds an item in an array matching a predicate function, and returns its index
fast both when `thisArg` is used and also when it isn't: [jsPerf](http://jsperf.com/array-prototype-findindex-shims)

```bash
npm install find-index
```

```js
findIndex = require('find-index')
findLastIndex = require('find-index/last')
```

**findIndex(array, callback[, thisArg])**

**findLastIndex(array, callback[, thisArg])**

**Parameters:**

- **array**
  - The array to operate on.
- **callback**
  - Function to execute on each value in the array, taking three arguments:
    - **element**
      - The current element being processed in the array.
    - **index**
      - The index of the current element being processed in the array.
    - **array**
      - The array findIndex was called upon.
- **thisArg**
  - Object to use as this when executing callback.

Based on [array-findindex](https://www.npmjs.org/package/array-findindex)

### 1.288 find-up 1.1.0

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1.291 font-awesome-rails 4.4.0

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1.292 for-in 0.1.4

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1.298 fpm 1.3.3

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If you have contributed (bug reports, feature requests, help in IRC, blog posts, code, etc) and aren't listed here, please let me know if you wish to be added!

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1.300 fs-write-stream-atomic 1.0.5

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1.305 generate-function 2.0.0
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```
# generate-function

Module that helps you write generated functions in Node
```

```js
var genfun = require('generate-function')

var addNumber = function(val) {
  var fn = genfun()
  ('function add(n) {
    (return n + %d, val) // supports format strings to insert values
  ()

  return fn.toFunction() // will compile the function
}

var add2 = addNumber(2)

console.log('1+2=', add2(1))
console.log(add2.toString()) // prints the generated function
```

If you need to close over variables in your generated function pass them to `toFunction(scope)`

```js
```
var multiply = function(a, b) {
  return a * b
}

var addAndMultiplyNumber = function(val) {
  var fn = genfun()
  ('function(n) {
    (if (typeof n !== "number") { // ending a line with { will indent the source
      (throw new Error("argument should be a number"))
    }')
    ('var result = multiply(%d, n+%d)', val, val)
    ('return result')
    ('}()

  // use fn.toString() if you want to see the generated source

  return fn.toFunction({
    multiply: multiply
  })
}

var addAndMultiply2 = addAndMultiplyNumber(2)

console.log('(3 + 2) * 2 =', addAndMultiply2(3))
```

## Related
See [generate-object-property](https://github.com/mafintosh/generate-object-property) if you need to safely generate code that can be used to reference an object property

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1.306 generate-object-property 1.2.0

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1.307 get-stdin 4.0.1

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```bash
# get-stdin ![Build Status](https://travis-ci.org/sindresorhus/get-stdin.svg?branch=master)
```

> Easier stdin

```bash
```sh
```

```

```js
// example.js
```

```js
var stdin = require('get-stdin');
```

```js
stdin(function (data) {
    console.log(data);
    //=> unicorns
});
```

```sh
```

```sh
```

```sh
```

```sh
```
## API

### stdin(callback)
Get `stdin` as a string.

### stdin.buffer(callback)
Get `stdin` as a buffer.

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### 1.308 giflib 4.1.6 :ICS

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1.310 glob 3.2.11

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{
    "author": "Isaac Z. Schlueter <i@izs.me> (http://blog.izs.me)/",
    "name": "glob",
    "description": "a little globber",
    "version": "5.0.14",
    "repository": {
        "type": "git",
        "url": "git://github.com/isaacs/node-glob.git"
    },
    "main": "glob.js",
    "files": [
        "glob.js",
        "sync.js",
        "common.js"
    ],
    "dependencies": {
        "inflight": "^1.0.4",
        "inherits": "2",
        "minimatch": "^2.0.1",
        "once": "^1.3.0",
        "path-is-absolute": "^1.0.0"
    },
    "devDependencies": {
        "mkdirp": "0",
        "rimraf": "^2.2.8",
        "tap": "^1.1.4",
        "tick": "0.0.6"
    },
    "scripts": {
        "prepublish": "npm run benchclean",
        "profclean": "rm -f v8.log profile.txt",
        "test": "tap test/*.js --cov",
        "test-regen": "npm run profclean && TEST_REGEN=1 node test/00-setup.js",
        "bench": "bash benchmark.sh",
        "prof": "bash prof.sh && cat profile.txt",
        "benchclean": "node benchclean.js"
    },
    "license": "ISC"
}
```
1.312 glob-base 0.3.0

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1.318 glog 0.3.3

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encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means
all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.
If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the
copyright notice for the Library among them, as well as a reference
directing the user to the copy of this License. Also, you must do one
of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
Library. A suitable mechanism is one that (1) uses at run time a
copy of the library already present on the user's computer system,
rather than copying library functions into the executable, and (2)
will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
specified in Subsection 6a, above, for a charge no more
than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

e) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for
reproducing the executable from it. However, as a special exception,
the materials to be distributed need not include anything that is
normally distributed (in either source or binary form) with the major
components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
the executable.

It may happen that this requirement contradicts the license
restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
distribute.

7. You may place library facilities that are a work based on the
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facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
Sections above.

b) Give prominent notice with the combined library of the fact
that part of it is a work based on the Library, and explaining
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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

This license, the Library General Public License, applies to some
specially designated Free Software Foundation software, and to any other libraries whose authors decide to use it. You can use it for your libraries, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide complete object files to the recipients so that they can relink them with the library, after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

Also, for each distributor's protection, we want to make certain that everyone understands that there is no warranty for this free library. If the library is modified by someone else and passed on, we want its recipients to know that what they have is not the original version, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.
The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work
which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification").

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library’s complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses
the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of
the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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lz4_encoder.h,lz4hc.h,lz4hc.c,lz4hc_encoder.h},

/*
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1.341 HAPROXY 1.5.14

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Historically, haproxy has been covered by GPL version 2. However, an issue appeared in GPL which will prevent external non-GPL code from being built using the headers provided with haproxy. My long-term goal is to build a core system able to load external modules to support specific application protocols.

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### 1.342 har-validator 1.8.0

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```

# HAR Validator [[version][npm-version]][npm-url] [[License][npm-license]][license-url]

Extremely fast HTTP Archive ([HAR](http://www.softwareishard.com/blog/har-12-spec/)) validator using JSON Schema.

[[Build Status][travis-image]][travis-url]
[[Downloads][npm-downloads]][npm-url]
[[Code Climate][codeclimate-quality]][codeclimate-url]
[[Coverage Status][codeclimate-coverage]][codeclimate-url]
[[Dependencies][david-image]][david-url]

## Install

```
```

```
```shell

# to use in cli

```bash

npm install --global har-validator

# to use as a module

```bash

npm install --save har-validator

```bash

## Usage

```
```

```bash

Usage: har-validator [options] <files ...>

Options:

-h, --help output usage information
-V, --version output the version number
-s, --schema [name] validate schema name (log, request, response, etc ...)

```

```

#### Example
```
  shell
har-validator har.json

har-validator --schema request request.json
```

## API

### Validate(data [, callback])

Returns `true` or `false`.

- **data**: `Object` *(Required)*
  a full [HAR](http://www.softwareishard.com/blog/har-12-spec/) object

- **callback**: `Function`
  gets two arguments (err, valid)

```js
var HAR = require('./har.json');
var validate = require('har-validator');

validate(HAR, function (e, valid) {
  if (e) console.log(e.errors)

  if (valid) console.log('horray!');
});
```

### Validate.log(data [, callback])

Returns `true` or `false`.

- **data**: `Object` *(Required)*
  a [log](http://www.softwareishard.com/blog/har-12-spec/#log) object

- **callback**: `Function`
  gets two arguments (err, valid)

```js
var validate = require('har-validator');

validate.log(data, function (e, valid) {
  if (e) console.log(e.errors)

  if (valid) console.log('horray!');
});
```
### Validate.cache(data [, callback])

Returns `true` or `false`.

- **data**: `Object` *(Required)*
a [cache](http://www.softwareishard.com/blog/har-12-spec/#cache) object

- **callback**: `Function`
gets two arguments (err, valid)

```js
var validate = require('har-validator');

validate.cache(data, function (e, valid) {
  if (e) console.log(e.errors)
});
```

### Validate.cacheEntry(data [, callback])

Returns `true` or `false`.

- **data**: `Object` *(Required)*
a ["beforeRequest" or "afterRequest"](http://www.softwareishard.com/blog/har-12-spec/#cache) objects

- **callback**: `Function`
gets two arguments (err, valid)

```js
var validate = require('har-validator');

validate.cacheEntry(data, function (e, valid) {
  if (e) console.log(e.errors)
});
```

### Validate.content(data [, callback])

Returns `true` or `false`.

- **data**: `Object` *(Required)*
a [content](http://www.softwareishard.com/blog/har-12-spec/#content) object

- **callback**: `Function`
gets two arguments (err, valid)

```js
var validate = require('har-validator');

validate.content(data, function (e, valid) {
  if (e) console.log(e.errors)
});
```
validate.content(data, function (e, valid) {
  if (e) console.log(e.errors)
});
```

### Validate.cookie(data [, callback])
Returns ‘true’ or ‘false’.

- **data**: `Object` *(Required)*
a [cookie](http://www.softwareishard.com/blog/har-12-spec/#cookies) object

- **callback**: `Function`
  gets two arguments (err, valid)

```js
var validate = require('har-validator');

validate.cookie(data, function (e, valid) {
  if (e) console.log(e.errors)
});
```

### Validate.creator(data [, callback])
Returns ‘true’ or ‘false’.

- **data**: `Object` *(Required)*
a [creator](http://www.softwareishard.com/blog/har-12-spec/#creator) object

- **callback**: `Function`
  gets two arguments (err, valid)

```js
var validate = require('har-validator');

validate.creator(data, function (e, valid) {
  if (e) console.log(e.errors)
});
```

### Validate.entry(data [, callback])
Returns ‘true’ or ‘false’.

- **data**: `Object` *(Required)*
an [entry](http://www.softwareishard.com/blog/har-12-spec/#entries) object
callback**: `Function`
gets two arguments (err, valid)

```js
var validate = require('har-validator');

validate.entry(data, function (e, valid) {
    if (e) console.log(e.errors)
};
```

### Validate.log(data [, callback])
alias of [*Validate(data [, callback])*](#validate-data-callback-)

### Validate.page(data [, callback])
Returns `true` or `false`.

- **data***: `Object` *(Required)*
  a [page](http://www.softwareishard.com/blog/har-12-spec/#pages) object

- **callback***: `Function`
  gets two arguments (err, valid)

```js
var validate = require('har-validator');

validate.page(data, function (e, valid) {
    if (e) console.log(e.errors)
};
```

### Validate.pageTimings(data [, callback])
Returns `true` or `false`.

- **data***: `Object` *(Required)*
  a [pageTimings](http://www.softwareishard.com/blog/har-12-spec/#pageTimings) object

- **callback***: `Function`
  gets two arguments (err, valid)

```js
var validate = require('har-validator');

validate.pageTimings(data, function (e, valid) {
```
```js
if (e) console.log(e.errors)
}
```
gets two arguments (err, valid)

```js
var validate = require('har-validator');

validate.request(data, function (e, valid) {
  if (e) console.log(e.errors)
};
```

### Validate.response(data [, callback])

Returns `true` or `false`.

- **data**: `Object` *(Required)*
  a [response](http://www.softwareishard.com/blog/har-12-spec/#response) object

- **callback**: `Function`
  gets two arguments (err, valid)

```js
var validate = require('har-validator');

validate.cacheEntry(data, function (e, valid) {
  if (e) console.log(e.errors)
});
```

### Validate.timings(data [, callback])

Returns `true` or `false`.

- **data**: `Object` *(Required)*
  a [timings](http://www.softwareishard.com/blog/har-12-spec/#timings) object

- **callback**: `Function`
  gets two arguments (err, valid)

```js
var validate = require('har-validator');

validate.timings(data, function (e, valid) {
  if (e) console.log(e.errors)
});
```

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1.343 har-validator 1.8.0

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1.344 has-ansi 2.0.0

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# has-ansi [![Build Status](https://travis-ci.org/sindresorhus/has-ansi.svg?branch=master)](https://travis-ci.org/sindresorhus/has-ansi)

> Check if a string has [ANSI escape codes](http://en.wikipedia.org/wiki/ANSI_escape_code)

```javascript
## Install

```

```javascript
$ npm install --save has-ansi
```

```javascript
## Usage

```

```javascript
```

```javascript
### Usage

```javascript
```

```javascript
```
## Related

- [has-ansi-cli](https://github.com/sindresorhus/has-ansi-cli) - CLI for this module
- [strip-ansi](https://github.com/sindresorhus/strip-ansi) - Strip ANSI escape codes
- [ansi-regex](https://github.com/sindresorhus/ansi-regex) - Regular expression for matching ANSI escape codes
- [chalk](https://github.com/sindresorhus/chalk) - Terminal string styling done right

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1.349 hawk 2.3.1
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1.351 hbase 0.99.1234 :1

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

*cvt - IEEE floating point formatting routines.
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*

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* httpd@ncsa.uiuc.edu
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```json
{
    "author": "Isaac Z. Schlueter <i@izs.me> (http://blog.izs.me)/",
    "name": "ini",
    "description": "An ini encoder/decoder for node",
    "version": "1.3.4",
    "repository": {
        "type": "git",
        "url": "git://github.com/isaacs/ini.git"
    },
    "main": "ini.js",
    "scripts": {
        "test": "tap test/*/js"
    },
    "engines": {
        "node": "*
    },
    "dependencies": {}
}
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"devDependencies": {
    "tap": "^1.2.0"
},

"license": "ISC",
"files": ["ini.js"
1.386 inquirer.js 0.10.0
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1.394 is-absolute 0.1.7

1.394.1 Available under license:

```
# is-absolute

> Return true if a file path is absolute.

Based on the `isAbsolute` utility method in [express](https://github.com/visionmedia/express).

```
```
## Usage
```
```js
var isAbsolute = require('is-absolute');
console.log(isAbsolute('a/b/c.js'));
//=> 'false';
```  
## Running tests
Install dev dependencies.
```
bash
npm i -d && npm test
```  
## Contributing
Pull requests and stars are always welcome. For bugs and feature requests, [please create an issue](https://github.com/jonschlinkert/is-absolute/issues)

## Other projects
* [is-relative](https://github.com/jonschlinkert/is-relative): Returns `true` if the path appears to be relative.
* [is-dotfile](https://github.com/regexps/is-dotfile): Return true if a file path is (or has) a dotfile.
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* [cwd](https://github.com/jonschlinkert/cwd): Node.js util for easily getting the current working directory of a project based on package.json or the given path.
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1.396 is-binary-path 1.0.1
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# is-binary-path [![Build Status](https://travis-ci.org/sindresorhus/is-binary-path.svg?branch=master)](https://travis-ci.org/sindresorhus/is-binary-path)

>` Check if a filepath is a binary file

```javascript
var isBinaryPath = require('is-binary-path');
```

## Install

```bash
$ npm install --save is-binary-path
```

## Usage

```javascript
```
isBinaryPath('src/unicorn.png');
//=> true

isBinaryPath('src/unicorn.txt');
//=> false

## Related
- ['binary-extensions'](https://github.com/sindresorhus/binary-extensions) - List of binary file extensions
- ['is-text-path'](https://github.com/sindresorhus/is-text-path) - Check if a filepath is a text file

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1.398 is-dotfile 1.0.2

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1.399 is-equal-shallow 0.1.3

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1.401 is-finite 1.0.1
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# is-finite ![Build Status](https://travis-ci.org/sindresorhus/is-finite.svg?branch=master)

> ES6 ['Number.isFinite'](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Number/isFinite) ponyfill

> Ponyfill: A polyfill that doesn't overwrite the native method

```sh
$ npm install --save is-finite
```

Open Source Used In Cisco Tetration Analytics 3.1.1
## Usage

```js
var numIsFinite = require('is-finite');

numIsFinite(4);
//=> true

numIsFinite(Infinity);
//=> false
```

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### 1.402 is-fullwidth-code-point 1.0.0

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> Check if the character represented by a given [Unicode code point](https://en.wikipedia.org/wiki/Code_point) is [fullwidth](https://en.wikipedia.org/wiki/Halfwidth_and_fullwidth_forms)

## Install

```bash
$ npm install --save is-fullwidth-code-point
```

## Usage

```js
var isFullwidthCodePoint = require('is-fullwidth-code-point');

isFullwidthCodePoint('').codePointAt();
//=> true

isFullwidthCodePoint('a'.codePointAt());
//=> false
```
## API

### isFullwidthCodePoint(input)

#### input

Type: `number`


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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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It is currently developed by a community of developers, as well as supported
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### 1.421 jackson-core-asl 1.9.11

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether
it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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1.422 jackson-databind 2.2.2

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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Version 2.1, February 1999

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Although the Lesser General Public License is Less protective of the users’ freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2)
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1.426 jasmine 2.1.1

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1.427 jasminewd 1.1.0

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1.429 jasper-compiler 5.5.23
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1.430 jasper-runtime 5.5.23

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 *
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 *
 * <ol>
 * <li>to take a persistent snapshot of an Attributes object
 * in a {@link org.xml.sax.ContentHandler#startElement startElement} event; or</li>
 * <li>to construct or modify an Attributes object in a SAX2 driver or filter.</li>
 * </ol>
 *
 * This class replaces the now-deprecated SAX1 {@link
 * org.xml.sax.helpers.AttributeListImpl AttributeListImpl} interface rather than the deprecated {@link org.xml.sax.AttributeList
 * AttributeList} interface, it also includes a much more efficient
* implementation using a single array rather than a set of Vectors.</p>
* 
* @since JAXB1.0
* @since SAX 2.0
* @author David Megginson
* @version 2.0.1 (sax2r2)
*/

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 */
package com.sun.jersey.api.client;

import java.io.IOException;
import java.io.OutputStream;

/**
 * A commiting output stream that commits before
* the first byte is written to the adapted [ @link OutputStream ].
* <p>
* This class may be overridden to provide the commit functionality.
* 
* @author Paul.Sandoz@Sun.Com
* /

public abstract class CommittingOutputStream extends OutputStream {

    private OutputStream o;
    private boolean isCommitted;

    /**
     * Construct a new instance.
     * <p>
     * The method [ @link #getOutputStream() ] MUST be overridden
     * to return an output stream.
     */
    public CommittingOutputStream() {
    }

    /**
     * Construct a new instance with an output stream to adapt.
     * 
     * @param o the adapted output stream.
     * @throws IllegalArgumentException if <code>o</code> is null.
     */
    public CommittingOutputStream(OutputStream o) {
        if (o == null)
            throw new IllegalArgumentException();
        this.o = o;
    }

    @Override
    public void write(byte b[]) throws IOException {
        commitWrite();
        o.write(b);
    }

    @Override
    public void write(byte b[], int off, int len) throws IOException {
        commitWrite();
        o.write(b, off, len);
    }

    public void write(int b) throws IOException {
        commitWrite;
    }
}
private void commitWrite() throws IOException {
    if (!isCommitted) {
        isCommitted = true;
        commit();

        if (o == null)
            o = getOutputStream();
    }
}

/**
 * Get the adapted output stream.
 * <p>
 * This method MUST be overridden if the empty constructor is
 * utilized to construct an instance of this class.
 * *
 * @return the adapted output stream.
 * @throws java.io.IOException
 */
protected OutputStream getOutputStream() throws IOException {
    throw new IllegalStateException();
}

/**
 * Perform the commit functionality.
 * *
 * @throws java.io.IOException
 */
protected abstract void commit() throws IOException;

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package com.sun.jersey.client.impl;

import com.sun.jersey.api.client.ClientRequest;
import com.sun.jersey.api.client.ClientRequestAdapter;
import com.sun.jersey.core.header.OutBoundHeaders;

import javax.ws.rs.core.MultivaluedMap;
import java.io.IOException;
import java.io.OutputStream;
import java.net.URI;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

public final class ClientRequestImpl extends ClientRequest implements ClientRequestAdapter {
    private Map<String, Object> properties;

    private URI uri;

    private String method;

    private Object entity;

    private final MultivaluedMap<String, Object> metadata;

    private ClientRequestAdapter adapter;

    public ClientRequestImpl(URI uri, String method) {
        this(uri, method, null, null);
    }

    public ClientRequestImpl(URI uri, String method, Object entity) {
        this(uri, method, entity, null);
    }

    public ClientRequestImpl(URI uri, String method, Object entity, MultivaluedMap<String, Object> metadata) {
        this.uri = uri;
        this.method = method;
        this.entity = entity;
        this.metadata = (metadata != null) ? metadata : new OutBoundHeaders();
        this.adapter = this;
    }

    public Map<String, Object> getProperties() {
        if (properties == null)
            properties = new HashMap<String, Object>();
        return properties;
    }

    public void setProperties(Map<String, Object> properties) {
        this.properties = properties;
    }

    public URI getURI() {
        return uri;
    }
}
public void setURI(URI uri) {
    this.uri = uri;
}

public String getMethod() {
    return method;
}

public void setMethod(String method) {
    this.method = method;
}

public Object getEntity() {
    return entity;
}

public void setEntity(Object entity) {
    this.entity = entity;
}

public MultivaluedMap<String, Object> getMetadata() {
    return getHeaders();
}

public MultivaluedMap<String, Object> getHeaders() {
    return metadata;
}

public ClientRequestAdapter getAdapter() {
    return adapter;
}

public void setAdapter(ClientRequestAdapter adapter) {
    this.adapter = (adapter != null) ? adapter : this;
}

@Override
public ClientRequest clone() {
    return new ClientRequestImpl(this.uri, this.method,
    this.entity, clone(this.metadata));
}

private static MultivaluedMap<String, Object> clone(MultivaluedMap<String, Object> md) {
    MultivaluedMap<String, Object> clone = new OutBoundHeaders();
    for (Map.Entry<String, List<Object>> e : md.entrySet()) {
        clone.put(e.getKey(), new ArrayList<Object>(e.getValue()));
    }
}
return clone;
}

// ClientRequestAdapter

custom StringBuffer
        public OutputStream adapt(ClientRequest request, OutputStream out) throws IOException {
            return out;
        }
    }

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package com.sun.ws.rs.ext;

import com.sun.jersey.core.spi.factory.AbstractRuntimeDelegate;
import javax.ws.rs.core.Application;
import javax.ws.rs.ext.RuntimeDelegate;

/**
 * A default client-based and hardcoded implementation of
 * {@link RuntimeDelegate} that will be instantiated if all look up mechanisms
 * fail to find an instance.
 */

public class RuntimeDelegateImpl extends AbstractRuntimeDelegate {

    @Override
    public <T> T createEndpoint(Application application, Class<T> endpointType)
            throws IllegalArgumentException, UnsupportedOperationException {
        throw new UnsupportedOperationException();
    }

}
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19 May, 2009

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**1.474 jline 0.9.94**

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1.475 JLine - Java console input library 0.9.94

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1.482 json 1.8.3

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Open Source Used In Cisco Tetration Analytics 3.1.1

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"# New GUI window--should *NOT* have the visual settings of inline

```python
plt.plot([1,2,3])
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1.484 JSON in Java [package org.json] 2011-02-02

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package org.json;

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*/

/**
 * This provides static methods to convert comma delimited text into a
 * JSONArray, and to covert a JSONArray into comma delimited text. Comma
 * delimited text is a very popular format for data interchange. It is
 * understood by most database, spreadsheet, and organizer programs.
 * <p>
 * Each row of text represents a row in a table or a data record. Each row
 * ends with a NEWLINE character. Each row contains one or more values.
 * Values are separated by commas. A value can contain any character except
 * for comma, unless is is wrapped in single quotes or double quotes.
 * <p>
 * The first row usually contains the names of the columns.
 * <p>
 * A comma delimited list can be converted into a JSONArray of JSONObjects.
 * The names for the elements in the JSONObjects can be taken from the names
 * in the first row.
 * @author JSON.org
 * @version 2010-12-24
 */

public class CDL {

    /**
     * Get the next value. The value can be wrapped in quotes. The value can
     * be empty.
     * @param x A JSONTokener of the source text.
     * @return The value string, or null if empty.
     * @throws JSONException if the quoted string is badly formed.
     */

    private static String getValue(JSONTokener x) throws JSONException {
        char c;
        char q;
        StringBuffer sb;
        do {
            c = x.next();
        } while (c == ' ' || c == '	');
        switch (c) {
            case 0:
                return null;
            case '"':
                case ":
                case ":
                    StringBuffer sb = new StringBuffer();
                    while (c != ' ' && c != '	') {
                        sb.append(c);
                        c = x.next();
                    }
                    return sb.toString();
                case ":
                case ":
                    return sb.toString();
            case ":
                case ":
                    return sb.toString();
        }

        return null;
    }

    // Other static methods...
}
q = c;
sb = new StringBuffer();
for (;;) {
c = x.next();
if (c == q) {
    break;
}
if (c == 0 || c == '\n' || c == '') {
    throw x.syntaxError("Missing close quote " + q + ";");
}
sb.append(c);
}
return sb.toString();
case ',':
x.back();
return "";
default:
x.back();
return x.nextTo(',,');
}

/**
 * Produce a JSONArray of strings from a row of comma delimited values.
 * @param x A JSONTokener of the source text.
 * @return A JSONArray of strings.
 * @throws JSONException
 */
public static JSONArray rowToJSONArray(JSONTokener x) throws JSONException {
    JSONArray ja = new JSONArray();
    for (;;) {
        String value = getValue(x);
        char c = x.next();
        if (value == null ||
            (ja.length() == 0 && value.length() == 0 && c != ',') ||
            (ja.length() == 0 && value.length() == 0 && c != ' ') ||
            (ja.length() == 0 && value.length() == 0 && c != ',') ||
            (ja.length() == 0 && value.length() == 0 && c != ' ')) {
            return null;
        }
        ja.put(value);
        for (;;) {
            if (c == ',') {
                break;
            }
            if (c != ' ') {
                if (c == '\n' || c == '\r' || c == 0) {
                    return ja;
                }
                throw x.syntaxError("Bad character '" + c + "; " + (int)c + ");.");
            }
        }
    }
}
public static JSONObject rowToJSONObject(JSONArray names, JSONTokener x) throws JSONException {
    JSONArray ja = rowToJSONArray(x);
    return ja != null ? ja.toJSONObject(names) : null;
}

public static String rowToString(JSONArray ja) {
    StringBuffer sb = new StringBuffer();
    for (int i = 0; i < ja.length(); i += 1) {
        if (i > 0) {
            sb.append(',');
        }
        Object object = ja.opt(i);
        if (object != null) {
            String string = object.toString();  
            if (string.length() > 0 && (string.indexOf(',') >= 0 ||
                                 string.indexOf('
') >= 0 || string.indexOf('') >= 0 ||
                                 string.indexOf(0) >= 0 || string.charAt(0) == '"')) {
                sb.append('"');
                int length = string.length();
                for (int j = 0; j < length; j += 1) {
                    char c = string.charAt(j);
                    if (c == ' ' && c != '"') {
                        sb.append(c);
                    }
                }  
            } else {
                sb.append(string);
            }
        }
    }
    Object object = ja.opt(i);
    if (object != null) {
        String string = object.toString();  
        if (string.length() > 0 && (string.indexOf(',') >= 0 ||
                                 string.indexOf('
') >= 0 || string.indexOf('') >= 0 ||
                                 string.indexOf(0) >= 0 || string.charAt(0) == '"')) {
            sb.append('"');
            int length = string.length();
            for (int j = 0; j < length; j += 1) {
                char c = string.charAt(j);
                if (c == ' ' && c != '"') {
                    sb.append(c);
                }
            }  
        } else {
            sb.append(string);
        }
    }
    return sb.toString();
}

/**
 * Produce a JSONObject from a row of comma delimited text, using a
 * parallel JSONArray of strings to provides the names of the elements.
 * @param names A JSONArray of names. This is commonly obtained from the
 * first row of a comma delimited text file using the rowToJSONArray
 * method.
 * @param x A JSONTokener of the source text.
 * @return A JSONObject combining the names and values.
 * @throws JSONException
 */
public static JSONObject rowToJSONObject(JSONArray names, JSONTokener x) throws JSONException {
    JSONArray ja = rowToJSONArray(x);
    return ja != null ? ja.toJSONObject(names) : null;
}

/**
 * Produce a comma delimited text row from a JSONArray. Values containing
 * the comma character will be quoted. Troublesome characters may be
 * removed.
 * @param ja A JSONArray of strings.
 * @return A string ending in NEWLINE.
 */
public static String rowToString(JSONArray ja) {
    StringBuffer sb = new StringBuffer();
    for (int i = 0; i < ja.length(); i += 1) {
        if (i > 0) {
            sb.append(',');
        }
        Object object = ja.opt(i);
        if (object != null) {
            String string = object.toString();  
            if (string.length() > 0 && (string.indexOf(',') >= 0 ||
                                 string.indexOf('
') >= 0 || string.indexOf('') >= 0 ||
                                 string.indexOf(0) >= 0 || string.charAt(0) == '"')) {
                sb.append('"');
                int length = string.length();
                for (int j = 0; j < length; j += 1) {
                    char c = string.charAt(j);
                    if (c == ' ' && c != '"') {
                        sb.append(c);
                    }
                }  
            } else {
                sb.append(string);
            }
        }
    }
    Object object = ja.opt(i);
    if (object != null) {
        String string = object.toString();  
        if (string.length() > 0 && (string.indexOf(',') >= 0 ||
                                 string.indexOf('
') >= 0 || string.indexOf('') >= 0 ||
                                 string.indexOf(0) >= 0 || string.charAt(0) == '"')) {
            sb.append('"');
            int length = string.length();
            for (int j = 0; j < length; j += 1) {
                char c = string.charAt(j);
                if (c == ' ' && c != '"') {
                    sb.append(c);
                }
            }  
        } else {
            sb.append(string);
        }
    }
    return sb.toString();
}
sb.append('"');
} else {
    sb.append(string);
}
}
}

sb.append('"');
return sb.toString();

/**
 * Produce a JSONArray of JSONObjects from a comma delimited text string,
 * using the first row as a source of names.
 * @param string The comma delimited text.
 * @return A JSONArray of JSONObjects.
 * @throws JSONException
 */
public static JSONArray toJSONArray(String string) throws JSONException {
    return toJSONArray(new JSONTokener(string));
}

/**
 * Produce a JSONArray of JSONObjects from a comma delimited text string,
 * using the first row as a source of names.
 * @param x The JSONTokener containing the comma delimited text.
 * @return A JSONArray of JSONObjects.
 * @throws JSONException
 */
public static JSONArray toJSONArray(JSONTokener x) throws JSONException {
    return toJSONArray(rowToJSONArray(x), x);
}

/**
 * Produce a JSONArray of JSONObjects from a comma delimited text string
 * using a supplied JSONArray as the source of element names.
 * @param names A JSONArray of strings.
 * @param string The comma delimited text.
 * @return A JSONArray of JSONObjects.
 * @throws JSONException
 */
public static JSONArray toJSONArray(JSONArray names, String string) throws JSONException {
    return toJSONArray(names, new JSONTokener(string));
}

/**
 * Produce a JSONArray of JSONObjects from a comma delimited text string
 * using a supplied JSONArray as the source of element names.
 * @param names A JSONArray of strings.
 * @param string The comma delimited text.
 * @return A JSONArray of JSONObjects.
 * @throws JSONException
 */
public static JSONArray toJSONArray(JSONArray names, String string) throws JSONException {
    return toJSONArray(names, new JSONTokener(string));
}
public static JSONArray toJSONArray(JSONArray names, JSONTokener x) throws JSONException {
    if (names == null || names.length() == 0) {
        return null;
    }
    JSONArray ja = new JSONArray();
    for (;;) {
        JSONObject jo = rowToJSONObject(names, x);
        if (jo == null) {
            break;
        }
        ja.put(jo);
    }
    if (ja.length() == 0) {
        return null;
    }
    return ja;
}

public static String toString(JSONArray ja) throws JSONException {
    JSONObject jo = ja.optJSONObject(0);
    if (jo != null) {
        JSONArray names = jo.names();
        if (names != null) {
            return rowToString(names) + toString(names, ja);
        }
    }
    return null;
}

// Produce a comma delimited text from a JSONArray of JSONObjects. The first row will be a list of names obtained by inspecting the first JSONObject.
public static String toString(JSONArray ja) throws JSONException {
    JSONObject jo = ja.optJSONObject(0);
    if (jo != null) {
        JSONArray names = jo.names();
        if (names != null) {
            return rowToString(names) + toString(names, ja);
        }
    }
    return null;
}

// Produce a comma delimited text from a JSONArray of JSONObjects using a provided list of names. The list of names is not included in the
public static String toString(JSONArray names, JSONArray ja)
    throws JSONException {
    if (names == null || names.length() == 0) {
        return null;
    }
    StringBuffer sb = new StringBuffer();
    for (int i = 0; i < ja.length(); i += 1) {
        JSONObject jo = ja.optJSONObject(i);
        if (jo != null) {
            sb.append(rowToString(jo.toJSONArray(names)));
        }
    }
    return sb.toString();
}
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1.486 json-stringify-safe 5.0.1
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1.488 json4s-ast_2.10 3.2.10

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1.491 jsonify 0.0.0

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{
   "name" : "jsonify",
   "version" : "0.0.0",
   "description" : "JSON without touching any globals",
   "main" : "index.js",
   "directories" : {
      "lib" : ".",
      "test" : "test"
   },
   "devDependencies" : {
      "tap" : "0.4.x",
      "garbage" : "0.0.x"
   },
   "scripts" : {
}
1.492 jsonpointer 1.1.0
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# JSON Pointer for nodejs

This is an implementation of [JSON Pointer](http://tools.ietf.org/html/draft-ietf-appsawg-json-pointer-08).

## Usage

```javascript
var jsonpointer = require("jsonpointer");
var obj = { foo: 1, bar: { baz: 2 }, qux: [3, 4, 5]};
var one = jsonpointer.get(obj, "/foo");
var two = jsonpointer.get(obj, "/bar/baz");
var three = jsonpointer.get(obj, "/qux/0");
var four = jsonpointer.get(obj, "/qux/1");
var five = jsonpointer.get(obj, "/qux/2");

jsonpointer.set(obj, "/foo", 6); // obj.foo = 6;
```

## Testing

```
$ node test.js
All tests pass.
$
```

[![Build Status](https://travis-ci.org/janl/node-jsonpointer.png?branch=master)](undefined)

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### 1.493 jsp-api 2.0

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Jan Holmberg, <jan@artech.net>:
  o Memory framework
  o HTTP/SSL checkers

Bradley Baetz, <bradley.baetz@optusnet.com.au>:
  o MISC checker redesign
  o Scheduler framework extension to support child process handling.
  o Daemon framework extension to block SIGCHLD to only receive it when its unblocked in the scheduling select loop.

Jeremy Rumpf, <rumpf.6@osu.edu>:
  o Added SMTP checker

Chris Caputo, <ccaputo@alt.net>:
  o Added dont_track_primary, nopreempt, preempt_delay, and misc_dynamic.

Kevin Lindsay, <kevinl@netnation.com>:
  o Fixed shadowed declaration reported by -Wshadow.
  o Redesigned signal handling.

Nick Couchman, <nick.couchman at seakr.com>:
  o Patch for u_threshold and l_threshold support.

Willy Tarreau, <w at 1wt.eu>:
  o Extended VRRP framework to support floating
priority.

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1.518 libconfuse 2_7

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1.519 libevent 1.4.13-stable

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1.558 macos-release 1.0.0

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1.560 map-obj 1.0.1
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> Map object keys and values into a new object

```js
var mapObj = require('map-obj');
```
var newObject = mapObj({foo: 'bar'}, function (key, value, object) {
  // first element is the new key and second is the new value
  // here we reverse the order
  return [value, key];
};
//=> {bar: 'foo'}
```

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### 1.563 md5-o-matic 0.1.1

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1.564 media-typer 0.3.0

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1.565 method-override 2.3.5

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1.568 metrics-graphite 3.0.0

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Written by: Philip Hazel
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zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.8, April 28th, 2013

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<tr>
<td>mfbt</td>
<td></td>
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<tr>
<td>js/src/vm/Unicode.cpp</td>
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<td>Public Domain</td>
</tr>
<tr>
<td>mfbt/lz4.c</td>
<td>Yann Collet</td>
<td>BSD-2-Clause</td>
</tr>
<tr>
<td>mfbt/lz4.h</td>
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</tbody>
</table>

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1.604 morgan 1.6.1

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1.605 morphia r1.1.0

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1.606 ms 0.7.1
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1.609 multipart-post 2.0.0

1.610 multipart-post 1.2.0

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1.611 multiparty 3.3.2

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1.612 multipipe 0.1.2

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# multipipe

A better `Stream#pipe` that creates duplex streams and lets you handle errors in one place.

[![build status](https://secure.travis-ci.org/segmentio/multipipe.png)](http://travis-ci.org/segmentio/multipipe)
## Example

```js
var pipe = require('multipipe');

// pipe streams
var stream = pipe(streamA, streamB, streamC);

// centralized error handling
stream.on('error', fn);

// creates a new stream
source.pipe(stream).pipe(dest);

// optional callback on finish or error
pipe(streamA, streamB, streamC, function(err){
  // ...
});
```

## Duplex streams

Write to the pipe and you'll really write to the first stream, read from the pipe and you'll read from the last stream.

```js
var stream = pipe(a, b, c);

source
.pipe(stream)
.pipe(destination);
```

In this example the flow of data is:

* source ->
* a ->
* b ->
* c ->
* destination

## Error handling

Each `pipe` forwards the errors the streams it wraps emit, so you have one central place to handle errors:

```js
var stream = pipe(a, b, c);
```
stream.on('error', function(err){
  // called three times
  
  a.emit('error', new Error);
  b.emit('error', new Error);
  c.emit('error', new Error);
  ```

## API

### pipe(stream, ...)

Pass a variable number of streams and each will be piped to the next one.

A stream will be returned that wraps passed in streams in a way that errors will be forwarded and you can write to and/or read from it.

Pass a function as last argument to be called on `error` or `finish` of the last stream.

## Installation

```bash
$ npm install multipipe
```

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1.613 mute-stream 0.0.5

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1.614 Nagios 3.5

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1.626 ng-file-upload 11.0.2

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1.634 node-is-arrayish 0.2.1

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1.636 node-uuid 1.4.7

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//    https://github.com/inexorablatash/polyfill

// ES3/ES5 implementation of the Khronos Typed Array Specification
// Ref: http://www.khronos.org/registry/typedarray/specs/latest/
// Date: 2011-02-01
//
// Variations:
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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation
=======================================================================
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> ES6 `Number.isNaN()` ponyfill

> Ponyfill: A polyfill that doesn't overwrite the native method

```bash
$ npm install --save number-is-nan
```

## Usage

```javascript
var numberIsNan = require('number-is-nan');

numberIsNan(NaN);
//=> true

numberIsNan('unicorn');
//=> false
```

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1.662 options 0.0.6

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# options.js#

A very light-weight in-code option parsers for node.js.

```js
```
// Create an Options object
function foo(options) {
    var default_options = {
        foo : "bar"
    };

    // Create an option object with default value
    var opts = new Options(default_options);

    // Merge options
    opts = opts.merge(options);

    // Reset to default value
    opts.reset();

    // Copy selected attributes out
    var seled_att = opts.copy("foo");

    // Read json options from a file.
    opts.read("options.file"); // Sync
    opts.read("options.file", function(err){ // Async
        if(err){ // If error occurs
            console.log("File error.");
        }else{
            // No error
        }
    });

    // Attributes defined or not
    opts.isDefinedAndNonNull("foobar");
    opts.isDefined("foobar");
}

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1.667 orm_adapter 0.5.0
1.668 oro 2.0.8

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Daniel Savarese <dfs at savarese.org> is the original author of the
OROMatcher, PerlTools, AwkTools, and TextTools packages that became
the Jakarta-ORO project.

Jon Stevens <jon at collab.net> helped prepare the first release of
jakarta-oro and is a constant help in keeping the project consistent
with the Jakarta project as a whole.

Takashi Okamoto <tokamoto at rd.nttdata.co.jp> has contributed a unicode
character class fix and an initial posix character class implementation.

Mark Murphy <markm at tyrell.com> has contributed performance
improvements to Perl5Substitution as well as adding support for
\UuLlE and escaping of $.

Michael Davey <michael.davey at coderage.org> fixed some documentation and
added a missing int substitute(...) method to Perl5Util.

Harald Kuhn <harald at ontopia.net> updated
MatchActionProcessor.processMatches() to accommodate character encodings.

1.669 os-homedir 1.0.1

1.669.1 Available under license:

# os-homedir ![Build Status](https://travis-ci.org/sindresorhus/os-homedir.svg?branch=master)

> io.js 2.3.0 ['os.homedir'](https://iojs.org/api/os.html#os_homedir) ponyfill

> Ponyfill: A polyfill that doesn't overwrite the native method
## Install
```
$ npm install --save os-homedir
```

## Usage
```
```js
var osHomedir = require('os-homedir');

console.log(osHomedir());
//=> /Users/sindresorhus
```

## Related
- [user-home](https://github.com/sindresorhus/user-home) - Same as this module but caches the result
- [home-or-tmp](https://github.com/sindresorhus/home-or-tmp) - Get the user home directory with fallback to the system temp directory

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### Install

```sh
$ npm install --save os-tmpdir
```

### Usage

```js
var osTmpdir = require('os-tmpdir');

osTmpdir();
//=> /var/folders/m3/5574nnhn0yj488ccryqr7tc80000gn/T
```

### API

See the `os.tmpdir` docs.

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1.672 osenv 0.1.3

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> Node.js 0.12 ['path.isAbsolute()'](http://nodejs.org/api/path.html#path_path_isabsolute_path) ponyfill

> Ponyfill: A polyfill that doesn't overwrite the native method

```js
## Install
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```
```
```
var pathIsAbsolute = require('path-is-absolute');

// Linux
pathIsAbsolute('/home/foo');
//=> true

// Windows
pathIsAbsolute('C:/Users/');
//=> true

// Any OS
pathIsAbsolute.posix('/home/foo');
//=> true

## API

See the `path.isAbsolute()` docs.[http://nodejs.org/api/path.html#path_path_isabsolute_path].

### pathIsAbsolute(path)

### pathIsAbsolute.posix(path)

The Posix specific version.

### pathIsAbsolute.win32(path)

The Windows specific version.

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> Node.js 0.12 ['path.isAbsolute()'](http://nodejs.org/api/path.html#path_path_isabsolute_path) ponyfill

> Ponyfill: A polyfill that doesn't overwrite the native method

## Install
```bash
$ npm install --save path-is-absolute
```

## Usage

```javascript
var pathIsAbsolute = require('path-is-absolute');

// Linux
pathIsAbsolute('/home/foo');
//=> true

// Windows
pathIsAbsolute('C:/Users/');
//=> true

// Any OS
pathIsAbsolute.posix('/home/foo');
//=> true
```

## API

See the [`path.isAbsolute()` docs](http://nodejs.org/api/path.html#path_path_isabsolute_path).

### pathIsAbsolute(path)

### pathIsAbsolute.posix(path)

The Posix specific version.

### pathIsAbsolute.win32(path)

The Windows specific version.

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mgo - MongoDB driver for Go

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mgo - MongoDB driver for Go

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zlib.h -- interface of the 'zlib' general purpose compression library
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using boost::move_detail::true_;  
using boost::move_detail::false_;  
using boost::move_detail::unvoid_ref;  
using boost::move_detail::and_;  
using boost::move_detail::or_;  
using boost::move_detail::not_;  
using boost::move_detail::enable_if_and;  
using boost::move_detail::disable_if_and;  
using boost::move_detail::enable_if_or;  
using boost::move_detail::disable_if_or;

template <class Pair>
struct select1st
{
    typedef Pair argument_type;
    typedef typename Pair::first_type result_type;

    template<class OtherPair>
    const typename Pair::first_type& operator()(const OtherPair& x) const
    { return x.first; }   

    const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
    { return x; }   
}

#include <boost/container/detail/config_end.hpp>

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////////////////////////////////////////////////////////////////////////////

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#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

//#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

//polatorion

#endif // BOOST_INTERPROCESS_DETAIL_MPL_HPP
#ifndef BOOST_CONFIG_HPP
# include <boost/config.hpp>
#endif
#
#if defined(BOOST_HAS_PRAGMA_ONCE)
# pragma once
#endif

#include <cstdint>
namespace boost {
    namespace interprocess {
        namespace ipcdetail {

            template <class T, T val>
            struct integral_constant {
                static const T value = val;
                typedef integral_constant<T,val> type;
            };

            template< bool C_ >
            struct bool_ : integral_constant<bool, C_> 
            {
                static const bool value = C_;
            };

            typedef bool_<true>        true_;
            typedef bool_<false>       false_;

            typedef true_  true_type;
            typedef false_ false_type;

            typedef char yes_type;
            struct no_type {
                char padding[8];
            };

            template <bool B, class T = void>
            struct enable_if_c {
                typedef T type;
            };

            template <class T>
            struct enable_if_c<false, T> {};

            template <class Cond, class T = void>
struct enable_if : public enable_if<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if<!Cond::value, T> {};

template <class T, class U>
class is_convertible
{
    typedef char true_t;
    class false_t { char dummy[2]; };  
    static true_t dispatch(U);
    static false_t dispatch(...);
    static T trigger();
    public:
    static const bool value = sizeof(dispatch(trigger())) == sizeof(true_t);
};

template<
    bool C
    , typename T1
    , typename T2
>
struct if_c
{
    typedef T1 type;
};

template<
    typename T1
    , typename T2
>
struct if_c<false,T1,T2>
{
    typedef T2 type;
};

template<
    typename T1
    , typename T2
    , typename T3
>
struct if_<
{
    typedef typename if_c<0 != T1::value, T2, T3>::type type;
};

template <class Pair>
struct select1st
// : public std::unary_function<Pair, typename Pair::first_type>
{
template<class OtherPair>
const typename Pair::first_type& operator()(const OtherPair& x) const
{ return x.first; }
const typename Pair::first_type& operator()(const typename Pair::first_type& x) const
{ return x; }
};
// identity is an extension: it is not part of the standard.
template <class T>
struct identity
// : public std::unary_function<T,T>
{
typedef T type;
const T& operator()(const T& x) const
{ return x; }
};
template<std::size_t S>
struct ls_zeros
{
static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};
template<>
struct ls_zeros<0>
{
static const std::size_t value = 0;
};
template<>
struct ls_zeros<1>
{
static const std::size_t value = 0;
};
} //namespace ipcdetail {
} //namespace interprocess {
} //namespace boost {
#endif //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
/////////////////////////////////////////////////////////////////////////////
//
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/////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
  #include <boost/config.hpp>
#endif
#if defined(BOOST_HAS_PRAGMA_ONCE)
  #pragma once
#endif
#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>
namespace boost {
  namespace intrusive {
    namespace detail {
      using boost::move_detail::is_same;
      using boost::move_detail::add_const;
      using boost::move_detail::remove_const;
      using boost::move_detail::remove_cv;
      using boost::move_detail::remove_reference;
      using boost::move_detail::add_reference;
      using boost::move_detail::remove_pointer;
      using boost::move_detail::add_pointer;
      using boost::move_detail::true_type;
      using boost::move_detail::false_type;
      using boost::move_detail::enable_if_c;
      using boost::move_detail::enable_if;
      using boost::move_detail::disable_if_c;
      using boost::move_detail::disable_if;
      using boost::move_detail::is_convertible;
      using boost::move_detail::if_c;
      using boost::move_detail::if_;
      using boost::move_detail::is_const;
      using boost::move_detail::identity;
      using boost::move_detail::alignment_of;
    } // namespace detail
  } // namespace intrusive
} // namespace boost
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;
using boost::move_detail::add_const_if_c;

template<std::size_t S>
struct ls_zeros
{
    static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
    static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
    static const std::size_t value = 0;
};

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)     \
    template <typename T, typename DefaultType>                    \
    struct boost_intrusive_default_type_ ## TNAME                  \
    {                                                              \
        template <typename X>                                       \
        static char test(int, typename X::TNAME*);                  \
        \
        template <typename X>                                       \
        static int test(...);                                       \
        \
        struct DefaultWrap { typedef DefaultType TNAME; };          \
        \
        static const bool value = (1 == sizeof(test<T>(0, 0)));     \
    }
typedef typename ::boost::intrusive::detail::if_c <value, T, DefaultWrap>::type::TNAME type;

//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) \
  typename INSTANTIATION_NS_PREFIX \
    boost_intrusive_default_type_ ## TNAME< T, TIMPL >::type \

//

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME) \
  template <typename T, typename DefaultType> \
    struct boost_intrusive_eval_default_type_ ## TNAME \
    { \
      template <typename X> \
        static char test(int, typename X::TNAME*); \
      \
      template <typename X> \
        static int test(...); \
      \
      struct DefaultWrap \
      { typedef typename DefaultType::type TNAME; }; \
      \
      static const bool value = (1 == sizeof(test<T>(0, 0))); \
      \
      typedef typename ::boost::intrusive::detail::eval_if_c < value \
        , ::boost::intrusive::detail::identity<T> \
        , ::boost::intrusive::detail::identity<DefaultWrap> \
        >::type::TNAME type; \
    }

//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T, TNAME, TIMPL) \
  typename INSTANTIATION_NS_PREFIX \
    boost_intrusive_eval_default_type_ ## TNAME< T, TIMPL >::type \

//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX, TYPEDEF_TO_FIND) \
  template <class T> \
    struct TRAITS_PREFIX##_bool \
    {


template<bool Add>
struct two_or_three {yes_type _[2 + Add];};

template <class U> static yes_type test(...);
template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);
static const std::size_t value = sizeof(test<T>(0));
};

//
template <class T>
struct TRAITS_PREFIX##_bool_is_true
{
  static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;
};

#undef BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME, FUNC_NAME)
#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME, FUNC_NAME) 
  template <typename U, typename Signature> 
  class TRAITS_NAME 
  { 
  private: 
    template<Signature> struct helper;
    template<typename T> 
    static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*); 
    template<typename T> static ::boost::intrusive::detail::no_type test(...); 
    public: 
    static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type); 
  }; 

#undef BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) 
#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) 
  template <typename Type> 
  struct TRAITS_NAME 
  { 
    struct BaseMixin 
    { 
      void FUNC_NAME(); 
    }; 
    struct Base : public Type, public BaseMixin { Base(); }; 
    template <typename T, T t> class Helper{ };
    template <typename U> 
    static ::boost::intrusive::detail::no_type  test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0); 
    static ::boost::intrusive::detail::yes_type test(...); 
    static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0))); 
  };

#undef BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, FUNC_NAME) 
#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME, FUNC_NAME) 

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Written by:   Philip Hazel
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1.697 pinkie-promise 2.0.0

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# pinkie-promise ![Build Status](https://travis-ci.org/floatdrop/pinkie-promise.svg?branch=master)

> [ES2015 Promise](https://people.mozilla.org/~jorendorff/es6-draft.html#sec-promise-objects) ponyfill

Module exports global Promise object (if available) or `\[ pinkie\]` Promise polyfill.

## Install

```bash
$ npm install --save pinkie-promise
```
## Usage

```js
var Promise = require('pinkie-promise');

new Promise(function (resolve) { resolve('unicorns'); });
//=> Promise { 'unicorns' }
```

## Related

- [pify](https://github.com/sindresorhus/pify) - Promisify a callback-style function

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1.709 pretty-hrtime 1.0.1

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1.710 process-nextick-args 1.0.6

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process-nextick-args

```bash
npm install --save process-nextick-args
```

```js
var nextTick = require('process-nextick-args');

nextTick(function (a, b, c) {
    console.log(a, b, c);
}, 'step', 3, 'profit');
```

Always be able to pass arguments to process.nextTick, no matter the platform
1.711 process-nextick-args 1.0.2

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```json
{
    "name": "process-nextick-args",
    "version": "1.0.2",
    "description": "process.nextTick but always with args",
    "main": "index.js",
    "scripts": {
        "test": "node test.js"
    },
    "repository": {
        "type": "git",
        "url": "https://github.com/calvinmetcalf/process-nextick-args.git"
    },
    "author": "",
    "license": "MIT",
    "bugs": {
        "url": "https://github.com/calvinmetcalf/process-nextick-args/issues"
    },
    "homepage": "https://github.com/calvinmetcalf/process-nextick-args",
    "devDependencies": {
        "tap": "~0.2.6"
    }
}
```

1.712 progress 1.1.8

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* Added generation of field number constants.
Wink Saville <wink@google.com>
* Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
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Alexander Melnikov <alm@sibmail.ru>
* HPUX support.
Oliver Jowett <oliver.jowett@gmail.com>
* Detect whether zlib is new enough in configure script.
* Fixes for Solaris 10 32/64-bit confusion.
Evan Jones <evanj@mit.edu>
* Optimize Java serialization code when writing a small message to a stream.
* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
* Fix bug with permanent callbacks that delete themselves when run.
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* Added CodedInputStream.getTotalBytesRead().
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* Fixed m4/acx_pthread.m4 problem for some Linux distributions.
William Orr <will@worrbase.com>
* Fixed detection of sched_yield on Solaris.
  * Added atomicops for Solaris

1.716 protobuf 2.5.0

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1.718 protobuf-java-format 1.2

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1.722 pump 1.0.1

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1.723 py4j 0.8.2.1

1.724 pyrolite 2.0.1
1.725 python-ambariclient 0.5.9

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1.730 q 1.4.1

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1.732 qs 2.3.3

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1.733 rack 1.6.4

1.734 rack 1.5.5

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1.737 rack-protection 1.5.3

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1.740 rack-test 0.6.3

1.741 rails 4.1.0

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1.742 rails_12factor 0.0.3

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1.743 rails_config 0.4.2
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1.744 rails_serve_static_assets 0.0.5
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1.745 rails_stdout_logging 0.0.5

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1.748 rake 10.3.2

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1.750 rb-readline 0.5.3

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1.751 rc 1.1.5

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{
  "name": "read",
  "version": "1.0.7",
  "main": "lib/read.js",
  "dependencies": {
    "mute-stream": "~0.0.4"
  },
  "devDependencies": {
    "tap": "^1.2.0"
  },
  "engines": {
    "node": ">=0.8"
  },
  "author": "Isaac Z. Schlueter <i@izs.me> (http://blog.izs.me/)",
  "description": "read(1) for node programs",
  "repository": {
    "type": "git",
    "url": "git://github.com/isaacs/read.git"
  },
  "license": "ISC",
  "scripts": {
    "test": "tap test/*.*js"
  },
  "files": [
    "lib/read.js"
  ]
}
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1.753 read-all-stream 3.0.1

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1.756 readable-stream 1.1.13

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1.783 responders 1.1.2

1.784 response-time 2.3.1

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1.797 rspec-expectations 3.4.0

1.798 rspec-mocks 3.4.1

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1.800 rspec-support 3.4.1

1.801 ruby-druid 0.1.9

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1.809 safe_yaml 1.0.4

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1.812 saucelabs 0.1.1

1.813 sax 0.6.1

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files split from toms/big644 on 1 Dec 1987 (already public)

------m dongarra Fri Jun 21 17:58:49 EDT 1991
Subject: amos

As I install the new dependency resolution mechanism for netlib, I'm recompiling lots of libraries, sometimes for the first time in years. The amos collection is causing me trouble because it defines a function zabs() which the SGI compiler believes is an intrinsic (with different arguments). For expediency, I'm just dropping the ".I" prefix from amos in /netlib/admin/LIBS.

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David K. Kahaner
Scientific Computing Division
National Bureau of Standards
Washington DC 20234

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R. Piessens, E. deDoncker-Kapenga, C. Uberhuber, D. Kahaner
Quadpack: a Subroutine Package for Automatic Integration
Springer Verlag, 1983.  Series in Computational Mathematics v.1
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--------
Toddd Veldhuizen <tveldhui AT gmail DOT com> Tue, Mar 25, 2008 at 11:55 AM
To: Jarrod Millman <millman AT berkeley DOT edu>
Cc: Julian Cummings <cummings AT cacr DOT caltech DOT edu>, Todd Veldhuizen <tveldhui AT acm DOT org>

I have no objections to releasing it under a BSD license.

best
Todd

On 21/03/2008, Jarrod Millman <millman AT berkeley DOT edu> wrote:
> Julian and Todd,
> 
> I'm writing to see if we can get an exception to the Blitz license so
> that it can be released with a BSD license within SciPy. Currently,
> the Fedora project is classifying the entire SciPy package as GPLed
> because one package, scipy.weave, uses blitz. (the rest of the code is
> all BSD). We were about to launch into the re-factoring step to make
> the blitz portion optional, when it occurred to us to just ask you
> guys first. :-) 
> 
> Blitz is included in the scipy.weave package which allows you to
> inline C/C++ within Python. Users have the option of converting NumPy
> arrays to blitz arrays for use in C++. There is also a function
> (weave.blitz) that will automatically convert NumPy expressions in
> Python to Blitz expressions in C++. Often this shows notable speed
> improvements. Our re-factoring step will require us to split the
> blitz code into the blitz and non-blitz portions. This is a bit of a
> pain, and ends up with more installation issues than if we didn't do
> it.
> 
> Thanks for your consideration,
>
> --
> Jarrod Millman
> Computational Infrastructure for Research Labs
> 10 Giannini Hall, UC Berkeley
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1.836 signal-exit 2.1.2

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1.840 slf4j-log4j12 1.6.1

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1.849 source-map 0.1.43
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1.851 source-map-support 0.2.10

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1.852 spark 1.6.2

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# A. HISTORY OF THE SOFTWARE
#
# =========================
#
# Python was created in the early 1990s by Guido van Rossum at Stichting
# Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
# as a successor of a language called ABC. Guido remains Python's
# principal author, although it includes many contributions from others.
#
# In 1995, Guido continued his work on Python at the Corporation for
# National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
# in Reston, Virginia where he released several versions of the
# software.
#
# In May 2000, Guido and the Python core development team moved to
# BeOpen.com to form the BeOpen PythonLabs team. In October of the same
# year, the PythonLabs team moved to Digital Creations (now Zope
# Corporation, see http://www.zope.com). In 2001, the Python Software
# Foundation (PSF, see http://www.python.org/psf/) was formed, a
# non-profit organization created specifically to own Python-related
# Intellectual Property. Zope Corporation is a sponsoring member of
# the PSF.
#
# All Python releases are Open Source (see http://www.opensource.org for
# the Open Source Definition). Historically, most, but not all, Python
# releases have also been GPL-compatible; the table below summarizes
# the various releases.
#
# Release     Derived  Year  Owner      GPL-
# from              compatible? (1)
#
# 0.9.0 thru 1.2   1991-1995  CWI    yes
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# (2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.
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Library has been written by Tatu Saloranta (tatu.saloranta@iki.fi). It was started at Ning, inc., as an official Open Source process used by platform backend, but after initial versions has been developed outside of Ning by supporting community.

Other contributors include:

* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor fixes; these can be found from file "VERSION.txt" in SCM.

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.
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For CloudPickle (pyspark/cloudpickle.py):
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For Py4J (python/lib/py4j-0.8.2.1-src.zip)
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For DPark join code (python/pyspark/join.py):
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For heapq (pyspark/heapq3.py):
========================================================================

# A. HISTORY OF THE SOFTWARE
#
# ================
#
# Python was created in the early 1990s by Guido van Rossum at Stichting
# Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
# as a successor of a language called ABC. Guido remains Python's
# principal author, although it includes many contributions from others.
#
# In 1995, Guido continued his work on Python at the Corporation for
# National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
# software.
#
# In May 2000, Guido and the Python core development team moved to
# BeOpen.com to form the BeOpen PythonLabs team. In October of the same
# year, the PythonLabs team moved to Digital Creations (now Zope
# Corporation, see http://www.zope.com). In 2001, the Python Software
# Foundation (PSF, see http://www.python.org/psf/) was formed, a
# non-profit organization created specifically to own Python-related
# Intellectual Property. Zope Corporation is a sponsoring member of
# the PSF.
#
# All Python releases are Open Source (see http://www.opensource.org for
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# releases have also been GPL-compatible; the table below summarizes
# the various releases.
#
# Release         Derived     Year  Owner       GPL-
# from                          compatible? (1)
#
# 0.9.0 thru 1.2              1991-1995  CWI   yes
# 1.3 thru 1.5.2  1.2         1995-1999  CNRI   yes
# 1.6             1.5.2       2000      CNRI   no
# 2.0             1.6         2000      BeOpen.com  no
# 1.6.1           1.6         2001      CNRI   yes (2)
# 2.1             2.0+1.6.1   2001      PSF    no
# 2.0.1           2.0+1.6.1   2001      PSF    yes
# 2.1.1           2.1+2.0.1   2001      PSF    yes
# 2.2             2.1.1       2001      PSF    yes
# 2.1.2           2.1.1       2002      PSF    yes
# 2.1.3           2.1.2       2002      PSF    yes
# 2.2.1           2.2         2002      PSF    yes
# 2.2.2           2.2.1       2002      PSF    yes
# 2.2.3           2.2.2       2003      PSF    yes
# 2.3             2.2.2       2002-2003  PSF   yes
# 2.3.1           2.3         2002-2003  PSF   yes
# 2.3.2           2.3.1       2002-2003  PSF   yes
# 2.3.3           2.3.2       2002-2003  PSF   yes
# 2.3.4           2.3.3       2004      PSF    yes
# 2.3.5           2.3.4       2005      PSF    yes
# 2.4             2.3         2004      PSF    yes
# 2.4.1           2.4         2005      PSF    yes
# 2.4.2           2.4.1       2005      PSF    yes
# Open Source Used In Cisco Tetration Analytics 3.1.1

# 2.4.3 2.4.2 2006 PSF yes
# 2.4.4 2.4.3 2006 PSF yes
# 2.5 2.4 2006 PSF yes
# 2.5.1 2.5 2007 PSF yes
# 2.5.2 2.5.1 2008 PSF yes
# 2.5.3 2.5.2 2008 PSF yes
# 2.6 2.5 2008 PSF yes
# 2.6.1 2.6 2008 PSF yes
# 2.6.2 2.6.1 2009 PSF yes
# 2.6.3 2.6.2 2009 PSF yes
# 2.6.4 2.6.3 2009 PSF yes
# 2.6.5 2.6.4 2010 PSF yes
# 2.7 2.6 2010 PSF yes

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# (1) GPL-compatible doesn't mean that we're distributing Python under
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# (2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
because its license has a choice of law clause. According to
CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
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# Thanks to the many outside volunteers who have worked under Guido's
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========================================================================
For Scala Interpreter classes (all .scala files in repl/src/main/scala except for Main.Scala, SparkHelper.scala and ExecutorClassLoader.scala), and for SerializableMapWrapper in JavaUtils.scala:
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# Compress LZF

This library contains efficient implementation of LZF compression format, as well as additional helper classes that build on JDK-provided gzip (deflat) codec.

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Library has been written by Tatu Saloranta (tatu.saloranta@iki.fi).
It was started at Ning, inc., as an official Open Source process used by platform backend, but after initial versions has been developed outside of Ning by supporting community.

Other contributors include:

* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor fixes; these can be found from file "VERSION.txt" in SCM.

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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# Compress LZF

This library contains efficient implementation of LZF compression format,
as well as additional helper classes that build on JDK-provided gzip (deflat) codec.

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Library has been written by Tatu Saloranta (tatu.saloranta@iki.fi).
It was started at Ning, inc., as an official Open Source process used by
platform backend, but after initial versions has been developed outside of
Ning by supporting community.

Other contributors include:

* Jon Hartlaub (first versions of streaming reader/writer; unit tests)
* Cedrik Lime: parallel LZF implementation

Various community members have contributed bug reports, and suggested minor
fixes; these can be found from file "VERSION.txt" in SCM.

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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#

acquire_rat_jar () {

    URL="http://repo1.maven.org/maven2/org/apache/rat/apache-rat/${RAT_VERSION}/apache-rat-
${RAT_VERSION}.jar"

    JAR="$rat_jar"

    # Download rat launch jar if it hasn't been downloaded yet
    if [ ! -f "$JAR" ]; then
        # Download
        printf "Attempting to fetch rat\n"
        JAR_DL="${JAR}.part"
        if [ ${command -v curl} ]; then
            curl -L --silent "$URL" > "$JAR_DL" && mv "$JAR_DL" "$JAR"
        elif [ ${command -v wget} ]; then
            wget --quiet "$URL" -O "$JAR_DL" && mv "$JAR_DL" "$JAR"
        else
            printf "You do not have curl or wget installed, please install rat manually.\n"
            exit -1
        fi
    fi

}
unzip -tq "$JAR" &> /dev/null
if [ $? -ne 0 ]; then
  # We failed to download
  rm "$JAR"
  printf "Our attempt to download rat locally to ${JAR} failed. Please install rat manually."
  exit -1
fi

# Go to the Spark project root directory
FWDIR="$(cd "$0"/..; pwd)"
cd "$FWDIR"

if test -x "$JAVA_HOME/bin/java"; then
  declare java_cmd="$JAVA_HOME/bin/java"
else
  declare java_cmd=java
fi

export RAT_VERSION=0.10
export rat_jar="$FWDIR/lib/apache-rat-${RAT_VERSION}.jar"
mkdir -p "$FWDIR/lib"

[[ -f "$rat_jar" ]] || acquire_rat_jar || {
  echo "Download failed. Obtain the rat jar manually and place it at $rat_jar"
  exit 1
}

$java_cmd -jar "$rat_jar" -E "$FWDIR/.rat-excludes" -d "$FWDIR" > rat-results.txt

if [ $? -ne 0 ]; then
  echo "RAT exited abnormally"
  exit 1
fi

ERRORS="$(cat rat-results.txt | grep -e "??")"

if test ! -z "$ERRORS"; then
  echo "Could not find Apache license headers in the following files:"
  echo "$ERRORS"
  exit 1
else
  echo -e "RAT checks passed."
fi

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For DPark join code (python/pyspark/join.py):
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For heapq (pyspark/heapq3.py):

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# Python was created in the early 1990s by Guido van Rossum at Stichting
# Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
# as a successor of a language called ABC. Guido remains Python's
# principal author, although it includes many contributions from others.
#
# In 1995, Guido continued his work on Python at the Corporation for
# National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
# in Reston, Virginia where he released several versions of the
# software.
#
# In May 2000, Guido and the Python core development team moved to
# BeOpen.com to form the BeOpen PythonLabs team. In October of the same
# year, the PythonLabs team moved to Digital Creations (now Zope
# Corporation, see http://www.zope.com). In 2001, the Python Software
# Foundation (PSF, see http://www.python.org/psf/) was formed, a
# non-profit organization created specifically to own Python-related
# Intellectual Property. Zope Corporation is a sponsoring member of
# the PSF.
#
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# releases have also been GPL-compatible; the table below summarizes
# the various releases.
#
# Release      Derived Year   Owner   GPL-
# from         compatible? (1)
#
# 0.9.0 thru 1.2 1991-1995 CWI    yes
# 1.3 thru 1.5.2 1.2 1995-1999 CNRI yes
# 1.6 1.5.2 2000 CNRI no
# 2.0 1.6 2000 BeOpen.com no
# 1.6.1 1.6 2001 CNRI yes (2)
# 2.1 2.0+1.6.1 2001 PSF no
# 2.0.1 2.0+1.6.1 2001 PSF yes
# 2.1.1 2.1+2.0.1 2001 PSF yes
# 2.2 2.1.1 2001 PSF yes
# 2.1.2 2.1.1 2002 PSF yes
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 */

package com.clearspring.analytics.stream.cardinality;

import java.io.ByteArrayInputStream;
/**
 * Implementation of HyperLogLog++ described in
 * Uses 64 bit hashing instead of 32
 * Has two representation modes: sparse and normal
 * 'normal' is approximately the same as regular hyperloglog (still uses 64 bits)
 * 'sparse' handles lower cardinality values with a highly accurate but poorly scaling
 * strategy and leverages data compression to compete with 'normal' for as long as possible
 * (sparse has the advantage on accuracy per unit of memory at low cardinality but quickly falls behind).
 */

public class HyperLogLogPlus implements ICardinality, Serializable {
    private enum Format {
        SPARSE, NORMAL
    }

    // Code implementation...
}
/**
 * used to mark codec version for serialization
 */
 private static final int VERSION = 2;
 // threshold and bias data taken from google's bias correction data set:
 // https://docs.google.com/document/d/1gyjMHy43U0W BXxfaeG-3MjGzejWddlpvMwEYAAWEI/view?fullscreen#
 static final double[] thresholdData = {10, 20, 40, 80, 400, 900, 1800, 3100, 6500, 15500, 20000, 50000, 120000, 350000};

 static final double[][] rawEstimateData = {
     // precision 4
Open Source Used In Cisco Tetration Analytics 3.1.1


// precision 15

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Open Source Used In Cisco Tetration Analytics 3.1.1

1.27200000000005, 1.86440000000005, 2.20600000000002, 3.21900000000005, 1.5154, 2.61019999999996,
1.65279999999996, 2.59979999999996, 0.95799999999997, 2.06799999999998, 2.32780000000002,
2.85640000000001, 2.29960000000005, 2.40899999999999, 1.97040000000004, 0.809799999999996,
1.33500000000004, 2.44899999999996, 1.20140000000004, 3.07380000000001, 2.09739999999996,
1.46000000000004, 2.91600000000002, 1.69200000000004, 0.954600000000028, 2.49300000000005, 2.2722,
1.33500000000004, 2.44899999999996, 1.20140000000004, 3.07380000000001, 2.09739999999996,
2.85640000000001, 2.29960000000005, 2.40899999999999, 1.97040000000004, 0.809799999999996,
1.65279999999996, 2.59979999999996, 0.95799999999997, 2.06799999999998, 2.32780000000002,
4.20159999999998, 1.96320000000003, 1.86400000000003, 1.42999999999995, 3.77940000000001,
1.27200000000005, 1.86440000000005, 2.20600000000002, 3.21900000000005, 1.5154, 2.61019999999996,
1.46000000000004, 2.91600000000002, 1.69200000000004, 0.954600000000028, 2.49300000000005, 2.2722,
1.33500000000004, 2.44899999999996, 1.20140000000004, 3.07380000000001, 2.09739999999996,
2.85640000000001, 2.29960000000005, 2.40899999999999, 1.97040000000004, 0.809799999999996,
1.65279999999996, 2.59979999999996, 0.95799999999997, 2.06799999999998, 2.32780000000002,
4.20159999999998, 1.96320000000003, 1.86400000000003, 1.42999999999995, 3.77940000000001,
1.27200000000005, 1.86440000000005, 2.20600000000002, 3.21900000000005, 1.5154, 2.61019999999996,
1.46000000000004, 2.91600000000002, 1.69200000000004, 0.954600000000028, 2.49300000000005, 2.2722,
1.33500000000004, 2.44899999999996, 1.20140000000004, 3.07380000000001, 2.09739999999996,
2.85640000000001, 2.29960000000005, 2.40899999999999, 1.97040000000004, 0.809799999999996,
1.65279999999996, 2.59979999999996, 0.95799999999997, 2.06799999999998, 2.32780000000002,
4.20159999999998, 1.96320000000003, 1.86400000000003, 1.42999999999995, 3.77940000000001,
1.27200000000005, 1.86440000000005, 2.20600000000002, 3.21900000000005, 1.5154, 2.61019999999996,
1.46000000000004, 2.91600000000002, 1.69200000000004, 0.954600000000028, 2.49300000000005, 2.2722,
1.33500000000004, 2.44899999999996, 1.20140000000004, 3.07380000000001, 2.09739999999996,
2.85640000000001, 2.29960000000005, 2.40899999999999, 1.97040000000004, 0.809799999999996,
1.65279999999996, 2.59979999999996, 0.95799999999997, 2.06799999999998, 2.32780000000002,
4.20159999999998, 1.96320000000003, 1.86400000000003, 1.42999999999995, 3.77940000000001,
2799

Open Source Used In Cisco Tetration Analytics 3.1.1
| Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     | Value     |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
private Format format;
private RegisterSet registerSet;
private final int m;
private final int p;

//Sparse versions of m and p
private int sm;
private int sp;

private final double alphaMM;

//How big the sparse set is allowed to get before we convert to 'normal'
private int sparseSetThreshold;
//How big the temp list is allowed to get before we batch merge it into the sparse set
private int sortThreshold;

private int[] tmpSet;
private int tmpIndex = 0;
private int[] sparseSet;

/**
 * This constructor disables the sparse set. If the counter is likely to exceed
 * the sparse set thresholds than using this constructor will help avoid the
 * extra memory pressure created by maintaining the sparse set until that threshold is
 * breached.
 *
 * @param p - the precision value for the normal set
 */
public HyperLogLogPlus(int p) {
    this(p, 0);
}

/**
 * Basic constructor for creating a instance that supports sparse and normal
 * representations. The values of <code>p</code> and <code>sp</code> define the precision of the Normal and Sparse set
 * representations for the data structure. <code>p</code> must be a value
 * between 4 and <code>sp</code> and <code>sp</code> must be less than 32.
 *
 * @param p - the precision value for the normal set
 * @param sp - the precision value for the sparse set
 */
public HyperLogLogPlus(int p, int sp) {
    this(p, sp, null, null);
}
/**
 * Constructor to support instances serialized with the legacy sparse
 * encoding scheme.
 *
 * @param p            - the precision value for the normal set
 * @param sp           - the precision value for the sparse set
 * @param deltaByteSet - a list of varint byte arrays encoded using a delta encoding scheme
 */

public HyperLogLogPlus(int p, int sp, List<byte[]> deltaByteSet) {
    this(p, sp);
    sparseSet = new int[deltaByteSet.size()];
    int previousValue = 0;
    for (int i = 0; i < deltaByteSet.size(); i++) {
        int nextValue = Varint.readUnsignedVarInt(deltaByteSet.get(i));
        sparseSet[i] = nextValue + previousValue;
        previousValue = sparseSet[i];
    }
}

// for constructing a sparse mode hllp
private HyperLogLogPlus(int p, int sp, int[] sparseSet) {
    this(p, sp, sparseSet, null);
}

// for constructing a normal mode hllp
private HyperLogLogPlus(int p, int sp, RegisterSet registerSet) {
    this(p, sp, null, registerSet);
}

private HyperLogLogPlus(int p, int sp, int[] sparseSet, RegisterSet registerSet) {
    if (p < 4 || (p > sp && sp != 0)) {
        throw new IllegalArgumentException("p must be between 4 and sp (inclusive)");
    }
    if (sp > 32) {
        throw new IllegalArgumentException("sp values greater than 32 not supported");
    }

    this.p = p;
    m = (int) Math.pow(2, p);
    format = Format.NORMAL;
    this.registerSet = registerSet;
    if (registerSet == null) {
        if (sp > 0) // Use sparse representation
        {
            format = Format.SPARSE;
            this.sp = sp;
            sm = (int) Math.pow(2, sp);
this.sparseSet = sparseSet;
sparseSetThreshold = (int) (m * 0.75);
sortThreshold = sparseSetThreshold / 4;
} else {
    this.registerSet = new RegisterSet((int) Math.pow(2, p));
}

this.alphaMM = HyperLogLog.getAlphaMM(p, m);

@Override
public boolean offerHashed(long hashedLong) {
    switch (format) {
    case NORMAL:
        // find first p bits of x
        final long idx = hashedLong >>> (64 - p);
        // Ignore the first p bits (the idx), and then find the number of leading zeros
        //Push a 1 to where the bit string would have ended if we didnt just push the idx out of the way
        //A one is always added to runLength for estimation calculation purposes
        final int runLength = Long.numberOfLeadingZeros((hashedLong << this.p) | (1 << (this.p - 1))) + 1;
        return registerSet.updateIfGreater((int) idx, runLength);
    case SPARSE:
        // Call the sparse encoding scheme which attempts to stuff as much helpful data into 32 bits as possible
        int k = encodeHash(hashedLong, p, sp);
        if (tmpSet == null) {
            tmpSet = new int[sortThreshold + 1];
        }
        // Put the encoded data into the temp set
        tmpSet[tmpIndex++] = k;
        if (sparseSet != null && sparseSet.length > sparseSetThreshold) {
            mergeTempList();
            convertToNormal();
        } else if (tmpIndex > sortThreshold) {
            mergeTempList();
        }
        return true;
    }
    return false;
}

@Override
public boolean offerHashed(int hashedInt) {
    throw new UnsupportedOperationException();
}

/**
* Add data to estimator based on the mode it is in
* /param o stream element
* /return Will almost always return true for sparse mode because the additions are batched in
*/

@Override
public boolean offer(Object o) {
    long x = MurmurHash.hash64(o);
    return offerHashed(x);
}

/**
* Converts the mode of this estimator from 'sparse' to 'normal'.
* 
* Each member of the set has its longer 'sparse precision (sp)' length idx
* truncated to length p and the associated run length is placed into a register.
* Collisions are resolved by merely taking the max.
*/

private void convertToNormal() {
    mergeTempList();
    this.registerSet = new RegisterSet((int) Math.pow(2, p));
    for (int k : sparseSet) {
        int idx = getIndex(k, p);
        int r = decodeRunLength(k);
        registerSet.updateIfGreater(idx, r);
    }
    format = Format.NORMAL;
    tmpSet = null;
    sparseSet = null;
}

/**
* Encode the sp length idx and, if necessary, the run length.
* 
* Start with the 64 bit hash as x.
* 
* Find all the bits that belong in the first sp (roughly 25) bits. (This is idx')
* Get rid of the first p (roughly 18) bits of those. (Those were idx (not prime))
* 
* If all the remaining bits are zero then we are going to need to find and encode the
* full run length of leading zeros, but this only happens once in 2^(sp - p) or roughly
* 2^7 times.
* 
* If at least one of them is not zero, then since the run length is determined by bits
* after p and the idx' contains the first (sp - p) bits of those, then just by putting idx'
* in the encoding, we will also be giving it all the information it needs to find the run length.
* 
* The relationship looks like this:
If we have idx', we could theoretically scan it (as per zeroTest) when unencoding and therefore know whether to look for the extra run length information. However, for now we have followed the authors of the paper and put this information in a flag bit at the end of the encoding.

Based on this flag, we know whether to adjust for the missing run length bits. We could also use this flag to compress all the zeros in "| all 0s? |", but saving a byte or so once in 128 times is less than the 120 bits spent on the flag elsewhere. Of course, after compression, the losses are not quite so large either way.

The encoding scheme now looks like:

```
| empty || sp bits || F |
| p bits || has 1 ||0 |
```

or if the run length was needed (ie 'all 0s?' was indeed all 0s):

```
| sp bits || run len || F |
| p bits || 0s ||1 |
```

The other notable encoding feature is the inversion of the run length, which just lets the lists be sorted in a convenient way. (Could alternatively sort in reverse, and use descending deltas).

```
private int encodeHash(long x, int p, int sp) {
    //Get the idx' (the first sp bits) by pushing the rest to the right (into oblivion >:D)
    int idx = (int) (x >>> (64 - sp));
    //Push to the left for all the spaces you know are between the start of your bits and the left 'wall'
    //then push p bits off as well so we have just our friend "all 0s?"
    int zeroTest = 0;
    if (p < sp) {
        zeroTest = idx << ((32 - sp) + p);
    }
    if (zeroTest == 0) {
        //See offer
```
final int runLength = Long.numberOfLeadingZeros((x << this.p) | (1 << (this.p - 1))) + 1;
//Invert run length by xoring it with a bunch of 1s
int invrl = runLength ^ 63;
return (((idx << 6)       //push the idx left 6 times to make room to put in the run length
    | invrl)    //then merge in the run length
    << 1)       //move left again to make room for the flag bit
    | 1;        //merge in the flag bit (set to one because we needed the run length)
} else {
//Just push left once. A zero will appear by default and that's the flag we want.
return idx << 1;
}
}

/**
 * More of less the opposite of the encoding function but just for getting out run lengths.
 *
 * @param k encoded int
 * @return run length
 */
private int decodeRunLength(int k) {
if ((k & 1) == 1) //checking the flag bit
{
    //Smoosh the flag bit; it has served its purpose
    //Then & with 63 to delete everything but the run length
    //Then invert again to undo the inversion from before
    return ((k >>> 1) & 63) ^ 63;
} else {
    //In one of the encode diagrams there is a substring of bits
    //labeled 'has 1'. This is where we find that one!

    //First push left to clear out the empty space (that is 31-sp places)
    //Then push left some more cause bits in precision p don't count for run length
    //That is, push left p times.
    //Lastly we add one because we love adding one to run lengths. Its our JAM
    return Integer.numberOfLeadingZeros(k << p + (31 - sp)) + 1;
}
}

/**
 * returns the hash portion of the of the integer value
 *
 * @param k - the encoded integer to extract the hash from
 * @return the encoded hash value
 */
private int getEncodedHash(int k) {
    return (k << p + (31 - sp));
}
/**
 * Get the idx' from an encoding
 * @param k encoded data
 * @return idx'
 */
private static int getSparseIndex(int k) {
    if ((k & 1) == 1) {
        return k >>> 7;
    } else {
        return k >>> 1;
    }
}

/**
 * Gets the idx from an encoding (note this is idx and not idx prime)
 * @param k encoded data
 * @param p 'normal' precision
 * @return
 */
private int getIndex(int k, int p) {
    k = getSparseIndex(k);
    return (k >>> (sp - p));
}

/**
 * Gather the cardinality estimate from this estimator.
 * Has two procedures based on current mode. 'Normal' mode works similar to HLL but has some
 * new bias corrections. 'Sparse' mode is linear counting.
 * @return
 */
@Override
public long cardinality() {
    switch (format) {
        case NORMAL:
            double registerSum = 0;
            int count = registerSet.count;
            double zeros = 0;
            for (int j = 0; j < registerSet.count; j++) {
                int val = registerSet.get(j);
                registerSum += 1.0 / (1 << val);
                if (val == 0) {
                    zeros++;
                }
            }
            return 2.0 * Math.log(2.0) * zeros / registerSum;
        case SPARSE:
            return 0;
    }
}
double estimate = alphaMM * (1 / registerSum);
double estimatePrime = estimate;
if (estimate <= (5 * m)) {
    estimatePrime = estimate - getEstimateBias(estimate, p);
}
double H;
if (zeros > 0) {
    H = HyperLogLog.linearCounting(count, zeros);
} else {
    H = estimatePrime;
}
// when p is large the threshold is just 5*m
if ((p <= 18 && H < thresholdData[p - 4]) || (p > 18 && estimate <= 5 * m)) {
    return Math.round(H);
} else {
    return Math.round(estimatePrime);
}
}

private static double getEstimateBias(double estimate, int p) {
    // get nearest neighbors for this estimate and precision
    // above p = 18 there is no bias correction
    if (p > 18) {
        return 0;
    }
    double[] estimateVector = rawEstimateData[p - 4];
    SortedMap<Double, Integer> estimateDistances = calcDistances(estimate, estimateVector);
    int[] nearestNeighbors = getNearestNeighbors(estimateDistances);
    return getBias(nearestNeighbors, p);
}

private static double getBias(int[] nearestNeighbors, int p) {
    double[] biasVector = biasData[p - 4];
    double biasTotal = 0.0d;
    for (int nearestNeighbor : nearestNeighbors) {
        biasTotal += biasVector[nearestNeighbor];
    }
    return biasTotal / (nearestNeighbors.length);
}

private static int[] getNearestNeighbors(SortedMap<Double, Integer> distanceMap) {
    // implementation
int[] nearest = new int[6];
int i = 0;
for (Integer index : distanceMap.values()) {
    nearest[i++] = index;
    if (i >= 6) {
        break;
    }
}
return nearest;

private static SortedMap<Double, Integer> calcDistances(double estimate, double[] estimateVector) {
    SortedMap<Double, Integer> distances = new TreeMap<Double, Integer>();
    int index = 0;
    for (double anEstimateVector : estimateVector) {
        distances.put(Math.pow(estimate - anEstimateVector, 2), index++);
    }
    return distances;
}

/**
 * Batch merges the sparse set with the temporary list. Usually called when the temporary
 * list fills up, but may also be needed when suddenly converting to normal or producing a
 * cardinality estimate.
 * <p/>
 * It works very similarly to the merge part of merge sort with some key differences:
 * We don't care about the kind of order the idxs appear in, only that they are in SOME order.
 * This is because we only need to be sure that we detect when they are the same. So if idx: '001' appears
 * first and idx: '002' appears last, that is fine as long as that behavior is the same for both lists.
 * <p/>
 * We do not allow duplicate entries (we are making a set after all), and collisions are resolved by run
 * length. However, most of the time the run length will be the same if two idx' are the same. Only in the
 * 1 in ~128 chance case of 'all 0s?' will they differ. Because the rest of the encoding is the same we can
 * do comparisons without extracting the run length and because of our earlier inversion trick, the highest
 * run length duplicates will appear first. So we take those and ignore any that follow with the same idx'.
 * <p/>
 * @param set sparse set
 * @param tmp list to be merged
 * @return the new sparse set
 */
private static int[] merge(int[] set, int[] tmp) {
    List<Integer> newSet = new ArrayList<Integer>();
    // iterate over each set and merge the result values
    int setLength = (set == null ? 0 : set.length);
    int seti = 0;
    int tmipi = 0;
    while (seti < setLength || tmipi < tmp.length) {
if (seti >= setLength) {
    int tmpVal = tmp[tmpi];
    newSet.add(tmpVal);
    tmpi++;
    tmpi = consumeDuplicates(tmp, getSparseIndex(tmpVal), tmpi);
} else if (tmpi >= tmp.length) {
    newSet.add(set[seti++]);
} else {
    int setVal = set[seti];
    int tmpVal = tmp[tmpi];
    if (getSparseIndex(setVal) == getSparseIndex(tmpVal)) {
        newSet.add(Math.min(setVal, tmpVal));
        tmpi++;
        tmpi = consumeDuplicates(tmp, getSparseIndex(tmpVal), tmpi);
        seti++;
    } else if (getSparseIndex(setVal) < getSparseIndex(tmpVal)) {
        newSet.add(setVal);
        seti++;
    } else {
        newSet.add(tmpVal);
        tmpi++;
        tmpi = consumeDuplicates(tmp, getSparseIndex(tmpVal), tmpi);
    }
}
return toIntArray(newSet);
}

private static int[] toIntArray(List<Integer> list) {
    int[] ret = new int[list.size()];
    for (int i = 0; i < ret.length; i++) {
        ret[i] = list.get(i);
    }
    return ret;
}

/**
 * Eats up the inferior duplicates from the temp list
 *
 * @param tmp    tmp list
 * @param tmpIdx the idx' we want to consume
 * @param tmpi   the current tmp list index
 * @return the new tmp list index
 */
private static int consumeDuplicates(int[] tmp, int tmpIdx, int tmpi) {
    while (tmpi < tmp.length) {
        int nextTmp = tmp[tmpi];
        
        // More code here...
    }
}
int nextTmpIdx = getSparseIndex(nextTmp);  
if (tmpIdx != nextTmpIdx) {
  return tmpi;  
}
  
tmpi++;  
}

/**
 * Merge this HLL++ instance with another! The power of friends!
 * <p/>
 * This works very similarly to the merge with temp list function.
 * <p/>
 * However, in this case, both lists will need their own delta decoding and neither will
 * have to worry about consuming duplicates.
 *
 * @param other
 * @return the new sparse set
 */
private int[] mergeEstimators(HyperLogLogPlus other) {
  other.mergeTempList();
  int[] tmp = other.getSparseSet();
  mergeTempList();
  int[] set = sparseSet;

  List<Integer> newSet = new ArrayList<Integer>();

  // iterate over each set and merge the result values

  int seti = 0;
  int tmpi = 0;
  while (seti < set.length || tmpi < tmp.length) {
    if (seti >= set.length) {
      newSet.add(tmp[tmpi++]);
    } else if (tmpi >= tmp.length) {
      newSet.add(set[seti++]);
    } else {
      int setVal = set[seti];
      int tmpVal = tmp[tmpi];

      if (getSparseIndex(setVal) == getSparseIndex(tmpVal)) {
        newSet.add(Math.min(setVal, tmpVal));
        tmpi++;
        seti++;
      } else if (getSparseIndex(setVal) < getSparseIndex(tmpVal)) {
        newSet.add(setVal);
        seti++;
      } else {  
        newSet.add(tmpVal);
        tmpi++;
      }
    }
  }
  return newSet;
}
else {
    newSet.add(tmpVal);
    tmpi++;
    
}
}
return toIntArray(newSet);

@Override
public int sizeof() {
    if (registerSet == null) {
        return 4 * RegisterSet.getSizeForCount((int) Math.pow(2, p));
    }
    return registerSet.size * 4;
}

@Override
public byte[] getBytes() throws IOException {
    ByteArrayOutputStream baos = new ByteArrayOutputStream();
    DataOutputStream dos = new DataOutputStream(baos);
    // write version flag (always negative)
    dos.writeInt(-VERSION);
    Varint.writeUnsignedVarInt(p, dos);
    Varint.writeUnsignedVarInt(sp, dos);
    switch (format) {
        case NORMAL:
            Varint.writeUnsignedVarInt(0, dos);
            Varint.writeUnsignedVarInt(registerSet.size * 4, dos);
            for (int x : registerSet.readOnlyBits()) {
                dos.writeInt(x);
            }
            break;
        case SPARSE:
            Varint.writeUnsignedVarInt(1, dos);
            mergeTempList();
            Varint.writeUnsignedVarInt(sparseSet.length, dos);
            int prevMergedDelta = 0;
            for (int k : sparseSet) {
                Varint.writeUnsignedVarInt(k - prevMergedDelta, dos);
                prevMergedDelta = k;
            }
            break;
    }
    return baos.toByteArray();
}
private void writeBytes(DataOutput serializedByteStream) throws IOException {
    serializedByteStream.write(getBytes());
}

/**
 * Script-esque function that handles preparing to and executing merging
 * the sparse set and the temp list.
 * <p/>
 * Set up the delta encoding, sort the temp list, merge the lists, blow up the temp list.
 * <p/>
 * Exposed for testing purposes
 */
protected void mergeTempList() {
    int[] retSet = sparseSet;
    if (tmpIndex > 0) {
        int[] sortedSet = sortEncodedSet(tmpSet, tmpIndex);
        retSet = merge(sparseSet, sortedSet);
        tmpIndex = 0;
    }
    sparseSet = retSet == null ? new int[0] : retSet;
}

// exposed for testing
int[] sortEncodedSet(int[] encodedSet, int validIndex) {
    List<Integer> sortedList = new ArrayList<Integer>(validIndex);
    for (int i = 0; i < validIndex; i++) {
        int k = encodedSet[i];
        sortedList.add(k);
    }
    Collections.sort(sortedList, new Comparator<Integer>() {
        @Override
        public int compare(Integer left, Integer right) {
            if (left.equals(right)) {
                return 0;
            }
            int leftIndex = getSparseIndex(left);
            int rightIndex = getSparseIndex(right);
            if (leftIndex < rightIndex) {
                return -1;
            } else if (rightIndex < leftIndex) {
                return 1;
            }
            int leftHash = getEncodedHash(left);
            int rightHash = getEncodedHash(right);
            if (leftHash < rightHash) {
                return -1;
            } else if (rightHash < leftHash) {
                return 1;
            }
        }
    });
    return sortedList;
}
```java
    return 1;
    
    return 0;
  }
})
return toIntArray(sortedList);
}

/**
 * Add all the elements of the other set to this set.
 * <p/>
 * If possible, the sparse mode is protected. A switch to the normal mode
 * is triggered only if the resulting set exceed the threshold.
 * <p/>
 * This operation does not imply a loss of precision.
 * 
 * @param other A compatible Hyperloglog++ instance (same p and sp)
 * @throws CardinalityMergeException if other is not compatible
 */
public void addAll(HyperLogLogPlus other) throws HyperLogLogPlusMergeException {
    if (other.sizeof() != sizeof()) {
        throw new HyperLogLogPlusMergeException("Cannot merge estimators of different sizes");
    }

    if (format == Format.NORMAL && other.format == Format.NORMAL) {
        registerSet.merge(other.registerSet);
        return;
    }

    if (format == Format.SPARSE && other.format == Format.SPARSE) {
        sparseSet = mergeEstimators(other);
        // Convert to normal mode if needed.
        // Since offer trigger the switch to the normal mode on only when
        // the tmpSet is full and the threshold is reached, we follow the same
        // behavior here to ease testing
        if (sparseSet.length > sparseSetThreshold + sortThreshold) {
            convertToNormal();
        }
        return;
    }

    if (format == Format.SPARSE && other.format == Format.NORMAL) {
        convertToNormal();
        registerSet.merge(other.registerSet);
        return;
    }

    if (format == Format.NORMAL && other.format == Format.SPARSE) {
```
// Iterating over other's sparse set and updating only required indexes
// of this' register set is several orders of magnitude faster than copying
// and converting other to normal mode. This use case is quite common since
// we tend to aggregate small sets to large sets.
other.mergeTempList();
for (int i = 0; i < other.sparseSet.length; i++) {
    int k = other.sparseSet[i];
    int idx = other.getIndex(k, p);
    int r = other.decodeRunLength(k);
    registerSet.updateIfGreater(idx, r);
}
return;
}

throw new IllegalStateException("Unhandled HLL++ merge combination");
}

/**
 * Merge this HLL++ with a bunch of others! The power of minions!
 * <p/>
 * Most of the logic consists of case analysis about the state of this HLL++ and each one it wants to merge
 * with. If either of them is 'normal' mode then the other converts to 'normal' as well. A touching sacrifice.
 * 'Normal's combine just like regular HLL estimators do.
 * <p/>
 * If they happen to be both sparse, then it checks if their combined size would be too large and if so, they get
 * relegated to normal mode anyway. Otherwise, the mergeEstimators function is called, and a new sparse HLL++
 * is born.
 *
 * @param estimators the estimators to merge with this one
 * @return a new estimator with their combined knowledge
 * @throws CardinalityMergeException
 */

@Override
public ICardinality merge(ICardinality... estimators) throws CardinalityMergeException {
    HyperLogLogPlus merged = new HyperLogLogPlus(p, sp);
    merged.addAll(this);

    if (estimators == null) {
        return merged;
    }

    for (ICardinality estimator : estimators) {
        if (!(estimator instanceof HyperLogLogPlus)) {
            throw new HyperLogLogPlusMergeException("Cannot merge estimators of different class");
        }
        HyperLogLogPlus hll = (HyperLogLogPlus) estimator;
        merged.addAll(hll);
public static class Builder implements IBuilder<ICardinality>, Serializable {

    private final int p;
    private final int sp;

    public Builder(int p, int sp) {
        this.p = p;
        this.sp = sp;
    }

    @Override
    public HyperLogLogPlus build() {
        return new HyperLogLogPlus(p, sp);
    }

    @Override
    public int sizeof() {
        int k = (int) Math.pow(2, p);
        return RegisterSet.getBits(k) * 5;
    }

    public static HyperLogLogPlus build(byte[] bytes) throws IOException {
        ByteArrayInputStream bais = new ByteArrayInputStream(bytes);
        DataInputStream oi = new DataInputStream(bais);
        int version = oi.readInt();
        // the new encoding scheme includes a version field
        // that is always negative. If the version field
        // is not present then we'll use the legacy
// decoding method
if (version < 0) {
    return decodeBytes(oi);
} else {
    // need to re-create this stream
    // because the first int read above
    // is not present in the legacy codec
    bais = new ByteArrayInputStream(bytes);
    oi = new DataInputStream(bais);
    return legacyDecode(oi);
}

public static HyperLogLogPlus build(DataInput oi) throws IOException {
    int version = oi.readInt();
    // the new encoding scheme includes a version field
    // that is always negative. If the version field
    // is not present then we'll use the legacy
    // decoding method
    if (version < 0) {
        return decodeBytes(oi);
    } else {
        return legacyDecode(oi);
    }
}

private static HyperLogLogPlus legacyDecode(DataInput oi) throws IOException {
    int p = oi.readInt();
    int sp = oi.readInt();
    int formatType = oi.readInt();
    if (formatType == 0) {
        int size = oi.readInt();
        byte[] longArrayBytes = new byte[size];
        oi.readFully(longArrayBytes);
        HyperLogLogPlus hyperLogLogPlus = new HyperLogLogPlus(p, sp, new RegisterSet((int) Math.pow(2, p), Bits.getBits(longArrayBytes)));
        hyperLogLogPlus.format = Format.NORMAL;
        return hyperLogLogPlus;
    } else {
        int l;
        List<byte[]> deltaByteSet = new ArrayList<byte[]>();
        while ((l = oi.readInt()) > 0) {
            byte[] longArrayBytes = new byte[l];
            oi.readFully(longArrayBytes, 0, l);
            deltaByteSet.add(longArrayBytes);
        }
        HyperLogLogPlus hyperLogLogPlus = new HyperLogLogPlus(p, sp, deltaByteSet);
        hyperLogLogPlus.format = Format.SPARSE;
private static HyperLogLogPlus decodeBytes(DataInput oi) throws IOException {
    int p = Varint.readUnsignedVarInt(oi);
    int sp = Varint.readUnsignedVarInt(oi);
    int formatType = Varint.readUnsignedVarInt(oi);
    if (formatType == 0) {
        int size = Varint.readUnsignedVarInt(oi);
        byte[] longArrayBytes = new byte[size];
        oi.readFully(longArrayBytes);
        HyperLogLogPlus hyperLogLogPlus = new HyperLogLogPlus(p, sp, new RegisterSet((int) Math.pow(2, p), Bits.getBits(longArrayBytes)));
        hyperLogLogPlus.format = Format.NORMAL;
        return hyperLogLogPlus;
    } else {
        int[] rehydratedSparseSet = new int[Varint.readUnsignedVarInt(oi)];
        int prevDeltaRead = 0;
        for (int i = 0; i < rehydratedSparseSet.length; i++) {
            int nextVal = Varint.readUnsignedVarInt(oi) + prevDeltaRead;
            rehydratedSparseSet[i] = nextVal;
            prevDeltaRead = nextVal;
        }
        HyperLogLogPlus hyperLogLogPlus = new HyperLogLogPlus(p, sp, rehydratedSparseSet);
        hyperLogLogPlus.format = Format.SPARSE;
        return hyperLogLogPlus;
    }
}

@SuppressWarnings("serial")
protected static class HyperLogLogPlusMergeException extends CardinalityMergeException {

    public HyperLogLogPlusMergeException(String message) {
        super(message);
    }
}

private Object writeReplace() {
    return new SerializationHolder(this);
}

/**
 * This class exists to support Externalizable semantics for
 * HyperLogLog objects without having to expose a public
 * constructor, public write/read methods, or pretend final
 * fields aren't final.
* In short, Externalizable allows you to skip some of the more
* verbose meta-data default Serializable gets you, but still
* includes the class name. In that sense, there is some cost
* to this holder object because it has a longer class name. I
* imagine people who care about optimizing for that have their
* own work-around for long class names in general, or just use
* a custom serialization framework. Therefore we make no attempt
* to optimize that here (eg. by raising this from an inner class
* and giving it an unhelpful name).
*/

private static class SerializationHolder implements Externalizable {

    HyperLogLogPlus hyperLogLogHolder;

    public SerializationHolder(HyperLogLogPlus hyperLogLogHolder) {
        this.hyperLogLogHolder = hyperLogLogHolder;
    }

    /**
     * required for Externalizable
     */
    public SerializationHolder() {
    }

    @Override
    public void writeExternal(ObjectOutput out) throws IOException {
        hyperLogLogHolder.writeBytes(out);
    }

    @Override
    public void readExternal(ObjectInput in) throws IOException, ClassNotFoundException {
        hyperLogLogHolder = Builder.build(in);
    }

    private Object readResolve() {
        return hyperLogLogHolder;
    }
}
/*
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package com.clearspring.analytics.stream;

import java.util.List;

public interface ISampleSet<T> {
    long put(T element);
    long put(T element, int incrementCount);
    T removeRandom();
    T peek();
    List<T> peek(int k);
    int size();
    long count();
}

package com.clearspring.analytics.stream;
import java.util.ArrayList;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.Random;

public class SampleSet<T> implements ISampleSet<T> {

    private Map<T, Node<T>> sampleMap;
    private int size;
    private long count;
    private Random random;

    /**
     * Element with the highest frequency in the set
     */
    private Node<T> head;

    /**
     * Element with the lowest frequency in the set
     */
    private Node<T> tail;

    public SampleSet() {
        this(7);
    }

    public SampleSet(int capacity) {
        this(capacity, new Random());
    }

    public SampleSet(int capacity, Random random) {
        sampleMap = new HashMap<T, Node<T>>(capacity);
        this.random = random;
    }

    public T peek() {
        return (head != null) ? head.element : null;
    }

    public List<T> peek(int k) {
        List<T> topK = new ArrayList<T>(k);
        for (Node<T> itr = head; itr != null && topK.size() < k; itr = itr.next) {
            topK.add(itr.element);
        }
        return topK;
    }
}
public long put(T element) {
    return put(element, 1);
}

public long put(T element, int incrementCount) {
    Node<T> node = sampleMap.get(element);
    if (node != null) {
        node.count = node.count + incrementCount;
        promote(node);
    } else {
        node = new Node<T>();
        node.element = element;
        node.count = incrementCount;
        node.prev = tail;
        if (tail != null) {
            tail.next = node;
        }
        tail = node;
        if (head == null) {
            head = node;
        }
        sampleMap.put(element, node);
        size++;
    }
    count++;
    return node.count;
}

public T removeRandom() {
    double p = random.nextDouble();
    long weight = 0;
    for (Node<T> itr = head; itr != null; itr = itr.next) {
        weight += itr.count;
        if (p < weight / (double) count) {
            itr.count--;
            count--;
            demote(itr);
            if (itr.count == 0) {
                removeMin();
            }
            return itr.element;
        }
    }
    return null;
}

protected T removeMin() {

if (tail == null) {
    return null;
}
size--;
count -= tail.count;
T minElement = tail.element;
tail = tail.prev;
if (tail != null) {
    tail.next = null;
}
sampleMap.remove(minElement);
return minElement;
}

public int size() {
    return size;
}

public long count() {
    return count;
}

protected T peekMin() {
    return tail.element;
}

protected void promote(Node<T> node) {
    // Bring node closer to the head as necessary
    while (node.prev != null && node.count > node.prev.count) {
        // BEFORE head... [A]node.prev.prev --> [B]node.prev --> [C]node --> [D]node.next ...tail
        // AFTER  head... [A]node.prev.prev --> [C]node --> [B]node.prev --> [D]node.next ...tail
        Node<T> b = node.prev, c = node, d = node.next, a = (b == null) ? null : b.prev;

        // Re-link each of 3 neighboring pairs
        if (a != null) {
            a.next = c;
        }
        c.prev = a;

        c.next = b;
        b.prev = c;

        b.next = d;
        if (d != null) {
            d.prev = b;
        }
    }
    // B and C may have switched head/tail roles
if (head == b) {
    head = c;
}
if (tail == c) {
    tail = b;
}
}
}

protected void demote(Node<T> node) {
    // Bring node closer to the tail as necessary
    while (node.next != null && node.count < node.next.count) {
        // BEFORE head... [A]node.prev --> [B]node --> [C]node.next --> [D]node.next.next ...tail
        // AFTER  head... [A]node.prev --> [C]node.next --> [B]node --> [D]node.next.next ...tail
        Node<T> a = node.prev, b = node, c = node.next, d = (c == null) ? null : c.next;
        // Re-link each of 3 neighboring pairs
        if (a != null) {
            a.next = c;
        }
        c.prev = a;
        c.next = b;
        b.prev = c;
        if (d != null) {
            d.prev = b;
        }
        b.next = d;
        // B and C may have switched head/tail roles
        if (head == b) {
            head = c;
        }
        if (tail == c) {
            tail = b;
        }
    }
}

private class Node<E> {
    private Node<E> next;
    private Node<E> prev;
    private E element;
    private long count;
}
/**
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 */

package com.clearspring.analytics.util;

import java.util.ConcurrentModificationException;
import java.util.Iterator;

public class DoublyLinkedList<T> implements Iterable<T> {

    protected int size;
    protected ListNode2<T> tail;
    protected ListNode2<T> head;

    /**
     * Append to head of list
     */
    public ListNode2<T> add(T value) {
        ListNode2<T> node = new ListNode2<T>(value);
        if (size++ == 0) {
            tail = node;
        } else {
            node.prev = head;
            head.next = node;
        }
        head = node;

        return node;
    }

    /**
     * Prepend to tail of list
     */
    public ListNode2<T> enqueue(T value) {
        ListNode2<T> node = new ListNode2<T>(value);
        if (size++ == 0) {
            tail = node;
        } else {
            node.prev = head;
            head.prev = node;
        }

        return node;
    }
}
ListNode2<T> node = new ListNode2<T>(value);
if (size++ == 0) {
    head = node;
} else {
    node.next = tail;
    tail.prev = node;
}

tail = node;

return node;
}

public void add(ListNode2<T> node) {
    node.prev = head;
    node.next = null;

    if (size++ == 0) {
        tail = node;
    } else {
        head.next = node;
    }

    head = node;
}

public ListNode2<T> addAfter(ListNode2<T> node, T value) {
    ListNode2<T> newNode = new ListNode2<T>(value);
    addAfter(node, newNode);
    return newNode;
}

public void addAfter(ListNode2<T> node, ListNode2<T> newNode) {
    newNode.next = node.next;
    newNode.prev = node;
    node.next = newNode;
    if (newNode.next == null) {
        head = newNode;
    } else {
        newNode.next.prev = newNode;
    }
    size++;
}

public void remove(ListNode2<T> node) {
    if (node == tail) {
        tail = node.next;
    } else {

    }
}
```java
    node.prev.next = node.next;
}

if (node == head) {
    head = node.prev;
} else {
    node.next.prev = node.prev;
}
    size--;
}

public int size() {
    return size;
}

@Override
public Iterator<T> iterator() {
    return new DoublyLinkedListIterator(this);
}

protected class DoublyLinkedListIterator implements Iterator<T> {

    protected DoublyLinkedList<T> list;
    protected ListNode2<T> itr;
    protected int length;

    public DoublyLinkedListIterator(DoublyLinkedList<T> list) {
        this.list = list;
        this.itr = list.tail;
        this.length = list.size;
    }

    @Override
    public boolean hasNext() {
        return itr != null;
    }

    @Override
    public T next() {
        int length = list.size;
        if (length != list.size) {
            throw new ConcurrentModificationException();
        }
        T next = itr.value;
        itr = itr.next;
        return next;
    }
```
@Override
public void remove() {
    throw new UnsupportedOperationException();
}

}

public T first() {
    return tail == null ? null : tail.getValue();
}

public T last() {
    return head == null ? null : head.getValue();
}

public ListNode2<T> head() {
    return head;
}

public ListNode2<T> tail() {
    return tail;
}

public boolean isEmpty() {
    return size == 0;
}

@SuppressWarnings("unchecked")
public T[] toArray() {
    T[] a = (T[]) new Object[size];
    int i = 0;
    for (T v : this) {
        a[i++] = v;
    }
    return a;
}

}

1.872 stream-consume 0.1.0
1.872.1 Available under license:

# stream-consume

A node module ensures a Readable stream continues flowing if it's not piped to another destination.

npm install stream-consume
## Usage

Simply pass a stream to `stream-consume`. Both legacy streams and streams2 are supported.

```js
var consume = require('stream-consume');

consume(readableStream);
```

## Details

Only Readable streams are processed (as determined by presence of `readable` property and a `resume` property that is a function). If called with anything else, it's a NOP.

For a streams2 stream (as determined by presence of a `_readableState` property), nothing is done if the stream has already been piped to at least one other destination.

`resume()` is used to cause the stream to continue flowing.

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1.873 stream-counter 0.2.0

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1.874 string-length 1.0.1

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1.875 string_decoder 0.10.31

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1.877 stringify-object 1.0.1

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1.878 stringstream 0.0.4

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1.880 StringTemplate 3.2.1
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1.881 strip-ansi 3.0.0

1.881.1 Available under license:

```
# strip-ansi ![Build Status](https://travis-ci.org/sindresorhus/strip-ansi.svg?branch=master)

> Strip [ANSI escape codes](http://en.wikipedia.org/wiki/ANSI_escape_code)

## Install
```
$ npm install --save strip-ansi
```

## Usage
```
var stripAnsi = require('strip-ansi');

stripAnsi('[4mcake[0m');
//=> 'cake'
```

## Related
- [strip-ansi-cli](https://github.com/sindresorhus/strip-ansi-cli) - CLI for this module
- [has-ansi](https://github.com/sindresorhus/has-ansi) - Check if a string has ANSI escape codes
- [ansi-regex](https://github.com/sindresorhus/ansi-regex) - Regular expression for matching ANSI escape codes
- [chalk](https://github.com/sindresorhus/chalk) - Terminal string styling done right

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1.885 strip-json-comments 0.1.3

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1.887 success-symbol 0.1.0

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1.888 supports-color 2.0.0

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> Detect whether a terminal supports color

```bash
$ npm install --save supports-color
```

## Usage

```
var supportsColor = require('supports-color');

if (supportsColor) {
  console.log('Terminal supports color');
}
```

It obeys the `--color` and `--no-color` CLI flags.

For situations where using `--color` is not possible, add an environment variable `FORCE_COLOR` with any value to force color. Trumps `--no-color`.

## Related
- [supports-color-cli](https://github.com/chalk/supports-color-cli) - CLI for this module
- [chalk](https://github.com/chalk/chalk) - Terminal string styling done right

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1.890 tachyon 0.5.0

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# Originally written by Per Bothner <per@bothner.com>.
# Please send patches to <config-patches@gnu.org>. Submit a context
# diff and a properly formatted ChangeLog entry.
#
# This script attempts to guess a canonical system name similar to
# config.sub. If it succeeds, it prints the system name on stdout, and
# exits with 0. Otherwise, it exits with 1.
#
# The plan is that this can be called by configure scripts if you
# don't specify an explicit build system type.
* Angelos D. Keromytis (kermit@csd.uch.gr) and
* Niels Provos (provos@physnet.uni-hamburg.de).
* This code was written by John Ioannidis for BSD/OS in Athens, Greece,
* Ported to OpenBSD and NetBSD, with additional transforms, in December 1996,
* by Angelos D. Keromytis.
* Additional transforms and features in 1997 and 1998 by Angelos D. Keromytis
* and Niels Provos.
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1.898 thin 1.6.4

1.899 thin 1.6.1
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#!/usr/bin/env rackup -s thin
#
# async_chat.ru
# raggio/thin
Thin is a Ruby web server that glues together 3 of the best Ruby libraries in web history:

* The Mongrel parser: the root of Mongrel speed and security
* Event Machine: a network I/O library with extremely high scalability, performance and stability
* Rack: a minimal interface between webservers and Ruby frameworks

Which makes it, with all humility, the most secure, stable, fast and extensible Ruby web server bundled in an easy to use gem for your own pleasure.

Site:  http://code.macournoyer.com/thin/
Group: http://groups.google.com/group/thin-ruby/topics
Bugs:  http://github.com/macournoyer/thin/issues
Code:  http://github.com/macournoyer/thin
IRC:   #thin on freenode

Installation
=============  
For the latest stable version:

'gem install thin'

Or from source:

...  
git clone git://github.com/macournoyer/thin.git
cd thin
rake install  
...

Usage
=====
A +thin+ script offers an easy way to start your Rack application:

...  
cd to/your/app
When using with Rails and Bundler, make sure to add `gem 'thin'` to your Gemfile.

See example directory for samples and run `thin -h` for usage.

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1.922 udev 147 :0.47.2

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1.952 vegas 0.1.11

1.953 velocity 1.5

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1.955 webhdfs 0.6.0
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1.964 write-file-atomic 1.1.4

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1.965 ws 0.4.32

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# ws: a node.js websocket library#

`ws` is a simple to use websocket implementation, up-to-date against RFC-6455, and [probably the fastest WebSocket library for node.js](http://web.archive.org/web/20130314230536/http://hobbycoding.posterous.com/the-fastest-websocket-module-for-nodejs).

Passes the quite extensive Autobahn test suite. See http://einaros.github.com/ws for the full reports.
Comes with a command line utility, `wscat`, which can either act as a server (--listen), or client (--connect); Use it to debug simple websocket services.

## Protocol support ##

* **Hixie draft 76** (Old and deprecated, but still in use by Safari and Opera. Added to ws version 0.4.2, but server only. Can be disabled by setting the `disableHixie` option to true.)
* **HyBi drafts 07-12** (Use the option `protocolVersion: 8`, or argument `-p 8` for wscat)
* **HyBi drafts 13-17** (Current default, alternatively option `protocolVersion: 13`, or argument `-p 13` for wscat)

*See the echo.websocket.org example below for how to use the `protocolVersion` option._

## Usage ##

### Installing ###

`npm install ws`

### Sending and receiving text data ###

```js
var WebSocket = require('ws');
var ws = new WebSocket('ws://www.host.com/path');
ws.on('open', function() {
    ws.send('something');
});
ws.on('message', function(data, flags) {
    // flags.binary will be set if a binary data is received
    // flags.masked will be set if the data was masked
});
```

### Sending binary data ###

```js
var WebSocket = require('ws');
var ws = new WebSocket('ws://www.host.com/path');
ws.on('open', function() {
    var array = new Float32Array(5);
    for (var i = 0; i < array.length; ++i) array[i] = i / 2;
    ws.send(array, {binary: true, mask: true});
});
```

Setting `mask`, as done for the send options above, will cause the data to be masked according to the websocket protocol. The same option applies for text data.
### Server example ###

```js
var WebSocketServer = require('ws').Server;
var wss = new WebSocketServer({port: 8080});
wss.on('connection', function(ws) {
    ws.on('message', function(message) {
        console.log('received: %s', message);
    });
    ws.send('something');
});
```
### echo.websocket.org demo ###

```
```var WebSocket = require('ws');
var ws = new WebSocket('ws://echo.websocket.org/', {protocolVersion: 8, origin: 'http://websocket.org'});
ws.on('open', function() {
    console.log('connected');
    ws.send(Date.now().toString(), {mask: true});
});
ws.on('close', function() {
    console.log('disconnected');
});
ws.on('message', function(data, flags) {
    console.log('Roundtrip time: ' + (Date.now() - parseInt(data)) + 'ms', flags);
    setTimeout(function() {
        ws.send(Date.now().toString(), {mask: true});
    }, 500);
});
```

### wscat against echo.websocket.org ###

```
$ npm install -g ws
$ wscat -c ws://echo.websocket.org
  connected (press CTRL+C to quit)
  > hi there
  < hi there
  > are you a happy parrot?
  < are you a happy parrot?
```

### Other examples ###

For a full example with a browser client communicating with a ws server, see the examples folder.

Note that the usage together with Express 3.0 is quite different from Express 2.x. The difference is expressed in the two different serverstats-examples.

Otherwise, see the test cases.

### Running the tests ###

`make test`

## API Docs ##

See the doc/ directory for Node.js-like docs for the ws classes.
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1.966 xdg-basedir 1.0.1

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1.968 xmlbuilder 0.4.2
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# xmlbuilder-js

An XMLBuilder for [node.js](http://nodejs.org/) similar to
[java-xmlbuilder](http://code.google.com/p/java-xmlbuilder/).

![Build Status](https://secure.travis-ci.org/oozcitak/xmlbuilder-js.png)

``` sh
```

``` sh
npm install xmlbuilder
```

``` sh
```

### Important:

I had to break compatibility while adding multiple instances in 0.1.3.
As a result, version from v0.1.3 are **not** compatible with previous versions.
### Usage:

```javascript
var builder = require('xmlbuilder');
var xml = builder.create('root')
  .ele('xmlbuilder', {'for': 'node-js'})
  .ele('repo', {'type': 'git'}, 'git://github.com/oozcitak/xmlbuilder-js.git')
  .end({ pretty: true });

console.log(xml);
```

will result in:

```xml
<?xml version="1.0"?>
<root>
  <xmlbuilder for="node-js">
    <repo type="git">git://github.com/oozcitak/xmlbuilder-js.git</repo>
  </xmlbuilder>
</root>
```

If you need to do some processing:

```javascript
var root = builder.create('squares');
root.com('f(x) = x^2');
for(var i = 1; i <= 5; i++)
{
  var item = root.ele('data');
  item.att('x', i);
  item.att('y', i * i);
}
```

This will result in:

```xml
<?xml version="1.0"?>
<squares>
  <!-- f(x) = x^2 -->
  <data x="1" y="1"/>
  <data x="2" y="4"/>
  <data x="3" y="9"/>
  <data x="4" y="16"/>
  <data x="5" y="25"/>
</squares>
```
See the [Usage](https://github.com/oozcitak/xmlbuilder-js/wiki/Usage) page in the wiki for more detailed instructions.

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1.969 xmlenc 0.52

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  "scripts": {
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1.974 yajl-ruby 1.2.0

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1.975 zeparser 0.0.5

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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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