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1.7 active-x-obfuscator 0.0.1

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1.12 adm-zip 0.4.4

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* $Id: rawdeflate.js,v 0.5 2013/04/09 14:25:38 dankogai Exp dankogai $
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1.13 adm-zip_deflater.js 0.4.4

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1.14 airbrake 5.1.0

1.15 airbrake-js-client 0.5.8

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1.16 airbrake-ruby 1.2.3

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1.18 akka-actor 2.10-2.3.9

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1.25 angular-bootstrap 0.13.0

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1.26 angular-cache 3.0.3

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1.27 angular-dialog-service 5.2.8

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1.28 angular-google-analytics 0.0.9

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1.29 angular-google-maps 2.0.6

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1.30 angular-nl2br-filter 1.0.3

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1.31 angular-qrcode 5.1.0

1.32 angular-resource 1.3.11

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1.35 angular-spinner 0.8.0

1.36 angular-ui-router0 0.2.12

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1.38 ansi 0.3.0

1.38.1 Available under license :

ansi.js
==========
Advanced ANSI formatting tool for Node.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

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

// You can chain your calls forever:
cursor
 .red()                // Set font color to red
 .bg.grey()            // Set background color to grey
 .write('Hello World!') // Write 'Hello World!' to stdout
 .bg.reset()           // Reset the bgcolor before writing the trailing \n,
                       //      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

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

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

Install

```
$ npm install --save ansi-regex
```

Usage

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

ansiRegex().test('\u001b[4mcake\u001b[0m');
//=> true

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

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

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1.43 ansi-styles 2.1.0

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

> [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.

Install

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

Usage

```js
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`
- `bgCyan`
- `bgWhite`

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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1.44 ansi-wrap 0.1.0

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1.46 ansicolors 0.2.1

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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://re-becca.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

1.62.1 Available under license :

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1.63 arr-diff 1.1.0

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1.64 arr-flatten 1.0.1

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1.65 arr-pm 0.0.10

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1.67 array-filter 0.0.1

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array-filter

`Array#filter` for older browsers.

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[![build status](https://secure.travis-ci.org/juliangruber/array-filter.png)](http://travis-ci.org/juliangruber/array-filter)

Usage

```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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1.75 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

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1.78 async 0.2.10-0

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1.79 async 1.4.0

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(1)](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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1.88 base64-url 1.2.1

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1.90 basic-auth 1.0.3

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1.91 basic-auth 1.0.0

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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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simgr - Simple Image Resizer [![Build Status](https://travis-ci.org/expressjs/basic-auth-connect.png)](https://travis-ci.org/expressjs/basic-auth-connect)

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)`.

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

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1.93 batch 0.5.2

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batch

 Simple async batch with concurrency control and progress reporting.

Installation

```
$ 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){

});
```

Progress events

 Contain the "job" index, response value, duration information, and completion data.

```js
{ index: 1,
 value: 'bar',
 pending: 2,
 total: 3,
 complete: 2,
 percent: 66,
 start: Thu Oct 04 2012 12:25:53 GMT-0700 (PDT),
 end: Thu Oct 04 2012 12:25:53 GMT-0700 (PDT),
 duration: 0 }
```

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1.94 bcrypt-ruby 3.1.7

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1.95 Bean Validation API 1.1.0.Final

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1.96 beeper 1.1.0

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1.97 better_errors 2.1.1

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1.98 binary 0.3.0

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```
{
  "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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1.100 bl 1.0.0

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1.102 block-stream 0.0.8

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1.103 bluebird 2.3.11

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1.104 bluebird 2.9.34

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    title="Promises/A+ 1.1 compliant" align="right" />

[![Build Status](https://travis-ci.org/petkaantonov/bluebird.svg?branch=master)](https://travis-ci.org/petkaantonov/bluebird)
[![coverage-98%](http://img.shields.io/badge/coverage-98%-brightgreen.svg?style=flat)](http://petkaantonov.github.io/bluebird/coverage/debug/index.html)

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#promisejoinpromisethenablevalue-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.

[![Selenium Test Status](https://saucelabs.com/browser-matrix/petka_antonov.svg)](https://saucelabs.com/u/petka_antonov)

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)

<hr>

Support

- Mailing list: [bluebird-js@googlegroups.com](https://groups.google.com/forum/#!forum/bluebird-js)
- IRC: #promises @freenode
- StackOverflow: [bluebird tag](http://stackoverflow.com/questions/tagged/bluebird)
- Bugs and feature requests: [github issue tracker](https://github.com/petkaantonov/bluebird/issues?state=open)

<hr>

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"));
  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 `promise` 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`:

```
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:

```js
//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:

```js
.error(function (e) {
  console.error("unable to read file, because: ", e.message);
});
```

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 typesets 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.

<hr>

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);
    });
  });
});
```

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

```
    at inner (<anonymous>:6:36)
  From previous event:
    at outer (<anonymous>:5:32)
  From previous event:
    at <anonymous>:4:21
    at Object.InjectedScript._evaluateOn (<anonymous>:572:39)
    at Object.InjectedScript._evaluateAndWrap (<anonymous>:531:52)
    at Object.InjectedScript.evaluate (<anonymous>:450:21)
```

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

<hr>

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/)

```
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 paramter 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>
  <caption>The following features can be disabled</caption>
  <thead>
    <tr>
      <th>Feature(s)</th>
      <th>Command line identifier</th>
    </tr>
  </thead>
  <tbody>

    <tr><td><code>.any</code> and <a
href="API.md#promiseanyarraydynamicpromise-values---
promise"><code>Promise.any</code></td><td><code>any</code></td></tr>
    <tr><td><code>.race</code> and <a
href="API.md#promiseracearraypromise-promises---
promise"><code>Promise.race</code></td><td><code>race</code></td></tr>
    <tr><td><code>.call</code> and <a
href="API.md#getstring-propertyname---
promise"><code>.get</code></td><td><code>call_get</code></td></tr>
    <tr><td><code>.filter</code> and <a
href="API.md#promisefilterarraydynamicpromise-values-function-filterer---
promise"><code>Promise.filter</code></td><td><code>filter</code></td></tr>
    <tr><td><code>.map</code> and <a
href="API.md#promisemaparraydynamicpromise-values-function-mapper---
promise"><code>Promise.map</code></td><td><code>map</code></td></tr>
    <tr><td><a href="API.md#reducefunction-reducer--dynamic-initialvalue---
promise"><code>.reduce</code> and <a href="API.md#promisereducearraydynamicpromise-values-function-
reducer--dynamic-initialvalue---
promise"><code>Promise.reduce</code></td><td><code>reduce</code></td></tr>
    <tr><td><code>.props</code> and <a
href="API.md#promisepropsobjectpromise-object---
promise"><code>Promise.props</code></td><td><code>props</code></td></tr>
    <tr><td><code>.settle</code> and <a
href="API.md#promisesettlearraydynamicpromise-values---
promise"><code>Promise.settle</code></td><td><code>settle</code></td></tr>
    <tr><td><code>.some</code> and <a
href="API.md#promisesomearraydynamicpromise-values-int-count---
promise"><code>Promise.some</code></td><td><code>some</code></td></tr>
    <tr><td><a href="API.md#nodeifyfunction-callback---
promise"><code>.nodeify</code></td><td><code>nodeify</code></td></tr>
    <tr><td><a href="API.md#promisecoroutinegeneratorfunction-generatorfunction---

function"><code>Promise.coroutine</code> and <code>Promise.spawn</code></td><td><code>generators</code></td></tr>
<tr><td>Progression</td><td><code>progress</code></td></tr>
<tr><td>Promisification</td><td><code>promisify</code></td></tr>
<tr><td>Cancellation</td><td><code>cancel</code></td></tr>
<tr><td>Timers</td><td><code>timers</code></td></tr>
<tr><td>Resource management</td><td><code>using</code></td></tr>

</tbody>
</table>

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

After that you can run:

```
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:

```
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)

<hr>

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.

<hr>

What is the sync build?

You may now use sync build by:

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

The sync build is provided to see how forced asynchronity 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:

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

Appears as this in the sync build:

```
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.

```js
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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1.105 body-parser 1.13.3

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1.106 bonecp 0.8.0.RELEASE

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1.110 boon-boon-bundle 0.33

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1.113 bosun 0.5.0-rc4

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BSON library for Go

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package github

```
import "fmt"

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
// GitHub API docs: http://developer.github.com/v3/pulls/
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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#
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1.114 Bower 1.7.9

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1.115 bower-endpoint-parser 0.2.2

1.116 bower-json 0.4.0

1.117 bower-logger 0.2.2

1.118 bower-registry-client 1.0.0

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1.119 brace-expansion 1.1.2

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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}}')
// => ['ppp', 'pppconfig', 'pppoe', 'pppoeconf']
```

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 seperated 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
```

Contributors

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

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1.120 brace-expansion 1.1.0

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expand('file{00..10..5}.jpg')
// => ['file00.jpg', 'file05.jpg', 'file10.jpg']

expand('{{A..C},{a..c}}')
// => ['A', 'B', 'C', 'a', 'b', 'c']

expand('ppp{,config,oe{,conf}}')
// => ['ppp', 'pppconfig', 'pppoe', 'pppoeconf']
```

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```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
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1.121 braces 1.8.2

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1.122 bsh 2.0b4

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1.124 bson_ext 1.5.1

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1.125 buffers 0.1.1

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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.

Install

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

Usage

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

Build

To create a new browser build:

```sh
$ 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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Bytes utility

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

Usage

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

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

Name	Type	Description
value	`number`	Value in bytes
options	`Object`	Conversion options

Options

Property	Type	Description
thousandsSeparator	`string`|`null`	Example of values: `' '`, `','` and `'.'`... Default value to `' '`.

Returns

Name	Type	Description
results	`string`|`null`	Return null upon error. String value otherwise.

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

Name	Type	Description
value	`string`	String to parse.

Returns

Name	Type	Description
results	`number`|`null`	Return null upon error. Value in bytes otherwise.

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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[![npm](https://img.shields.io/npm/l/express.svg)](https://github.com/visionmedia/bytes.js/blob/master/LICENSE)

1.131 cabin 0.7.1

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1.133 camelcase 2.0.1

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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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1.138 caseless 0.9.0

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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 :

```
{
  "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",
     "monad",
     "monadic"
  ],
  "author" : "James Halliday <mail@substack.net> (http://substack.net)",
  "license" : "MIT/X11",
  "engine" : { "node" : ">=0.4.0" }
}
```

1.142 chalk 1.1.1

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<h1 align="center">

 <img width="360"
src="https://cdn.rawgit.com/chalk/chalk/19935d6484811c5e468817f846b7b3d417d7bf4a/logo.svg" alt="chalk">

</h1>

> Terminal string styling done right

[![Build Status](https://travis-ci.org/chalk/chalk.svg?branch=master)](https://travis-ci.org/chalk/chalk)
[![Coverage
Status](https://coveralls.io/repos/chalk/chalk/badge.svg?branch=master)](https://coveralls.io/r/chalk/chalk?branch=
master)
[](https://www.youtube.com/watch?v=9auOCbH5Ns4)

[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](https://github.com/yeoman/yo/issues/68). 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

```
$ 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/chalk/ansi-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://github.com/chalk/has-ansi) - Check if a string has ANSI escape codes
- [ansi-regex](https://github.com/chalk/ansi-regex) - Regular expression for matching ANSI escape codes
- [wrap-ansi](https://github.com/chalk/wrap-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

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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.

[![NPM](https://nodei.co/npm-dl/chokidar.png)](https://nodei.co/npm/chokidar/)
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[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),
and [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:

```
  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,

 ignored: '*.txt',
 ignoreInitial: false,
 followSymlinks: true,
 cwd: '.',

 usePolling: true,
 interval: 100,
 binaryInterval: 300,
 alwaysStat: false,
 depth: 99,
 awaitWriteFinish: {
   stabilityThreshold: 2000,
```

```
  pollInterval: 100
 },

 ignorePermissionErrors: false,
 atomic: true
});

```

API

`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/paths 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`](http://nodejs.org/api/fs.html#fs_class_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
`fsevents` watching interface if available. When set to `true` explicitly
and `fsevents` 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`](http://nodejs.org/api/fs.html#fs_class_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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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

* Brian Langel

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1.157 code-point-at 1.0.0

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code-point-at [![Build Status](https://travis-ci.org/sindresorhus/code-point-at.svg?branch=master)](https://travis-ci.org/sindresorhus/code-point-at)

> ES2015 [`String#codePointAt()`](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String/codePointAt) ponyfill

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

Install

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

Usage

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

codePointAt('');
//=> 128052

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

API

codePointAt(input, [position])

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1.161 colors 0.6.2

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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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1.165 commander 2.8.1

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Commander.js

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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.

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

/**
* Module dependencies.
*/

var program = require('commander');

program
 .version('0.0.1')
 .option('-p, --peppers', 'Add peppers')
 .option('-P, --pineapple', 'Add pineapple')
 .option('-b, --bbq-sauce', 'Add bbq sauce')
 .option('-c, --cheese [type]', 'Add the specified type of cheese [marble]', 'marble')
 .parse(process.argv);

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

```js
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')
 .usage('[options] <file ...>')
 .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.verbose);
console.log(' args: %j', program.args);
```

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);
```

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

```js
// file: ./examples/pm
var program = require('..');

program
 .version('0.0.1')
 .command('install [name]', 'install one or more packages')
 .command('search [query]', 'search with optional query')
 .command('list', 'list packages installed')
 .parse(process.argv);
```

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
```

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.

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

/**
* Module dependencies.
*/

var program = require('commander');

program
 .version('0.0.1')
 .option('-f, --foo', 'enable some foo')
 .option('-b, --bar', 'enable some bar')
 .option('-B, --baz', 'enable some baz');

// must be before .parse() since
// node's emit() is immediate

program.on('--help', function(){
 console.log('  Examples:');
 console.log('');
 console.log('    $ custom-help --help');
 console.log('    $ custom-help -h');
 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:

```js
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

```js
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();
   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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1.166 commander 2.1.0

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1.185 commons-pool 1.6

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1.186 commons-pool2 2.2

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1.187 compress-lzf 1.0.0

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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
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1.188 compressible 2.0.5

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1.189 concat-map 0.0.1

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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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1.197 cookie-parser 1.3.5

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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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1.199 core-util-is 1.0.1

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1.200 corefines 1.9.0

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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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1.205 csrf 3.0.0

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1.207 ctype 0.5.3

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1.212 D3 3.4.8

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1.213 daemons 1.2.3

1.214 daemons 1.1.9

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1.215 daemons/setup.rb 1.1.9

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1.219 dbus 1.2.24

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1.221 dcjs 1.6.0

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1.222 debug 2.2.0

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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\n');
}).listen(3000, function(){
 debug('listening');
});

// fake worker of some kind

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

Example _worker.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:

 ![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.

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

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:

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 :

debug

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

Installation

```
$ 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\n');
}).listen(3000, function(){
 debug('listening');
});

// fake worker of some kind

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

Example _worker.js_:

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

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

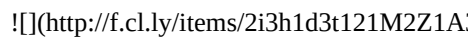
The __DEBUG__ environment variable is then used to enable these based on space or comma-delimited names. Here are some examples:

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

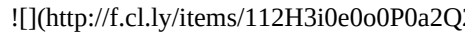
 ![debug worker](http://f.cl.ly/items/1X413v1a3M0d3C2c1E0i/Screenshot.png)

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.



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 &`)



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`. 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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1.224 decompress-zip 0.1.0

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1.225 deep-equal 1.0.1

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1.226 deep-extend 0.2.11

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1.227 defaults 1.0.3

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1.228 delayed-stream 1.0.0

1.228.1 Available under license :

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1.229 delayed-stream 0.0.5

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1.230 delegates 0.1.0

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delegates

Node method and accessor delegation utilty.

Installation

```
$ 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')
 .access('method')
 .access('path')
 .access('body')
 .access('host')
 .access('url')
 .getter('subdomains')
 .getter('protocol')
 .getter('header')
 .getter('stale')
 .getter('fresh')
 .getter('secure')
 .getter('ips')
 .getter('ip')
```

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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1.231 depd 1.0.1

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1.232 deprecated 0.0.1

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1.233 destroy 1.0.3

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Destroy

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[![Build status][travis-image]][travis-url]
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[![Dependency Status][david-image]][david-url]
[![License][license-image]][license-url]
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Destroy a stream.

API

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

var fs = require('fs')
var stream = fs.createReadStream('package.json')
destroy(stream)
```

[npm-image]: https://img.shields.io/npm/v/destroy.svg?style=flat-square
[npm-url]: https://npmjs.org/package/destroy
[github-tag]: http://img.shields.io/github/tag/stream-utils/destroy.svg?style=flat-square
[github-url]: https://github.com/stream-utils/destroy/tags
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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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1.240 dhcp-common 4.1.1 :31.P1.el6

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1.242 disruptor-3.3.0 3.3.0

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1.243 domain_name 0.5 :20160310

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* lib/domain_name/etld_data.rb

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1.244 druid 2.2.1

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```
#!/usr/bin/env python3

import json
import sys

import requests
```

```
# tested with python 3.6 and requests 2.13.0

if len(sys.argv) != 2:
 sys.stderr.write('usage: program <milestone-number>\n')
 sys.stderr.write('Provide the github milestone number, not name. (e.g., 19 instead of 0.10.1)\n')
 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=\"next\"" 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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1.251 elasticsearch 1.0.17

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1.256 elephant-bird-core 4.5

1.257 elephant-bird-elephant-bird 4.5

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1.258 encryptor 1.3.0

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1.259 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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1.262 erubis 2.7.0

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1.263 escape-html 1.0.2

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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)](https://travis-ci.org/sindresorhus/escape-string-regexp)

> Escape RegExp special characters

Install

```sh
$ npm install --save escape-string-regexp
```

```

## Usage

```js
var escapeStringRegexp = require('escape-string-regexp');

var escapedString = escapeStringRegexp('how much $ for a unicorn?');
//=> how much \$ for a unicorn\?

new RegExp(escapedString);
```

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1.265 etag 1.7.0

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```

1.266 etcd-client 0.33

1.267 eventmachine 1.0.3

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1.270 execjs 2.6.0

1.271 exit-hook 1.1.1

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1.273 expand-range 1.8.1

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1.274 express-session 1.11.3

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1.275 extend 3.0.0

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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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Code to allocate and deallocate memory for closures.

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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.
#
# Report bugs to <http://sourceware.org/libffi.html>.
#
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## M4sh Initialization. ##
## -------------------- ##
```

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  Target configuration macros for Motorola 68K.

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Cloned from raw_api.c

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Java_raw_api.c author: Hans-J. Boehm <hboehm@hpl.hp.com>

$Id $

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scriptversion=2009-04-28.21; # UTC

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```

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1.285 filename-regex 2.0.0

1.285.1 Available under license :

filename-regex [![NPM version](https://badge.fury.io/js/filename-regex.svg)](http://badge.fury.io/js/filename-regex)

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

Install with [npm](npmjs.org)

```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

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1.286 finalhandler 0.4.0

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1.287 find-index 0.1.1

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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)

usage
```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

1.288.1 Available under license :

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1.289 first-chunk-stream 1.0.0

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1.290 flagged-respawn 0.3.1

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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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1.294 forever-agent 0.5.2

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1.297 fping 2.4b2

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1.299 fresh 0.3.0

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1.300 fs-write-stream-atomic 1.0.5

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1.301 fstream 1.0.8

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1.302 fstream-ignore 1.0.3

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1.303 gauge 1.2.2

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1.304 gaze 0.5.2

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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

```
npm install generate-function
```

[![build status](http://img.shields.io/travis/mafintosh/generate-function.svg?style=flat)](http://travis-ci.org/mafintosh/generate-function)

Disclamer

Writing code that generates code is hard.
You should only use this if you really, really, really need this for performance reasons (like schema validators / parsers etc).

Usage

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

> Easier stdin

Install

```sh
$ npm install --save get-stdin
```

Usage

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

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

```sh
$ echo unicorns | node example.js
unicorns
```

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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1.309 github 0.2.4

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1.310 glob 3.2.11

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1.311 glob 5.0.14

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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"
 ],
 "engines": {
   "node": "*"
 },
 "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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type `show w'. This is free software, and you are welcome
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1.330 groovy-all 1.8.6

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1.331 gtk2 2.24.23

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```

For portions of the native implementation of slicing-by-8 CRC calculation
in src/main/native/src/org/apache/hadoop/util:

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

/*
LZ4 - Fast LZ compression algorithm
Header File
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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
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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.

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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.)

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That's all there is to it!
HAPROXY's license - 2006/06/15

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.

Since some protocols are found in rare environments (finance, industry, ...),
some of them might be accessible only after signing an NDA. Enforcing GPL on
such modules would only prevent them from ever being implemented, while not
providing anything useful to ordinary users.

For this reason, I *want* to be able to support binary only external modules
when needed, with a GPL core and GPL modules for standard protocols, so that
people fixing bugs don't keep them secretly to try to stay over competition.

The solution was then to apply the LGPL license to the exportable include
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1.342 har-validator 1.8.0

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

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

Install

```shell
# to use in cli
npm install --global har-validator

# to use as a module
```

```
npm install --save har-validator
```

Usage

```
 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)
});
```

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.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) {
 if (e) console.log(e.errors)
});
```

Validate.postData(data [, callback])

Returns `true` or `false`.

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

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

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

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

Validate.record(data [, callback])

Returns `true` or `false`.

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

- **callback**: `Function`

gets two arguments (err, valid)

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

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

Validate.request(data [, callback])

Returns `true` or `false`.

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

- **callback**: `Function`
 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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1.344 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)

Install

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

Usage

```js
var hasAnsi = require('has-ansi');

hasAnsi('\u001b[4mcake\u001b[0m');
//=> true

hasAnsi('cake');
//=> false
```

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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1.345 has-gulplog 0.1.0

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1.347 hashie 3.4.3

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1.348 hawk 2.3.1

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1.351 hbase 0.99.1234 :1

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1.352 hdparm 9.43

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file_io/unix/mktemp.c, strings/apr_strings.c:

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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:

* Based on libdl (dlfcn.c/dlfcn.h) which is
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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:

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* cvt - IEEE floating point formatting routines.
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*

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<link href="./images/favicon.ico" rel="shortcut icon" /></head>
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```
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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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* cvt - IEEE floating point formatting routines.
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*

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1.372 httplog 0.3.2

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1.373 i18n 0.7.0

1.374 i18n 0.6.9

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1.377 imurmurhash-js 0.1.4

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1.380 inflect 0.3.3

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1.385 ini 1.3.4

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{
 "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": {},
 "devDependencies": {
   "tap": "^1.2.0"
 },
 "license": "ISC",
 "files": [
   "ini.js"
 ]
}
```


1.386 inquirer.js 0.10.0

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1.388 interpret 0.6.6

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1.389 intersect 0.0.3

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1.390 iperf 2.0.5 :r0.0

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1.391 ipmitool 1.8.11

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> Return true if a file path is absolute.

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

Install with [npm](npmjs.org)

```bash
npm i is-absolute --save
```

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.
* [is-glob](https://github.com/jonschlinkert/is-glob): Returns `true` if the given string looks like a glob pattern.
* [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.
* [git-config-path](https://github.com/jonschlinkert/git-config-path): Resolve the path to the user's global .gitconfig.

Author

Jon Schlinkert

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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

Install

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

Usage

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

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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1.397 is-builtin-module 1.0.0

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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)](https://travis-ci.org/sindresorhus/is-finite)

> 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

Install

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

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

```
$ 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`

[Code point](https://en.wikipedia.org/wiki/Code_point) of a character.

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1.403 is-my-json-valid 2.12.1

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1.421 jackson-core-asl 1.9.11

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1.424 jackson-mapper-asl 1.9.11

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1.425 jackson-xc 1.8.3

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1.426 jasmine 2.1.1

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1.427 jasminewd 1.1.0

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1.428 jasminewd2 0.0.2

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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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1.431 java-util 0.27.4

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1.432 java-xmlbuilder 0.4

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1.440 javax.mail.glassfish 1.4.1.v201005082020

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   */
// XMLWriter.java - serialize an XML document.
// Written by David Megginson, david@megginson.com
// NO WARRANTY!  This class is in the public domain.
// AttributesImpl.java - default implementation of Attributes.
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/**
* Default implementation of the Attributes interface.
*
* <blockquote>
* <em>This module, both source code and documentation, is in the
* Public Domain, and comes with <strong>NO WARRANTY</strong>.</em>
* See <a href='http://www.saxproject.org'>http://www.saxproject.org</a>
* for further information.
* </blockquote>
*
* <p>This class provides a default implementation of the SAX2
* {@link org.xml.sax.Attributes Attributes} interface, with the
* addition of manipulators so that the list can be modified or
* reused.</p>
```

```
*
* <p>There are two typical uses of this class:</p>
*
* <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>
*
* <p>This class replaces the now-deprecated SAX1 {@link
* org.xml.sax.helpers.AttributeListImpl AttributeListImpl}
* class; in addition to supporting the updated Attributes
* 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)
*/
// NamespaceSupport.java - generic Namespace support for SAX.
// http://www.saxproject.org
// Written by David Megginson
// This class is in the Public Domain.  NO WARRANTY!
# RELAX NG Schema for WSDL 1.1 HTTP Binding
#
#               Written by Kohsuke Kawaguchi
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1.448 JBoss Logging 3 3.1.3.GA

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1.450 jcl-over-slf4j-1.7.5.jar 1.7.5

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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();
   o.write(b);
}

@Override
public void flush() throws IOException {
   commitWrite();
   o.flush();
}

@Override
public void close() throws IOException {
   commitWrite();
   o.close();
}

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 overriden 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

    public OutputStream adapt(ClientRequest request, OutputStream out) throws IOException {
        return out;
    }
}
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* holder.
*/
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.
* <p>
* A hardcoded reference to this class name occurs in the {@link RuntimeDelegate}
* class present in the JAX-RS api jar.
*
* @author Paul.Sandoz@Sun.Com
*/
public class RuntimeDelegateImpl extends AbstractRuntimeDelegate {

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

1.453 jersey-common 2.16

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1.473 jetty-xml 8.1.14.v20131031

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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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1.476 Jna 3.2.4

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1.477 joda-time 2.8.2

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1.479 jquery-rails 3.1.4

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1.481 json 20141113

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1.482 json 1.8.3

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1.483 json 1.8.3

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"",
"cDyfuGwqo0r8cZAkSZIkSQOTXYshZN/xJu5/xjN55tp5f/fYQAOeMLeUzS6Yxa9KIHGcmSZIkSZLo1mxi\n",
"DQGtbUke3bqPH27eS1NyjIHaGMTk3CTI9SPJkiRJkgY+m1iHD3Ct7j3PHmlpe338SgMXT\n",
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"1iCTTCZ5Zvsh7n7n0mW0gUwEdmT+Tv5k5m+LDCXKcnSZIkSZLUKzaxBpH6w43ctbvl1zwLEbFUfBtR7ecmnXP\n",
"xBGsqK7i3PHDc5c5yZJEmSJElK5elS39xL0XDd6dHcmmRUSSZ8Y9dR\n",
"kqT8ZxMrz7248ygra2K2f+WPjdu9m+SAj7NpZr0y4lGOyvYeGGWXIY9ZqOCvJ0BFhxKCy\n",
"vIQV1VVcPHVJUjjOTJEmSJKmfkgYBjAgN5qpLoFcjL2rKyuzyxTOfNpYGCO5yJbVPaV4R\n",
"kqSssImVR7bvP8OmwZRBuvUQ0hKGDuIK5vkC6p3hWDxv4jyvuHD2Z2t1nGTmH6n0xLfjWWwbsP17yp5jpRa

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  }
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 "output_type": "display_data"
}
],
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]
},
{
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```
  "source": [
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 }
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```


1.484 JSON in Java [package org.json] 2011-02-02

1.484.1 Available under license :


```
package org.json;

/*
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```

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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 == '\t');
    switch (c) {
    case 0:
        return null;
    case '"':
    case '\'':
        q = c;
        sb = new StringBuffer();
        for (;;) {
            c = x.next();
            if (c == q) {
                break;
            }
            if (c == 0 || c == '\n' || c == '\r') {
                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 != ',')) {
            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 + ").");
            }
            c = x.next();
        }
    }
}

/**
 * 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('\n') >= 0 || string.indexOf('\r') >= 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);
                    }
                }
                sb.append('"');
            } else {
                sb.append(string);
            }
        }
    }
    sb.append('\n');
    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 x A JSONTokener of the source text.
 * @return A JSONArray of JSONObjects.
 * @throws JSONException
 */
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;
}


/**
 * 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.
 * @param ja A JSONArray of JSONObjects.
 * @return A comma delimited text.
 * @throws JSONException
 */
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
     * output.
     * @param names A JSONArray of strings.
     * @param ja A JSONArray of JSONObjects.
     * @return A comma delimited text.
     * @throws JSONException
     */
    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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1.491 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" : {
    "test" : "tap test"
  },
  "repository" : {
    "type" : "git",
    "url" : "http://github.com/substack/jsonify.git"
  },
  "keywords" : [
    "json",
    "browser"
  ],
  "author" : {
    "name" : "Douglas Crockford",
    "url" : "http://crockford.com/"
  },
  "license" : "Public Domain"
}
```

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

  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)
```

Author

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1.493 jsp-api 2.0

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1.494 jsp-api 2.1

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1.500 junk 1.0.2

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1.501 Kafka_2.10 0.8.1.1

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1.503 karma 0.12.37

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o Memory framework
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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
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If such an object file uses only numerical parameters, data
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1.518 libconfuse 2_7

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1.521 libmng 1.0.10

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/* *                                                                        * */
/* ************************************************************************** */
/* *                                                                        * */
/* * Parts of this software have been adapted from the libpng package.      * */
/* * Although this library supports all features from the PNG specification * */
/* * (as MNG descends from it) it does not require the libpng package.      * */
/* * It does require the zlib library and optionally the IJG jpeg library,  * */
/* * and/or the "little-cms" library by Marti Maria (depending on the       * */
```

```
/* * inclusion of support for JNG and Full-Color-Management respectively.   * */
/* *                                                                       * */
/* * This library's function is primarily to read and display MNG          * */
/* * animations. It is not meant as a full-featured image-editing          * */
/* * component! It does however offer creation and editing functionality    * */
/* * at the chunk level.                                                   * */
/* * (future modifications may include some more support for creation       * */
/* *  and or editing)                                                      * */
/* *                                                                       * */
/* ************************************************************************* */
```

1.522 libpcap 1.8.1

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1.523 libthrift 0.7.0

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1.524 libwebsocket 1.4-chrome43-firefox-36

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1.525 liftoff 2.2.0

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1.530 lodash._createpadding 3.6.1

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1.554 lshw B.02.17

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1.560 map-obj 1.0.1

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> Map object keys and values into a new object

Install

```
$ npm install --save map-obj
```

Usage

```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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1.561 MaxMind GeoIP API 1.2.14

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1.562 md5-hex 1.1.0

1.563 md5-o-matic 0.1.1

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1.568 metrics-graphite 3.0.0

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1.569 metrics-json 3.0.0

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1.590 mixlib-log 1.6.0

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1.595 moment 2.6.0

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1.603 mono-logger 1.1.0

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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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1.607 multi_json 1.11.3

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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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1.625 netty:jar 3.8.0.Final

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
===

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    - Strongtalk assembler, the basis of the files assembler-arm-inl.h,
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      assembler-ia32.cc, assembler-ia32.h, assembler-x64-inl.h,
      assembler-x64.cc, assembler-x64.h, assembler-mips-inl.h,
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    - Valgrind client API header, located at third_party/valgrind/valgrind.h
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1.639 NodeJS 5.7.0

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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
==========

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This package is a JavaScript porting of `wcwidth()` implementation
[by Markus Kuhn](http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c).

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// Original can be found at:
//   https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexorabletash@gmail.com
//   https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Krhonos Typed Array Specification
//   Ref: http://www.khronos.org/registry/typedarray/specs/latest/
//   Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])
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- Strongtalk assembler, the basis of the files assembler-arm-inl.h,
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  assembler-ia32.cc, assembler-ia32.h, assembler-x64-inl.h,
  assembler-x64.cc, assembler-x64.h, assembler-mips-inl.h,
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- Valgrind client API header, located at third_party/valgrind/valgrind.h
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version 1.2.8, April 28th, 2013

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1.644 number-is-nan 1.0.0

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

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

Install

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

Usage

```js
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.

Usage

```` js
var Options = require("options");

// 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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1.663 options 0.0.6

1.664 orchestrator 0.3.7

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1.665 ordered-read-streams 0.1.0

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1.666 origin 2.2.0

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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

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

> io.js 2.3.0 [`os.homedir()`](https://iojs.org/api/os.html#os_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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1.670 os-name v1.0.3

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1.671 os-tmpdir 1.0.1

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> Node.js [`os.tmpdir()`](https://nodejs.org/api/os.html#os_os_tmpdir) ponyfill

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

Use this instead of `require('os').tmpdir()` to get a consistent behaviour on different Node.js versions (even 0.8).

This is actually taken from io.js 2.0.2 as it contains some fixes that haven't bubbled up to Node.js yet.

Install

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

Usage

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

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

API

See the [`os.tmpdir()` docs](https://nodejs.org/api/os.html#os_os_tmpdir).

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1.674 osgi-resource-locator 1.0.1

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1.676 p-throttler 0.1.1

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1.677 package-json 1.2.0

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1.678 paradise 2.0.1_2.10.3

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1.680 parquet-protobuf 1.6.0rc4

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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

```
$ npm install --save path-is-absolute
```

Usage

```js
```

```
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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```

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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1.688 pcre 7.8

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Written by: Philip Hazel
Email local part: ph10
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1.689 pdf-core 0.6.1

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1.690 Percona-Server-MongoDB-36 3.6.4

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mgo - MongoDB driver for Go

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mgo - MongoDB driver for Go

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Written by: Philip Hazel
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zlib.h -- interface of the 'zlib' general purpose compression library
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//
```

```
// See http://www.boost.org/libs/container for documentation.
//
//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <boost/intrusive/detail/mpl.hpp>

#include <cstddef>

namespace boost {
namespace container {
namespace container_detail {

using boost::move_detail::integral_constant;
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::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::identity;
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::bool_;
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;   }
};

}  //namespace container_detail {
}  //namespace container {
}  //namespace boost {

#include <boost/container/detail/config_end.hpp>

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
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//
// See http://www.boost.org/libs/interprocess for documentation.
//
//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif
```

```
#
#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <cstddef>

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_c<Cond::value, T> {};

template <class Cond, class T = void>
```

```
struct disable_if : public enable_if_c<!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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//
// See http://www.boost.org/libs/intrusive for documentation.
//
//////////////////////////////////////////////////////////////////////////////

#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;
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;\
};\
//

#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); \
 }; \
//

#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))); \
};\
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME,
FUNC_NAME) \
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)
\
\
```

```
template <typename Type, class> \
struct TRAITS_NAME \
  : public TRAITS_NAME##_ignore_signature<Type> \
{};\
//

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
```

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Written by: Philip Hazel
Email local part: ph10
Email domain: cam.ac.uk

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zlib.h -- interface of the 'zlib' general purpose compression library
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1.692 perl Time HiRes 1.9712-1

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1.693 perl-Crypt-SSLeay 0.57 :16.4.amzn1

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1.694 pify 2.3.0

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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)](https://travis-ci.org/floatdrop/pinkie-promise)

> [ES2015 Promise](https://people.mozilla.org/~jorendorff/es6-draft.html#sec-promise-objects) ponyfill

Module exports global Promise object (if available) or [`pinkie`](http://github.com/floatdrop/pinkie) Promise polyfill.

Install

```
$ 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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1.698 pixman 0.32.4 :r0

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"author": "Charlie Robbins <charlie.robbins@gmail.com>",
"url": "http://github.com/indexzero/node-pkginfo.git"

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1.701 pkgr 1.4.4

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1.703 polyglot 0.3.5

1.704 portfinder 0.2.1

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1.705 prawn 2.1.0

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1.707 prepend-http 1.0.3

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1.708 preserve 0.2.0

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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
=====

[![Build Status](https://travis-ci.org/calvinmetcalf/process-nextick-args.svg?branch=master)](https://travis-ci.org/calvinmetcalf/process-nextick-args)

```bash
npm install --save process-nextick-args
```

Always be able to pass arguments to process.nextTick, no matter the platform

```js
var nextTick = require('process-nextick-args');

nextTick(function (a, b, c) {
 console.log(a, b, c);
}, 'step', 3,  'profit');
```

1.711 process-nextick-args 1.0.2

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```
{
 "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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1.713 promptly 0.2.0

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1.714 proto-list 1.2.4

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1.715 protobuf 2.6.1

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 * Detect unordered_map in stl_hash.m4.
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 * Fixed warnings about generated constructors not explicitly initializing
   all fields (only present with certain compiler settings).
 * Added generation of field number constants.
Wink Saville <wink@google.com>
 * Fixed initialization ordering problem in logging code.
Will Pierce <willp@nuclei.com>
 * Small patch improving performance of in Python serialization.
Alexandre Vassalotti <alexandre@peadrop.com>
 * Emacs mode for Protocol Buffers (editors/protobuf-mode.el).
Scott Stafford <scott.stafford@gmail.com>
 * Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.
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 * 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.
Michael Kucharski <m.kucharski@gmail.com>
 * Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>
  * 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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1.722 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

1.726 python-consul 0.7.0

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1.729 q 1.4.1

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1.732 qs 2.3.3

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1.736 rack 1.5.5

1.737 rack-protection 1.5.3

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1.738 rack-reverse-proxy 0.11.0

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1.740 rack-test 0.6.2

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1.742 rails_12factor 0.0.3

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1.744 rails_serve_static_assets 0.0.5

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1.747 rake 10.3.2

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1.748 rake 10.4.2

1.749 range-parser 1.0.2

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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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1.752 read 1.0.7

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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": {
```

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  "test": "tap test/*.js"
 },
 "files": [
  "lib/read.js"
 ]
}
```

1.753 read-all-stream 3.0.1

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1.755 read-pkg-up 1.0.1

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1.756 readable-stream 1.1.13

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1.758 readdirp 2.0.0

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1.759 readline2 1.0.1

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1.760 rechoir 0.6.2

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1.761 redent 1.0.0

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1.762 redeyed 0.4.4

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1.764 redis 3.2.2

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1.765 redis-actionpack 4.0.1

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1.766 redis-activesupport 4.1.5

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1.767 redis-collectd-plugin master

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1.769 redis-rack 1.5.0

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1.773 regex-cache 0.4.2

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1.774 registry-url 3.0.3

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1.775 repeat-element 1.1.2

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1.776 repeat-string 1.5.2

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1.777 replace-ext 0.0.1

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1.783 responders 1.1.2

1.784 response-time 2.3.1

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1.789 retry 0.6.1

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1.792 rndm 1.1.0

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1.793 RoaringBitmap 0.4.5

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1.795 rotp 2.1.2

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1.796 rspec-core 3.4.4

1.797 rspec-expectations 3.4.0

1.798 rspec-mocks 3.4.1

1.799 rspec-rails 3.4.2

1.800 rspec-support 3.4.1

1.801 ruby-druid 0.1.9

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1.803 ruby-gems-foreman 0.81.0 :1

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Basic liblzma-bindings for Ruby.

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1.806 rufus-scheduler 3.2.0

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1.809 safe_yaml 1.0.4

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1.811 sass-rails 4.0.5

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1.812 saucelabs 0.1.1

1.813 sax 0.6.1

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1.814 sax (npm) 0.6.1

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1.815 sax (npm)_examples/strict.dtd 0.6.1

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1.817 scala-library 2.10.4

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1.820 scipy 0.15.1

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------m dongarra Fri Jun 21 17:58:49 EDT 1991
Subject: amos

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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 "-l" prefix from amos
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Todd 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
> phone: 510.643.4014
> http://cirl.berkeley.edu/

---

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1.831 servlet-api 2.5

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1.834 sigmund 1.0.1

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1.836 signal-exit 2.1.2

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1.838 sinatra 1.4.6

1.839 slf4j-api 1.6.2

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1.840 slf4j-log4j12 1.6.1

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1.841 slide 1.1.6

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1.842 SnakeYAML 1.6

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1.844 snappy-java 1.0.5

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1.845 sntp 0.2.4

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1.846 sntp 1.0.9

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1.847 socket.io 0.9.16

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1.848 socket.io-client 0.9.16

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1.849 source-map 0.1.43

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1.850 source-map 0.4.4

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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
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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.
#
# 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
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#
# 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
# 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
#
# Footnotes:
```

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#
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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
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This library contains efficient implementation of LZF compression format,
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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.

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It is currently developed by a community of developers, as well as supported
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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.\n"
   exit -1
 fi
}

# Go to the Spark project root directory
FWDIR="$(cd "`dirname "$0"`"/..; pwd)"
cd "$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 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):
==

```
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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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#
# 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
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# 2.3.5           2.3.4       2005        PSF         yes
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# 2.4.3           2.4.2       2006        PSF         yes
# 2.4.4           2.4.3       2006        PSF         yes
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# 2.5.2           2.5.1       2008        PSF         yes
# 2.5.3           2.5.2       2008        PSF         yes
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# 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
#
# Footnotes:
#
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==

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==
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==
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1.854 Spark 1.2.1

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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):

==========

```
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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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#
# 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
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# 2.3.1         2.3        2002-2003  PSF        yes
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# 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
# 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
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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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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
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Jackson JSON processor

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It is currently developed by a community of developers, as well as supported
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rem

rem This is the entry point for running Spark submit. To avoid polluting the
rem environment, it just launches a new cmd to do the real work.

cmd /V /E /C %~dp0spark-submit2.cmd %*

1.855 spark-core_2.10 1.2.1

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1.857 spark-network-shuffle_2.10 1.2.1

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1.860 spin.js 2.0.1

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1.862 sprockets 2.12.4

1.863 sprockets-rails 2.3.3

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1.864 sqlite 3.6.20

1.865 sshkey 1.8.0

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1.869 stax-api 1.0-2

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1.870 strace 4.8 :r0

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1.871 stream 2.7.0

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```
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*/

package com.clearspring.analytics.stream.cardinality;

import java.io.ByteArrayInputStream;
```

```
import java.io.ByteArrayOutputStream;
import java.io.DataInput;
import java.io.DataInputStream;
import java.io.DataOutput;
import java.io.DataOutputStream;
import java.io.Externalizable;
import java.io.IOException;
import java.io.ObjectInput;
import java.io.ObjectOutput;
import java.io.Serializable;

import java.util.ArrayList;
import java.util.Collections;
import java.util.Comparator;
import java.util.List;
import java.util.SortedMap;
import java.util.TreeMap;

import com.clearspring.analytics.hash.MurmurHash;
import com.clearspring.analytics.util.Bits;
import com.clearspring.analytics.util.IBuilder;
import com.clearspring.analytics.util.Varint;


/**
* Implementation of HyperLogLog++ described in
* <p/>
* <p>
*
http://static.googleusercontent.com/external_content/untrusted_dlcp/research.google.com/en/us/pubs/archive/40671.
pdf
* </p>
* <p/>
* Brief HyperLogLog++ Overview
* <p/>
* Uses 64 bit hashing instead of 32
* Has two representation modes: sparse and normal
* <p/>
* 'normal' is approximately the same as regular hyperloglog (still uses 64 bits)
* <p/>
* '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
```

```
  }

  /**
   * 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/1gyjfMHy43U9OWBXxfaeG-
3MjGzejW1dlpyMwEYAAWEI/view?fullscreen#
  static final double[] thresholdData = {10, 20, 40, 80, 220, 400, 900, 1800, 3100, 6500, 15500, 20000, 50000,
120000, 350000};

  static final double[][] rawEstimateData = {
        // precision 4
        {11, 11.717, 12.207, 12.7896, 13.2882, 13.8204, 14.3772, 14.9342, 15.5202, 16.161, 16.7722, 17.4636,
18.0396, 18.6766, 19.3566, 20.0454, 20.7936, 21.4856, 22.2666, 22.9946, 23.766, 24.4692, 25.3638, 26.0764,
26.7864, 27.7602, 28.4814, 29.433, 30.2926, 31.0664, 31.9996, 32.7956, 33.5366, 34.5894, 35.5738, 36.2698,
37.3682, 38.0544, 39.2342, 40.0108, 40.7966, 41.9298, 42.8704, 43.6358, 44.5194, 45.773, 46.6772, 47.6174,
48.4888, 49.3304, 50.2506, 51.4996, 52.3824, 53.3078, 54.3984, 55.5838, 56.6618, 57.2174, 58.3514, 59.0802,
60.1482, 61.0376, 62.3598, 62.8078, 63.9744, 64.914, 65.781, 67.1806, 68.0594, 68.8446, 69.7928, 70.8248,
71.8324, 72.8598, 73.6246, 74.7014, 75.393, 76.6708, 77.2394,},
        // precision 5
        {23, 23.1194, 23.8208, 24.2318, 24.77, 25.2436, 25.7774, 26.2848, 26.8224, 27.3742, 27.9336, 28.503,
29.0494, 29.6292, 30.2124, 30.798, 31.367, 31.9728, 32.5944, 33.217, 33.8438, 34.3696, 35.0956, 35.7044, 36.324,
37.0668, 37.6698, 38.3644, 39.049, 39.6918, 40.4146, 41.082, 41.687, 42.5398, 43.2462, 43.857, 44.6606, 45.4168,
46.1248, 46.9222, 47.6804, 48.447, 49.3454, 49.9594, 50.7636, 51.5776, 52.331, 53.19, 53.9676, 54.7564, 55.5314,
56.4442, 57.3708, 57.9774, 58.9624, 59.8796, 60.755, 61.472, 62.2076, 63.1024, 63.8908, 64.7338, 65.7728,
66.629, 67.413, 68.3266, 69.1524, 70.2642, 71.1806, 72.0566, 72.9192, 73.7598, 74.3516, 75.5802, 76.4386,
77.4916, 78.1524, 79.1892, 79.8414, 80.8798, 81.8376, 82.4698, 83.7656, 84.331, 85.5914, 86.6012, 87.7016,
88.5582, 89.3394, 90.3544, 91.4912, 92.308, 93.3552, 93.9746, 95.2052, 95.727, 97.1322, 98.3944, 98.7588,
100.242, 101.1914, 102.2538, 102.8776, 103.6292, 105.1932, 105.9152, 107.0868, 107.6728, 108.7144, 110.3114,
110.8716, 111.245, 112.7908, 113.7064, 114.636, 115.7464, 116.1788, 117.7464, 118.4896, 119.6166, 120.5082,
121.7798, 122.9028, 123.4426, 124.8854, 125.705, 126.4652, 128.3464, 128.3462, 130.0398, 131.0342, 131.0042,
132.4766, 133.511, 134.7252, 135.425, 136.5172, 138.0572, 138.6694, 139.3712, 140.8598, 141.4594, 142.554,
143.4006, 144.7374, 146.1634, 146.8994, 147.605, 147.9304, 149.1636, 150.2468, 151.5876, 152.2096, 153.7032,
154.7146, 155.807, 156.9228, 157.0372, 158.5852,},
        // precision 6
        {46, 46.1902, 47.271, 47.8358, 48.8142, 49.2854, 50.317, 51.354, 51.8924, 52.9436, 53.4596, 54.5262,
55.6248, 56.1574, 57.2822, 57.837, 58.9636, 60.074, 60.7042, 61.7976, 62.4772, 63.6564, 64.7942, 65.5004,
66.686, 67.291, 68.5672, 69.8556, 70.4982, 71.8204, 72.4252, 73.7744, 75.0786, 75.8344, 77.0294, 77.8098,
79.0794, 80.5732, 81.1878, 82.5648, 83.2902, 84.6784, 85.3352, 86.8946, 88.3712, 89.0852, 90.499, 91.2686,
92.6844, 94.2234, 94.9732, 96.3356, 97.2286, 98.7262, 100.3284, 101.1048, 102.5962, 103.3562, 105.1272,
106.4184, 107.4974, 109.0822, 109.856, 111.48, 113.2834, 114.0208, 115.637, 116.5174, 118.0576, 119.7476,
120.427, 122.1326, 123.2372, 125.2788, 126.6776, 127.7926, 129.1952, 129.9564, 131.6454, 133.87, 134.5428,
136.2, 137.0294, 138.6278, 139.6782, 141.792, 143.3516, 144.2832, 146.0394, 147.0748, 148.4912, 150.849,
151.696, 153.5404, 154.073, 156.3714, 157.7216, 158.7328, 160.4208, 161.4184, 163.9424, 165.2772, 166.411,
168.1308, 168.769, 170.9258, 172.6828, 173.7502, 175.706, 176.3886, 179.0186, 180.4518, 181.927, 183.4172,
```

184.4114, 186.033, 188.5124, 189.5564, 191.6008, 192.4172, 193.8044, 194.997, 197.4548, 198.8948, 200.2346, 202.3086, 203.1548, 204.8842, 206.6508, 206.6772, 209.7254, 210.4752, 212.7228, 214.6614, 215.1676, 217.793, 218.0006, 219.9052, 221.66, 223.5588, 225.1636, 225.6882, 227.7126, 229.4502, 231.1978, 232.9756, 233.1654, 236.727, 238.1974, 237.7474, 241.1346, 242.3048, 244.1948, 245.3134, 246.879, 249.1204, 249.853, 252.6792, 253.857, 254.4486, 257.2362, 257.9534, 260.0286, 260.5632, 262.663, 264.723, 265.7566, 267.2566, 267.1624, 270.62, 272.8216, 273.2166, 275.2056, 276.2202, 278.3726, 280.3344, 281.9284, 283.9728, 284.1924, 286.4872, 287.587, 289.807, 291.1206, 292.769, 294.8708, 296.665, 297.1182, 299.4012, 300.6352, 302.1354, 304.1756, 306.1606, 307.3462, 308.5214, 309.4134, 310.8352, 313.9684, 315.837, 316.7796, 318.9858,},

// precision 7

{92, 93.4934, 94.9758, 96.4574, 97.9718, 99.4954, 101.5302, 103.0756, 104.6374, 106.1782, 107.7888, 109.9522, 111.592, 113.2532, 114.9086, 116.5938, 118.9474, 120.6796, 122.4394, 124.2176, 125.9768, 128.4214, 130.2528, 132.0102, 133.8658, 135.7278, 138.3044, 140.1316, 142.093, 144.0032, 145.9092, 148.6306, 150.5294, 152.5756, 154.6508, 156.662, 159.552, 161.3724, 163.617, 165.5754, 167.7872, 169.8444, 172.7988, 174.8606, 177.2118, 179.3566, 181.4476, 184.5882, 186.6816, 189.0824, 191.0258, 193.6048, 196.4436, 198.7274, 200.957, 203.147, 205.4364, 208.7592, 211.3386, 213.781, 215.8028, 218.656, 221.6544, 223.996, 226.4718, 229.1544, 231.6098, 234.5956, 237.0616, 239.5758, 242.4878, 244.5244, 248.2146, 250.724, 252.8722, 255.5198, 258.0414, 261.941, 264.9048, 266.87, 269.4304, 272.028, 274.4708, 278.37, 281.0624, 283.4668, 286.5532, 289.4352, 293.2564, 295.2744, 298.2118, 300.7472, 304.1456, 307.2928, 309.7504, 312.5528, 315.979, 318.2102, 322.1834, 324.3494, 327.325, 330.6614, 332.903, 337.2544, 339.9042, 343.215, 345.2864, 348.0814, 352.6764, 355.301, 357.139, 360.658, 363.1732, 366.5902, 369.9538, 373.0828, 375.922, 378.9902, 382.7328, 386.4538, 388.1136, 391.2234, 394.0878, 396.708, 401.1556, 404.1852, 406.6372, 409.6822, 412.7796, 416.6078, 418.4916, 422.131, 424.5376, 428.1988, 432.211, 434.4502, 438.5282, 440.912, 444.0448, 447.7432, 450.8524, 453.7988, 456.7858, 458.8868, 463.9886, 466.5064, 468.9124, 472.6616, 475.4682, 478.582, 481.304, 485.2738, 488.6894, 490.329, 496.106, 497.6908, 501.1374, 504.5322, 506.8848, 510.3324, 513.4512, 516.179, 520.4412, 522.6066, 526.167, 528.7794, 533.379, 536.067, 538.46, 542.9116, 545.692, 547.9546, 552.493, 555.2722, 557.335, 562.449, 564.2014, 569.0738, 571.0974, 574.8564, 578.2996, 581.409, 583.9704, 585.8098, 589.6528, 594.5998, 595.958, 600.068, 603.3278, 608.2016, 609.9632, 612.864, 615.43, 620.7794, 621.272, 625.8644, 629.206, 633.219, 634.5154, 638.6102,},

// precision 8

{184.2152, 187.2454, 190.2096, 193.6652, 196.6312, 199.6822, 203.249, 206.3296, 210.0038, 213.2074, 216.4612, 220.27, 223.5178, 227.4412, 230.8032, 234.1634, 238.1688, 241.6074, 245.6946, 249.2664, 252.8228, 257.0432, 260.6824, 264.9464, 268.6268, 272.2626, 276.8376, 280.4034, 284.8956, 288.8522, 292.7638, 297.3552, 301.3556, 305.7526, 309.9292, 313.8954, 318.8198, 322.7668, 327.298, 331.6688, 335.9466, 340.9746, 345.1672, 349.3474, 354.3028, 358.8912, 364.114, 368.4646, 372.9744, 378.4092, 382.6022, 387.843, 392.5684, 397.1652, 402.5426, 407.4152, 412.5388, 417.3592, 422.1366, 427.486, 432.3918, 437.5076, 442.509, 447.3834, 453.3498, 458.0668, 463.7346, 469.1228, 473.4528, 479.7, 484.644, 491.0518, 495.5774, 500.9068, 506.432, 512.1666, 517.434, 522.6644, 527.4894, 533.6312, 538.3804, 544.292, 550.5496, 556.0234, 562.8206, 566.6146, 572.4188, 579.117, 583.6762, 590.6576, 595.7864, 601.509, 607.5334, 612.9204, 619.772, 624.2924, 630.8654, 636.1836, 642.745, 649.1316, 655.0386, 660.0136, 666.6342, 671.6196, 678.1866, 684.4282, 689.3324, 695.4794, 702.5038, 708.129, 713.528, 720.3204, 726.463, 732.7928, 739.123, 744.7418, 751.2192, 756.5102, 762.6066, 769.0184, 775.2224, 781.4014, 787.7618, 794.1436, 798.6506, 805.6378, 811.766, 819.7514, 824.5776, 828.7322, 837.8048, 843.6302, 849.9336, 854.4798, 861.3388, 867.9894, 873.8196, 880.3136, 886.2308, 892.4588, 899.0816, 905.4076, 912.0064, 917.3878, 923.619, 929.998, 937.3482, 943.9506, 947.991, 955.1144, 962.203, 968.8222, 975.7324, 981.7826, 988.7666, 994.2648, 1000.3128, 1007.4082, 1013.7536, 1020.3376, 1026.7156, 1031.7478, 1037.4292, 1045.393, 1051.2278, 1058.3434, 1062.8726, 1071.884, 1076.806, 1082.9176, 1089.1678, 1095.5032, 1102.525, 1107.2264, 1115.315, 1120.93, 1127.252, 1134.1496, 1139.0408, 1147.5448, 1153.3296, 1158.1974, 1166.5262, 1174.3328, 1175.657, 1184.4222, 1190.9172, 1197.1292, 1204.4606, 1210.4578, 1218.8728, 1225.3336, 1226.6592, 1236.5768, 1241.363, 1249.4074, 1254.6566, 1260.8014, 1266.5454, 1274.5192,},

// precision 9

{369, 374.8294, 381.2452, 387.6698, 394.1464, 400.2024, 406.8782, 413.6598, 420.462, 427.2826, 433.7102, 440.7416, 447.9366, 455.1046, 462.285, 469.0668, 476.306, 483.8448, 491.301, 498.9886, 506.2422, 513.8138, 521.7074, 529.7428, 537.8402, 545.1664, 553.3534, 561.594, 569.6886, 577.7876, 585.65, 594.228, 602.8036, 611.1666, 620.0818, 628.0824, 637.2574, 646.302, 655.1644, 664.0056, 672.3802, 681.7192, 690.5234, 700.2084, 708.831, 718.485, 728.1112, 737.4764, 746.76, 756.3368, 766.5538, 775.5058, 785.2646, 795.5902, 804.3818, 814.8998, 824.9532, 835.2062, 845.2798, 854.4728, 864.9582, 875.3292, 886.171, 896.781, 906.5716, 916.7048, 927.5322, 937.875, 949.3972, 958.3464, 969.7274, 980.2834, 992.1444, 1003.4264, 1013.0166, 1024.018, 1035.0438, 1046.34, 1057.6856, 1068.9836, 1079.0312, 1091.677, 1102.3188, 1113.4846, 1124.4424, 1135.739, 1147.1488, 1158.9202, 1169.406, 1181.5342, 1193.2834, 1203.8954, 1216.3286, 1226.2146, 1239.6684, 1251.9946, 1262.123, 1275.4338, 1285.7378, 1296.076, 1308.9692, 1320.4964, 1333.0998, 1343.9864, 1357.7754, 1368.3208, 1380.4838, 1392.7388, 1406.0758, 1416.9098, 1428.9728, 1440.9228, 1453.9292, 1462.617, 1476.05, 1490.2996, 1500.6128, 1513.7392, 1524.5174, 1536.6322, 1548.2584, 1562.3766, 1572.423, 1587.1232, 1596.5164, 1610.5938, 1622.5972, 1633.1222, 1647.7674, 1658.5044, 1671.57, 1683.7044, 1695.4142, 1708.7102, 1720.6094, 1732.6522, 1747.841, 1756.4072, 1769.9786, 1782.3276, 1797.5216, 1808.3186, 1819.0694, 1834.354, 1844.575, 1856.2808, 1871.1288, 1880.7852, 1893.9622, 1906.3418, 1920.6548, 1932.9302, 1945.8584, 1955.473, 1968.8248, 1980.6446, 1995.9598, 2008.349, 2019.8556, 2033.0334, 2044.0206, 2059.3956, 2069.9174, 2082.6084, 2093.7036, 2106.6108, 2118.9124, 2132.301, 2144.7628, 2159.8422, 2171.0212, 2183.101, 2193.5112, 2208.052, 2221.3194, 2233.3282, 2247.295, 2257.7222, 2273.342, 2286.5638, 2299.6786, 2310.8114, 2322.3312, 2335.516, 2349.874, 2363.5968, 2373.865, 2387.1918, 2401.8328, 2414.8496, 2424.544, 2436.7592, 2447.1682, 2464.1958, 2474.3438, 2489.0006, 2497.4526, 2513.6586, 2527.19, 2540.7028, 2553.768,},

// precision 10

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// precision 17

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// precision 18

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};

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4.3566, 4.0454, 3.7936, 3.4856, 3.2666, 2.9946, 2.766, 2.4692, 2.3638, 2.0764, 1.7864, 1.7602, 1.4814, 1.433,
1.2926, 1.0664, 0.999600000000001, 0.7956, 0.5366, 0.589399999999998, 0.573799999999999,
0.269799999999996, 0.368200000000002, 0.0544000000000011, 0.234200000000001, 0.0108000000000033, -
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0.226999999999997, -0.322800000000001, -0.382599999999996, -0.511200000000002, -0.669600000000003, -
0.749400000000001, -0.500399999999999, -0.617600000000003, -0.6922, -0.601599999999998, -
0.416200000000003, -0.338200000000001, -0.782600000000002, -0.648600000000002, -0.919800000000002, -
0.851799999999997, -0.962400000000002, -0.6402, -1.1922, -1.0256, -1.086, -1.21899999999999, -
0.819400000000002, -0.940600000000003, -1.1554, -1.2072, -1.1752, -1.16759999999999, -1.14019999999999, -
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11.0668, 10.6698, 10.3644, 10.049, 9.6918, 9.4146, 9.082, 8.687, 8.5398, 8.2462, 7.857, 7.6606, 7.4168, 7.1248,
6.9222, 6.6804, 6.447, 6.3454, 5.9594, 5.7636, 5.5776, 5.331, 5.19, 4.9676, 4.7564, 4.5314, 4.4442, 4.3708, 3.9774,
3.9624, 3.8796, 3.755, 3.472, 3.2076, 3.1024, 2.8908, 2.7338, 2.7728, 2.629, 2.413, 2.3266, 2.1524, 2.2642, 2.1806,
2.0566, 1.9192, 1.7598, 1.3516, 1.5802, 1.43859999999999, 1.49160000000001, 1.1524, 1.1892,
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// precision 7

{91, 89.4934, 87.9758, 86.4574, 84.9718, 83.4954, 81.5302, 80.0756, 78.6374, 77.1782, 75.7888, 73.9522, 72.592, 71.2532, 69.9086, 68.5938, 66.9474, 65.6796, 64.4394, 63.2176, 61.9768, 60.4214, 59.2528, 58.0102, 56.8658, 55.7278, 54.3044, 53.1316, 52.093, 51.0032, 49.9092, 48.6306, 47.5294, 46.5756, 45.6508, 44.662, 43.552, 42.3724, 41.617, 40.5754, 39.7872, 38.8444, 37.7988, 36.8606, 36.2118, 35.3566, 34.4476, 33.5882, 32.6816, 32.0824, 31.0258, 30.6048, 29.4436, 28.7274, 27.957, 27.147, 26.4364, 25.7592, 25.3386, 24.781, 23.8028, 23.656, 22.6544, 21.996, 21.4718, 21.1544, 20.6098, 19.5956, 19.0616, 18.5758, 18.4878, 17.5244, 17.2146, 16.724, 15.8722, 15.5198, 15.0414, 14.941, 14.9048, 13.87, 13.4304, 13.028, 12.4708, 12.37, 12.0624, 11.4668, 11.5532, 11.4352, 11.2564, 10.2744, 10.2118, 9.74720000000002, 10.1456, 9.2928, 8.75040000000001, 8.55279999999999, 8.97899999999998, 8.21019999999999, 8.18340000000001, 7.3494, 7.32499999999999, 7.66140000000001, 6.90300000000002, 7.25439999999998, 6.9042, 7.21499999999997, 6.28640000000001, 6.08139999999997, 6.6764, 6.30099999999999, 5.13900000000001, 5.65800000000002, 5.17320000000001, 4.59019999999998, 4.9538, 5.08280000000002, 4.92200000000003, 4.99020000000002, 4.7328, 5.4538, 4.11360000000002, 4.22340000000003, 4.08780000000002, 3.70800000000003, 4.15559999999999, 4.18520000000001, 3.63720000000001, 3.68220000000002, 3.77960000000002, 3.6078, 2.49160000000001, 3.13099999999997, 2.5376, 3.19880000000001, 3.21100000000001, 2.4502, 3.52820000000003, 2.91199999999998, 3.04480000000001, 2.7432, 2.85239999999999, 2.79880000000003, 2.78579999999999, 1.88679999999999, 2.98860000000002, 2.50639999999999, 1.91239999999999, 2.66160000000002, 2.46820000000002, 1.58199999999999, 1.30399999999997, 2.27379999999999, 2.68939999999998, 1.32900000000001, 3.10599999999999, 1.69080000000002, 2.13740000000001, 2.53219999999999, 1.88479999999998, 1.33240000000001, 1.45119999999997, 1.17899999999997, 2.44119999999998, 1.60659999999996, 2.16700000000003, 0.77940000000001, 2.37900000000002, 2.06700000000001, 1.46000000000004, 2.91160000000002, 1.69200000000001, 0.954600000000028, 2.49300000000005, 2.2722, 1.33500000000004, 2.44899999999996, 1.20140000000004, 3.07380000000001, 2.09739999999999, 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,},

// precision 8

{183.2152, 180.2454, 177.2096, 173.6652, 170.6312, 167.6822, 164.249, 161.3296, 158.0038, 155.2074, 152.4612, 149.27, 146.5178, 143.4412, 140.8032, 138.1634, 135.1688, 132.6074, 129.6946, 127.2664, 124.8228, 122.0432, 119.6824, 116.9464, 114.6268, 112.2626, 109.8376, 107.4034, 104.8956, 102.8522, 100.7638, 98.3552, 96.3556, 93.7526, 91.9292, 89.8954, 87.8198, 85.7668, 83.298, 81.6688, 79.9466, 77.9746, 76.1672, 74.3474, 72.3028, 70.8912, 69.114, 67.4646, 65.9744, 64.4092, 62.6022, 60.843, 59.5684, 58.1652, 56.5426, 55.4152, 53.5388, 52.3592, 51.1366, 49.486, 48.3918, 46.5076, 45.509, 44.3834, 43.3498, 42.0668, 40.7346, 40.1228, 38.4528, 37.7, 36.644, 36.0518, 34.5774, 33.9068, 32.432, 32.1666, 30.434, 29.6644, 28.4894, 27.6312, 26.3804, 26.292, 25.5496000000001, 25.0234, 24.8206, 22.6146, 22.4188, 22.117, 20.6762, 20.6576, 19.7864, 19.509, 18.5334, 17.9204, 17.772, 16.2924, 16.8654, 15.1836, 15.745, 15.1316, 15.0386, 14.0136, 13.6342, 12.6196, 12.1866, 12.4281999999999, 11.3324, 10.4794000000001, 11.5038, 10.129, 9.52800000000002, 10.3203999999999, 9.46299999999997, 9.79280000000006, 9.12300000000005, 8.74180000000001, 9.2192, 7.51020000000005, 7.60659999999996, 7.01840000000004, 7.22239999999999, 7.40139999999997, 6.76179999999999, 7.14359999999999, 5.65060000000005, 5.63779999999997, 5.76599999999996, 6.75139999999999, 5.57759999999996, 3.73220000000003, 5.8048, 5.63019999999995, 4.93359999999996, 3.47979999999995, 4.33879999999999, 3.98940000000005, 3.81960000000004, 3.31359999999995, 3.23080000000004, 3.4588, 3.08159999999998, 3.4076, 3.00639999999999, 2.38779999999997, 2.61900000000003, 1.99800000000005, 3.34820000000002, 2.95060000000001, 0.990999999999985, 2.11440000000005, 2.20299999999997, 2.82219999999995, 2.73239999999998, 2.7826, 3.76660000000004, 2.26480000000004, 2.31280000000004, 2.40819999999997, 2.75360000000001, 3.33759999999995, 2.71559999999999, 1.7478000000001, 1.42920000000004, 2.39300000000003, 2.22779999999989, 2.34339999999997, 0.87259999999992, 3.88400000000001, 1.80600000000004, 1.91759999999999, 1.16779999999994, 1.50320000000011, 2.52500000000009, 0.226400000000012, 2.31500000000005, 0.930000000000064, 1.25199999999995, 2.14959999999996, 0.0407999999999902, 2.5447999999999, 1.32960000000003, 0.197400000000016, 2.52620000000002, 3.33279999999991, -1.34300000000007, 0.422199999999975, 0.917200000000093, 1.12920000000008, 1.46060000000011, 1.45779999999991, 2.8728000000001, 3.33359999999993, -1.34079999999994, 1.57680000000005, 0.363000000000056, 1.40740000000005, 0.656600000000026, 0.801400000000058, -0.454600000000028, 1.51919999999996,},

// precision 9

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// precision 10

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// precision 11

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// precision 12

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// precision 13

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// precision 14

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// precision 15

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// precision 17

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// precision 18

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850.486000000034, -757.43200000003, -713.308999999892,}
  };

  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'.
     * <p/>
     * 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.
     * <p/>
     * Start with the 64 bit hash as x.
     * <p/>
     * 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))
     * <p/>
     * 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.
     * <p/>
     * 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.
     * <p/>
     * The relationship looks like this:
```

```
 * <p/>
 * ********************************************************  <- hashed length of bits
 * | p bits = idx ||     look for leading zeros here     |
 * |      sp bits = idx'     |
 * | all 0s? |
 * <p/>
 * 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.
 * <p/>
 * 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.
 * <p/>
 * The encoding scheme now looks like:
 * <p/>
 * ********************************** <- smaller length of bits (half, but not to scale)
 * | empty ||       sp bits     ||F|
 * |  p bits  || has 1 ||0|
 * <p/>
 * <p/>
 * or if the run length was needed (ie 'all 0s?' was indeed all 0s):
 * <p/>
 * **********************************
 * |      sp bits    || run len ||F|
 * |  p bits ||  0s  |           |1|
 * <p/>
 * <p/>
 * 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).
 *
 * @param x  the hash bits
 * @param p  the 'normal' mode precision
 * @param sp the 'sparse' mode precision
 * @return the encoded data as an integer
 */
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.
 * <p/>
 * 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++;
            }
```

```
            }

            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);
            }
         case SPARSE:
            mergeTempList();
            return Math.round(HyperLogLog.linearCounting(sm, (sm - sparseSet.length)));
      }
      return 0;
   }

   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) {
```

```
    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'.
 *
 * @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 tmpi = 0;
    while (seti < setLength || tmpi < 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];
```

```
            int nextTmpIdx = getSparseIndex(nextTmp);
            if (tmpIdx != nextTmpIdx) {
                return tmpi;
            }
            tmpi++;
        }
        return 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 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 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);
```

```
    }

    return merged;
}

/**
 * exposed for testing
 */
protected RegisterSet getRegisterSet() {
    return registerSet;
}

/**
 * exposed for testing
 */
protected int[] getSparseSet() {
    return sparseSet;
}


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;
```

```
            return hyperLogLogPlus;
        }
    }

    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();
}
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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) {
        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 {
```

```
            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.length = list.size;
            this.list = list;
            this.itr = list.tail;
        }

        @Override
        public boolean hasNext() {
            return itr != null;
        }

        @Override
        public T next() {
            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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1.878 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

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

> Strip [ANSI escape codes](http://en.wikipedia.org/wiki/ANSI_escape_code)

Install

```
$ npm install --save strip-ansi
```

Usage

```js
var stripAnsi = require('strip-ansi');

stripAnsi('\u001b[4mcake\u001b[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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1.882 strip-bom 1.0.0

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1.888 supports-color 2.0.0

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

> Detect whether a terminal supports color

Install

```
$ npm install --save supports-color
```

Usage

```js
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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Version: 3.4.6 Timestamp: Sat Mar 22 22:30:15 EDT 2014

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1.890 tachyon 0.5.0

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1.891 tar 1.23

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1.893 tar-fs 1.8.1

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1.894 tar-stream 1.3.1

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1.895 tcpdump 4.0.0 :r3

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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,
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*
* Ported to OpenBSD and NetBSD, with additional transforms, in December 1996,
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1.897 tftp-server 0.49 :7.el6.x86_64

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1.898 thin 1.6.1

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#!/usr/bin/env rackup -s thin
#
async_chat.ru
raggi/thin
#
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Thin
====

Tiny, fast & funny HTTP server

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
thin start
'''

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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1.899 thin 1.6.4

1.900 thor 0.19.1

1.901 thread_safe 0.3.5

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Version 2.0, January 2004

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1.904 through2 2.0.0

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1.922 udev 147 :0.47.2

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1.938 user-home 1.1.1

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1.947 validation-api 1.1.0.Final

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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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1.957 which 1.1.2

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1.962 wrappy 1.0.1

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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
 , wss = new WebSocketServer({port: 8080});
wss.on('connection', function(ws) {
  ws.on('message', function(message) {
     console.log('received: %s', message);
  });
  ws.send('something');
});
```

Server sending broadcast data

```js
var WebSocketServer = require('ws').Server
 , wss = new WebSocketServer({port: 8080});

wss.broadcast = function(data) {
 for(var i in this.clients)
  this.clients[i].send(data);
};
```

Error handling best practices

```js
// If the WebSocket is closed before the following send is attempted
ws.send('something');

// Errors (both immediate and async write errors) can be detected in an optional callback.
// The callback is also the only way of being notified that data has actually been sent.
ws.send('something', function(error) {
  // if error is null, the send has been completed,
  // otherwise the error object will indicate what failed.
});

// Immediate errors can also be handled with try/catch-blocks, but **note**
// that since sends are inherently asynchronous, socket write failures will *not*
// be captured when this technique is used.
try {
  ws.send('something');
}
catch (e) {
  // handle error
}
```

echo.websocket.org demo

```js
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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1.967 xml2js 0.4.4

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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)](http://travis-ci.org/oozcitak/xmlbuilder-js)

### Installation:

``` sh
npm install xmlbuilder
```

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:

``` js
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:

```` js
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

1.969.1 Available under license :

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1.970 xmlhttprequest 1.4.2

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1.971 xtend 4.0.0

1.971.1 Available under license :


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 "name": "xtend",
 "version": "4.0.0",
 "description": "extend like a boss",
 "keywords": [
   "extend",
   "merge",
   "options",
   "opts",
   "object",
   "array"
 ],
 "author": "Raynos <raynos2@gmail.com>",
 "repository": "git://github.com/Raynos/xtend.git",
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 "scripts": {
   "test": "node test"
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 "dependencies": {},
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   "tape": "~1.1.0"
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 "homepage": "https://github.com/Raynos/xtend",
 "contributors": [
   {
     "name": "Jake Verbaten"
   },
   {
     "name": "Matt Esch"
   }
 ],
 "bugs": {
   "url": "https://github.com/Raynos/xtend/issues",
   "email": "raynos2@gmail.com"
 },
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     "type": "MIT",
     "url": "http://github.com/raynos/xtend/raw/master/LICENSE"
   }
 ],
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     "ie/7..latest",
     "firefox/16..latest",
     "firefox/nightly",
```

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    "chrome/canary",
    "opera/12..latest",
    "opera/next",
    "safari/5.1..latest",
    "ipad/6.0..latest",
    "iphone/6.0..latest"
  ]
 },
 "engines": {
  "node": ">=0.4"
 }
}
```

1.972 xtend 4.0.1

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1.973 yajl 1.0.7 :3

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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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1.977 zip 3.0

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1.979 zkclient 0.3

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1.980 zlib 1.2.3

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1.981 zmq 1.0.0

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