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  - 1.607.1 Available under license
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- 1.612 multipipe 0.1.2**



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**1.613 mute-stream 0.0.5**

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**1.619 ncurses 5.7**

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**1.622 netaddr 0.7.11**

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**1.623 netrc 0.11.0**

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**1.624 netty 3.2.2.Final**

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**1.625 netty:jar 3.8.0.Final**

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**1.626 ng-file-upload 11.0.2**

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**1.627 ng-table 0.3.3**

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**1.629 nginx 1.8.0 :21 Apr 2015**

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**1.631 ngOnboarding 0.1.7**

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- 1.648 Objenesis 1.2**
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- 1.649 on-finished 2.3.0**
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- 1.651 on-headers 1.0.0**

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  - 1.677.1 Available under license
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  - 1.680.1 Available under license
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- 1.682 parse-json 2.2.0**
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- 1.683 parseurl 1.3.0**
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- 1.685 path-is-absolute 1.0.0**
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**1.760 rechoir 0.6.2**  
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**1.764 redis 3.2.2**  
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**1.769 redis-rack 1.5.0**  
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**1.770 redis-rails 4.0.0**  
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**1.772 ReflectASM 1.07**  
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**1.773 regex-cache 0.4.2**



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**1.778 request 2.53.0**  
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**1.780 request-progress 0.3.1**  
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**1.781 request-replay 0.2.0**  
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**1.784 response-time 2.3.1**  
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**1.788 restore-cursor 1.0.1**  
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**1.790 rimraf 2.4.2**  
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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**

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**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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**1.805 ruby-xz 0.2.3**

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**1.807 run-async 0.1.0**

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**1.809 safe\_yaml 1.0.4**

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**1.813 sax 0.6.1**

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**1.814 sax (npm) 0.6.1**

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- 1.886 strip-json-comments 1.0.4**
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  - 1.894.1 Available under license
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  - 1.895.1 Available under license
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**1.899 thin 1.6.1**  
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 * $Id: rawdeflate.js,v 0.5 2013/04/09 14:25:38 dankogai Exp dankogai $
 *
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 * Original:
 * http://www.onicos.com/staff/iz/amuse/javascript/expert/deflate.txt
 */
```

## 1.14 airbrake 5.1.0

# 1.15 airbrake-js-client 0.5.8

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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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-----

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## 1.39 ansi-escapes 1.1.0

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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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```

```
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```

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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);  
```
```

```
## License
```

```
MIT Â© [Sindre Sorhus](http://sindresorhus.com)
```

## 1.44 ansi-wrap 0.1.0

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## 1.45 ansible 1.9.2

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Version 3, 29 June 2007

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## 1.60 are-we-there-yet 1.0.4

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```
{
  "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

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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.
```

```
[![testling badge](https://ci.testling.com/juliangruber/array-filter.png)](https://ci.testling.com/juliangruber/array-filter)
```

```
[![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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## 1.71 array-uniq 1.0.2

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## 1.72 array-unique 0.2.1

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## 1.76 assert-plus 0.1.5

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## 1.77 async 0.2.10-0

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## 1.78 async 1.4.0

## 1.79 async 0.2.10

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## 1.80 async-each 0.1.6

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# 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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## 1.88 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

### 1.91.1 Available under license :

```
# basic-auth
```

Generic basic auth Authorization header field parser for whatever.

```
## Installation
```

```
---
```

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

```
---
```

```
## Example
```

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

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

...

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```

## 1.92 basic-auth-connect 1.0.0

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

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## 1.93 batch 0.5.2

### 1.93.1 Available under license :

```
# 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"
  }
}
```

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## 1.102 block-stream 0.0.8

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## 1.103 bluebird 2.9.34

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```

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```

```
</a>
```

```
[![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)

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## # 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)

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# What are promises and why should I use them?

You should use promises to turn this:

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

Into this:

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

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

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

```
```js
try {
  var val = JSON.parse(fs.readFileSync("file.json"));
}
```

```

    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](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>).

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## # Development

For development tasks such as running benchmarks or testing, you need to clone the repository and install 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 `tools/test.js` script with `--harmony` argument and node 0.11+:

```
node-dev --harmony tools/test
```

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

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

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

## #### Testing in browsers

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

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

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

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

## #### Supported options by the test tool

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

- `--run=String` - Which tests to run (or compile when testing in browser). Default `"all"`. Can also be a glob string (relative to `./test/mocha` folder).

- `--cover=String`. Create code coverage using the String as istanbul reporter. Coverage is created in the `./coverage` folder. No coverage is created by default, default reporter is `"html"` (use `--cover` to use default reporter).

- `--browser` - Whether to compile tests for browsers. Default `false`.

- `--port=Number` - Port where local server is hosted when testing in browser. Default `9999`

- `--execute-browser-tests` - Whether to execute the compiled tests for browser when using `--browser`. Default `true`.

- `--open-browser` - Whether to open the default browser when executing browser tests. Default `true`.

- `--fake-timers` - Whether to use fake timers (`setTimeout` etc) when running tests in node. Default `true`.

- `--js-hint` - Whether to run JSHint on source files. Default `true`.

- `--saucelabs` - Whether to create a tunnel to sauce labs and run tests in their VMs instead of your browser when compiling tests for browser. Default `false`.

## ## Benchmarks

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

Node 0.11.2+ is required to run the generator examples.

### ### 1\ DoxBee sequential

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

Command: ``bench doxbee``

### ### 2\ Made-up parallel

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

Command: ``bench parallel``

## ## Custom builds

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

```
<table>
  <caption>The following features can be disabled</caption>
  <thead>
    <tr>
      <th>Feature(s)</th>
      <th>Command line identifier</th>
    </tr>
  </thead>
  <tbody>
    <tr><td><a href="API.md#any---promise"><code>.any</code></a> and <a
href="API.md#promiseanyarraydynamicpromise-values---
promise"><code>Promise.any</code></a></td><td><code>any</code></td></tr>
    <tr><td><a href="API.md#race---promise"><code>.race</code></a> and <a
href="API.md#promiseracearraypromise-promises---
promise"><code>Promise.race</code></a></td><td><code>race</code></td></tr>
    <tr><td><a href="API.md#callstring-propertyname--dynamic-arg---promise"><code>.call</code></a> and <a
href="API.md#getstring-propertyname---
promise"><code>.get</code></a></td><td><code>call_get</code></td></tr>
```

<a href="API.md#filterfunction-filterer---promise">&lt;code&gt;.filter&lt;/code&gt;&lt;/a&gt; and <a href="API.md#promisefilterarraydynamicpromise-values-function-filterer---promise">&lt;code&gt;Promise.filter&lt;/code&gt;&lt;/a&gt;&lt;/td&gt;&lt;td&gt;&lt;code&gt;filter&lt;/code&gt;&lt;/td&gt;&lt;/tr&gt;</a></a>
<a href="API.md#mapfunction-mapper---promise">&lt;code&gt;.map&lt;/code&gt;&lt;/a&gt; and <a href="API.md#promisemaparraydynamicpromise-values-function-mapper---promise">&lt;code&gt;Promise.map&lt;/code&gt;&lt;/a&gt;&lt;/td&gt;&lt;td&gt;&lt;code&gt;map&lt;/code&gt;&lt;/td&gt;&lt;/tr&gt;</a></a>
<a href="API.md#reducefunction-reducer--dynamic-initialvalue---promise">&lt;code&gt;.reduce&lt;/code&gt;&lt;/a&gt; and <a href="API.md#promisereducearraydynamicpromise-values-function-reducer--dynamic-initialvalue---promise">&lt;code&gt;Promise.reduce&lt;/code&gt;&lt;/a&gt;&lt;/td&gt;&lt;td&gt;&lt;code&gt;reduce&lt;/code&gt;&lt;/td&gt;&lt;/tr&gt;</a></a>
<a href="API.md#props---promise">&lt;code&gt;.props&lt;/code&gt;&lt;/a&gt; and <a href="API.md#promisepropsobjectpromise-object---promise">&lt;code&gt;Promise.props&lt;/code&gt;&lt;/a&gt;&lt;/td&gt;&lt;td&gt;&lt;code&gt;props&lt;/code&gt;&lt;/td&gt;&lt;/tr&gt;</a></a>
<a href="API.md#settle---promise">&lt;code&gt;.settle&lt;/code&gt;&lt;/a&gt; and <a href="API.md#promisesttlearraydynamicpromise-values---promise">&lt;code&gt;Promise.settle&lt;/code&gt;&lt;/a&gt;&lt;/td&gt;&lt;td&gt;&lt;code&gt;settle&lt;/code&gt;&lt;/td&gt;&lt;/tr&gt;</a></a>
<a href="API.md#someint-count---promise">&lt;code&gt;.some&lt;/code&gt;&lt;/a&gt; and <a href="API.md#promisesomearraydynamicpromise-values-int-count---promise">&lt;code&gt;Promise.some&lt;/code&gt;&lt;/a&gt;&lt;/td&gt;&lt;td&gt;&lt;code&gt;some&lt;/code&gt;&lt;/td&gt;&lt;/tr&gt;</a></a>
<a href="API.md#nodeifyfunction-callback---promise">&lt;code&gt;.nodeify&lt;/code&gt;&lt;/a&gt;&lt;/td&gt;&lt;td&gt;&lt;code&gt;nodeify&lt;/code&gt;&lt;/td&gt;&lt;/tr&gt;</a>
<a href="API.md#promisecoroutinegeneratorfunction-generatorfunction---function">&lt;code&gt;Promise.coroutine&lt;/code&gt;&lt;/a&gt; and <a href="API.md#promisespawngeneratorfunction-generatorfunction---promise">&lt;code&gt;Promise.spawn&lt;/code&gt;&lt;/a&gt;&lt;/td&gt;&lt;td&gt;&lt;code&gt;generators&lt;/code&gt;&lt;/td&gt;&lt;/tr&gt;</a></a>
<a href="API.md#progression">Progression&lt;/a&gt;&lt;/td&gt;&lt;td&gt;&lt;code&gt;progress&lt;/code&gt;&lt;/td&gt;&lt;/tr&gt;</a>
<a href="API.md#promisification">Promisification&lt;/a&gt;&lt;/td&gt;&lt;td&gt;&lt;code&gt;promisify&lt;/code&gt;&lt;/td&gt;&lt;/tr&gt;</a>
<a href="API.md#cancellation">Cancellation&lt;/a&gt;&lt;/td&gt;&lt;td&gt;&lt;code&gt;cancel&lt;/code&gt;&lt;/td&gt;&lt;/tr&gt;</a>
<a href="API.md#timers">Timers&lt;/a&gt;&lt;/td&gt;&lt;td&gt;&lt;code&gt;timers&lt;/code&gt;&lt;/td&gt;&lt;/tr&gt;</a>
<a href="API.md#resource-management">Resource management&lt;/a&gt;&lt;/td&gt;&lt;td&gt;&lt;code&gt;using&lt;/code&gt;&lt;/td&gt;&lt;/tr&gt;</a>

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)

---

## For library authors

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

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

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

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

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

---

## What is the sync build?

You may now use sync build by:

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

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

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

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

```
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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# 1.104 bluebird 2.3.11

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# 1.105 body-parser 1.13.3

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// 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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## 1.115 bower-endpoint-parser 0.2.2

## 1.116 bower-json 0.4.0

# 1.117 bower-logger 0.2.2

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

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

```

```js
/^-?\d+\.\.-?\d+(\.\.-?\d+)?$/
// {x..y[..incr]}
...

```

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

```

```js
/^-?\d+\.\.-?\d+(\.\.-?\d+)?$/
// {x..y[..incr]}
...

```



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

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

## Installation

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

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

## Contributors

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

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## 1.120 brace-expansion 1.1.2

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

```
```js
```

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

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

```
***
```

A numeric sequence from `x` to `y` inclusive, with optional increment.

If `x` or `y` start with a leading `0`, all the numbers will be padded to have equal length. Negative numbers and backwards iteration work too.

```
```js
```

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

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

```
***
```

An alphabetic sequence from `x` to `y` inclusive, with optional increment.

`x` and `y` must be exactly one character, and if given, `incr` must be a number.

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

```
## Installation
```

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

```
```bash
```

```
npm install brace-expansion
```

```
````
```

```
## Contributors
```

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```

```
- [Isaac Z. Schlueter](https://github.com/isaacs)
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## 1.121 braces 1.8.2

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## 1.122 bsh 2.0b4

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## 1.123 bson 4.1.0



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## 1.128 builtin-status-codes 1.0.0

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```
# builtin-status-codes [![Build Status](https://travis-ci.org/bendrucker/builtin-status-codes.svg?branch=master)](https://travis-ci.org/bendrucker/builtin-status-codes)
```

> 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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## 1.130 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` &#124; `null` | Example of values: ``,``,`` and `.`... Default value to ``,``. |

**Returns**

| Name    | Type                   | Description                                     |
|---------|------------------------|-------------------------------------------------|
| results | `string` &#124; `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 &#124;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
...`
```

**## License**

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

# 1.131 cabin 0.8.1

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## 1.136 cardinal 0.4.4

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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

### 1.142.1 Available under license :

```

<h1 align="center">
<br>
<br>

<br>
<br>
<br>
</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](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/jbncolai/ansi-256-colors>) package can be used.

### ## Windows

If you're on Windows, do yourself a favor and use `[`cmdr`]`(<http://blikier.github.io/cmdr/>) 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

### 1.145.1 Available under license :

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Third Party Dependencies:

Kryo 2.17

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Commons-Codec 1.7

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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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Third Party Dependencies:

Kryo 2.17

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<http://code.google.com/p/kryo>

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## 1.148 chmodr 1.0.2

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## 1.149 chokidar 1.1.0

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```
# Chokidar [![Mac/Linux Build
Status](https://img.shields.io/travis/paulmillr/chokidar/master.svg?label=Mac%20OSX%20%26%20Linux)](https://
travis-ci.org/paulmillr/chokidar) [![Windows Build
status](https://img.shields.io/appveyor/ci/es128/chokidar/master.svg?label=Windows)](https://ci.appveyor.com/proj
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Status](https://coveralls.io/repos/paulmillr/chokidar/badge.svg)](https://coveralls.io/r/paulmillr/chokidar) [![Join the
chat at
https://gitter.im/paulmillr/chokidar](https://badges.gitter.im/Join%20Chat.svg)](https://gitter.im/paulmillr/chokidar?
utm_source=badge&utm_medium=badge&utm_campaign=pr-badge&utm_content=badge)
```

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

```
[![NPM](https://nodei.co/npm-dl/chokidar.png)](https://nodei.co/npm/chokidar/)
[![NPM](https://nodei.co/npm/chokidar.png?downloads=true&downloadRank=true&stars=true)](https://nodei.co/np
m/chokidar/)
```

```
#### [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](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.svg?branch=master)[\]\(https://travis-ci.org/sindresorhus/code-point-at\)](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](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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# 1.158 collectd 5.5.0

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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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# 1.165 commander 2.1.0

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# Commander.js

[![Build Status](https://api.travis-ci.org/tj/commander.js.svg)](http://travis-ci.org/tj/commander.js)  
[![NPM Version](http://img.shields.io/npm/v/commander.svg?style=flat)](https://www.npmjs.org/package/commander)  
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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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# 1.187 compress-lzf 1.0.0

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# Compress LZF

This library contains efficient implementation of LZF compression format, as well as additional helper classes that build on JDK-provided gzip (deflate) codec.

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

Other contributors include:

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

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

# 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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# 1.198 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.DGDUkGIikCzPz+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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```

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## 1.201 crack 0.4.3

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## 1.202 crc 3.3.0

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# 1.211 cvs 1.11.23 :11.6.amzn1

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

```
This program is free software; you can redistribute it and/or modify  
it under the terms of the GNU General Public License as published by  
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```

```
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```

```
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along with this program; if not, write to the Free Software  
Foundation, Inc.
```

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) 19xx name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands ``show w'` and ``show c'` should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than ``show w'` and ``show c'`; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program ``Gnomovision'` (a program to direct compilers to make passes at assemblers) written by James Hacker.

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

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License



treats it as such.

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

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

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

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

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"Source code" for a work means the preferred form of the work for

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

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
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```

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<signature of Ty Coon>, 1 April 1990  
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That's all there is to it!

## 1.212 D3 3.4.8

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## 1.213 daemons 1.1.9

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## 1.214 daemons 1.2.3

## 1.215 daemons/setup.rb 1.1.9

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# 1.222 debug 2.2.0

## 1.222.1 Available under license :

```
# debug
```

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

```
## Installation
```

```
```bash
$ npm install debug
```
```

```
## Usage
```

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

Example `_app.js``:

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

```
// fake app
```

```
debug('booting %s', name);
```

```
http.createServer(function(req, res){
  debug(req.method + ' ' + req.url);
  res.end('hello\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 `"+NNNmms"` 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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## 1.227 defaults 1.0.3

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## 1.228 delayed-stream 1.0.0

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## 1.229 delayed-stream 0.0.5

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## 1.230 delegates 0.1.0

### 1.230.1 Available under license :

```
# delegates
```

```
Node method and accessor delegation utility.
```

```
## 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 });
...

```

# License

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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

### 1.233.1 Available under license :

# Destroy

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[![Test coverage][coveralls-image]][coveralls-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>  
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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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# 1.241 di 0.0.1

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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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```
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```

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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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# 1.260 end-of-stream 0.1.5

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# end-of-stream

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

```
npm install end-of-stream
```

## Usage

Simply pass a stream and a callback to the `eos`.

Both legacy streams and streams2 are supported.

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

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

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

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

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

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

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

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## 1.261 error-ex 1.3.0

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## 1.262 erubis 2.7.0

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## 1.264 escape-string-regexp 1.0.3

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

## License

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```

## 1.265 etag 1.7.0

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## 1.267 eventmachine 1.0.7

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lib/em/buftok.rb

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## 1.269 eventmachine 1.2.0.1

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### 1.271 exit-hook 1.1.1

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## M4sh Initialization. ##
## ----- ##

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/* -----*-C-*-----
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Target configuration macros for Motorola 68K.
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```

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# 1.285 filename-regex 2.0.0

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```
# 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**
```

```
+ [github/jonschlinkert](https://github.com/jonschlinkert)
```

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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

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## 1.291 font-awesome-rails 4.4.0

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Jay Adkisson  
Jordan Sissel  
Marc Fournier  
Michael Blume  
Pierre-Yves Ritschard  
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sbuss  
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Daniel Haskin (github: djhaskin987)

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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)
```

```
## Disclaimer
```

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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```

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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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## 1.327 grizzly-framework 2.3.16

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## 1.331 gtk2 2.24.23

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This option is useful when you wish to copy part of the code of



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## 1.332 guava 14.0

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 */
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lz4\_encoder.h,lz4hc.h,lz4hc.c,lz4hc\_encoder.h},

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LZ4 - Fast LZ compression algorithm

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```
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```

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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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 files, while keeping the GPL for all the rest. This way, it still is mandatory to redistribute modified code under customer request, but at the same time, it is expressly permitted to write, compile, link and load non-GPL code using the LGPL header files and not to distribute them if it causes a legal problem.

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Willy Tarreau - w@lwt.eu

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```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
```

Ty Coon, President of Vice

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## 1.342 har-validator 1.8.0

### 1.342.1 Available under license :

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

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

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

```
## Install
```

```
```shell
# to use in cli
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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```

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# 1.343 har-validator 1.8.0

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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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From strings/apr\_fnmatch.c, include/apr\_fnmatch.h, misc/unix/getopt.c, 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.  
Copyright (C) 2000 by Martin Pool <mbp@humblebug.org.au>
```

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From strings/apr\_snprintf.c:

```
*  
* cvt - IEEE floating point formatting routines.  
*   Derived from UNIX V7, Copyright(C) Caldera International Inc.  
*
```

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<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"><head><!--
XX
X
    This file is generated from xml source: DO NOT EDIT
XX
X
-->
<title>The Apache License, Version 2.0 - Apache HTTP Server</title>
<link href="/style/css/manual.css" rel="stylesheet" media="all" type="text/css" title="Main stylesheet" />
<link href="/style/css/manual-loose-100pc.css" rel="alternate stylesheet" media="all" type="text/css" title="No
Sidebar - Default font size" />
```

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<link href="/style/css/manual-print.css" rel="stylesheet" media="print" type="text/css" />
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<p class="menu"><a href="/mod/">Modules</a> | <a href="/mod/directives.html">Directives</a> | <a
href="/faq/">FAQ</a> | <a href="/glossary.html">Glossary</a> | <a href="/sitemap.html">Sitemap</a></p>
<p class="apache">Apache HTTP Server Version 2.2</p>
</div>
<div class="up"><a href="/"></a></div>
<div id="path">
<a href="http://www.apache.org">Apache</a> > <a href="http://httpd.apache.org">HTTP Server</a> > <a
href="http://httpd.apache.org/docs/">Documentation</a> > <a href="/">Version 2.2</a></div><div id="page-
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<div class="toplang">
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</div>

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*
*/

```

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```

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* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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*
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*/
```

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```
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# install - install a program, script, or datafile
# This comes from X11R5 (mit/util/scripts/install.sh).
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Written by: Philip Hazel <ph10@cam.ac.uk>

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```
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=====
```

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Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

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For the xml\expat\conf\tools\install-sh component:

```
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# This comes from X11R5 (mit/util/scripts/install.sh).  
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```
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Written by: Philip Hazel <ph10@cam.ac.uk>

University of Cambridge Computing Service,  
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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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```
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*
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## 1.372 httplog 0.3.2

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# 1.374 i18n 0.7.0

## 1.375 iCal4j 1.0.4 :ical4j-1.0.4

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# 1.377 imurmurhash-js 0.1.4

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## 1.378 indent-string 2.1.0

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## 1.379 infinity-agent 2.0.3

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## 1.380 inflect 0.3.3

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## 1.381 inflight 1.0.4

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## 1.383 inherit 2.2.2

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# 1.385 ini 1.3.4

## 1.385.1 Available under license :

```
{
  "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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## 1.387 insight 0.7.0

## 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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```

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```
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```

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

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```
/*
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 *
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# 1.393 iputils 20071127

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Version 2, June 1991

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\* tracepath.c

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```

## 1.394 is-absolute 0.1.7

### 1.394.1 Available under license :

```

# is-absolute [![NPM version](https://badge.fury.io/js/is-absolute.svg)](http://badge.fury.io/js/is-absolute) [![Build Status](https://travis-ci.org/jonschlinkert/is-absolute.svg)](https://travis-ci.org/jonschlinkert/is-absolute)

```

```

> 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/regexp/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**

+ [github/jonschlinkert](<https://github.com/jonschlinkert>)  
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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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## 1.401 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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```

```
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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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## 1.420 Jackson-core 2.2.2

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

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## 1.422 jackson-databind 2.2.2

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

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## 1.424 jackson-mapper-asl 1.9.11

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

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## 1.430 jasper-runtime 5.5.23

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## 1.436 javax.annotation API 1.2

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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.
// http://www.saxproject.org
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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

```

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* 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
#
# This schema is in public domain. Feel free to use it in anyway you can.
# If you find a bug, please let me know.
# RELAX NG Schema for WSDL 1.1 HTTP Binding
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## 1.447 jaxrs-api 2.0.1

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## 1.450 jcl-over-slf4j-1.7.5.jar 1.7.5

## 1.451 jersey-client 1.9



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

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

/**
 * A committing 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 overridden if the empty constructor is
     * utilized to construct an instance of this class.
     *
     * @return the adapted output stream.
     * @throws java.io.IOException
     */
    protected OutputStream getOutputStream() throws IOException {
        throw new IllegalStateException();
    }

    /**
     * Perform the commit functionality.
     *
     * @throws java.io.IOException
     */
    protected abstract void commit() throws IOException;
};
/*
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```
*/  
package com.sun.jersey.client.impl;
```

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

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

```

import java.util.HashMap;
import java.util.List;
import java.util.Map;

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

    private URI uri;

    private String method;

    private Object entity;

    private final MultivaluedMap<String, Object> metadata;

    private ClientRequestAdapter adapter;

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

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

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

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

        return properties;
    }

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

    public URI getURI() {
        return uri;
    }
}

```

```

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

public String getMethod() {
    return method;
}

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

public Object getEntity() {
    return entity;
}

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

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

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

public ClientRequestAdapter getAdapter() {
    return adapter;
}

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

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

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

```

```

    return clone;
}

// ClientRequestAdapter

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

```

*/
package com.sun.ws.rs.ext;

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

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

```

## 1.452 jersey-client 2.16

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19 May, 2009

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## 1.474 jline 0.9.94

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```

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```
Gnomovision version 69, Copyright (C) year name of author
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate  
parts of the General Public License. Of course, the commands you use may  
be called something other than `show w' and `show c'; they could even be  
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your  
school, if any, to sign a "copyright disclaimer" for the program, if  
necessary. Here is a sample; alter the names:

```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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## 1.482 json 1.8.3

### 1.482.1 Available under license :

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```

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```

## 1.483 json 20141113

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

### 1.484.1 Available under license :

```
package org.json;
```

```
/*
```

```
Copyright (c) 2002 JSON.org
```

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\*/

/\*\*

\* This provides static methods to convert comma delimited text into a  
\* JSONArray, and to convert 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 it 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 JSONObject.  
\* The names for the elements in the JSONObject 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 JSONObject 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(JSONObject 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 JSONObject objects 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 JSONObject objects.
 * @throws JSONException
 */
public static JSONArray toJSONArray(String string) throws JSONException {
    return toJSONArray(new JSONObject(string));
}

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

/**
 * Produce a JSONArray of JSONObject objects 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 JSONObject objects.
 * @throws JSONException
 */
public static JSONArray toJSONArray(JSONArray names, String string)
    throws JSONException {
    return toJSONArray(names, new JSONObject(string));
}

/**
 * Produce a JSONArray of JSONObject objects 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 JSONObject.
* @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 JSONObject. The
* first row will be a list of names obtained by inspecting the first
* JSONObject.
* @param ja A JSONArray of JSONObject.
* @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 JSONObject 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 JSONObject.
* @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();
}
}

```

## 1.485 json-simple 1.1.1

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# 1.486 json-stringify-safe 5.0.1

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## 1.488 json4s-ast\_2.10 3.2.10

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```
{
  "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
```

```
(c) 2011 Jan Lehnardt <jan@apache.org>
```

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## 1.498 Junit 4.10

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

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

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

Chris Caputo, <ccaputo@alt.net> :  
o Added dont\_track\_primary, nopreempt,  
preempt\_delay, and misc\_dynamic.

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

Nick Couchman, <nick.couchman@seakr.com> :  
o Patch for u\_threshold and l\_threshold support.

Willy Tarreau, <w@lwt.eu> :  
o Extended VRRP framework to support floating

priority.

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# 1.517 libcgrou 0.40 :rc1

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

> 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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## 1.562 md5-hex 1.1.0

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## 1.0.6

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zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.8, April 28th, 2013

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## 1.606 ms 0.7.1

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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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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 [inexorable@lindenlab.com](mailto:inexorable@lindenlab.com)

// <https://github.com/inexorable/polyfill>

// ES3/ES5 implementation of the Khronos 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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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation

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[by Markus Kuhn](<http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c>).

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```

- HTTP Parser, located at `deps/http_parser`. HTTP Parser's license follows:

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""

```
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version 1.2.4, March 14th, 2010
```

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```
*/
```

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""

- test/gc/node\_modules/weak. Node-weak is a node.js addon that provides garbage collector notifications. Node-weak's license follows:

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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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```

```
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## 1.662 options 0.0.6

## 1.663 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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## 1.666 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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Mark Murphy <[markm@tyrell.com](mailto:markm@tyrell.com)> has contributed performance  
improvements to Perl5Substitution as well as adding support for  
\uULIE and escaping of \$.

Michael Davey <[michael.davey@codera.org](mailto:michael.davey@codera.org)> fixed some documentation and  
added a missing int substitute(...) method to Perl5Util.

Harald Kuhn <[harald@ontopia.net](mailto:harald@ontopia.net)> updated  
MatchActionProcessor.processMatches() to accommodate character encodings.

## 1.669 os-homedir 1.0.1

### 1.669.1 Available under license :

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

```
## License
```

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

> 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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# 1.672 osenv 0.1.3

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# 1.674 osgi-resource-locator 1.0.1

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```
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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](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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```

```
> 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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## THE C++ WRAPPER FUNCTIONS

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mgo - MongoDB driver for Go

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mgo - MongoDB driver for Go

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```

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"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html>
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
```

```
<title>ICU License - moved to LICENSE</title>
```

```
</head>
```

```
<body BGCOLOR="#ffffff">
```

```
<p>
```

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```
</p>
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</body>
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</html>
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# -----

```

#### 4. Burmese Word Break Dictionary Data (burmesedict.txt)

```

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#
# This list is part of a project hosted at:
# github.com/kanyawtech/myanmar-karen-word-lists
#
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```

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#### # 7. Database Ownership

```
#
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# not apply to the TZ Database or contributions that individuals make
# to it. Should any claims be made and substantiated against the TZ
# Database, the organization that is providing the IANA
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# understanding with the IETF, currently ICANN, may act in accordance
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```

```
////////////////////////////////////
```

```
//
```

```
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```

```
//
```

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```

```

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// http://www.boost.org/LICENSE_1_0.txt)
//
// 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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```

```

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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(TRAIT_NAME##_ignore_signature, FUNC_NAME)
\
\
template <typename Type, class> \
struct TRAIT_NAME \
: public TRAIT_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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```

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===

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End  
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-----

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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

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

University of Cambridge Computing Service,  
Cambridge, England.

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#### PCRE JUST-IN-TIME COMPILATION SUPPORT

-----

Written by: Zoltan Herczeg  
Email local part: hzmester  
Email domain: freemail.hu

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#### STACK-LESS JUST-IN-TIME COMPILER

-----

Written by: Zoltan Herczeg  
Email local part: hzmester  
Email domain: freemail.hu

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#### THE C++ WRAPPER FUNCTIONS

-----

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THE BASIC LIBRARY FUNCTIONS

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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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mgo - MongoDB driver for Go

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```
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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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"author": "Charlie Robbins <charlie.robbins@gmail.com>",

"url": "http://github.com/indexzero/node-pkginfo.git"

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node-portfinder

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Version 3, 29 June 2007

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## 1.706 prawn-table 0.2.2

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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": "",
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    "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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## 1.714 proto-list 1.2.4

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\* gzip/zlib I/O support.  
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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.  
Alexander Melnikov <alm@sibmail.ru>  
\* HPUX support.  
Oliver Jowett <oliver.jowett@gmail.com>  
\* Detect whether zlib is new enough in configure script.  
\* Fixes for Solaris 10 32/64-bit confusion.  
Evan Jones <evanj@mit.edu>  
\* Optimize Java serialization code when writing a small message to a stream.  
\* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.  
\* Clean up some Java warnings.  
\* Fix bug with permanent callbacks that delete themselves when run.  
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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## 1.723 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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## 1.727 python-numpy 1.9.1

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## 1.728 python-six 1.9.0

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## 1.732 qs 2.3.3

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## 1.734 rack 1.5.5

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## 1.737 rack-protection 1.5.3

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## 1.744 rails\_serve\_static\_assets 0.0.5

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## 1.747 rake 10.4.2

## 1.748 rake 10.3.2

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## 1.750 rb-readline 0.5.3

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## 1.751 rc 1.1.5

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

## 1.753 read-all-stream 3.0.1

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## 1.760 rechoir 0.6.2

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## 1.764 redis 3.2.2

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## 1.783 responders 1.1.2

## 1.784 response-time 2.3.1

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# 1.792 rndm 1.1.0

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    "email": "me@jongleberry.com",
    "url": "http://jongleberry.com",
    "twitter": "https://twitter.com/jongleberry"
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  "scripts": {
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  ]
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# 1.793 RoaringBitmap 0.4.5

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## 1.794 rolify 4.1.1

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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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# 1.804 ruby-gems-mixlib-shellout 1.6.1 :1

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## 1.809 safe\_yaml 1.0.4

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## 1.813 sax 0.6.1

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## 1.817 scala-library 2.10.4

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

Subject: 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>

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best

Todd

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> the Fedora project is classifying the entire SciPy package as GPLed  
> because one package, scipy.weave, uses blitz. (the rest of the code is  
> all BSD). We were about to launch into the re-factoring step to make  
> the blitz portion optional, when it occurred to us to just ask you  
> guys first. :-)  
>  
> Blitz is included in the scipy.weave package which allows you to  
> inline C/C++ within Python. Users have the option of converting NumPy  
> arrays to blitz arrays for use in C++. There is also a function  
> (weave.blitz) that will automatically convert NumPy expressions in  
> Python to Blitz expressions in C++. Often this shows notable speed  
> improvements. Our re-factoring step will require us to split the  
> blitz code into the blitz and non-blitz portions. This is a bit of a  
> pain, and ends up with more installation issues than if we didn't do  
> it.  
>  
> Thanks for your consideration,  
>  
> --  
> Jarrod Millman  
> Computational Infrastructure for Research Labs  
> 10 Giannini Hall, UC Berkeley



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- \* Tatu Saloranta
- \* Providing benchmark suite
- \* Alec Wysoker
- \* Performance and memory usage improvement

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## 1.845 sntp 1.0.9

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#### # A. HISTORY OF THE SOFTWARE

# =====

#

# Python was created in the early 1990s by Guido van Rossum at Stichting  
# Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands  
# as a successor of a language called ABC. Guido remains Python's  
# principal author, although it includes many contributions from others.

#

# In 1995, Guido continued his work on Python at the Corporation for  
# National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>)  
# in Reston, Virginia where he released several versions of the  
# software.

#

# In May 2000, Guido and the Python core development team moved to  
# BeOpen.com to form the BeOpen PythonLabs team. In October of the same  
# year, the PythonLabs team moved to Digital Creations (now Zope  
# Corporation, see <http://www.zope.com>). In 2001, the Python Software  
# Foundation (PSF, see <http://www.python.org/psf/>) was formed, a  
# non-profit organization created specifically to own Python-related  
# Intellectual Property. Zope Corporation is a sponsoring member of  
# the PSF.

#

# All Python releases are Open Source (see <http://www.opensource.org> for  
# the Open Source Definition). Historically, most, but not all, Python  
# releases have also been GPL-compatible; the table below summarizes  
# the various releases.

#

| # Release | Derived | Year | Owner | GPL-            |
|-----------|---------|------|-------|-----------------|
| # from    |         |      |       | compatible? (1) |

#

|                  |  |           |     |     |
|------------------|--|-----------|-----|-----|
| # 0.9.0 thru 1.2 |  | 1991-1995 | CWI | yes |
|------------------|--|-----------|-----|-----|

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# 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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#
# (2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
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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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# 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
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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

```

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# 2.4.3      2.4.2      2006      PSF      yes
# 2.4.4      2.4.3      2006      PSF      yes
# 2.5        2.4          2006      PSF      yes
# 2.5.1      2.5          2007      PSF      yes
# 2.5.2      2.5.1      2008      PSF      yes
# 2.5.3      2.5.2      2008      PSF      yes
# 2.6        2.5          2008      PSF      yes
# 2.6.1      2.6          2008      PSF      yes
# 2.6.2      2.6.1      2009      PSF      yes
# 2.6.3      2.6.2      2009      PSF      yes
# 2.6.4      2.6.3      2009      PSF      yes
# 2.6.5      2.6.4      2010      PSF      yes
# 2.7        2.6          2010      PSF      yes

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#
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```
# Footnotes:
```

```
#
```

```

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#
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# because its license has a choice of law clause. According to
# CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1
# is "not incompatible" with the GPL.

```

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#
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=====  
For Scala Interpreter classes (all .scala files in repl/src/main/scala  
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and for SerializableMapWrapper in JavaUtils.scala:  
=====

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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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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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rem

rem This is the entry point for running Spark submit. To avoid polluting the
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cmd /V /E /C %~dp0spark-submit2.cmd %*
```

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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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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta ([tatu.saloranta@iki.fi](mailto:tatu.saloranta@iki.fi)), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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```

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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 the Boto EC2 library (ec2/third\_party/boto\*.zip):  
=====

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For CloudPickle (pyspark/cloudpickle.py):  
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=====  
For Py4J (python/lib/py4j-0.8.2.1-src.zip)  
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For DPark join code (python/pyspark/join.py):  
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```
=====
For heapq (pyspark/heapq3.py):
=====
```

```
# A. HISTORY OF THE SOFTWARE
```

```
# =====
#
# Python was created in the early 1990s by Guido van Rossum at Stichting
# Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
# as a successor of a language called ABC. Guido remains Python's
# principal author, although it includes many contributions from others.
#
# In 1995, Guido continued his work on Python at the Corporation for
# National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
# in Reston, Virginia where he released several versions of the
# software.
#
# In May 2000, Guido and the Python core development team moved to
# BeOpen.com to form the BeOpen PythonLabs team. In October of the same
# year, the PythonLabs team moved to Digital Creations (now Zope
# Corporation, see http://www.zope.com). In 2001, the Python Software
# Foundation (PSF, see http://www.python.org/psf/) was formed, a
# non-profit organization created specifically to own Python-related
# Intellectual Property. Zope Corporation is a sponsoring member of
# the PSF.
#
# All Python releases are Open Source (see http://www.opensource.org for
# the Open Source Definition). Historically, most, but not all, Python
# releases have also been GPL-compatible; the table below summarizes
# the various releases.
#
# Release      Derived  Year   Owner   GPL-
# from                compatible? (1)
#
# 0.9.0 thru 1.2      1991-1995  CWI     yes
# 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

```

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#
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```
# Footnotes:
```

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#
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```
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```

```
#
```

```
# (2) According to Richard Stallman, 1.6.1 is not GPL-compatible,
# because its license has a choice of law clause. According to
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```

```
#
```

```
# Thanks to the many outside volunteers who have worked under Guido's
# direction to make these releases possible.
```

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#
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=====

```

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## 1.864 sqlite 3.6.20

## 1.865 sshkey 1.8.0

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## 1.871 stream 2.7.0

### 1.871.1 Available under license :

```
/*  
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 *  
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 *  
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 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.  
 * See the License for the specific language governing permissions and  
 * limitations under the License.  
*/
```

```
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, -
    0.203400000000002, -0.070199999999998, -0.129600000000003, -0.364199999999997, -0.480600000000003, -
    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, -
    1.3754, -1.29859999999999, -1.607, -1.3292, -1.7606,},
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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, 1.491600000000001, 1.1524, 1.1892,
    0.841399999999993, 0.879800000000003, 0.837599999999995, 0.469800000000006, 0.765600000000006,
    0.331000000000003, 0.591399999999993, 0.601200000000006, 0.701599999999999, 0.558199999999999,
    0.339399999999998, 0.354399999999998, 0.491200000000006, 0.308000000000007, 0.355199999999996, -
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    0.370800000000003, 0.193200000000004, -0.0848000000000013, 0.0867999999999967, -0.327200000000005, -
    0.285600000000002, 0.311400000000006, -0.128399999999999, -0.754999999999995, -0.209199999999996, -
    0.293599999999998, -0.364000000000004, -0.253600000000006, -0.821200000000005, -0.253600000000006, -
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    0.557400000000001, -0.114599999999996, -0.295000000000002, -0.534800000000004, 0.346399999999998, -
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    27.686, 27.291, 26.5672, 25.8556, 25.4982, 24.8204, 24.4252, 23.7744, 23.0786, 22.8344, 22.0294, 21.8098,
    21.0794, 20.5732, 20.1878, 19.5648, 19.2902, 18.6784, 18.3352, 17.8946, 17.3712, 17.0852, 16.499, 16.2686,
    15.6844, 15.2234, 14.9732, 14.3356, 14.2286, 13.7262, 13.3284, 13.1048, 12.5962, 12.3562, 12.1272, 11.4184,
    11.4974, 11.0822, 10.856, 10.48, 10.2834, 10.0208, 9.637, 9.51739999999999, 9.05759999999999,
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    6.6454, 6.87, 6.5428, 6.19999999999999, 6.029400000000001, 5.627800000000001, 5.6782, 5.792,
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4.696, 4.54040000000001, 4.07300000000001, 4.37139999999999, 3.7216, 3.7328, 3.42080000000001, 3.41839999999999, 3.94239999999999, 3.27719999999999, 3.411, 3.13079999999999, 2.76900000000001, 2.92580000000001, 2.68279999999999, 2.75020000000001, 2.70599999999999, 2.3886, 3.01859999999999, 2.45179999999999, 2.92699999999999, 2.41720000000001, 2.41139999999999, 2.03299999999999, 2.51240000000001, 2.5564, 2.60079999999999, 2.41720000000001, 1.80439999999999, 1.99700000000001, 2.45480000000001, 1.8948, 2.2346, 2.30860000000001, 2.15479999999999, 1.88419999999999, 1.6508, 0.67719999999999, 1.72540000000001, 1.4752, 1.72280000000001, 1.66139999999999, 1.16759999999999, 1.79300000000001, 1.00059999999999, 0.905200000000008, 0.659999999999997, 1.55879999999999, 1.1636, 0.688199999999995, 0.712600000000009, 0.450199999999995, 1.1978, 0.975599999999986, 0.165400000000005, 1.727, 1.19739999999999, -0.252600000000001, 1.13460000000001, 1.3048, 1.19479999999999, 0.313400000000001, 0.878999999999991, 1.12039999999999, 0.853000000000009, 1.67920000000001, 0.856999999999999, 0.448599999999999, 1.2362, 0.953399999999988, 1.02859999999998, 0.563199999999995, 0.663000000000011, 0.723000000000013, 0.756599999999992, 0.256599999999992, -0.837600000000009, 0.620000000000005, 0.821599999999989, 0.216600000000028, 0.205600000000004, 0.220199999999977, 0.372599999999977, 0.334400000000016, 0.928400000000011, 0.972800000000007, 0.192400000000021, 0.487199999999973, -0.413000000000011, 0.807000000000016, 0.120600000000024, 0.769000000000005, 0.870799999999974, 0.665000000000002, 0.118200000000002, 0.401200000000017, 0.635199999999998, 0.135400000000004, 0.175599999999974, 1.16059999999999, 0.34620000000001, 0.521400000000028, -0.586599999999976, -1.16480000000001, 0.968399999999974, 0.836999999999989, 0.779600000000016, 0.985799999999983,},

// 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, 1.74780000000001, 1.42920000000004, 2.39300000000003, 2.22779999999998, 2.34339999999997, 0.87259999999992, 3.88400000000001, 1.80600000000004, 1.91759999999999, 1.16779999999994, 1.50320000000011, 2.52500000000009, 0.22640000000012, 2.31500000000005, 0.930000000000064, 1.25199999999995, 2.14959999999996, 0.040799999999902, 2.54479999999999, 1.32960000000003, 0.197400000000016, 2.52620000000002, 3.33279999999991, -1.34300000000007, 0.422199999999975, 0.917200000000093, 1.12920000000008, 1.46060000000011, 1.45779999999991, 2.87280000000001, 3.33359999999993, -1.34079999999994, 1.57680000000005, 0.363000000000056, 1.40740000000005, 0.656600000000026, 0.801400000000058, -0.454600000000028, 1.51919999999996, },

// precision 9

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3.157799999999995, -4.97879999999986, -4.89899999999989, -7.48880000000008, -5.94799999999987, -  
5.68060000000014, -6.67180000000008, -4.70499999999993, -7.27779999999984, -4.65799999999999, -  
4.43620000000001, -4.32139999999981, -5.18859999999995, -6.66879999999992, -6.48399999999992, -  
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// precision 10

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490.6364, 480.2468, 470.4588, 460.3832, 451.0584, 440.8606, 431.3868, 422.5062, 413.1862, 404.463, 395.339,  
386.1936, 378.1292, 369.1854, 361.2908, 353.3324, 344.8518, 337.5204, 329.4854, 321.9318, 314.552, 306.4658,  
299.4256, 292.849, 286.152, 278.8956, 271.8792, 265.118, 258.62, 252.5132, 245.9322, 239.7726, 233.6086,  
227.5332, 222.5918, 216.4294, 210.7662, 205.4106, 199.7338, 194.9012, 188.4486, 183.1556, 178.6338, 173.7312,  
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50.4985999999999, 52.2588000000001, 47.3914, 45.6244000000002, 42.8377999999998, 43.0072,  
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32.4679999999998, 30.8670000000002, 28.6507999999999, 28.9099999999999, 27.5983999999999,  
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21.3346000000001, 17.7031999999999, 20.6111999999998, 19.5545999999999, 15.7375999999999,  
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13.2754, 10.8697999999999, 11.248, 7.3768, 4.72339999999986, 7.97899999999981, 8.75039999999999,  
7.68119999999999, 9.7199999999998, 7.7391999999998, 5.6224000000002, 7.44560000000001,  
6.6601999999998, 5.9058, 4.00199999999995, 4.51699999999983, 4.68240000000014, 3.86220000000003,  
5.13639999999987, 5.98500000000013, 2.47719999999981, 2.61999999999989, 1.62800000000016,  
4.65000000000009, 0.225599999999758, 0.831000000000131, -0.359400000000278, 1.27599999999984, -  
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1.47940000000017, -0.188400000000001, -2.10720000000038, -2.04159999999956, -3.12880000000041, -  
4.16160000000036, -0.612799999999879, -3.48719999999958, -8.17900000000009, -5.37780000000021, -  
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// precision 11

{1476, 1449.6014, 1423.5802, 1397.7942, 1372.3042, 1347.2062, 1321.8402, 1297.2292, 1272.9462,  
1248.9926, 1225.3026, 1201.4252, 1178.0578, 1155.6092, 1132.626, 1110.5568, 1088.527, 1066.5154, 1045.1874,  
1024.3878, 1003.37, 982.1972, 962.5728, 942.1012, 922.9668, 903.292, 884.0772, 864.8578, 846.6562, 828.041,  
809.714, 792.3112, 775.1806, 757.9854, 740.656, 724.346, 707.5154, 691.8378, 675.7448, 659.6722, 645.5722,  
630.1462, 614.4124, 600.8728, 585.898, 572.408, 558.4926, 544.4938, 531.6776, 517.282, 505.7704, 493.1012,  
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265.3286, 257.5706, 249.6014, 242.544, 235.5976, 229.583, 220.9438, 214.672, 208.2786, 201.8628, 195.1834, 191.505, 186.1816, 178.5188, 172.2294, 167.8908, 161.0194, 158.052, 151.4588, 148.1596, 143.4344, 138.5238, 133.13, 127.6374, 124.8162, 118.7894, 117.3984, 114.6078, 109.0858, 105.1036, 103.6258, 98.6018000000004, 95.7618000000002, 93.5821999999998, 88.5900000000001, 86.9992000000002, 82.8800000000001, 80.4539999999997, 74.6981999999998, 74.3644000000004, 73.2914000000001, 65.5709999999999, 66.9232000000002, 65.1913999999997, 62.5882000000001, 61.5702000000001, 55.7035999999998, 56.1764000000003, 52.7596000000003, 53.0302000000001, 49.0609999999997, 48.4694, 44.933, 46.0474000000004, 44.7165999999997, 41.9416000000001, 39.9207999999999, 35.6328000000003, 35.5276000000003, 33.1934000000001, 33.2371999999996, 33.3864000000003, 33.9228000000003, 30.2371999999996, 29.1373999999996, 25.2272000000003, 24.2942000000003, 19.8338000000003, 18.9005999999999, 23.0907999999999, 21.8544000000002, 19.5176000000001, 15.4147999999996, 16.9314000000004, 18.6737999999996, 12.9877999999999, 14.3688000000002, 12.0447999999997, 15.5219999999999, 12.5299999999997, 14.5940000000001, 14.3131999999996, 9.4549999999993, 12.9441999999999, 3.9113999999996, 13.1373999999996, 5.44720000000052, 9.82779999999912, 7.87279999999919, 3.67760000000089, 5.46980000000076, 5.55099999999948, 5.65979999999945, 3.89439999999922, 3.1275999999998, 5.65140000000065, 6.30620000000009, 3.90799999999945, 1.87060000000019, 5.17020000000048, 2.46680000000015, 0.770000000000437, -3.72340000000077, 1.16400000000067, 8.05340000000069, 0.135399999999208, 2.15940000000046, 0.766999999999825, 1.05940000000001, 3.15500000000065, -0.287399999999252, 2.37219999999979, -2.86620000000039, -1.63199999999961, -2.22979999999916, -0.15519999999924, -1.46039999999994, -0.262199999999211, -2.34460000000036, -2.80780000000005, -3.22179999999935, -5.60159999999996, -8.42200000000048, -9.43740000000071, 0.161799999999857, -10.4755999999998, -10.0823999999993, },

// precision 12

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// precision 13

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// precision 14

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850.486000000034, -757.432000000003, -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
    {
        //Smooch 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++;
        tmp = 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++;
            tmp = consumeDuplicates(tmp, getSparseIndex(tmpVal), tmpi);
            seti++;
        } else if (getSparseIndex(setVal) < getSparseIndex(tmpVal)) {
            newSet.add(setVal);
            seti++;
        } else {
            newSet.add(tmpVal);
            tmpi++;
            tmp = 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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```

```
    *
```

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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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# 1.874 string-length 1.0.1

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## 1.878 stringstream 0.0.4

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## 1.880 StringTemplate 3.2.1

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\*/

# 1.881 strip-ansi 3.0.0

## 1.881.1 Available under license :

```
# strip-ansi [![Build Status](https://travis-ci.org/sindresorhus/strip-ansi.svg?branch=master)](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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# 1.883 strip-bom 2.0.0

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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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# 1.890 tachyon 0.5.0

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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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\*

\* @(#) \$Header: /tcpdump/master/tcpdump/lbl/os-osf4.h,v 1.1 2002-12-11 05:03:13 guy Exp \$ (LBL)

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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.ucl.ac.uk) and
* Niels Provos (provos@physnet.uni-hamburg.de).
*
* This code was written by John Ioannidis for BSD/OS in Athens, Greece,
* in November 1995.
*
* Ported to OpenBSD and NetBSD, with additional transforms, in December 1996,
* by Angelos D. Keromytis.
*
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## 1.897 tftp-server 0.49 :7.el6.x86\_64

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## 1.898 thin 1.6.4

## 1.899 thin 1.6.1

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

```
#
# Created by James Tucker on 2008-06-19.
# Copyright 2008 James Tucker <raggi@rubyforge.org>.
/**
 * Copyright (c) 2005 Zed A. Shaw
 * You can redistribute it and/or modify it under the same terms as Ruby.
 */
```

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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=====

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=====

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## 1.900 thor 0.19.1

## 1.901 thread\_safe 0.3.5

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## 1.921 tzinfo 1.2.2

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## 1.952 vegas 0.1.11

## 1.953 velocity 1.5

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## 1.955 webhdfs 0.6.0

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# 1.959 Winpcap 4.1.3

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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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[![Build Status](https://secure.travis-ci.org/einaros/ws.png)](http://travis-ci.org/einaros/ws)

# 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](http://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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## 1.967 xml2js 0.4.4

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## 1.968 xmlbuilder 0.4.2

### 1.968.1 Available under license :

# 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>
```
```

</squares>

...

See the [Usage](<https://github.com/oozcitak/xmlbuilder-js/wiki/Usage>) page in the wiki for more detailed instructions.

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## 1.969 xmlenc 0.52

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## 1.970 xmlhttprequest 1.4.2



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## 1.971 xtend 4.0.0

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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",
  "main": "immutable",
  "scripts": {
    "test": "node test"
  },
  "dependencies": {},
  "devDependencies": {
```

```

    "tape": "~1.1.0"
  },
  "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"
  },
  "licenses": [
    {
      "type": "MIT",
      "url": "http://github.com/raynos/xtend/raw/master/LICENSE"
    }
  ],
  "testling": {
    "files": "test.js",
    "browsers": [
      "ie/7..latest",
      "firefox/16..latest",
      "firefox/nightly",
      "chrome/22..latest",
      "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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```

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Version 3, 29 June 2007

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## 1.982 Zookeeper 3.4.5

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# 1.983 zookeeper 1.4.11

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-----  
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```
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//
///
```

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