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1.36 angular-ui-router0 0.2.12

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1.38 ansi 0.3.0

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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('
')  // 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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1.42 ansi-regex 2.0.0

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

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

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

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

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

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

\u001b[4mcake\u001b[0m'.match(ansiRegex());
//=> [\u001b[4m, \u001b[0m]```
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### 1.43 ansi-styles 2.1.0

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

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

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

![](screenshot.png)

### Install

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

### Usage

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

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

### API

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

### Styles

#### Modifiers

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

### Colors

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

### Background colors

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

## Advanced usage

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

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

##### Example

```js
console.log(ansi.colors.green.open);
```
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### 1.45 ansible 1.9.2

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Version 3, 29 June 2007

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1.58 archy 1.0.0

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1.59 are-we-there-yet 1.0.4

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```json
{
  "name": "are-we-there-yet",
  "version": "1.0.4",
  "description": "Keep track of the overall completion of many disparate processes",
  "main": "index.js",
  "scripts": {
    "test": "tap test/*.js"
  },
  "repository": {
    "type": "git"
  }
}
```
1.60 arel 5.0.1.20140414130214

1.61 argparse 1.0.3

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1.62 arr-diff 1.1.0

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1.63 arr-flatten 1.0.1

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1.64 arr-pm 0.0.10

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1.66 array-filter 0.0.1

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```javascript
# array-filter

`Array#filter` for older browsers.


```javascript
## Usage

```javascript
```
```javascript

```javascript
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!
}));
// => []
```

```javascript
## Installation

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

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

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

```javascript
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1.69 array-slice 0.2.3

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1.71 array-unique 0.2.1

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### 1.76 async 1.4.0

### 1.77 async 0.2.10-0

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1.79 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.

```sh
# 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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1.80 attr_encrypted 1.3.5

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1.81 Avro-avro 1.7.5 :Java

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1.83 aws-sign2 0.5.0

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Version 2.0, January 2004

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1.84 backports 3.6.8

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1.86 balanced-match 0.2.0

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1.87 base64-url 1.2.1

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1.89 basic-auth 1.0.0
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# basic-auth

Generic basic auth Authorization header field parser for whatever.

## Installation

```
```

## 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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1.90 basic-auth 1.0.3

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1.91 basic-auth-connect 1.0.0
1.91.1 Available under license :

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

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

## API

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

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

Simple username and password

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

Callback verification

```js
connect()
  .use(basicAuth(function(user, pass){
    return 'tj' == user && 'wahoo' == pass;
  }));
```

Async callback verification, accepting `fn(err, user)`.

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

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1.92 batch 0.5.2
1.92.1 Available under license:

```
# batch

Simple async batch with concurrency control and progress reporting.

## Installation

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

batch = new Batch;

batch.concurrency(4);

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

```js
batch.on('progress', function(e){
```
### 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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1.93 bcrypt-ruby 3.1.7

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1.94 Bean Validation API 1.1.0.Final

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1.95 Beanshell 2.0b4

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# Introduction

Bluebird is a fully featured promise library with focus on innovative features and performance.

# Topics

- [Features]
- [Quick start]
- [API Reference and examples]
- [Support]
- [What are promises and why should I use them?]
- [Questions and issues]
- [Error handling]
- [Development]
  - [Testing]
  - [Benchmarking]
- [Custom builds]
- [For library authors]
- [What is the sync build?]
- [License]
- [Snippets for common problems]
- [Promise anti-patterns]
- [Changelog]
- [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 &asymp;38.92KB minified*, 11.65KB gzipped and has no external dependencies.

*Google Closure Compiler using Simple.
Browser support

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


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

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

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

---

# 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)

---

# 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);
        }
    };
```
```js
try {
    var ret = JSON.parse(body);
    return done(null, ret);
}
catch (e) {
    done(e);
}
);
}.function (err, results) {
    if (err) {
        console.log(err);
    } else {
        console.log('All Needle requests successful');
        // results is a 1 to 1 mapping in order of URLs > needle.body
        processAndSaveAllInDB(results, function (err) {
            if (err) {
                return done(err);
            }
            console.log('All Needle requests saved');
            done(null);
        });
    }
};
```

Is more pleasing to the eye when done with promises:

```js
Promise.promisifyAll(needle);
var options = {};
var current = Promise.resolve();
Promise.map(URLs, function(URL) {
    current = current.then(function () {
        return needle.getAsync(URL, options);
    });
    return current;
}).map(function(responseAndBody){
    return JSON.parse(responseAndBody[1]);
}).then(function (results) {
    return processAndSaveAllInDB(results);
}).then(function(){
    console.log('All Needle requests saved');
}).catch(function (e) {
    console.log(e);
});
```
Also promises don’t just give you correspondences for synchronous features but can also be used as limited event
emitters or callback aggregators.

More reading:

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

# Questions and issues

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

# Error handling

This is a problem every promise library needs to handle in some way. Unhandled rejections/exceptions don’t really have a good agreed-on asynchronous correspondence. The problem is that it is impossible to predict the future and know if a rejected promise will eventually be handled.

There are two common pragmatic attempts at solving the problem that promise libraries do.

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

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

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

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

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

If you want to override the default handler for these possibly unhandled rejections, you can pass yours like so:
```js
Promise.onPossiblyUnhandledRejection(function(error){
    throw error;
});
```

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

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

right after the library is loaded.

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

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

to enable long stack traces in all instances of bluebird.

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

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

#### Expected and unexpected errors

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

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

```js
try {
    //code
} catch(e) {
    if( e instanceof WhatIWantError) {
        //handle
    } else {
        throw e;
    }
```
Without such checking, unexpected errors would be silently swallowed. However, with promises, bluebird brings the future (hopefully) here now and extends the `.catch` to accept potential error type eligibility

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

---

# Development

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

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

```sh
git clone git@github.com:petkaantonov/bluebird.git
cd bluebird
npm install
```

## Testing

To run all tests, run

```
node tools/test
```

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

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

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

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

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

#### Testing in browsers

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

```
node tools/test --run=cancel.js --browser
```
This will automatically create a server (default port 9999) and open it in your default browser once the tests have
been compiled.
Keep the test tab active because some tests are timing-sensitive and will fail if the browser is throttling timeouts.
Chrome will do this for example when the tab is not active.
#### Supported options by the test tool
The value of boolean flags is determined by presence, if you want to pass false value for a boolean flag, use the `no`-prefix e.g. `--no-browser`.
- `--run=String` - Which tests to run (or compile when testing in browser). Default `"all"`. Can also be a glob string
(relative to ./test/mocha folder).
- `--cover=String`. Create code coverage using the String as istanbul reporter. Coverage is created in the ./coverage
folder. No coverage is created by default, default reporter is `"html"` (use `--cover` to use default reporter).
- `--browser` - Whether to compile tests for browsers. Default `false`.
- `--port=Number` - Port where local server is hosted when testing in browser. Default `9999`
- `--execute-browser-tests` - Whether to execute the compiled tests for browser when using `--browser`. Default
`true`.
- `--open-browser` - Whether to open the default browser when executing browser tests. Default `true`.
- `--fake-timers` - Whether to use fake timers (`setTimeout` etc) when running tests in node. Default `true`.
- `--js-hint` - Whether to run JSHint on source files. Default `true`.
- `--saucelabs` - Whether to create a tunnel to sauce labs and run tests in their VMs instead of your browser when
compiling tests for browser. Default `false`.
## Benchmarks
To run a benchmark, run the given command for a benchmark while on the project root. Requires bash (on windows
the mingw32 that comes with git works fine too).
Node 0.11.2+ is required to run the generator examples.
### 1\. DoxBee sequential
Currently the most relevant benchmark is @gorkikosev's benchmark in the article [Analysis of generators and other
async patterns in node](http://spion.github.io/posts/analysis-generators-and-other-async-patterns-node.html). The
benchmark emulates a situation where n amount of users are making a request in parallel to execute some mixed
async/sync action. The benchmark has been modified to include a warm-up phase to minimize any JITing during
timed sections.
Command: `bench doxbee`
### 2\. Made-up parallel
This made-up scenario runs 15 shimmed queries in parallel.
Command: `bench parallel`

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## Custom builds

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

<table>
<thead>
<tr>
<th>Feature(s)</th>
<th>Command line identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>.any</code> and <code>.Promise.any</code></td>
<td><code>any</code></td>
</tr>
<tr>
<td><code>.race</code> and <code>.Promise.race</code></td>
<td><code>race</code></td>
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<tr>
<td><code>.call</code> and <code>.Promise.call</code></td>
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<tr>
<td><code>.filter</code> and <code>.Promise.filter</code></td>
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<tr>
<td><code>.props</code> and <code>.Promise.props</code></td>
<td><code>props</code></td>
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<tr>
<td><code>.settle</code> and <code>.Promise.settle</code></td>
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<tr><td><a href="API.md#progression">Progression</a></td><td><code>progress</code></td></tr>
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<tr><td><a href="API.md#resource-management">Resource management</a></td><td><code>using</code></td></tr></tbody></table>

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

After that you can run:

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

#### Supported options by the build tool

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

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

```hr```
## For library authors

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

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

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

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

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

<hr>

## What is the sync build?

You may now use sync build by:

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

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

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

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

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

Appears as this in the sync build:

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

This should pressure the CPU slightly less and thus the sync build should perform better. Indeed it does, but only marginally. The biggest performance boosts are from writing efficient Javascript, not from compromising determinism.
Note that while some benchmarks are waiting for the next event tick, the CPU is actually not in use during that time. So the resulting benchmark result is not completely accurate because on node.js you only care about how much the CPU is taxed. Any time spent on CPU is time the whole process (or server) is paralyzed. And it is not graceful like it would be with threads.

```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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### 1.114 Bower 1.7.9

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### 1.116 bower-json 0.4.0

### 1.117 bower-logger 0.2.2
1.118 bower-registry-client 1.0.0

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1.119 brace-expansion 1.1.0

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# brace-expansion


## Example

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

expand('file-{a,b,c}.jpg')
// => ['file-a.jpg', 'file-b.jpg', 'file-c.jpg']

expand('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-{a..e..2}.jpg')
```
```js
var expand = require('brace-expansion');
```

### var expanded = expand(str)
Return an array of all possible and valid expansions of `str`. If none are found, `[str]` is returned.

Valid expansions are:

```js
/^\b(\{[^\{]+\}\{[^\}]\}\{[^\}]\})\b$/
// {a,b,...}
```

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

```js
/^\b[-]?\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
/^\b[a-z]+\b$/
// [a-z...]
```

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
```
```bash
```

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

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1.120 brace-expansion 1.1.2
# brace-expansion


## Example

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

expand('file-{a,b,c}.jpg')
// => ['file-a.jpg', 'file-b.jpg', 'file-c.jpg']

expand('~-v{,,}')
// => ['-v', '-v', '-v']

expand('file{0..2}.jpg')
// => ['file0.jpg', 'file1.jpg', 'file2.jpg']

expand('file-{a..c}.jpg')
// => ['file-a.jpg', 'file-b.jpg', 'file-c.jpg']

expand('file{2..0}.jpg')
// => ['file2.jpg', 'file1.jpg', 'file0.jpg']

expand('file{0..4..2}.jpg')
// => ['file0.jpg', 'file2.jpg', 'file4.jpg']

expand('file-{a..e..2}.jpg')
// => ['file-a.jpg', 'file-c.jpg', 'file-e.jpg']

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

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

expand('ppp{,config,oe{,conf}}')
// => ['ppp', 'pppconfig', 'pppoe', 'pppoeconf']
```
```js
## API
```
```
### var expanded = expand(str)
```
Return an array of all possible and valid expansions of `str`. If none are found, `[str]` is returned.

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

```
```
```
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.

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

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

## Installation
```
```
```
```
With [npm](https://npmjs.org) do:
```
```
```
```bash
npm install brace-expansion
```
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- [Isaac Z. Schlueter](https://github.com/isaacs)

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### 1.121 braces 1.8.2

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1.124 bson_ext 1.5.1

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1.128 builtin-status-codes 1.0.0
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> The map of HTTP status codes from the builtin http module. Exposes the latest directly from `http` in Node, with
a zero-dependencies version for the browser.

```bash
## Install

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

## Usage

```js
## Build

To create a new browser build:

```bash
\$ npm run build
```
1.129 bundler 1.11.2

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1.130 bytes 2.1.0

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# Bytes utility

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

```js
```

```js
```

### Usage

```js
```

```js
```

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

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

**Arguments**

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

**Options**

<table>
<thead>
<tr>
<th>Property</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>thousandsSeparator</td>
<td><code>string</code></td>
<td>Example of values: ‘ ’, ‘,’ and ‘.’... Default value to ‘ ’.</td>
</tr>
</tbody>
</table>

**Returns**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>results</td>
<td><code>string</code>|<code>null</code></td>
<td>Return null upon error. String value otherwise.</td>
</tr>
</tbody>
</table>

**Example**

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

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

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

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

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

**Arguments**

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

**Returns**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>results</td>
<td><code>number</code></td>
<td>Return null upon error. Value in bytes otherwise.</td>
</tr>
</tbody>
</table>

**Example**

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

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

## Installation

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

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1.137 caseless 0.9.0

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

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1.139 CFPropertyList 2.2.8

1.140 chainsaw 0.1.0
1.140.1 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" }
}

1.141 chalk 1.1.1
1.141.1 Available under license :

> Terminal string styling done right

![Build Status](https://travis-ci.org/chalk/chalk.svg?branch=master)
[Coverage Status](https://coveralls.io/repos/chalk/chalk?branch=master)
[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.**

![](https://github.com/chalk/ansi-styles/raw/master/screenshot.png)

## Why

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

## Install

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

## Usage

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

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

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

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

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

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

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

// nest styles of the same type even (color, underline, background)
chalk.green('I am a green line ' +
chalk.blue.underline.bold('with a blue substring') +
' that becomes green again!');
```
Easily define your own themes.
```
```js
var chalk = require('chalk');
var error = chalk.bold.red;
console.log(error('Error!'));
```

Take advantage of console.log [string substitution](http://nodejs.org/docs/latest/api/console.html#console_console_log_data).

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

## API

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

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

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

Multiple arguments will be separated by space.

### chalk.enabled

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

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

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

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

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

```javascript
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.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.

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

console.log(chalk.styles.red);

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:

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

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

#### Styles

### Modifiers
### Colors

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

### Background colors

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

## 256-colors

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

## Windows

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

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

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### 1.142 childprocess 0.5.6

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### 1.143 childprocess 0.5.9

### 1.144 chill 0.5.0
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1.145 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());
    }
}

1.146 chill-protobuf 0.7.0

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1.148 chokidar 1.1.0

1.148.1 Available under license:


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

[![NPM](https://nodei.co/npm-dl/chokidar.png)](https://nodei.co/npm/chokidar/)
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#### [See what’s new in v1.0](https://github.com/paulmillr/chokidar/blob/master/CHANGELOG.md#chokidar-100-7-april-2015)

## Why?
Node.js `fs.watch`:

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

Node.js `fs.watchFile`:

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

Chokidar resolves these problems.

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

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

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

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

## Getting started
Install with npm:

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

Then `require` and use it in your code:

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

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

```javascript
// Example of a more typical implementation structure:

// Initialize watcher.
var watcher = chokidar.watch('file, dir, glob, or array', {
    ignored: /[\\]/,  // ignoring .dotfiles
    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.
### 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.
* `interval` (default: `100`). Interval of file system polling.
* `binaryInterval` (default: `300`). Interval of file system polling for binary files.
  ([see list of binary extensions](https://github.com/sindresorhus/binary-extensions/blob/master/binary-extensions.json))
* `useFsEvents` (default: `true` on OS X). Whether to use the `fsevents` watching interface if available. When set to `true` explicitly and `fsevents` is available this supercedes the `usePolling` setting. When set to `false` on OS X, `usePolling: true` becomes the default.
* `alwaysStat` (default: `false`). If relying upon the `[fs.Stats](http://nodejs.org/api/fs.html#fs_class_fs_stats)
object that may get passed with `add`, `addDir`, and `change` events, set this to `true` to ensure it is provided even in cases where it wasn’t already available from the underlying watch events.

* `depth` (default: `undefined`). If set, limits how many levels of subdirectories will be traversed.

* `awaitWriteFinish` (default: `false`).

By default, the `add` event will fire when a file first appear on disk, before the entire file has been written. Furthermore, in some cases some `change` events will be emitted while the file is being written. In some cases, especially when watching for large files there will be a need to wait for the write operation to finish before responding to a file creation or modification. Setting `awaitWriteFinish` to `true` (or a truthy value) will poll file size, holding its `add` and `change` events until the size does not change for a configurable amount of time. The appropriate duration setting is heavily dependent on the OS and hardware. For accurate detection this parameter should be relatively high, making file watching much less responsive. Use with caution.

* **options.awaitWriteFinish** can be set to an object in order to adjust timing params:

* `awaitWriteFinish.stabilityThreshold` (default: 2000). Amount of time in milliseconds for a file size to remain constant before emitting its event.

* `awaitWriteFinish.pollInterval` (default: 100). File size polling interval.

#### Errors

* `ignorePermissionErrors` (default: `false`). Indicates whether to watch files that don’t have read permissions if possible. If watching fails due to `EPERM` or `EACCES` with this set to `true`, the errors will be suppressed silently.

* `atomic` (default: `true` if `useFsEvents` and `usePolling` are `false`). Automatically filters out artifacts that occur when using editors that use "atomic writes" instead of writing directly to the source file.

### Methods & Events

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

* `.add(path / paths)`: Add files, directories, or glob patterns for tracking. Takes an array of strings or just one string.

* `.on(event, callback)`: Listen for an FS event. Available events: `add`, `addDir`, `change`, `unlink`, `unlinkDir`, `ready`, `raw`, `error`. Additionally `all` is available which gets emitted with the underlying event name and path for every event other than `ready`, `raw`, and `error`.

* `.unwatch(path / paths)`: Stop watching files, directories, or glob patterns. Takes an array of strings or just one string.

* `.close()`: Removes all listeners from watched files.

* `.getWatched()`: Returns an object representing all the paths on the file system being watched by this `FSWatcher` instance. The object's keys are all the directories (using absolute paths unless the `cwd` option was used), and the
values are arrays of the names of the items contained in each directory.

## CLI

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

## Install Troubleshooting

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

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

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

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1.149 clamp 0.6.5

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1.150 ClassMate 1.0.0

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

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1.151 cli-cursor 1.0.2
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1.152 cli-width 1.1.0

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1.154 clone 1.0.2

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1.155 clone-stats 0.0.1

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1.156 code-point-at 1.0.0

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

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

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

## Install

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

## Usage
```js
*/
var codePointAt = require('code-point-at');

codePointAt('');
//=> 128052

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

### API

#### codePointAt(input, [position])

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**1.157 collectd 5.5.0**

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1.164 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)

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

```javascript
#!/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

```javascript
// 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`.

```bash

## 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

```

```bash

## Custom help

You can display arbitrary `--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

```bash

```
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(' $ 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:

```markdown
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';
  });
```
```javascript
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:
    $ 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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1.184 compress-lzf 1.0.0

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# Compress LZF

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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.

1.185 compressible 2.0.5

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1.186 concat-map 0.0.1
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1.188 config-chain 1.1.9
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1.189 config-magic 0.9

1.190 configstore 0.3.2

1.191 connect-timeout 1.6.2
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### 1.195 cookie-signature 1.0.6

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```
# cookie-signature

Sign and unsign cookies.
```
## Example

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

var val = cookie.sign('hello', 'tobiiscool');
val.should.equal('hello.DGDUkGlIkCzPz+C0B064FNgHdEjox7ch8tOBGsIZ5QI');

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

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1.197 corefines 1.9.0

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1.198 crack 0.4.3
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1.209 D3 3.4.8

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1.211 daemons 1.2.3

1.212 daemons/setup.rb 1.1.9

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1.219 debug 0.7.4
1.219.1 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
');
}).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.

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

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

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

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

## Conventions

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

## Wildcards

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

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

## Browser support

Debug works in the browser as well, currently persisted by `localStorage`. 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()`.

```javascript
```
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### 1.220 debug 2.2.0

#### 1.220.1 Available under license:

# debug

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

```bash
```

## Installation

```bash
$ npm install debug
```

## Usage

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

Example _app.js_: 

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

// fake app

debug('booting %s', name);

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

// fake worker of some kind

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

Example _worker.js_:

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

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

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

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

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

#### Windows note

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

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

Then, run the program to be debugged as usual.
## Millisecond diff

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

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

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

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

## Conventions

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

## Wildcards

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

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

## Browser support

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

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

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

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

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

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

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

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

### Web Inspector Colors

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

Colored output looks something like:

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

### stderr vs stdout

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

Example `_stdout.js_:

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

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

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

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

```bash
```bash
```
### Save debug output to a file

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

Example:

```bash
```

## Authors

- TJ Holowaychuk
- Nathan Rajlich

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1.221 decompress-zip 0.1.0

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1.223 deep-extend 0.2.11

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1.224 defaults 1.0.3

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1.226 delayed-stream 0.0.5
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1.227 delegates 0.1.0

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# delegates

Node method and accessor delegation utility.

## Installation

```sh
$ npm install delegates
```

## Example

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

delegate(proto, 'request')
  .method('acceptsLanguages')
  .method('acceptsEncodings')
  .method('acceptsCharsets')
  .method('accepts')
  .method('is')
  .access('querystring')
  .access('idempotent')
  .access('socket')
  .access('length')
  .access('query')
  .access('search')
  .access('status')
  .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 });
```
1.228 depd 1.0.1
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## 1.230 destroy 1.0.3

### 1.230.1 Available under license:

# Destroy

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

[npm-image]: https://img.shields.io/npm/v/destroy.svg?style=flat-square
[npm-url]: https://npmjs.org/package/destroy
[github-url]: https://github.com/stream-utils/destroy/tags
[travis-image]: https://img.shields.io/travis/stream-utils/destroy.svg?style=flat-square
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<signature of Ty Coon>, 1 April 1990
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**1.232 device-two-factor 2.0.1**

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**1.233 devise 3.5.2**
1.234 devise-token-authenticatable 0.4.7

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1.235 devise_invalidatable 0.0.2

1.236 dhcp 4.1.1

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1.239 disruptor-3.3.0 3.3.0

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1.256 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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## 1.257 error-ex 1.3.0

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## 1.258 erubis 2.7.0

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1.259 escape-html 1.0.2
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1.260 escape-string-regexp 1.0.3

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> Escape RegExp special characters

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

## Usage

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

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

new RegExp(escapedString);
```

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1.261 etag 1.7.0

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1.262 etcd-client 0.33

1.263 eventmachine 1.0.7

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m68k Foreign Function Interface

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

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1.282 filename-regex 2.0.0
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> Regular expression for matching file names, with or without extension.

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

## Usage

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

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

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

## Run tests

Install dev dependencies:

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

## Contributing

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

## Author

**Jon Schlinkert**

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***

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### 1.283 finalhandler 0.4.0

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### 1.284 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')
```

```bash
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][1](https://www.npmjs.org/package/array-findindex)

---

### 1.285 find-up 1.1.0

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### 1.286 first-chunk-stream 1.0.0

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### 1.287 flagged-respawn 0.3.1

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1.294 fping 2.4b2
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- Curt Micol
- Jay Adkisson
- Jordan Sissel
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If you have contributed (bug reports, feature requests, help in IRC, blog posts, code, etc) and aren't listed here, please let me know if you wish to be added!

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1.297 fs-write-stream-atomic 1.0.5

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1.299 fstream-ignore 1.0.3

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1.302 generate-function 2.0.0

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# generate-function

Module that helps you write generated functions in Node

```javascript
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)`

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

## License

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---

### 1.303 `generate-object-property 1.2.0`

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1.304 get-stdin 4.0.1
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> Easier stdin

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

## Usage

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

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

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

## API
### stdin(callback)

Get `stdin` as a string.

### stdin.buffer(callback)

Get `stdin` as a buffer.

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### 1.305 giflib 4.1.6 :ICS

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### 1.306 github 0.2.4

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1.307 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": {  
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    "url": "git://github.com/isaacs/node-glob.git"  
  },  
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  ],  
  "engines": {  
    "node": "*
  },  
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    "inherits": "2",  
    "minimatch": "^2.0.1",  
    "once": "^1.3.0",  
    "path-is-absolute": "^1.0.0"  
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    "testdir": "0.0.1"  
  }  
}
"tap": "^1.1.4",
"tick": "0.0.6"
}
,"scripts": {
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"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",
"benchean": "node benchean.js"
},
,"license": "ISC"

1.308 glob 3.2.11

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**1.311 glob-stream 3.1.18**

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**1.312 glob-watcher 0.0.6**

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

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

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

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For src/main/native/src/org/apache/hadoop/io/compress/lz4/{lz4.h,lz4.c,lz4_encoder.h,lz4hc.h,lz4hc.c,lz4hc_encoder.h},

/*
LZ4 - Fast LZ compression algorithm
Header File
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That's all there is to it!
HAPROXY's license - 2006/06/15

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

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

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

The solution was then to apply the LGPL license to the exportable include
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Willy Tarreau - w@1wt.eu

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1.339 har-validator 1.8.0
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# HAR Validator ([version][npm-version][npm-url] ![License][npm-license][license-url]

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

![Build Status][travis-image][travis-url]
## Install

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

# to use as a module
npm install --save har-validator
```

## Usage

```shell
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
```

```
```

## 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('hurray!');
});
```

### 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.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)

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) {
  console.log(e.errors)
});
```
### Validate.record(data [, callback])

Returns `true` or `false`.

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

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

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

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

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

Returns `true` or `false`.

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

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

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

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

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

Returns `true` or `false`.

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

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

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

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

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

Returns `true` or `false`.

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

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

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

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

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1.340 has-ansi 2.0.0

1.340.1 Available under license:

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

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

```sh
## Install

```

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

```

## Usage

```sh
## Usage

```

```js
var hasAnsi = require('has-ansi');
```
hasAnsi('\u001b\[4mcake\u001b\[0m');
// => true

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

## Related

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

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1.341 has-gulplog 0.1.0

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1.342 has-unicode 1.0.0

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1.343 hashie 3.4.3

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1.346 hawk 1.0.0

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1.348 hdparm 9.43

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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:

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

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

* cvt - IEEE floating point formatting routines.
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1.371 iCal4j 1.0.4 :ical4j-1.0.4

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1.381 ini 1.3.4

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{
  "author": "Isaac Z. Schlueter <i@izs.me> (http://blog.izs.me/)",
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  },
  "license": "ISC",
  "files": [
"ini.js"
]

1.382 inquirer.js 0.10.0
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<signature of Ty Coon>, 1 April 1989
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1.389 iputils 20071127
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1.390 is-absolute 0.1.7
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> Return true if a file path is absolute.

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

## Install with [npm](npmjs.org)

```bash
```

```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
```

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

## Contributing

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

## Other projects

* [is-relative](https://github.com/jonschlinkert/is-relative): Returns `true` if the path appears to be relative.
* [is-dotfile](https://github.com/regexps/is-dotfile): Return true if a file path is (or has) a dotfile.
* [is-glob](https://github.com/jonschlinkert/is-glob): Returns `true` if the given string looks like a glob pattern.
* [cwd](https://github.com/jonschlinkert/cwd): Node.js util for easily getting the current working directory of a project based on package.json or the given path.
* [git-config-path](https://github.com/jonschlinkert/git-config-path): Resolve the path to the user's global .gitconfig.

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1.392 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)

> Check if a filepath is a binary file

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***

>This file was generated by [verb-cli](https://github.com/assemble/verb-cli) on March 05, 2015._
```bash
$ 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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1.393 is-builtin-module 1.0.0

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

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

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

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

numIsFinite(4);
//=> true

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

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### 1.398 is-fullwidth-code-point 1.0.0

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## Install
```sh
$ npm install --save is-fullwidth-code-point
```

## Usage
```js
var isFullwidthCodePoint = require('is-fullwidth-code-point');
```
isFullwidthCodePoint(".codePointAt());
//=> true

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

## API

### isFullwidthCodePoint(input)

#### input

Type: `number`


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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has 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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### 1.417 jackson-core-asl 1.9.11

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### 1.419 jackson-jaxrs 1.8.3

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1.421 jackson-xc 1.8.3

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1.423 jasminewd 1.1.0

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1.424 jasminewd2 0.0.2

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1.425 jasper-compiler 5.5.23

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1.426 jasper-runtime 5.5.23

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 * </blockquote>
 *
 * 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>
 *
 * There are two typical uses of this class:
 *
 * <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>
 *
 * This class replaces the now-deprecated SAX1 { @link
 * org.xml.sax.helpers.AttributeListImpl AttributeListImpl }
 * class; in addition to supporting the updated Attributes
 * interface rather than the deprecated { @link org.xml.sax.AttributeList
 * AttributeList } interface, it also includes a much more efficient
 * implementation using a single array rather than a set of Vectors. </p>
 *
 * @since JAXB1.0
 * @since SAX 2.0
 * @author David Megginson
 * @version 2.0.1 (sax2r2)
 */

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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.
 */
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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* 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
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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;
    }
    public void setProperties(Map<String, Object> properties) {
        this.properties = properties;
    }
    public Map<String, Object> getProperties() {
        return properties;
    }
    public URI getUri() {
        return uri;
    }
    public void setUri(URI uri) {
        this.uri = uri;
    }
    public StringgetMethod() {
        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 metadata;
    }
    public void setMetadata(MultivaluedMap<String, Object> metadata) {
        this.metadata = metadata;
    }
    public ClientRequestAdapter getAdapter() {
        return adapter;
    }
    public void setAdapter(ClientRequestAdapter adapter) {
        this.adapter = adapter;
    }
}
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<? extends T> endpointType) throws IllegalArgumentException, UnsupportedOperationException {
        throw new UnsupportedOperationException();
    }
}

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1.467 jline 0.9.94

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1.468 JLine - Java console input library 0.9.94

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1.473 JSch 0.1.42

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1.474 json 20141113

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1.475 json 1.8.3

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

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

/**
 * Get the next value. The value can be wrapped in quotes. The value can be empty.
 * @param x A JSONTokener of the source text.
 * @return The value string, or null if empty.
 * @throws JSONException if the quoted string is badly formed.
 */
private static String getValue(JSONTokener x) throws JSONException {
    char c;
    char q;
    StringBuffer sb;
    do {
c = x.next();
} while (c == ' ' || c == '\t');
switch (c) {
case 0:
    return null;
case '"':
case '\'':
    q = c;
sb = new StringBuffer();
    for (; ;) {
        c = x.next();
        if (c == q) {
            break;
        }
        if (c == 0 || c == '
' || 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 == '
' || c == '' || c == 0) {
        return ja;
    } else {
        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();
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('
');
    return sb.toString();
}

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

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

/**
 * Produce a JSONArray of JSONObjects from a comma delimited text string
 * using a supplied JSONArray as the source of element names.
 * @param names A JSONArray of strings.
 * @param string The comma delimited text.
 * @return A JSONArray of JSONObjects.
 * @throws JSONException
 */

public static JSONArray toJSONArray(JSONArray names, String string) throws JSONException {
    return toJSONArray(names, new JSONTokener(string));
}

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

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

1.478 json-stringify-safe 5.0.1

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1.480 json4s-ast_2.10 3.2.10

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1.483 jsonify 0.0.0

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```json
{
    "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"
    }
}
```
1.484 jsonpointer 1.1.0

1.484.1 Available under license:

# JSON Pointer for nodejs

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

## Usage

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

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

## Testing

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

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

## Author

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1.489 jul-to-slf4j-1.7.5.jar 1.7.5

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1.492 junk 1.0.2

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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 don't_track_primary, nopreempt,
    preempt_delay, and misc_dynamic.

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

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

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

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1.552 map-obj 1.0.1
1.552.1 Available under license:

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

> Map object keys and values into a new object

```js
var mapObj = require('map-obj');

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

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1.553 MaxMind GeoIP API 1.2.14

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1.554 md5-hex 1.1.0
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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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1.595 mono-logger 1.1.0

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1.597 morphia r1.1.0

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1.602 multipart-post 1.2.0

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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
```
## Duplex streams

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

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

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

In this example the flow of data is:

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

## Error handling

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

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

stream.on('error', function(err){
  // called three times
});

a.emit('error', new Error);
b.emit('error', new Error);
c.emit('error', new Error);
```

## API

### pipe(stream, ...)

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

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

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

```bash
$ npm install multipipe
```

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1.605 mute-stream 0.0.5

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1.631 NodeJS 5.7.0

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

=======================================================================

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Ty Coon, President of Vice

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1.637 number-is-nan 1.0.0

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

> ES6 `Number.isNaN()`

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

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

## Usage

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

numberIsNan(NaN);
//=> true

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

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1.652 opentsdb 2.1.0 :1

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1.655 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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1.656 options 0.0.6

1.657 orchestrator 0.3.7

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*/

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

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

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

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

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

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

### 1.662 os-homedir 1.0.1

#### 1.662.1 Available under license:

- # os-homedir ![Build Status](https://travis-ci.org/sindresorhus/os-homedir.svg?branch=master)
- > io.js 2.3.0 ['os.homedir()'](https://iojs.org/api/os.html#os_homedir) ponyfill
- > Ponyfill: A polyfill that doesn't overwrite the native method
## Install

```shell
$ npm install --save os-homedir
```

## Usage

```javascript
var osHomedir = require('os-homedir');

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

## Related

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

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1.663 os-name v1.0.3

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1.664 os-tmpdir 1.0.1

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> Node.js `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/m3/5574nnhn0yj488ccryqr7tc8000gn/T

## API

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

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1.667 osgi-resource-locator 1.0.1
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1.672 parquet-protobuf 1.6.0rc4

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> Node.js 0.12 ['path.isAbsolute()'] ponyfill

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

```bash
$ 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).

```js
### 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

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```js
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// Linux
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//=> 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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PCRE is a library of functions to support regular expressions whose syntax and semantics are as close as possible to those of the Perl 5 language.

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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.

THE BASIC LIBRARY FUNCTIONS

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THE C++ WRAPPER FUNCTIONS

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1.682 Perl Class Singleton 1.4

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1.688 pinkie-promise 2.0.0

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# pinkie-promise ![Build Status](https://travis-ci.org/floatdrop/pinkie-promise.svg?branch=master) ![ES2015 Promise](https://people.mozilla.org/~jorendorff/es6-draft.html#sec-promise-objects) ponyfill

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

```bash
$ npm install --save pinkie-promise
```

## Usage

```javascript
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"

1.692 pkgr 1.4.4

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1.696 prawn 2.1.0
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1.697 prawn-table 0.2.2

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1.700 pretty-hrtime 1.0.1

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1.701 process-nextick-args 1.0.6

1.701.1 Available under license:

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

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


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

nextTick(function (a, b, c) {
    console.log(a, b, c);
});
```

1.702 process-nextick-args 1.0.2

1.702.1 Available under license:

```
{
    "name": "process-nextick-args",
    "version": "1.0.2",
    "description": "process.nextTick but always with args",
    "main": "index.js",
    "scripts": {
        "test": "node test.js"
    },
    "repository": {
        "type": "git",
        "url": "https://github.com/calvinmetcalf/process-nextick-args.git"
    },
    "author": "",
    "license": "MIT",
    "bugs": {
        "url": "https://github.com/calvinmetcalf/process-nextick-args/issues"
    },
    "homepage": "https://github.com/calvinmetcalf/process-nextick-args",
    "devDependencies": {
        "tap": "~0.2.6"
    }
}
```

1.703 progress 1.1.8

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1.705 proto-list 1.2.4
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1.706 protobuf 2.5.0

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1.707 protobuf 2.6.1

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* HPUX support.

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* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
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* Added atomicops for Solaris

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1.713 py4j 0.8.2.1

1.714 pyrolite 2.0.1

1.715 python 2.7

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================================

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1.716 python-ambariclient 0.5.9

1.717 python-libs 2.6.6 :29.el6_3.3.x86_64
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1.726 rack 1.5.5

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1.730 rack-reverse-proxy 0.11.0

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1.732 rack-test 0.6.2

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1.734 rails_12factor 0.0.3

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1.741 range-parser 1.0.2
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1.742 rb-readline 0.5.3

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1.743 rc 1.1.5

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    },
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    },
    "files": [
        "lib/read.js"
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1.745 read-all-stream 3.0.1

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1.755 redeyed 0.4.4

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1.765 regex-cache 0.4.2

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1.767 repeat-element 1.1.2

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1.809 scala-library 2.10.4

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1.811 scalap 2.10.0

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Subject: amos

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> Julian and Todd,
I'm writing to see if we can get an exception to the Blitz license so that it can be released with a BSD license within SciPy. Currently, the Fedora project is classifying the entire SciPy package as GPLed because one package, scipy.weave, uses blitz. (the rest of the code is all BSD). We were about to launch into the re-factoring step to make the blitz portion optional, when it occurred to us to just ask you guys first. :-)

Blitz is included in the scipy.weave package which allows you to inline C/C++ within Python. Users have the option of converting NumPy arrays to blitz arrays for use in C++. There is also a function (weave.blitz) that will automatically convert NumPy expressions in Python to Blitz expressions in C++. Often this shows notable speed improvements. Our re-factoring step will require us to split the blitz code into the blitz and non-blitz portions. This is a bit of a pain, and ends up with more installation issues than if we didn't do it.

Thanks for your consideration,

--

Jarrod Millman
Computational Infrastructure for Research Labs
10 Giannini Hall, UC Berkeley
phone: 510.643.4014
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1.828 signal-exit 2.1.2

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1.829 sinatra 1.4.7

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1.830 sinatra 1.4.6

1.831 slf4j-api 1.6.2

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1.836 sntp 1.0.9

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1.843 Spark 1.6.0
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# Python was created in the early 1990s by Guido van Rossum at Stichting
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# 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
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# Corporation, see http://www.zope.com). In 2001, the Python Software
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#
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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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# 2.4.4 2.4.3 2006 PSF yes
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## Credit

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

Other contributors include:

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

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

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# 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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The inverse error function implementation in the Erf class is based on CUDA code developed by Mike Giles, Oxford-Man Institute of Quantitative Finance, and published in GPU Computing Gems, volume 2, 2010.

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Other contributors include:

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

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

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## Credit

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

Other contributors include:

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

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

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.salaranta@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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The inverse error function implementation in the Erf class is based on CUDA code developed by Mike Giles, Oxford-Man Institute of Quantitative Finance, and published in GPU Computing Gems, volume 2, 2010.
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The BracketFinder (package org.apache.commons.math3.optimization.univariate) and PowellOptimizer (package org.apache.commons.math3.optimization.general) classes are based on the Python code in module "optimize.py" (version 0.5) developed by Travis E. Oliphant for the SciPy library (http://www.scipy.org/)

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acquire_rat_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
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 Py4J (python/lib/py4j-0.8.2.1-src.zip)
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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
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1.845 Spark 1.2.1

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========================================================================

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# Python was created in the early 1990s by Guido van Rossum at Stichting
# Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
# as a successor of a language called ABC. Guido remains Python's
# principal author, although it includes many contributions from others.
#
# In 1995, Guido continued his work on Python at the Corporation for
# National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
# in Reston, Virginia where he released several versions of the
# software.
#
# In May 2000, Guido and the Python core development team moved to
# BeOpen.com to form the BeOpen PythonLabs team. In October of the same
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# Corporation, see http://www.zope.com). In 2001, the Python Software
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#
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# releases have also been GPL-compatible; the table below summarizes
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#
# Release Derived Year Owner GPL-compatible? (1)
#
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This library contains efficient implementation of LZF compression format,
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Library has been written by Tatu Saloranta (tatu.saloranta@iki.fi).
It was started at Ning, inc., as an official Open Source process used by
platform backend, but after initial versions has been developed outside of
Ning by supporting community.

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

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

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# Jackson JSON processor

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

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1.850 spdx-exceptions 1.0.2

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1.851 spin.js 2.0.1

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1.852 sprintf-js 1.0.3
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1.853 sprockets 2.12.4
1.854 sprockets-rails 2.3.3

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1.855 sqlite 3.6.20

1.856 sshkey 1.8.0

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1.857 sshpass 1.05 :r0.0.0

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  o

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written by James Hacker.

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

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1.861 strace 4.8 :r0

1.861.1 Available under license :

This is the Debian packaged version of strace. For a complete list of changes from the upstream version please see the changelog.

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1.862 stream 2.7.0

1.862.1 Available under license:

/*
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 * you may not use this file except in compliance with the License.
 * You may obtain a copy of the License at
 *
 * http://www.apache.org/licenses/LICENSE-2.0
 */
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
 * Brief HyperLogLog++ Overview
 * Uses 64 bit hashing instead of 32
 * Has two representation modes: sparse and normal
 */
*/
* 'normal' is approximately the same as regular hyperloglog (still uses 64 bits)
* 'sparse' handles lower cardinality values with a highly accurate but poorly scaling
* strategy and leverages data compression to compete with 'normal' for as long as possible
* (sparse has the advantage on accuracy per unit of memory at low cardinality but quickly falls behind).
*/
public class HyperLogLogPlus implements ICardinality, Serializable {

private enum Format {
    SPARSE, NORMAL
}

/**
* 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-3MjGjezWIdpyMwEYAAGE/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
    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
    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, 37.6968, 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
}
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272106.4804, 273722.4456, 275337.794, 276945.7038, 278592.9154, 280204.3726, 281841.1606, 283489.171,
285130.1716, 286735.3362, 288364.7164, 289961.1814, 291595.5524, 293285.683, 294899.6668, 296499.3434,
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311153.2862, 312782.8546, 314421.2008, 316033.2438, 317692.9636, 319305.2648, 320948.7406, 322566.3364,
324228.4224, 325847.1542,},
// precision 17
{94542, 96125.811, 97728.019, 99348.558, 100987.9705, 102646.7565, 104324.5125, 106021.7435,
107736.7865, 109469.272, 111223.9465, 112995.219, 114787.432, 116593.152, 118422.71, 120267.2345,
122134.6765, 124020.937, 125927.2705, 127851.255, 129788.9485, 131751.016, 133726.8225, 135722.592,
137736.789, 139770.568, 141821.518, 143891.343, 145982.1415, 148095.387, 150207.526, 152355.649,
154515.6415, 156696.05, 158887.7575, 161098.159, 163329.852, 165569.053, 167837.4005, 170121.6165,
172420.4595, 174732.6265, 177062.77, 179412.502, 181774.035, 184151.939, 186551.6895, 188965.691,
191402.8095, 193857.949, 196305.0775, 198774.6715, 201271.2585, 203764.78, 206299.3695, 208818.1365,
211373.115, 213946.7465, 216532.076, 219105.541, 221714.5375, 224337.5135, 226977.5125, 229613.0655,
232270.2685, 234952.2065, 237645.3555, 240331.1925, 243034.517, 245756.0725, 248517.6865, 251232.737,
254011.3955, 256785.995, 259556.44, 262368.335, 265156.911, 267965.266, 270785.583, 273616.0495,
276487.4835, 279346.639, 282202.509, 285074.3885, 287942.2855, 290856.018, 293774.0345, 296678.5145,
299603.6355, 302552.6575, 305492.9785, 308466.8605, 311392.581, 314347.538, 317319.4295, 320285.9785,
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347464.1545, 350507.28, 353619.2345, 356631.2005, 359685.203, 362776.7845, 365886.488, 368958.2255,
372060.6825, 375165.4335, 378237.935, 381328.311, 384430.5225, 387576.425, 390683.242, 393839.648,
396977.8425, 400101.9805, 403271.296, 406409.8425, 409529.5485, 412678.7, 415847.423, 419020.8035,
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473164.681, 476347.6345, 479496.173, 482813.1645, 486025.6995, 489249.4885, 492460.1945, 495675.8805,
498908.0075, 502131.802, 505374.3855, 508550.9915, 511806.7305, 515026.776, 518217.0005, 521523.9855,
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550666.3745, 553975.3475, 557150.7185, 560399.6165, 563662.697, 566916.7395, 570146.1215, 573447.425,
576689.6245, 579874.5745, 583202.337, 586503.0255, 589715.635, 592910.161, 596214.3885, 599488.035,
602740.92, 605983.0685, 609248.67, 612491.3605, 615787.912, 619107.5245, 622307.9555, 625577.333,
628840.4385, 632085.2155, 635317.6135, 638691.7195, 641887.467, 645139.9405, 648441.546, 651666.252,
654941.845,},
// precision 18
{189084, 192250.913, 195456.774, 198696.946, 201977.762, 205294.444, 208651.754, 212042.099,
215472.269, 218941.91, 222443.912, 225996.845, 229568.199, 233193.568, 236844.457, 240543.233, 244279.475,
248044.27, 251854.588, 255693.2, 259583.619, 263494.621, 267445.385, 271454.061, 275468.769, 279549.456,
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358819.432, 363574.626, 368296.587, 373118.482, 377914.93, 382782.301, 387680.669, 392601.981, 397544.323,
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443441.254, 448692.421, 453937.533, 459239.049, 464529.569, 469910.083, 475274.03, 480684.473, 486070.26,
491515.237, 496995.651, 502476.617, 507973.609, 513497.19, 519083.233, 524726.509, 530305.505, 535945.728,
541584.404, 547274.055, 552967.236, 558667.862, 564360.216, 570128.148, 575965.08, 581701.952, 587532.523,
593361.144, 599246.128, 605033.418, 610958.779, 616837.117, 622772.818, 628672.04, 634675.369, 640574.831,
646585.739, 652574.547, 658611.217, 664642.684, 670713.914, 676737.681, 682797.313, 688837.897,
694917.874, 701009.882, 707173.648, 713257.254, 719415.392, 725636.761, 731710.697, 737906.209,
744103.074, 750313.39, 756504.185, 762712.579, 768876.985, 775167.859, 781359, 787615.959, 793863.597,
800245.477, 806464.582, 812785.294, 819005.925, 825403.057, 831676.197, 837936.284, 844266.968,

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959209.264, 965590.224, 972077.284, 978501.961, 984953.19, 991413.271, 997817.479, 1004222.658,
1010725.676, 1017177.138, 1023612.529, 1030098.236, 1036493.719, 1043112.207, 1049537.036, 1056008.096,
1062476.184, 1068942.337, 1075524.95, 1081932.864, 1088426.025, 1094776.005, 1101327.448, 1107901.673,
1114423.639, 1120884.602, 1127324.923, 1133794.24, 1140328.886, 1146849.376, 1153346.682, 1159836.502,
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1218674.042, 1225121.683, 1231551.101, 1238126.379, 1244673.795, 1251260.649, 1257697.86, 1264320.983,
1270736.319, 1277274.694, 1283804.95, 1290211.514, 1296858.568, 1303455.691,}
};
static final double[][] biasData = {
// precision 4
{10, 9.717, 9.207, 8.7896, 8.2882, 7.8204, 7.3772, 6.9342, 6.5202, 6.161, 5.7722, 5.4636, 5.0396, 4.6766,
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, -0.0701999999999998, -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,},
// precision 5
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,
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,
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0.331000000000003, 0.591399999999993, 0.601200000000006, 0.701599999999999, 0.558199999999999,
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1.60659999999996, 2.16700000000003, 0.77940000000001, 2.37900000000002, 2.06700000000001,
1.46000000000004, 2.91160000000002, 1.69200000000001, 0.954600000000028, 2.49300000000005, 2.2722,
1.33500000000004, 2.44899999999997, 1.20140000000004, 2.09739999999997, 0.97040000000004, 0.80979999999996,
1.65279999999996, 2.59799999999997, 0.95799999999997, 2.06799999999998, 2.32780000000002,
2.40159999999999, 1.96320000000003, 1.69200000000001, 0.954600000000028, 2.49300000000005, 2.2722,
1.33500000000004, 2.44899999999997, 1.20140000000004, 2.09739999999997, 0.97040000000004, 0.80979999999996,
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1.33500000000004, 2.44899999999997, 1.20140000000004, 2.09739999999997, 0.97040000000004, 0.80979999999996,
1.65279999999996, 2.59799999999997, 0.95799999999997, 2.06799999999998, 2.32780000000002,
2.40159999999999, 1.96320000000003, 1.69200000000001, 0.954600000000028, 2.49300000000005, 2.2722,
1.33500000000004, 2.44899999999997, 1.20140000000004, 2.09739999999997, 0.97040000000004, 0.80979999999996,
1.65279999999996, 2.59799999999997, 0.95799999999997, 2.06799999999998, 2.32780000000002,
2.40159999999999, 1.96320000000003, 1.69200000000001, 0.954600000000028, 2.49300000000005, 2.2722,
1.33500000000004, 2.44899999999997, 1.20140000000004, 2.09739999999997, 0.97040000000004, 0.80979999999996,
1.65279999999996, 2.59799999999997, 0.95799999999997, 2.06799999999998, 2.32780000000002,
2.40159999999999, 1.96320000000003, 1.69200000000001, 0.954600000000028, 2.49300000000005, 2.2722,
1.33500000000004, 2.44899999999997, 1.20140000000004, 2.09739999999997, 0.97040000000004, 0.80979999999996,
1.65279999999996, 2.59799999999997, 0.95799999999997, 2.06799999999998, 2.32780000000002,
2.40159999999999, 1.96320000000003, 1.69200000000001, 0.954600000000028, 2.49300000000005, 2.2722,

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

* &lt;code&gt;sp&lt;/code&gt; define the precision of the Normal and Sparse set representations for the data structure. &lt;code&gt;p&lt;/code&gt; must be a value between 4 and &lt;code&gt;sp&lt;/code&gt; and &lt;code&gt;sp&lt;/code&gt; 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&lt;byte[]&gt; 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 &lt; 4 || (p &gt; sp &amp;&amp; sp != 0)) {
        throw new IllegalArgumentException("p must be between 4 and sp (inclusive)");
    }
    if (sp &gt; 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))
* 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) {
int idx = (int) (x >>> (64 - sp));

if (p < sp) {
    zeroTest = idx << ((32 - sp) + p);
}
if (zeroTest == 0) {
    // See offer
    final int runLength = Long.numberOfLeadingZeros((x << this.p) | (1 << (this.p - 1))) + 1;
    // Invert run length by xoring it with a bunch of 1s
    int invrl = runLength ^ 63;
    return (((idx << 6)       // push the idx left 6 times to make room to put in the run length
             | invrl)    // then merge in the run length
             << 1)       // move left again to make room for the flag bit
             | 1;        // merge in the flag bit (set to one because we needed the run length)
} else {
    // Just push left once. A zero will appear by default and that’s the flag we want.
    return idx << 1;
}

/**
 * More of less the opposite of the encoding function but just for getting out run lengths.
 *
 * @param k encoded int
 * @return run length
 */
private int decodeRunLength(int k) {
    if ((k & 1) == 1) // checking the flag bit
    {
        // Smoosh the flag bit; it has served its purpose
        // Then & with 63 to delete everything but the run length
        // Then invert again to undo the inversion from before
        return ((k >>> 1) & 63) ^ 63;
    } else {
        // In one of the encode diagrams there is a substring of bits
        // labeled 'has 1'. This is where we find that one!
        // First push left to clear out the empty space (that is 31-sp places)
        // Then push left some more cause bits in precision p don’t count for run length
        // That is, push left p times.
        // Lastly we add one because we love adding one to run lengths. Its our JAM
        return Integer.numberOfLeadingZeros(k << p + (31 - sp)) + 1;
    }
}
/**
 * returns the hash portion of the of the integer value
 *
 * @param k - the encoded integer to extract the hash from
 * @return the encoded hash value
 */
private int getEncodedHash(int k) {
    return (k << p + (31 - sp));
}

/**
 * Get the idx' from an encoding
 *
 * @param k encoded data
 * @return idx'
 */
private static int getSparseIndex(int k) {
    if ((k & 1) == 1) {
        return k >>> 7;
    } else {
        return k >>> 1;
    }
}

/**
 * Gets the idx from an encoding (note this is idx and not idx prime)
 *
 * @param k encoded data
 * @param p 'normal' precision
 * @return
 */
private int getIndex(int k, int p) {
    k = getSparseIndex(k);
    return (k >>> (sp - p));
}

/**
 * Gather the cardinality estimate from this estimator.
 * <p/>
 * Has two procedures based on current mode. 'Normal' mode works similar to HLL but has some
 * new bias corrections. 'Sparse' mode is linear counting.
 * 
 * @return
 */
@Override
public long cardinality() {
    switch (format) {

case NORMAL:
    double registerSum = 0;
    int count = registerSet.count;
    double zeros = 0;
    for (int j = 0; j < registerSet.count; j++) {
        int val = registerSet.get(j);
        registerSum += 1.0 / (1 << val);
        if (val == 0) {
            zeros++;
        }
    }
    double estimate = alphaMM * (1 / registerSum);
    double estimatePrime = estimate;
    if (estimate <= (5 * m)) {
        estimatePrime = estimate - getEstimateBias(estimate, p);
    }
    double H;
    if (zeros > 0) {
        H = HyperLogLog.linearCounting(count, zeros);
    } else {
        H = estimatePrime;
    }
    // when p is large the threshold is just 5*m
    if ((p <= 18 && H < thresholdData[p - 4]) || (p > 18 && estimate <= 5 * m)) {
        return Math.round(H);
    } else {
        return Math.round(estimatePrime);
    }
    case SPARSE:
        mergeTempList();
        return Math.round(HyperLogLog.linearCounting(sm, (sm - sparseSet.length)));
    }
    return 0;
}

private static double getEstimateBias(double estimate, int p) {
    // get nearest neighbors for this estimate and precision
    // above p = 18 there is no bias correction
    if (p > 18) {
        return 0;
    }
    double[] estimateVector = rawEstimateData[p - 4];
    SortedMap<Double, Integer> estimateDistances = calcDistances(estimate, estimateVector);
    int[] nearestNeighbors = getNearestNeighbors(estimateDistances);
    return getBias(nearestNeighbors, p);
}
private static double getBias(int[] nearestNeighbors, int p) {
    double[] biasVector = biasData[p - 4];
    double biasTotal = 0.0d;
    for (int nearestNeighbor : nearestNeighbors) {
        biasTotal += biasVector[nearestNeighbor];
    }
    return biasTotal / (nearestNeighbors.length);
}

private static int[] getNearestNeighbors(SortedMap<Double, Integer> distanceMap) {
    int[] nearest = new int[6];
    int i = 0;
    for (Integer index : distanceMap.values()) {
        nearest[i++] = index;
        if (i >= 6) {
            break;
        }
    }
    return nearest;
}

private static SortedMap<Double, Integer> calcDistances(double estimate, double[] estimateVector) {
    SortedMap<Double, Integer> distances = new TreeMap<Double, Integer>();
    int index = 0;
    for (double anEstimateVector : estimateVector) {
        distances.put(Math.pow(estimate - anEstimateVector, 2), index++);
    }
    return distances;
}

/**
 * Batch merges the sparse set with the temporary list. Usually called when the temporary
 * list fills up, but may also be needed when suddenly converting to normal or producing a
 * cardinality estimate.
 * <p/>
 * It works very similarly to the merge part of merge sort with some key differences:
 * We don't care about the kind of order the idxs appear in, only that they are in SOME order.
 * This is because we only need to be sure that we detect when they are the same. So if idx: '001' appears
 * first and idx: '002' appears last, that is fine as long as that behavior is the same for both lists.
 * <p/>
 * We do not allow duplicate entries (we are making a set after all), and collisions are resolved by run
 * length. However, most of the time the run length will be the same if two idx' are the same. Only in the
 * 1 in ~128 chance case of 'all 0s?' will they differ. Because the rest of the encoding is the same we can
 * do comparisons without extracting the run length and because of our earlier inversion trick, the highest
 * run length duplicates will appear first. So we take those and ignore any that follow with the same idx'.
 *<p/>
 * @param set sparse set
 * @param tmp list to be merged
* @return the new sparse set
*/

private static int[] merge(int[] set, int[] tmp) {
    List<Integer> newSet = new ArrayList<Integer>();
    // iterate over each set and merge the result values
    int setLength = (set == null ? 0 : set.length);
    int seti = 0;
    int tmpi = 0;
    while (seti < setLength || tmpi < tmp.length) {
        if (seti >= setLength) {
            int tmpVal = tmp[tmpi];
            newSet.add(tmpVal);
            tmpi++;
            tmpi = consumeDuplicates(tmp, getSparseIndex(tmpVal), tmpi);
        } else if (tmpi >= tmp.length) {
            newSet.add(set[seti++]);
        } else {
            int setVal = set[seti];
            int tmpVal = tmp[tmpi];
            if (getSparseIndex(setVal) == getSparseIndex(tmpVal)) {
                newSet.add(Math.min(setVal, tmpVal));
                tmpi++;
                tmpi = consumeDuplicates(tmp, getSparseIndex(tmpVal), tmpi);
            } else if (getSparseIndex(setVal) < getSparseIndex(tmpVal)) {
                newSet.add(setVal);
                seti++;
            } else {
                newSet.add(tmpVal);
                tmpi++;
                tmpi = consumeDuplicates(tmp, getSparseIndex(tmpVal), tmpi);
            }
        }
    }
    return toIntArray(newSet);
}

private static int[] toIntArray(List<Integer> list) {
    int[] ret = new int[list.size()];
    for (int i = 0; i < ret.length; i++) {
        ret[i] = list.get(i);
    }
    return ret;
}

/**
* Eats up the inferior duplicates from the temp list
* @param tmp    tmp list
* @param tmpIdx the idx' we want to consume
* @param tmpi   the current tmp list index
* @return the new tmp list index
*/
private static int consumeDuplicates(int[] tmp, int tmpIdx, int tmpi) {
    while (tmpi < tmp.length) {
        int nextTmp = tmp[tmpi];
        int nextTmpIdx = getSparseIndex(nextTmp);
        if (tmpIdx != nextTmpIdx) {
            return tmpi;
        }
        tmpi++;
    }
    return tmpi;
}

/**
 * Merge this HLL++ instance with another! The power of friends!
 * This works very similarly to the merge with temp list function.
 * 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;
        break;
    }
    return baos.toByteArray();
}
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);
            return leftIndex - rightIndex;
        }
    });
    return sortedList.toArray(new Integer[sortedList.size()]);
}
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.
 * <p/>
 * @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);
    return;
}
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 sane.size;
    }
}
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;
```java
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;
    }
}
package com.clearspring.analytics.stream;

import java.util.List;

public interface ISampleSet<T> {
    long put(T element);
    long put(T element, int incrementCount);
    T removeRandom();
    T peek();
    List<T> peek(int k);
    int size();
    long count();
}

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 */
package com.clearspring.analytics.stream;

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

public class SampleSet<T> implements ISampleSet<T> {

    private Map<T, Node<T>> sampleMap;
    private int size;
    private long count;
    private Random random;

    private Node<T> head;

    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);
            break;
        }
    }
    return head.element;
}
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;
}

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;
        }
    }

    public void add(T value) {
        ListNode2<T> node = new ListNode2<T>(value);
        if (size++ == 0) {
            tail = node;
            head.next = node;
        } else {
            node.prev = head;
            head.next = node;
        }
    }

}
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;
    }
}

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;
    }
}
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;
}
# stream-consume

A node module ensures a Readable stream continues flowing if it's not piped to another destination.

```js
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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1.864 stream-counter 0.2.0

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1.865 string-length 1.0.1

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*/

1.872 strip-ansi 3.0.0

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

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

stripAnsi('[4mcake[0m');
//=> 'cake'

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

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1.879 supports-color 2.0.0

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

> Detect whether a terminal supports color

```js

## Install

```

```js

```

```js

## Usage

```
var supportsColor = require('supports-color');

if (supportsColor) {
  console.log('Terminal supports color');
}
```

It obeys the `--color` and `--no-color` CLI flags.

For situations where using `--color` is not possible, add an environment variable `FORCE_COLOR` with any value to force color. Trumps `--no-color`.

## Related

- [supports-color-cli](https://github.com/chalk/supports-color-cli) - CLI for this module
- [chalk](https://github.com/chalk/chalk) - Terminal string styling done right

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 * @(#) $Header: /tcpdump/master/tcpdump/lbl/os-osf4.h,v 1.1 2002-12-11 05:03:13 guy Exp $ (LBL)
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#
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# exits with 0. Otherwise, it exits with 1.
#
# The plan is that this can be called by configure scripts if you
# don't specify an explicit build system type.
* Angelos D. Keromytis (kermit@csd.uch.gr) and
* Niels Provos (provos@physnet.uni-hamburg.de).
*
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1.888 thin 1.6.4
1.889 thin 1.6.1

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```ruby
#!/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>.
/**
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 * /
Thin
=====

Tiny, fast & funny HTTP server

Thin is a Ruby web server that glues together 3 of the best Ruby libraries in web history:

* The Mongrel parser: the root of Mongrel speed and security
* Event Machine: a network I/O library with extremely high scalability, performance and stability
* Rack: a minimal interface between webservers and Ruby frameworks

Which makes it, with all humility, the most secure, stable, fast and extensible Ruby web server bundled in an easy to use gem for your own pleasure.

Site: http://code.macournoyer.com/thin/
Group: http://groups.google.com/group/thin-ruby/topics
Bugs: http://github.com/macournoyer/thin/issues
Code: http://github.com/macournoyer/thin
IRC: #thin on freenode

Installation
-------------
For the latest stable version:

'gem install thin'

Or from source:

```
... 
git clone git://github.com/macournoyer/thin.git
```
Usage
======
A +thin+ script offers an easy way to start your Rack application:

```ruby
cd to/your/app
thin start
```

When using with Rails and Bundler, make sure to add ‘gem ‘thin’’ to your Gemfile.

See example directory for samples and run ‘thin -h’ for usage.

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1.91 thread_safe 0.3.5

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1.892 throttleit 0.0.2

1.893 through 2.3.8

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1.900 tmp 0.0.24

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1.955 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

Passes the quite extensive Autobahn test suite. See http://einaros.github.com/ws for the full reports.

Comes with a command line utility, `wscat`, which can either act as a server (--listen), or client (--connect); Use it to debug simple websocket services.

## Protocol support ##

* **Hixie draft 76** (Old and deprecated, but still in use by Safari and Opera. Added to ws version 0.4.2, but server only. Can be disabled by setting the `disableHixie` option to true.)
* **HyBi drafts 07-12** (Use the option `protocolVersion: 8`, or argument `-p 8` for wscat)
* **HyBi drafts 13-17** (Current default, alternatively option `protocolVersion: 13`, or argument `-p 13` for wscat)

_See the echo.websocket.org example below for how to use the `protocolVersion` option._

## Usage ##

### Installing ###

`npm install ws`

### Sending and receiving text data ###

```js
var WebSocket = require('ws');
var ws = new WebSocket('ws://www.host.com/path');
ws.on('open', function() {
  ws.send('something');
});
ws.on('message', function(data, flags) {
  // flags.binary will be set if a binary data is received
  // flagsmasked 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
```
```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
```
```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
```
```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');
}
```javascript
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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1.956 xdg-basedir 1.0.1

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1.957 xml2js 0.4.4
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1.958 xmlbuilder 0.4.2
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# xmlbuilder-js

An XMLBuilder for [node.js](http://nodejs.org/) similar to 
[java-xmlbuilder](http://code.google.com/p/java-xmlbuilder/).


```sh
```

```sh
```
```sh
```
### Important:

I had to break compatibility while adding multiple instances in 0.1.3. As a result, version from v0.1.3 are **not** compatible with previous versions.

### Usage:

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

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## 1.959 xmlenc 0.52

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1.960 xmlhttprequest 1.4.2

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1.961 xtend 4.0.0

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1.964 yajl-ruby 1.2.0
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The "source code" for a work means the preferred form of the work
for making modifications to it. "Object code" means any non-source
form of a work.

A "Standard Interface" means an interface that either is an official
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### 3.1 haproxy 1.5.4 :2.el6_7.1

#### 3.1.1 Available under license:

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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
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History
------

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===========================

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

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

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Julian Seward, jseward@bzip.org
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5.6 cloudpickle 0.1.1 :1
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5.8 Cython 0.23.5 :1

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5.10 dill 0.2.5

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5.11 docker-engine 1.12.2 :1.el7.centos

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Gocheck - A rich testing framework for Go

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Extensions for Protocol Buffers to create more go like structures.

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http://github.com/gogo/protobuf/gogoproto

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5.18 ipykernel 4.3.1 :1
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plt.plot([1,2,3])

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

%matplotlib qt

plt.plot([1,2,3])
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5.23 jsonschema 2.5.1

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5.24 jupyter_client 4.3.0 :1

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**5.27 Mako 1.0.4 :1**

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5.30 matplotlib 1.5.1 :1
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### MATPLOTLIBRC FORMAT

# This is a sample matplotlib configuration file - you can find a copy
# of it on your system in
# site-packages/matplotlib/mpl-data/matplotlibrc. If you edit it
# there, please note that it will be overwritten in your next install.
# If you want to keep a permanent local copy that will not be
# overwritten, place it in the following location:

# unix/linux:
#   $HOME/.config/matplotlib/matplotlibrc or
#   $XDG_CONFIG_HOME/matplotlib/matplotlibrc (if $XDG_CONFIG_HOME is set)
# other platforms:
#   $HOME/.matplotlib/matplotlibrc
#
# See http://matplotlib.org/users/customizing.html#the-matplotlibrc-file for
# more details on the paths which are checked for the configuration file.
#
# This file is best viewed in an editor which supports python mode
# syntax highlighting. Blank lines, or lines starting with a comment
# symbol, are ignored, as are trailing comments. Other lines must
# have the format
#   key : val # optional comment
#
# Colors: for the color values below, you can either use - a
# matplotlib color string, such as r, k, or b - an rgb tuple, such as
# (1.0, 0.5, 0.0) - a hex string, such as ff00ff or #ff00ff - a scalar
# grayscale intensity such as 0.75 - a legal html color name, e.g., red,
# blue, darkslategray

#### CONFIGURATION BEGINS HERE

# The default backend; one of GTK GTKAgg GTKCairo GTK3Agg GTK3Cairo
# CocoaAgg MacOSX Qt4Agg Qt5Agg TkAgg WX WXAgg Agg Cairo GDK PS PDF SVG
# Template.
# You can also deploy your own backend outside of matplotlib by
# referring to the module name (which must be in the PYTHONPATH) as
# 'module://my_backend'.
backend : agg

# If you are using the Qt4Agg backend, you can choose here
# to use the PyQt4 bindings or the newer PySide bindings to
# the underlying Qt4 toolkit.
backend.qt4 : PyQt4 # PyQt4 | PySide
# Note that this can be overridden by the environment variable
# QT_API used by Enthought Tool Suite (ETS); valid values are
# "pyqt" and "pyside". The "pyqt" setting has the side effect of
# forcing the use of Version 2 API for QString and QVariant.

# The port to use for the web server in the WebAgg backend.
# webagg.port : 8888

# If webagg.port is unavailable, a number of other random ports will
# be tried until one that is available is found.
# webagg.port_retries : 50

# When True, open the webbrowser to the plot that is shown
# webagg.open_in_browser : True

# When True, the figures rendered in the nbagg backend are created with
# a transparent background.
# nbagg.transparent : True

# if you are running pyplot inside a GUI and your backend choice
# conflicts, we will automatically try to find a compatible one for
# you if backend_fallback is True
#backend_fallback: True

#interactive : False
#toolbar : toolbar2 # None | toolbar2 ("classic" is deprecated)
#timezone : UTC # a pytz timezone string, e.g., US/Central or Europe/Paris

# Where your matplotlib data lives if you installed to a non-default
# location. This is where the matplotlib fonts, bitmaps, etc reside
#datapath : /home/jdhunter/mpldata

### LINES
# See http://matplotlib.org/api/artist_api.html#module-matplotlib.lines for more
# information on line properties.
#lines.linewidth : 1.0 # line width in points
#lines.linestyle : - # solid line
#lines.color : blue # has no affect on plot(); see axes.prop_cycle
#lines.marker : None # the default marker
#lines.markeredgewidth : 0.5 # the line width around the marker symbol
#lines.markersize : 6 # markersize, in points
#lines.dash_joinstyle : miter # miter|round|bevel
#lines.dash_capstyle : butt # butt|round|projecting
#lines.solid_joinstyle : miter # miter|round|bevel
#lines.solid_capstyle : projecting # butt|round|projecting
#lines.antialiased : True # render lines in antialiased (no jaggies)
### PATCHES

Patches are graphical objects that fill 2D space, like polygons or circles. See http://matplotlib.org/api/artist_api.html#module-matplotlib.patches for information on patch properties.

- `patch.linewidth`: 1.0 # edge width in points
- `patch.facecolor`: blue
- `patch.edgecolor`: black
- `patch.antialiased`: True # render patches in antialiased (no jaggies)

### FONT

Font properties used by text.Text. See http://matplotlib.org/api/font_manager_api.html for more information on font properties. The 6 font properties used for font matching are given below with their default values.

- The `font.family` property has five values: 'serif' (e.g., Times), 'sans-serif' (e.g., Helvetica), 'cursive' (e.g., Zapf-Chancery), 'fantasy' (e.g., Western), and 'monospace' (e.g., Courier). Each of these font families has a default list of font names in decreasing order of priority associated with them. When `text.usetex` is False, `font.family` may also be one or more concrete font names.

- The `font.style` property has three values: normal (or roman), italic or oblique. The oblique style will be used for italic, if it is not present.

- The `font.variant` property has two values: normal or small-caps. For TrueType fonts, which are scalable fonts, small-caps is equivalent to using a font size of 'smaller', or about 83% of the current font size.

- The `font.weight` property has effectively 13 values: normal, bold, bolder, lighter, 100, 200, 300, ..., 900. Normal is the same as 400, and bold is 700. bolder and lighter are relative values with respect to the current weight.

- The `font.stretch` property has 11 values: ultra-condensed, extra-condensed, condensed, semi-condensed, normal, semi-expanded, expanded, extra-expanded, ultra-expanded, wider, and narrower. This property is not currently implemented.

- The `font.size` property is the default font size for text, given in pts. 12pt is the standard value.
# Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10

### TEXT

# text properties used by text.Text. See
# http://matplotlib.org/api/artist_api.html#module-matplotlib.text for more
# information on text properties

#text.color          : black

### LaTeX customizations. See http://wiki.scipy.org/Cookbook/Matplotlib/UsingTex

#text.usetex         : False  # use latex for all text handling. The following fonts
# are supported through the usual rc parameter settings:
# new century schoolbook, bookman, times, palatino,
# zapf chancery, charter, serif, sans-serif, helvetica,
# avant garde, courier, monospace, computer modern roman,
# computer modern sans serif, computer modern typewriter
# If another font is desired which can loaded using the
# LaTeX \usepackage command, please inquire at the
# matplotlib mailing list

#text.latex.unicode : False # use "ucs" and "inputenc" LaTeX packages for handling
# unicode strings.

#text.latex.preamble : # IMPROPER USE OF THIS FEATURE WILL LEAD TO LATEX FAILURES
# AND IS THEREFORE UNSUPPORTED. PLEASE DO NOT ASK FOR HELP
# IF THIS FEATURE DOES NOT DO WHAT YOU EXPECT IT TO.
# preamble is a comma separated list of LaTeX statements
# that are included in the LaTeX document preamble.
# An example:
# text.latex.preamble : \usepackage{bm},\usepackage{euler}
# The following packages are always loaded with usetex, so
# beware of package collisions: color, geometry, graphicx,
# type1cm, textcomp. Adobe Postscript (PSSNFS) font packages
# may also be loaded, depending on your font settings

#text.dvipng_hack : None  # some versions of dvipng don't handle alpha
# channel properly. Use True to correct
# and flush ~/.matplotlib/tex_cache
# before testing and False to force
# correction off. None will try and
# guess based on your dvipng version

#text.hinting : auto  # May be one of the following:
#  'none': Perform no hinting
#  'auto': Use freetype's autohinter
#  'native': Use the hinting information in the
#            font file, if available, and if your
#            freetype library supports it
#  'either': Use the native hinting information,
#            or the autohinter if none is available.
# For backward compatibility, this value may also be
# True === 'auto' or False === 'none'.
#text.hinting_factor : 8  # Specifies the amount of softness for hinting in the
# horizontal direction. A value of 1 will hint to full
# pixels. A value of 2 will hint to half pixels etc.

#text.antialiased : True  # If True (default), the text will be antialiased.
# This only affects the Agg backend.

# The following settings allow you to select the fonts in math mode.
# They map from a TeX font name to a fontconfig font pattern.
# These settings are only used if mathtext.fontset is 'custom'.
# Note that this "custom" mode is unsupported and may go away in the
# future.
#mathtext.cal : cursive
#mathtext.rm : serif
#mathtext.tt : monospace
#mathtext.it : serif:italic
#mathtext.bf : serif:bold
#mathtext.sf : sans
#mathtext.fontset : cm  # Should be 'cm' (Computer Modern), 'stix',
#                    # 'stixsans' or 'custom'
#mathtext.fallback_to_cm : True  # When True, use symbols from the Computer Modern
#                          # fonts when a symbol can not be found in one of
#                          # the custom math fonts.

#mathtext.default : it  # The default font to use for math.
# Can be any of the LaTeX font names, including
# the special name "regular" for the same font
# used in regular text.
### AXES
# default face and edge color, default tick sizes,
# default fontsizes for ticklabels, and so on. See
# http://matplotlib.org/api/axes_api.html#module-matplotlib.axes
#axes.hold           : True    # whether to clear the axes by default on
#axes.facecolor      : white   # axes background color
#axes.edgecolor      : black   # axes edge color
#axes.linewidth      : 1.0     # edge linewidth
#axes.grid           : False   # display grid or not
#axes.titlesize      : large   # fontsize of the axes title
#axes.labelsize      : medium  # fontsize of the x any y labels
#axes.labelpad       : 5.0     # space between label and axis
#axes.labelweight    : normal  # weight of the x and y labels
#axes.labelcolor     : black
#axes.axisbelow      : False   # whether axis gridlines and ticks are below
# the axes elements (lines, text, etc)

#axes.formatter.limits : -7, 7 # use scientific notation if log10
# of the axis range is smaller than the
# first or larger than the second
#axes.formatter.use_locale : False # When True, format tick labels
# according to the user's locale.
# For example, use ‘,’ as a decimal
# separator in the fr_FR locale.
#axes.formatter.use_mathtext : False # When True, use mathtext for scientific
# notation.
#axes.formatter.useoffset : True # If True, the tick label formatter
# will default to labeling ticks relative
# to an offset when the data range is very
# small compared to the minimum absolute
# value of the data.

#axes.unicode_minus  : True    # use unicode for the minus symbol
# rather than hyphen. See
# http://en.wikipedia.org/wiki/Plus_and_minus_signs#Character_codes
#axes.prop_cycle    : cycler('color', 'bgrcmyk')
# color cycle for plot lines
# as list of string colorspecs:
# single letter, long name, or
# web-style hex
#axes.xmargin        : 0  # x margin. See `axes.Axes.margins`
#axes.ymargin        : 0  # y margin See `axes.Axes.margins`
#polaraxes.grid      : True    # display grid on polar axes
#axes3d.grid         : True    # display grid on 3d axes

### TICKS
# see http://matplotlib.org/api/axis_api.html#matplotlib.axis.Tick
#xtick.major.size : 4  # major tick size in points
#xtick.minor.size : 2  # minor tick size in points
#xtick.major.width : 0.5 # major tick width in points
#xtick.minor.width : 0.5 # minor tick width in points
#xtick.major.pad : 4    # distance to major tick label in points
#xtick.minor.pad : 4    # distance to the minor tick label in points
#xtick.color : k       # color of the tick labels
#xtick.labelsize : medium # fontsize of the tick labels
#xtick.direction : in   # direction: in, out, or inout

#ytick.major.size : 4  # major tick size in points
#ytick.minor.size : 2  # minor tick size in points
#ytick.major.width : 0.5 # major tick width in points
#ytick.minor.width : 0.5 # minor tick width in points
#ytick.major.pad : 4    # distance to major tick label in points
#ytick.minor.pad : 4    # distance to the minor tick label in points
#ytick.color : k       # color of the tick labels
#ytick.labelsize : medium # fontsize of the tick labels
#ytick.direction : in   # direction: in, out, or inout

### GRIDS
#grid.color       : black   # grid color
#grid.linestyle   : :       # dotted
#grid.linewidth   : 0.5     # in points
#grid.alpha       : 1.0     # transparency, between 0.0 and 1.0

### Legend
#legend.fancybox      : False  # if True, use a rounded box for the
   # legend, else a rectangle
#legend.isaxes        : True
#legend.numpoints     : 2      # the number of points in the legend line
#legend.fontsize      : large
#legend.borderpad     : 0.5    # border whitespace in fontsize units
#legend.markerscale   : 1.0    # the relative size of legend markers vs. original
# the following dimensions are in axes coords
#legend.labelspacing  : 0.5    # the vertical space between the legend entries in fraction of fontsize
#legend.handlelength  : 2.0    # the length of the legend lines in fraction of fontsize
#legend.handleheight  : 0.7    # the height of the legend handle in fraction of fontsize
#legend.handletextpad : 0.8    # the space between the legend line and legend text in fraction of fontsize
#legend.borderaxespad : 0.5    # the border between the axes and legend edge in fraction of fontsize
#legend.columnsspacing : 2.0    # the border between the axes and legend edge in fraction of fontsize
#legend.shadow        : False
#legend.frameon       : True    # whether or not to draw a frame around legend
#legend.framealpha    : None    # opacity of of legend frame
#legend.scatterpoints : 3 # number of scatter points
### FIGURE
# See http://matplotlib.org/api/figure_api.html#matplotlib.figure.Figure
#figure.titlesize : medium # size of the figure title
#figure.titleweight : normal # weight of the figure title
#figure.figsize : 8, 6 # figure size in inches
#figure.dpi : 80 # figure dots per inch
#figure.facecolor : 0.75 # figure facecolor; 0.75 is scalar gray
#figure.edgecolor : white # figure edgecolor
#figure.autolayout : False # When True, automatically adjust subplot
# parameters to make the plot fit the figure
#figure.max_open_warning : 20 # The maximum number of figures to open through
# the pyplot interface before emitting a warning.
# If less than one this feature is disabled.

# The figure subplot parameters. All dimensions are a fraction of the
# figure width or height
#figure.subplot.left : 0.125 # the left side of the subplots of the figure
#figure.subplot.right : 0.9 # the right side of the subplots of the figure
#figure.subplot.bottom : 0.1 # the bottom of the subplots of the figure
#figure.subplot.top : 0.9 # the top of the subplots of the figure
#figure.subplot.wspace : 0.2 # the amount of width reserved for blank space between subplots
#figure.subplot.hspace : 0.2 # the amount of height reserved for white space between subplots

### IMAGES
#image.aspect : equal # equal | auto | a number
#image.interpolation : bilinear # see help(imshow) for options
#image.cmap : jet # gray | jet etc...
#image.lut : 256 # the size of the colormap lookup table
#image.origin : upper # lower | upper
#image.resample : False
#image.composite_image : True # When True, all the images on a set of axes are
# combined into a single composite image before
# saving a figure as a vector graphics file,
# such as a PDF.

### CONTOUR PLOTS
#contour.negative_linestyle : dashed # dashed | solid
#contour.corner_mask : True # True | False | legacy

### ERRORBAR PLOTS
#errorbar.capsize : 3 # length of end cap on error bars in pixels

### Agg rendering
### Warning: experimental, 2008/10/10
#agg.path.chunksize : 0 # 0 to disable; values in the range
# 10000 to 100000 can improve speed slightly
# and prevent an Agg rendering failure
# when plotting very large data sets,
especially if they are very gappy.
It may cause minor artifacts, though.
A value of 20000 is probably a good
starting point.

### SAVING FIGURES
$path.simplify : True # When True, simplify paths by removing "invisible"
# points to reduce file size and increase rendering
# speed
$path.simplify_threshold : 0.1 # The threshold of similarity below which
# vertices will be removed in the simplification
# process
$path.snap : True # When True, rectilinear axis-aligned paths will be snapped to
# the nearest pixel when certain criteria are met. When False,
# paths will never be snapped.
$path.sketch : None # May be none, or a 3-tuple of the form (scale, length,
# randomness).
# *scale* is the amplitude of the wiggle
# perpendicular to the line (in pixels). *length*
# is the length of the wiggle along the line (in
# pixels). *randomness* is the factor by which
# the length is randomly scaled.

# the default savefig params can be different from the display params
# e.g., you may want a higher resolution, or to make the figure
# background white
#savefig.dpi : 100 # figure dots per inch
#savefig.facecolor : white # figure facecolor when saving
#savefig.edgecolor : white # figure edgecolor when saving
#savefig.format : png # png, ps, pdf, svg
#savefig.bbox : standard # 'tight' or 'standard'.
# 'tight' is incompatible with pipe-based animation
# backends but will workd with temporary file based ones:
# e.g. setting animation.writer to ffmpeg will not work,
# use ffmpeg_file instead
#savefig.pad_inches : 0.1 # Padding to be used when bbox is set to 'tight'
#savefig.jpeg_quality : 95 # when a jpeg is saved, the default quality parameter.
#savefig.directory : ~ # default directory in savefig dialog box,
# leave empty to always use current working directory
#savefig.transparent : False # setting that controls whether figures are saved with a
# transparent background by default

# tk backend params
#tk.window_focus : False # Maintain shell focus for TkAgg

# ps backend params
#ps.papersize : letter # auto, letter, legal, ledger, A0-A10, B0-B10
#ps.useafm : False # use of afm fonts, results in small files
#ps.usedistiller : False # can be: None, ghostscript or xpdf
# Experimental: may produce smaller files.
# xpdf intended for production of publication quality files,
# but requires ghostscript, xpdf and ps2eps
#ps.distiller.res : 6000   # dpi
#ps.fonttype : 3   # Output Type 3 (Type3) or Type 42 (TrueType)

# pdf backend params
#pdf.compression : 6 # integer from 0 to 9
# 0 disables compression (good for debugging)
#pdf.fonttype : 3   # Output Type 3 (Type3) or Type 42 (TrueType)

# svg backend params
#svg.image_inline : True   # write raster image data directly into the svg file
#svg.image_noscale : False   # suppress scaling of raster data embedded in SVG
#svg.fonttype : 'path'   # How to handle SVG fonts:
#  'none': Assume fonts are installed on the machine where the SVG will be viewed.
#  'path': Embed characters as paths -- supported by most SVG renderers
#  'svgfont': Embed characters as SVG fonts -- supported only by Chrome,
#         Opera and Safari

# docstring params
#docstring.hardcopy = False   # set this when you want to generate hardcopy docstring

# Set the verbose flags. This controls how much information
# matplotlib gives you at runtime and where it goes. The verbosity
# levels are: silent, helpful, debug, debug-annoying. Any level is
# inclusive of all the levels below it. If your setting is "debug",
# you'll get all the debug and helpful messages. When submitting
# problems to the mailing-list, please set verbose to "helpful" or "debug"
# and paste the output into your report.
#
# The "fileo" gives the destination for any calls to verbose.report.
# These objects can a filename, or a filehandle like sys.stdout.
#
# You can override the rc default verbosity from the command line by
# giving the flags --verbose-LEVEL where LEVEL is one of the legal
# levels, e.g., --verbose-helpful.
#
# You can access the verbose instance in your code
# from matplotlib import verbose.
#verbose.level : silent      # one of silent, helpful, debug, debug-annoying
#verbose.fileo : sys.stdout  # a log filename, sys.stdout or sys.stderr

# Event keys to interact with figures/plots via keyboard.
# Customize these settings according to your needs.
# Leave the field(s) empty if you don't need a key-map. (i.e., fullscreen : '')
#
#keymap.fullscreen : f        # toggling
#keymap.home : h, r, home            # home or reset mnemonic
#keymap.back : left, c, backspace   # forward / backward keys to enable
#keymap.forward : right, v          # left handed quick navigation
#keymap.pan : p                       # pan mnemonic
#keymap.zoom : o                      # zoom mnemonic
#keymap.save : s                      # saving current figure
#keymap.quit : ctrl+w, cmd+w          # close the current figure
#keymap.grid : g                      # switching on/off a grid in current axes
#keymap.yscale : l                   # toggle scaling of y-axes ('log'/'linear')
#keymap.xscale : L, k                # toggle scaling of x-axes ('log'/'linear')
#keymap.all_axes : a                 # enable all axes

# Control location of examples data files
#examples.directory : "              # directory to look in for custom installation

###ANIMATION settings
#animation.html : 'none'             # How to display the animation as HTML in
   # the IPython notebook. 'html5' uses
   # HTML5 video tag.
#animation.writer : ffmpeg           # MovieWriter 'backend' to use
#animation.codec : mpeg4            # Codec to use for writing movie
#animation.bitrate: -1              # Controls size/quality tradeoff for movie.
   # -1 implies let utility auto-determine
#animation.frame_format: 'png'      # Controls frame format used by temp files
#animation.ffmpeg_path: 'ffmpeg'     # Path to ffmpeg binary. Without full path
   # SPATH is searched
#animation.ffmpeg_args: "          # Additional arguments to pass to ffmpeg
#animation.avconv_path: 'avconv'    # Path to avconv binary. Without full path
   # SPATH is searched
#animation.avconv_args: "          # Additional arguments to pass to avconv
#animation.mencoder_path: 'mencoder' # Path to mencoder binary. Without full path
   # SPATH is searched
#animation.mencoder_args: "        # Additional arguments to pass to mencoder
#animation.convert_path: 'convert'  # Path to ImageMagick's convert binary.
   # On Windows use the full path since convert
   # is also the name of a system tool.

P6
# CREATOR: The GIMP's PNM Filter Version 1.0
16 16
255
P6
24 24
255
p$"hsfgsecVx#2Dy00usjOw!<Q=X5Lw./.us$Mw!<R}Y4Q/K#:w/.us:s.O@[6R0L&B"!?w/.usw<O>Yy^-56>,2!9"?
:w/.ghx=O=Uhs116"?w.s>R@[f#n118"?!w/.u=RE\d !/f"?#w/.uAVJbh-/f+*)A"?w.-
w!DYKdg)+vo^XJe)+A"?21{--
AUIa??mqj|OD4y43&9mGP@?p|wn-eUkhn$"v41r|tc|cLyozscxaLyozraqFyozr' {zjVByozsqtoaP<youtfhehcXI6
Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10

# CREATOR: The GIMP's PNM Filter Version 1.0
16 16
255
sOoOoHf3HZ"0;xBlo3HZ00oOoOo3HZxOo3HZ3HZx

# CREATOR: The GIMP's PNM Filter Version 1.0
16 16
255
&\&FFppppFF%

 axes.prop_cycle: cycler('color', ['0072B2', '009E73', 'D55E00', 'CC79A7', 'F0E442', '56B4E9'])

# Seaborn font
figure.figsize: 10.4, 7.15
axes.labelsize: 14.3
axes.titlesize: 15.6
xtick.labelsize: 13
ytick.labelsize: 13
legend.fontsize: 13
savefig.facecolor: f0f0f0

figure.subplot.left: 0.08
figure.subplot.right: 0.95
figure.subplot.bottom: 0.07
figure.facecolor: f0f0f0

# Seaborn pastel palette
axes.prop_cycle: cycler('color', ['92C6FF', '97F0AA', 'FF9F9A', 'D0BBFF', 'FFFEA3', 'B0E0E6'])
# Seaborn notebook context
figure.figsize: 8.0, 5.5
axes.labelsize: 11
axes.titlesize: 12
xtick.labelsize: 10
ytick.labelsize: 10
legend.fontsize: 10
grid.linewidth: 1
lines.linewidth: 1.75
patch.linewidth: .3
lines.markersize: 7
lines.markeredgewidth: 0

xtick.major.width: 1
xtick.minor.width: .5

# Seaborn common parameters
# .15 = dark_gray
# .8 = light_gray
figure.facecolor: white
text.color: .15
axes.labelcolor: .15
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1
xtick.direction: out
ytick.direction: out
xtick.color: .15
xtick.color: .15
axes.axisbelow: True
image.cmap: Greys
font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, Bitstream Vera Sans, sans-serif
grid linestyle: -
lines.solid_capstyle: round
# Seaborn white parameters
axes.grid: False
axes.facecolor: white
axes.edgecolor: .15
axes.linewidth: 1.25
grid.color: .8
xtick.major.size: 6
ytick.major.size: 6
xtick.minor.size: 3
ytick.minor.size: 3

#Author: Cameron Davidson-Pilon, original styles from Bayesian Methods for Hackers
# https://github.com/CamDavidsonPilon/Probabilistic-Programming-and-Bayesian-Methods-for-Hackers/

lines.linewidth : 2.0

patch.linewidth: 0.5
patch.facecolor: blue
patch.edgecolor: eeeeee
patch.antialiased: True

text.hinting_factor : 8

mathtext.fontset : cm

axes.facecolor: eeeeee
axes.edgecolor: bcbcbc
axes.grid : True
axes.titlesize: x-large
axes.labelsize: large
axes.prop_cycle: cycler('color', ['348ABD', 'A60628', '7A68A6', '467821', 'D55E00', 'CC79A7', '56B4E9', '009E73',
                                    'F0E442', '0072B2'])

legend.fancybox: True
# Seaborn paper context
figure.figsize: 6.4, 4.4
axes.labelsize: 8.8
axes.titlesize: 9.6
xtick.labelsize: 8
ytick.labelsize: 8
legend.fontsize: 8

grid.linewidth: 0.8
lines.linewidth: 1.4
patch.linewidth: 0.24
lines.markersize: 5.6
lines.markeredgewidth: 0
xtick.major.width: 0.8
xtick.minor.width: 0.4

tyick.major.width: 0.8
ytick.minor.width: 0.4

xtick.major.pad: 5.6
ytick.major.pad: 5.6

# Seaborn bright palette
axes.prop_cycle: cycler('color', ["003FFF", "03ED3A", "E8000B", "8A2BE2", "FFC400", "00D7FF"])

# Seaborn deep palette
axes.prop_cycle: cycler('color', ["4C72B0", "55A868", "C44E52", "8172B2", "CCB974", "64B5CD"])

# Seaborn common parameters
#.15 = dark_gray
#.8 = light_gray
figure.facecolor: white
text.color: .15
axes.labelcolor: .15
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1
xtick.direction: out
ytick.direction: out
xtick.color: .15
ytick.color: .15
axes.axisbelow: True
image.cmap: Greys
font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, Bitstream Vera Sans, sans-serif
grid.linestyle: -
lines.solid_capstyle: round

# Seaborn whitegrid parameters
axes.grid: True
axes.facecolor: white
axes.edgecolor: .8
axes.linewidth: 1
grid.color: .8
xtick.major.size: 0
ytick.major.size: 0
xtick.minor.size: 0
ytick.minor.size: 0

### Classic matplotlib plotting style as of v1.5

### LINES
# See http://matplotlib.org/api/artist_api.html#module-matplotlib.lines for more
# information on line properties.
lines.linewidth : 1.0   # line width in points
lines.linestyle : - # solid line
lines.color : b # has no affect on plot(); see axes.prop_cycle
lines.marker : None # the default marker
lines.markeredgewidth : 0.5 # the line width around the marker symbol
lines.markersize : 6 # markersize, in points
lines.dash_joinstyle : round # miter|round|bevel
lines.dash_capstyle : butt # butt|round|projecting
lines.solid_joinstyle : round # miter|round|bevel
lines.solid_capstyle : projecting # butt|round|projecting
lines.antialiased : True # render lines in antialiased (no jaggies)

### Marker props
markers.fillstyle: full

### PATCHES

# Patches are graphical objects that fill 2D space, like polygons or
# circles. See
# http://matplotlib.org/api/artist_api.html#module-matplotlib.patches
# information on patch properties
patch.linewidth : 1.0 # edge width in points
patch.facecolor : b
patch.edgecolor : k
patch.antialiased : True # render patches in antialiased (no jaggies)

### FONT

# font properties used by text.Text. See
# http://matplotlib.org/api/font_manager_api.html for more
# information on font properties. The 6 font properties used for font
# matching are given below with their default values.
#
# The font.family property has five values: 'serif' (e.g., Times),
# 'sans-serif' (e.g., Helvetica), 'cursive' (e.g., Zapf-Chancery),
# 'fantasy' (e.g., Western), and 'monospace' (e.g., Courier). Each of
# these font families has a default list of font names in decreasing
# order of priority associated with them. When text.usetex is False,
# font.family may also be one or more concrete font names.
#
# The font.style property has three values: normal (or roman), italic
# or oblique. The oblique style will be used for italic, if it is not
# present.
#
# The font.variant property has two values: normal or small-caps. For
# TrueType fonts, which are scalable fonts, small-caps is equivalent
# to using a font size of `smaller`, or about 83% of the current font
# size.
#
# The font.weight property has effectively 13 values: normal, bold,
# bolder, lighter, 100, 200, 300, ..., 900. Normal is the same as 400, and bold is 700. bolder and lighter are relative values with respect to the current weight.

# The font.stretch property has 11 values: ultra-condensed, extra-condensed, condensed, semi-condensed, normal, semi-expanded, expanded, extra-expanded, ultra-expanded, wider, and narrower. This property is not currently implemented.

# The font.size property is the default font size for text, given in pts. 12pt is the standard value.

font.family : sans-serif
font.style : normal
font.variant : normal
font.weight : normal
font.stretch : normal

# note that font.size controls default text sizes. To configure special text sizes tick labels, axes, labels, title, etc, see the rc settings for axes and ticks. Special text sizes can be defined relative to font.size, using the following values: xx-small, x-small, small, medium, large, x-large, xx-large, larger, or smaller

font.size : 12.0
font.serif : Bitstream Vera Serif, DejaVu Serif, New Century Schoolbook, Century Schoolbook L, Utopia, ITC Bookman, Bookman, Nimbus Roman No9 L, Times New Roman, Times, Palatino, Charter, serif
font.sans-serif: Bitstream Vera Sans, DejaVu Sans, Lucida Grande, Verdana, Geneva, Lucid, Arial, Helvetica, Avant Garde, sans-serif
font.cursive : Apple Chancery, Textile, Zapf Chancery, Sand, Script MT, Felipa, cursive
font.fantasy : Comic Sans MS, Chicago, Charcoal, ImpactWestern, Humor Sans, fantasy
font.monospace : Bitstream Vera Sans Mono, DejaVu Sans Mono, Andale Mono, Nimbus Mono L, Courier New, Courier, Fixed, Terminal, monospace

### TEXT

# text properties used by text.Text. See http://matplotlib.org/api/artist_api.html#module-matplotlib.text for more information on text properties

text.color : k

### LaTeX customizations. See http://www.scipy.org/Wiki/Cookbook/Matplotlib/UsingTex

text.usetex : False # use latex for all text handling. The following fonts are supported through the usual rc parameter settings:
# new century schoolbook, bookman, times, palatino,
# zapf chancery, charter, serif, sans-serif, helvetica,
# avant garde, courier, monospace, computer modern roman,
# computer modern sans serif, computer modern typewriter
# If another font is desired which can loaded using the \LaTeX usepackage command, please inquire at the
# matplotlib mailing list

text.latex.unicode : False # use "ucs" and "inputenc" LaTeX packages for handling
# unicode strings.

text.latex.preamble : # IMPROPER USE OF THIS FEATURE WILL LEAD TO LATEX FAILURES
# AND IS THEREFORE UNSUPPORTED. PLEASE DO NOT ASK FOR HELP
# IF THIS FEATURE DOES NOT DO WHAT YOU EXPECT IT TO.
# preamble is a comma separated list of LaTeX statements
# that are included in the LaTeX document preamble.
# An example:
# text.latex.preamble : \usepackage{bm},\usepackage{euler}
# The following packages are always loaded with usetex, so
# beware of package collisions: color, geometry, graphicx,
# type1cm, textcomp. Adobe Postscript (PSSNFS) font packages
# may also be loaded, depending on your font settings

text.latex.preview : False

text.dvipnghack : None      # some versions of dvipng don't handle alpha
# channel properly. Use True to correct
# and flush ~/.matplotlib/tex.cache
# before testing and False to force
# correction off. None will try and
# guess based on your dvipng version

text.hinting : auto # May be one of the following:
# 'none': Perform no hinting
# 'auto': Use freetype's autohinter
# 'native': Use the hinting information in the
#   font file, if available, and if your
#   freetype library supports it
# 'either': Use the native hinting information,
#   or the autohinter if none is available.
# For backward compatibility, this value may also be
# True === 'auto' or False === 'none'.

text.hinting_factor : 8 # Specifies the amount of softness for hinting in the
# horizontal direction. A value of 1 will hint to full
# pixels. A value of 2 will hint to half pixels etc.

text.antialiased : True # If True (default), the text will be antialiased.
# This only affects the Agg backend.

# The following settings allow you to select the fonts in math mode.
# They map from a TeX font name to a fontconfig font pattern.
# These settings are only used if mathtext.fontset is 'custom'.
# Note that this "custom" mode is unsupported and may go away in the
# future.
mathtext.cal : cursive
mathtext.rm  : serif
mathtext.tt  : monospace
mathtext.it : serif:italic  
mathtext.bf : serif:bold  
mathtext.sf : sans-serif  
mathtext.fontset : cm # Should be 'cm' (Computer Modern), 'stix',  
    # 'stixsans' or 'custom'  
mathtext.fallback_to_cm : True # When True, use symbols from the Computer Modern  
    # fonts when a symbol can not be found in one of  
    # the custom math fonts.  
mathtext.default : it # The default font to use for math.  
    # Can be any of the LaTeX font names, including  
    # the special name "regular" for the same font  
    # used in regular text.  

### AXES  
# default face and edge color, default tick sizes,  
# default fontsizes for ticklabels, and so on. See  
# http://matplotlib.org/api/axes_api.html#module-matplotlib.axes  
exes.hold : True # whether to clear the axes by default on  
exes.facecolor : w # axes background color  
exes.edgecolor : k # axes edge color  
exes.linewidth : 1.0 # edge linewidth  
exes.grid : False # display grid or not  
exes.grid.which : both  
exes.grid.axis : both  
exes.titlesize : large # fontsize of the axes title  
exes.titleweight : normal # font weight for axes title  
exes.labelsizer : medium # fontsize of the x any y labels  
exes.labelpad : 5.0 # space between label and axis  
exes.labelweight : normal # weight of the x and y labels  
exes.labelcolor : k  
exes.axisbelow : False # whether axis gridlines and ticks are below  
    # the axes elements (lines, text, etc)  
exes.formatter.limits : -7, 7 # use scientific notation if log10  
    # of the axis range is smaller than the  
    # first or larger than the second  
exes.formatter.use_locale : False # When True, format tick labels  
    # according to the user's locale.  
    # For example, use ',' as a decimal  
    # separator in the fr_FR locale.  
exes.formatter.use_mathtext : False # When True, use mathtext for scientific  
    # notation.  
exes.formatter.useoffset : True # If True, the tick label formatter  
    # will default to labeling ticks relative  
    # to an offset when the data range is very  
    # small compared to the minimum absolute  
    # value of the data.
axes.unicode_minus : True  # use unicode for the minus symbol
                   # rather than hyphen. See
                   # http://en.wikipedia.org/wiki/Plus_and_minus_signs#Character_codes
axes.prop_cycle : cycler('color', 'bgrcmyk')
                   # color cycle for plot lines
                   # as list of string colorspecs:
                   # single letter, long name, or
                   # web-style hex
axes.xmargin       : 0  # x margin. See `axes.Axes.margins`
axes.ymargin       : 0  # y margin See `axes.Axes.margins`
axes.spines.bottom : True
axes.spines.left   : True
axes.spines.right  : True
axes.spines.top    : True
polaraxes.grid     : True    # display grid on polar axes
axes3d.grid        : True    # display grid on 3d axes

### TICKS
# see http://matplotlib.org/api/axis_api.html#matplotlib.axis.Tick
xtick.major.size   : 4   # major tick size in points
xtick.minor.size   : 2   # minor tick size in points
xtick.minor.visible : False
xtick.major.width  : 0.5 # major tick width in points
xtick.minor.width  : 0.5 # minor tick width in points
xtick.major.pad    : 4   # distance to major tick label in points
xtick.minor.pad    : 4   # distance to the minor tick label in points
xtick.color        : k   # color of the tick labels
xtick.labelsize    : medium # fontsize of the tick labels
xtick.direction    : in  # direction: in, out, or inout

ytick.major.size   : 4   # major tick size in points
ytick.minor.size   : 2   # minor tick size in points
ytick.minor.visible : False
ytick.major.width  : 0.5 # major tick width in points
ytick.minor.width  : 0.5 # minor tick width in points
ytick.major.pad    : 4   # distance to major tick label in points
ytick.minor.pad    : 4   # distance to the minor tick label in points
ytick.color        : k   # color of the tick labels
ytick.labelsize    : medium # fontsize of the tick labels
ytick.direction    : in  # direction: in, out, or inout

### GRIDS
grid.color         : k   # grid color
grid.linestyle     : : # dotted
grid.linewidth     : 0.5 # in points
grid.alpha         : 1.0 # transparency, between 0.0 and 1.0
### Legend
legend.fancybox : False  # if True, use a rounded box for the
    # legend, else a rectangle
legend.loc : upper right
legend.isaxes : True  # this option is internally ignored
legend.numpoints : 2  # the number of points in the legend line
legend.fontsize : large
legend.borderpad : 0.4  # border whitespace in fontsize units
legend.markerscale : 1.0  # the relative size of legend markers vs. original
    # the following dimensions are in axes coords
legend.labelspacing : 0.5  # the vertical space between the legend entries in fraction of fontsize
legend.handlelength : 2  # the length of the legend lines in fraction of fontsize
legend.handleheight : 0.7  # the height of the legend handle in fraction of fontsize
legend.handletextpad : 0.8  # the space between the legend line and legend text in fraction of fontsize
legend.borderaxespad : 0.5  # the border between the axes and legend edge in fraction of fontsize
legend.columnspacing : 2.  # the border between the axes and legend edge in fraction of fontsize
legend.shadow : False
legend.frameon : True  # whether or not to draw a frame around legend
legend.framealpha : None  # opacity of of legend frame
legend.scatterpoints : 3  # number of scatter points
legend.facecolor : inherit  # legend background color (when None inherits from axes.facecolor)
legend.edgecolor : inherit  # legend edge color (when None inherits from axes.facecolor)

### FIGURE
# See http://matplotlib.org/api/figure_api.html#matplotlib.figure.Figure
figure.titlesize : medium  # size of the figure title
figure.titleweight : normal  # weight of the figure title
figure.figsize : 8, 6  # figure size in inches
figure.dpi : 80  # figure dots per inch
figure.facecolor : 0.75  # figure facecolor; 0.75 is scalar gray
figure.edgecolor : w  # figure edgecolor
figure.autolayout : False  # When True, automatically adjust subplot
    # parameters to make the plot fit the figure
figure.max_open_warning : 20  # The maximum number of figures to open through
    # the pyplot interface before emitting a warning.
    # If less than one this feature is disabled.
figure.frameon : True

# The figure subplot parameters. All dimensions are a fraction of the
# figure width or height
figure.subplot.left : 0.125  # the left side of the subplots of the figure
figure.subplot.right : 0.9  # the right side of the subplots of the figure
figure.subplot.bottom : 0.1  # the bottom of the subplots of the figure
figure.subplot.top : 0.9  # the top of the subplots of the figure
figure.subplot.wspace : 0.2  # the amount of width reserved for blank space between subplots
figure.subplot.hspace : 0.2    # the amount of height reserved for white space between subplots

### IMAGES
image.aspect : equal         # equal | auto | a number
image.interpolation : bilinear # see help(imshow) for options
image.cmap : jet             # gray | jet etc...
image.lut : 256              # the size of the colormap lookup table
image.origin : upper         # lower | upper
image.resample : False
image.composite_image : True

### CONTOUR PLOTS
contour.negative_linestyle : dashed # dashed | solid
contour.corner_mask : True

# errorbar props
errorbar.capsize: 3

### Boxplots
boxplot.bootstrap: None
boxplot.boxprops.color: b
boxplot.boxprops.linestyle: -
boxplot.boxprops.linewidth: 1.0
boxplot.capprops.color: k
boxplot.capprops.linestyle: -
boxplot.capprops.linewidth: 1.0
boxplot.flierprops.color: b
boxplot.flierprops.linestyle: -
boxplot.flierprops.linewidth: 1.0
boxplot.flierprops.marker: +
boxplot.flierprops.markeredgecolor: k
boxplot.flierprops.markercolor: b
boxplot.flierprops.markersize: 6.0
boxplot.meanline: False
boxplot.meanprops.color: r
boxplot.meanprops.linestyle: -
boxplot.meanprops.linewidth: 1.0
boxplot.medianprops.color: r
boxplot.medianprops.linestyle: -
boxplot.medianprops.linewidth: 1.0
boxplot.notch: False
boxplot.patchartist: False
boxplot.showbox: True
boxplot.showcaps: True
boxplot.showfliers: True
boxplot.showmeans: False
boxplot.vertical: True
boxplot.whiskerprops.color: b
boxplot.whiskerprops.linestyle: --
boxplot.whiskerprops.linewidth: 1.0
boxplot.whiskers: 1.5

### Agg rendering
### Warning: experimental, 2008/10/10
agg.path.chunksize : 0           # 0 to disable; values in the range
   # 10000 to 100000 can improve speed slightly
   # and prevent an Agg rendering failure
   # when plotting very large data sets,
   # especially if they are very gappy.
   # It may cause minor artifacts, though.
   # A value of 20000 is probably a good
   # starting point.

### SAVING FIGURES
path.simplify : True   # When True, simplify paths by removing "invisible"
         # points to reduce file size and increase rendering
         # speed
path.simplify_threshold : 0.1111111111111111
   # The threshold of similarity below which
   # vertices will be removed in the simplification
   # process
path.snap : True # When True, rectilinear axis-aligned paths will be snapped to
   # the nearest pixel when certain criteria are met. When False,
   # paths will never be snapped.
path.sketch : None # May be none, or a 3-tuple of the form (scale, length,
         # randomness).
         # *scale* is the amplitude of the wiggle
         # perpendicular to the line (in pixels). *length*
         # is the length of the wiggle along the line (in
         # pixels). *randomness* is the factor by which
         # the length is randomly scaled.

# the default savefig params can be different from the display params
# e.g., you may want a higher resolution, or to make the figure
# background white
savefig.dpi : 100      # figure dots per inch
savefig.facecolor : w        # figure facecolor when saving
savefig.edgecolor : w        # figure edgecolor when saving
savefig.format : png      # png, ps, pdf, svg
savefig.bbox : standard # 'tight' or 'standard'.
                   # 'tight' is incompatible with pipe-based animation
                   # backends but will work with temporary file based ones:
                   # e.g. setting animation.writer to ffmpeg will not work,
                   # use ffmpeg_file instead
savefig.pad_inches : 0.1    # Padding to be used when bbox is set to 'tight'
savefig.jpeg_quality: 95    # when a jpeg is saved, the default quality parameter.
savefig.directory : ~       # default directory in savefig dialog box,
# leave empty to always use current working directory
savefig.transparent : False  # setting that controls whether figures are saved with a
# transparent background by default
savefig.frameon : True
savefig.orientation : portrait

nbagg.transparent: True

# tk backend params
tk.window_focus   : False  # Maintain shell focus for TkAgg

# ps backend params
ps.papersize      : letter  # auto, letter, legal, ledger, A0-A10, B0-B10
ps.useafm         : False  # use of afm fonts, results in small files
ps.usedistiller   : False  # can be: None, ghostscript or xpdf
    # Experimental: may produce smaller files.
    # xpdf intended for production of publication quality files,
    # but requires ghostscript, xpdf and ps2eps
ps.distiller.res  : 6000   # dpi
ps.fonttype       : 3      # Output Type 3 (Type3) or Type 42 (TrueType)

# pdf backend params
pdf.compression   : 6 # integer from 0 to 9
    # 0 disables compression (good for debugging)
pdf.fonttype      : 3      # Output Type 3 (Type3) or Type 42 (TrueType)
pdf.inheritcolor  : False
pdf.use14corefonts : False

# pgf backend params
pgf.debug         : False
pgf.texsystem     : xelatex
pgf.rcfonts       : True
pgf.preamble      :

# svg backend params
svg.image_inline  : True  # write raster image data directly into the svg file
svg.image_noscale : False  # suppress scaling of raster data embedded in SVG
svg.fonttype      : path  # How to handle SVG fonts:
    # 'none': Assume fonts are installed on the machine where the SVG will be viewed.
    # 'path': Embed characters as paths -- supported by most SVG renderers
    # 'svgfont': Embed characters as SVG fonts -- supported only by Chrome,
    # Opera and Safari

# Set the verbose flags.  This controls how much information
# matplotlib gives you at runtime and where it goes.  The verbosity
# levels are: silent, helpful, debug, debug-annoying.  Any level is
# inclusive of all the levels below it.  If your setting is "debug",  

# you'll get all the debug and helpful messages. When submitting
# problems to the mailing-list, please set verbose to "helpful" or "debug"
# and paste the output into your report.
#
# The "fileo" gives the destination for any calls to verbose.report.
# These objects can a filename, or a filehandle like sys.stdout.
#
# You can override the rc default verbosity from the command line by
# giving the flags --verbose-LEVEL where LEVEL is one of the legal
# levels, e.g., --verbose-helpful.
#
# You can access the verbose instance in your code
# from matplotlib import verbose.
verbose.level : silent  # one of silent, helpful, debug, debug-annoying
verbose.fileo : sys.stdout  # a log filename, sys.stdout or sys.stderr
#
# Event keys to interact with figures/plots via keyboard.
# Customize these settings according to your needs.
# Leave the field(s) empty if you don't need a key-map. (i.e., fullscreen : '')
keymap.fullscreen : f, ctrl+f  # toggling
keymap.home : h, r, home  # home or reset mnemonic
keymap.back : left, c, backspace  # forward / backward keys to enable
keymap.forward : right, v  # left handed quick navigation
keymap.pan : p  # pan mnemonic
keymap.zoom : o  # zoom mnemonic
keymap.save : s, ctrl+s  # saving current figure
keymap.quit : ctrl+w, cmd+w  # close the current figure
keymap.grid : g  # switching on/off a grid in current axes
keymap.yscale : l  # toggle scaling of y-axes ('log'/'linear')
keymap.xscale : k, L  # toggle scaling of x-axes ('log'/'linear')
keymap.all_axes : a  # enable all axes

toolbar: toolbar2

###ANIMATION settings
animation.writer : ffmpeg  # MovieWriter 'backend' to use
animation.codec : mpeg4  # Codec to use for writing movie
animation.bitrate: -1  # Controls size/quality tradeoff for movie.
    # -1 implies let utility auto-determine
animation.frame_format: png  # Controls frame format used by temp files
animation.ffmpeg_path: ffmpeg  # Path to ffmpeg binary. Without full path
    # $PATH is searched
animation.ffmpeg_args:  # Additional arguments to pass to ffmpeg
animation.avconv_path: avconv  # Path to avconv binary. Without full path
    # $PATH is searched
animation.avconv_args:  # Additional arguments to pass to avconv
animation.mencoder_path: mencoder
# Path to mencoder binary. Without full path
# $PATH is searched
animation.mencoder_args:  # Additional arguments to pass to mencoder
animation.convert_path: convert  # Path to ImageMagick's convert binary.
   # On Windows use the full path since convert
   # is also the name of a system tool.

animation.convert_args:
animation.html: none
# Seaborn common parameters
# .15 = dark_gray
# .8 = light_gray
figure.facecolor: white
text.color: .15
axes.labelcolor: .15
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1
xtick.direction: out
ytick.direction: out
xtick.color: .15
ytick.color: .15
axes.axisbelow: True
image.cmap: Greys
font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, Bitstream Vera Sans, sans-serif
grid.linestyle: -
lines.solid_capstyle: round

# Seaborn white parameters
axes.grid: False
axes.facecolor: white
axes.edgecolor: .15
axes.linewidth: 1.25
grid.color: .8
xtick.major.size: 0
ytick.major.size: 0
xtick.minor.size: 0
ytick.minor.size: 0
# Set all colors to grayscale
# Note: strings of float values are interpreted by matplotlib as gray values.

lines.color: black
patch.facecolor: gray
patch.edgecolor: black

text.color: black
axes.facecolor: white
axes.edgecolor: black
axes.labelcolor: black
# black to light gray
axes.prop_cycle: cycler('color', ['0.00', '0.40', '0.60', '0.70'])

xtick.color: black
ytick.color: black

grid.color: black

figure.facecolor: 0.75
figure.edgecolor: white

image.cmap: gray

savefig.facecolor: white
savefig.edgecolor: white
# Seaborn common parameters
# .15 = dark_gray
# .8 = light_gray
figure.facecolor: white
text.color: .15
axes.labelcolor: .15
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1
xtick.direction: out
ytick.direction: out
xtick.color: .15
ytick.color: .15
axes.axisbelow: True
image.cmap: Greys
font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, Bitstream Vera Sans, sans-serif
grid.linestyle: -
lines.solid_capstyle: round

# Seaborn dark parameters
axes.grid: False
axes.facecolor: EAEAF2
axes.edgecolor: white
axes.linewidth: 0
grid.color: white
xtick.major.size: 0
ytick.major.size: 0
xtick.minor.size: 0
ytick.minor.size: 0
# Seaborn common parameters
# .15 = dark_gray
# .8 = light_gray
figure.facecolor: white
text.color: .15
axes.labelcolor: .15
legend.frameon: False
legend.numpoints: 1
legend.scatterpoints: 1
xtick.direction: out
ytick.direction: out
xtick.color: .15
ytick.color: .15
axes.axisbelow: True
image.cmap: Greys
font.family: sans-serif
font.sans-serif: Arial, Liberation Sans, Bitstream Vera Sans, sans-serif
grid.linestyle: -
lines.solid_capstyle: round

# Seaborn darkgrid parameters
axes.grid: True
axes.facecolor: EAEAF2
axes.edgecolor: white
axes.linewidth: 0
grid.color: white
xtick.major.size: 0
ytick.major.size: 0
xtick.minor.size: 0
ytick.minor.size: 0
# Seaborn dark palette
axes.prop_cycle: cycler('color', ['001C7F', '017517', '8C0900', '7600A1', 'B8860B', '006374'])
# Seaborn muted palette
axes.prop_cycle: cycler('color', ['4878CF', '6ACC65', 'D65F5F', 'B47CC7', 'C4AD66', '77BEDB'])
# Set black background default line colors to white.
lines.color: white
patch.edgecolor: white
text.color: white

axes.facecolor: black
axes.edgecolor: white
axes.labelcolor: white
axes.prop_cycle: cycler('color', ['8dd3c7', 'effb3', 'bfbbd9', 'fa8174', '81b1d2', 'fda462', 'b3de69', 'bc82bd', 'cceebe4', 'ffed6f'])

xtick.color: white
ytick.color: white
grid.color: white

figure.facecolor: black
figure.edgecolor: black

savefig.facecolor: black
savefig.edgecolor: black
# Seaborn poster context
figure.figsize: 12.8, 8.8
axes.labelsize: 17.6
axes.titlesize: 19.2
xtick.labelsize: 16
ytick.labelsize: 16
legend.fontsize: 16
grid.linewidth: 1.6
lines.linewidth: 2.8
patch.linewidth: 0.48
lines.markersize: 11.2
lines.markeredgewidth: 0

xtick.major.width: 1.6
xtick.major.width: 1.6
xtick.minor.width: 0.8
ytick.minor.width: 0.8

xtick.major.pad: 11.2
xtick.major.pad: 11.2
# from http://www.huyng.com/posts/sane-color-scheme-for-matplotlib/

patch.linewidth: 0.5
patch.facecolor: 348ABD  # blue
patch.edgecolor: EEEEEE
patch.antialiased: True

font.size: 10.0

axes.facecolor: E5E5E5
axes.edgecolor: white
axes.linewidth: 1
axes.grid: True
axes.titlesize: x-large
axes.labelsizer: large
axes.labelcolor: 555555
axes.axisbelow: True       # grid/ticks are below elements (e.g., lines, text)
axes.prop_cycle: cycler('color', ['E24A33', '348ABD', '988ED5', '777777', 'FBC15E', '8EBA42', 'FFB5B8'])
    # E24A33 : red
    # 348ABD : blue
    # 988ED5 : purple
    # 777777 : gray
    # FBC15E : yellow
    # 8EBA42 : green
    # FFB5B8 : pink

xtick.color: 555555
xtick.direction: out

ytick.color: 555555
ytick.direction: out

grid.color: white
grid.linestyle: -  # solid line

figure.facecolor: white
figure.edgecolor: 0.50

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This is the sample data needed for some of matplotlib's examples and docs. See matplotlib.cbook.get_sample_data for more info.

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Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10

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Open Source Used in Cisco Tetration Analytics, Release 1.103.1.10

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Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10
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Open Source Used in Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10

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3956
Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10

3960
Open Source Used in Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10

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4002
This directory contains font metrics for the 14 PDF Core Fonts, downloaded from Adobe. The title and this paragraph were added by Matplotlib developers. The download URL was <http://partners.adobe.com/public/developer/font/index.html>.

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StdVW 140
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C 33 ; WX 333 ; N exclaim ; B 90 0 244 718 ;
C 34 ; WX 474 ; N quotedbl ; B 98 447 376 718 ;
C 35 ; WX 556 ; N numbersign ; B 18 0 538 698 ;
C 36 ; WX 556 ; N dollar ; B 30 -115 523 775 ;
C 37 ; WX 889 ; N percent ; B 28 -19 861 710 ;
C 38 ; WX 722 ; N ampersand ; B 54 -19 701 718 ;
C 39 ; WX 278 ; N quotation ; B 69 445 209 718 ;
C 40 ; WX 333 ; N parenleft ; B 35 -208 314 734 ;
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C 42 ; WX 389 ; N asterisk ; B 27 387 362 718 ;
C 43 ; WX 584 ; N plus ; B 40 0 544 506 ;
C 44 ; WX 278 ; N comma ; B 64 -168 214 146 ;
C 45 ; WX 333 ; N hyphen ; B 27 215 306 345 ;
C 46 ; WX 278 ; N period ; B 64 0 214 146 ;
C 47 ; WX 278 ; N slash ; B -33 -19 311 737 ;
C 48 ; WX 556 ; N zero ; B 32 -19 524 710 ;
C 49 ; WX 556 ; N one ; B 69 0 378 710 ;
C 50 ; WX 556 ; N two ; B 26 0 511 710 ;
C 51 ; WX 556 ; N three ; B 27 -19 516 710 ;
C 52 ; WX 556 ; N four ; B 27 0 526 710 ;
C 53 ; WX 556 ; N five ; B 27 -19 516 698 ;
C 54 ; WX 556 ; N six ; B 31 -19 520 710 ;
C 55 ; WX 556 ; N seven ; B 25 0 528 698 ;
C 56 ; WX 556 ; N eight ; B 32 -19 524 710 ;
C 57 ; WX 556 ; N nine ; B 30 -19 522 710 ;
C 58 ; WX 333 ; N colon ; B 92 0 242 512 ;
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C 64 ; WX 975 ; N at ; B 118 -19 856 737 ;
C 65 ; WX 722 ; N A ; B 20 0 702 718 ;
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Open Source Used in Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10

4039
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KPX B A -25

KPX D period 0
KPX D comma 0
KPX D Y -50
KPX D W -40
KPX D V -50
KPX D A -25

KPX F r -50
KPX F period -129
KPX F o -70
KPX F i -40
KPX F e -100
KPX F comma -129
KPX F a -95
KPX F A -100

KPX G period 0
KPX G comma 0

KPX J u -40
KPX J period -10
KPX J o -40
KPX J e -40
KPX J comma -10
Open Source Used in Cisco Tetration Analytics, Release 1.103.1.10
4168
Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10

4174
KPX D V -18

KPX F r -10
KPX F period -125
KPX F o -55
KPX F i -10
KPX F e -55
KPX F comma -125
KPX F a -65
KPX F A -50

KPX G period -37
KPX G comma -37

KPX J u -25
KPX J period -74
KPX J o -25
KPX J e -25
KPX J comma -74
KPX J a -25
KPX J A -18

KPX K y -25
KPX K o 10
KPX K e 10

KPX L y -25
KPX L quoteright -100
KPX L quotedblright -100
KPX L Y -74
KPX L W -74
KPX L V -91
KPX L T -75

KPX N period -55
KPX N comma -55

KPX O period -37
KPX O comma -37
KPX O Y -18
KPX O V -18
KPX O T 10

KPX P period -125
KPX P o -37
KPX P e -37
KPX P comma -125
KPX P a -37
KPX P A -55

KPX Q period -25
KPX Q comma -25

KPX S period -37
KPX S comma -37

KPX T semicolon -37
KPX T period -125
KPX T o -55
KPX T hyphen -100
KPX T e -55
KPX T comma -125
KPX T colon -37
KPX T a -55
KPX T O 10
KPX T A -18

KPX U period -100
KPX U comma -100
KPX U A -30

KPX V u -75
KPX V semicolon -75
KPX V period -125
KPX V o -75
KPX V i -18
KPX V hyphen -100
KPX V e -75
KPX V comma -125
KPX V colon -75
KPX V a -85
KPX V O -18
KPX V A -74

KPX W y -55
KPX W u -55
KPX W semicolon -100
KPX W period -125
KPX W o -60
KPX W i -18
KPX W hyphen -100
KPX W e -60
KPX W comma -125
KPX W colon -100
KPX W a -75
KPX W A -50
Open Source Used in Cisco Tetration Analytics, Release 1.103.1.10

4184
KPX D A -50
KPX F period -160
KPX Fe -20
KPX F comma -180
KPX Fa -20
KPX F A -75
KPX G period -20
KPX G comma -20
KPX G Y -20
KPX J period -15
KPX J a -20
KPX J A -30
KPX K o -15
KPX K e -20
KPX K O -20
KPX L y -23
KPX L quoteright -130
KPX L quotedblright -130
KPX L Y -91
KPX L W -67
KPX L V -113
KPX L T -46
KPX O period -30
KPX O comma -30
KPX O Y -30
KPX O X -30
KPX O W -20
KPX O V -60
KPX O T -30
KPX O A -60
KPX P period -300
KPX P o -60
KPX P e -20
KPX P comma -280
KPX P a -20
KPX P A -114
KPX Q comma 20
KPX R Y -10
KPX R W 10
KPX R V -10
KPX R T 6

KPX S comma 20

KPX T y -50
KPX T w -55
KPX T u -46
KPX T semicolon -29
KPX T r -30
KPX T period -91
KPX T o -70
KPX T i 10
KPX T hyphen -75
KPX T e -49
KPX T comma -82
KPX T colon -15
KPX T a -90
KPX T O -30
KPX T A -45

KPX U period -20
KPX U comma -20
KPX U A -40

KPX V u -40
KPX V semicolon -33
KPX V period -165
KPX V o -101
KPX V i -5
KPX V hyphen -75
KPX V e -101
KPX V comma -145
KPX V colon -18
KPX V a -104
KPX V O -60
KPX V G -20
KPX V A -102

KPX W y -2
KPX W u -30
KPX W semicolon -33
KPX W period -106
KPX W o -46
KPX W i 6
KPX W hyphen -35
KPX W e -47
KPX W comma -106
KPX W colon -15
KPX W a -50
KPX W O -20
KPX W A -58

KPX Y u -52
KPX Y semicolon -23
KPX Y period -175
KPX Y o -89
KPX Y hyphen -85
KPX Y e -89
KPX Y comma -145
KPX Y colon -10
KPX Y a -93
KPX Y O -30
KPX Y A -92

KPX a p 20
KPX a b 20

KPX h y -20
KPX h v -20

KPX c y -20
KPX c k -15

KPX comma space -110
KPX comma quoteright -120
KPX comma quotedblright -120

KPX e y -20
KPX e w -20
KPX e v -20

KPX f period -50
KPX f o -40
KPX f l -30
KPX f i -34
KPX f f -60
KPX f e -20
KPX f dotlessi -34
KPX f comma -50
KPX f a -40

KPX g a -15

KPX h y -30
KPX k y -5
KPX k e -15

KPX m y -20
KPX m u -20
KPX m a -20

KPX n y -15
KPX n v -20

KPX o y -20
KPX o x -15
KPX o w -20
KPX o v -30

KPX p y -20

KPX period space -110
KPX period quoteright -120
KPX period quotedblright -120

KPX quotedblleft quoteleft -35
KPX quotedblleft A -100

KPX quotedblright space -110

KPX quoteleft quoteleft -203
KPX quoteleft A -100

KPX quoteright v -30
KPX quoteright t 10
KPX quoteright space -110
KPX quoteright s -15
KPX quoteright r -20
KPX quoteright quoteright -203
KPX quoteright quotedblright -35
KPX quoteright d -110

KPX r y 40
KPX r v 40
KPX r u 20
KPX r t 20
KPX r s 20
KPX r q -8
KPX r period -73
KPX r p 20
KPX r o -20
KPX r n 21
Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10
4196
Open Source Used in Cisco Tetration Analytics, Release 1.103.1.10
4200
Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10

4201
KPX D period -50
KPX D comma -50
KPX D Y -18
KPX D W -18
KPX D V -18

KPX F r -55
KPX F period -125
KPX F o -55
KPX F i -10
KPX F e -55
KPX F comma -125
KPX F a -55
KPX F A -35

KPX G period -50
KPX G comma -50

KPX J u -18
KPX J period -100
KPX J o -37
KPX J e -37
KPX J comma -100
KPX J a -37
KPX J A -18

KPX L y -50
KPX L quoterright -125
KPX L quotedblright -125
KPX L Y -100
KPX L W -100
KPX L V -100
KPX L T -100

KPX N period -60
KPX N comma -60

KPX O period -50
KPX O comma -50
KPX O Y -18
KPX O X -18
KPX O V -18
KPX O T 18

KPX P period -125
KPX P o -55
KPX P e -55
KPX g period -50
KPX g comma -50

KPX l y -10

KPX o period -50
KPX o comma -50

KPX p period -50
KPX p comma -50

KPX period space -37
KPX period quoteright -37
KPX period quotedblright -37

KPX quotedblleft A -75

KPX quotedblright space -37

KPX quoteleft quoteleft -37
KPX quoteleft A -75

KPX quoteright s -25
KPX quoteright quoteright -37
KPX quoteright d -37

KPX r semicolon -25
KPX r s -10
KPX r period -125
KPX r k -18
KPX r hyphen -75
KPX r comma -125
KPX r colon -25

KPX s period -50
KPX s comma -50

KPX semicolon space -37

KPX space quoteleft -37
KPX space quotedblleft -37
KPX space Y -37
KPX space W -37
KPX space V -37
KPX space T -37
KPX space A -37
KPX v period -75
KPX v comma -75

KPX w period -75
KPX w comma -75

KPX y period -75
KPX y comma -75
EndKernPairs
EndKernData
StartComposites 56
CC Aacute 2 ; PCC A 0 0 ; PCC acute 246 256 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 246 256 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 231 256 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 246 256 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 216 246 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 231 256 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 255 256 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 255 256 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 255 256 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 255 256 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 97 256 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 97 256 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 97 256 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave 97 256 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 301 256 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 283 256 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 283 256 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 283 256 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 283 256 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 283 256 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 227 256 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 301 256 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 301 256 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 301 256 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 301 256 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 121 0 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 121 0 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 227 256 ;
CC Yacute 2 ; PCC a 0 0 ; PCC acute 121 0 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 121 0 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 121 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 121 0 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 121 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 121 0 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 56 0 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 56 0 ;
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 56 0 ;
KPX F A -55

KPX L y -74
KPX L space -18
KPX L quoterright -74
KPX L Y -92
KPX L W -92
KPX L V -92
KPX L T -74

KPX P period -129
KPX P comma -129
KPX P A -74

KPX R y -30
KPX R Y -55
KPX R W -37
KPX R V -74
KPX R T -55

KPX T y -90
KPX T w -90
KPX T u -129
KPX T semicolon -74
KPX T s -111
KPX T r -111
KPX T period -92
KPX T o -111
KPX T i -55
KPX T hyphen -92
KPX T e -111
KPX T comma -92
KPX T colon -74
KPX T c -129
KPX T a -111
KPX T A -92

KPX V y -90
KPX V u -92
KPX V semicolon -74
KPX V r -111
KPX V period -129
KPX V o -111
KPX V i -55
KPX V hyphen -92
KPX V e -111
KPX V comma -129
KPX V colon -74
KPX v period -111
KPX v comma -111

KPX w period -92
KPX w comma -92

KPX y period -92
KPX y comma -92
EndKernPairs
EndKernData
StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 223 224 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 211 224 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 223 224 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 215 224 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 223 224 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 223 224 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 195 0 ;
CC Ecute 2 ; PCC E 0 0 ; PCC acute 139 224 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 139 224 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 139 224 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 139 224 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 28 224 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 28 224 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 28 224 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave 28 224 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 250 224 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 250 224 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 250 224 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 250 224 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 250 224 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 250 224 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 139 224 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 235 224 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 235 224 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 235 224 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 235 224 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 211 224 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 199 224 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 167 224 ;
CC cacute 2 ; PCC a 0 0 ; PCC acute 84 20 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 84 20 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 84 20 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 84 20 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 84 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 84 12 ;
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 56 0 ;
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4220
KPX d w -15
KPX d v -15
KPX d d -10

KPX e y -15
KPX e x -15
KPX e w -15
KPX e v -15
KPX e period 20
KPX e comma 10

KPX f quoteright 30
KPX f quotedblright 30
KPX f period -10
KPX f o -20
KPX f e -10
KPX f comma -10

KPX g g -10
KPX g e 10

KPX h y -20

KPX k o -15

KPX l y -15
KPX l w -15

KPX m y -30
KPX m u -20

KPX n y -20
KPX n v -40
KPX n u -10

KPX o y -20
KPX o x -30
KPX o w -15
KPX o v -20

KPX p y -15

KPX period space -40
KPX period quoteright -120
KPX period quotedblright -120

KPX quotedblright space -80
KPX y comma -80
KPX y a -30

KPX z e 10
EndKernPairs
EndKernData
StartComposites 58
  CC Aacute 2 ; PCC A 0 0 ; PCC acute 192 186 ;
  CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 192 186 ;
  CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 192 186 ;
  CC Agrave 2 ; PCC A 0 0 ; PCC grave 192 186 ;
  CC Aring 2 ; PCC A 0 0 ; PCC ring 192 186 ;
  CC Atilde 2 ; PCC A 0 0 ; PCC tilde 192 186 ;
  CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 176 0 ;
  CC Eacute 2 ; PCC E 0 0 ; PCC acute 169 186 ;
  CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 169 186 ;
  CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 169 186 ;
  CC Egrave 2 ; PCC E 0 0 ; PCC grave 169 186 ;
  CC Iacute 2 ; PCC I 0 0 ; PCC acute 10 186 ;
  CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 10 186 ;
  CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 10 186 ;
  CC Igrave 2 ; PCC I 0 0 ; PCC grave 10 186 ;
  CC Oacute 2 ; PCC O 0 0 ; PCC acute 215 186 ;
  CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 215 186 ;
  CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 215 186 ;
  CC Ograve 2 ; PCC O 0 0 ; PCC grave 215 186 ;
  CC Otilde 2 ; PCC O 0 0 ; PCC tilde 215 186 ;
  CC Scaron 2 ; PCC S 0 0 ; PCC caron 169 186 ;
  CC Uacute 2 ; PCC U 0 0 ; PCC acute 192 186 ;
  CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 192 186 ;
  CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 192 186 ;
  CC Ugrave 2 ; PCC U 0 0 ; PCC grave 192 186 ;
  CC Yacute 2 ; PCC Y 0 0 ; PCC acute 146 186 ;
  CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 146 186 ;
  CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 146 186 ;
  CC aacute 2 ; PCC a 0 0 ; PCC acute 92 0 ;
  CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 92 0 ;
  CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 92 0 ;
  CC agrave 2 ; PCC a 0 0 ; PCC grave 92 0 ;
  CC aring 2 ; PCC a 0 0 ; PCC ring 92 0 ;
  CC atilde 2 ; PCC a 0 0 ; PCC tilde 92 0 ;
  CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 108 0 ;
  CC eacute 2 ; PCC e 0 0 ; PCC acute 92 0 ;
  CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 92 0 ;
  CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 92 0 ;
  CC egrave 2 ; PCC e 0 0 ; PCC grave 92 0 ;
  CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -22 0 ;
Open Source Used in Cisco Tetration Analytics, Release 1.103.1.10

4232
Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10

4233
Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10
4236
KPx D e -5
KPx D comma -40
KPx D a -15
KPx D Y -60
KPx D W -40
KPx D V -40

KPx E y -30
KPx E w -24
KPx E v -24
KPx E u -12
KPx E t -18
KPx E s -12
KPx E r -4
KPx E q -6
KPx E period 10
KPx E p -18
KPx E o -6
KPx E n -4
KPx E m -4
KPx E j -6
KPx E i -6
KPx E g -6
KPx E e -6
KPx E d -6
KPx E comma 10
KPx E c -6
KPx E b -5
KPx E a -4
KPx E y -6
KPx E W -6
KPx E V -6

KPx F y -18
KPx F u -12
KPx F r -36
KPx F quotedright 20
KPx F quotedblright 20
KPx F period -150
KPx F o -36
KPx F l -12
KPx F i -22
KPx F e -36
KPx F comma -150
KPx F a -48
KPx F A -60

KPx G y -12
KPX P e -36
KPX P comma -200
KPX P a -36
KPX P I -20
KPX P H -20
KPX P E -20
KPX P A -85
KPX Q u -6
KPX Q a -18
KPX Q Y -50
KPX Q X -40
KPX Q W -35
KPX Q V -35
KPX Q U -25
KPX Q T -40
KPX Q A -30
KPX R y -20
KPX R u -12
KPX R t -25
KPX R quoteright -10
KPX R quotedblright -10
KPX R o -12
KPX R e -18
KPX R a -6
KPX R Y -32
KPX R X 20
KPX R W -18
KPX R V -26
KPX R U -30
KPX R T -20
KPX R Q -10
KPX R O -10
KPX R G -10
KPX R C -10
KPX S y -35
KPX S w -30
KPX S v -40
KPX S u -24
KPX S t -24
KPX S r -10
KPX S quoteright -15
KPX S quotedblright -15
KPX S p -24
KPX S n -24
KPX S m -24
KPX quoteleft A -122

KPX quoteright v -20
KPX quoteright t -50
KPX quoteright space -40
KPX quoteright s -70
KPX quoteright r -42
KPX quoteright quoteright -30
KPX quoteright period -100
KPX quoteright m -42
KPX quoteright l -6
KPX quoteright d -100
KPX quoteright comma -100

KPX r z 20
KPX r y 18
KPX r x 12
KPX r w 30
KPX r v 30
KPX r u 8
KPX r t 8
KPX r semicolon 20
KPX r quoteright -20
KPX r quotedblright -10
KPX r q -6
KPX r period -60
KPX r o -6
KPX r n 8
KPX r m 8
KPX r l -10
KPX r k -10
KPX r i 8
KPX r hyphen -60
KPX r h -10
KPX r g 5
KPX r f 8
KPX r emdash -20
KPX r e -20
KPX r d -20
KPX r comma -80
KPX r colon 20
KPX r c -20

KPX s quoteright -40
KPX s quotedblright -40

KPX semicolon space -20
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4256
KPX W o -100
KPX W i -36
KPX W hyphen -22
KPX W e -100
KPX W comma -201
KPX W colon -86
KPX W a -100
KPX W A -77

KPX Y v 26
KPX Y u -1
KPX Y semicolon -4
KPX Y q -43
KPX Y period -113
KPX Y o -41
KPX Y i 20
KPX Y hyphen -20
KPX Y e -46
KPX Y comma -106
KPX Y colon -9
KPX Y a -45
KPX Y A -30

KPX f f 10

KPX r q -3
KPX r period -120
KPX r o -1
KPX r n 39
KPX r m 39
KPX r hyphen -20
KPX r h -35
KPX r g -23
KPX r f 42
KPX r e -6
KPX r d -3
KPX r comma -113
KPX r c -5
EndKernPairs
EndKernData
StartComposites 56
CC Aacute 2 ; PCC A 0 0 ; PCC acute 190 166 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 120 166 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 100 166 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 170 166 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 200 166 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 120 166 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 190 166 ;
Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10

4260
Comment The following are bogus kern pairs for TeX positioning of accents

StartKernData
KPX Gamma slash -55.556
KPX Gamma comma -111.111
KPX Gamma period -111.111
KPX Gamma tie 83.333
KPX Delta tie 166.667
KPX Theta tie 83.333
KPX Lambda tie 166.667
KPX Xi tie 83.333
KPX Pi slash -55.556
KPX Pi comma -55.556
KPX Pi period -55.556
KPX Pi tie 55.556
KPX Sigma tie 83.333
KPX Upsilon slash -55.556
KPX Upsilon comma -111.111
KPX Upsilon period -111.111
KPX Upsilon tie 55.556
KPX Phi tie 83.333
KPX Psi slash -55.556
KPX Psi comma -55.556
KPX Psi period -55.556
KPX Psi tie 55.556
KPX Omega tie 83.333
KPX alpha tie 27.778
KPX beta tie 83.333
KPX delta comma -55.556
KPX delta period -55.556
KPX delta tie 55.556
KPX epsilon1 tie 55.556
KPX zeta tie 83.333
KPX eta tie 55.556
KPX theta tie 83.333
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4266
Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10
Open Source Used in Cisco Tetration Analytics, Release 1.103.1.10

4271
KPX m u -10
KPX n y -15
KPX n v -20
KPX n u -10
KPX o y -30
KPX o x -30
KPX o w -15
KPX o v -15
KPX o period -40
KPX o comma -40
KPX oslash z -55
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KPX oslash x -85
KPX oslash w -70
KPX oslash v -70
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KPX oslash t -55
KPX oslash s -55
KPX oslash r -55
KPX oslash q -55
KPX oslash period -95
KPX oslash p -55
KPX oslash o -55
KPX oslash n -55
KPX oslash m -55
KPX oslash l -55
KPX oslash k -55
KPX oslash j -55
KPX oslash i -55
KPX oslash h -55
KPX oslash g -55
KPX oslash f -55
KPX oslash e -55
KPX oslash d -55
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KPX oslash c -55
KPX oslash b -55
KPX oslash a -55
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KPX w a -15

KPX x e -30

KPX y period -100
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KPX y comma -100
KPX y a -20

KPX z o -15
KPX z e -15
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EndKernData
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CC Aring 2 ; PCC A 0 0 ; PCC ring 167 175 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 167 195 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 195 0 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 167 195 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 167 195 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 167 195 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 167 195 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute -27 195 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -27 195 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -27 195 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave -27 195 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 205 195 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 223 195 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 223 195 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 223 195 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 223 195 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 223 195 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 167 195 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 195 195 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 195 195 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 195 195 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 195 195 ;
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CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 167 195 ;
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CC aacute 2 ; PCC a 0 0 ; PCC acute 112 0 ;
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KPX D A -10

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KPX F comma -30

KPX G period -20
KPX G comma -10

KPX J period -20
KPX J comma -10

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KPX K o -20
KPX K e -20

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KPX Q U -10

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KPX T e -20
KPX T a -20
KPX T O 30
KPX T A 10

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KPX c k -10

KPX comma quoteright -70
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KPX quoterright quoterright -115
KPX quoterright quotedblright 20
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KPX s period -20
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KPX v period -30
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KPX w period -30
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KPX w comma -20

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EndKernData
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CC Aacute 2 ; PCC A 0 0 ; PCC acute 280 162 ;
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CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 240 152 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 250 162 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 260 172 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 180 152 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 230 162 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 180 172 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 170 152 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 220 162 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 110 162 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 60 172 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 50 152 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave 100 162 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 210 142 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 160 162 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 130 172 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 120 152 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 150 162 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 90 142 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 120 172 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 310 162 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 260 172 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 260 152 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 270 162 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 220 162 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 170 152 ;
Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10 4293
Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10

C 119; WX 686; N omega; B 42-17 684 500;
C 120; WX 493; N xi; B 27-224 469 766;
C 121; WX 686; N psi; B 12-228 701 500;
C 122; WX 494; N zeta; B 60-225 467 756;
C 123; WX 480; N braceleft; B 58-183 397 673;
C 124; WX 200; N bar; B 65-177 135 673;
C 125; WX 480; N braceright; B 79-183 418 673;
C 126; WX 549; N similar; B 17 203 529 307;
C 161; WX 620; N Upsilon1; B -2 0 610 685;
C 162; WX 247; N minute; B 27 459 228 735;
C 163; WX 549; N lessequal; B 29 0 526 639;
C 164; WX 167; N fraction; B -180 -12 340 677;
C 165; WX 713; N infinity; B 26 124 688 404;
C 166; WX 500; N florin; B 2-193 494 686;
C 167; WX 753; N club; B 86-26 660 533;
C 168; WX 753; N diamond; B 142-36 600 550;
C 169; WX 753; N heart; B 117-33 631 532;
C 170; WX 753; N spade; B 113-36 629 548;
C 171; WX 1042; N arrowboth; B 24-15 1024 511;
C 172; WX 987; N arrowleft; B 32-15 942 511;
C 173; WX 603; N arrowup; B 45 0 571 910;
C 174; WX 987; N arrowright; B 49-15 959 511;
C 175; WX 603; N arrowdown; B 45-22 571 888;
C 176; WX 400; N degree; B 50 385 350 685;
C 177; WX 549; N plusminus; B 10 0 539 645;
C 178; WX 411; N second; B 20 459 413 737;
C 179; WX 549; N greaterequal; B 29 0 526 639;
C 180; WX 549; N multiply; B 17 8 533 524;
C 181; WX 713; N proportional; B 27 123 639 404;
C 182; WX 494; N partialdiff; B 26-20 462 746;
C 183; WX 460; N bullet; B 50 113 410 473;
C 184; WX 549; N divide; B 10 71 536 456;
C 185; WX 549; N notequal; B 15-25 540 549;
C 186; WX 549; N equivalence; B 14 82 538 443;
C 187; WX 549; N approxequal; B 14 135 527 394;
C 188; WX 1000; N ellipsis; B 111-17 889 95;
C 189; WX 603; N arrowvertex; B 280-120 336 1010;
C 190; WX 1000; N arrowhorizex; B -60 220 1050 276;
C 191; WX 658; N carriagereturn; B 15-16 602 629;
C 192; WX 823; N aleph; B 175-18 661 658;
C 193; WX 686; N Fraktur; B 10-53 578 740;
C 194; WX 795; N Rfraktur; B 26-15 759 734;
C 195; WX 987; N Weierstrass; B 159-211 870 573;
C 196; WX 768; N circlemultiply; B 43-17 733 673;
C 197; WX 768; N cirlceplus; B 43-15 733 675;
C 198; WX 823; N emptyset; B 39-24 781 719;
C 199; WX 768; N intersection; B 40 0 732 509;
C 200; WX 768; N union; B 40-17 732 492;
Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10

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Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10

4306
StartKernPairs 712

KPX A z 6
KPX A y -50
KPX A w -45
KPX A v -60
KPX A u -25
KPX A t -12
KPX A quotright -120
KPX A quotedblright -120
KPX A q -6
KPX A p -18
KPX A o -12
KPX A e -6
KPX A d -12
KPX A c -12
KPX A b -12
KPX A Y -70
KPX A X -6
KPX A W -58
KPX A V -72
KPX A U -50
KPX A T -70
KPX A Q -24
KPX A O -24
KPX A G -24
KPX A C -24

KPX B y -18
KPX B u -12
KPX B r -12
KPX B period -30
KPX B o -6
KPX B l -12
KPX B i -12
KPX B h -12
KPX B e -6
KPX B comma -20
KPX B a -12
KPX B W -25
KPX B V -20
KPX B U -20
KPX B T -20

KPX C z -18
KPX C y -24
KPX C u -18
KPX C r -6
KPX Y period -90
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KPX Y emdash -20
KPX Y e -90
KPX Y d -90
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KPX Y braceright 64
KPX Y a -68
KPX Y Y 12
KPX Y X 12
KPX Y W 12
KPX Y V 12
KPX Y T 12
KPX Y Q -18
KPX Y O -18
KPX Y G -18
KPX Y C -18
KPX Y A -32

KPX Z y -36
KPX Z w -36
KPX Z u -6
KPX Z o -12
KPX Z i -12
KPX Z e -6
KPX Z a -6
KPX Z Q -20
KPX Z O -20
KPX Z G -30
KPX Z C -20
KPX Z A 20

KPX a quotereight -70
KPX a quotedblright -80

KPX b y -25
KPX b w -30
KPX b v -35
KPX b quotereight -70
KPX b quotedblright -70
KPX b period -40
KPX b comma -40
The following are bogus kern pairs for TeX positioning of accents

StartKernData

StartKernPairs 26

KPX A prime 194.444
KPX B prime 138.889
KPX C prime 138.889
KPX D prime 83.333
KPX E prime 111.111
KPX F'prime 111.111
KPX G'prime 111.111
KPX H'prime 111.111
KPX I'prime 27.778
KPX J'prime 166.667
KPX K'prime 55.556
KPX L'prime 138.889
KPX M'prime 138.889
KPX N'prime 83.333
KPX O'prime 111.111
KPX P'prime 83.333
KPX Q'prime 111.111
KPX R'prime 83.333
KPX S'prime 138.889
KPX T'prime 27.778
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KPX Z'prime 138.889
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Comment VMusage 30458 37350
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FullName Times Bold
FamilyName Times
Weight Bold
ItalicAngle 0
IsFixedPitch false
FontBBox -168 -218 1000 935
UnderlinePosition -100
UnderlineThickness 50
Version 001.007
Notice Copyright (c) 1985, 1987, 1989, 1990 Adobe Systems Incorporated. All Rights Reserved.Times is a trademark of Linotype AG and/or its subsidiaries.
EncodingScheme AdobeStandardEncoding
CapHeight 676
XHeight 461
Ascender 676
Descender -205
StartCharMetrics 228
C 32 ; WX 250 ; N space ; B 0 0 0 0 ;
Open Source Used in Cisco Tetration Analytics, Release 1.103.1.10

KPX A y -74
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KPX A v -100
KPX A u -50
KPX A quoteright -74
KPX A quotedblright 0
KPX A p -25
KPX A Y -100
KPX A W -130
KPX A V -145
KPX A U -50
KPX A T -95
KPX A Q -45
KPX A O -45
KPX A G -55
KPX A C -55

KPX B period 0
KPX B comma 0
KPX B U -10
KPX B A -30

KPX D period -20
KPX D comma 0
KPX D Y -40
KPX D W -40
KPX D V -40
KPX D A -35

KPX Fr 0
KPX F period -110
KPX F o -25
KPX F i 0
KPX F e -25
KPX F comma -92
KPX F a -25
KPX F A -90

KPX G period 0
KPX G comma 0

KPX J u -15
KPX J period -20
KPX J o -15
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KPX J A -30

KPX K y -45
KPX K u -15
KPX K o -25
KPX K e -25
KPX K O -30

KPX L y -55
KPX L quoteright -110
Open Source Used in Cisco Tetration Analytics, Release 1.103.1.10
Open Source Used in Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10
KPX P h -15
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KPX P comma -220
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KPX P H -30
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KPX Q T -36
KPX Q A -18

KPX R y -14
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KPX R hyphen -20
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KPX R W -30
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KPX R O -10
KPX R G -10
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KPX R A -6

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KPX V comma -120
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4370
Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10

4372
Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10
4376
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4398
Open Source Used in Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10
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KPX T semicolon -29
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KPX G comma -20
KPX G Y -20

KPX J period -15
KPX J a -20
KPX J A -30

KPX K o -15
KPX K e -20
KPX K O -20

KPX L y -23
KPX L quoteright -130
KPX L quotedblright -130
KPX L Y -91
KPX L W -67
KPX L V -113
KPX L T -46

KPX O period -30
KPX O comma -30
KPX O Y -30
KPX O X -30
KPX O W -20
KPX O V -60
KPX O T -30
KPX O A -60

KPX P period -300
KPX P o -60
KPX P e -20
KPX P comma -280
KPX P a -20
KPX P A -114

KPX Q comma 20

KPX R Y -10
KPX R W 10
KPX R V -10
KPX R T 6
KPX S comma 20

KPX T y -50
KPX T w -55
KPX T u -46
KPX T semicolon -29
KPX T r -30
KPX T period -91
KPX T o -70
KPX T i 10
KPX T hyphen -75
KPX T e -49
KPX T comma -82
KPX T colon -15
KPX T a -90
KPX T O -30
KPX T A -45

KPX U period -20
KPX U comma -20
KPX U A -40

KPX V u -40
KPX V semicolon -33
KPX V period -165
KPX V o -101
KPX V i -5
KPX V hyphen -75
KPX V e -101
KPX V comma -145
KPX V colon -18
KPX V a -104
KPX V O -60
KPX V G -20
KPX V A -102

KPX W y -2
KPX W u -30
KPX W semicolon -33
KPX W period -106
KPX W o -46
KPX W i 6
KPX W hyphen -35
KPX W e -47
KPX W comma -106
KPX W colon -15
KPX W a -50
KPX W O -20
KPX W A -58

KPX Y u -52
KPX Y semicolon -23
KPX Y period -175
KPX Y o -89
KPX Y hyphen -85
KPX Y e -89
KPX Y comma -145
KPX Y colon -10
KPX Y a -93
KPX Y O -30
KPX Y A -92

KPX a p 20
KPX a b 20

KPX b y -20
KPX b v -20

KPX c y -20
KPX c k -15

KPX comma space -110
KPX comma quoteright -120
KPX comma quotedblright -120

KPX e y -20
KPX e w -20
KPX e v -20

KPX f period -50
KPX f o -40
KPX f l -30
KPX f i -34
KPX f f -60
KPX f e -20
KPX f dotlessi -34
KPX f comma -50
KPX f a -40

KPX g a -15

KPX h y -30

KPX k y -5
KPX k e -15
C 187 ; WX 788 ; N a135 ; B 35 -14 754 705 ;
C 188 ; WX 788 ; N a136 ; B 35 -14 754 705 ;
C 189 ; WX 788 ; N a137 ; B 35 -14 754 705 ;
C 190 ; WX 788 ; N a138 ; B 35 -14 754 705 ;
C 191 ; WX 788 ; N a139 ; B 35 -14 754 705 ;
C 192 ; WX 788 ; N a140 ; B 35 -14 754 705 ;
C 193 ; WX 788 ; N a141 ; B 35 -14 754 705 ;
C 194 ; WX 788 ; N a142 ; B 35 -14 754 705 ;
C 195 ; WX 788 ; N a143 ; B 35 -14 754 705 ;
C 196 ; WX 788 ; N a144 ; B 35 -14 754 705 ;
C 197 ; WX 788 ; N a145 ; B 35 -14 754 705 ;
C 198 ; WX 788 ; N a146 ; B 35 -14 754 705 ;
C 199 ; WX 788 ; N a147 ; B 35 -14 754 705 ;
C 200 ; WX 788 ; N a148 ; B 35 -14 754 705 ;
C 201 ; WX 788 ; N a149 ; B 35 -14 754 705 ;
C 202 ; WX 788 ; N a150 ; B 35 -14 754 705 ;
C 203 ; WX 788 ; N a151 ; B 35 -14 754 705 ;
C 204 ; WX 788 ; N a152 ; B 35 -14 754 705 ;
C 205 ; WX 788 ; N a153 ; B 35 -14 754 705 ;
C 206 ; WX 788 ; N a154 ; B 35 -14 754 705 ;
C 207 ; WX 788 ; N a155 ; B 35 -14 754 705 ;
C 208 ; WX 788 ; N a156 ; B 35 -14 754 705 ;
C 209 ; WX 788 ; N a157 ; B 35 -14 754 705 ;
C 210 ; WX 788 ; N a158 ; B 35 -14 754 705 ;
C 211 ; WX 788 ; N a159 ; B 35 -14 754 705 ;
C 212 ; WX 894 ; N a160 ; B 35 58 860 634 ;
C 213 ; WX 838 ; N a161 ; B 35 152 803 540 ;
C 214 ; WX 1016 ; N a163 ; B 34 152 981 540 ;
C 215 ; WX 458 ; N a164 ; B 35 -127 422 820 ;
C 216 ; WX 748 ; N a196 ; B 35 49 698 597 ;
C 217 ; WX 924 ; N a165 ; B 35 140 890 552 ;
C 218 ; WX 748 ; N a192 ; B 35 94 698 597 ;
C 219 ; WX 918 ; N a166 ; B 35 166 884 526 ;
C 220 ; WX 927 ; N a167 ; B 35 32 892 660 ;
C 221 ; WX 928 ; N a168 ; B 35 129 891 562 ;
C 222 ; WX 928 ; N a169 ; B 35 128 893 563 ;
C 223 ; WX 834 ; N a170 ; B 35 155 799 537 ;
C 224 ; WX 873 ; N a171 ; B 35 93 838 599 ;
C 225 ; WX 828 ; N a172 ; B 35 104 791 588 ;
C 226 ; WX 924 ; N a173 ; B 35 98 889 594 ;
C 227 ; WX 924 ; N a162 ; B 35 98 889 594 ;
C 228 ; WX 917 ; N a174 ; B 35 0 882 692 ;
C 229 ; WX 930 ; N a175 ; B 35 84 896 608 ;
C 230 ; WX 931 ; N a176 ; B 35 84 896 608 ;
C 231 ; WX 463 ; N a177 ; B 35 -99 429 791 ;
C 232 ; WX 883 ; N a178 ; B 35 71 848 623 ;
C 233 ; WX 836 ; N a179 ; B 35 44 802 648 ;
C 234 ; WX 836 ; N a193 ; B 35 44 802 648 ;
Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10
StartKernPairs 250

KPX A y -40
KPX A w -40
KPX A v -40
KPX A u -30
KPX A Y -100
KPX A W -50
KPX A V -70
KPX A U -50
KPX A T -120
KPX A Q -30
KPX A O -30
KPX A G -30
KPX A C -30

KPX B period -20
KPX B comma -20
KPX B U -10

KPX C period -30
KPX C comma -30

KPX D period -70
KPX D comma -70
KPX D Y -90
KPX D W -40
KPX D V -70
KPX D A -40

KPX F r -45
KPX F period -150
KPX F o -30
KPX F e -30
KPX F comma -150
KPX F a -50
KPX F A -80

KPX J u -20
KPX J period -30
KPX J comma -30
KPX J a -20
KPX J A -20

KPX K y -50
KPX K u -30
KPX K o -40
KPX K e -40
KPX T colon -20
KPX T a -120
KPX T O -40
KPX T A -120

KPX U period -40
KPX U comma -40
KPX U A -40

KPX V u -70
KPX V semicolon -40
KPX V period -125
KPX V o -80
KPX V hyphen -80
KPX V e -80
KPX V comma -125
KPX V colon -40
KPX V a -70
KPX V O -40
KPX V G -40
KPX V A -80

KPX W y -20
KPX W u -30
KPX W period -80
KPX W o -30
KPX W hyphen -40
KPX W e -30
KPX W comma -80
KPX W a -40
KPX W O -20
KPX W A -50

KPX Y u -110
KPX Y semicolon -60
KPX Y period -140
KPX Y o -140
KPX Y i -20
KPX Y hyphen -140
KPX Y e -140
KPX Y comma -140
KPX Y colon -60
KPX Y a -140
KPX Y O -85
KPX Y A -110

KPX a y -30
KPX a w -20
KPX A V -105
KPX A U -50
KPX A T -37
KPX A Q -40
KPX A O -40
KPX A G -35
KPX A C -30

KPX B period 0
KPX B comma 0
KPX B U -10
KPX B A -25

KPX D period 0
KPX D comma 0
KPX D Y -40
KPX D W -40
KPX D V -40
KPX D A -35

KPX F r -55
KPX F period -135
KPX F o -105
KPX F i -45
KPX F e -75
KPX F comma -135
KPX F a -75
KPX F A -115

KPX G period 0
KPX G comma 0

KPX J u -35
KPX J period -25
KPX J o -25
KPX J e -25
KPX J comma -25
KPX J a -35
KPX J A -40

KPX K y -40
KPX K u -40
KPX K o -40
KPX K e -35
KPX K O -50

KPX L y -30
KPX L quoteright -37
Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10

EndComposites
EndFontMetrics
StartFontMetrics 2.0
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Comment Creation Date: Tue Sep 17 14:02:41 1991
Comment UniqueID 36384
Comment VMusage 31992 40360
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FullName Courier Bold
FamilyName Courier
Weight Bold
ItalicAngle 0
IsFixedPitch true
FontBBox -113 -250 749 801
UnderlinePosition -100
UnderlineThickness 50
Version 002.004
Notice Copyright (c) 1989, 1990, 1991, Adobe Systems Incorporated. All rights reserved.
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CapHeight 562
XHeight 439
Ascender 626
Descender -142
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C 32 ; WX 600 ; N space ; B 0 0 0 0 ;
C 33 ; WX 600 ; N exclaim ; B 202 -15 398 572 ;
C 34 ; WX 600 ; N quotedbl ; B 135 277 465 562 ;
C 35 ; WX 600 ; N numbersign ; B 56 -45 544 651 ;
C 36 ; WX 600 ; N dollar ; B 82 -126 519 666 ;
C 37 ; WX 600 ; N percent ; B 5 -15 595 616 ;
C 38 ; WX 600 ; N ampersand ; B 36 -15 546 543 ;
C 39 ; WX 600 ; N quoteright ; B 171 277 423 562 ;
C 40 ; WX 600 ; N parenleft ; B 219 -102 461 616 ;
C 41 ; WX 600 ; N parenright ; B 139 -102 381 616 ;
C 42 ; WX 600 ; N asterisk ; B 91 219 509 601 ;
C 43 ; WX 600 ; N plus ; B 71 39 529 478 ;
C 44 ; WX 600 ; N comma ; B 123 -111 393 174 ;
C 45 ; WX 600 ; N hyphen ; B 100 203 500 313 ;
C 46 ; WX 600 ; N period ; B 192 -15 408 171 ;
C 47 ; WX 600 ; N slash ; B 98 -77 502 626 ;
C 48 ; WX 600 ; N zero ; B 87 -15 513 616 ;
C 49 ; WX 600 ; N one ; B 81 0 539 616 ;
C 50 ; WX 600 ; N two ; B 61 0 499 616 ;
C 51 ; WX 600 ; N three ; B 63 -15 501 616 ;
C 52 ; WX 600 ; N four ; B 53 0 507 616 ;
C 53 ; WX 600 ; N five ; B 70 -15 521 601 ;
C 54 ; WX 600 ; N six ; B 90 -15 521 616 ;
C 55 ; WX 600 ; N seven ; B 55 0 494 601 ;
C 56 ; WX 600 ; N eight ; B 83 -15 517 616 ;
Open Source Used In Cisco Tetration Analytics, Release 1.103.10 1.103.10

4460
Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10

4467
KPX Q period 20
KPX Q comma 20
KPX Q U -10

KPX R Y -50
KPX R W -40
KPX R V -50
KPX R U -20
KPX R T -20
KPX R O -20

KPX T y -60
KPX T w -60
KPX T u -90
KPX T semicolon -40
KPX T r -80
KPX T period -80
KPX T o -80
KPX T hyphen -120
KPX T e -60
KPX T comma -80
KPX T colon -40
KPX T a -80
KPX T O -40
KPX T A -90

KPX U period -30
KPX U comma -30
KPX U A -50

KPX V u -60
KPX V semicolon -40
KPX V period -120
KPX V o -90
KPX V hyphen -80
KPX V e -50
KPX V comma -120
KPX V colon -40
KPX V a -60
KPX V O -50
KPX V G -50
KPX V A -80

KPX W y -20
KPX W u -45
KPX W semicolon -10
KPX W period -80
KPX W o -60
Open Source Used In Cisco Tetration Analytics, Release 1.103.10 1.103.10

4475
Open Source Used in Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10

4477
KPX a g 0
KPX a b 0

KPX b y 0
KPX b v -15
KPX b u -20
KPX b period -40
KPX b l 0
KPX b comma 0
KPX b b 0

KPX c y -15
KPX c period 0
KPX c l 0
KPX c k 0
KPX c h 0
KPX c comma 0

KPX colon space 0

KPX comma space 0
KPX comma quoteright -70
KPX comma quotedblright -70

KPX d y 0
KPX d w 0
KPX d v 0
KPX d period 0
KPX d d 0
KPX d comma 0

KPX e y -15
KPX e x -15
KPX e w -25
KPX e v -25
KPX e period 0
KPX e p 0
KPX e g -15
KPX e comma 0
KPX e b 0

KPX f quoteright 55
KPX f quotedblright 0
KPX f period 0
KPX f o 0
KPX f l 0
KPX f i -20
KPX f f -25
Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10

4491
StartKernData
StartKernPairs 239

KPX A y -33
KPX A w -25
KPX A v -10
KPX A u -15
KPX A quoteright -95
KPX A quotedblright -95
KPX A Y -70
KPX A W -84
KPX A V -100
KPX A U -32
KPX A T 5
KPX A Q 5
KPX A O 5
KPX A G 5
KPX A C 5

KPX B period 15
KPX B comma 15
KPX B U 15
KPX B A -11

KPX C A -5

KPX D period -11
KPX D comma -11
KPX D Y 6
KPX D W -11
KPX D V -18

KPX F r -27
KPX F period -91
KPX F o -47
KPX F i -41
KPX F e -41
KPX F comma -91
KPX F a -47
KPX F A -79

KPX J u -39
KPX J period -74
KPX J o -40
KPX J e -33
KPX J comma -74
KPX J a -40
KPX J A -30
Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10

4501
Open Source Used in Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10
KPX S period -15
KPX S comma -15

KPX T y -97
KPX T w -97
KPX T u -97
KPX T semicolon -15
KPX T r -97
KPX T period -97
KPX T o -97
KPX T hyphen -114
KPX T e -97
KPX T comma -97
KPX T colon -15
KPX T a -97
KPX T O -32
KPX T A -97

KPX U period -32
KPX U comma -32
KPX U A -32

KPX V u -56
KPX V semicolon -32
KPX V period -102
KPX V o -65
KPX V hyphen -65
KPX V e -65
KPX V comma -102
KPX V colon -32
KPX V a -56
KPX V O -32
KPX V G -32
KPX V A -65

KPX W y -15
KPX W u -24
KPX W period -65
KPX W o -24
KPX W hyphen -32
KPX W e -24
KPX W comma -65
KPX W a -32
KPX W O -15
KPX W A -40

KPX Y u -89
KPX Y semicolon -48
Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10
Open Source Used in Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10

4545
KPX A V -70
KPX A U -50
KPX A T -120
KPX A Q -30
KPX A O -30
KPX A G -30
KPX A C -30

KPX B period -20
KPX B comma -20
KPX B U -10

KPX C period -30
KPX C comma -30

KPX D period -70
KPX D comma -70
KPX D Y -90
KPX D W -40
KPX D V -70
KPX D A -40

KPX F r -45
KPX F period -150
KPX F o -30
KPX F e -30
KPX F comma -150
KPX F a -50
KPX F A -80

KPX J u -20
KPX J period -30
KPX J comma -30
KPX J a -20
KPX J A -20

KPX K y -50
KPX K u -30
KPX K o -40
KPX K e -40
KPX K O -50

KPX L y -30
KPX L quotedblright -160
KPX L quotedblright -140
KPX L Y -140
KPX L W -70
KPX L V -110
 KPX b b -10
 KPX c k -20
 KPX c comma -15

 KPX colon space -50
 KPX comma quoteright -100
 KPX comma quotedblright -100

 KPX e y -20
 KPX e x -30
 KPX e w -20
 KPX e v -30
 KPX e period -15
 KPX e comma -15

 KPX f quoteright 50
 KPX f quotedblright 60
 KPX f period -30
 KPX f o -30
 KPX f e -30
 KPX f dotlessi -28
 KPX f comma -30
 KPX f a -30

 KPX g r -10

 KPX h y -30

 KPX k o -20
 KPX k e -20

 KPX m y -15
 KPX m u -10

 KPX n y -15
 KPX n v -20
 KPX n u -10

 KPX o y -30
 KPX o x -30
 KPX o w -15
 KPX o v -15
 KPX o period -40
 KPX o comma -40

 KPX oslash z -55
KPX z e -15
EndKernPairs
EndKernData
StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 208 195 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 208 195 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 208 195 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 208 195 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 204 175 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 208 195 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 195 0 ;
CC Ecute 2 ; PCC E 0 0 ; PCC acute 208 195 ;
CC Ecirumflex 2 ; PCC E 0 0 ; PCC circumflex 208 195 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 208 195 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 208 195 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 14 195 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 14 195 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 14 195 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave 14 195 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 246 195 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 264 195 ;
CC Ocirumflex 2 ; PCC O 0 0 ; PCC circumflex 264 195 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 264 195 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 264 195 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 208 195 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 236 195 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 236 195 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 236 195 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 236 195 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 208 195 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 208 195 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 180 195 ;
CC aacute 2 ; PCC a 0 0 ; PCC acute 112 0 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 112 0 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 112 0 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 112 0 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 112 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 102 0 ;
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 84 0 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 112 0 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 112 0 ;
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 112 0 ;
CC egrave 2 ; PCC e 0 0 ; PCC grave 112 0 ;
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute -27 0 ;
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -27 0 ;
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis -27 0 ;
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave -27 0 ;
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Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10

4556
Open Source Used in Cisco Tetration Analytics, Release 1.103.1.10

4558
KPX r comma -55
KPX r c -18

KPX v period -55
KPX v comma -55

KPX w period -55
KPX w comma -55

KPX y period -37
KPX y comma -37
EndKernPairs
EndKernData
StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 195 212 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 195 212 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 195 212 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 195 212 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 83 212 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 195 212 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 176 0 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 139 212 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 139 212 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 139 212 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 139 212 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute 28 212 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex 28 212 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis 28 212 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave 28 212 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 223 212 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 250 212 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 250 212 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 250 212 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 250 212 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 250 212 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 112 212 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 223 212 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 223 212 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 223 212 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 211 212 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 151 212 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 151 212 ;
CC Zcaron 2 ; PCC Z 0 0 ; PCC caron 167 212 ;
CC aacute 2 ; PCC a 0 0 ; PCC acute 112 20 ;
CC acircumflex 2 ; PCC a 0 0 ; PCC circumflex 112 20 ;
CC adieresis 2 ; PCC a 0 0 ; PCC dieresis 112 20 ;
CC agrave 2 ; PCC a 0 0 ; PCC grave 112 20 ;
CC aring 2 ; PCC a 0 0 ; PCC ring 0 0 ;
CC atilde 2 ; PCC a 0 0 ; PCC tilde 112 12 ;
CC ccedilla 2 ; PCC c 0 0 ; PCC cedilla 56 0 ;
CC eacute 2 ; PCC e 0 0 ; PCC acute 56 20 ;
CC ecircumflex 2 ; PCC e 0 0 ; PCC circumflex 56 20 ;
CC edieresis 2 ; PCC e 0 0 ; PCC dieresis 56 20 ;
CC egrave 2 ; PCC e 0 0 ; PCC grave 56 20 ;
CC iacute 2 ; PCC dotlessi 0 0 ; PCC acute 0 20 ;
CC icircumflex 2 ; PCC dotlessi 0 0 ; PCC circumflex -12 20 ;
CC idieresis 2 ; PCC dotlessi 0 0 ; PCC dieresis 0 20 ;
CC igrave 2 ; PCC dotlessi 0 0 ; PCC grave 0 20 ;
CC ntilde 2 ; PCC n 0 0 ; PCC tilde 112 12 ;
CC oacute 2 ; PCC o 0 0 ; PCC acute 112 20 ;
CC odieresis 2 ; PCC o 0 0 ; PCC dieresis 112 20 ;
CC ograve 2 ; PCC o 0 0 ; PCC grave 112 20 ;
CC ottilde 2 ; PCC o 0 0 ; PCC tilde 112 12 ;
CC scaron 2 ; PCC s 0 0 ; PCC caron 44 8 ;
CC uacute 2 ; PCC u 0 0 ; PCC acute 112 20 ;
CC udieresis 2 ; PCC u 0 0 ; PCC dieresis 112 20 ;
CC ugrave 2 ; PCC u 0 0 ; PCC grave 112 20 ;
CC yacute 2 ; PCC y 0 0 ; PCC acute 112 20 ;
CC ydieresis 2 ; PCC y 0 0 ; PCC dieresis 112 20 ;
CC zcaron 2 ; PCC z 0 0 ; PCC caron 72 8 ;
EndComposites
EndFontMetrics
StartFontMetrics 2.0
Comment Copyright (c) 1985, 1987, 1988 Adobe Systems Incorporated. All Rights Reserved.
Comment Creation Date:Mon Jan 11 16:46:06 PST 1988
FontName Helvetica-Light
EncodingScheme AdobeStandardEncoding
FullName Helvetica Light
FamilyName Helvetica
Weight Light
ItalicAngle 0.0
IsFixedPitch false
UnderlinePosition -90
UnderlineThickness 58
Version 001.002
Notice Copyright (c) 1985, 1987, 1988 Adobe Systems Incorporated. All Rights Reserved. Helvetica is a trademark of Linotype Company.
FontBBox -164 -212 1000 979
CapHeight 720
XHeight 518
Descender -204
Ascender 720
StartCharMetrics 228
C 32 ; WX 278 ; N space ; B 0 0 0 0 ;
Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10

KPX A y -18
KPX A w -18
KPX A v -18
KPX A quoteright -74
KPX A Y -74
KPX A W -37
KPX A V -74
KPX A T -92
Comment Ascending 98, 99, 100% widehat - hatwide
Comment Ascending 101, 102, 103% widetilde - tildewide
Comment Ascending 112, 113, 114, 115, 116% radical - sqrt
Comment Extensible characters (28)
Comment Extensible 12 top 0 mid 0 bot 0 rep 12 % vert - thin bar
Comment Extensible 13 top 0 mid 0 bot 0 rep 13 % Vert - thin double bar
Comment Extensible 48 top 48 mid 0 bot 64 rep 66 % ( - parenleft
Comment Extensible 49 top 49 mid 0 bot 65 rep 67 % ) - parenright
Comment Extensible 50 top 50 mid 0 bot 52 rep 54 % [ - bracketleft
Comment Extensible 51 top 51 mid 0 bot 53 rep 55 % ] - bracketright
Comment Extensible 52 top 0 mid 0 bot 52 rep 54 % lfloor - floorleft
Comment Extensible 53 top 0 mid 0 bot 53 rep 55 % rfloor - floorright
Comment Extensible 54 top 50 mid 0 bot 0 rep 54 % lceil - ceilingleft
Comment Extensible 55 top 51 mid 0 bot 0 rep 55 % rceil - ceilingright
Comment Extensible 56 top 56 mid 60 bot 58 rep 62 % { - braceleft
Comment Extensible 57 top 57 mid 61 bot 59 rep 62 % } - braceleft
Comment Extensible 58 top 56 mid 0 bot 58 rep 62 % lgroup
Comment Extensible 59 top 57 mid 0 bot 59 rep 62 % rgroup
Comment Extensible 60 top 0 mid 0 bot 0 rep 63 % arrowvert
Comment Extensible 61 top 0 mid 0 bot 0 rep 119 % Arrowvert
Comment Extensible 62 top 0 mid 0 bot 0 rep 62 % bracevert
Comment Extensible 63 top 120 mid 0 bot 121 rep 63 % updownarrow
Comment Extensible 64 top 56 mid 0 bot 59 rep 62 % lmboustache
Comment Extensible 65 top 57 mid 0 bot 58 rep 62 % rmoustache
Comment Extensible 66 top 0 mid 0 bot 0 rep 66 % parenleftexten
Comment Extensible 67 top 0 mid 0 bot 0 rep 67 % parenrightexten
Comment Extensible 116 top 118 mid 0 bot 116 rep 117% radical
Comment Extensible 119 top 126 mid 0 bot 127 rep 119% Updownarrow
Comment Extensible 120 top 120 mid 0 bot 0 rep 63% uparrow
Comment Extensible 121 top 0 mid 0 bot 121 rep 63% downarrow
Comment Extensible 126 top 126 mid 0 bot 0 rep 119% Uparrow
Comment Extensible 127 top 0 mid 0 bot 127 rep 119% Downarrow
StartCharMetrics 129
C 0 ; WX 458.333 ; N parenleftbig ; B 152 -1159 413 40 ;
C 1 ; WX 458.333 ; N parenrightbig ; B 44 -1159 305 40 ;
C 2 ; WX 416.667 ; N bracketleftbig ; B 202 -1159 394 40 ;
C 3 ; WX 416.667 ; N bracketrightbig ; B 22 -1159 214 40 ;
C 4 ; WX 472.222 ; N floorleftbig ; B 202 -1159 449 40 ;
C 5 ; WX 472.222 ; N floorrightbig ; B 22 -1159 269 40 ;
C 6 ; WX 472.222 ; N ceilingleftbig ; B 202 -1159 449 40 ;
C 7 ; WX 472.222 ; N ceilingrightbig ; B 22 -1159 269 40 ;
C 8 ; WX 583.333 ; N braceleftbig ; B 113 -1159 469 40 ;
C 9 ; WX 583.333 ; N bracerightbig ; B 113 -1159 469 40 ;
C 10 ; WX 472.222 ; N angbracketleftbig ; B 98 -1160 393 40 ;
C 11 ; WX 472.222 ; N angbracketrightbig ; B 78 -1160 373 40 ;
C 12 ; WX 333.333 ; N vextendsingle ; B 145 -621 188 21 ;
C 13 ; WX 555.556 ; N vextenddouble ; B 145 -621 410 21 ;
C 14 ; WX 577.778 ; N slashbig ; B 56 -1159 521 40 ;

Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10 4575
KPX Y colon -25
KPX Y a -100
KPX Y A -91

KPX colon space -18

KPX comma space -18
KPX comma quoteright -18
KPX comma quotedblright -18

KPX f quoteright 75
KPX f quotedblright 75

KPX period space -18
KPX period quoteright -18
KPX period quotedblright -18

KPX quotedblleft A -74

KPX quotedblright space -18

KPX quoteleft A -74

KPX quoteright s -25
KPX quoteright d -25

KPX r period -74
KPX r comma -74

KPX semicolon space -18

KPX space quoteleft -18
KPX space quotedblleft -18
KPX space Y -18
KPX space W -18
KPX space V -18
KPX space T -18
KPX space A -18

KPX v period -100
KPX v comma -100

KPX w period -100
KPX w comma -100

KPX y period -100
KPX y comma -100

EndKernPairs
Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10

4586
Open Source Used in Cisco Tetration Analytics, Release 1.103.1.10

4588
KPX A O -50
KPX A G -40
KPX A C -40

KPX B A -10
KPX C A -40

KPX D period -20
KPX D comma -20
KPX D Y -45
KPX D W .25
KPX D V -50
KPX D A -50

KPX F period -129
KPX F e -20
KPX F comma -162
KPX F a -20
KPX F A -75

KPX G period -20
KPX G comma -20
KPX G Y -15

KPX J period -15
KPX J a -20
KPX J A -30

KPX K y -20
KPX K u -15
KPX K o -45
KPX K e -40
KPX K O -30

KPX L y -23
KPX L quoteright -30
KPX L quotedblright -30
KPX L Y -80
KPX L W -55
KPX L V -85
KPX L T -46

KPX O period -30
KPX O comma -30
KPX O Y -30
KPX O X -30
KPX O W -20
KHX O V -45
KHX O T -15
KHX O A -60
KHX P period -200
KHX P o -20
KHX P e -20
KHX P comma -220
KHX P a -20
KHX P A -100
KHX Q comma 20
KHX R W 25
KHX R V -10
KHX R U 25
KHX R T 40
KHX R O 25
KHX S comma 20
KHX T y -10
KHX T w -55
KHX T u -46
KHX T semicolon -29
KHX T r -30
KHX T period -91
KHX T o -49
KHX T hyphen -75
KHX T e -49
KHX T comma -82
KHX T colon -15
KHX T a -70
KHX T O -15
KHX T A -25
KHX U period -20
KHX U comma -20
KHX U A -40
KHX V u -55
KHX V semicolon -33
KHX V period -145
KHX V o -101
KHX V i -15
KHX V hyphen -75
KHX V e -101
KHX V comma -145
Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10
4630
Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10

4632
KPX L W -80
KPX L V -110
KPX L T -90

KPX O period -40
KPX O comma -40
KPX O Y -70
KPX O X -50
KPX O W -50
KPX O V -50
KPX O T -40
KPX O A -50

KPX P period -120
KPX P o -40
KPX P e -30
KPX P comma -120
KPX P a -30
KPX P A -100

KPX Q period 20
KPX Q comma 20
KPX Q U -10

KPX R Y -50
KPX R W -40
KPX R V -50
KPX R U -20
KPX R T -20
KPX R O -20

KPX T y -60
KPX T w -60
KPX T u -90
KPX T semicolon -40
KPX T r -80
KPX T period -80
KPX T o -80
KPX T hyphen -120
KPX T e -60
KPX T comma -80
KPX T colon -40
KPX T a -80
KPX T O -40
KPX T A -90

KPX U period -30
KPX U comma -30
KPX o y -20
KPX o x -30
KPX o w -15
KPX o v -20

KPX p y -15
KPX period space -40
KPX period quoteright -120
KPX period quotedblright -120

KPX quotedblright space -80

KPX quoteleft quoteleft -46

KPX quoteright v -20
KPX quoteright space -80
KPX quoteright s -60
KPX quoteright r -40
KPX quoteright quoteright -46
KPX quoteright l -20
KPX quoteright d -80

KPX r y 10
KPX r v 10
KPX r t 20
KPX r s -15
KPX r q -20
KPX r period -60
KPX r o -20
KPX r hyphen -20
KPX r g -15
KPX r d -20
KPX r comma -60
KPX r c -20

KPX s w -15

KPX semicolon space -40

KPX space quoteleft -60
KPX space quotedblleft -80
KPX space Y -120
KPX space W -80
KPX space V -80
KPX space T -100

KPX v period -80
KPX v o -30
KPX v comma -80
KPX v a -20

KPX w period -40
KPX w o -20
KPX w comma -40

KPX x e -10

KPX y period -80
KPX y o -25
KPX y e -10
KPX y comma -80
KPX y a -30

KPX z e 10
EndKernPairs
EndKernData
StartComposites 58
CC Aacute 2 ; PCC A 0 0 ; PCC acute 195 186 ;
CC Acircumflex 2 ; PCC A 0 0 ; PCC circumflex 195 186 ;
CC Adieresis 2 ; PCC A 0 0 ; PCC dieresis 195 186 ;
CC Agrave 2 ; PCC A 0 0 ; PCC grave 195 186 ;
CC Aring 2 ; PCC A 0 0 ; PCC ring 195 186 ;
CC Atilde 2 ; PCC A 0 0 ; PCC tilde 195 186 ;
CC Ccedilla 2 ; PCC C 0 0 ; PCC cedilla 215 0 ;
CC Eacute 2 ; PCC E 0 0 ; PCC acute 167 186 ;
CC Ecircumflex 2 ; PCC E 0 0 ; PCC circumflex 167 186 ;
CC Edieresis 2 ; PCC E 0 0 ; PCC dieresis 167 186 ;
CC Egrave 2 ; PCC E 0 0 ; PCC grave 167 186 ;
CC Iacute 2 ; PCC I 0 0 ; PCC acute -27 186 ;
CC Icircumflex 2 ; PCC I 0 0 ; PCC circumflex -27 186 ;
CC Idieresis 2 ; PCC I 0 0 ; PCC dieresis -27 186 ;
CC Igrave 2 ; PCC I 0 0 ; PCC grave -27 186 ;
CC Ntilde 2 ; PCC N 0 0 ; PCC tilde 195 186 ;
CC Oacute 2 ; PCC O 0 0 ; PCC acute 223 186 ;
CC Ocircumflex 2 ; PCC O 0 0 ; PCC circumflex 223 186 ;
CC Odieresis 2 ; PCC O 0 0 ; PCC dieresis 223 186 ;
CC Ograve 2 ; PCC O 0 0 ; PCC grave 223 186 ;
CC Otilde 2 ; PCC O 0 0 ; PCC tilde 223 186 ;
CC Scaron 2 ; PCC S 0 0 ; PCC caron 167 186 ;
CC Uacute 2 ; PCC U 0 0 ; PCC acute 195 186 ;
CC Ucircumflex 2 ; PCC U 0 0 ; PCC circumflex 195 186 ;
CC Udieresis 2 ; PCC U 0 0 ; PCC dieresis 195 186 ;
CC Ugrave 2 ; PCC U 0 0 ; PCC grave 195 186 ;
CC Yacute 2 ; PCC Y 0 0 ; PCC acute 167 186 ;
CC Ydieresis 2 ; PCC Y 0 0 ; PCC dieresis 167 186 ;
<table>
<thead>
<tr>
<th>Character</th>
<th>Code Points</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CC Z caron</td>
<td>PCC Z 0 0</td>
<td>PCC caron 139 186</td>
</tr>
<tr>
<td>CC acute</td>
<td>PCC a 0 0</td>
<td>PCC acute 112 0</td>
</tr>
<tr>
<td>CC acircumflex</td>
<td>PCC a 0 0</td>
<td>PCC circumflex 112 0</td>
</tr>
<tr>
<td>CC adieresis</td>
<td>PCC a 0 0</td>
<td>PCC dieresis 112 0</td>
</tr>
<tr>
<td>CC agrave</td>
<td>PCC a 0 0</td>
<td>PCC grave 112 0</td>
</tr>
<tr>
<td>CC aring</td>
<td>PCC a 0 0</td>
<td>PCC ring 112 0</td>
</tr>
<tr>
<td>CC atilde</td>
<td>PCC a 0 0</td>
<td>PCC tilde 112 0</td>
</tr>
<tr>
<td>CC ccedilla</td>
<td>PCC c 0 0</td>
<td>PCC cedilla 132 0</td>
</tr>
<tr>
<td>CC eacute</td>
<td>PCC a 0 0</td>
<td>PCC acute 112 0</td>
</tr>
<tr>
<td>CC edieresis</td>
<td>PCC e 0 0</td>
<td>PCC dieresis 112 0</td>
</tr>
<tr>
<td>CC egrave</td>
<td>PCC e 0 0</td>
<td>PCC grave 112 0</td>
</tr>
<tr>
<td>CC iacute</td>
<td>PCC dotlessi</td>
<td>PCC acute -27 0</td>
</tr>
<tr>
<td>CC icircumflex</td>
<td>PCC dotlessi</td>
<td>PCC circumflex -27 0</td>
</tr>
<tr>
<td>CC idieresis</td>
<td>PCC dotlessi</td>
<td>PCC dieresis -27 0</td>
</tr>
<tr>
<td>CC iggrave</td>
<td>PCC dotlessi</td>
<td>PCC grave -27 0</td>
</tr>
<tr>
<td>CC ntilde</td>
<td>PCC n 0 0</td>
<td>PCC tilde 139 0</td>
</tr>
<tr>
<td>CC oacute</td>
<td>PCC o 0 0</td>
<td>PCC acute 139 0</td>
</tr>
<tr>
<td>CC ocircumflex</td>
<td>PCC o 0 0</td>
<td>PCC circumflex 139 0</td>
</tr>
<tr>
<td>CC odieresis</td>
<td>PCC o 0 0</td>
<td>PCC dieresis 139 0</td>
</tr>
<tr>
<td>CC oggrave</td>
<td>PCC o 0 0</td>
<td>PCC grave 139 0</td>
</tr>
<tr>
<td>CC otilde</td>
<td>PCC o 0 0</td>
<td>PCC tilde 139 0</td>
</tr>
<tr>
<td>CC scaron</td>
<td>PCC s 0 0</td>
<td>PCC caron 112 0</td>
</tr>
<tr>
<td>CC uacute</td>
<td>PCC u 0 0</td>
<td>PCC acute 139 0</td>
</tr>
<tr>
<td>CC ucircumflex</td>
<td>PCC u 0 0</td>
<td>PCC circumflex 139 0</td>
</tr>
<tr>
<td>CC udieresis</td>
<td>PCC u 0 0</td>
<td>PCC dieresis 139 0</td>
</tr>
<tr>
<td>CC ugrave</td>
<td>PCC u 0 0</td>
<td>PCC grave 139 0</td>
</tr>
<tr>
<td>CC yacute</td>
<td>PCC y 0 0</td>
<td>PCC acute 112 0</td>
</tr>
<tr>
<td>CC ydieresis</td>
<td>PCC y 0 0</td>
<td>PCC dieresis 112 0</td>
</tr>
<tr>
<td>CC z caron</td>
<td>PCC z 0 0</td>
<td>PCC caron 84 0</td>
</tr>
</tbody>
</table>

EndComposites
EndFontMetrics
StartFontMetrics 2.0

Comment Copyright (c) 1989, 1990, 1991, Adobe Systems Incorporated. All rights reserved.
Comment Creation Date: Tue Sep 17 14:13:24 1991
Comment UniqueID 36389
Comment VMusage 10055 54684
fontName Courier-BoldOblique
fullName Courier Bold Oblique
familyName Courier
weight Bold
ItalicAngle -12
IsFixedPitch true
FontBBox -56 -250 868 801
UnderlinePosition -100
UnderlineThickness 50
Version 002.004

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The STIX fonts distributed with matplotlib have been modified from their canonical form. They have been converted from OTF to TTF format using Fontforge and this script:

```
#!/usr/bin/env fontforge

i=1
while ( i<$argc )
    Open($argv[i])
```

Open Source Used in Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10
4648
The original STIX Font License begins below.

SIL OPEN FONT LICENSE Version 1.1 - 26 February 2007

PREAMBLE

The goals of the Open Font License (OFL) are to stimulate worldwide development of collaborative font projects, to support the font creation efforts of academic and linguistic communities, and to provide a free and open framework in which fonts may be shared and improved in partnership with others.

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fonts at gnome dot org.

Copyright FAQ
=============

1. I don't understand the resale restriction... What gives?

Bitstream is giving away these fonts, but wishes to ensure its
competitors can't just drop the fonts as is into a font sale system
and sell them as is. It seems fair that if Bitstream can't make money
from the Bitstream Vera fonts, their competitors should not be able to
do so either. You can sell the fonts as part of any software package,
however.

2. I want to package these fonts separately for distribution and
sale as part of a larger software package or system. Can I do so?

Yes. A RPM or Debian package is a "larger software package" to begin
with, and you aren't selling them independently by themselves.
See 1. above.
3. Are derivative works allowed?
   Yes!

4. Can I change or add to the font(s)?
   Yes, but you must change the name(s) of the font(s).

5. Under what terms are derivative works allowed?

   You must change the name(s) of the fonts. This is to ensure the
   quality of the fonts, both to protect Bitstream and Gnome. We want to
   ensure that if an application has opened a font specifically of these
   names, it gets what it expects (though of course, using fontconfig,
   substitutions could still could have occurred during font
   opening). You must include the Bitstream copyright. Additional
   copyrights can be added, as per copyright law. Happy Font Hacking!

6. If I have improvements for Bitstream Vera, is it possible they might get
   adopted in future versions?

   Yes. The contract between the Gnome Foundation and Bitstream has
   provisions for working with Bitstream to ensure quality additions to
   the Bitstream Vera font family. Please contact us if you have such
   additions. Note, that in general, we will want such additions for the
   entire family, not just a single font, and that you'll have to keep
   both Gnome and Jim Lyles, Vera's designer, happy! To make sense to add
   glyphs to the font, they must be stylistically in keeping with Vera's
   design. Vera cannot become a "ransom note" font. Jim Lyles will be
   providing a document describing the design elements used in Vera, as a
   guide and aid for people interested in contributing to Vera.

7. I want to sell a software package that uses these fonts: Can I do so?

   Sure. Bundle the fonts with your software and sell your software
   with the fonts. That is the intent of the copyright.

8. If applications have built the names "Bitstream Vera" into them,
   can I override this somehow to use fonts of my choosing?

   This depends on exact details of the software. Most open source
   systems and software (e.g., Gnome, KDE, etc.) are now converting to
   use fontconfig (see www.fontconfig.org) to handle font configuration,
   selection and substitution; it has provisions for overriding font
   names and substituting alternatives. An example is provided by the
   supplied local.conf file, which chooses the family Bitstream Vera for
   "sans", "serif" and "monospace". Other software (e.g., the XFree86
   core server) has other mechanisms for font substitution.
Contained herin is the Bitstream Vera font family.

The Copyright information is found in the COPYRIGHT.TXT file (along with being incorporated into the fonts themselves).

The releases notes are found in the file "RELEASENOTES.TXT".

We hope you enjoy Vera!

Bitstream, Inc.
The Gnome Project
Bitstream Vera Fonts - April 16, 2003
=====================================

The version number of these fonts is 1.10 to distinguish them from the beta test fonts.

Note that the Vera copyright is incorporated in the fonts themselves. The License field in the fonts contains the copyright license as it appears below. The TrueType copyright field is not large enough to contain the full license, so the license is incorporated (as you might think if you thought about it) into the license field, which unfortunately can be obscure to find. (In pfaedit, see: Element->Font Info->TTFNames->License).

Our apologies for it taking longer to complete the fonts than planned. Beta testers requested a tighter line spacing (less leading) and Jim Lyles redesigned Vera's accents to bring its line spacing to more typical of other fonts. This took additional time and effort. Our thanks to Jim for this effort above and beyond the call of duty.

There are four monospace and sans faces (normal, oblique, bold, bold oblique) and two serif faces (normal and bold). Fontconfig/Xft2 (see www.fontconfig.org) can artificially oblique the serif faces for you: this loses hinting and distorts the faces slightly, but is visibly different than normal and bold, and reasonably pleasing.

On systems with fontconfig 2.0 or 2.1 installed, making your sans, serif and monospace fonts default to these fonts is very easy. Just drop the file local.conf into your /etc/fonts directory. This will make the Bitstream fonts your default fonts for all applications using fontconfig (if sans, serif, or monospace names are used, as they often are as default values in many desktops). The XML in local.conf may need modification to enable subpixel decimation, if appropriate, however, the commented out phrase does so for XFree86 4.3, in the case that the server does not have sufficient information to identify the use of a flat panel. Fontconfig 2.2 adds Vera to the list of font families and will, by default use it as the default sans, serif and
monospace fonts.

During the testing of the final Vera fonts, we learned that screen fonts in general are only typically hinted to work correctly at integer pixel sizes. Vera is coded internally for integer sizes only. We need to investigate further to see if there are commonly used fonts that are hinted to be rounded but are not rounded to integer sizes due to oversights in their coding.

Most fonts work best at 8 pixels and below if anti-aliased only, as the amount of work required to hint well at smaller and smaller sizes becomes astronomical. GASP tables are typically used to control whether hinting is used or not, but Freetype/Xft does not currently support GASP tables (which are present in Vera).

To mitigate this problem, both for Vera and other fonts, there will be (very shortly) a new fontconfig 2.2 release that will, by default not apply hints if the size is below 8 pixels. If you should have a font that in fact has been hinted more aggressively, you can use fontconfig to note this exception. We believe this should improve many hinted fonts in addition to Vera, though implementing GASP support is likely the right long term solution.

Font rendering in Gnome or KDE is the combination of algorithms in Xft2 and Freetype, along with hinting in the fonts themselves. It is vital to have sufficient information to disentangle problems that you may observe.

Note that having your font rendering system set up correctly is vital to proper judgement of problems of the fonts:

* Freetype may or may not be configured to in ways that may implement execution of possibly patented (in some parts of the world) TrueType hinting algorithms, particularly at small sizes. Best results are obtained while using these algorithms.

* The freetype autohinter (used when the possibly patented algorithms are not used) continues to improve with each release. If you are using the autohinter, please ensure you are using an up to date version of freetype before reporting problems.

* Please identify what version of freetype you are using in any bug reports, and how your freetype is configured.

* Make sure you are not using the freetype version included in XFree86 4.3, as it has bugs that significantly degrade most fonts, including Vera. If you build XFree86 4.3 from source yourself, you may have installed this broken version without intending it (as I
did). Vera was verified with the recently released Freetype 2.1.4. On many systems, 'ldd'' can be used to see which freetype shared library is actually being used.

* Xft/X Render does not (yet) implement gamma correction. This causes significant problems rendering white text on a black background (causing partial pixels to be insufficiently shaded) if the gamma of your monitor has not been compensated for, and minor problems with black text on a white background. The program "xgamma" can be used to set a gamma correction value in the X server's color pallette. Most monitors have a gamma near 2.

* Note that the Vera family uses minimal delta hinting. Your results on other systems when not used anti-aliased may not be entirely satisfying. We are primarily interested in reports of problems on open source systems implementing Xft2/fontconfig/freetype (which implements antialiasing and hinting adjustments, and sophisticated subpixel decimation on flatpanels). Also, the algorithms used by Xft2 adjust the hints to integer widths and the results are crisper on open source systems than on Windows or MacIntosh.

* Your fontconfig may (probably does) predate the release of fontconfig 2.2, and you may see artifacts not present when the font is used at very small sizes with hinting enabled. "vc-list -V" can be used to see what version you have installed.

We believe and hope that these fonts will resolve the problems reported during beta test. The largest change is the reduction of leading (interline spacing), which had annoyed a number of people, and reduced Vera's utility for some applications. The Vera monospace font should also now make '0' and 'O' and '1' and 'l' more clearly distinguishable.

The version of these fonts is version 1.10. Fontconfig should be choosing the new version of the fonts if both the released fonts and beta test fonts are installed (though please discard them: they have names of form tt20[1-12]gn.ttf). Note that older versions of fontconfig sometimes did not rebuild their cache correctly when new fonts are installed: please upgrade to fontconfig 2.2. "fc-cache -f" can be used to force rebuilding fontconfig's cache files.

If you note problems, please send them to fonts at gnome dot org, with exactly which face and size and unicode point you observe the problem at. The xfd utility from XFree86 CVS may be useful for this (e.g., "xfd -fa sans"). A possibly more useful program to examine fonts at a variety of sizes is the "waterfall" program found in Keith Packard's CVS.
Again, please make sure you are running an up-to-date freetype, and that you are only examining integer sizes.

Reporting Problems
==================

Please send problem reports to fonts at gnome.org, with the following information:

1. Version of Freetype, Xft2 and fontconfig
2. Whether TT hinting is being used, or the autohinter
3. Application being used
4. Character/Unicode code point that has problems (if applicable)
5. Version of which operating system
6. Please include a screenshot, when possible.

Please check the fonts list archives before reporting problems to cut down on duplication.

<?xml version="1.0" standalone="no"?> <!--*- mode: xml -*-->
<!--DOCTYPE glade-interface SYSTEM "http://glade.gnome.org/glade-2.0.dtd">
<glade-interface>

<widget class="GtkDialog" id="dialog_lineprops">
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<property name="title" translatable="yes">Line Properties</property>
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<property name="resizable">True</property>
<property name="destroy_with_parent">False</property>
<property name="decorated">True</property>
<property name="skip_taskbar_hint">False</property>
<property name="skip_pager_hint">False</property>
<property name="type_hint">GDK_WINDOW_TYPE_HINT_DIALOG</property>
<property name="gravity">GDK_GRAVITY_NORTH_WEST</property>
<property name="has_separator">True</property>
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<th>0</th>
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<th>0</th>
</tr>
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<tr>
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</table>

Open Source Used In Cisco Tetration Analytics, Release 1.103.1.10 1.103.1.10
4660
The Anti-Grain Geometry Project
A high quality rendering engine for C++
http://antigrain.com

Anti-Grain Geometry - Version 2.4
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  * Date: 2015-04-28T16:19Z */
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David H. Munro wrote Yorick and Gist. Berkeley Yacc (byacc) generated the Yorick parser. The routines in Math are from LAPACK and FFTPACK; MathC contains C translations by David H. Munro. The algorithms for Yorick's random number generator and several special functions in Yorick/include were taken from Numerical Recipes by Press, et. al., although the Yorick implementations are unrelated to those in Numerical Recipes. A small amount of code in Gist was adapted from the X11R4 release, copyright M.I.T. -- the complete copyright notice may be found in the (unused) file Gist/host.c.
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As per item (3), we are required to provide a brief summary of changes. For this, see comments in patsy/compat.py.

5.43 pbr 1.10.0 :1
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5.46 pip 8.1.2 :1

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5.47 ptyprocess 0.5.1

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5.51 pytest-cov 2.3.0 :1

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5.54 requests 2.10.0 :1

5.54.1 Available under license:

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- Stefan van der Walt
  Project coordination

- Nicolas Pinto
  Colour spaces and filters, and image resizing.
  Shape views: `util.shape.view_as_windows` and `util.shape.view_as_blocks`
  Montage helpers: `util.montage`.

- Damian Eads
  Morphological operators

- Mahipal Raythattha
  Documentation infrastructure

- S. Chris Colbert
  OpenCV wrappers, Scivi, Qt and Gtk gui bits, fast Hough transform,
  and much more.

- Holger Rapp
  OpenCV functions and better OSX library loader

- Ralf Gommers
  Image IO, color spaces, plots in documentation, cleaner API docs

- Helge Reikeras
  Logic around API docs generation

- Tony Yu
  Reading of paletted images; build, bug and doc fixes.
  Code to generate skimage logo.
  Otsu thresholding, histogram equalisation, template matching, and more.

- Zachary Pincus
  Tracing of low cost paths, FreeImage I/O plugin, iso-contours,
  and more.

- Almar Klein
  Binary heap class for graph algorithms

- Lee Kamentsky and Thouis Jones of the CellProfiler team, Broad Institute, MIT
Constant time per pixel median filter, edge detectors, and more.

- Dan Farmer
  Incorporating CellProfiler's Canny edge detector, ctypes loader with Windows support.

- Pieter Holtzhausen
  Incorporating CellProfiler's Sobel edge detector, build and bug fixes.
  Radon transform, template matching.

- Emmanuelle Gouillart
  Total variation noise filtering, integration of CellProfiler's mathematical morphology tools, random walker segmentation, tutorials, and more.

- Mal Primet
  Total variation noise filtering

- Martin Bergholdt
  Fix missing math.h functions in Windows 7 + MSVCC.

- Neil Muller
  Numerous fixes, including those for Python 3 compatibility, QT image reading.

- The IPython team
  From whom we borrowed the github+web tools / style.

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  CSV to ReST code for feature comparison table.

- The Scikit Learn team
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  Example data set loader. Nose test compatibility functions.
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- Brian Holt
  Histograms of Oriented Gradients

- David-Warde Farley, Sturla Molden
  Bresenhein line drawing, from snippets on numpy-discussion.

- Christoph Gohlke
Windows packaging and Python 3 compatibility.

- Neil Yager
  Skeletonization and grey level co-occurrence matrices.

- Nelle Varoquaux
  Renaming of the package to ``skimage``.
  Harris corner detector

- W. Randolph Franklin
  Point in polygon test.

- Gal Varoquaux
  Harris corner detector

- Nicolas Poilvert
  Shape views: ``util.shape.view_as_windows`` and ``util.shape.view_as_blocks``
  Image resizing.

- Johannes Schnberger
  Drawing functions, adaptive thresholding, regionprops, geometric
  transformations, LBPs, polygon approximations, web layout, and more.

- Pavel Campr
  Fixes and tests for Histograms of Oriented Gradients.

- Joshua Warner
  Multichannel random walker segmentation, unified peak finder backend,
  n-dimensional array padding, marching cubes, bug and doc fixes.

- Petter Strandmark
  Perimeter calculation in regionprops.

- Olivier Debeir
  Rank filters (8- and 16-bits) using sliding window.

- Luis Pedro Coelho
  Imread plugin

- Steven Silvester, Karel Zuiderveld
  Adaptive Histogram Equalization

- Anders Boesen Lindbo Larsen
  Dense DAISY feature description, circle perimeter drawing.

- Francois Boulogne
  Drawing: Andres Method for circle perimeter, ellipse perimeter drawing,
  Bezier curve, anti-aliasing.
Circular and elliptical Hough Transforms
Various fixes

- Thouis Jones
  Vectorized operators for arrays of 16-bit ints.

- Xavier Moles Lopez
  Color separation (color deconvolution) for several stainings.

- Jostein B Flystad
  Tomography: radon/iradon improvements and SART implementation
  Phase unwrapping integration

- Matt Terry
  Color difference functions

- Eugene Dvoretsky
  Yen, Ridler-Calvard (ISODATA) threshold implementations.

- Riaan van den Dool
  skimage.io plugin: GDAL

- Fedor Morozov
  Drawing: Wu's anti-aliased circle

- Michael Hansen
  novice submodule

- Munther Gdeisat
  Phase unwrapping implementation

- Miguel Arevallilo Herraez
  Phase unwrapping implementation

- Hussein Abdul-Rahman
  Phase unwrapping implementation

- Gregor Thalhammer
  Phase unwrapping integration

- Francois Orieux
  Image deconvolution http://research.orieux.fr

- Vighnesh Birodkar
  Blob Detection

- Axel Donath
  Blob Detection
- Adam Feuer
  PIL Image import and export improvements

- Rebecca Murphy
  astronaut in examples

- Geoffrey French
  skimage.filters.rank.windowed_histogram and plot_windowed_histogram example.

- Alexey Umnov
  skimage.draw.ellipse bug fix and tests.

- Ivana Kajic
  Updated description and examples in documentation for gabor filters

- Matj T
  Extended the image labelling implementation so it also works on 3D images.

- Salvatore Scaramuzzino
  RectTool example

- Kevin Keraudren
  Fix and test for feature.peak_local_max

- Jeremy Metz
  Adaptation of ImageJ Autothresher.Li, fixed Qhull error QH6228

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  Sub-pixel shift registration

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  In-depth review of sub-pixel shift registration
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To: Jarrod Millman <millman AT berkeley DOT edu>
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On 21/03/2008, Jarrod Millman <millman AT berkeley DOT edu> wrote:
> Julian and Todd,
> 
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> that it can be released with a BSD license within SciPy. Currently,
> the Fedora project is classifying the entire SciPy package as GPLed
> because one package, scipy.weave, uses blitz. (the rest of the code is
> all BSD). We were about to launch into the re-factoring step to make
> the blitz portion optional, when it occurred to us to just ask you
> guys first. :-)
> 
> Blitz is included in the scipy.weave package which allows you to
> inline C/C++ within Python. Users have the option of converting NumPy
> arrays to blitz arrays for use in C++. There is also a function
> (weave.blitz) that will automatically convert NumPy expressions in
> Python to Blitz expressions in C++. Often this shows notable speed
> improvements. Our re-factoring step will require us to split the
> blitz code into the blitz and non-blitz portions. This is a bit of a
> pain, and ends up with more installation issues than if we didn't do
> it.
> 
> Thanks for your consideration,
> 
> --
> Jarrod Millman
> Computational Infrastructure for Research Labs
> 10 Giannini Hall, UC Berkeley
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# 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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This library contains efficient implementation of LZF compression format,
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Library has been written by Tatu Saloranta (tatu.saloranta@iki.fi).
It was started at Ning, inc., as an official Open Source process used by
platform backend, but after initial versions has been developed outside of
Ning by supporting community.
Other contributors include:

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

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

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# Jackson JSON processor

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

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qsturng-py (code included in statsmodels.stats.libqsturng)

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### 5.73 wget 1.11.4

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