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1.326 iconv-lite 0.2.11

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1.334 iomcurl 7.41.0 :IOM

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1.336 ipaddr.js 1.0.1

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- 1.358 jsdom 0.2.19**
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- 1.359 json-stream 1.0.0**
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- 1.360 json-stringify-safe 5.0.0**
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- 1.366 JSONStream 0.10.0**
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- 1.367 JSV 4.0.2**
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- 1.368 JSV_jsdoc-toolkit 4.0.2**
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- 1.369 kareem 0.0.4**
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- 1.370 kerberos 0.0.8**
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- 1.373 kerberos 0.0.9**
 - 1.373.1 Available under license
- 1.374 kernel-ml 4.2.5 :1.el7.centos**
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- 1.375 keypress 0.1.0**
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- 1.376 keyutils_GPLv2 1.5.8 :3.el7**
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- 1.377 lcov-parse 0.0.6**

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1.384 libtool - libltdl 2.4.2 :20.el7
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- 1.397 lodash 1.3.1**
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- 1.514 node-ssh-exec 0.1.0**
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- 1.515 node-uuid 1.4.3**
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- 1.516 node-uuid 1.4.1**
 - 1.516.1 Available under license
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- 1.519 nodejs 0.10.32 :1.el7**
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- 1.529 nodejs-child-process-close 0.1.1 :2.el7**
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- 1.553 nodejs-ini 1.1.0 :3.el7**
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- 1.554 nodejs-init-package-json 0.0.10 :1.el7**
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- 1.570 nodejs-once 1.1.1 :5.el7**
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1.9 acorn 1.0.3

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1.11 acorn-globals 1.0.4

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1.12 active-x-obfuscator 0.0.1

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1.13 ain2 1.2.1

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1.15 amqplib 0.2.1

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1.16 ansi-regex 1.1.1

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

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

```
## Install
```

```
```sh
```

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

```
```
```

```
## Usage
```

```
```js
```

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

```
ansiRegex().test('\u001b[4mcake\u001b[0m');
```

```
//=> true
```

```
ansiRegex().test('cake');
```

```
//=> false
```

```
\u001b[4mcake\u001b[0m'.match(ansiRegex());
```

```
//=> ['\u001b[4m', '\u001b[0m']
```

```
```
```

It's a function so you can create multiple instances. Regexes with the global flag will have the `.lastIndex` property changed for each call to methods on the instance. Therefore reusing the instance with multiple calls will not work as expected for `.test()`.

```
## License
```

```
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```

1.17 ansi-styles 2.0.1

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

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

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

Install

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

Usage

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

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

API

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

Styles

Modifiers

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

Colors

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

```
### Background colors
```

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

```
## Advanced usage
```

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

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

```
##### Example
```

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

```
## License
```

```
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```

1.18 argparse 1.0.2

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1.20 asn1 0.2.1

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1.23 assert 1.1.2

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```
// http://wiki.commonjs.org/wiki/Unit_Testing/1.0
//
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// when used in node, this will actually load the util module we depend on
// versus loading the builtin util module as happens otherwise
// this is a bug in node module loading as far as I am concerned
```

1.24 assert-plus 0.1.5

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1.25 async 0.1.15

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1.27 async 0.2.9

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1.29 async 0.9.0

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```
/*!  
* async  
* https://github.com/caolan/async  
*  
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*/
```

1.30 async 0.6.2

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1.31 **async 0.9.2**

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1.32 **async-listener 0.6.3**

1.33 **atk/tk.po 2.8.0 :4.e17**

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# Mühemmet Amut <m_amout@yahoo.com>, 2004
```

1.34 atomic-write 0.1.1

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1.35 attr/libattr 2.4.46 :12.el7

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1.39 base64-js 0.0.8

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1.40 base64-url 1.2.1

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1.41 base64id 0.1.0

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1.42 basic-auth 1.0.1

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1.43 basic-auth 1.0.0

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basic-auth

Generic basic auth Authorization header field parser for whatever.

Installation

\$ npm install basic-auth

Example

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

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

...

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## 1.44 basic-auth-connect 1.0.0

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

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

## API

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

```

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

Simple username and password

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

```

Callback verification

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

```

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

...

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

```

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1.45 batch 0.5.2

1.45.1 Available under license :

```
# batch
```

Simple async batch with concurrency control and progress reporting.

```
## Installation
```

```
...
```

```
$ npm install batch
```

```
...
```

```
## API
```

```
```js
```



```

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

batch.concurrency(4);

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

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

});

batch.end(function(err, users){

});

```

### Progress events

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

```

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

```

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## 1.47 binary 0.3.0

## 1.47.1 Available under license :

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

## 1.48 bind/openssl\_patches 9.9.4 :14.e17

### 1.48.1 Available under license :

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Index: openssl/crypto/engine/cryptoki.h

diff -u /dev/null openssl/crypto/engine/cryptoki.h:1.4

--- /dev/null Thu May 16 07:44:28 2013

+++ openssl/crypto/engine/cryptoki.h Thu Dec 18 00:14:12 2008

@@ -0,0 +1,103 @@

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## 1.49 bindings 1.1.1

### 1.49.1 Available under license :

```
node-bindings
```

```
=====
```

```
Helper module for loading your native module's .node file
```

This is a helper module for authors of Node.js native addon modules.

It is basically the "swiss army knife" of `require()`ing your native module's

`.node` file.`

Throughout the course of Node's native addon history, addons have ended up being compiled in a variety of different places, depending on which build tool and which version of node was used. To make matters worse, now the `_gyp_` build tool can produce either a `_Release_` or `_Debug_` build, each being built into different locations.

This module checks `_all_` the possible locations that a native addon would be built at, and returns the first one that loads successfully.

## Installation

-----

Install with ``npm``:

```
``` bash
$ npm install bindings
```
```

Or add it to the `"dependencies"` section of your `_package.json_` file.

## Example

-----

``require()``ing the proper bindings file for the current node version, platform and architecture is as simple as:

```
``` js
var bindings = require('bindings')('binding.node')

// Use your bindings defined in your C files
bindings.your_c_function()
```
```

## Nice Error Output

-----

When the ``.node`` file could not be loaded, ``node-bindings`` throws an Error with a nice error message telling you exactly what was tried. You can also check the ``.err.tries`` Array property.

```
```
```

```
Error: Could not load the bindings file. Tried:
â /Users/nrajlich/ref/build/binding.node
â /Users/nrajlich/ref/build/Debug/binding.node
```

```
â /Users/nrajlich/ref/build/Release/binding.node
â /Users/nrajlich/ref/out/Debug/binding.node
â /Users/nrajlich/ref/Debug/binding.node
â /Users/nrajlich/ref/out/Release/binding.node
â /Users/nrajlich/ref/Release/binding.node
â /Users/nrajlich/ref/build/default/binding.node
â /Users/nrajlich/ref/compiled/0.8.2/darwin/x64/binding.node
  at bindings (/Users/nrajlich/ref/node_modules/bindings/bindings.js:84:13)
  at Object.<anonymous> (/Users/nrajlich/ref/lib/ref.js:5:47)
  at Module._compile (module.js:449:26)
  at Object.Module._extensions.js (module.js:467:10)
  at Module.load (module.js:356:32)
  at Function.Module._load (module.js:312:12)
...
^^^
```

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1.50 bindings 1.2.1

1.50.1 Available under license :

node-bindings

=====

Helper module for loading your native module's .node file

This is a helper module for authors of Node.js native addon modules.

It is basically the "swiss army knife" of `require()`ing your native module's `.node` file.`

Throughout the course of Node's native addon history, addons have ended up being compiled in a variety of different places, depending on which build tool and which version of node was used. To make matters worse, now the `_gyp_` build tool can produce either a _Release_` or _Debug_` build, each being built into different locations.`

This module checks `_all_` the possible locations that a native addon would be built at, and returns the first one that loads successfully.`

Installation

Install with ``npm`:`

```
``` bash
$ npm install bindings
```
```

Or add it to the ``"dependencies"`` section of your _package.json_` file.`

Example

``require()`ing the proper bindings file for the current node version, platform and architecture is as simple as:`

```
``` js
var bindings = require('bindings')('binding.node')

// Use your bindings defined in your C files
bindings.your_c_function()
```
```

Nice Error Output

When the `.node` file could not be loaded, `node-bindings` throws an Error with a nice error message telling you exactly what was tried. You can also check the `err.tries` Array property.

...

```
Error: Could not load the bindings file. Tried:
  /Users/nrajlich/ref/build/binding.node
  /Users/nrajlich/ref/build/Debug/binding.node
  /Users/nrajlich/ref/build/Release/binding.node
  /Users/nrajlich/ref/out/Debug/binding.node
  /Users/nrajlich/ref/Debug/binding.node
  /Users/nrajlich/ref/out/Release/binding.node
  /Users/nrajlich/ref/Release/binding.node
  /Users/nrajlich/ref/build/default/binding.node
  /Users/nrajlich/ref/compiled/0.8.2/darwin/x64/binding.node
    at bindings (/Users/nrajlich/ref/node_modules/bindings/bindings.js:84:13)
    at Object.<anonymous> (/Users/nrajlich/ref/lib/ref.js:5:47)
    at Module._compile (module.js:449:26)
    at Object.Module._extensions..js (module.js:467:10)
    at Module.load (module.js:356:32)
    at Function.Module._load (module.js:312:12)
```

...
...

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1.51 bit-array 0.2.2

1.51.1 Available under license :

```
## JavaScript Bit Array Library
```

This library contains a JavaScript implementation of bit arrays. The library supports:

- * getting, setting and toggling of individual bits
- * iterating over each bit
- * counting the number of "on" bits
- * bitwise operations with other bit arrays such as OR, AND and XOR.
- * serialization to and from JSON
- * Browser, Node.js and Ender.js compatible

The bit array is sparse. The following example shows how to set and get individual bits within the array:

```
a = new BitArray(32);
a.set(0, true);
a.set(31, true);
a.toString(); // "10000000000000000000000000000001"
a.get(1); // false
a.get(31); // true
```

Note that the array internally uses 32 bit integers (actually, JavaScript's number type is 64 bit, but only 32 bits can be addressed using bitwise operations,) so going beyond the given length throws an error:

```
a.set(32, true); // throws an index of range exception
```

Even though bit arrays are not that useful in JavaScript, there is one place where they excel; encoding large boolean sets for transfer between the browser and server. A JSON representation of a bit array is much smaller than an actual boolean array.

```
## API
```

The BitArray module has two constructors:

```
<dl>
  <dt>BitArray(size)</dt>
  <dd>Creates a new empty bit array with the given size in bits.</dd>

  <dt>BitArray(size, hex)</dt>
  <dd>Creates a new bit array with the given size and using the hex string as value</dd>
</dl>
```

The following instance methods are supported:

<dl>

<dt>size()/dt>

<dd>Returns the total number of bits in the BitArray.</dd>

<dt>set(index, boolean)/dt>

<dd>Sets the bit at index to a value (boolean.)</dd>

<dt>get(index)/dt>

<dd>Returns the value of the bit at index (boolean.)</dd>

<dt>toggle(index)/dt>

<dd>Toggles the bit at index. If the bit is on, it is turned off. Likewise, if the bit is off it is turned on.</dd>

<dt>reset()/dt>

<dd>Resets the BitArray so that it is empty and can be re-used.</dd>

<dt>copy()/dt>

<dd>Returns a copy of this BitArray.</dd>

<dt>equals(other)/dt>

<dd>Returns true if this BitArray equals another. Two BitArrays are considered equal if both have the same length and bit pattern.</dd>

<dt>toJSON()/dt>

<dd>Returns the JSON representation of this BitArray.</dd>

<dt>toString()/dt>

<dd>Returns a string representation of the BitArray with bits in logical order.</dd>

<dt>toHexString()/dt>

<dd>Returns a hex representation of the BitArray.</dd>

<dt>toArray()/dt>

<dd>Convert the BitArray to an Array of boolean values.</dd>

<dt>count()/dt>

<dd>Returns the total number of bits set to 1 in this BitArray.</dd>

<dt>not()/dt>

<dd>Inverts this BitArray.</dd>

<dt>or(other)/dt>

<dd>Bitwise OR on the values of this BitArray using BitArray `other`.</dd>

<dt>and(other)/dt>

<dd>Bitwise AND on the values of this BitArray using BitArray `other`.</dd>

```
<dt>xor(other)</dt>
<dd>Bitwise XOR on the values of this BitArray using BitArray `other`.</dd>
</dl>
```

Installation

You can install the bit array module using npm:

```
> npm install bit-array
```

Alternatively you could just include [bit-array.js](lib/bit-array.js) in your project.

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Ports

<https://github.com/foglcz/bit-array> - PHP port by Pavel Ptacek

1.52 bitsyntax 0.0.4

1.52.1 Available under license :

NO LICENSE INFORMATION AVAILABLE. Possible Contact (in addition to <https://www.npmjs.com>):

```
"author": {
"url": "git://github.com/squaremo/bitsyntax-js.git"
```

1.53 bl 0.9.4

1.53.1 Available under license :

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=====

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1.54 bluebird 2.9.26

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1.55 body-parser 1.12.2

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1.56 body-parser 1.5.2

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```
# body-parser
```

```
[![NPM version](https://badge.fury.io/js/body-parser.svg)](https://badge.fury.io/js/body-parser)
[![Build Status](https://travis-ci.org/expressjs/body-parser.svg?branch=master)](https://travis-ci.org/expressjs/body-parser)
[![Coverage Status](https://img.shields.io/coveralls/expressjs/body-parser.svg?branch=master)](https://coveralls.io/r/expressjs/body-parser)
```

Node.js body parsing middleware.

This does not handle multipart bodies, due to their complex and typically large nature. For multipart bodies, you may be interested in the following modules:

- [busboy](https://www.npmjs.org/package/busboy#readme) and [connect-busboy](https://www.npmjs.org/package/connect-busboy#readme)
- [multiparty](https://www.npmjs.org/package/multiparty#readme) and [connect-multiparty](https://www.npmjs.org/package/connect-multiparty#readme)
- [formidable](https://www.npmjs.org/package/formidable#readme)
- [multer](https://www.npmjs.org/package/multer#readme)

Other body parsers you might be interested in:

- [body](https://www.npmjs.org/package/body#readme)
- [co-body](https://www.npmjs.org/package/co-body#readme)

```
## Installation
```

```
```sh
$ npm install body-parser
```

```

...

API

```js
var express = require('express')
var bodyParser = require('body-parser')

var app = express()

// parse application/x-www-form-urlencoded
app.use(bodyParser.urlencoded({ extended: false }))

// parse application/json
app.use(bodyParser.json())

// parse application/vnd.api+json as json
app.use(bodyParser.json({ type: 'application/vnd.api+json' }))

app.use(function (req, res, next) {
  console.log(req.body) // populated!
  next()
})
...

### bodyParser.json(options)

```

Returns middleware that only parses `json`. This parser accepts any Unicode encoding of the body and supports automatic inflation of `gzip` and `deflate` encodings.

The options are:

- `strict` - only parse objects and arrays. (default: `true`)
- `inflate` - if deflated bodies will be inflated. (default: `true`)
- `limit` - maximum request body size. (default: `<100kb>`)
- `reviver` - passed to `JSON.parse`
- `type` - request content-type to parse (default: `json`)
- `verify` - function to verify body content

The `type` argument is passed directly to the `[type-is](https://www.npmjs.org/package/type-is#readme)` library. This can be an extension name (like `json`), a mime type (like `application/json`), or a mime type with a wildcard (like `*/json`).

The `verify` argument, if supplied, is called as `verify(req, res, buf, encoding)`, where `buf` is a `Buffer` of the raw request body and `encoding` is the encoding of the request. The parsing can be aborted by throwing an error.

The `reviver` argument is passed directly to `JSON.parse` as the second argument. You can find more information on this argument [in the MDN documentation about `JSON.parse`](https://developer.mozilla.org/en-

US/docs/Web/JavaScript/Reference/Global_Objects/JSON/parse#Example.3A_Using_the_reviver_parameter).

bodyParser.raw(options)

Returns middleware that parses all bodies as a `Buffer`. This parser supports automatic inflation of `gzip` and `deflate` encodings.

The options are:

- `inflate` - if deflated bodies will be inflated. (default: `true`)
- `limit` - maximum request body size. (default: `<100kb>`)
- `type` - request content-type to parse (default: `application/octet-stream`)
- `verify` - function to verify body content

The `type` argument is passed directly to the `[type-is](https://www.npmjs.org/package/type-is#readme)` library. This can be an extension name (like `bin`), a mime type (like `application/octet-stream`), or a mime type with a wildcard (like `application/*`).

The `verify` argument, if supplied, is called as `verify(req, res, buf, encoding)`, where `buf` is a `Buffer` of the raw request body and `encoding` is the encoding of the request. The parsing can be aborted by throwing an error.

bodyParser.text(options)

Returns middleware that parses all bodies as a string. This parser supports automatic inflation of `gzip` and `deflate` encodings.

The options are:

- `defaultCharset` - the default charset to parse as, if not specified in content-type. (default: `utf-8`)
- `inflate` - if deflated bodies will be inflated. (default: `true`)
- `limit` - maximum request body size. (default: `<100kb>`)
- `type` - request content-type to parse (default: `text/plain`)
- `verify` - function to verify body content

The `type` argument is passed directly to the `[type-is](https://www.npmjs.org/package/type-is#readme)` library. This can be an extension name (like `txt`), a mime type (like `text/plain`), or a mime type with a wildcard (like `text/*`).

The `verify` argument, if supplied, is called as `verify(req, res, buf, encoding)`, where `buf` is a `Buffer` of the raw request body and `encoding` is the encoding of the request. The parsing can be aborted by throwing an error.

bodyParser.urlencoded(options)

Returns middleware that only parses `urlencoded` bodies. This parser accepts only UTF-8 encoding of the body and supports automatic inflation of `gzip` and `deflate` encodings.

The options are:

- `extended` - parse extended syntax with the `[qs](https://www.npmjs.org/package/qs#readme)` module. (default:

- ``true``)
- ``inflate`` - if deflated bodies will be inflated. (default: ``true``)
- ``limit`` - maximum request body size. (default: ``<100kb>``)
- ``type`` - request content-type to parse (default: ``urlencoded``)
- ``verify`` - function to verify body content

The ``extended`` argument allows to choose between parsing the urlencoded data with the ``querystring`` library (when ``false``) or the ``qs`` library (when ``true``). The "extended" syntax allows for rich objects and arrays to be encoded into the urlencoded format, allowing for a JSON-like experience with urlencoded. For more information, please [see the qs library](<https://www.npmjs.org/package/qs#readme>).

The ``type`` argument is passed directly to the `[type-is](https://www.npmjs.org/package/type-is#readme)` library. This can be an extension name (like ``urlencoded``), a mime type (like ``application/x-www-form-urlencoded``), or a mime type with a wildcard (like ``*/x-www-form-urlencoded``).

The ``verify`` argument, if supplied, is called as ``verify(req, res, buf, encoding)``, where ``buf`` is a ``Buffer`` of the raw request body and ``encoding`` is the encoding of the request. The parsing can be aborted by throwing an error.

req.body

A new ``body`` object containing the parsed data is populated on the ``request`` object after the middleware.

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1.57 body-parser 1.12.4

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1.60 boom 2.7.2

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1.62 boom 2.6.1

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1.63 boost 1.55 :0

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[/===== Boost.Geometry (aka GGL, Generic Geometry Library)

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1.64 boost - caramel 1.55 :0

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1.65 brace-expansion 1.1.0

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brace-expansion

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

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Example

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

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

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

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

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

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

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

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

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

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

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

```
## API
```

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

```
var expanded = expand(str)
```

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

Valid expansions are:

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

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

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

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

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

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

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

```
## Installation
```

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


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

Contributors

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

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1.66 bson 0.2.21

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1.70 bson 0.2.19

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1.71 buffer 3.0.1

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1.72 Buffer 0.0.0

1.72.1 Available under license :

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```
"author": "AJ ONeal <coolaj86@gmail.com> (http://coolaj86.info)",  
"url": "git://github.com/coolaj86/browser-buffer.git"
```

1.73 buffer-crc32 0.1.1

1.73.1 Available under license :

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```
"author": "Brian J. Brennan <brianloveswords@gmail.com> (http://bjb.io)",  
"url": "git://github.com/brianloveswords/buffer-crc32.git"
```

1.74 buffer-crc32 0.2.3

1.74.1 Available under license :

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1.75 buffer-crc32 0.2.1

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1.76 buffer-more-ints 0.0.2

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1.77 buffers 0.1.1

1.77.1 Available under license :

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1.78 bunyan 0.21.4

1.78.1 Available under license :

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1.79 bytes 0.1.0

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```
# node-bytes
```

```
Byte string parser / formatter.
```

```
## Example:
```

```
```js
```

```
bytes('1kb')
```

```
// => 1024
```

```
bytes('2mb')
```

```
// => 2097152
```

```
bytes('1gb')
```

```
// => 1073741824
```

```
bytes(1073741824)
```

```
// => 1gb
```

```
```
```

```
## Installation
```

```
```
```

```
$ npm install bytes
```

```
$ component install visionmedia/bytes.js
```

```
```
```

```
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```

```
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```

```
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```

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1.80 bytes 2.1.0

1.80.1 Available under license :

Bytes utility

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

Usage

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

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

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

Arguments

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

Options

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

Returns

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

Example

```

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

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

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

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

```

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

Arguments

| Name | Type | Description |
|-------|----------|------------------|
| value | `string` | String to parse. |

Returns

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

Example

```

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

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

```

Installation

```

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

```

License

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

1.81 bytes 1.0.0

1.81.1 Available under license :

```
# node-bytes
```

```
Byte string parser / formatter.
```

```
## Example:
```

```
```js
```

```
bytes('1kb')
```

```
// => 1024
```

```
bytes('2mb')
```

```
// => 2097152
```

```
bytes('1gb')
```

```
// => 1073741824
```

```
bytes(1073741824)
```

```
// => 1gb
```

```
bytes(1099511627776)
```

```
// => 1tb
```

```
```
```

```
## Installation
```

```
```
```

```
$ npm install bytes
```

```
$ component install visionmedia/bytes.js
```

```
```
```

```
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```

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1.82 bytes 0.2.0

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```
# node-bytes
```

```
Byte string parser / formatter.
```

```
## Example:
```

```
```js
bytes('1kb')
// => 1024
```

```
bytes('2mb')
// => 2097152
```

```
bytes('1gb')
// => 1073741824
```

```
bytes(1073741824)
// => 1gb
```
```

```
## Installation
```

```
```
$ npm install bytes
$ component install visionmedia/bytes.js
```
```

```
## License
```

```
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```

```
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```


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1.83 bytes 0.2.1

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1.84 camelcase 1.1.0

1.84.1 Available under license :

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

> Convert a dash/dot/underscore/space separated string to camelCase: `foo-bar` → `fooBar`

```
## Install
```

```
```sh
$ npm install --save camelcase
```
```

```
## Usage
```

```
```js
var camelCase = require('camelcase');
```

```
camelCase('foo-bar');
//=> fooBar
```

```
camelCase('foo_bar');
//=> fooBar
```

```
camelCase('Foo-Bar');
//=> fooBar
```

```
camelCase('--foo.bar');
//=> fooBar
```

```
camelCase('__foo__bar__');
//=> fooBar
```

```
camelCase('foo bar');
//=> fooBar
```

```
console.log(process.argv[3]);
//=> --foo-bar
camelCase(process.argv[3]);
//=> fooBar
```
```

```
## Related
```

See [`decamelize`](<https://github.com/sindresorhus/decamelize>) for the inverse.

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1.85 cancelable 0.1.0

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1.86 caseless 0.10.0

1.86.1 Available under license :

```
{
  "name": "caseless",
  "version": "0.10.0",
  "description": "Caseless object set/get/has, very useful when working with HTTP headers.",
  "main": "index.js",
  "scripts": {
    "test": "node test.js"
  },
  "repository": {
```

```

    "type": "git",
    "url": "https://github.com/mikeal/caseless"
  },
  "keywords": [
    "headers",
    "http",
    "caseless"
  ],
  "test": "node test.js",
  "author": "Mikeal Rogers <mikeal.rogers@gmail.com>",
  "license": "BSD",
  "bugs": {
    "url": "https://github.com/mikeal/caseless/issues"
  },
  "devDependencies": {
    "tape": "^2.10.2"
  }
}

```

1.87 caseless 0.9.0

1.87.1 Available under license :

```

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

```

```
}  
}
```

1.88 caseless 0.8.0

1.88.1 Available under license :

```
{  
  "name": "caseless",  
  "version": "0.8.0",  
  "description": "Caseless object set/get/has, very useful when working with HTTP headers.",  
  "main": "index.js",  
  "scripts": {  
    "test": "node test.js"  
  },  
  "repository": {  
    "type": "git",  
    "url": "https://github.com/mikeal/caseless"  
  },  
  "keywords": [  
    "headers",  
    "http",  
    "caseless"  
  ],  
  "test": "node test.js",  
  "author": "Mikeal Rogers <mikeal.rogers@gmail.com>",  
  "license": "BSD",  
  "bugs": {  
    "url": "https://github.com/mikeal/caseless/issues"  
  },  
  "devDependencies": {  
    "tape": "^2.10.2"  
  }  
}
```

1.89 CentOS-MOS 7 :2.4.0

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1.89.4 GNU LESSER GENERAL PUBLIC LICENSE Version 3 :

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Version 3, 29 June 2007

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1.90 chainsaw 0.1.0

1.90.1 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" }
}
```

1.91 chalk 1.0.0

1.91.1 Available under license :

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

<br>
<br>
</h1>
```

> Terminal string styling done right

[![Build Status](https://travis-ci.org/sindresorhus/chalk.svg?branch=master)](https://travis-ci.org/sindresorhus/chalk)
[](https://www.youtube.com/watch?v=Sm368W0OsHo)

[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.****

![screenshot](https://github.com/sindresorhus/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 ~3000 modules](https://www.npmjs.com/browse/depended/chalk)

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/sindresorhus/supports-color). Used internally and handled for you, but exposed for convenience.

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

chalk.styles

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

Generally not useful, but you might need just the `.open` or `.close` escape code if you're mixing externally styled strings with your own.

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

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

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

```

### ### chalk.hasColor(string)

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

### ### chalk.stripColor(string)

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

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

Example:

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

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

```

Styles

Modifiers

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

Colors

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

Background colors

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

256-colors

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

Windows

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

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1.92 character-parser 1.0.2

1.92.1 Available under license :

character-parser

Parse JavaScript one character at a time to look for snippets in Templates. This is not a validator, it's just designed to allow you to have sections of JavaScript delimited by brackets robustly.

[![Build Status](https://travis-ci.org/ForbesLindesay/character-parser.png?branch=master)](https://travis-ci.org/ForbesLindesay/character-parser)

Installation

```
npm install character-parser
```

Usage

Work out how much depth changes:

```
```js
var state = parse('foo(arg1, arg2, {\n foo: [a, b\n]');
assert(state.roundDepth === 1);
assert(state.curlyDepth === 1);
assert(state.squareDepth === 1);
parse(' c, d\n })', state);
assert(state.squareDepth === 0);
assert(state.curlyDepth === 0);
assert(state.roundDepth === 0);
```
```

Bracketed Expressions

Find all the contents of a bracketed expression:

```
```js
var section = parser.parseMax('foo="(", bar=")" bing bong');
assert(section.start === 0);
assert(section.end === 16); //exclusive end of string
assert(section.src = 'foo="(", bar=")");
```

```
var section = parser.parseMax('{foo="(", bar=")" bing bong', {start: 1});
```

```

assert(section.start === 1);
assert(section.end === 17);//exclusive end of string
assert(section.src = 'foo="(, bar=)"');
...

```

The bracketed expression parsing simply parses up to but excluding the first unmatched closed bracket (')', `}`, `)`). It is clever enough to ignore brackets in comments or strings.

### ### Custom Delimited Expressions

Find code up to a custom delimiter:

```

```js
var section = parser.parseUntil('foo.bar("%>").baz%> bing bong', '%>');
assert(section.start === 0);
assert(section.end === 17);//exclusive end of string
assert(section.src = 'foo.bar("%>").baz');

var section = parser.parseUntil('<%foo.bar("%>").baz%> bing bong', '%>', {start: 2});
assert(section.start === 2);
assert(section.end === 19);//exclusive end of string
assert(section.src = 'foo.bar("%>").baz');
...

```

Delimiters are ignored if they are inside strings or comments.

API

```

### parse(str, state = defaultState(), options = {start: 0, end: src.length})

```

Parse a string starting at the index start, and return the state after parsing that string.

If you want to parse one string in multiple sections you should keep passing the resulting state to the next parse operation.

The resulting object has the structure:

```

```js
{
 lineComment: false, //true if inside a line comment
 blockComment: false, //true if inside a block comment

 singleQuote: false, //true if inside a single quoted string
 doubleQuote: false, //true if inside a double quoted string
 escaped: false, //true if in a string and the last character was an escape character

 roundDepth: 0, //number of un-closed open `(` brackets

```

```
curlyDepth: 0, //number of un-closed open `{` brackets
squareDepth: 0 //number of un-closed open `[` brackets
}
...

```

```
parseMax(src, options = {start: 0})
```

Parses the source until the first unmatched close bracket (any of `}`, `}`, `}`). It returns an object with the structure:

```
```js
{
  start: 0, //index of first character of string
  end: 13, //index of first character after the end of string
  src: 'source string'
}
...

```

```
### parseUntil(src, delimiter, options = {start: 0, includeLineComment: false})
```

Parses the source until the first occurrence of `delimiter` which is not in a string or a comment. If `includeLineComment` is `true`, it will still count if the delimiter occurs in a line comment, but not in a block comment. It returns an object with the structure:

```
```js
{
 start: 0, //index of first character of string
 end: 13, //index of first character after the end of string
 src: 'source string'
}
...

```

```
parseChar(character, state = defaultState())
```

Parses the single character and returns the state. See `parse` for the structure of the returned state object. N.B. character must be a single character not a multi character string.

```
defaultState()
```

Get a default starting state. See `parse` for the structure of the returned state object.

```
License
```

```
MIT
```

## 1.93 character-parser 1.2.1



## 1.93.1 Available under license :

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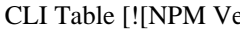

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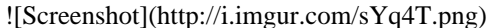
## 1.94 cli-table 0.3.1

### 1.94.1 Available under license :

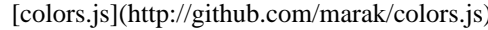
CLI Table  

=====

This utility allows you to render unicode-aided tables on the command line from your node.js scripts.



## Features

- Customizable characters that constitute the table.
- Color/background styling in the header through 
- Column width customization
- Text truncation based on predefined widths
- Text alignment (left, right, center)
- Padding (left, right)
- Easy-to-use API

## Installation

```
```bash
```

```
npm install cli-table
```

```
```
```

```
How to use
```

```
Horizontal Tables
```

```
```javascript
```

```
var Table = require('cli-table');
```

```
// instantiate
```

```
var table = new Table({  
  head: ['TH 1 label', 'TH 2 label']  
  , colWidths: [100, 200]  
});
```

```
// table is an Array, so you can `push`, `unshift`, `splice` and friends
```

```
table.push(  
  ['First value', 'Second value']  
  , ['First value', 'Second value']  
);
```

```
console.log(table.toString());
```

```
```
```

```
Vertical Tables
```

```
```javascript
```

```
var Table = require('cli-table');
```

```
var table = new Table();
```

```
table.push(  
  { 'Some key': 'Some value' }  
  , { 'Another key': 'Another value' }  
);
```

```
console.log(table.toString());
```

```
```
```

```
Cross Tables
```

Cross tables are very similar to vertical tables, with two key differences:

1. They require a `head` setting when instantiated that has an empty string as the first header
2. The individual rows take the general form of { "Header": ["Row", "Values"] }

```
```javascript
```

```
var Table = require('cli-table');
```

```
var table = new Table({ head: ['', "Top Header 1", "Top Header 2"] });
```

```
table.push(  
  { 'Left Header 1': ['Value Row 1 Col 1', 'Value Row 1 Col 2'] }
```

```
, { 'Left Header 2': ['Value Row 2 Col 1', 'Value Row 2 Col 2'] }
);
```

```
console.log(table.toString());
...

```

Custom styles

The `chars` property controls how the table is drawn:

```
```javascript
var table = new Table({
 chars: { 'top': " ", 'top-mid': " ", 'top-left': " ", 'top-right': "
 ", 'bottom': " ", 'bottom-mid': " ", 'bottom-left': " ", 'bottom-right': "
 ", 'left': " ", 'left-mid': " ", 'mid': " ", 'mid-mid': "
 ", 'right': " ", 'right-mid': " ", 'middle': " }
});

```

```
table.push(
 ['foo', 'bar', 'baz']
, ['frob', 'bar', 'quuz']
);

```

```
console.log(table.toString());
// Outputs:
//
//
// foo bar baz
//
// frob bar quuz
//
...

```

Empty decoration lines will be skipped, to avoid vertical separator rows just set the 'mid', 'left-mid', 'mid-mid', 'right-mid' to the empty string:

```
```javascript
var table = new Table({ chars: { 'mid': " ", 'left-mid': " ", 'mid-mid': " ", 'right-mid': " } });
table.push(
  ['foo', 'bar', 'baz']
, ['froblicate', 'bar', 'quuz']
);

```

```
console.log(table.toString());
// Outputs: (note the lack of the horizontal line between rows)
//
// foo bar baz
// frobnicate bar quuz
//
...

```

By setting all chars to empty with the exception of 'middle' being set to a single space and by setting padding to zero, it's possible to get the most compact layout with no decorations:

```
```javascript
var table = new Table({
 chars: { 'top': " ", 'top-mid': " ", 'top-left': " ", 'top-right': "
 ", 'bottom': " ", 'bottom-mid': " ", 'bottom-left': " ", 'bottom-right': "
 ", 'left': " ", 'left-mid': " ", 'mid': " ", 'mid-mid': "
 ", 'right': " ", 'right-mid': " ", 'middle': ' ' },
 style: { 'padding-left': 0, 'padding-right': 0 }
});

table.push(
 ['foo', 'bar', 'baz']
 , ['froblicate', 'bar', 'quuz']
);

console.log(table.toString());
// Outputs:
//foo bar baz
//froblicate bar quuz
```

## Running tests
```

Clone the repository with all its submodules and run:

```
```bash
$ make test
```
```

Credits

- Guillermo Rauch <guillermo@learnboost.com>; ([Guille](http://github.com/guille))

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1.98 cloud-init 0.7.5 :6.el7

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1.102 colors 0.6.2

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1.103 combined-stream 0.0.7

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1.104 combined-stream 1.0.3

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1.105 commander 2.0.0

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1.106 commander 2.1.0

1.106.1 Available under license :

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1.107 commander 0.6.1

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1.108 commander 2.6.0

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Commander.js

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

[![NPM

Version](http://img.shields.io/npm/v/commander.svg?style=flat)](https://www.npmjs.org/package/commander)

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

Installation

```
$ npm install commander
```

Option parsing

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

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

/**
 * Module dependencies.
 */

var program = require('commander');

program
 .version('0.0.1')
 .option('-p, --peppers', 'Add peppers')
 .option('-P, --pineapple', 'Add pineapple')
 .option('-b, --bbq', '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.bbq) 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>..', 'A range', range)
.option('-l, --list <items>', 'A list', list)
.option('-o, --optional [value]', 'An optional value')
.option('-c, --collect [value]', 'A repeatable value', collect, [])
.option('-v, --verbose', 'A value that can be increased', increaseVerbosity, 0)
.parse(process.argv);

console.log(' int: %j', program.integer);
console.log(' float: %j', program.float);
console.log(' optional: %j', program.optional);
program.range = program.range || [];
console.log(' range: %j..%j', program.range[0], program.range[1]);
console.log(' list: %j', program.list);
console.log(' collect: %j', program.collect);
console.log(' verbosity: %j', program.verbose);
console.log(' args: %j', program.args);
...

Variadic arguments

```

The last argument of a command can be variadic, and only the last argument. To make an argument variadic you have to

append `...` to the argument name. Here is an example:

```

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

```

```

/**
 * Module dependencies.
 */

var program = require('commander');

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

program.parse(process.argv);

```

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

```

## Git-style sub-commands

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

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

```

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

The commander will try to find the executable script in `__current` directory with the name `scriptBasename-subcommand`, like `pm-install`, `pm-search`.

```
Automated --help
```

The help information is auto-generated based on the information commander already knows about your program, so

the following `--help` info is for free:

...

```
$./examples/pizza --help
```

```
Usage: pizza [options]
```

```
An application for pizzas ordering
```

```
Options:
```

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

...

```
Custom help
```

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

```
```js
```

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

```
/**
```

```
* Module dependencies.
```

```
*/
```

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

```
program
```

```
.version('0.0.1')
```

```
.option('-f, --foo', 'enable some foo')
```

```
.option('-b, --bar', 'enable some bar')
```

```
.option('-B, --baz', 'enable some baz');
```

```
// must be before .parse() since
```

```
// node's emit() is immediate
```

```

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

```

```

program.parse(process.argv);

```

```

console.log('stuff');

```

```

...

```

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

```

...

```

```

Usage: custom-help [options]

```

```

Options:

```

```

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

```

```

Examples:

```

```

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

```

```

...

```

```

## .outputHelp()

```

```

Output help information without exiting.

```

```

## .help()

```

```

Output help information and exit immediately.

```

```

## Examples

```

```

```js

```

```

var program = require('commander');

```

```

program

```

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

program

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

program

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

program

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

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

```
...
```

You can see more Demos in the [examples](<https://github.com/tj/commander.js/tree/master/examples>) directory.

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## 1.109 commander 2.7.1

### 1.109.1 Available under license :

```
Commander.js
```

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

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

```
Installation
```

```
$ npm install commander
```

```
Option parsing
```

Options with commander are defined with the `.option()` method, also serving as documentation for the options. The example below parses args and options from `process.argv`, leaving remaining args as the `program.args` array

which were not consumed by options.

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

/**
 * Module dependencies.
 */

var program = require('commander');

program
  .version('0.0.1')
  .option('-p, --peppers', 'Add peppers')
  .option('-P, --pineapple', 'Add pineapple')
  .option('-b, --bbq', '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.bbq) console.log(' - bbq');
console.log(' - %s cheese', program.cheese);
```
```

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

### ## Coercion

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

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

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

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

```

}

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

console.log(' int: %j', program.integer);
console.log(' float: %j', program.float);
console.log(' optional: %j', program.optional);
program.range = program.range || [];
console.log(' range: %j..%j', program.range[0], program.range[1]);
console.log(' list: %j', program.list);
console.log(' collect: %j', program.collect);
console.log(' verbosity: %j', program.verbose);
console.log(' args: %j', program.args);
...

```

Regular Expression

```

```js
program
.version('0.0.1')
.option('-s --size <size>', 'Pizza size', /^(large|medium|small)$/i, 'medium')
.option('-d --drink [drink]', 'Drink', /^(coke|pepsi|izze)$/i)
.parse(process.argv);

console.log(' size: %j', program.size);
console.log(' drink: %j', program.drink);
...

```

### ## Variadic arguments

The last argument of a command can be variadic, and only the last argument. To make an argument variadic you have to append `...` to the argument name. Here is an example:

```

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

/**
 * Module dependencies.

```

```

*/

var program = require('commander');

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

program.parse(process.argv);

```

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

```

## Git-style sub-commands

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

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

```

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

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

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

```

Automated --help

```

The help information is auto-generated based on the information commander already knows about your program, so

the following `--help` info is for free:

...

```
$./examples/pizza --help
```

```
Usage: pizza [options]
```

```
An application for pizzas ordering
```

```
Options:
```

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

...

```
Custom help
```

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

```
```js
```

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

```
/**
```

```
* Module dependencies.
```

```
*/
```

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

```
program
```

```
.version('0.0.1')
```

```
.option('-f, --foo', 'enable some foo')
```

```
.option('-b, --bar', 'enable some bar')
```

```
.option('-B, --baz', 'enable some baz');
```

```
// must be before .parse() since
```

```
// node's emit() is immediate
```

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

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

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

```
...
```

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

```
...
```

```
Usage: custom-help [options]
```

```
Options:
```

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

```
Examples:
```

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

```
...
```

```
## .outputHelp()
```

Output help information without exiting.

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

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

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

```

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

.help()

Output help information and exit immediately.

Examples

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

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

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

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

program
  .command('*')
  .action(function(env){

```

```
    console.log('deploying "%s"', env);
  });

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

```

More Demos can be found in the [examples](<https://github.com/tj/commander.js/tree/master/examples>) directory.

License

MIT

1.110 commander 2.8.1

1.110.1 Available under license :

Commander.js

```
[![Build Status](https://api.travis-ci.org/tj/commander.js.svg)](http://travis-ci.org/tj/commander.js)
[![NPM
Version](http://img.shields.io/npm/v/commander.svg?style=flat)](https://www.npmjs.org/package/commander)
[![NPM
Downloads](https://img.shields.io/npm/dm/commander.svg?style=flat)](https://www.npmjs.org/package/commander)
[![Join the chat at
https://gitter.im/tj/commander.js](https://badges.gitter.im/Join%20Chat.svg)](https://gitter.im/tj/commander.js?utm_source=badge&utm_medium=badge&utm_campaign=pr-badge&utm_content=badge)

```

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

Installation

```
$ npm install commander
```

Option parsing

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

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

```



```

/**
 * Module dependencies.
 */

var program = require('commander');

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

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

```

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

### ## Coercion

```

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

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

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

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

program
  .version('0.0.1')
  .usage('[options] <file ...>')

```

```

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

```

```

console.log(' int: %j', program.integer);
console.log(' float: %j', program.float);
console.log(' optional: %j', program.optional);
program.range = program.range || [];
console.log(' range: %j..%j', program.range[0], program.range[1]);
console.log(' list: %j', program.list);
console.log(' collect: %j', program.collect);
console.log(' verbosity: %j', program.verbose);
console.log(' args: %j', program.args);
...

```

Regular Expression

```

```js
program
.version('0.0.1')
.option('-s --size <size>', 'Pizza size', /^(large|medium|small)$/i, 'medium')
.option('-d --drink [drink]', 'Drink', /^(coke|pepsi|izze)$/i)
.parse(process.argv);

```

```

console.log(' size: %j', program.size);
console.log(' drink: %j', program.drink);
...

```

### ## Variadic arguments

The last argument of a command can be variadic, and only the last argument. To make an argument variadic you have to

append `...` to the argument name. Here is an example:

```

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

/**
 * Module dependencies.
 */

var program = require('commander');

program

```

```

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

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

```

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

```
## Specify the argument syntax
```

```

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

var program = require('..');

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

program.parse(process.argv);

if (typeof cmdValue === 'undefined') {
 console.error('no command given!');
 process.exit(1);
}
console.log('command:', cmdValue);
console.log('environment:', envValue || "no environment given");
...

```

```
Git-style sub-commands
```

```

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

```

```

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

```

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

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

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

```

### --harmony

```

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

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

```

## Automated --help

```

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

```

...
$ ./examples/pizza --help

Usage: pizza [options]

An application for pizzas ordering

Options:

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

...

```

```
## Custom help
```

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

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

/**
 * Module dependencies.
 */

var program = require('commander');

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

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

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

program.parse(process.argv);

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

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

```
```
```

```
Usage: custom-help [options]
```

```
Options:
```

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

Examples:

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

```
...
```

```
.outputHelp()
```

Output help information without exiting.

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

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

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

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

```
.help()
```

Output help information and exit immediately.

```
Examples
```

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

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

```

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

```

```

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

```

```

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

```

```

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

```

More Demos can be found in the [examples](<https://github.com/tj/commander.js/tree/master/examples>) directory.

## License

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## 1.111 commander 1.2.0

### 1.111.1 Available under license :

# Commander.js

The complete solution for [node.js](<http://nodejs.org>) command-line interfaces, inspired by Ruby's

[commander](https://github.com/visionmedia/commander).

[![Build Status](https://secure.travis-ci.org/visionmedia/commander.js.png)](http://travis-ci.org/visionmedia/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', '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.bbq) 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.

## ## 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]
```

```
Options:
```

```
-V, --version    output the version number
-p, --peppers    Add peppers
-P, --pineapple  Add pineaple
-b, --bbq        Add bbq sauce
-c, --cheese <type> Add the specified type of cheese [marble]
-h, --help       output usage information
```

```
...
```

```
## Coercion
```

```
```js
```

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

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

```
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>..', 'A range', range)
.option('-l, --list <items>', 'A list', list)
.option('-o, --optional [value]', 'An optional value')
.parse(process.argv);
```

```
console.log(' int: %j', program.integer);
console.log(' float: %j', program.float);
console.log(' optional: %j', program.optional);
program.range = program.range || [];
console.log(' range: %j..%j', program.range[0], program.range[1]);
console.log(' list: %j', program.list);
console.log(' args: %j', program.args);
...

```

```
Custom help
```

```
You can display arbitrary `h, --help` information
```

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

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

/**
 * Module dependencies.
 */

var program = require('..');

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

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

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

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

program.parse(process.argv);

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

```

yielding the following help output:

```
...
```

```
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
```

...

```
## .prompt(msg, fn)
```

Single-line prompt:

```
```js  
program.prompt('name: ', function(name){
 console.log('hi %s', name);
});
```
```

Multi-line prompt:

```
```js  
program.prompt('description:', function(name){
 console.log('hi %s', name);
});
```
```

Coercion:

```
```js  
program.prompt('Age: ', Number, function(age){
 console.log('age: %j', age);
});
```
```

```
```js  
program.prompt('Birthdate: ', Date, function(date){
 console.log('date: %s', date);
});
```
```

```
```js  
program.prompt('Email: ', /^.+@.+\.+$/, function(email){
```

```
console.log('email: %j', email);
});
...

```

```
.password(msg[, mask], fn)
```

Prompt for password without echoing:

```
```js
program.password('Password: ', function(pass){
  console.log('got "%s"', pass);
  process.stdin.destroy();
});
...

```

Prompt for password with mask char "*":

```
```js
program.password('Password: ', '*', function(pass){
 console.log('got "%s"', pass);
 process.stdin.destroy();
});
...

```

```
.confirm(msg, fn)
```

Confirm with the given `msg`:

```
```js
program.confirm('continue? ', function(ok){
  console.log(' got %j', ok);
});
...

```

```
## .choose(list, fn)
```

Let the user choose from a `list`:

```
```js
var list = ['tobi', 'loki', 'jane', 'manny', 'luna'];

console.log('Choose the coolest pet:');
program.choose(list, function(i){
 console.log('you chose %d "%s"', i, list[i]);
});
...

```

```
.outputHelp()
```

Output help information without exiting.

```
.help()
```

Output help information and exit immediately.

```
Links
```

- [API documentation](<http://visionmedia.github.com/commander.js/>)
- [ascii tables](<https://github.com/LearnBoost/cli-table>)
- [progress bars](<https://github.com/visionmedia/node-progress>)
- [more progress bars](<https://github.com/substack/node-multimeter>)
- [examples](<https://github.com/visionmedia/commander.js/tree/master/examples>)

```
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```

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## 1.112 commander 1.3.2

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```
/*!
* commander
* Copyright(c) 2011 TJ Holowaychuk <tj@vision-media.ca>
* MIT Licensed
*/
```

## 1.113 compressible 1.0.0

### 1.113.1 Available under license :

```
Compressible [![Build Status](https://travis-ci.org/expressjs/compressible.png)](https://travis-ci.org/expressjs/compressible)
```

Compressible `Content-Type` / `mime` checking.

```
API
```

```
compressible(type)
```

```
```js  
var compressible = require('compressible')  
compressible('text/html') // -> true  
compressible('image/png') // -> false  
```
```

```
compressible.get(type)
```

Returns the specifications object associated with the given `Content-Type`.  
Generates an object using the regex if none is found.

### compressible.specs

Exports `specifications.json`.

### compressible.regex

The regular expression that checks the `Content-Type`.

However, you should use `compressible(type)` instead of this regular expression due to additional non-regex checks.

## License

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## 1.114 compressible 2.0.2

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## 1.115 compression 1.0.0

### 1.115.1 Available under license :

```
compression [![Build Status](https://travis-ci.org/expressjs/compression.png)](https://travis-ci.org/expressjs/compression)
```

Connect's compress middleware as its own module. Works with and without Connect.

```
```js
var compress = require('compression')()

http.createServer(function (req, res) {
  compress(req, res, function (err) {
    if (err) throw err

    res.end('hello world')
  })
})

var app = require('connect')()
app.use(compress)
```
```

```
API
```

```
var middleware = compress([options])
```

In addition to `zlib` options, additional options are:

- `threshold` <1kb> - only compress the response if the byte size is at or above a threshold
- `filter` - a filter callback function

```
License
```

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## 1.116 compression 1.4.1

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# 1.117 compression 1.4.4

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# 1.133 connect-timeout 1.0.0

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# Timeout

Previously `connect.timeout()`.

Usage:

```
```js
var app = require('connect');
app.use(require('timeout')(300))
```
```

## API

### `fn = timeout(ms)`

Returns middleware that times out in `ms` milliseconds.`

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```
"author": "Roman Shtylman <shtylman@gmail.com>",
"url": "git://github.com/shtylman/node-cookie.git"
```

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## 1.146 cookie-parser 1.0.1

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```
cookie-parser
```

Parse `_Cookie_` header and populate `req.cookies`` with an object keyed by the cookie names. Optionally you may enable signed cookie support by passing a ``secret`` string, which assigns `req.secret`` so it may be used by other middleware.

```
```js  
var cookieParser = require('cookie-parser');  
  
connect()  
  .use(cookieParser('optional secret string'))  
  .use(function(req, res, next){  
    res.end(JSON.stringify(req.cookies));  
  })  
```
```

```
install

```shell
npm install cookie-parser
```

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## 1.149 cookie-parser 1.3.4

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## 1.150 cookie-signature 1.0.6

## 1.150.1 Available under license :

# cookie-signature

Sign and unsign cookies.

## Example

```
```js
```

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

```
var val = cookie.sign('hello', 'tobiiscool');
```

```
val.should.equal('hello.DGDUkGIkCzPz+C0B064FNgHdEjox7ch8tOBGslZ5QI');
```

```
var val = cookie.sign('hello', 'tobiiscool');
```

```
cookie.unsign(val, 'tobiiscool').should.equal('hello');
```

```
cookie.unsign(val, 'luna').should.be.false;
```

```
```
```

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# 1.151 cookie-signature 1.0.3

## 1.151.1 Available under license :

```
cookie-signature
```

```
Sign and unsign cookies.
```

```
Example
```

```
```js
```

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

```
var val = cookie.sign('hello', 'tobiiscool');
```

```
val.should.equal('hello.DGDUkGIIkCzPz+C0B064FNgHdEjox7ch8tOBGslZ5QI');
```

```
var val = cookie.sign('hello', 'tobiiscool');
```

```
cookie.unsign(val, 'tobiiscool').should.equal('hello');
```

```
cookie.unsign(val, 'luna').should.be.false;
```

```
```
```

```
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```

```
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```

```
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```

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# 1.152 cookie-signature 1.0.4

## 1.152.1 Available under license :

```
cookie-signature
```

```
Sign and unsign cookies.
```

```
Example
```

```
```js
```

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

```
var val = cookie.sign('hello', 'tobiiscool');
```

```
val.should.equal('hello.DGDUkGIIkCzPz+C0B064FNgHdEjox7ch8tOBGslZ5QI');
```

```
var val = cookie.sign('hello', 'tobiiscool');
```

```
cookie.unsign(val, 'tobiiscool').should.equal('hello');
```

```
cookie.unsign(val, 'luna').should.be.false;
```

```
```
```

```
License
```

```
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```

```
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```

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# 1.153 cookie-signature 1.0.1

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# 1.154 cookie-signature 1.0.5

## 1.154.1 Available under license :

# cookie-signature

Sign and unsign cookies.

## Example

```
```js
```

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

```
var val = cookie.sign('hello', 'tobiiscool');
```

```
val.should.equal('hello.DGDUkGIikCzPz+C0B064FNgHdEjox7ch8tOBGslZ5QI');
```

```
var val = cookie.sign('hello', 'tobiiscool');
```

```
cookie.unsign(val, 'tobiiscool').should.equal('hello');
```



```
cookie.unsign(val, 'luna').should.be.false;
...

```

```
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```

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1.155 cookie-signature 0.0.1

1.155.1 Available under license :

```
# cookie-signature
```

Sign and unsign cookies.

```
## Example
```

```
```js
```

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

```
var val = cookie.sign('hello', 'tobiiscool');
```

```
val.should.equal('hello.DGDUkGIkCzPz+C0B064FNgHdEjox7ch8tOBGslZ5QI');
```

```
var val = cookie.sign('hello', 'tobiiscool');
```

```
cookie.unsign(val, 'tobiiscool').should.equal('hello');
```

```
cookie.unsign(val, 'luna').should.be.false;
```

...

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## 1.156 cookiejar 1.3.0

### 1.156.1 Available under license :

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"author": "bradleymeck"

## 1.157 core-util-is 1.0.1

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```
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```

```
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```

## 1.158 coveralls 2.11.2

### 1.158.1 Available under license :

```
{
 "name": "coveralls",
 "description": "takes json-cov output into stdin and POSTs to coveralls.io",
 "keywords": [
 "coverage",
 "coveralls"
],
 "version": "2.11.2",
 "bugs": {
 "url": "https://github.com/cainus/node-coveralls/issues"
 },
 "scripts": {
 "test": "make test"
 },
 "bin": {
 "coveralls": "./bin/coveralls.js"
 },
 "maintainers": [
 "Gregg Caines <gregg@caines.ca> (http://caines.ca)"
],
 "contributors": [
 "Alan Gutierrez <alan@prettyrobots.com> (http://www.prettyrobots.com/)",
 "Kir Belevich (https://github.com/svg)",
 "elliottcable <github@elliottcable.name> (http://elliottcable.name/)",
 "Slotos <slotos@gmail.com> (http://slotos.net)",
 "mattjmorrisson <mattjmorrisson@mattjmorrisson.com> (http://mattjmorrisson.com)",
 "Arpad Borsos <arpad.borsos@googlemail.com> (http://swatinem.de/)"
],
 "dependencies": {
 "js-yaml": "3.0.1",
 "lcov-parse": "0.0.6",
 "log-driver": "1.2.4",
```

```

 "request": "2.40.0"
 },
 "devDependencies": {
 "sinon-restore": "1.0.0",
 "mocha-lcov-reporter": "0.0.1",
 "mocha": "1.8.1",
 "should": "1.1.0",
 "istanbul": "0.2.10",
 "jshint": "2.1.3"
 },
 "engines": {
 "node": ">=0.8.6"
 },
 "main": "index.js",
 "directories": {
 "test": "test"
 },
 "repository": {
 "type": "git",
 "url": "git://github.com/cainus/node-coveralls.git"
 },
 "author": "Gregg Caines",
 "license": "BSD"
}

```

## 1.159 crc 3.2.1

### 1.159.1 Available under license :

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## 1.160 cryptiles 0.2.2

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\* \* \*

The complete list of contributors can be found at: <https://github.com/hueniverse/cryptiles/graphs/contributors>

## 1.162 crypto 0.0.3

### 1.162.1 Available under license :

```
{
 "name": "crypto",
 "id": "crypto",
 "version": "0.0.3",
 "description": "JavaScript implementations of standard and secure cryptographic algorithms.",
 "keywords": ["crypto", "md5", "sha1"],
 "author": "Irakli Gozalishvili <rfobic@gmail.com>",
 "repository": {
 "type": "git",
 "url": "git://github.com/Gozala/crypto.git",
 "web": "https://github.com/Gozala/crypto"
 },
 "bugs": {
 "url": "http://github.com/Gozala/crypto/issues/"
 },
 "devDependencies": {
 "test": ">=0.0.10"
 },
 "directories": {
 "lib": "./"
 },
 "scripts": {
 "test": "node test/test-crypto.js"
 },
 "licenses": [{
```

```
"type" : "BSD",
"url" : "http://pajhome.org.uk/site/legal.html#bsdlicense"
 }
}
```

## 1.163 csrf 2.0.7

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## 1.164 csrf 2.0.6

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## 1.165 css 1.0.8

### 1.165.1 Available under license :

```
css
```

```
CSS parser / stringifier using [css-parse](https://github.com/visionmedia/css-parse) and [css-stringify](https://github.com/visionmedia/css-stringify).
```

```
Installation
```

```
$ npm install css
```

```
Example
```

```
js:
```

```
```js
var css = require('css')
var obj = css.parse('tobi { name: "tobi" }')
css.stringify(obj);
```
```

```
object returned by `.parse()`:
```

```
```json
{
  "stylesheet": {
    "rules": [
      {
        "selector": "tobi",
        "declarations": [
          {
            "property": "name",
            "value": "tobi"
          }
        ]
      }
    ]
  }
}
```



```
    ]
  }
]
}
}
```
```

string returned by ``.stringify(ast)``:

```
```css
tobi {
  name: tobi;
}
```
```

string returned by ``.stringify(ast, { compress: true })``:

```
```css
tobi{name:tobi}
```
```

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# 1.166 css-parse 1.0.4

## 1.166.1 Available under license :

```
css-parse
```

```
CSS parser.
```

```
Example
```

```
js:
```

```
```js
var parse = require('css-parse')
parse('tobi { name: "tobi" }')
```
```

```
object returned:
```

```
```json
{
  "stylesheet": {
    "rules": [
      {
        "selectors": ["tobi"],
        "declarations": [
          {
            "property": "name",
            "value": "tobi"
          }
        ]
      }
    ]
  }
}
```
```

```
Performance
```

```
Parsed 15,000 lines of CSS (2mb) in 40ms on my macbook air.
```

```
License
```

```
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```

```
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```

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## 1.167 css-stringify 1.0.5

### 1.167.1 Available under license :

```
css-stringify
```

```
CSS compiler using the AST provided by [css-parse](https://github.com/visionmedia/css-parse).
```

```
Performance
```

```
Formats 15,000 lines of CSS (2mb) in 23ms on my macbook air.
```

```
License
```

```
(The MIT License)
```

```
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```

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## 1.168 cssom 0.2.5

### 1.168.1 Available under license :

```
{
 "name": "cssom",
 "description": "CSS Object Model implementation and CSS parser",
 "keywords": ["CSS", "CSSOM", "parser", "styleSheet"],
 "version": "0.2.5",
 "homepage": "https://github.com/NV/CSSOM",
 "author": "Nikita Vasilyev <me@elv1s.ru>",
 "repository": {
 "type": "git",
 "url": "git://github.com/NV/CSSOM.git"
 },
 "bugs": {
 "url": "https://github.com/NV/CSSOM/issues"
 },
 "directories": {
 "lib": "./lib"
 },
 "main": "./lib/index.js",
 "engines": {
 "node": ">=0.2.0"
 },
 "devDependencies": {
 "jake": "0.2.x"
 },
 "licenses": [
 {
 "type": "MIT",
 "url": "http://creativecommons.org/licenses/MIT/"
 }
],
 "scripts": {
 "prepublish": "jake lib/index.js"
 }
}
```

# 1.169 cssom 0.3.0

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# 1.170 cssstyle 0.2.27

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## 1.171 cssstyle 0.2.23

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## 1.172 csurf 1.7.0

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## 1.173 csrf 1.0.0

### 1.173.1 Available under license :

```
{
 "name": "csrf",
 "description": "CSRF token middleware",
 "version": "1.0.0",
 "author": {
 "name": "Jonathan Ong",
 "email": "me@jongleberry.com",
 "url": "http://jongleberry.com",
 "twitter": "https://twitter.com/jongleberry"
 },
 "license": "MIT",
 "repository": {
 "type": "git",
 "url": "https://github.com/expressjs/csrf.git"
 },
 "bugs": {
 "mail": "me@jongleberry.com",
 "url": "https://github.com/expressjs/csrf/issues"
 },
 "dependencies": {
 "uid2": "~0.0.2"
 },
 "devDependencies": {
 "cookie-session": "*",
 "body-parser": "*",
 "mocha": "^1.17.0",
 "should": "^3.0.0",
 "supertest": "*",
 "connect": "*"
 },
 "scripts": {
 "test": "make test"
 }
}
```

# 1.174 ctype 0.5.3

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# 1.175 cycle 1.0.3

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```
"type": "git", "url": "http://github.com/dscape/cycle.git" }
```

# 1.176 cyrus-sasl/libdes 2.1.26 :17.e17

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The implementation was written so as to conform with MIT's libdes.



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# 1.177 data-structures 1.4.2

## 1.177.1 Available under license :

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# 1.178 dateutil 0.1.0

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# 1.179 debug 2.1.1

## 1.179.1 Available under license :

```
debug
```

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

```
Installation
```

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

```
Usage
```

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

Example `_app.js`:

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

// fake app

debug('booting %s', name);

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

// fake worker of some kind

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

Example `_worker.js`:

```
```js
```

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

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

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

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

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

Windows note

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

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

Then, run the program to be debugged as usual.

Millisecond diff

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

```

```

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

```

```

Conventions

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

Wildcards

The ``*`` character may be used as a wildcard. Suppose for example your library has debuggers named `"connect:bodyParser"`, `"connect:compress"`, `"connect:session"`, instead of listing all three with

``DEBUG=connect:bodyParser,connect.compress,connect:session``, you may simply do ``DEBUG=connect:*``, or to run everything using this module simply use ``DEBUG=*``.

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

Browser support

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

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

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

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

Web Inspector Colors

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

Colored output looks something like:

stderr vs stdout

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

Example `_stderr.js_`:

```
``js
var debug = require('./');
var log = debug('app:log');
```

```
// by default console.log is used
log('goes to stdout!');

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

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

```

Authors

- TJ Holowaychuk
- Nathan Rajlich

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1.180 debug 0.7.4

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1.181 debug 0.8.0

1.181.1 Available under license :

debug

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

Installation

...

\$ npm install debug

...

Usage

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

Example `_app.js`:

```

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

// fake app

debug('booting %s', name);

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

// fake worker of some kind

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

```

Example `_worker.js_`:

```

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

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

```

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

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

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

Millisecond diff

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

```

```

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

as shown below:

Conventions

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

Wildcards

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

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

Browser support

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

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

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

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

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1.182 debug 2.2.0

1.182.1 Available under license :

```
# debug
```

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

```
## Installation
```

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

```
## Usage
```

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

Example `_app.js``:

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

// fake app

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

```

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

```

// fake worker of some kind

```

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

```

Example `_worker.js`:

```

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

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

```

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

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

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

Windows note

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

```

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

```

Then, run the program to be debugged as usual.

## Millisecond diff

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

```

```

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

as shown below:



## ## Conventions

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

## ## Wildcards

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

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

## ## Browser support

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

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

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

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

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

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

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

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

#### #### Web Inspector Colors

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

Colored output looks something like:



#### ### stderr vs stdout

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

Example `_stdout.js_`:

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

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

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

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

#### ### Save debug output to a file

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

Example:

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

```
Authors
```

```
- TJ Holowaychuk
- Nathan Rajlich
```

```
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```

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## 1.183 debug 1.0.4

### 1.183.1 Available under license :

```
debug
```

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

```
Installation
```

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

...

Usage

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

Example `_app.js_`:

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

// fake app

debug('booting %s', name);

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

// fake worker of some kind

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

```

Example `_worker.js_`:

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

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

```

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

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

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

Millisecond diff

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

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

Conventions

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

Wildcards

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

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

Browser support

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

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

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

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



### #### Web Inspector Colors

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

Colored output looks something like:



### ### stderr vs stdout

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

Example `_stderr.js_`:

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

// by default console.log is used
log('goes to stdout!');

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

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

### ## Authors

- TJ Holowaychuk
- Nathan Rajlich

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## 1.184 debug 0.8.1

### 1.184.1 Available under license :

```
debug
```

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

```
Installation
```

```

```

```
$ npm install debug
```

```

```

```
Usage
```

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

Example `_app.js`:

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

```
// fake app

debug('booting %s', name);

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

```
// fake worker of some kind
```

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

```

Example `_worker.js`:

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

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

```

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

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

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

```
Millisecond diff
```

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

```

```

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

```

```

```
Conventions
```

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

### ## Wildcards

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

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

### ## Browser support

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

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

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

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

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1.185 debug 2.1.3

1.185.1 Available under license :

```
# debug
```

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

```
## Installation
```

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

```
## Usage
```

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

Example `_app.js``:

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

// fake app

debug('booting %s', name);

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

```
});

// fake worker of some kind

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

```

Example `_worker.js`:

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

```

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

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

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

Windows note

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

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

```

Then, run the program to be debugged as usual.

## Millisecond diff

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

```

```

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

```

```

## Conventions

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

### ## Wildcards

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

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

### ## Browser support

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

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

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

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

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

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

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

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

#### #### Web Inspector Colors

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

Colored output looks something like:



#### ### stderr vs stdout

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

Example `_stdout.js`:

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

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

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

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

#### ## Authors

- TJ Holowaychuk  
- Nathan Rajlich

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# 1.186 decamelize 1.0.0

## 1.186.1 Available under license :

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

> Convert a camelized string into a lowercased one with a custom separator

> Example: `unicornRainbow` → `unicorn\_rainbow`

```
Install
```

```
``sh
$ npm install --save decamelize
``
```

```
Usage
```

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

decamelize('unicornRainbow');
//=> unicorn_rainbow

decamelize('unicornRainbow', '-');
```

```
//=> unicorn-rainbow
```

```
...
```

```
API
```

```
decamelize(input, [separator])
```

```
input
```

```
Required
```

```
Type: `string`
```

```
separator
```

```
Type: `string`
```

```
Default: ` _ `
```

```
Related
```

See [`camelcase`](<https://github.com/sindresorhus/camelcase>) for the inverse.

```
License
```

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

## 1.187 deep-diff 0.2.0

### 1.187.1 Available under license :

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# 1.188 deep-diff 0.1.7

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# 1.189 deep-equal 1.0.0

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# 1.190 delayed-stream 1.0.0

## 1.190.1 Available under license :

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# 1.191 delayed-stream 0.0.5

## 1.191.1 Available under license :

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# 1.192 depd 0.4.4

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# 1.193 depd 1.0.0

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## 1.194 depd 1.0.1

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## 1.195 dequeue 1.0.3

### 1.195.1 Available under license :

NO LICENSE INFORMATION AVAILABLE. Possible Contact (in addition to <https://www.npmjs.com>):

```
"url": "https://github.com/lleo/node-dequeue" }
"bugs" : { "url": "https://github.com/lleo/node-dequeue/issues"
"url": "http://lleo-blog.blogspot.com/" }
```

## 1.196 destroy 1.0.3

## 1.196.1 Available under license :

# Destroy

```
[![NPM version][npm-image]][npm-url]
[![Build status][travis-image]][travis-url]
[![Test coverage][coveralls-image]][coveralls-url]
[![Dependency Status][david-image]][david-url]
[![License][license-image]][license-url]
[![Downloads][downloads-image]][downloads-url]
[![Gittip][gittip-image]][gittip-url]
```

Destroy a stream.

## API

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

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

```
[npm-image]: https://img.shields.io/npm/v/destroy.svg?style=flat-square
[npm-url]: https://npmjs.org/package/destroy
[github-tag]: http://img.shields.io/github/tag/stream-utils/destroy.svg?style=flat-square
[github-url]: https://github.com/stream-utils/destroy/tags
[travis-image]: https://img.shields.io/travis/stream-utils/destroy.svg?style=flat-square
[travis-url]: https://travis-ci.org/stream-utils/destroy
[coveralls-image]: https://img.shields.io/coveralls/stream-utils/destroy.svg?style=flat-square
[coveralls-url]: https://coveralls.io/r/stream-utils/destroy?branch=master
[david-image]: http://img.shields.io/david/stream-utils/destroy.svg?style=flat-square
[david-url]: https://david-dm.org/stream-utils/destroy
[license-image]: http://img.shields.io/npm/l/destroy.svg?style=flat-square
[license-url]: LICENSE.md
[downloads-image]: http://img.shields.io/npm/dm/destroy.svg?style=flat-square
[downloads-url]: https://npmjs.org/package/destroy
[gittip-image]: https://img.shields.io/gittip/jonathanong.svg?style=flat-square
[gittip-url]: https://www.gittip.com/jonathanong/
```

## 1.197 dhcp/bind 4.2.5 :27.el7.centos

### 1.197.1 Notifications :

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The development of Dynamically Loadable Zones (DLZ) for Bind 9 was conceived and contributed by Rob Butler.

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

\* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`: These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream` classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

\* `admin/check-style.sh`, `admin/check-style-common.awk`, `admin/check-style-cpp.awk`, `admin/check-style-shell.awk`: These files, except the first one, were first implemented in the Buildtool project. They were later adapted to be part of Boost.Process and, during that process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

=====  
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2

## 1.198 dhcp/bind/contrib 4.2.5 :27.el7.centos

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dhclient-script for Linux. Dan Halbert, March, 1997.
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#
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## 1.199 dhcp/dhclient-script 4.2.5 :27.el7.centos

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#
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dhclient based on DHCP client communication
#
```

```

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Updated for Linux 2.[12] by Brian J. Murrell, January 1999.
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#

```

## 1.200 dhcping 1.2 :13.el7

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```

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```
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```

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```
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```

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

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```
<HTML>
<HEAD>
<TITLE> Dnsmasq - network services for small networks.</TITLE>
<link rel="icon" href="http://www.thekelleys.org.uk/dnsmasq/images/favicon.ico">
</HEAD>
<BODY BGCOLOR="WHITE">
<table width="100%" border="0" cellpadding="0" cellspacing="0">
<tr>
<td align="left" valign="middle">
```

/></td>

<td align="middle" valign="middle"><h1>Dnsmasq</h1></td>

<td align="right" valign="middle"></td></tr>

</table>

Dnsmasq provides network infrastructure for small networks: DNS, DHCP, router advertisement and network boot.

It is designed to be

lightweight and have a small footprint, suitable for resource constrained routers and firewalls. It has also been widely used

for tethering on smartphones and portable hotspots, and to support virtual networking in virtualisation frameworks.

Supported platforms include Linux (with glibc and uclibc), Android, \*BSD, and Mac OS X. Dnsmasq is included in most

Linux distributions and the ports systems of FreeBSD, OpenBSD and NetBSD. Dnsmasq provides full IPv6 support.

<P>

The DNS subsystem provides a local DNS server for the network, with forwarding of all query types to upstream recursive DNS servers and

cacheing of common record types (A, AAAA, CNAME and PTR, also DNSKEY and DS when DNSSEC is enabled).

<DIR>

<LI>Local DNS names can be defined by reading /etc/hosts, by importing names from the DHCP subsystem, or by configuration of a wide range of useful record types.</LI>

<LI>Upstream servers can be configured in a variety of convenient ways, including dynamic configuration as these change on moving upstream network.

<LI>Authoritative DNS mode allows local DNS names may be exported to zone in the global DNS. Dnsmasq acts as authoritative server for this zone, and also provides

zone transfer to secondaries for the zone, if required.</LI>

<LI>DNSSEC validation may be performed on DNS replies from upstream nameservers, providing security against spoofing and cache poisoning.</LI>

<LI>Specified sub-domains can be directed to their own upstream DNS servers, making VPN configuration easy.</LI>

<LI>Internationalised domain names are supported.

</DIR>

<P>

The DHCP subsystem supports DHCPv4, DHCPv6, BOOTP and PXE.

<DIR>

<LI> Both static and dynamic DHCP leases are supported, along with stateless mode in DHCPv6.</LI>

<LI> The PXE system is a full PXE server, supporting netboot menus and multiple architecture support. It includes proxy-mode, where the PXE system co-operates with another DHCP server.</LI>

<LI> There is a built in read-only TFTP server to support netboot.</LI>

<LI> Machines which are configured by DHCP have their names automatically included in the DNS and the names can specified by each machine or

centrally by associating a name with a MAC address or UID in the dnsmasq configuration file.</LI>

</DIR>

<P>

The Router Advertisement subsystem provides basic autoconfiguration for IPv6 hosts. It can be used stand-alone or in conjunction with DHCPv6.

<DIR>  
<LI> The M and O bits are configurable, to control hosts' use of DHCPv6.</LI>  
<LI> Router advertisements can include the RDNSS option.</LI>  
<LI> There is a mode which uses name information from DHCPv4 configuration to provide DNS entries for autoconfigured IPv6 addresses which would otherwise be anonymous.</LI>  
</DIR>  
<P>

For extra compactness, unused features may be omitted at compile time.

## <H2>Get code.</H2>

<A HREF="http://www.thekelleys.org.uk/dnsmasq/">Download</A> dnsmasq here.  
The tarball includes this documentation, source, and manpage.  
There is also a <A HREF="CHANGELOG"> CHANGELOG</A> and a <A HREF="FAQ">FAQ</A>.

Dnsmasq has a git repository which contains the complete release history of version 2 and development history from 2.60. You can <A HREF="http://thekelleys.org.uk/gitweb/?p=dnsmasq.git;a=summary">browse</A> the repo, or get a copy using git protocol with the command

```
<PRE><TT>git clone git://thekelleys.org.uk/dnsmasq.git </TT></PRE>
```

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## <H2>Contact.</H2>

There is a dnsmasq mailing list at <A HREF="http://lists.thekelleys.org.uk/mailman/listinfo/dnsmasq-discuss">http://lists.thekelleys.org.uk/mailman/listinfo/dnsmasq-discuss</A> which should be the first location for queries, bugreports, suggestions etc. The list is mirrored, with a search facility, at <A HREF="https://www.mail-archive.com/dnsmasq-discuss@lists.thekelleys.org.uk/">https://www.mail-archive.com/dnsmasq-discuss@lists.thekelleys.org.uk/</A>.  
You can contact me at <A HREF="mailto:simon@thekelleys.org.uk">simon@thekelleys.org.uk</A>.

## <H2>Donations.</H2>

Dnsmasq is mainly written and maintained by Simon Kelley. For most of its life, dnsmasq has been a spare-time project.

These days I'm working on it as my main activity.

I don't have an employer or anyone who pays me regularly to work on dnsmasq. If you'd like to make a contribution towards my expenses, please use the donation button below.

```
<form action="https://www.paypal.com/cgi-bin/webscr" method="post" target="_top">
<input type="hidden" name="cmd" value="_s-xclick">
<input type="hidden" name="hosted_button_id" value="V3X9GVW5GX6DA">
```

```
<input type="image" src="https://www.paypalobjects.com/en_US/GB/i/btn/btn_donateCC_LG.gif" border="0"
name="submit" alt="PayPal The safer, easier way to pay online.">

</form>
```

```
</BODY>
```

```
/* dnsmasq is Copyright (c) 2000-2016 Simon Kelley
```

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```
*/
```

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{
 "name": "docco",
 "description": "The Quick and Dirty Literate Programming Documentation Generator",
 "keywords": ["documentation", "docs", "generator", "coffeescript"],
 "author": "Jeremy Ashkenas",
 "version": "0.4.0",
 "licenses": [{
 "type": "MIT",
 "url": "http://opensource.org/licenses/mit-license.php"
 }],
 "engines": {
 "node": ">=0.2.0"
 },
 "directories": {
 "lib": "./lib"
 },
 "dependencies": {
 "commander" : ">=0.5.2"
 },
 "main" : "./lib/docco",
```



```
"bin": {
 "docco": "./bin/docco"
}
}
```

## 1.205 domain 0.0.0

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## 1.206 dtrace-provider 0.2.8

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## 1.209 elasticsearch 1.1.1 :1

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node-elementtree

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## 1.211 emitter-component 1.0.0

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## 1.212 emitter-listener 1.0.1

## 1.213 enum 0.2.5

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# 1.214 enum 0.2.7

## 1.214.1 Available under license :

# Introduction

[![travis](https://img.shields.io/travis/adrai/enum.svg)](https://travis-ci.org/adrai/enum)  
[![npm](https://img.shields.io/npm/v/enum.svg)](https://npmjs.org/package/enum)

Enum is a javascript module that introduces the Enum Type. It works for node.js and in the browser.

# Dependencies

No dependencies!

# Download

Releases for a browser are available for download from GitHub.

Version	Description	Size
enum-0.2.7.js	uncompressed, with comments	[Download](https://raw.githubusercontent.com/adrai/enum/master/enum-0.2.7.js)
enum-0.2.7.min.js	compressed, without comments	[Download](https://raw.githubusercontent.com/adrai/enum/master/enum-0.2.7.min.js)

# Installation (node.js)

```
$ npm install enum
```

# Installation (browser, library is AMD compatible)

```
<script src="enum.js"></script>
```

# Usage

```
// use it as module
var Enum = require('enum');
```

```
// or extend node.js with this new type
require('enum').register();
```

```
// define a simple enum (automatically flaggable -> A: 0x01, B: 0x02, C: 0x04)
```

```

//Uses bitwise 'OR' operation in between the values and creates enumerated constants. For example, if 'Read':1,
'Write':2, then ReadWrite= Read | Write = 1 | 2 = 3;
var myEnum = new Enum(['A', 'B', 'C']);

//define a flagged enum object to create a multicolor option; just pass an array
var myEnum = new Enum([Black, 'Red', 'Green', 'Blue']);
myEnum; //=> Enum {_options: Object, enums: Array[4], Black: EnumItem, Red: EnumItem, Green:
EnumItem.....}
myEnum.isFlaggable; //=> true

for(var i=1; i<8; i++){ console.log(myEnum.get(i).value + '=>' + myEnum.get(i).key)}
1=> Black
2=> Red
3=> Black | Red
4=> Green
5=> Black | Green
6=> Red | Green
7=> Black | Red | Green

// define an enum with own values
var myEnum = new Enum({'A': 1, 'B': 2, 'C': 4});

// if defining a flaggable enum, you can define your own separator (default is '|')
var myEnum = new Enum(['A', 'B', 'C'], { separator: '| ' });

// if you want your enum to have a name define it in the options
var myEnum = new Enum(['A', 'B', 'C'], { name: 'MyEnum' });

// or
var myEnum = new Enum(['A', 'B', 'C'], 'MyEnum');

//define enum type without flag
var myEnum = new Enum({'None': 0, 'Black':1, 'Red': 2, 'Red2': 3, 'Green': 4, 'Blue': 5});
myEnum; //=> Enum {_options: Object, enums: Array[6], None: EnumItem, Black: EnumItem, Red:
EnumItem.....}
myEnum.isFlaggable; //=> false

for(var i=0; i<=5; i++){ console.log(myEnum.get(i).value + '=>' + myEnum.get(i).key)}
0=> None
1=> Black
2=> Red
3=> Red2
4=> Green
5=> Blue

// get your item
myEnum.A

```

```
// or
myEnum.get('A')

// or
myEnum.get(1)

// or
myEnum.get('A | B')

// or
myEnum.get(3)

// get your value
myEnum.A.value

// get your key
myEnum.A.key

// get all items
myEnum.enums // returns all enums in an array

// compare
myEnum.A.is(myEnum.A)

// or
myEnum.A.is('A')

// or
myEnum.A.is(1)

// or
myEnum.A == 'A'

// or
myEnum.A == myEnum.A

// or
myEnum.A === myEnum.A

// check flag
var myItem = myEnum.get(3); // or [myEnum.get('A | B')]
myItem.has(myEnum.A)

// or
```

```

myItem.has('A')

// or
myItem.has(1)

// other functions
myItem.toString() // returns A | C
myItem.toJSON() // returns A | C
myItem.valueOf() // returns A | C

JSON.stringify(myItem) // returns A | C

//Type Safety:
//Newly created enumerable objects are Type-Safe in a way that it's non-configurable and no longer extensible.
//Each EnumItem has a back-reference to a constructor and they are implicitly final.
Object.getOwnPropertyDescriptor(myEnum, 'Red'); //=> Object { value: EnumItem, writable: false, enumerable:
true, configurable: false}
Object.isExtensible(myEnum); //=> false
myEnum instanceof Enum; //=> true

//Instances of Enum created with 'new' from similar objects are not equal
myEnum1=new Enum({'A':1, 'B':2, 'C':4});
myEnum2=new Enum({'A':1, 'B':2, 'C':4});
myEnum1 == myEnum2 //=> false
myEnum1.A == myEnum2.A //=> false
myEnum1.A.value == myEnum2.A.value //=> true

//This enum object has no properties other than those defined during its creation. Existing Data is 'Persistent' and
preserves the original version
myEnum.B.value; //=> 2
myEnum.B = 5; //=> Throws TypeError
delete myEnum.B; //=> false
myEnum.D = 6; //=> doesn't add to the enum object, silently ignores
myEnum.D; // undefined

//Try to define new property throws TypeError
Object.defineProperty(myEnum, D, { value:6, writable:false, enumerable:true });
//=>TypeError: Cannot define property:D, object is not extensible.

```

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## 1.215 epel-release 7 :2

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```

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```

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```

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## 1.216 erlang R16B

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```
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```

```
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\*/

/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.3, July 18th, 2005

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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt>

(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

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[PCRE]

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THE BASIC LIBRARY FUNCTIONS

-----

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

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[Misc C library code]

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*/
```

```

[zlib]
```

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005
```

```
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```

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```
Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu
```

```
The data format used by the zlib library is described by RFCs (Request for
Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt
(zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).
*/
```

```

[edoc, syntax_tools]
```

```
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%%
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%% USA
%%
%% Id
%%
%% @copyright 2001-2003 Richard Carlsson
%% @author Richard Carlsson <richardc@csd.uu.se>
%% [http://www.csd.uu.se/~richardc/]
%% @version { @vsn }
%% @end
%% =====
```

-----  
[leex]

```
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```

[eldap]

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

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```
<one line to give the library's name and a brief idea of what it does.>
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<signature of Ty Coon>, 1 April 1990  
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That's all there is to it!

## 1.218 errorhandler 1.3.6

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## 1.219 errorhandler 1.0.0

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# Error Handler

Previously `connect.errorHandler`.

Usage:

```
```js
var app = require('connect');
app.use(require('errorhandler')());
```

...

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1.221 errorhandler 1.1.1

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```
# errorhandler
```

```
[![NPM version](https://badge.fury.io/js/errorhandler.svg)](http://badge.fury.io/js/errorhandler)
[![Build Status](https://travis-ci.org/expressjs/errorhandler.svg?branch=master)](https://travis-ci.org/expressjs/errorhandler)
[![Coverage Status](https://img.shields.io/coveralls/expressjs/errorhandler.svg?branch=master)](https://coveralls.io/r/expressjs/errorhandler)
```

Previously `connect.errorHandler()`.

```
## Install
```

```
```sh
$ npm install errorhandler
```
```

```
## API
```

```
### errorhandler()
```

Create new middleware to handle errors and respond with content negotiation. This middleware is only intended to be used in a development environment, as the full error stack traces will be send back to the client when an error occurs.

```
## Example
```

```
```js
var connect = require('connect')
var errorhandler = require('errorhandler')

var app = connect()

if (process.env.NODE_ENV === 'development') {
 app.use(errorhandler())
}
```
```

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1.223 escape-html 1.0.1

1.223.1 Available under license :

```
# escape-html

Escape HTML entities

## Example

```js
var escape = require('escape-html');
escape(str);
```

## License

MIT
```

1.224 escape-string-regexp 1.0.3

1.224.1 Available under license :

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

> Escape RegExp special characters

## Install

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

## Usage

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

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

```
//=> how much \$ for a unicorn\?
```

```
new RegExp(escapedString);
...
```

```
License
```

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

## 1.225 escodegen 1.3.3

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## 1.226 esprima 1.0.4

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**Esprima** ([esprima.org](http://esprima.org)) is a high performance, standard-compliant [ECMAScript](<http://www.ecma-international.org/publications/standards/Ecma-262.htm>) parser written in ECMAScript (also popularly known as [JavaScript](<http://en.wikipedia.org/wiki/JavaScript>)). Esprima is created and maintained by [Ariya Hidayat](<http://twitter.com/ariyahidayat>), with the help of [many contributors](<https://github.com/ariya/esprima/contributors>).

Esprima runs on web browsers (IE 6+, Firefox 1+, Safari 3+, Chrome 1+, Konqueror 4.6+, Opera 8+) as well as [Node.js](<http://nodejs.org>).

#### ### Features

- Full support for [ECMAScript 5.1](<http://www.ecma-international.org/publications/standards/Ecma-262.htm>) (ECMA-262)
- Sensible [syntax tree format](<http://esprima.org/doc/index.html#ast>) compatible with Mozilla [Parser AST]([https://developer.mozilla.org/en/SpiderMonkey/Parser\\_API](https://developer.mozilla.org/en/SpiderMonkey/Parser_API))
- Heavily tested (> 550 [unit tests](<http://esprima.org/test/>)) with solid 100% statement coverage)
- Optional tracking of syntax node location (index-based and line-column)
- Experimental support for ES6/Harmony (module, class, destructuring, ...)

Esprima is blazing fast (see the [benchmark suite](<http://esprima.org/test/benchmarks.html>)). It is up to 3x faster than UglifyJS v1 and it is still [competitive](<http://esprima.org/test/compare.html>) with the new generation of fast parsers.

#### ### Applications

Esprima serves as the basis for many popular JavaScript development tools:

- Code coverage analysis: [node-cover](<https://github.com/itay/node-cover>), [Istanbul](<https://github.com/yahoo/Istanbul>)
- Documentation tool: [JFDoc](<https://github.com/thejohnfreeman/jfdoc>),

[JSDuck](<https://github.com/senchalabs/jsduck>)  
- Language extension: [LLJS](<http://mbebenita.github.com/LLJS/>) (low-level JS),  
[Sweet.js](<http://sweetjs.org/>) (macro)  
- ES6/Harmony transpiler: [Six](<https://github.com/matthewrobb/six>),  
[Harmonizr](<https://github.com/jdiamond/harmonizr>)  
- Eclipse Orion smart editing ([outline view](<https://github.com/aclement/esprima-outline>), [content assist](<http://contraptionsforprogramming.blogspot.com/2012/02/better-javascript-content-assist-in.html>))  
- Source code modification: [Esmorph](<https://github.com/ariya/esmorph>), [Code Painter](<https://github.com/fawek/codepainter>),  
- Source transformation: [node-falafel](<https://github.com/substack/node-falafel>),  
[Esmangle](<https://github.com/Constellation/esmangle>), [escodegen](<https://github.com/Constellation/escodegen>)

### ### Questions?

- [Documentation](<http://esprima.org/doc>)  
- [Issue tracker](<http://issues.esprima.org>): [known problems](<http://code.google.com/p/esprima/issues/list?q=Defect>) and [future plans](<http://code.google.com/p/esprima/issues/list?q=Enhancement>)  
- [Mailing list](<http://groups.google.com/group/esprima>)  
- [Contribution guide](<http://esprima.org/doc/index.html#contribution>)

Follow [[@Esprima](http://twitter.com/Esprima)](<http://twitter.com/Esprima>) on Twitter to get the development updates.

Feedback and contribution are welcomed!

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#### ### Features

- Full support for ECMAScript 5.1 ([ECMA-262](<http://www.ecma-international.org/publications/standards/Ecma-262.htm>))
- Sensible [syntax tree format](<http://esprima.org/doc/index.html#ast>) compatible with Mozilla [Parser AST]([https://developer.mozilla.org/en/SpiderMonkey/Parser\\_API](https://developer.mozilla.org/en/SpiderMonkey/Parser_API))
- Optional tracking of syntax node location (index-based and line-column)
- Heavily tested (> 650 [unit tests](<http://esprima.org/test/>)) with [full code coverage](<http://esprima.org/test/coverage.html>)
- [Partial support](<http://esprima.org/doc/es6.html>) for ECMAScript 6

Esprima serves as a **building block** for some JavaScript language tools, from [code instrumentation](<http://esprima.org/demo/functiontrace.html>) to [editor autocompletion](<http://esprima.org/demo/autocomplete.html>).

Esprima runs on many popular web browsers, as well as other ECMAScript platforms such as [Rhino](<http://www.mozilla.org/rhino>), [Nashorn](<http://openjdk.java.net/projects/nashorn/>), and [Node.js](<https://npmjs.org/package/esprima>).

For more information, check the web site [[esprima.org](http://esprima.org)](<http://esprima.org>).

## 1.228 esprima 1.1.1

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#### ### Features

- Full support for ECMAScript 5.1 ([ECMA-262](http://www.ecma-international.org/publications/standards/Ecma-262.htm))
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- Optional tracking of syntax node location (index-based and line-column)
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- Experimental support for ES6/Harmony (module, class, destructuring, ...)

Esprima serves as a **building block** for some JavaScript language tools, from [code instrumentation](http://esprima.org/demo/functiontrace.html) to [editor autocompletion](http://esprima.org/demo/autocomplete.html).

Esprima runs on many popular web browsers, as well as other ECMAScript platforms such as [Rhino](http://www.mozilla.org/rhino) and [Node.js](https://npmjs.org/package/esprima).

For more information, check the web site [esprima.org](http://esprima.org).

## 1.229 esprima 2.0.0

### 1.229.1 Available under license :

**Esprima** ([esprima.org](http://esprima.org), BSD license) is a high performance, standard-compliant [ECMAScript](http://www.ecma-international.org/publications/standards/Ecma-262.htm) parser written in ECMAScript (also popularly known as [JavaScript](http://en.wikipedia.org/wiki/JavaScript>JavaScript)).  
Esprima is created and maintained by [Ariya Hidayat](http://twitter.com/ariyahidayat), with the help of [many contributors](https://github.com/jquery/esprima/contributors).

#### ### Features

- Full support for ECMAScript 5.1 ([ECMA-262](http://www.ecma-international.org/publications/standards/Ecma-262.htm))
- Sensible [syntax tree format](http://esprima.org/doc/index.html#ast) compatible with Mozilla [Parser AST](https://developer.mozilla.org/en/SpiderMonkey/Parser\_API)
- Optional tracking of syntax node location (index-based and line-column)
- Heavily tested (> 700 [unit tests](http://esprima.org/test/)) with [full code coverage](http://esprima.org/test/coverage.html)
- [Partial support](http://esprima.org/doc/es6.html) for ECMAScript 6

Esprima serves as a **building block** for some JavaScript language tools, from [code instrumentation](http://esprima.org/demo/functiontrace.html) to [editor autocompletion](http://esprima.org/demo/autocomplete.html).

Esprima runs on many popular web browsers, as well as other ECMAScript platforms such as [Rhino](http://www.mozilla.org/rhino), [Nashorn](http://openjdk.java.net/projects/nashorn/), and [Node.js](https://npmjs.org/package/esprima).

For more information, check the web site [esprima.org](http://esprima.org).

# 1.230 estraverse 1.5.1

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# 1.231 esutils 1.0.0

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esutils ([esutils](<http://github.com/Constellation/esutils>)) is utility box for ECMAScript language tools.

```
Functions
```

```
code.isDecimalDigit(code)
```

Return true if provided code is decimal digit.

```
code.isHexDigit(code)
```

Return true if provided code is hexadecimal digit.

```
code.isOctalDigit(code)
```

Return true if provided code is octal digit.

```
code.isWhiteSpace(code)
```

Return true if provided code is white space. White space characters are formally defined in ECMA262.

```
code.isLineTerminator(code)
```

Return true if provided code is line terminator. Line terminator characters are formally defined in ECMA262.

```
code.isIdentifierStart(code)
```

Return true if provided code can be the first character of ECMA262 Identifier. They are formally defined in ECMA262.

```
code.isIdentifierPart(code)
```

Return true if provided code can be the trailing character of ECMA262 Identifier. They are formally defined in ECMA262.

```
keyword
```

```
keyword.isKeywordES5(id, strict)
```

Return true if provided identifier string is one of Keywords in ECMA262 5.1. They are formally defined in ECMA262.

If strict flag is true, this function additionally checks whether id is keyword under strict mode.

```
keyword.isKeywordES6(id, strict)
```

Return true if provided identifier string is one of Keywords in ECMA262 6. They are formally defined in ECMA262.

If strict flag is true, this function additionally checks whether id is keyword under strict mode.

```
keyword.isRestrictedWord(id)
```

Return true if provided identifier string is one of restricted words under strict mode: "eval" or "arguments". They are formally defined in ECMA262.

```
keyword.isIdentifierName(id)
```

Return true if provided identifier string can be IdentifierName.

They are formally defined in ECMA262.

```
License
```

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## 1.232 etag 1.6.0

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# 1.234 eventemitter3 1.1.0

## 1.234.1 Available under license :

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## 1.235 eventemitter3 0.1.6

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## 1.236 eventlog 0.2.13 :4.e17

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This package was debianized by SZALAY Attila <sasa@balabit.hu> on Tue May 24 20:33:23 CEST 2005

The original source can always be found at:  
<http://www.balabit.hu/downloads/syslog-ng/1.9/src/>

Upstream Author: Scheidler Balazs <bazsi@balabit.hu>

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- \* Author: Balazs Scheidler

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## 1.237 events 1.0.0

### 1.237.1 Available under license :

```
{
 "name": "events",
 "id": "events",
 "version": "1.0.0",
 "description": "Node's event emitter for all engines.",
 "keywords": [
 "events",
 "eventEmitter",
 "eventDispatcher",
 "listeners"
],
 "author": "Irakli Gozalishvili <rfobic@gmail.com> (http://jedikit.com)",
 "repository": {
 "type": "git",
 "url": "git://github.com/Gozala/events.git",
 "web": "https://github.com/Gozala/events"
 },
 "bugs": {
```

```

 "url": "http://github.com/GoZala/events/issues/"
 },
 "main": "./events.js",
 "engines": {
 "node": ">=0.4.x"
 },
 "devDependencies": {
 "mocha": "1.15.1",
 "zuul": "~1.0.6"
 },
 "scripts": {
 "test": "mocha --ui qunit -- tests/index.js && zuul -- tests/index.js"
 },
 "licenses": [
 {
 "type": "MIT",
 "url": "http://jeditoolkit.com/LICENSE"
 }
]
}

```

## 1.238 events 1.0.2

### 1.238.1 Available under license :

MIT

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# 1.239 expat\_PrintPath 2.1.0 :8.e17

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```
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## 1.240 expect 1.4.0

### 1.240.1 Available under license :

[![npm package](<https://img.shields.io/npm/v/expect.svg?style=flat-square>)](<https://www.npmjs.org/package/expect>)

[![build status](<https://img.shields.io/travis/mjackson/expect.svg?style=flat-square>)](<https://travis-ci.org/mjackson/expect>)

[![dependency status](<https://img.shields.io/david/mjackson/expect.svg?style=flat-square>)](<https://david-dm.org/mjackson/expect>)

[![code climate](<https://img.shields.io/codeclimate/github/mjackson/expect.svg?style=flat-square>)](<https://codeclimate.com/github/mjackson/expect>)

[expect](<https://github.com/mjackson/expect>) is a thin wrapper around node's [assert](<http://nodejs.org/api/assert.html>) module that lets you write better assertions.

When you use expect, you write assertions similarly to how you would say them, e.g. "I expect this value to be equal to 3" or "I expect this array to contain 3". When you write assertions in this way, you don't need to remember the order of actual and expected arguments to functions like `assert.equal`, which helps you write better tests.

### Usage

#### expect(object).toBe(value, [message])

Asserts that `object` is strictly equal to value` using [assert.strictEqual](http://nodejs.org/api/assert.html#assert\_assert\_strictequal\_actual\_expected\_message).`

#### expect(object).toBeNot(value, [message])

Asserts that `object` is not strictly equal to value` using [assert.notStrictEqual](http://nodejs.org/api/assert.html#assert\_assert\_notstrictequal\_actual\_expected\_message).`

#### expect(object).toEqual(value, [message])

Asserts that the given `object` equals `value` using  
[assert.equal](http://nodejs.org/api/assert.html#assert\_assert\_equal\_actual\_expected\_message).

#### expect(object).toNotEqual(value, [message])

Asserts that the given `object` is not equal to `value` using  
[assert.notEqual](http://nodejs.org/api/assert.html#assert\_assert\_notequal\_actual\_expected\_message).

#### expect(block).toThrow([error], [message])

Asserts that the given `block` throws an error using  
[assert.throws](http://nodejs.org/api/assert.html#assert\_assert\_throws\_block\_error\_message). The `error` argument may be a constructor, `RegExp`, or validation function.

```
```js
expect(function () {
  throw new Error('boom!');
}).toThrow(/boom/);
```
```

#### expect(block).toNotThrow([message])

Asserts that the given `block` does not throw using  
[assert.doesNotThrow](http://nodejs.org/api/assert.html#assert\_assert\_doesnotthrow\_block\_message).

#### expect(object).toExist([message])

Asserts the given `object` is truthy.

```
```js
expect('something truthy').toExist();
```
```

#### expect(object).toNotExist([message])

Asserts the given `object` is falsy.

```
```js
expect(null).toNotExist();
```
```

#### expect(object).toBeA(constructor, [message])

#### expect(object).toBeAn(constructor, [message])

Asserts the given `object` is an `instanceof constructor`.



```
```js
expect(new User).toBeA(User);
expect(new Asset).toBeAn(Asset);
```
```

```
expect(object).toBeA(string, [message])
```

Asserts the `typeof` the given `object` is `string`.

```
```js
expect(2).toBeA('number');
```
```

```
expect(string).toMatch(pattern, [message])
```

Asserts the given `string` matches `pattern`, which must be a `RegExp`.

```
```js
expect('a string').toMatch(/string/);
```
```

```
expect(number).toBeLessThan(value, [message])
expect(number).toBeFewerThan(value, [message])
```

Asserts the given `number` is less than `value`.

```
```js
expect(2).toBeLessThan(3);
```
```

```
expect(number).toBeGreaterThan(value, [message])
expect(number).toBeMoreThan(value, [message])
```

Asserts the given `number` is greater than `value`.

```
```js
expect(3).toBeGreaterThan(2);
```
```

```
expect(array).toInclude(value, [comparator], [message])
expect(array).toContain(value, [comparator], [message])
```

Asserts the given `array` contains `value`. The `comparator` function, if given, should compare two objects and either `return false` or `throw` if they are not equal. It defaults to `assert.deepEqual`.

```
```js
expect([ 1, 2, 3 ]).toInclude(3);
```
```

```
...
```

```
expect(array).toExclude(value, [comparator], [message])
expect(array).toNotContain(value, [comparator], [message])
```

Asserts the given `array` does not contain `value`. The `comparator` function, if given, should compare two objects and either `return false` or `throw` if they are not equal. It defaults to `assert.deepEqual`.

```
```js  
expect([ 1, 2, 3 ]).toExclude(4);  
...
```

```
#### expect(string).toInclude(value, [message])  
#### expect(string).toContain(value, [message])
```

Asserts the given `string` contains `value`.

```
```js  
expect('hello world').toInclude('world');
expect('hello world').toContain('world');
...
```

```
expect(string).toExclude(value, [message])
expect(string).toNotContain(value, [message])
```

Asserts the given `string` does not contain `value`.

```
```js  
expect('hello world').toExclude('goodbye');  
expect('hello world').toNotContain('goodbye');  
...
```

Chaining Assertions

Every assertion returns an `Expectation` object, so you can chain assertions together.

```
```js  
expect(3.14)
 .toExist()
 .toBeLessThan(4)
 .toBeGreaterThan(3);
...
```

### ### Installation

Using [npm](https://www.npmjs.org/):

```
$ npm install expect
```

Or, include `dist/expect.min.js` in your page using a `<script>` tag:

```
```html
<script src="expect.min.js"></script>
```
```

### ### Issues

Please file issues on the [issue tracker on GitHub](https://github.com/mjackson/expect/issues).

### ### Tests

To run the tests in node:

```
$ npm install
$ npm test
```

To run the tests in Chrome:

```
$ npm install
$ npm run test-browser
```

### ### License

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## 1.241 expect 0.1.1

### 1.241.1 Available under license :

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When you use expect, you write assertions similarly to how you would say them, e.g. "I expect this value to be equal to 3" or "I expect this array to contain 3". When you write assertions in this way, you don't need to remember the order of actual and expected arguments to functions like `assert.equal`, which helps you write better tests.

### ### API

```
expect(object).toBe(value, [message])
```

Asserts that `object` is strictly equal to `value` using [assert.strictEqual](http://nodejs.org/api/assert.html#assert\_assert\_strictequal\_actual\_expected\_message).

```
expect(object).toBeNotBe(value, [message])
```

Asserts that `object` is not strictly equal to `value` using

[assert.notStrictEqual](http://nodejs.org/api/assert.html#assert\_assert\_notstrictequal\_actual\_expected\_message).

#### expect(object).toEqual(value, [message])

Asserts that the given `object` equals `value` using

[assert.equal](http://nodejs.org/api/assert.html#assert\_assert\_equal\_actual\_expected\_message).

#### expect(object).toNotEqual(value, [message])

Asserts that the given `object` is not equal to `value` using

[assert.notEqual](http://nodejs.org/api/assert.html#assert\_assert\_notequal\_actual\_expected\_message).

#### expect(block).toThrow([error], [message])

Asserts that the given `block` throws an error using

[assert.throws](http://nodejs.org/api/assert.html#assert\_assert\_throws\_block\_error\_message). The `error` argument may be a constructor, `RegExp`, or validation function.

```
```js
expect(function () {
  throw new Error('boom!');
}).toThrow(/boom/);
```
```

#### expect(block).toNotThrow([message])

Asserts that the given `block` does not throw using

[assert.doesNotThrow](http://nodejs.org/api/assert.html#assert\_assert\_doesnotthrow\_block\_message).

#### expect(object).toBeA(constructor, [message])

Asserts the given `object` is an `instanceof constructor`.

```
```js
expect(new User).toBeA(User);
```
```

#### expect(string).toMatch(pattern, [message])

Asserts the given `string` matches `pattern`, which must be a `RegExp`.

```
```js
expect('a string').toMatch(/string/);
```
```

#### expect(number).toBeLessThan(value, [message])

Asserts the given `number` is less than `value`.

```
```js
expect(2).toBeLessThan(3);
```
```

```
expect(number).toBeGreaterThan(value, [message])
```

Asserts the given `number` is greater than `value`.

```
```js
expect(3).toBeGreaterThan(2);
```
```

```
expect(array).toContain(value, [comparator], [message])
```

Asserts the given `array` contains `value`. The `comparator` function, if given, should compare two objects and either `return false` or `throw` if they are not equal. It defaults to `assert.deepEqual`.

```
```js
expect([ 1, 2, 3 ]).toContain(3);
```
```

```
expect(array).toContainEqual(value, [comparator], [message])
```

Asserts the given `array` does not contain `value`. The `comparator` function, if given, should compare two objects and either `return false` or `throw` if they are not equal. It defaults to `assert.deepEqual`.

```
```js
expect([ 1, 2, 3 ]).toContainEqual(4);
```
```

```
License
```

```
MIT
```

## 1.242 expect.js 0.3.1

### 1.242.1 Available under license :

```
Expect
```

Minimalistic BDD assertion toolkit based on  
[should.js](http://github.com/visionmedia/should.js)

```
```js
expect(window.r).toBe(undefined);
expect({ a: 'b' }).toEqual({ a: 'b' })
expect(5).toBe.a('number');
```

```
expect([]).to.be.an('array');
expect(window).not.to.be.an(Image);
...

```

Features

- Cross-browser: works on IE6+, Firefox, Safari, Chrome, Opera.
- Compatible with all test frameworks.
- Node.JS ready (^require('expect.js')).
- Standalone. Single global with no prototype extensions or shims.

How to use

Node

Install it with NPM or add it to your `package.json`:

```
...
$ npm install expect.js
...

```

Then:

```
```js
var expect = require('expect.js');
...

```

### ### Browser

Expose the `expect.js` found at the top level of this repository.

```
```html
<script src="expect.js"></script>
...

```

API

ok: asserts that the value is `_truthy_` or not

```
```js
expect(1).to.be.ok();
expect(true).to.be.ok();
expect({}).to.be.ok();
expect(0).to.not.be.ok();
...

```

**be** / **equal**: asserts `===` equality

```
```js
expect(1).to.be(1)
expect(NaN).not.to.equal(NaN);
expect(1).not.to.be(true)
expect('1').to.not.be(1);
```
```

**\*\*eql\*\***: asserts loose equality that works with objects

```
```js
expect({ a: 'b' }).to.eql({ a: 'b' });
expect(1).to.eql('1');
```
```

**\*\*a\*\*/\*\*an\*\***: asserts ``typeof`` with support for ``array`` type and ``instanceof``

```
```js
// typeof with optional `array`
expect(5).to.be.a('number');
expect([]).to.be.an('array'); // works
expect([]).to.be.an('object'); // works too, since it uses `typeof`

// constructors
expect(5).to.be.a(Number);
expect([]).to.be.an(Array);
expect(tobi).to.be.a(Ferret);
expect(person).to.be.a(Mammal);
```
```

**\*\*match\*\***: asserts ``String`` regular expression match

```
```js
expect(program.version).to.match(/[0-9]+\.[0-9]+\.[0-9]+/);
```
```

**\*\*contain\*\***: asserts `indexOf` for an array or string

```
```js
expect([1, 2]).to.contain(1);
expect('hello world').to.contain('world');
```
```

**\*\*length\*\***: asserts array ``.length``

```
```js
expect([]).to.have.length(0);
expect([1,2,3]).to.have.length(3);
```
```

**\*\*empty\*\***: asserts that an array is empty or not

```
```js
expect([]).to.be.empty();
expect({}).to.be.empty();
expect({ length: 0, duck: 'typing' }).to.be.empty();
expect({ my: 'object' }).to.not.be.empty();
expect([1,2,3]).to.not.be.empty();
```
```

**\*\*property\*\***: asserts presence of an own property (and value optionally)

```
```js
expect(window).to.have.property('expect')
expect(window).to.have.property('expect', expect)
expect({ a: 'b' }).to.have.property('a');
```
```

**\*\*key\*\*/\*\*keys\*\***: asserts the presence of a key. Supports the `only` modifier

```
```js
expect({ a: 'b' }).to.have.key('a');
expect({ a: 'b', c: 'd' }).to.only.have.keys('a', 'c');
expect({ a: 'b', c: 'd' }).to.only.have.keys(['a', 'c']);
expect({ a: 'b', c: 'd' }).to.not.only.have.key('a');
```
```

**\*\*throwException\*\*/\*\*throwError\*\***: asserts that the `Function` throws or not when called

```
```js
expect(fn).to.throwError(); // synonym of throwException
expect(fn).to.throwException(function (e) { // get the exception object
  expect(e).to.be.a(SyntaxError);
});
expect(fn).to.throwException(/matches the exception message/);
expect(fn2).to.not.throwException();
```
```

**\*\*withArgs\*\***: creates anonymous function to call fn with arguments

```
```js
expect(fn).withArgs(invalid, arg).to.throwException();
expect(fn).withArgs(valid, arg).to.not.throwException();
```
```

**\*\*within\*\***: asserts a number within a range



```
```js
expect(1).to.be.within(0, Infinity);
```
```

**\*\*greaterThan\*\***/**\*\*above\*\***: asserts `>`

```
```js
expect(3).to.be.above(0);
expect(5).to.be.greaterThan(3);
```
```

**\*\*lessThan\*\***/**\*\*below\*\***: asserts `<`

```
```js
expect(0).to.be.below(3);
expect(1).to.be.lessThan(3);
```
```

**\*\*fail\*\***: explicitly forces failure.

```
```js
expect().fail()
expect().fail("Custom failure message")
```
```

## Using with a test framework

For example, if you create a test suite with [mocha](<http://github.com/visionmedia/mocha>).

Let's say we wanted to test the following program:

**\*\*math.js\*\***

```
```js
function add (a, b) { return a + b; };
```
```

Our test file would look like this:

```
```js
describe('test suite', function () {
  it('should expose a function', function () {
    expect(add).to.be.a('function');
  });

  it('should do math', function () {
    expect(add(1, 3)).to.equal(4);
  });
});
```
```

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

If a certain expectation fails, an exception will be raised which gets captured and shown/processed by the test runner.

```
Differences with should.js
```

- No need for static `should` methods like `should.strictEqual`. For example, `expect(obj).to.be(undefiend)` works well.
- Some API simplifications / changes.
- API changes related to browser compatibility.

```
Running tests
```

Clone the repository and install the developer dependencies:

```
...
git clone git://github.com/LearnBoost/expect.js.git expect
cd expect && npm install
...
```

```
Node
```

```
`make test`
```

```
Browser
```

```
`make test-browser`
```

and point your browser(s) to `http://localhost:3000/test/`

```
Credits
```

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# 1.258 express-session 1.0.2

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```
{
 "name": "express-session",
 "version": "1.0.2",
 "author": "TJ Holowaychuk <tj@vision-media.ca> (http://tjholowaychuk.com)",
 "main": "./index.js",
 "dependencies": {
 "utils-merge": "1.0.0",
 "cookie": "0.1.0",
 "cookie-signature": "1.0.3",
 "uid2": "0.0.3",
 "buffer-crc32": "0.2.1",
 "debug": "0.7.4"
 },
 "devDependencies": {
 "mocha": "~1.17.0",
 "connect": "2.13.0",
 "supertest": "0.9.0",
 "should": "3.1.2",
 "cookie-parser": "1.0.0"
 },
 "scripts": {
 "test": "mocha --bail --ui bdd --reporter list -- test/*.js"
 },
 "license": "MIT"
}
```

# 1.259 extend 1.2.1

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```
[![Build Status][1]][2] [![dependency status][9]][10] [![dev dependency status][11]][12]
```

```
extend() for Node.js ^{[![Version Badge][8]][3]}
```

`node-extend` is a port of the classic extend() method from jQuery. It behaves as you expect. It is simple, tried and true.

```
Installation
```

This package is available on [npm][3] as: `extend`

```
``` sh
npm install extend
```
```

## ## Usage

**\*\*Syntax:\*\*** extend **\*\***(**\*\*** [ `deep` ], `target`, `object1`, [ `objectN` ] **\*\***)**\*\***

\*Extend one object with one or more others, returning the modified object.\*

Keep in mind that the target object will be modified, and will be returned from extend().

If a boolean true is specified as the first argument, extend performs a deep copy, recursively copying any objects it finds. Otherwise, the copy will share structure with the original object(s).

Undefined properties are not copied. However, properties inherited from the object's prototype will be copied over.

## ### Arguments

\* `deep` \*Boolean\* (optional)

If set, the merge becomes recursive (i.e. deep copy).

\* `target` \*Object\*

The object to extend.

\* `object1` \*Object\*

The object that will be merged into the first.

\* `objectN` \*Object\* (Optional)

More objects to merge into the first.

## ## License

`node-extend` is licensed under the [MIT License][4].

## ## Acknowledgements

All credit to the jQuery authors for perfecting this amazing utility.

Ported to Node.js by [Stefan Thomas][5] with contributions by [Jonathan Buchanan][6] and [Jordan Harband][7].

[1]: <https://travis-ci.org/justmoon/node-extend.png>

[2]: <https://travis-ci.org/justmoon/node-extend>

[3]: <https://npmjs.org/package/extend>

[4]: <http://opensource.org/licenses/MIT>

[5]: <https://github.com/justmoon>

[6]: <https://github.com/insin>

[7]: <https://github.com/ljharb>

[8]: <http://vb.teelaun.ch/justmoon/node-extend.svg>

[9]: <https://david-dm.org/justmoon/node-extend.png>

[10]: <https://david-dm.org/justmoon/node-extend>

[11]: <https://david-dm.org/justmoon/node-extend/dev-status.png>

[12]: <https://david-dm.org/justmoon/node-extend#info=devDependencies>

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This package was debianized by Jacob Helwig <jacob@puppetlabs.com> on Sat, 11 Dec 2010 21:11:11 -0800

It was downloaded from <http://www.puppetlabs.com/>

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## 1.268 finished 1.2.2

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# finished

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Status](https://img.shields.io/coveralls/expressjs/finished.svg?branch=master)](https://coveralls.io/r/expressjs/finished)

Execute a callback when a request closes, finishes, or errors.

#### #### Install

```
```sh
$ npm install finished
```
```

#### #### Uses

This is useful for cleaning up streams. For example, you want to destroy any file streams you create on socket errors otherwise you will leak file descriptors.

This is required to fix what many perceive as issues with node's streams. Relevant:

- [node#6041](https://github.com/joyent/node/issues/6041)
- [koa#184](https://github.com/koajs/koa/issues/184)
- [koa#165](https://github.com/koajs/koa/issues/165)

#### ## API

##### ### finished(response, callback)

```
```js
var onFinished = require('finished')

onFinished(res, function (err) {
  // do something maybe
})
```
```

##### ### Examples

The following code ensures that file descriptors are always closed once the response finishes.

##### #### Node / Connect / Express

```
```js
var onFinished = require('finished')

function (req, res, next) {
  var stream = fs.createReadStream('thingie.json')
  stream.pipe(res)
  onFinished(res, function (err) {
    stream.destroy()
  })
}
```
```

```
Koa

```js
function* () {
  var stream = this.body = fs.createReadStream('thingie.json')
  onFinished(this, function (err) {
    stream.destroy()
  })
}
```
```

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## 1.274 formidable 1.0.11

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# Formidable

[![Build Status](https://secure.travis-ci.org/felixge/node-formidable.png?branch=master)](http://travis-ci.org/felixge/node-formidable)

## Purpose

A node.js module for parsing form data, especially file uploads.

## Current status

This module was developed for [Transloadit](<http://transloadit.com/>), a service focused on uploading and encoding images and videos. It has been battle-tested against hundreds of GB of file uploads from a large variety of clients and is considered production-ready.

## ## Features

- \* Fast (~500mb/sec), non-buffering multipart parser
- \* Automatically writing file uploads to disk
- \* Low memory footprint
- \* Graceful error handling
- \* Very high test coverage

## ## Changelog

### ### v1.0.9

- \* Emit progress when content length header parsed (Tim Koschützki)
- \* Fix Readme syntax due to GitHub changes (goob)
- \* Replace references to old 'sys' module in Readme with 'util' (Peter Sugihara)

### ### v1.0.8

- \* Strip potentially unsafe characters when using `keepExtensions: true`.
- \* Switch to utest / urun for testing
- \* Add travis build

### ### v1.0.7

- \* Remove file from package that was causing problems when installing on windows. (#102)
- \* Fix typos in Readme (Jason Davies).

### ### v1.0.6

- \* Do not default to the default to the field name for file uploads where filename="".

### ### v1.0.5

- \* Support filename="" in multipart parts
- \* Explain unexpected end() errors in parser better

**Note:** Starting with this version, formidable emits 'file' events for empty file input fields. Previously those were incorrectly emitted as regular file input fields with value = "".

### ### v1.0.4

\* Detect a good default tmp directory regardless of platform. (#88)

### ### v1.0.3

- \* Fix problems with utf8 characters (#84) / semicolons in filenames (#58)
- \* Small performance improvements
- \* New test suite and fixture system

### ### v1.0.2

- \* Exclude node\\_modules folder from git
- \* Implement new `aborted` event
- \* Fix files in example folder to work with recent node versions
- \* Make gently a devDependency

[See Commits](<https://github.com/felixge/node-formidable/compare/v1.0.1...v1.0.2>)

### ### v1.0.1

- \* Fix package.json to refer to proper main directory. (#68, Dean Landolt)

[See Commits](<https://github.com/felixge/node-formidable/compare/v1.0.0...v1.0.1>)

### ### v1.0.0

- \* Add support for multipart boundaries that are quoted strings. (Jeff Craig)

This marks the beginning of development on version 2.0 which will include several architectural improvements.

[See Commits](<https://github.com/felixge/node-formidable/compare/v0.9.11...v1.0.0>)

### ### v0.9.11

- \* Emit `progress` event when receiving data, regardless of parsing it. (Tim Koschützki)
- \* Use [W3C FileAPI Draft](<http://dev.w3.org/2006/webapi/FileAPI/>) properties for File class

**\*\*Important:\*\*** The old property names of the File class will be removed in a future release.

[See Commits](<https://github.com/felixge/node-formidable/compare/v0.9.10...v0.9.11>)

### ### Older releases

These releases were done before starting to maintain the above Changelog:

- \* [v0.9.10](<https://github.com/felixge/node-formidable/compare/v0.9.9...v0.9.10>)
- \* [v0.9.9](<https://github.com/felixge/node-formidable/compare/v0.9.8...v0.9.9>)

- \* [v0.9.8](https://github.com/felixge/node-formidable/compare/v0.9.7...v0.9.8)
- \* [v0.9.7](https://github.com/felixge/node-formidable/compare/v0.9.6...v0.9.7)
- \* [v0.9.6](https://github.com/felixge/node-formidable/compare/v0.9.5...v0.9.6)
- \* [v0.9.5](https://github.com/felixge/node-formidable/compare/v0.9.4...v0.9.5)
- \* [v0.9.4](https://github.com/felixge/node-formidable/compare/v0.9.3...v0.9.4)
- \* [v0.9.3](https://github.com/felixge/node-formidable/compare/v0.9.2...v0.9.3)
- \* [v0.9.2](https://github.com/felixge/node-formidable/compare/v0.9.1...v0.9.2)
- \* [v0.9.1](https://github.com/felixge/node-formidable/compare/v0.9.0...v0.9.1)
- \* [v0.9.0](https://github.com/felixge/node-formidable/compare/v0.8.0...v0.9.0)
- \* [v0.9.0](https://github.com/felixge/node-formidable/compare/v0.8.0...v0.9.0)
- \* [v0.9.0](https://github.com/felixge/node-formidable/compare/v0.8.0...v0.9.0)
- \* [v0.9.0](https://github.com/felixge/node-formidable/compare/v0.8.0...v0.9.0)
- \* [v0.9.0](https://github.com/felixge/node-formidable/compare/v0.8.0...v0.9.0)
- \* [v0.9.0](https://github.com/felixge/node-formidable/compare/v0.8.0...v0.9.0)
- \* [v0.9.0](https://github.com/felixge/node-formidable/compare/v0.8.0...v0.9.0)
- \* [v0.9.0](https://github.com/felixge/node-formidable/compare/v0.8.0...v0.9.0)
- \* [v0.1.0](https://github.com/felixge/node-formidable/commits/v0.1.0)

## ## Installation

Via [npm](http://github.com/isaacs/npm):

```
npm install formidable@latest
```

Manually:

```
git clone git://github.com/felixge/node-formidable.git formidable
vim my.js
var formidable = require('./formidable');
```

Note: Formidable requires [gently](http://github.com/felixge/node-gently) to run the unit tests, but you won't need it for just using the library.

## ## Example

Parse an incoming file upload.

```
var formidable = require('formidable'),
 http = require('http'),

 util = require('util');

http.createServer(function(req, res) {
 if (req.url == '/upload' && req.method.toLowerCase() == 'post') {
 // parse a file upload
 var form = new formidable.IncomingForm();
 form.parse(req, function(err, fields, files) {
 res.writeHead(200, {'content-type': 'text/plain'});
```

```

 res.write('received upload:\n\n');
 res.end(util.inspect({fields: fields, files: files}));
 });
 return;
}

// show a file upload form
res.writeHead(200, {'content-type': 'text/html'});
res.end(
 '<form action="/upload" enctype="multipart/form-data" method="post">'+
 '<input type="text" name="title">
'+
 '<input type="file" name="upload" multiple="multiple">
'+
 '<input type="submit" value="Upload">'+
 '</form>'
);
}).listen(80);

```

## ## API

### ### formidable.IncomingForm

`__new formidable.IncomingForm()`

Creates a new incoming form.

`__incomingForm.encoding = 'utf-8'`

The encoding to use for incoming form fields.

`__incomingForm.uploadDir = process.env.TMP || '/tmp' || process.cwd()`

The directory for placing file uploads in. You can move them later on using ``fs.rename()``. The default directory is picked at module load time depending on the first existing directory from those listed above.

`__incomingForm.keepExtensions = false`

If you want the files written to ``incomingForm.uploadDir`` to include the extensions of the original files, set this property to ``true``.

`__incomingForm.type`

Either `'multipart'` or `'urlencoded'` depending on the incoming request.

`__incomingForm.maxFieldsSize = 2 * 1024 * 1024`

Limits the amount of memory a field (not file) can allocate in bytes.

If this value is exceeded, an ``error`` event is emitted. The default

size is 2MB.

`__incomingForm.hash = false__`

If you want checksums calculated for incoming files, set this to either `'sha1'` or `'md5'`.

`__incomingForm.bytesReceived__`

The amount of bytes received for this form so far.

`__incomingForm.bytesExpected__`

The expected number of bytes in this form.

`__incomingForm.parse(request, [cb])__`

Parses an incoming node.js `request` containing form data. If `cb` is provided, all fields and files are collected and passed to the callback:

```
incomingForm.parse(req, function(err, fields, files) {
 // ...
});
```

`__incomingForm.onPart(part)__`

You may overwrite this method if you are interested in directly accessing the multipart stream. Doing so will disable any `'field'` / `'file'` events processing which would occur otherwise, making you fully responsible for handling the processing.

```
incomingForm.onPart = function(part) {
 part.addListener('data', function() {
 // ...
 });
}
```

If you want to use formidable to only handle certain parts for you, you can do so:

```
incomingForm.onPart = function(part) {
 if (!part.filename) {
 // let formidable handle all non-file parts
 incomingForm.handlePart(part);
 }
}
```

Check the code in this method for further inspiration.

`__Event: 'progress' (bytesReceived, bytesExpected)__`



Emitted after each incoming chunk of data that has been parsed. Can be used to roll your own progress bar.

\_\_Event: 'field' (name, value)\_\_

Emitted whenever a field / value pair has been received.

\_\_Event: 'fileBegin' (name, file)\_\_

Emitted whenever a new file is detected in the upload stream. Use this even if you want to stream the file to somewhere else while buffering the upload on the file system.

\_\_Event: 'file' (name, file)\_\_

Emitted whenever a field / file pair has been received. `file` is an instance of `File`.

\_\_Event: 'error' (err)\_\_

Emitted when there is an error processing the incoming form. A request that experiences an error is automatically paused, you will have to manually call `request.resume()` if you want the request to continue firing `data` events.

\_\_Event: 'aborted'\_\_

Emitted when the request was aborted by the user. Right now this can be due to a 'timeout' or 'close' event on the socket. In the future there will be a separate 'timeout' event (needs a change in the node core).

\_\_Event: 'end' ()\_\_

Emitted when the entire request has been received, and all contained files have finished flushing to disk. This is a great place for you to send your response.

### formidable.File

\_\_file.size = 0\_\_

The size of the uploaded file in bytes. If the file is still being uploaded (see `fileBegin` event), this property says how many bytes of the file have been written to disk yet.

\_\_file.path = null\_\_

The path this file is being written to. You can modify this in the `fileBegin` event in case you are unhappy with the way formidable generates a temporary path for your files.

\_\_file.name = null\_\_

The name this file had according to the uploading client.

\_\_file.type = null\_\_

The mime type of this file, according to the uploading client.

```
__file.lastModifiedDate = null__
```

A date object (or `null`) containing the time this file was last written to. Mostly here for compatibility with the [W3C File API Draft](http://dev.w3.org/2006/webapi/FileAPI/).

```
__file.hash = null__
```

If hash calculation was set, you can read the hex digest out of this var.

```
License
```

Formidable is licensed under the MIT license.

```
Ports
```

\* [multipart-parser](http://github.com/FooBarWidget/multipart-parser): a C++ parser based on formidable

```
Credits
```

\* [Ryan Dahl](http://twitter.com/ryah) for his work on [http-parser](http://github.com/ry/http-parser) which heavily inspired multipart\_parser.js

## 1.275 formidable 1.0.14

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# 1.276 forwarded 0.1.0

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# 1.277 fresh 0.2.4

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## 1.278 fresh 0.2.2

### 1.278.1 Available under license :

```
node-fresh
```

```
HTTP response freshness testing
```

```
fresh(req, res)
```

```
Check freshness of `req` and `res` headers.
```

```
When the cache is "fresh" __true__ is returned,
otherwise __false__ is returned to indicate that
the cache is now stale.
```

```
Example:
```

```
```js  
var req = { 'if-none-match': 'tobi' };  
var res = { 'etag': 'luna' };  
fresh(req, res);  
// => false
```

```
var req = { 'if-none-match': 'tobi' };  
var res = { 'etag': 'tobi' };  
fresh(req, res);  
// => true  
```
```

```
Installation
```

```
```  
$ npm install fresh  
```
```

```
License
```

```
(The MIT License)
```

```
Copyright (c) 2012 TJ Holowaychuk <tj@vision-media.ca>
```

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```
"author": "TJ Holowaychuk <tj@vision-media.ca> (http://tjholowaychuk.com)",
```

# 1.281 fs 0.0.2

## 1.281.1 Available under license :

```
{
 "name": "fs",
 "version": "0.0.2",
 "description": "",
 "main": "index.js",
 "scripts": {
 "test": "echo \"Error: no test specified\" && exit 1"
 },
 "author": "",
 "license": "MIT"
}
```

# 1.282 fs-ext 0.3.2

## 1.282.1 Available under license :

```
{
 "author": "Matt Sergeant <helpme@gmail.com> (http://baudehlo.wordpress.com/)",
 "name": "fs-ext",
 "description": "Extensions to core 'fs' module.",
 "keywords": ["fs", "filesystem", "flock", "seek"],
 "version": "0.3.2",
 "homepage": "https://github.com/baudehlo/node-fs-ext/",
 "repository": {
 "type": "git",
 "url": "git://github.com/baudehlo/node-fs-ext.git"
 },
 "main": "fs-ext.js",
 "engines": {
 "node": ">= v0.8.0"
 },
 "dependencies": { },
 "licenses": [{
 "type": "MIT"
 }],
 "bugs": {
```

```
"mail" : "helpme@gmail.com",
"web" : "https://github.com/baudehlo/node-fs-ext/issues"
},
"scripts": {
 "install": "node-gyp configure build",
 "test": "./run_tests" }
}
```

## 1.283 fs-ext 0.4.4

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## 1.284 fs-extra 0.16.5

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# 1.285 generate-function 2.0.0

## 1.285.1 Available under license :

```
generate-function
```

Module that helps you write generated functions in Node

```

```

```
npm install generate-function
```

```

```

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

```
Disclaimer
```

Writing code that generates code is hard.

You should only use this if you really, really, really need this for performance reasons (like schema validators / parsers etc).

```
Usage
```

```
``` js
```

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

```
var addNumber = function(val) {
```

```
  var fn = genfun()
```

```
    ('function add(n) {')
```

```
      ('return n + %d', val) // supports format strings to insert values
```

```
    ('}')
```

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

```
}
```

```
var add2 = addNumber(2)
```



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

```

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

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

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

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

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

var addAndMultiply2 = addAndMultiplyNumber(2)

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

```

## Related

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

## License

MIT

## 1.286 generate-object-property 1.2.0

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## 1.287 get-stdin 4.0.1

### 1.287.1 Available under license :

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

> Easier stdin

## Install

```
```sh
```

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

```
```
```

## Usage

```
```js
```

```
// example.js
```

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

```
stdin(function (data) {
```

```
  console.log(data);
```

```
//=> unicorns
});
...

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

API

stdin(callback)

Get `stdin` as a string.

stdin.buffer(callback)

Get `stdin` as a buffer.

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1.288 glob 3.2.3

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1.291 gmp_GPLv3 5.1.1 :5.e17

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Version 3, 29 June 2007

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1.292 gobject-introspection_LGPLv2 1.36.0

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

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

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

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

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

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

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

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

Library will still fall under Section 6.)

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

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

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
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For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for

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

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

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

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```

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```
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```

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```

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```
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```

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1.295 graceful-fs 2.0.3

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1.296 graceful-fs 3.0.6

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1.297 graceful-fs 3.0.8

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1.298 graceful-readlink 1.0.1

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1.299 growl 1.7.0

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1.300 gyp 0.1 :0.11.1617svn.el7

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1.301 handlebars 1.3.0

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1.302 har-validator 1.7.1

1.302.1 Available under license :

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

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

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

```
## Install
```

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

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

```
## Usage
```

```
```
```

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

```
Options:
```

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

```
...
```

```
Example
```

```
```shell
```

```
har-validator har.json
```

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

```
```
```

```
API
```

```
Validate(data [, callback])
```

Returns `true` or `false`.

- **data**: `Object` *(Required)*\*

a full [HAR](<http://www.softwareishard.com/blog/har-12-spec/>) object

- **callback**: `Function`

gets two arguments (err, valid)

```
```js
```

```
var HAR = require('./har.json');
```

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

```
validate(HAR, function (e, valid) {
```

```
  if (e) console.log(e.errors)
```

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

```
});
```

```
```
```

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

Returns `true` or `false`.

- **data**: `Object` *(Required)*\*

a [log](<http://www.softwareishard.com/blog/har-12-spec/#log>) object

- **callback**: `Function`

gets two arguments (err, valid)

```
```js
```

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

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

```

```
### Validate.cache(data [, callback])
```

Returns `true` or `false`.

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

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

```
```js
```

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

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

```

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

Returns `true` or `false`.

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

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

```
```js
```

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

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

```

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

Returns `true` or `false`.

- **data**: `Object` *(Required)*

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

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

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

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

Validate.cookie(data [, callback])

Returns `true`` or `false``.

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

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

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

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

Validate.creator(data [, callback])

Returns `true`` or `false``.

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

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

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

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

```
### Validate.entry(data [, callback])
```

Returns `true` or `false`.

- **data**: `Object` *(Required)*

an [entry](http://www.softwareishard.com/blog/har-12-spec/#entries) object

- **callback**: `Function`

gets two arguments (err, valid)

```
```js
```

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

```
validate.entry(data, function (e, valid) {
```

```
 if (e) console.log(e.errors)
```

```
});
```

```
```
```

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

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

```
### Validate.page(data [, callback])
```

Returns `true` or `false`.

- **data**: `Object` *(Required)*

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

- **callback**: `Function`

gets two arguments (err, valid)

```
```js
```

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

```
validate.page(data, function (e, valid) {
```

```
 if (e) console.log(e.errors)
```

```
});
```

```
```
```

```
### Validate.pageTimings(data [, callback])
```

Returns `true` or `false`.

- **data**: `Object` *(Required)*

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

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

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

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

Validate.postData(data [, callback])

Returns `true`` or `false``.

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

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

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

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

Validate.record(data [, callback])

Returns `true`` or `false``.

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

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

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

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

Validate.request(data [, callback])

Returns `true` or `false`.

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

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

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

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

Validate.response(data [, callback])

Returns `true` or `false`.

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

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

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

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

Validate.timings(data [, callback])

Returns `true` or `false`.

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

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

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

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

```

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```

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# 1.303 has-ansi 1.0.3

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

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

## Install

```
```sh
```

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

```
```
```

## Usage

```
```js
```

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

```
hasAnsi('\u001b[4mcake\u001b[0m');
```

```
//=> true
```

```
hasAnsi('cake');
```

```
//=> false
```

```
```
```

## CLI

```
```sh
```

```
$ npm install --global has-ansi
```

```
```
```

```
```
```

```
$ has-ansi --help
```

Usage

```
has-ansi <string>
```

```
echo <string> | has-ansi
```

Exits with code 0 if input has ANSI escape codes and 1 if not

```
```
```

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## 1.304 hashmap 1.0.0

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Code for the following pieces borrowed from code by:

Tom Vogt <tom@lemuria.org> (udp code)  
yuri volobuev <volobuev@t1.chem.umn.edu> (send\_arp.c)  
'Network UPS Tools' by Russell Kroll <rkroll@exploits.org>  
homepage: <http://www.exploits.org/nut/>  
(Andreas Piesk borrowed code for APCSmart support)  
David C. Teigland <teigland@sistina.com>  
wrote original meatware support for GFS stomith  
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```

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```

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```
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```

```
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The complete list of contributors can be found at: <https://github.com/hapijs/hapi/graphs/contributors>  
Portions of this project were initially based on the Yahoo! Inc. Postmile project, published at <https://github.com/yahoo/postmile>.

## 1.313 hoek 2.11.0

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Portions of this project were initially based on the Yahoo! Inc. Postmile project,  
published at <https://github.com/yahoo/postmile>.

## 1.314 hooks 0.3.2

### 1.314.1 Available under license :

hooks

=====

Add pre and post middleware hooks to your JavaScript methods.

#### ## Installation

```
npm install hooks
```

#### ## Motivation

Suppose you have a JavaScript object with a `save` method.

It would be nice to be able to declare code that runs before `save` and after `save`.  
For example, you might want to run validation code before every `save`,  
and you might want to dispatch a job to a background job queue after `save`.

One might have an urge to hard code this all into `save`, but that turns out to  
couple all these pieces of functionality (validation, save, and job creation) more  
tightly than is necessary. For example, what if someone does not want to do background  
job creation after the logical save?

It is nicer to tack on functionality using what we call `pre` and `post` hooks. These  
are functions that you define and that you direct to execute before or after particular  
methods.

#### ## Example

We can use `hooks` to add validation and background jobs in the following way:

```
```javascript
var hooks = require('hooks')
, Document = require('./path/to/some/document/constructor');

// Add hooks' methods: `hook`, `pre`, and `post`
for (var k in hooks) {
  Document[k] = hooks[k];
}

// Define a new method that is able to invoke pre and post middleware
Document.hook('save', Document.prototype.save);

// Define a middleware function to be invoked before 'save'
```



```

Document.pre('save', function validate (next) {
  // The `this` context inside of `pre` and `post` functions
  // is the Document instance
  if (this.isValid()) next(); // next() passes control to the next middleware
                                // or to the target method itself
  else next(new Error("Invalid")); // next(error) invokes an error callback
});

// Define a middleware function to be invoked after 'save'
Document.post('save', function createJob (next) {
  this.sendToBackgroundQueue();
  next();
});
...

```

If you already have defined `Document.prototype` methods for which you want pres and posts, then you do not need to explicitly invoke `Document.hook(...)`. Invoking `Document.pre(methodName, fn)` or `Document.post(methodName, fn)` will automatically and lazily change `Document.prototype[methodName]` so that it plays well with `hooks`. An equivalent way to implement the previous example is:

```

```javascript
var hooks = require('hooks')
, Document = require('./path/to/some/document/constructor');

// Add hooks' methods: `hook`, `pre`, and `post`
for (var k in hooks) {
 Document[k] = hooks[k];
}

Document.prototype.save = function () {
 // ...
};

// Define a middleware function to be invoked before 'save'
Document.pre('save', function validate (next) {
 // The `this` context inside of `pre` and `post` functions
 // is the Document instance
 if (this.isValid()) next(); // next() passes control to the next middleware
 // or to the target method itself
 else next(new Error("Invalid")); // next(error) invokes an error callback
});

// Define a middleware function to be invoked after 'save'
Document.post('save', function createJob (next) {
 this.sendToBackgroundQueue();
 next();
});
...

```

## ## Pres and Posts as Middleware

We structure pres and posts as middleware to give you maximum flexibility:

1. You can define **multiple** pres (or posts) for a single method.
2. These pres (or posts) are then executed as a chain of methods.
3. Any functions in this middleware chain can choose to halt the chain's execution by `next`ing an Error from that middleware function. If this occurs, then none of the other middleware in the chain will execute, and the main method (e.g., `save`) will not execute. This is nice, for example, when we don't want a document to save if it is invalid.

## ## Defining multiple pres (or posts)

`pre` and `post` are chainable, so you can define multiple via:

```
```javascript
Document.pre('save', function (next) {
  console.log("hello");
  next();
}).pre('save', function (next) {
  console.log("world");
  next();
});
```

```
Document.post('save', function (next) {
  console.log("hello");
  next();
}).post('save', function (next) {
  console.log("world");
  next();
});
```
```

As soon as one pre finishes executing, the next one will be invoked, and so on.

## ## Error Handling

You can define a default error handler by passing a 2nd function as the 3rd argument to `hook`:

```
```javascript
Document.hook('set', function (path, val) {
  this[path] = val;
}, function (err) {
  // Handler the error here
  console.error(err);
});
```
```

Then, we can pass errors to this handler from a pre or post middleware function:

```
```javascript
Document.pre('set', function (next, path, val) {
  next(new Error());
});
```

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

If you do not set up a default handler, then `hooks` makes the default handler that just throws the `Error`.

The default error handler can be over-rided on a per method invocation basis.

If the main method that you are surrounding with pre and post middleware expects its last argument to be a function with callback signature `function (error, ...)`, then that callback becomes the error handler, over-riding the default error handler you may have set up.

```
```javascript  
Document.hook('save', function (callback) {  
  // Save logic goes here  
  ...  
});  
  
var doc = new Document();  
doc.save( function (err, saved) {  
  // We can pass err via `next` in any of our pre or post middleware functions  
  if (err) console.error(err);  
  
  // Rest of callback logic follows ...  
});  
```
```

### ## Mutating Arguments via Middleware

`pre` and `post` middleware can also accept the intended arguments for the method they augment. This is useful if you want to mutate the arguments before passing them along to the next middleware and eventually pass a mutated arguments list to the main method itself.`

As a simple example, let's define a method `set` that just sets a key, value pair.`

If we want to namespace the key, we can do so by adding a `pre` middleware hook that runs before `set`, alters the arguments by namespacing the `key` argument, and passes them onto `set`:`

```
```javascript  
Document.hook('set', function (key, val) {  
  this[key] = val;  
});  
Document.pre('set', function (next, key, val) {  
  next('namespace-' + key, val);  
});  
var doc = new Document();  
doc.set('hello', 'world');  
console.log(doc.hello); // undefined  
console.log(doc['namespace-hello']); // 'world'  
```
```

As you can see above, we pass arguments via `next`.

If you are not mutating the arguments, then you can pass zero arguments to `next`, and the next middleware function will still have access to the arguments.

```
```javascript
Document.hook('set', function (key, val) {
  this[key] = val;
});
Document.pre('set', function (next, key, val) {
  // I have access to key and val here
  next(); // We don't need to pass anything to next
});
Document.pre('set', function (next, key, val) {
  // And I still have access to the original key and val here
  next();
});
```
```

Finally, you can add arguments that downstream middleware can also see:

```
```javascript
// Note that in the definition of `set`, there is no 3rd argument, options
Document.hook('set', function (key, val) {
  // But...
  var options = arguments[2]; // ...I have access to an options argument
                               // because of pre function pre2 (defined below)
  console.log(options); // '{debug: true}'
  this[key] = val;
});
Document.pre('set', function pre1 (next, key, val) {
  // I only have access to key and val arguments
  console.log(arguments.length); // 3
  next(key, val, {debug: true});
});
Document.pre('set', function pre2 (next, key, val, options) {
  console.log(arguments.length); // 4
  console.log(options); // '{ debug: true}'
  next();
});
Document.pre('set', function pre3 (next, key, val, options) {
  // I still have access to key, val, AND the options argument introduced via the preceding middleware
  console.log(arguments.length); // 4
  console.log(options); // '{ debug: true}'
  next();
});
```
```

```
var doc = new Document()
doc.set('hey', 'there');
...

```

## ## Post middleware

Post middleware intercepts the callback originally sent to the asynchronous function you have hooked to.

This means that the following chain of execution will occur in a typical `save` operation:

(1) doc.save -> (2) pre --(next)--> (3) save calls back -> (4) post --(next)--> (5) targetFn

Illustrated below:

```
...
Document.pre('save', function (next) {
 this.key = "value";
 next();
});
// Post handler occurs before `set` calls back. This is useful if we need to grab something
// async before `set` finishes.
Document.post('set', function (next) {
 var me = this;
 getSomethingAsync(function(value){ // let's assume it returns "Hello Async"
 me.key2 = value;
 next();
 });
});

var doc = new Document();
doc.save(function(err){
 console.log(this.key); // "value" - this value was saved
 console.log(this.key2); // "Hello Async" - this value was *not* saved
})
...

```

Post middleware must call `next()` or execution will stop.

## ## Parallel `pre` middleware

All middleware up to this point has been "serial" middleware -- i.e., middleware whose logic is executed as a serial chain.

Some scenarios call for parallel middleware -- i.e., middleware that can wait for several asynchronous services at once to respond.

For instance, you may only want to save a Document only after you have checked that the Document is valid according to two different remote services.

We accomplish asynchronous middleware by adding a second kind of flow control callback (the only flow control callback so far has been `next`), called `done`.

- `next` passes control to the next middleware in the chain
- `done` keeps track of how many parallel middleware have invoked `done` and passes control to the target method when ALL parallel middleware have invoked `done`. If you pass an `Error` to `done`, then the error is handled, and the main method that is wrapped by pres and posts will not get invoked.

We declare pre middleware that is parallel by passing a 3rd boolean argument to our `pre` definition method.

We illustrate via the parallel validation example mentioned above:

```
```javascript
Document.hook('save', function targetFn (callback) {
  // Save logic goes here
  // ...
  // This only gets run once the two `done`s are both invoked via preOne and preTwo.
});

      // true marks this as parallel middleware
Document.pre('save', true, function preOne (next, doneOne, callback) {
  remoteServiceOne.validate(this.serialize(), function (err, isValid) {
    // The code in here will probably be run after the `next` below this block
    // and could possibly be run after the console.log("Hola") in `preTwo
    if (err) return doneOne(err);
    if (isValid) doneOne();
  });
  next(); // Pass control to the next middleware
});

// We will suppose that we need 2 different remote services to validate our document
Document.pre('save', true, function preTwo (next, doneTwo, callback) {
  remoteServiceTwo.validate(this.serialize(), function (err, isValid) {
    if (err) return doneTwo(err);
    if (isValid) doneTwo();
  });
  next();
});

// While preOne and preTwo are parallel, preThree is a serial pre middleware
Document.pre('save', function preThree (next, callback) {
  next();
});
```
```

```

var doc = new Document();
doc.save(function (err, doc) {
 // Do stuff with the saved doc here...
});
...

```

In the above example, flow control may happen in the following way:

```

(1) doc.save -> (2) preOne --(next)--> (3) preTwo --(next)--> (4) preThree --(next)--> (wait for dones to invoke) ->
(5) doneTwo -> (6) doneOne -> (7) targetFn

```

So what's happening is that:

1. You call `doc.save(...)`
2. First, your preOne middleware gets executed. It makes a remote call to the validation service and `next()`s to the preTwo middleware.
3. Now, your preTwo middleware gets executed. It makes a remote call to another validation service and `next()`s to the preThree middleware.
4. Your preThree middleware gets executed. It immediately `next()`s. But nothing else gets executing until both `doneOne` and `doneTwo` are invoked inside the callbacks handling the response from the two validation services.
5. We will suppose that validation remoteServiceTwo returns a response to us first. In this case, we call `doneTwo` inside the callback to remoteServiceTwo.
6. Some fractions of a second later, remoteServiceOne returns a response to us. In this case, we call `doneOne` inside the callback to remoteServiceOne.
7. `hooks` implementation keeps track of how many parallel middleware has been defined per target function. It detects that both asynchronous pre middlewares (`preOne` and `preTwo`) have finally called their `done` functions (`doneOne` and `doneTwo`), so the implementation finally invokes our `targetFn` (i.e., our core `save` business logic).

### ## Removing Pres

You can remove a particular pre associated with a hook:

```

Document.pre('set', someFn);
Document.removePre('set', someFn);

```

And you can also remove all pres associated with a hook:

```

Document.removePre('set'); // Removes all declared `pre`s on the hook 'set'

```

### ## Tests

To run the tests:

```

make test

```

### ### Contributors

- [Brian Noguchi](https://github.com/bnoguchi)

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### Author  
Brian Noguchi

## 1.315 hooks 0.2.1

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hooks

=====

Add pre and post middleware hooks to your JavaScript methods.

## Installation  
npm install hooks

## Motivation  
Suppose you have a JavaScript object with a `save` method.

It would be nice to be able to declare code that runs before `save` and after `save`. For example, you might want to run validation code before every `save`, and you might want to dispatch a job to a background job queue after `save`.

One might have an urge to hard code this all into `save`, but that turns out to couple all these pieces of functionality (validation, save, and job creation) more tightly than is necessary. For example, what if someone does not want to do background job creation after the logical save?

It is nicer to tack on functionality using what we call `pre` and `post` hooks. These are functions that you define and that you direct to execute before or after particular methods.

## Example  
We can use `hooks` to add validation and background jobs in the following way:

```
var hooks = require('hooks')
 , Document = require('./path/to/some/document/constructor');

// Add hooks' methods: `hook`, `pre`, and `post`
for (var k in hooks) {
 Document[k] = hooks[k];
}

// Define a new method that is able to invoke pre and post middleware
Document.hook('save', Document.prototype.save);
```



```

// Define a middleware function to be invoked before 'save'
Document.pre('save', function validate (next) {
 // The `this` context inside of `pre` and `post` functions
 // is the Document instance
 if (this.isValid()) next(); // next() passes control to the next middleware
 // or to the target method itself
 else next(new Error("Invalid")); // next(error) invokes an error callback
});

// Define a middleware function to be invoked after 'save'
Document.post('save', function createJob () {
 this.sendToBackgroundQueue();
});

```

If you already have defined `Document.prototype` methods for which you want pres and posts, then you do not need to explicitly invoke `Document.hook(...)`. Invoking `Document.pre(methodName, fn)` or `Document.post(methodName, fn)` will automatically and lazily change `Document.prototype[methodName]` so that it plays well with `hooks`. An equivalent way to implement the previous example is:

```

```javascript
var hooks = require('hooks')
, Document = require('./path/to/some/document/constructor');

// Add hooks' methods: `hook`, `pre`, and `post`
for (var k in hooks) {
  Document[k] = hooks[k];
}

Document.prototype.save = function () {
  // ...
};

// Define a middleware function to be invoked before 'save'
Document.pre('save', function validate (next) {
  // The `this` context inside of `pre` and `post` functions
  // is the Document instance
  if (this.isValid()) next(); // next() passes control to the next middleware
    // or to the target method itself
  else next(new Error("Invalid")); // next(error) invokes an error callback
});

// Define a middleware function to be invoked after 'save'
Document.post('save', function createJob () {
  this.sendToBackgroundQueue();
});
```

Pres and Posts as Middleware

```

We structure pres and posts as middleware to give you maximum flexibility:

1. You can define **multiple** pres (or posts) for a single method.
2. These pres (or posts) are then executed as a chain of methods.
3. Any functions in this middleware chain can choose to halt the chain's execution by `next`'ing an `Error` from that middleware function. If this occurs, then none of the other middleware in the chain will execute, and the main method (e.g., `save`) will not execute. This is nice, for example, when we don't want a document to save if it is invalid.

## Defining multiple pres (or posts)

`pre` is chainable, so you can define multiple pres via:

```
Document.pre('save', function (next, halt) {
 console.log("hello");
}).pre('save', function (next, halt) {
 console.log("world");
});
```

As soon as one pre finishes executing, the next one will be invoked, and so on.

## Error Handling

You can define a default error handler by passing a 2nd function as the 3rd argument to `hook`:

```
Document.hook('set', function (path, val) {
 this[path] = val;
}, function (err) {
 // Handler the error here
 console.error(err);
});
```

Then, we can pass errors to this handler from a pre or post middleware function:

```
Document.pre('set', function (next, path, val) {
 next(new Error());
});
```

If you do not set up a default handler, then `hooks` makes the default handler that just throws the `Error`.

The default error handler can be over-rided on a per method invocation basis.

If the main method that you are surrounding with pre and post middleware expects its last argument to be a function with callback signature `function (error, ...)`, then that callback becomes the error handler, over-riding the default error handler you may have set up.

```
```javascript
Document.hook('save', function (callback) {
  // Save logic goes here
  ...
});
```

```
var doc = new Document();
```

```

doc.save( function (err, saved) {
  // We can pass err via `next` in any of our pre or post middleware functions
  if (err) console.error(err);

  // Rest of callback logic follows ...
});
...

```

Mutating Arguments via Middleware

`pre` and `post` middleware can also accept the intended arguments for the method they augment. This is useful if you want to mutate the arguments before passing them along to the next middleware and eventually pass a mutated arguments list to the main method itself.

As a simple example, let's define a method `set` that just sets a key, value pair.

If we want to namespace the key, we can do so by adding a `pre` middleware hook that runs before `set`, alters the arguments by namespaces the `key` argument, and passes them onto `set`:

```

Document.hook('set', function (key, val) {
  this[key] = val;
});
Document.pre('set', function (next, key, val) {
  next('namespace-' + key, val);
});
var doc = new Document();
doc.set('hello', 'world');
console.log(doc.hello); // undefined
console.log(doc['namespace-hello']); // 'world'

```

As you can see above, we pass arguments via `next`.

If you are not mutating the arguments, then you can pass zero arguments to `next`, and the next middleware function will still have access to the arguments.

```

Document.hook('set', function (key, val) {
  this[key] = val;
});
Document.pre('set', function (next, key, val) {
  // I have access to key and val here
  next(); // We don't need to pass anything to next
});
Document.pre('set', function (next, key, val) {
  // And I still have access to the original key and val here
  next();
});

```

Finally, you can add arguments that downstream middleware can also see:

```

// Note that in the definition of `set`, there is no 3rd argument, options
Document.hook('set', function (key, val) {
  // But...
  var options = arguments[2]; // ...I have access to an options argument
    // because of pre function pre2 (defined below)
  console.log(options); // '{ debug: true}'
  this[key] = val;
});
Document.pre('set', function pre1 (next, key, val) {
  // I only have access to key and val arguments
  console.log(arguments.length); // 3
  next(key, val, { debug: true });
});
Document.pre('set', function pre2 (next, key, val, options) {
  console.log(arguments.length); // 4
  console.log(options); // '{ debug: true}'
  next();
});
Document.pre('set', function pre3 (next, key, val, options) {
  // I still have access to key, val, AND the options argument introduced via the preceding middleware
  console.log(arguments.length); // 4
  console.log(options); // '{ debug: true}'
  next();
});

var doc = new Document()
doc.set('hey', 'there');

```

Parallel `pre` middleware

All middleware up to this point has been "serial" middleware -- i.e., middleware whose logic is executed as a serial chain.

Some scenarios call for parallel middleware -- i.e., middleware that can wait for several asynchronous services at once to respond.

For instance, you may only want to save a Document only after you have checked that the Document is valid according to two different remote services.

We accomplish asynchronous middleware by adding a second kind of flow control callback (the only flow control callback so far has been `next`), called `done`.

- `next` passes control to the next middleware in the chain
- `done` keeps track of how many parallel middleware have invoked `done` and passes control to the target method when ALL parallel middleware have invoked `done`. If you pass an `Error` to `done`, then the error is handled, and the main method that is wrapped by pres and posts will not get invoked.

We declare pre middleware that is parallel by passing a 3rd boolean argument to our `pre` definition method.

We illustrate via the parallel validation example mentioned above:

```
Document.hook('save', function targetFn (callback) {
  // Save logic goes here
  // ...
  // This only gets run once the two `done`s are both invoked via preOne and preTwo.
});

// true marks this as parallel middleware
Document.pre('save', true, function preOne (next, doneOne, callback) {
  remoteServiceOne.validate(this.serialize(), function (err, isValid) {
    // The code in here will probably be run after the `next` below this block
    // and could possibly be run after the console.log("Hola") in `preTwo
    if (err) return doneOne(err);
    if (isValid) doneOne();
  });
  next(); // Pass control to the next middleware
});

// We will suppose that we need 2 different remote services to validate our document
Document.pre('save', true, function preTwo (next, doneTwo, callback) {
  remoteServiceTwo.validate(this.serialize(), function (err, isValid) {
    if (err) return doneTwo(err);
    if (isValid) doneTwo();
  });
  next();
});

// While preOne and preTwo are parallel, preThree is a serial pre middleware
Document.pre('save', function preThree (next, callback) {
  next();
});

var doc = new Document();
doc.save( function (err, doc) {
  // Do stuff with the saved doc here...
});
```

In the above example, flow control may happen in the following way:

(1) doc.save -> (2) preOne --(next)--> (3) preTwo --(next)--> (4) preThree --(next)--> (wait for dones to invoke) ->
(5) doneTwo -> (6) doneOne -> (7) targetFn

So what's happening is that:

1. You call `doc.save(...)`
2. First, your `preOne` middleware gets executed. It makes a remote call to the validation service and `next()`'s to the `preTwo` middleware.
3. Now, your `preTwo` middleware gets executed. It makes a remote call to another validation service and `next()`'s to the `preThree` middleware.
4. Your `preThree` middleware gets executed. It immediately `next()`'s. But nothing else gets executing until both `doneOne` and `doneTwo` are invoked inside the callbacks handling the response from the two validation services.
5. We will suppose that validation `remoteServiceTwo` returns a response to us first. In this case, we call `doneTwo` inside the callback to `remoteServiceTwo`.
6. Some fractions of a second later, `remoteServiceOne` returns a response to us. In this case, we call `doneOne` inside the callback to `remoteServiceOne`.
7. `hooks` implementation keeps track of how many parallel middleware has been defined per target function. It detects that both asynchronous pre middlewares (`preOne` and `preTwo`) have finally called their `done` functions (`doneOne` and `doneTwo`), so the implementation finally invokes our `targetFn` (i.e., our core `save` business logic).

Removing Pres

You can remove a particular pre associated with a hook:

```
Document.pre('set', someFn);
Document.removePre('set', someFn);
```

And you can also remove all pres associated with a hook:

```
Document.removePre('set'); // Removes all declared `pre`s on the hook 'set'
```

Tests

To run the tests:

```
make test
```

Contributors

- [Brian Noguchi](https://github.com/bnoguchi)

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1.316 htmlparser 1.7.6

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1.317 http 0.0.0

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{
  "name": "http",
  "version": "0.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "",
  "license": "BSD-2-Clause"
```

}

1.318 http-errors 1.3.1

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1.319 http-parser 2.0

:4.20121128gitcd01361.e17

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1.320 http-proxy 1.1.2

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1.321 http-proxy 1.11.1

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1.322 http-proxy 1.6.1

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1.323 http-signature 0.10.1

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1.325 i 0.3.2

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1.326 iconv-lite 0.2.11

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1.327 iconv-lite 0.4.7

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1.329 iconv-lite 0.4.8

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1.330 iconv-lite 0.4.6

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1.331 ieee754 1.1.4

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1.332 inherits 2.0.1

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1.333 inotify 1.2.1

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1.334 iomcurl 7.41.0 :IOM

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1.335 iomlibuv 1.0.0 :rc2.IOM

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1.336 ipaddr.js 1.0.1

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1.339 is-array 1.0.1

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```
<a href="https://jepso-ci.com/yields/isArray">  
    
</a>
```

isArray

Check if the given `value` is an `Array`.

Installation

```
$ component install yields/isArray
```

API

isArray(val)

```
```javascript  
isArray(arguments);
// > false
isArray();
// > false
isArray([]);
// > true
```
```

License

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1.340 is-my-json-valid 2.12.0

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1.346 istanbul 0.3.0

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1.347 ivykis 0.36.2 :2.e17

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1.350 jade 1.9.1

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1.351 jemalloc 3.6.0 :1.e17

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1.352 jison 0.3.12

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Jison

=====

* [issues](<http://github.com/zaach/jison/issues>)

* [discuss](<mailto:jison@librelist.com>)

[![build status](<https://secure.travis-ci.org/zaach/jison.png>)](<http://travis-ci.org/zaach/jison>)

An API for creating parsers in JavaScript

Jison generates bottom-up parsers in JavaScript. Its API is similar to Bison's, hence the name. It supports many of Bison's major features, plus some of its own. If you are new to parser generators such as Bison, and Context-free Grammars in general, a [good introduction][1] is found in the Bison manual. If you already know Bison, Jison should be easy to pickup.

Briefly, Jison takes a JSON encoded grammar or Bison style grammar and outputs a JavaScript file capable of parsing the language described by that grammar. You can then use the generated script to parse inputs and accept, reject, or perform actions based on the input.

Installation

Jison can be installed for [Node](<http://nodejs.org>) using [`npm`](<http://github.com/isaacs/npm/>)

Using npm:

```
npm install jison -g
```

Usage from the command line

Clone the github repository for examples:

```
git clone git://github.com/zaach/jison.git
cd jison/examples
```

Now you're ready to generate some parsers:

```
jison calculator.jison
```

This will generate `calculator.js` in your current working directory. This file can be used to parse an input file, like so:

```
echo "2^32 / 1024" > testcalc
node calculator.js testcalc
```

This will print out `4194304`.

Usage from a CommonJS module

You can generate parsers programatically from JavaScript as well. Assuming Jison is in your commonjs environment's load path:

```
// mygenerator.js
```

```

var Parser = require("jison").Parser;

// a grammar in JSON
var grammar = {
  "lex": {
    "rules": [
      ["\\s+", "/* skip whitespace */"],
      ["[a-f0-9]+", "return 'HEX';"]
    ]
  },

  "bnf": {
    "hex_strings" :[ "hex_strings HEX",
                     "HEX" ]
  }
};

// `grammar` can also be a string that uses jison's grammar format
var parser = new Parser(grammar);

// generate source, ready to be written to disk
var parserSource = parser.generate();

// you can also use the parser directly from memory

// returns true
parser.parse("adfe34bc e82a");

// throws lexical error
parser.parse("adfe34bc zxc");

```

More Documentation

For more information on creating grammars and using the generated parsers, read the [documentation](<http://jison.org/docs>).

How to contribute

Fork, make your changes, run tests and/or add tests then send a pull request.

Run tests with:

```
make test
```

Projects using Jison

View them on the [wiki](https://github.com/zaach/jison/wiki/ProjectsUsingJison), or add your own.

Contributors

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Special thanks to Jarred Ligatti, Manuel E. Berm dez

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1.353 jquery 1.8.3

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1.354 jquery-browserify 1.8.1

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1.355 js-yaml 3.0.1

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1.356 js-yaml 3.2.7

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1.358 jsdom 0.2.19

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1.359 json-stream 1.0.0

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1.360 json-stringify-safe 5.0.0

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1.361 json-stringify-safe 5.0.1

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1.362 jsonfile 2.0.0

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1.363 jsonparse 0.0.5

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1.364 jsonpointer 1.1.0

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JSON Pointer for nodejs

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

Usage

```
var jsonpointer = require("jsonpointer");
```

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

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

```
## Testing
```

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

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

```
## Author
```

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

```
## License
```

```
MIT License.
```

1.365 JSONSelect 0.4.0

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1.366 JSONStream 0.10.0

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Norrisboyd 06:16, 14 April 2008 (PDT)

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launcher script for jsdoc

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for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

*

* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

* <http://www.hypermall.com/>

* 10/1/97 - commented out CFG_PHYIE bit - we don't care when the PHY

* interrupts us (except possibly for removal/insertion of the cable?)

* 10/4/97 - began heavy inline documentation of the code. Corrected typos

* and spelling mistakes.

* 10/5/97 - added code to handle PHY interrupts, disable PHY on

* loss of link, and correctly re-enable PHY when link is

* re-established. (put back CFG_PHYIE)

*

* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

*

* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

*

* Linux driver for the IDT77201 NICStAR PCI ATM controller.

* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

* see init_nicstar() for PHY initialization to change this. This driver

* expects the Linux ATM stack to support scatter-gather lists

* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

*

* Implementing minimal-copy of received data:

* IDT always receives data into a small buffer, then large buffers

* as needed. This means that data must always be copied to create

- * the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
- * Fix is simple: make large buffers large enough to hold entire
- * SDU, and leave <small_buffer_data> bytes empty at the start. Then
- * copy small buffer contents to head of large buffer.
- * Trick is to avoid fragmenting Linux, due to need for a lot of large
- * buffers. This is done by 2 things:
- * 1) skb->destructor / skb->atm.recycle_buffer
- * combined, allow nicstar_free_rx_skb to be called to
- * recycle large data buffers
- * 2) skb_clone of received buffers
- * See nicstar_free_rx_skb and linearize_buffer for implementation
- * details.
- *
- *
- *
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- *
- * M. Welsh, 6 July 1996
- *
- *
- * /

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1.376 keyutils_GPLv2 1.5.8 :3.e17

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1.377 Icov-parse 0.0.6

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1.378 libcap-ng_utils 0.7.3 :5.el7

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

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

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object

file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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

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

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Version 3, 29 June 2007

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1. Source Code.

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```
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```

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```
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```

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1.386 libuuid 2.28 :r3

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work

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```
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- * less -F and tail -f cause a disk access every five seconds. This
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- * Hence, the file is not accessed, and the access time does not need to be
- * flushed back to disk. This is sort of a "stealth" tail.
- */

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Version 3, 29 June 2007

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```

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```
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ELF(4(O-MhbP@P`04P

p0P0

P

P

```

P
P100
 0 B%OPR
HEte?@h$0
ZZ
$100
(J1@pP00.0S)
0Y@000D0H0L
 0Pt000
 0P
pP
WT @bsdfreebsdnetbsdopenbsdWARNING: BSD label detected on unknown (0x%x) primary partition
WARNING: ignore %d more BSD partitions
WARNING: BSD partition (%d) overflow detected, ignore
WEVGCC: (Linaro GCC 4.5-2012.02) 4.5.4 20120201 (prerelease)A.aeabi$7-A
A ,.symtab.strtab.shstrtab.rel.text.data.bss.rel.data.rel.ro.local.rodata.str1.1.comment.note.GNU-
stack.ARM.attributes4
%+4T0 P(G2,V0;_'op'/V
 ( h
x$).3\8
=\s3IZbsd.c$aprobe_bsd_pt$d.LC1.LC3.LC4.LC0.LC2.LC5.LC6blkid_partitions_need_typeonlyblkid_probe_get_s
ectorblkid_probe_get_partlistblkid_partlist_get_parentblkid_partition_get_typeprintfblkid_partlist_new_parttableblk
id_is_nested_dimensionblkid_partlist_add_partitionblkid_partition_set_type_GLOBAL_OFFSET_TABLE_blkid_d
ebug_maskbsd_pt_idinfo8TdpX$@Px|

$4
# bsd.lo - a libtool object file
# Generated by libtool (GNU libtool) 2.4
#
# Please DO NOT delete this file!
# It is necessary for linking the library.

# Name of the PIC object.
pic_object='.libs/bsd.o'

# Name of the non-PIC object
non_pic_object='bsd.o'
bsd.lo: bsd.c ../.././config.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/stdio.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/features.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/sys/cdefs.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/wordsize.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/gnu/stubs.h \

```



```
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/err.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/fcntl.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/fcntl.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/uiio.h \
../../../../include/bitops.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/sys/param.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/linux/param.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/asm/param.h \
../../../../include/blkdev.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/sys/ioctl.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/ioctls.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/asm/ioctls.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/asm-generic/ioctls.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/linux/ioctl.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/asm/ioctl.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/asm-generic/ioctl.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/ioctl-types.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/sys/ttydefaults.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/unistd.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/posix_opt.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/environments.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/confname.h \
/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-
openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/getopt.h \
../../../../libblkid/src/blkid.h ../../include/list.h blkid_parttypes.h

../../../../config.h:
```

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/stdio.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/features.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/sys/cdefs.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/wordsize.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/gnu/stubs.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/include/stddef.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/types.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/typesizes.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/libio.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/_G_config.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/wchar.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/include/stdarg.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/stdio_lim.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/sys_errlist.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/string.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/xlocale.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/stdlib.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/waitflags.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/waitstatus.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/ndian.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/ndian.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/byteswap.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/sys/types.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/time.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/sys/select.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/select.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/sigset.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/time.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/sys/sysmacros.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/pthreadtypes.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/alloca.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/include/stdint.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/stdint.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/wchar.h:

partitions.h:

../../../../libblkid/src/blkidP.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/dirent.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/dirent.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/posix1_lim.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/local_lim.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/linux/limits.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/sys/stat.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/stat.h:

../../../../include/c.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/include-fixed/limits.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/include-fixed/syslimits.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/limits.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/posix2_lim.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/xopen_lim.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/errno.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/errno.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/linux/errno.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/asm/errno.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/asm-generic/errno.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/asm-generic/errno-base.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/err.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/fcntl.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/fcntl.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/uio.h:

../../../../include/bitops.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/sys/param.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/linux/param.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/asm/param.h:

../../../../include/blkdev.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/sys/ioctl.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/ioctls.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/asm/ioctls.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/asm-generic/ioctls.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/linux/ioctl.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/asm/ioctl.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/asm-generic/ioctl.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/ioctl-types.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/sys/ttydefaults.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/unistd.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/posix_opt.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/environments.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/bits/confname.h:

/home/shiva/mar15/sdk-openwrt/staging_dir/toolchain-arm_v7-a_gcc-4.5-linaro_glibc-2.14.1_eabi/lib/gcc/arm-openwrt-linux-gnueabi/4.5.4/../../../../arm-openwrt-linux-gnueabi/sys-include/getopt.h:

../../../../libblkid/src/blkid.h:

../../../../include/list.h:

blkid_parttypes.h:

/*

* Fallback for old or obscure libcs without dynamically allocated cpusets

*

* The following macros are based on code from glibc.

*

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Initialize empty image

f1c9645dbc14efddc7d8a322685f26eb bsd.img

Create new DOS partition table

57e721e38d1266c2df055067c18f2cf9 bsd.img

---layout-----

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos

Disk identifier: 0x00000001

| Device | Boot | Start | End | Blocks | Id | System |
|--------|------|-------|-----|--------|----|--------|
|--------|------|-------|-----|--------|----|--------|

Create 1st primary partition

ada64ace122978d00d1d1c0e5ee45d26 bsd.img

---layout-----

__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors

Units = sectors of 1 * 512 = 512 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk label type: dos

Disk identifier: 0x00000001

| Device | Boot | Start | End | Blocks | Id | System |
|-------------|------|-------|------|--------|----|--------|
| __ts_dev__1 | | 2048 | 4095 | 1024 | 83 | Linux |

Create 2st primary partition

1bebf87248e05d6e4e62b749da65d023 bsd.img

Set 2nd partition type

2d8e8dff51a88a045db233418dd73fbe bsd.img

```
---layout-----
__ts_dev__: 10 MB, 10485760 bytes, 20480 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0x00000001
```

| Device | Boot | Start | End | Blocks | Id | System |
|-------------|------|-------|-------|--------|----|---------|
| __ts_dev__1 | | 2048 | 4095 | 1024 | 83 | Linux |
| __ts_dev__2 | | 4096 | 20479 | 8192 | a5 | FreeBSD |

```
-----
Create default BSD
2e1cee529cb59c9341afef0443f196a1 bsd.img
```

```
---layout-----
```

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

| # | start | end | size | fstype | [fsize | bsize | cpg] |
|----|-------|-------|-------|--------|--------|-------|------|
| c: | 4096 | 20479 | 16384 | unused | 0 | 0 | |
| d: | 0 | 16064 | 16065 | unused | 0 | 0 | |

BSD disklabel command (m for help):

Command (m for help):

```
-----
b5c121c2091b2ff26b880551feac7112 bsd.img
```

```
---layout-----
```

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

4 partitions:

| # | start | end | size | fstype | [fsize | bsize | cpg] |
|----|-------|------|------|--------|--------|-------|------|
| a: | 4096 | 6144 | 2049 | 4.2BSD | 0 | 0 | 0 |


```
c: 4096 20479 16384 unused 0 0
d: 0 16064 16065 unused 0 0
```

BSD disklabel command (m for help):

Command (m for help):

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Command (m for help):

BSD disklabel command (m for help):

```
0 unused      5 4.1BSD      9 4.4LFS      d boot
1 swap        6 Eighth Edition a unknown    e ADOS
2 Version 6    7 4.2BSD      b HPFS       f HFS
3 Version 7    8 MS-DOS     c ISO-9660   10 AdvFS
4 System V
```

BSD disklabel command (m for help):

size: 8388608, sector size: 512, PT: dos, offset: 446, id=0x8f8378c0

```
#1: 32 7648 0x83
#2: 7680 8704 0xa5
#5: 7936 4864 0x7 (freebsd)
#6: 12544 3584 0x7 (freebsd)
```

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

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```
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 * libxslt_pipes.c: a program for performing a series of XSLT
 * transformations
 *
 * Written by Panos Louridas, based on libxslt_tutorial.c by John Fleck.
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* transformations
*
* Written by Panos Louridas, based on libxslt_tutorial.c by John Fleck.
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* Foundation, Inc., 59 Temple Place - Suite 330, Cambridge, MA 02139, USA.
*
*/
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1.391 location 0.0.1

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```
"author": "AJ O'Neal <coolaj86@gmail.com> (http://coolaj86.info)",
"url": "git://github.com/coolaj86/node-location.git"
```

1.392 Iodash 3.5.0

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1.397 Iodash 1.3.1

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```
{
  "name": "Iodash",
  "version": "1.3.1",
  "description": "A utility library delivering consistency, customization, performance, and extras.",
  "homepage": "http://Iodash.com/",
  "license": "MIT",
  "main": "./dist/Iodash.js",
  "keywords": [
    "browser",
    "client",
    "functional",
    "performance",
    "server",
    "speed",
    "util"
  ],
  "author": "John-David Dalton <john.david.dalton@gmail.com> (http://allyoucanleet.com/)",
```

```

"contributors": [
  "John-David Dalton <john.david.dalton@gmail.com> (http://allyoucanleet.com/)",
  "Blaine Blublitz <blaine@iceddev.com> (http://iceddev.com/)",
  "Kit Cambridge <github@kitcambridge.be> (http://kitcambridge.be/)",
  "Mathias Bynens <mathias@qiwi.be> (http://mathiasbynens.be/)"
],
"bugs": {
  "url": "https://github.com/lodash/lodash/issues"
},
"repository": {
  "type": "git",
  "url": "https://github.com/lodash/lodash.git"
},
"engines": [
  "node",
  "rhino"
],
"jam": {
  "main": "./dist/lodash.compat.js"
},
"volo": {
  "type": "directory",
  "ignore": [
    ".*",
    "*.custom.*",
    "*.min.*",
    "*.template.*",
    "*.d.ts",
    "*.map",
    "*.md",
    "*.txt",
    "lodash.js",
    "index.js",
    "bower.json",
    "component.json",
    "doc",
    "modularize",
    "node_modules",
    "perf",
    "test",
    "vendor"
  ]
}
}

```

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1.400 log-driver 1.2.4

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"url": "<https://github.com/cainus/logdriver/issues>"

"url": "[git://github.com/cainus/logdriver.git](https://github.com/cainus/logdriver.git)"

1.401 log.io 0.3.4

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1.402 log4js 0.5.8

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This is a conversion of the [log4js](http://log4js.berlios.de/index.html) framework to work with [node](http://nodejs.org). I've mainly stripped out the browser-specific code and tidied up some of the javascript.

Out of the box it supports the following features:

- * coloured console logging
- * replacement of node's console.log functions (optional)
- * file appender, with log rolling based on file size
- * SMTP appender
- * GELF appender
- * hook.io appender
- * multiprocess appender (useful when you've got worker processes)
- * a logger for connect/express servers
- * configurable log message layout/patterns
- * different log levels for different log categories (make some parts of your app log as DEBUG, others only ERRORS, etc.)

NOTE: from log4js 0.5 onwards you'll need to explicitly enable replacement of node's console.log functions. Do this either by calling `log4js.replaceConsole()` or configuring with an object or json file like this:

```
```javascript
{
 appenders: [
 { type: "console" }
],
 replaceConsole: true
}
```
```

installation

```
npm install log4js
```

usage

Minimalist version:

```
```javascript
```

```

var log4js = require('log4js');
var logger = log4js.getLogger();
logger.debug("Some debug messages");
...

```

By default, log4js outputs to stdout with the coloured layout (thanks to [masylum](http://github.com/masylum)), so for the above you would see:

```

```bash
[2010-01-17 11:43:37.987] [DEBUG] [default] - Some debug messages
...

```

See example.js for a full example, but here's a snippet (also in fromreadme.js):

```

```javascript
var log4js = require('log4js');
//console log is loaded by default, so you won't normally need to do this
//log4js.loadAppender('console');
log4js.loadAppender('file');
//log4js.addAppender(log4js.appenders.console());
log4js.addAppender(log4js.appenders.file('logs/cheese.log'), 'cheese');

var logger = log4js.getLogger('cheese');
logger.setLevel('ERROR');

```

```

logger.trace('Entering cheese testing');
logger.debug('Got cheese.');
logger.info('Cheese is Gouda.');
logger.warn('Cheese is quite smelly.');
logger.error('Cheese is too ripe!');
logger.fatal('Cheese was breeding ground for listeria.');
...

```

Output:

```

```bash
[2010-01-17 11:43:37.987] [ERROR] cheese - Cheese is too ripe!
[2010-01-17 11:43:37.990] [FATAL] cheese - Cheese was breeding ground for listeria.
...

```

The first 5 lines of the code above could also be written as:

```

```javascript
var log4js = require('log4js');
log4js.configure({
 appenders: [
 { type: 'console' },
 { type: 'file', filename: 'logs/cheese.log', category: 'cheese' }
]
});
...

```

## configuration

You can configure the appenders and log levels manually (as above), or provide a configuration file (`log4js.configure('path/to/file.json')`), or a configuration object. The



configuration file location may also be specified via the environment variable

LOG4JS\_CONFIG (`export LOG4JS_CONFIG=path/to/file.json`).

An example file can be found in `test/log4js.json`. An example config file with log rolling is in `test/with-log-rolling.json`.

By default, the configuration file is checked for changes every 60 seconds, and if changed, reloaded. This allows changes to logging levels to occur without restarting the application.

To turn off configuration file change checking, configure with:

```
```javascript
var log4js = require('log4js');
log4js.configure('my_log4js_configuration.json', {});
```
```

To specify a different period:

```
```javascript
log4js.configure('file.json', { reloadSecs: 300 });
```
```

For FileAppender you can also pass the path to the log directory as an option where all your log files would be stored.

```
```javascript
log4js.configure('my_log4js_configuration.json', { cwd: '/absolute/path/to/log/dir' });
```
```

If you have already defined an absolute path for one of the FileAppenders in the configuration file, you could add a "absolute": true to the particular FileAppender to override the cwd option passed. Here is an example configuration file:

```
```json
##### my_log4js_configuration.json #####
{
  "appenders": [
    {
      "type": "file",
      "filename": "relative/path/to/log_file.log",
      "maxLogSize": 20480,
      "backups": 3,
      "category": "relative-logger"
    },
    {
      "type": "file",
      "absolute": true,
      "filename": "/absolute/path/to/log_file.log",
      "maxLogSize": 20480,
      "backups": 10,
      "category": "absolute-logger"
    }
  ]
}
```
```

...

Documentation for most of the core appenders can be found on the [wiki](log4js-node/wiki/Appenders), otherwise take a look at the tests and the examples.

## ## Documentation

See the [wiki](log4js-node/wiki). Improve the [wiki](log4js-node/wiki), please.

## ## Contributing

Contributions welcome, but take a look at the [rules](log4js-node/wiki/Contributing) first.

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# 1.403 log4js 0.6.10

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- \* GELF appender
- \* hook.io appender
- \* Loggly appender
- \* multiprocess appender (useful when you've got worker processes)
- \* a logger for connect/express servers
- \* configurable log message layout/patterns
- \* different log levels for different log categories (make some parts of your app log as DEBUG, others only ERRORS, etc.)

NOTE: from log4js 0.5 onwards you'll need to explicitly enable replacement of node's console.log functions. Do this either by calling `log4js.replaceConsole()` or configuring with an object or json file like this:

```
```javascript
{
```

```
appenders: [  
  { type: "console" }  
],  
replaceConsole: true  
}  
...  

```

installation

```
npm install log4js
```

usage

Minimalist version:

```
```javascript  
var log4js = require('log4js');
var logger = log4js.getLogger();
logger.debug("Some debug messages");
...

```

By default, log4js outputs to stdout with the coloured layout (thanks to [masylum](<http://github.com/masylum>)), so for the above you would see:

```
```bash  
[2010-01-17 11:43:37.987] [DEBUG] [default] - Some debug messages  
...  

```

See example.js for a full example, but here's a snippet (also in fromreadme.js):

```
```javascript  
var log4js = require('log4js');
//console log is loaded by default, so you won't normally need to do this
//log4js.loadAppender('console');
log4js.loadAppender('file');
//log4js.addAppender(log4js.appenders.console());
log4js.addAppender(log4js.appenders.file('logs/cheese.log'), 'cheese');

var logger = log4js.getLogger('cheese');
logger.setLevel('ERROR');

logger.trace('Entering cheese testing');
logger.debug('Got cheese.');
```

```
logger.info('Cheese is Gouda.');
```

```
logger.warn('Cheese is quite smelly.');
```

```
logger.error('Cheese is too ripe!');
```

```
logger.fatal('Cheese was breeding ground for listeria.');
```

```
...

```

Output:

```
```bash  
[2010-01-17 11:43:37.987] [ERROR] cheese - Cheese is too ripe!  
[2010-01-17 11:43:37.990] [FATAL] cheese - Cheese was breeding ground for listeria.  

```

```
...
```

The first 5 lines of the code above could also be written as:

```
```javascript
var log4js = require('log4js');
log4js.configure({
 appenders: [
 { type: 'console' },
 { type: 'file', filename: 'logs/cheese.log', category: 'cheese' }
]
});
```
```

```
## configuration
```

You can configure the appenders and log levels manually (as above), or provide a configuration file (`log4js.configure('path/to/file.json')`), or a configuration object. The configuration file location may also be specified via the environment variable `LOG4JS_CONFIG` (`export LOG4JS_CONFIG=path/to/file.json`).

An example file can be found in `test/log4js.json`. An example config file with log rolling is in `test/with-log-rolling.json`.

By default, the configuration file is checked for changes every 60 seconds, and if changed, reloaded. This allows changes to logging levels to occur without restarting the application.

To turn off configuration file change checking, configure with:

```
```javascript
var log4js = require('log4js');
log4js.configure('my_log4js_configuration.json', {});
```
```

To specify a different period:

```
```javascript
log4js.configure('file.json', { reloadSecs: 300 });
```
```

For FileAppender you can also pass the path to the log directory as an option where all your log files would be stored.

```
```javascript
log4js.configure('my_log4js_configuration.json', { cwd: '/absolute/path/to/log/dir' });
```
```

If you have already defined an absolute path for one of the FileAppenders in the configuration file, you could add a `"absolute": true` to the particular FileAppender to override the `cwd` option passed. Here is an example configuration file:

```
```json
my_log4js_configuration.json
{
 "appenders": [
 {
```

```

 "type": "file",
 "filename": "relative/path/to/log_file.log",
 "maxLogSize": 20480,
 "backups": 3,
 "category": "relative-logger"
 },
 {
 "type": "file",
 "absolute": true,
 "filename": "/absolute/path/to/log_file.log",
 "maxLogSize": 20480,
 "backups": 10,
 "category": "absolute-logger"
 }
]
}
...

```

Documentation for most of the core appenders can be found on the [wiki](https://github.com/nomiddlename/log4js-node/wiki/Appenders), otherwise take a look at the tests and the examples.

#### ## Documentation

See the [wiki](https://github.com/nomiddlename/log4js-node/wiki). Improve the [wiki](https://github.com/nomiddlename/log4js-node/wiki), please.

#### ## Contributing

Contributions welcome, but take a look at the [rules](https://github.com/nomiddlename/log4js-node/wiki/Contributing) first.

#### ## License

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## 1.404 log4js 0.6.22

### 1.404.1 Available under license :

# log4js-node [![Build Status](https://secure.travis-ci.org/nomiddlename/log4js-node.png?branch=master)](http://travis-ci.org/nomiddlename/log4js-node)

This is a conversion of the [log4js](https://github.com/stritti/log4js) framework to work with [node](http://nodejs.org). I've mainly stripped out the browser-specific code and tidied up some of the javascript.

Out of the box it supports the following features:

- \* coloured console logging
- \* replacement of node's console.log functions (optional)
- \* file appender, with log rolling based on file size
- \* SMTP appender
- \* GELF appender
- \* hook.io appender
- \* Loggly appender
- \* Logstash UDP appender
- \* multiprocess appender (useful when you've got worker processes)
- \* a logger for connect/express servers
- \* configurable log message layout/patterns
- \* different log levels for different log categories (make some parts of your app log as DEBUG, others only ERRORS, etc.)

NOTE: from log4js 0.5 onwards you'll need to explicitly enable replacement of node's console.log functions. Do this either by calling `log4js.replaceConsole()` or configuring with an object or json file like this:

```
```javascript
{
  appenders: [
    { type: "console" }
  ],
  replaceConsole: true
}
```
```

## installation

```
npm install log4js
```

## usage

Minimalist version:

```
```javascript
var log4js = require('log4js');
var logger = log4js.getLogger();
logger.debug("Some debug messages");
```
```

By default, log4js outputs to stdout with the coloured layout (thanks to [masyllum](http://github.com/masyllum)), so for the above you would see:

```
```bash
[2010-01-17 11:43:37.987] [DEBUG] [default] - Some debug messages
```
```

See example.js for a full example, but here's a snippet (also in fromreadme.js):

```
```javascript
var log4js = require('log4js');
//console log is loaded by default, so you won't normally need to do this
```

```
//log4js.loadAppender('console');
log4js.loadAppender('file');
//log4js.addAppender(log4js.appenders.console());
log4js.addAppender(log4js.appenders.file('logs/cheese.log'), 'cheese');
```

```
var logger = log4js.getLogger('cheese');
logger.setLevel('ERROR');

logger.trace('Entering cheese testing');
logger.debug('Got cheese. ');
logger.info('Cheese is Gouda. ');
logger.warn('Cheese is quite smelly. ');
logger.error('Cheese is too ripe!');
logger.fatal('Cheese was breeding ground for listeria. ');
...

```

Output:

```
```bash
[2010-01-17 11:43:37.987] [ERROR] cheese - Cheese is too ripe!
[2010-01-17 11:43:37.990] [FATAL] cheese - Cheese was breeding ground for listeria.
...

```

The first 5 lines of the code above could also be written as:

```
```javascript
var log4js = require('log4js');
log4js.configure({
  appenders: [
    { type: 'console' },
    { type: 'file', filename: 'logs/cheese.log', category: 'cheese' }
  ]
});
...

```

configuration

You can configure the appenders and log levels manually (as above), or provide a configuration file (`log4js.configure('path/to/file.json')`), or a configuration object. The configuration file location may also be specified via the environment variable `LOG4JS_CONFIG` (`export LOG4JS_CONFIG=path/to/file.json`).

An example file can be found in `test/log4js.json`. An example config file with log rolling is in `test/with-log-rolling.json`.

By default, the configuration file is checked for changes every 60 seconds, and if changed, reloaded. This allows changes to logging levels to occur without restarting the application.

To turn off configuration file change checking, configure with:

```
```javascript
var log4js = require('log4js');
log4js.configure('my_log4js_configuration.json', {});
...

```

To specify a different period:

```
```javascript
log4js.configure('file.json', { reloadSecs: 300 });
```
```

For FileAppender you can also pass the path to the log directory as an option where all your log files would be stored.

```
```javascript
log4js.configure('my_log4js_configuration.json', { cwd: '/absolute/path/to/log/dir' });
```
```

If you have already defined an absolute path for one of the FileAppenders in the configuration file, you could add a "absolute": true to the particular FileAppender to override the cwd option passed. Here is an example configuration file:

```
my_log4js_configuration.json
```json
{
  "appenders": [
    {
      "type": "file",
      "filename": "relative/path/to/log_file.log",
      "maxLogSize": 20480,
      "backups": 3,
      "category": "relative-logger"
    },
    {
      "type": "file",
      "absolute": true,
      "filename": "/absolute/path/to/log_file.log",
      "maxLogSize": 20480,
      "backups": 10,
      "category": "absolute-logger"
    }
  ]
}
```
```

Documentation for most of the core appenders can be found on the [wiki](https://github.com/nomiddlename/log4js-node/wiki/Appenders), otherwise take a look at the tests and the examples.

#### ## Documentation

See the [wiki](https://github.com/nomiddlename/log4js-node/wiki). Improve the [wiki](https://github.com/nomiddlename/log4js-node/wiki), please.

There's also [an example application](https://github.com/nomiddlename/log4js-example).

#### ## Contributing

Contributions welcome, but take a look at the [rules](https://github.com/nomiddlename/log4js-



node/wiki/Contributing) first.

## ## License

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# 1.405 log4js 0.6.9

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## 1.406 log4js 0.6.12

### 1.406.1 Available under license :

# log4js-node [![Build Status](https://secure.travis-ci.org/nomiddlename/log4js-node.png?branch=master)](http://travis-ci.org/nomiddlename/log4js-node)

This is a conversion of the [log4js](http://log4js.berlios.de/index.html) framework to work with [node](http://nodejs.org). I've mainly stripped out the browser-specific code and tidied up some of the javascript.

Out of the box it supports the following features:

- \* coloured console logging
- \* replacement of node's console.log functions (optional)
- \* file appender, with log rolling based on file size
- \* SMTP appender
- \* GELF appender
- \* hook.io appender
- \* Loggly appender
- \* multiprocess appender (useful when you've got worker processes)
- \* a logger for connect/express servers
- \* configurable log message layout/patterns
- \* different log levels for different log categories (make some parts of your app log as DEBUG, others only)

ERRORS, etc.)

NOTE: from log4js 0.5 onwards you'll need to explicitly enable replacement of node's console.log functions. Do this either by calling `log4js.replaceConsole()` or configuring with an object or json file like this:

```
```javascript
{
  appenders: [
    { type: "console" }
  ],
  replaceConsole: true
}
```
```

## installation

```
npm install log4js
```

## usage

Minimalist version:

```
```javascript
var log4js = require('log4js');
var logger = log4js.getLogger();
logger.debug("Some debug messages");
```
```

By default, log4js outputs to stdout with the coloured layout (thanks to [masyllum](http://github.com/masyllum)), so for the above you would see:

```
```bash
[2010-01-17 11:43:37.987] [DEBUG] [default] - Some debug messages
```
```

See example.js for a full example, but here's a snippet (also in fromreadme.js):

```
```javascript
var log4js = require('log4js');
//console log is loaded by default, so you won't normally need to do this
//log4js.loadAppender('console');
log4js.loadAppender('file');
//log4js.addAppender(log4js.appenders.console());
log4js.addAppender(log4js.appenders.file('logs/cheese.log'), 'cheese');
```

```
var logger = log4js.getLogger('cheese');
logger.setLevel('ERROR');
```

```
logger.trace('Entering cheese testing');
logger.debug('Got cheese.');
logger.info('Cheese is Gouda.');
logger.warn('Cheese is quite smelly.');
```

```
logger.error('Cheese is too ripe!');
logger.fatal('Cheese was breeding ground for listeria.');
```

```
...
```

Output:

```
```bash
[2010-01-17 11:43:37.987] [ERROR] cheese - Cheese is too ripe!
[2010-01-17 11:43:37.990] [FATAL] cheese - Cheese was breeding ground for listeria.
```
```

The first 5 lines of the code above could also be written as:

```
```javascript
var log4js = require('log4js');
log4js.configure({
 appenders: [
 { type: 'console' },
 { type: 'file', filename: 'logs/cheese.log', category: 'cheese' }
]
});
```
```

```
## configuration
```

You can configure the appenders and log levels manually (as above), or provide a configuration file (`log4js.configure('path/to/file.json')`), or a configuration object. The configuration file location may also be specified via the environment variable `LOG4JS_CONFIG` (`export LOG4JS_CONFIG=path/to/file.json`).

An example file can be found in `test/log4js.json``. An example config file with log rolling is in `test/with-log-rolling.json``.

By default, the configuration file is checked for changes every 60 seconds, and if changed, reloaded. This allows changes to logging levels to occur without restarting the application.

To turn off configuration file change checking, configure with:

```
```javascript
var log4js = require('log4js');
log4js.configure('my_log4js_configuration.json', {});
```
```

To specify a different period:

```
```javascript
log4js.configure('file.json', { reloadSecs: 300 });
```
```

For FileAppender you can also pass the path to the log directory as an option where all your log files would be stored.

```
```javascript
log4js.configure('my_log4js_configuration.json', { cwd: '/absolute/path/to/log/dir' });
```
```

If you have already defined an absolute path for one of the FileAppenders in the configuration file, you could add a

"absolute": true to the particular FileAppender to override the cwd option passed. Here is an example configuration file:

```
```json
my_log4js_configuration.json
{
 "appenders": [
 {
 "type": "file",
 "filename": "relative/path/to/log_file.log",
 "maxLogSize": 20480,
 "backups": 3,
 "category": "relative-logger"
 },
 {
 "type": "file",
 "absolute": true,
 "filename": "/absolute/path/to/log_file.log",
 "maxLogSize": 20480,
 "backups": 10,
 "category": "absolute-logger"
 }
]
}
```
```

Documentation for most of the core appenders can be found on the [wiki](https://github.com/nomiddlename/log4js-node/wiki/Appenders), otherwise take a look at the tests and the examples.

Documentation

See the [wiki](https://github.com/nomiddlename/log4js-node/wiki). Improve the [wiki](https://github.com/nomiddlename/log4js-node/wiki), please.

Contributing

Contributions welcome, but take a look at the [rules](https://github.com/nomiddlename/log4js-node/wiki/Contributing) first.

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1.407 log4js-ain2 0.1.6

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"author": "Itamar Kunik",

"url": "http://github.com/Fring/log4js-ain2"

"url": "http://github.com/Fring/log4js-ain2/issues"

1.408 Iolex 1.1.0

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1.409 Iru-cache 2.6.4

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1.410 Iru-cache 2.5.0

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1.411 media-typer 0.3.0

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1.412 media-typer 0.2.0

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media-typer

[![NPM version](https://badge.fury.io/js/media-typer.svg)](https://badge.fury.io/js/media-typer)

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Simple RFC 6838 media type parser

Installation

```
```sh
```

```
$ npm install media-typer
```

```
```
```

API

```
```js
var typer = require('media-typer')
```
```

typer.parse(string)

```
```js
var obj = typer.parse('image/svg+xml; charset=utf-8')
```
```

Parse a media type string. This will return an object with the following properties (examples are shown for the string `'image/svg+xml; charset=utf-8'`):

- `type``: The type of the media type (always lower case). Example: `'image'`
- `subtype``: The subtype of the media type (always lower case). Example: `'svg'`
- `suffix``: The suffix of the media type (always lower case). Example: `'xml'`
- `parameters``: An object of the parameters in the media type (name of parameter always lower case). Example: `{ charset: 'utf-8' }`

typer.parse(req)

```
```js
var obj = typer.parse(req)
```
```

Parse the `'content-type'` header from the given `req``. Short-cut for `typer.parse(req.headers['content-type'])``.

typer.parse(res)

```
```js
var obj = typer.parse(res)
```
```

Parse the `'content-type'` header set on the given `res``. Short-cut for `typer.parse(res.getHeader('content-type'))``.

typer.format(obj)

```
```js
var obj = typer.format({ type: 'image', subtype: 'svg', suffix: 'xml' })
```
```

Format an object into a media type string. This will return a string of the mime type for the given object. For the properties of the object, see the documentation for `typer.parse(string)`.

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1.413 MediaInfoLib 0.7.98

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1.414 memory-pool 1.2.0

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1.415 merge-descriptors 1.0.0

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1.417 merge-descriptors 0.0.2

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Merge Descriptors [![Build Status](https://travis-ci.org/component/merge-descriptors.png)](https://travis-ci.org/component/merge-descriptors)

Merge objects using descriptors.

```
``js
var thing = {
  get name() {
    return 'jon'
  }
}

var animal = {

}

merge(animal, thing)

animal.name === 'jon'
``
```

API

merge(destination, source)

Overwrites `destination`'s descriptors with `source`'s.

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1.418 method-override 1.0.2

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```
# method-override [![Build Status](https://travis-ci.org/expressjs/method-override.svg)](https://travis-ci.org/expressjs/method-override) [![NPM version](https://badge.fury.io/js/method-override.svg)](http://badge.fury.io/js/method-override)
```

Lets you use HTTP verbs such as PUT or DELETE in places you normally can't.

Previously `connect.methodOverride()`.

```
## Install
```

```
```sh
$ npm install method-override
```
```

```
## API
```

****NOTE**** It is very important that this module is used ****before**** any module that needs to know the method of the request (for example, it `_must_` be used prior to the `csurf`` module).

```
### methodOverride(key)
```

Create a new middleware function to override the `req.method`` property with a new value. This value will be pulled from the `X-HTTP-Method-Override`` header of the request. If this header is not present, then this module will look in the `req.body`` object for a property name given by the `key`` argument (and if found, will delete the property from `req.body``).

If the found method is supported by node.js core, then `req.method`` will be set to this value, as if it has originally been that value. The previous `req.method`` value will be stored in `req.originalMethod``.

```
#### key
```

This is the property to look for the overwritten method in the `req.body`` object. This defaults to `"_method"`.

```
## Examples
```

```
```js
```

```
var bodyParser = require('body-parser')
var connect = require('connect')
var methodOverride = require('method-override')

app.use(bodyParser())
app.use(methodOverride())
...

```

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## 1.422 method-override 1.0.0

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# Method Override

Previously `connect.methodOverride()`.

Usage:

```
```js
var app = require('connect');
app.use(require('body-parser')());
app.use(require('method-override')())
```
```

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# 1.427 methods 0.0.1

## 1.427.1 Available under license :

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{
 "name": "methods",
 "version": "0.0.1",
 "description": "HTTP methods that node supports",
 "main": "index.js",
 "scripts": {
 "test": "echo \"Error: no test specified\" && exit 1"
 },
 "keywords": [
 "http",
 "methods"
],
 "author": "TJ Holowaychuk",
 "license": "MIT"
}
```

# 1.428 mime 1.2.6

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# 1.439 minimatch 2.0.4

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```
{
 "author": "Isaac Z. Schlueter <i@izs.me> (http://blog.izs.me)",
 "name": "minimatch",
 "description": "a glob matcher in javascript",
 "version": "2.0.4",
 "repository": {
 "type": "git",
 "url": "git://github.com/isaacs/minimatch.git"
 },
 "main": "minimatch.js",
 "scripts": {
 "test": "tap test/*.js",
 "prepublish": "browserify -o browser.js -e minimatch.js --bare"
 },
 "engines": {
 "node": "*"
 },
 "dependencies": {
 "brace-expansion": "^1.0.0"
 },
 "devDependencies": {
 "browserify": "^9.0.3",
 "tap": ""
 },
 "license": {
 "type": "MIT",
 "url": "http://github.com/isaacs/minimatch/raw/master/LICENSE"
 },
 "files": [
 "minimatch.js",
 "browser.js"
]
}
```

# 1.440 minimatch 2.0.8

## 1.440.1 Available under license :

```
{
 "author": "Isaac Z. Schlueter <i@izs.me> (http://blog.izs.me)",
 "name": "minimatch",
 "description": "a glob matcher in javascript",
 "version": "2.0.8",
 "repository": {
```



```

 "type": "git",
 "url": "git://github.com/isaacs/minimatch.git"
 },
 "main": "minimatch.js",
 "scripts": {
 "pretest": "standard minimatch.js test/*.js",
 "test": "tap test/*.js",
 "prepublish": "browserify -o browser.js -e minimatch.js --bare"
 },
 "engines": {
 "node": "*"
 },
 "dependencies": {
 "brace-expansion": "^1.0.0"
 },
 "devDependencies": {
 "browserify": "^9.0.3",
 "standard": "^3.7.2",
 "tap": ""
 },
 "license": "ISC",
 "files": [
 "minimatch.js",
 "browser.js"
]
}

```

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## 1.458 mongodb 1.1.8

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Up to date documentation

=====

[Documentation](<http://mongodb.github.com/node-mongodb-native/>)

Install

=====

To install the most recent release from npm, run:

```
npm install mongodb
```

That may give you a warning telling you that bugs['web'] should be bugs['url'], it would be safe to ignore it (this has been fixed in the development version)

To install the latest from the repository, run::

```
npm install path/to/node-mongodb-native
```

Community

=====

Check out the google group [node-mongodb-native](<http://groups.google.com/group/node-mongodb-native>) for questions/answers from users of the driver.

## Introduction

=====

This is a node.js driver for MongoDB. It's a port (or close to a port) of the library for ruby at <http://github.com/mongodb/mongo-ruby-driver/>.

A simple example of inserting a document.

```
````javascript
var client = new Db('test', new Server("127.0.0.1", 27017, {})),
    test = function (err, collection) {
    collection.insert({a:2}, function(err, docs) {

        collection.count(function(err, count) {
            test.assertEquals(1, count);
        });

        // Locate all the entries using find
        collection.find().toArray(function(err, results) {
            test.assertEquals(1, results.length);
            test.assertTrue(results[0].a === 2);

            // Let's close the db
            client.close();
        });
    });
};

client.open(function(err, p_client) {
    client.collection('test_insert', test);
});
````
```

## Data types

=====

To store and retrieve the non-JSON MongoDB primitives

[ObjectID](<http://www.mongodb.org/display/DOCS/Object+IDs>), Long, Binary,

[Timestamp](<http://www.mongodb.org/display/DOCS/Timestamp+data+type>),

[DBRef](<http://www.mongodb.org/display/DOCS/Database+References#DatabaseReferences-DBRef>), Code).

In particular, every document has a unique `\_id` which can be almost any type, and by default a 12-byte ObjectID is created. ObjectIDs can be represented as 24-digit hexadecimal strings, but you must convert the string back into an ObjectID before you can use it in the database. For example:

```
````javascript
// Get the objectID type
```

```

var ObjectID = require('mongodb').ObjectID;

var idString = '4e4e1638c85e808431000003';
collection.findOne({_id: new ObjectID(idString)}, console.log) // ok
collection.findOne({_id: idString}, console.log) // wrong! callback gets undefined
...

```

Here are the constructors the non-Javascript BSON primitive types:

```

```javascript
// Fetch the library
var mongo = require('mongodb');
// Create new instances of BSON types
new mongo.Long(numberString)
new mongo.ObjectID(hexString)
new mongo.Timestamp() // the actual unique number is generated on insert.
new mongo.DBRef(collectionName, id, dbName)
new mongo.Binary(buffer) // takes a string or Buffer
new mongo.Code(code, [context])
new mongo.Symbol(string)
new mongo.MinKey()
new mongo.MaxKey()
new mongo.Double(number) // Force double storage
...

```

The C/C++ bson parser/serializer

-----

If you are running a version of this library has the C/C++ parser compiled, to enable the driver to use the C/C++ bson parser pass it the option `native_parser:true` like below

```

```javascript
// using native_parser:
var client = new Db('integration_tests_20',
    new Server("127.0.0.1", 27017),
    { native_parser:true });
...

```

The C++ parser uses the js objects both for serialization and deserialization.

GitHub information

=====

The source code is available at <http://github.com/mongodb/node-mongodb-native>. You can either clone the repository or download a tarball of the latest release.

Once you have the source you can test the driver by running


```
$ make test
```

in the main directory. You will need to have a mongo instance running on localhost for the integration tests to pass.

Examples

```
=====
```

For examples look in the examples/ directory. You can execute the examples using node.

```
$ cd examples
$ node queries.js
```

GridStore

```
=====
```

The GridStore class allows for storage of binary files in mongoDB using the mongoDB defined files and chunks collection definition.

For more information have a look at [Gridstore](<https://github.com/mongodb/node-mongodb-native/blob/master/docs/gridfs.md>)

Replicasets

```
=====
```

For more information about how to connect to a replicaset have a look at [Replicasets](<https://github.com/mongodb/node-mongodb-native/blob/master/docs/replicaset.md>)

Primary Key Factories

```
-----
```

Defining your own primary key factory allows you to generate your own series of id's (this could f.ex be to use something like ISBN numbers). The generated the id needs to be a 12 byte long "string".

Simple example below

```
````javascript
// Custom factory (need to provide a 12 byte array);
CustomPKFactory = function() {}
CustomPKFactory.prototype = new Object();
CustomPKFactory.createPk = function() {
 return new ObjectID("aaaaaaaaaaaa");
}

var p_client = new Db('integration_tests_20', new Server("127.0.0.1", 27017, {}), {'pk':CustomPKFactory});
p_client.open(function(err, p_client) {
 p_client.dropDatabase(function(err, done) {
 p_client.createCollection('test_custom_key', function(err, collection) {
 collection.insert({'a':1}, function(err, docs) {
 collection.find({'_id':new ObjectID("aaaaaaaaaaaa")}, function(err, cursor) {
```

```

 cursor.toArray(function(err, items) {
 test.assertEquals(1, items.length);

 // Let's close the db
 p_client.close();
 });
 });
});
});
});
});
...

```

#### Strict mode

-----

Each database has an optional strict mode. If it is set then asking for a collection that does not exist will return an Error object in the callback. Similarly if you attempt to create a collection that already exists. Strict is provided for convenience.

```

```javascript
var error_client = new Db('integration_tests_', new Server("127.0.0.1", 27017, {auto_reconnect: false}),
{strict:true});
test.assertEquals(true, error_client.strict);

error_client.open(function(err, error_client) {
error_client.collection('does-not-exist', function(err, collection) {
  test.assertTrue(err instanceof Error);
  test.assertEquals("Collection does-not-exist does not exist. Currently in strict mode.", err.message);
});

error_client.createCollection('test_strict_access_collection', function(err, collection) {
error_client.collection('test_strict_access_collection', function(err, collection) {
  test.assertTrue(collection instanceof Collection);
  // Let's close the db
  error_client.close();
});
});
});
...

```

Documentation

=====

If this document doesn't answer your questions, see the source of [Collection](<https://github.com/mongodb/node-mongodb-native/blob/master/lib/mongodb/collection.js>) or [Cursor](<https://github.com/mongodb/node-mongodb-native/blob/master/lib/mongodb/cursor.js>), or the documentation at MongoDB for query and update formats.

Find

The find method is actually a factory method to create Cursor objects. A Cursor lazily uses the connection the first time you call `nextObject`, `each`, or `toArray`.

The basic operation on a cursor is the `nextObject` method that fetches the next matching document from the database. The convenience methods `each` and `toArray` call `nextObject` until the cursor is exhausted.

Signatures:

```
````javascript
var cursor = collection.find(query, [fields], options);
cursor.sort(fields).limit(n).skip(m).

cursor.nextObject(function(err, doc) {});
cursor.each(function(err, doc) {});
cursor.toArray(function(err, docs) {});

cursor.rewind() // reset the cursor to its initial state.
````
```

Useful chainable methods of cursor. These can optionally be options of `find` instead of method calls:

- * `.limit(n).skip(m)` to control paging.
- * `.sort(fields)` Order by the given fields. There are several equivalent syntaxes:
- * `.sort({field1: -1, field2: 1})` descending by field1, then ascending by field2.
- * `.sort(['field1', 'desc'], ['field2', 'asc'])` same as above
- * `.sort(['field1', 'desc'], 'field2')` same as above
- * `.sort('field1')` ascending by field1

Other options of `find`:

- * `fields` the fields to fetch (to avoid transferring the entire document)
- * `tailable` if true, makes the cursor [tailable](<http://www.mongodb.org/display/DOCS/Tailable+Cursors>).
- * `batchSize` The number of the subset of results to request the database to return for every request. This should initially be greater than 1 otherwise the database will automatically close the cursor. The batch size can be set to 1 with `batchSize(n, function(err){})` after performing the initial query to the database.
- * `hint` See [Optimization: hint](<http://www.mongodb.org/display/DOCS/Optimization#Optimization-Hint>).
- * `explain` turns this into an explain query. You can also call `explain()` on any cursor to fetch the explanation.
- * `snapshot` prevents documents that are updated while the query is active from being returned multiple times. See more [details about query

snapshots](<http://www.mongodb.org/display/DOCS/How+to+do+Snapshotted+Queries+in+the+Mongo+Database>).

* `timeout` if false, asks MongoDB not to time out this cursor after an inactivity period.

For information on how to create queries, see the

[MongoDB section on querying](<http://www.mongodb.org/display/DOCS/Querying>).

```
```javascript
var mongodb = require('mongodb');
var server = new mongodb.Server("127.0.0.1", 27017, {});
new mongodb.Db('test', server, {}).open(function (error, client) {
 if (error) throw error;
 var collection = new mongodb.Collection(client, 'test_collection');
 collection.find({}, {limit:10}).toArray(function(err, docs) {
 console.dir(docs);
 });
});
```
```

Insert

Signature:

```
```javascript
collection.insert(docs, options, [callback]);
```
```

where `docs` can be a single document or an array of documents.

Useful options:

* `safe:true` Should always set if you have a callback.

See also: [MongoDB docs for insert](<http://www.mongodb.org/display/DOCS/Inserting>).

```
```javascript
var mongodb = require('mongodb');
var server = new mongodb.Server("127.0.0.1", 27017, {});
new mongodb.Db('test', server, {}).open(function (error, client) {
 if (error) throw error;
 var collection = new mongodb.Collection(client, 'test_collection');
 collection.insert({hello: 'world'}, {safe:true},
 function(err, objects) {
 if (err) console.warn(err.message);
 if (err && err.message.indexOf('E11000 ') !== -1) {
 // this _id was already inserted in the database
 }
 }
);
});
```
```

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

Note that there's no reason to pass a callback to the insert or update commands unless you use the `safe:true` option. If you don't specify `safe:true`, then your callback will be called immediately.

Update; update and insert (upsert)

-----

The update operation will update the first document that matches your query (or all documents that match if you use `multi:true`).

If `safe:true`, `upsert` is not set, and no documents match, your callback will return 0 documents updated.

See the [MongoDB docs](<http://www.mongodb.org/display/DOCS/Updating>) for the modifier (`\$inc`, `\$set`, `\$push`, etc.) formats.

Signature:

```
```javascript
collection.update(criteria, objNew, options, [callback]);
```
```

Useful options:

- \* `safe:true` Should always set if you have a callback.
- \* `multi:true` If set, all matching documents are updated, not just the first.
- \* `upsert:true` Atomically inserts the document if no documents matched.

Example for `update`:

```
```javascript
var mongodb = require('mongodb');
var server = new mongodb.Server("127.0.0.1", 27017, {});
new mongodb.Db('test', server, {}).open(function (error, client) {
  if (error) throw error;
  var collection = new mongodb.Collection(client, 'test_collection');
  collection.update({hi: 'here'}, {$set: {hi: 'there'}}, {safe:true},
    function(err) {
      if (err) console.warn(err.message);
      else console.log('successfully updated');
    });
});
```
```

Find and modify

-----  
`findAndModify`` is like `update``, but it also gives the updated document to your callback. But there are a few key differences between `findAndModify` and `update`:

1. The signatures differ.
2. You can only `findAndModify` a single item, not multiple items.

Signature:

```
```javascript
collection.findAndModify(query, sort, update, options, callback)
```
```

The `sort` parameter is used to specify which object to operate on, if more than one document matches. It takes the same format as the cursor `sort` (see `Connection.find` above).

See the

[MongoDB docs for `findAndModify`](<http://www.mongodb.org/display/DOCS/findAndModify+Command>) for more details.

Useful options:

- \* `remove:true`` set to a true to remove the object before returning
- \* `new:true`` set to true if you want to return the modified object rather than the original. Ignored for remove.
- \* `upsert:true`` Atomically inserts the document if no documents matched.

Example for `findAndModify``:

```
```javascript
var mongodb = require('mongodb');
var server = new mongodb.Server("127.0.0.1", 27017, {});
new mongodb.Db('test', server, {}).open(function (error, client) {
  if (error) throw error;
  var collection = new mongodb.Collection(client, 'test_collection');
  collection.findAndModify({hello: 'world'}, [['_id','asc']], {$set: {hi: 'there'}}, {},
    function(err, object) {
      if (err) console.warn(err.message);
      else console.dir(object); // undefined if no matching object exists.
    });
});
```
```

Save

----

The `save` method is a shorthand for `upsert` if the document contains an `_id`, or an `insert` if there is no `_id`.

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Just as Felix Geisendörfer I'm also working on the driver for my own startup and this driver is a big project that also benefits other companies who are using MongoDB.

If your company could benefit from a even better-engineered node.js mongodb driver I would appreciate any type of sponsorship you may be able to provide. All the sponsors will get a lifetime display in this readme, priority support and help on problems and votes on the roadmap decisions for the driver. If you are interested contact me on [christkv AT g m a i l.com](mailto:christkv@gmail.com) for details.

And I'm very thankful for code contributions. If you are interested in working on features please contact me so we can discuss API design and testing.

## Release Notes

=====

See HISTORY

## Credits

=====

1. [10gen](http://github.com/mongodb/mongo-ruby-driver/)
2. [Google Closure Library](http://code.google.com/closure/library/)
3. [Jonas Raoni Soares Silva](http://jsfromhell.com/classes/binary-parser)

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## THE BASIC LIBRARY FUNCTIONS

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# 1.462 mongoose 3.9.7

## 1.462.1 Available under license :

# Mongoose

Mongoose is a [MongoDB](<http://www.mongodb.org/>) object modeling tool designed to work in an asynchronous environment.

[![Build Status](<https://travis-ci.org/LearnBoost/mongoose.png?branch=master>)](<https://travis-ci.org/LearnBoost/mongoose>)

## Documentation

[mongoosejs.com](<http://mongoosejs.com/>)

## Support

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[</a>](http://runnable.com/mongoose)

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First install [node.js](<http://nodejs.org/>) and [mongodb](<http://www.mongodb.org/downloads>). Then:

```
```sh
$ npm install mongoose
```
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## ## Stability

The current stable branch is [3.8.x](https://github.com/LearnBoost/mongoose/tree/3.8.x). New (unstable) development always occurs on the [master](https://github.com/LearnBoost/mongoose/tree/master) branch.

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Both `connect` and `createConnection` take a `mongodb://` URI, or the parameters `host, database, port, options`.

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

mongoose.connect('mongodb://localhost/my_database');
```
```

Once connected, the `open` event is fired on the `Connection` instance. If you're using `mongoose.connect`, the `Connection` is `mongoose.connection`. Otherwise, `mongoose.createConnection` return value is a `Connection`.

**\*\*Important!\*\*** Mongoose buffers all the commands until it's connected to the database. This means that you don't have to wait until it connects to MongoDB in order to define models, run queries, etc.

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Models are defined through the `Schema` interface.

```
```js
var Schema = mongoose.Schema
  , ObjectId = Schema.ObjectId;

var BlogPost = new Schema({
  author  : ObjectId
  , title  : String
  , body   : String
  , date   : Date
});
```
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Aside from defining the structure of your documents and the types of data you're storing, a `Schema` handles the

definition of:

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The following example shows some of these features:

```
```js
var Comment = new Schema({
  name : { type: String, default: 'hahaha' }
, age  : { type: Number, min: 18, index: true }
, bio  : { type: String, match: /^[a-z]/ }
, date : { type: Date, default: Date.now }
, buff : Buffer
});

// a setter
Comment.path('name').set(function (v) {
  return capitalize(v);
});

// middleware
Comment.pre('save', function (next) {
  notify(this.get('email'));
  next();
});
```
```

Take a look at the example in `examples/schema.js`` for an end-to-end example of a typical setup.

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Once we define a model through `mongoose.model('ModelName', mySchema)``, we can access it through the same function

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```js
var myModel = mongoose.model('ModelName');
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Or just do it all at once

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var MyModel = mongoose.model('modelName', mySchema);
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We can then instantiate it, and save it:

```
```js
var instance = new MyModel();
instance.my.key = 'hello';
instance.save(function (err) {
  //
});
```
```

Or we can find documents from the same collection

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```js
MyModel.find({}, function (err, docs) {
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```js
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, MyModel = conn.model('modelName', schema)
, m = new MyModel();
m.save(); // works
```
```

vs

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```js
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, m = new MyModel();
m.save(); // does not work b/c the default connection object was never connected
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In the first example snippet, we defined a key in the Schema that looks like:

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...
comments: [Comments]
...
```

Where `Comments` is a `Schema` we created. This means that creating embedded documents is as simple as:

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```js
// retrieve my model
var BlogPost = mongoose.model('BlogPost');

// create a blog post
var post = new BlogPost();

// create a comment
post.comments.push({ title: 'My comment' });

post.save(function (err) {
  if (!err) console.log('Success!');
});
```
```

The same goes for removing them:

```
```js
BlogPost.findById(myId, function (err, post) {
  if (!err) {
    post.comments[0].remove();
    post.save(function (err) {
      // do something
    });
  }
});
```
```

Embedded documents enjoy all the same features as your models. Defaults, validators, middleware. Whenever an error occurs, it's bubbled to the `save()` error callback, so error handling is a snap!

Mongoose interacts with your embedded documents in arrays `_atomically_`, out of the box.

### Middleware

See the [docs](<http://mongoosejs.com/docs/middleware.html>) page.

#### Intercepting and mutating method arguments

You can intercept method arguments via middleware.



For example, this would allow you to broadcast changes about your Documents every time someone `set`s a path in your Document to a new value:

```
```js
schema.pre('set', function (next, path, val, type) {
  // `this` is the current Document
  this.emit('set', path, val);

  // Pass control to the next pre
  next();
});
```
```

Moreover, you can mutate the incoming `method` arguments so that subsequent middleware see different values for those arguments. To do so, just pass the new values to `next`:

```
```js
.pre(method, function firstPre (next, methodArg1, methodArg2) {
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  next("altered-" + methodArg1.toString(), methodArg2);
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// pre declaration is chainable
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`type`, when used in a schema has special meaning within Mongoose. If your schema requires using `type` as a nested property you must use object notation:

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new Schema({
  broken: { type: Boolean }
, asset : {
```

```

    name: String
    , type: String // uh oh, it broke. asset will be interpreted as String
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});

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  works: { type: Boolean }
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  }
});
```

```

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The driver being used defaults to [node-mongodb-native](https://github.com/mongodb/node-mongodb-native) and is directly accessible through `YourModel.collection`. **Note**: using the driver directly bypasses all Mongoose power-tools like validation, getters, setters, hooks, etc.

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# 1.463 mongoose 3.8.24

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[![Build Status](https://travis-ci.org/LearnBoost/mongoose.png?branch=3.8.x)](https://travis-ci.org/LearnBoost/mongoose)

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``sh
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```

...

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The following example shows some of these features:

```

```js
var Comment = new Schema({
  name : { type: String, default: 'hahaha' }
, age  : { type: Number, min: 18, index: true }
, bio  : { type: String, match: /[a-z]/ }
, date : { type: Date, default: Date.now }
, buff : Buffer
});

// a setter
Comment.path('name').set(function (v) {
  return capitalize(v);
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// middleware
Comment.pre('save', function (next) {
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Or just do it all at once

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...

We can then instantiate it, and save it:

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```js
var instance = new MyModel();
instance.my.key = 'hello';
instance.save(function (err) {
  //
});
```
```

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```
```js
MyModel.find({}, function (err, docs) {
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  // `this` is the current Document
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  // Pass control to the next pre
  next();
});
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```

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# 1.464 mongoose 3.8.25

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You can also `findOne`, `findById`, `update`, etc. For more details check out [the docs](<http://mongoosejs.com/docs/queries.html>).

**\*\*Important!\*\*** If you opened a separate connection using `mongoose.createConnection()` but attempt to access the model through `mongoose.model('ModelName')` it will not work as expected since it is not hooked up to an active db connection. In this case access your model through the connection you created:

```
```js
var conn = mongoose.createConnection('your connection string')
, MyModel = conn.model('ModelName', schema)
, m = new MyModel;
m.save(); // works
```
```

vs

```
```js
var conn = mongoose.createConnection('your connection string')
, MyModel = mongoose.model('ModelName', schema)
, m = new MyModel;
m.save(); // does not work b/c the default connection object was never connected
```
```

### ### Embedded Documents

In the first example snippet, we defined a key in the Schema that looks like:

```
```
comments: [Comments]
```
```

...

Where `Comments` is a `Schema` we created. This means that creating embedded documents is as simple as:

```
```js
// retrieve my model
var BlogPost = mongoose.model('BlogPost');

// create a blog post
var post = new BlogPost();

// create a comment
post.comments.push({ title: 'My comment' });

post.save(function (err) {
  if (!err) console.log('Success!');
});
```
```

The same goes for removing them:

```
```js
BlogPost.findById(myId, function (err, post) {
  if (!err) {
    post.comments[0].remove();
    post.save(function (err) {
      // do something
    });
  }
});
```
```

Embedded documents enjoy all the same features as your models. Defaults, validators, middleware. Whenever an error occurs, it's bubbled to the `save()` error callback, so error handling is a snap!

Mongoose interacts with your embedded documents in arrays `_atomically_`, out of the box.

### ### Middleware

See the [docs](<http://mongoosejs.com/docs/middleware.html>) page.

### #### Intercepting and mutating method arguments

You can intercept method arguments via middleware.

For example, this would allow you to broadcast changes about your Documents every time someone `set`s a path in your Document to a new value:

```

```js
schema.pre('set', function (next, path, val, type) {
  // `this` is the current Document
  this.emit('set', path, val);

  // Pass control to the next pre
  next();
});
```

```

Moreover, you can mutate the incoming `method` arguments so that subsequent middleware see different values for those arguments. To do so, just pass the new values to `next`:

```

```js
.pre(method, function firstPre (next, methodArg1, methodArg2) {
  // Mutate methodArg1
  next("altered-" + methodArg1.toString(), methodArg2);
});

// pre declaration is chainable
.pre(method, function secondPre (next, methodArg1, methodArg2) {
  console.log(methodArg1);
  // => 'altered-originalValOfMethodArg1'

  console.log(methodArg2);
  // => 'originalValOfMethodArg2'

  // Passing no arguments to `next` automatically passes along the current argument values
  // i.e., the following `next()` is equivalent to `next(methodArg1, methodArg2)`
  // and also equivalent to, with the example method arg
  // values, `next('altered-originalValOfMethodArg1', 'originalValOfMethodArg2')`
  next();
});
```

```

#### Schema gotcha

`type`, when used in a schema has special meaning within Mongoose. If your schema requires using `type` as a nested property you must use object notation:

```

```js
new Schema({
  broken: { type: Boolean }
, asset : {
  name: String
  , type: String // uh oh, it broke. asset will be interpreted as String
  }
});
```

```

```
new Schema({
 works: { type: Boolean }
, asset : {
 name: String
 , type: { type: String } // works. asset is an object with a type property
 }
});
...

```

### Driver access

The driver being used defaults to [node-mongodb-native](<https://github.com/mongodb/node-mongodb-native>) and is directly accessible through `YourModel.collection`. **Note**: using the driver directly bypasses all Mongoose power-tools like validation, getters, setters, hooks, etc.

## API Docs

Find the API docs [here](<http://mongoosejs.com/docs/api.html>), generated using [dox](<http://github.com/visionmedia/dox>).

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## 1.465 mongoose 3.6.17



## 1.465.1 Available under license :

## What's Mongoose?

Mongoose is a [MongoDB](http://www.mongodb.org/) object modeling tool designed to work in an asynchronous environment.

## Documentation

[mongoosejs.com](http://mongoosejs.com/)

## Try it live

[></a>](https://runnable.com/#learnboost/mongoose/code.js/launch)

## Support

- [Stack Overflow](http://stackoverflow.com/questions/tagged/mongoose)
- [bug reports](https://github.com/learnboost/mongoose/issues/)
- [help forum](http://groups.google.com/group/mongoose-orm)
- [10gen support](http://www.mongodb.org/display/DOCS/Technical+Support)
- (irc) #mongoosejs on freenode

## Installation

First install [node.js](http://nodejs.org/) and [mongodb](http://www.mongodb.org/downloads).

```
$ npm install mongoose
```

## Plugins

Check out the [plugins search site](http://plugins.mongoosejs.com/) to see hundreds of related modules from the community.

## Contributors

View all 90+ [contributors](https://github.com/learnboost/mongoose/graphs/contributors).

## Get Involved

Stand up and be counted as a

[contributor](https://github.com/LearnBoost/mongoose/blob/master/CONTRIBUTING.md) too!

## Overview

### Connecting to MongoDB

First, we need to define a connection. If your app uses only one database, you should use `mongoose.connect``. If you need to create additional connections, use `mongoose.createConnection``.

Both `connect` and `createConnection` take a `mongodb://` URI, or the parameters `host`, `database`, `port`, `options`.

```
var mongoose = require('mongoose');

mongoose.connect('mongodb://localhost/my_database');
```

Once connected, the `open` event is fired on the `Connection` instance. If you're using `mongoose.connect`, the `Connection` is `mongoose.connection`. Otherwise, `mongoose.createConnection` return value is a `Connection`.

**\*\*Important!\*\*** Mongoose buffers all the commands until it's connected to the database. This means that you don't have to wait until it connects to MongoDB in order to define models, run queries, etc.

### ### Defining a Model

Models are defined through the `Schema` interface.

```
var Schema = mongoose.Schema
 , ObjectId = Schema.ObjectId;

var BlogPost = new Schema({
 author : ObjectId
 , title : String
 , body : String
 , date : Date
});
```

Aside from defining the structure of your documents and the types of data you're storing, a `Schema` handles the definition of:

- \* [Validators](<http://mongoosejs.com/docs/validation.html>) (async and sync)
- \* [Defaults]([http://mongoosejs.com/docs/api.html#schematype\\_SchemaType-default](http://mongoosejs.com/docs/api.html#schematype_SchemaType-default))
- \* [Getters]([http://mongoosejs.com/docs/api.html#schematype\\_SchemaType-get](http://mongoosejs.com/docs/api.html#schematype_SchemaType-get))
- \* [Setters]([http://mongoosejs.com/docs/api.html#schematype\\_SchemaType-set](http://mongoosejs.com/docs/api.html#schematype_SchemaType-set))
- \* [Indexes](<http://mongoosejs.com/docs/guide.html#indexes>)
- \* [Middleware](<http://mongoosejs.com/docs/middleware.html>)
- \* [Methods](<http://mongoosejs.com/docs/guide.html#methods>) definition
- \* [Statics](<http://mongoosejs.com/docs/guide.html#statics>) definition
- \* [Plugins](<http://mongoosejs.com/docs/plugins.html>)
- \* [pseudo-JOINs](<http://mongoosejs.com/docs/populate.html>)

The following example shows some of these features:

```
var Comment = new Schema({
 name : { type: String, default: 'hahaha' }
 , age : { type: Number, min: 18, index: true }
 , bio : { type: String, match: /[a-z]/ }
 , date : { type: Date, default: Date.now }
```

```

 , buff : Buffer
 });

 // a setter
 Comment.path('name').set(function (v) {
 return capitalize(v);
 });

 // middleware
 Comment.pre('save', function (next) {
 notify(this.get('email'));
 next();
 });

```

Take a look at the example in `examples/schema.js` for an end-to-end example of a typical setup.

### ### Accessing a Model

Once we define a model through `mongoose.model('ModelName', mySchema)`, we can access it through the same function

```
var myModel = mongoose.model('ModelName');
```

Or just do it all at once

```
var MyModel = mongoose.model('ModelName', mySchema);
```

We can then instantiate it, and save it:

```

var instance = new MyModel();
instance.my.key = 'hello';
instance.save(function (err) {
 //
});

```

Or we can find documents from the same collection

```

MyModel.find({}, function (err, docs) {
 // docs.forEach
});

```

You can also `findOne`, `findById`, `update`, etc. For more details check out [the docs](<http://mongoosejs.com/docs/queries.html>).

**\*\*Important!\*\*** If you opened a separate connection using `mongoose.createConnection()` but attempt to access the model through `mongoose.model('ModelName')` it will not work as expected since it is not hooked up to an active db connection. In this case access your model through the connection you created:

```
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var MyModel = conn.model('modelName', schema);
var m = new MyModel;
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```

vs

```
var conn = mongoose.createConnection('your connection string');
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You can intercept method arguments via middleware.

For example, this would allow you to broadcast changes about your Documents every time someone `set`s a path in your Document to a new value:

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 this.emit('set', path, val);

 // Pass control to the next pre
 next();
});
```

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 // => 'altered-originalValOfMethodArg1'

 console.log(methodArg2);
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 // i.e., the following `next()` is equivalent to `next(methodArg1, methodArg2)`
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# 1.466 mongoose-paginate 3.1.0

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# 1.467 monocle 0.1.50

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## 1.468 morgan 1.5.3

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## 1.470 morgan 1.0.0

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# Connect Logger

Connect's logging middleware. Named after [Dexter]([http://en.wikipedia.org/wiki/Dexter\\_Morgan](http://en.wikipedia.org/wiki/Dexter_Morgan)), a show you should not watch until completion. You may view the old docs at <http://www.senchalabs.org/connect/logger.html>. Otherwise, view the source code's JSDocs.

## License

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# 1.471 morgan 1.2.2

## 1.471.1 Available under license :

# morgan

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

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

[![Coverage

Status](https://img.shields.io/coveralls/expressjs/morgan.svg?branch=master)](https://coveralls.io/r/expressjs/morgan)

HTTP request logger middleware for node.js

> Named after [Dexter](http://en.wikipedia.org/wiki/Dexter\_Morgan), a show you should not watch until completion.

## API

```
```js
var express = require('express')
var morgan = require('morgan')
```

```
var app = express()
app.use(morgan('combined'))
```
```

### morgan(format, options)

Create a new morgan logger middleware function using the given `format` and `options`. The `format` argument may be a string of a predefined name (see below for the names), a string of a format string, or a function that will produce a log entry.

```
```js
// a pre-defined name
morgan('combined')

// a format string
morgan(':remote-addr :method :url')

// a custom function
morgan(function (req, res) {
  return req.method + ' ' + req.url
})
```
```

#### Options

Morgan accepts these properties in the options object.

#### #### buffer

Buffer duration before writing logs to the `stream`, defaults to `false`. When set to `true`, defaults to `1000 ms`.

#### #### immediate

Write log line on request instead of response. This means that a requests will be logged even if the server crashes, but data from the response cannot be logged (like the response code).

#### #### skip

Function to determine if logging is skipped, defaults to `false`. This function will be called as `skip(req, res)`.

```
```js
// only log error responses
morgan('combined', {
  skip: function (req, res) { return res.statusCode < 400 }
})
```
```

#### #### stream

Output stream for writing log lines, defaults to `process.stdout`.

#### #### Predefined Formats

There are various pre-defined formats provided:

#### #### combined

Standard Apache combined log output.

...

```
:remote-addr - :remote-user [:date] ":method :url HTTP/:http-version" :status :res[content-length] ":referrer" ":user-agent"
```

...

#### #### common

Standard Apache common log output.

...

```
:remote-addr - :remote-user [:date] ":method :url HTTP/:http-version" :status :res[content-length]
```

...

#### ##### dev

Concise output colored by response status for development use. The `:status` token will be colored red for server error codes, yellow for client error codes, cyan for redirection codes, and uncolored for all other codes.

...

```
:method :url :status :response-time ms - :res[content-length]
```

...

#### ##### short

Shorter than default, also including response time.

...

```
:remote-addr :remote-user :method :url HTTP/:http-version :status :res[content-length] - :response-time ms
```

...

#### ##### tiny

The minimal output.

...

```
:method :url :status :res[content-length] - :response-time ms
```

...

#### #### Tokens

- `:req[header]` ex: `:req[Accept]`
- `:res[header]` ex: `:res[Content-Length]`
- `:http-version`
- `:response-time`
- `:remote-addr`
- `:remote-user`
- `:date`
- `:method`
- `:url`
- `:referrer`
- `:user-agent`
- `:status`

To define a token, simply invoke `morgan.token()` with the name and a callback function. The value returned is then available as ":type" in this case:

```
```js
morgan.token('type', function(req, res){ return req.headers['content-type']; })
```
```

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## 1.473 mpath 0.1.1

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## 1.474 mpromise 0.5.4

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## 1.475 mpromise 0.2.1

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## 1.477 mquery 0.8.0

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## 1.479 ms 0.7.1

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# 1.480 ms 0.6.2

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```
ms.js: miliseconds conversion utility
```

```
```js
ms('1d') // 86400000
ms('10h') // 36000000
ms('2h') // 7200000
ms('1m') // 60000
ms('5s') // 5000
ms('100') // 100
```
```

```
```js
ms(60000) // "1m"
ms(2 * 60000) // "2m"
ms(ms('10 hours')) // "10h"
```
```

```
```js
ms(60000, { long: true }) // "1 minute"
ms(2 * 60000, { long: true }) // "2 minutes"
ms(ms('10 hours', { long: true })) // "10 hours"
```
```

- Node/Browser compatible. Published as `ms` in NPM.
- If a number is supplied to `ms`, a string with a unit is returned.
- If a string that contains the number is supplied, it returns it as a number (e.g: it returns `100` for `'100'`).
- If you pass a string with a number and a valid unit, the number of equivalent ms is returned.

```
License
```

```
MIT
```

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# 1.482 ms 0.1.0

## 1.482.1 Available under license :

```
ms.js
```

Ever find yourself doing math in your head or writing ``1000 * 60 * 60 ...``?  
Don't want to add obtrusive ``Number`` prototype extensions to your reusable / distributable modules and projects?

``ms`` is a tiny utility that you can leverage when your application needs to accept a number of milliseconds as a parameter.

If a number is supplied to ``ms``, it returns it immediately (e.g:  
If a string that contains the number is supplied, it returns it immediately as a number (e.g: it returns ``100`` for ``'100'``).

However, if you pass a string with a number and a valid unit, the number of equivalent ms is returned.

```
```js
ms('1d')    // 86400000
ms('10h')   // 36000000
ms('2h')    // 7200000
ms('1m')    // 60000
ms('5ms')   // 5000
ms('100')   // '100'
ms(100)     // 100
...
```
```

```
How to use
```

```
Node
```

```
```js  
require('ms')  
```
```

```
Browser
```

```
```html  
<script src="ms.js"></script>  
```
```

```
Credits
```

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## 1.483 multiparty 2.2.0

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## 1.485 muri 0.3.1

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## 1.486 mute-stream 0.0.4

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## 1.487 mv 0.0.5

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```
{
 "name": "mv",
 "version": "0.0.5",
 "description": "fs.rename but works across devices. same as the unix utility 'mv'",
 "main": "index.js",
 "scripts": {
 "test": "mocha"
 },
 "repository": {
 "type": "git",
 "url": "git://github.com/superjoe30/node-mv.git"
 },
 "keywords": [
 "mv",
 "move",
 "rename",
 "device",
 "recursive",
 "folder"
],
 "author": "Andrew Kelley",
 "license": "BSD",
 "engines": {
 "node": ">=0.8.0"
 },
 "devDependencies": {
 "proxyquire": "~0.3.4",
 "mocha": "~1.6.0"
 }
}
```

## 1.488 mz 1.3.0

### 1.488.1 Available under license :

# MZ - Modernize node.js

```
[![NPM version][npm-image]][npm-url]
[![Build status][travis-image]][travis-url]
[![Test coverage][coveralls-image]][coveralls-url]
[![Dependency Status][david-image]][david-url]
[![License][license-image]][license-url]
[![Downloads][downloads-image]][downloads-url]
[![Gittip][gittip-image]][gittip-url]
```

Modernize node.js to current ECMAScript specifications!

node.js will not update their API to ES6+ [for a while](<https://github.com/joyent/node/issues/7549>). This library is a wrapper for various aspects of node.js' API.

## ## Installation and Usage

Set `mz` as a dependency and install it.

```
```bash
npm i mz
```
```

Then prefix the relevant `require()`'s with `mz`:

```
```js
var fs = require('mz/fs')

fs.exists(__filename).then(function (exists) {
  if (exists) // do something
})
```
```

Personally, I use this with generator-based control flow libraries such as [co](<https://github.com/visionmedia/co>) so I don't need to use implementation-specific wrappers like [co-fs](<https://github.com/visionmedia/co-fs>).

```
```js
var co = require('co')
var fs = require('mz/fs')

co(function* () {
  if (yield fs.exists(__filename)) // do something
})()
```
```

## ## Promisification

Many node methods are converted into promises.

Any properties that are deprecated or aren't asynchronous will simply be proxied.

The modules wrapped are:

- `child\_process`
- `crypto`
- `dns`
- `fs`
- `zlib`

```
```js
var exec = require('mz/child_process').exec
```



```
exec('node --version').then(function (stdout) {
  console.log(stdout)
})
````
```

## ## Promise Engine

If you've installed [bluebird][bluebird],  
[bluebird][bluebird] will be used.  
`mz` does not install [bluebird][bluebird] for you.

Otherwise, if you're using a node that has native v8 Promises (v0.11.13+),  
then that will be used.

Otherwise, this library will crash the process and exit,  
so you might as well install [bluebird][bluebird] as a dependency!

## ## FAQ

### ### Can I use this in production?

If you do, you should probably install [bluebird][bluebird] as  
native v8 promises are still pretty raw.

### ### Will this make my app faster?

Nope, probably slower actually.

### ### Can I add more features?

Sure.  
Open an issue.

Currently, the plans are to eventually support:

- ECMAScript7 Streams

[bluebird]: <https://github.com/petkaantonov/bluebird>

[npm-image]: <https://img.shields.io/npm/v/mz.svg?style=flat-square>

[npm-url]: <https://npmjs.org/package/mz>

[github-tag]: <http://img.shields.io/github/tag/normalize/mz.svg?style=flat-square>

[github-url]: <https://github.com/normalize/mz/tags>

[travis-image]: <https://img.shields.io/travis/normalize/mz.svg?style=flat-square>

[travis-url]: <https://travis-ci.org/normalize/mz>

[coveralls-image]: <https://img.shields.io/coveralls/normalize/mz.svg?style=flat-square>

[coveralls-url]: <https://coveralls.io/r/normalize/mz?branch=master>

[david-image]: <http://img.shields.io/david/normalize/mz.svg?style=flat-square>

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[gittip-image]: <https://img.shields.io/gittip/jonathanong.svg?style=flat-square>  
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- Ben Noordhuis <<https://github.com/bnoordhuis>>

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"author": "AJ O'Neal <[coolaj86@gmail.com](mailto:coolaj86@gmail.com)> (<http://coolaj86.info>)",

"url": "[git://github.com/coolaj86/node-navigator.git](https://github.com/coolaj86/node-navigator.git)"



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## 1.509 ngx\_openresty 1.7.2.1 :1.el7.centos

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```
"author": {
```

## 1.514 node-ssh-exec 0.1.0

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```
{
 "name": "node-ssh-exec",
 "version": "0.1.0",
 "description": "A simple ssh2 wrapper to exec shell commands on remotes via ssh using Node.js.",
 "main": "lib/ssh-exec.js",
 "scripts": {
 "test": "mocha --reporter spec --timeout 60s test/"
 },
 "repository": {
 "type": "git",
 "url": "http://github.com/adriano-di-giovanni/node-ssh-exec.git"
 },
 "author": "Adriano Di Giovanni <me@adrianodigiovanni.com> (http://adrianodigiovanni.com/)",
 "license": "MIT",
 "bugs": {
 "url": "https://github.com/adriano-di-giovanni/node-ssh-exec/issues"
 },
 "homepage": "https://github.com/adriano-di-giovanni/node-ssh-exec",
 "keywords": [
 "node",
 "ssh",
 "ssh2",
 "exec",
 "remote"
]
}
```

```
],
"dependencies": {
 "underscore": "^1.6.0",
 "ssh2": "^0.3.2"
}
}
```

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## 1.517 node-uuid 1.4.2

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```
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```

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

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

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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## :1.e17

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Version 2, June 1991

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"author": "Heather Arthur <fayearthur@gmail.com>",
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## 1.614 options 0.0.6

### 1.614.1 Available under license :

```
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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1.615 os-monitor 0.1.5

1.615.1 Available under license :

```
{
  "name": "os-monitor",
  "description": "simple OS monitoring for Node.js",
  "version": "0.1.5",
  "homepage": "https://github.com/lfortin/node-os-monitor",
  "repository": {
    "type": "git",
    "url": "git://github.com/lfortin/node-os-monitor.git"
  },
  "author": {
    "name": "Laurent Fortin",
    "email": "laurent.fortin@gmail.com",
    "url": "http://lfortin.github.com"
  },
  "main": "./os-monitor.js",
  "engines": {
    "node": ">=0.9.6"
  },
  "dependencies": {
    "underscore": "~1.5.0"
  },
  "scripts": {
    "test": "node spec-runner.js"
  },
  "keywords": [
    "monitor",
    "os"
  ],
  "license": "MIT",
  "devDependencies": {},
  "optionalDependencies": {}
}
```

1.616 packet 0.0.6

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1.617 packpath 0.1.0

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1.618 parseurl 1.0.1

1.618.1 Available under license :

```
# parseurl
```

Parse a URL with memoization.

```
## API
```

```
### var pathname = parseurl(req)
```

`pathname` can then be passed to a router or something.

```
## LICENSE
```

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1.619 path 0.4.9

1.619.1 Available under license :

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```
"author": "Joyent (http://www.joyent.com)",  
"url": "git://github.com/coolaj86/nodejs-libs-4-browser.git"
```

1.620 path 0.11.14

1.620.1 Available under license :

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1.621 path-to-regexp 0.1.3

1.621.1 Available under license :

```
# Path-to-RegExp
```

Turn an Express-style path string such as `/user/:name` into a regular expression.`

```
## Usage
```

```
```javascript  
var pathToRegExp = require('path-to-regexp');
```
```

```
### pathToRegExp(path, keys, options)
```

- **path** A string in the express format, an array of such strings, or a regular expression
- **keys** An array to be populated with the keys present in the url. Once the function completes, this will be an array of strings.

- **options**
- **options.sensitive** Defaults to false, set this to true to make routes case sensitive
- **options.strict** Defaults to false, set this to true to make the trailing slash matter.
- **options.end** Defaults to true, set this to false to only match the prefix of the URL.

```

```javascript
var keys = [];
var exp = pathToRegexp('/foo/:bar', keys);
//keys = ['bar']
//exp = /^foo\/(?:[^\w+?])\/?$/i
```

```

Live Demo

You can see a live demo of this library in use at [express-route-tester](http://forbeslindesay.github.com/express-route-tester/).

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1.622 path-to-regexp 0.1.2

1.622.1 Available under license :

Path-to-RegExp

Turn an Express-style path string such as ``/user/:name`` into a regular expression.

Usage

```

```javascript
var pathToRegexp = require('path-to-regexp');
```

```

```

#### pathToRegexp(path, keys, options)

```

- **path** A string in the express format, an array of such strings, or a regular expression
- **keys** An array to be populated with the keys present in the url. Once the function completes, this will be an array of strings.
- **options**
 - **options.sensitive** Defaults to false, set this to true to make routes case sensitive
 - **options.strict** Defaults to false, set this to true to make the trailing slash matter.
 - **options.end** Defaults to true, set this to false to only match the prefix of the URL.

```

```javascript
var keys = [];
var exp = pathToRegexp('/foo/:bar', keys);
```

```

```
//keys = ['bar']
//exp = /^foo(?:([^\s]+?))\?$/i
...
```

Live Demo

You can see a live demo of this library in use at [express-route-tester](http://forbeslindesay.github.com/express-route-tester/).

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1.623 pause 0.0.1

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1.624 piranha 0.8.6 :4.e17.centos.2

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under certain conditions; type `show c' for details.
```

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```
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```

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

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1.625 pkginfo 0.3.0

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1.626 pkginfo 0.2.3

1.626.1 Available under license :

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

1.627 policyfile 0.0.4

1.627.1 Available under license :

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1.628 portchecker 0.1.2

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```
"author": "danielzzz <daniel@zelisko.net> (http://daniel.zelisko.net)",  
"url": "git://github.com/danielzzz/node-portchecker.git"
```

1.629 posix 2.0.0

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1.630 priorityqueuejs 0.2.0

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```
{
  "name": "priorityqueuejs",
  "version": "0.2.0",
  "description": "a simple priority queue data structure",
  "author": "Jano González <info@janogonzalez.com>",
  "devDependencies": {
    "mocha": "*",
    "expect.js": "*"
  },
  "readmeFilename": "README.md",
  "main": "index.js",
  "dependencies": {
  },
  "scripts": {
    "test": "mocha"
  },
  "repository": {
    "type": "git",
    "url": "git://github.com/janogonzalez/priorityqueuejs.git"
  },
  "keywords": [
    "heap",
    "priority",
    "queue",
    "priority queue",
    "data structure"
  ],
  "license": "MIT"
}
```

1.631 process 0.6.0

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1.633 promise 2.0.0

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```
[![Build Status](https://travis-ci.org/then/promise.png)](https://travis-ci.org/then/promise)
<a href="http://promises-aplus.github.com/promises-spec"></a>
# promise
```

This a bare bones [Promises/A+](http://promises-aplus.github.com/promises-spec/) implementation.

It is designed to get the basics spot on correct, so that you can build extended promise implementations on top of it.

Installation

Server:

```
$ npm install promise
```

Client:

```
$ component install then/promise
```

API

In the example below shows how you can load the promise library (in a way that works on both client and server). It then demonstrates creating a promise from scratch. You simply call `new Promise(fn)`. There is a complete specification for what is returned by this method in [Promises/A+](<http://promises-aplus.github.com/promises-spec/>).

```
```javascript
var Promise = require('promise');

var promise = new Promise(function (resolve, reject) {
 get('http://www.google.com', function (err, res) {
 if (err) reject(err);
 else resolve(res);
 });
});
```
```

Extending Promises

There are three options for extending the promises created by this library.

Inheritance

You can use inheritance if you want to create your own complete promise library with this as your basic starting point, perfect if you have lots of cool features you want to add. Here is an example of a promise library called `Awesome`, which is built on top of `Promise` correctly.

```
```javascript
var Promise = require('promise');
function Awesome(fn) {
 if (!(this instanceof Awesome)) return new Awesome(fn);
 Promise.call(this, fn);
}
Awesome.prototype = Object.create(Promise.prototype);
Awesome.prototype.constructor = Awesome;
```

```
//Awesome extension
Awesome.prototype.spread = function (cb) {
 return this.then(function (arr) {
 return cb.apply(this, arr);
 })
};
```

```

N.B. if you fail to set the prototype and constructor properly or fail to do Promise.call, things can fail in really subtle ways.

Wrap

This is the nuclear option, for when you want to start from scratch. It ensures you won't be impacted by anyone who is extending the prototype (see below).

```
```javascript
function Uber(fn) {
 if (!(this instanceof Uber)) return new Uber(fn);
 var _prom = new Promise(fn);
 this.then = _prom.then;
}
```

```

```
Uber.prototype.spread = function (cb) {
  return this.then(function (arr) {
    return cb.apply(this, arr);
  })
};
```

```

### ### Extending the Prototype

In general, you should never extend the prototype of this promise implementation because your extensions could easily conflict with someone else's extensions. However, this organisation will host a library of extensions which do not conflict with each other, so you can safely enable any of those. If you think of an extension that we don't provide and you want to write it, submit an issue on this repository and (if I agree) I'll set you up with a repository and give you permission to commit to it.

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## 1.638 punycode 1.3.2

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## 1.639 puppet 3.7.4 :1.e17

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```
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a replacement for YAML.dump unimaginatively called ZAML.dump,
which is faster on all known cases and an order of magnitude faster
with complex structures.
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## 1.643 python-jsonpointer 1.0 :2.e17

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# 1.644 python-lxml\_GPLv2 3.2.1 :4.e17

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```

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```
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```



<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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# 1.645 python-xml\_PSFv2.x 3.2.1 :4.e17

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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 (see <http://www.digicool.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. Digital Creations 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 from	Derived from	Year	Owner	GPL-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	no
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
2.2.1	2.2	2002	PSF	yes

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# 1.648 python-pip\_CA-Root-Certificates 1.3.1 :4.e17

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

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## 1.649 python-prettytable 0.7.2 :1.e17

### 1.649.1 Available under license :

```
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```

## 1.650 python-pygments\_GPLv3 1.4 :9.e17

## 1.650.1 Available under license :

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V# New ports collection makefile for: python25\u000a  
p364  
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p367  
tp368  
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tp369  
a(g24  
V# Whom: Hye-Shik Chang <perky@FreeBSD.org>\u000a  
p370  
tp371  
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tp372  
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V#\u000a  
p373  
tp374  
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tp375  
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p573  
tp574  
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p577  
tp578  
a(g138  
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tp579  
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V.1  
p580  
tp581  
a(g6  
V\u000a\u000a

p582  
tp583  
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VUSE\_PYTHON  
p584  
tp585  
a(g353  
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tp586  
a(g6  
V  
tp587  
a(g6  
Vyes  
p588  
tp589  
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tp594  
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Vpython2.5  
p595  
tp596  
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V\u000a  
tp597  
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VPYTHON\_NO\_DEPENDS  
p598  
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a(g6  
Vyes

p602  
tp603  
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V\u000a\u000a  
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tp605  
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VSHARED\_WRKSRC  
p606  
tp607  
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tp608  
a(g6  
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tp609  
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V\${  
p610  
tp611  
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p612  
tp613  
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tp614  
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V/portbld.shared  
p615  
tp616  
a(g6  
V\u000a  
tp617  
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VPLIST  
p618  
tp619  
a(g353  
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a(g6  
V  
p621  
tp622  
a(g138  
V\${  
p623

tp624  
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VWRKDIR  
p625  
tp626  
a(g138  
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V/PLIST  
p628  
tp629  
a(g6  
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tp630  
a(g6  
VPLIST\_TEMPLATE?  
p631  
tp632  
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V=  
tp633  
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V\${  
p634  
tp635  
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p636  
tp637  
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tp641  
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VPLIST\_SUB  
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V  
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VPYVER  
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tp653  
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VS  
tp654  
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a(g138  
V}  
tp657  
a(g6  
V  
tp658  
a(g262  
V\u005c\u000a  
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tp660  
a(g6  
V  
p661  
tp662  
a(g100  
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p666  
tp667  
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VPORTVERSION  
p668  
tp669  
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V:  
tp670  
a(g100  
VS  
tp671  
a(g212  
V/.c/c/  
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tp673  
a(g138  
V}  
tp674  
a(g6  
V\u000a  
tp675  
a(g100  
VDEMODIR  
p676  
tp677  
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tp678  
a(g6  
V  
tp679  
a(g138  
V\${  
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tp681  
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VPREFIX  
p682  
tp683  
a(g138  
V}  
tp684  
a(g6  
V/share/examples/  
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tp686  
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p687  
tp688  
a(g100  
VPYTHON\_VERSION  
p689  
tp690  
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V\u000a  
tp692  
a(g100  
VTOOLS DIR  
p693  
tp694  
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tp695  
a(g6  
V  
tp696  
a(g138  
V\${  
p697  
tp698  
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VPREFIX  
p699  
tp700  
a(g138  
V}  
tp701  
a(g6  
V/share/  
p702  
tp703  
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p704  
tp705  
a(g100  
VPYTHON\_VERSION  
p706  
tp707

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tp708  
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p709  
tp710  
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p711  
tp712  
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a(g6  
V  
tp714  
a(g6  
Vidle  
p715  
tp716  
a(g6  
V  
tp717  
a(g6  
Vpydoc  
p718  
tp719  
a(g6  
V  
tp720  
a(g6  
Vpython  
p721  
tp722  
a(g6  
V  
tp723  
a(g6  
Vpython-shared  
p724  
tp725  
a(g6  
V  
tp726  
a(g6  
Vsmtpd.py  
p727



tp728  
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V  
tp729  
a(g6  
Vpython-config  
p730  
tp731  
a(g6  
V  
tp732  
a(g262  
V\u005c\u000a  
p733  
tp734  
a(g6  
V  
p735  
tp736  
a(g6  
Vpython-shared-config  
p737  
tp738  
a(g6  
V\u000a  
tp739  
a(g100  
VBINLINKS\_SUB  
p740  
tp741  
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V=  
tp742  
a(g6  
V  
tp743  
a(g6  
V-e  
p744  
tp745  
a(g6  
V  
tp746  
a(g281  
V's,smtpd,smtpd\${PYTHON\_VER},'  
p747  
tp748  
a(g6

V  
tp749  
a(g262  
V\u005c\u000a  
p750  
tp751  
a(g6  
V  
p752  
tp753  
a(g6  
V-e  
p754  
tp755  
a(g6  
V  
tp756  
a(g281  
V's,(idle|pydoc|python-shared|python),\u005c1\${PYTHON\_VER},'<br>  
p757  
tp758  
a(g6  
V\u000a\u000a  
p759  
tp760  
a(g100  
VOPTIONS  
p761  
tp762  
a(g353  
V=  
tp763  
a(g6  
V  
tp764  
a(g6  
VTHREADS  
p765  
tp766  
a(g6  
V  
tp767  
a(g255  
V"Enable thread support"  
p768  
tp769  
a(g6  
V

tp770  
a(g6  
Von  
p771  
tp772  
a(g6  
V  
tp773  
a(g262  
V\u005c\u000a  
p774  
tp775  
a(g6  
V  
p776  
tp777  
a(g6  
VHUGE\_STACK\_SIZE  
p778  
tp779  
a(g6  
V  
tp780  
a(g255  
V"Use a larger thread stack"  
p781  
tp782  
a(g6  
V  
tp783  
a(g6  
Voff  
p784  
tp785  
a(g6  
V  
tp786  
a(g262  
V\u005c\u000a  
p787  
tp788  
a(g6  
V  
p789  
tp790  
a(g6  
VUCS4  
p791

tp792  
a(g6  
V  
tp793  
a(g255  
V"Use UCS4 for unicode support"  
p794  
tp795  
a(g6  
V  
tp796  
a(g6  
Von  
p797  
tp798  
a(g6  
V  
tp799  
a(g262  
V\u005c\u000a  
p800  
tp801  
a(g6  
V  
p802  
tp803  
a(g6  
VPYALLOC  
p804  
tp805  
a(g6  
V  
tp806  
a(g255  
V"Use python's internal malloc"  
p807  
tp808  
a(g6  
V  
tp809  
a(g6  
Von  
p810  
tp811  
a(g6  
V  
tp812  
a(g262

V\u005c\u000a  
p813  
tp814  
a(g6  
V  
p815  
tp816  
a(g6  
VIPV6  
p817  
tp818  
a(g6  
V  
tp819  
a(g255  
V"Enable IPv6 support"  
p820  
tp821  
a(g6  
V  
tp822  
a(g6  
Von  
p823  
tp824  
a(g6  
V  
tp825  
a(g262  
V\u005c\u000a  
p826  
tp827  
a(g6  
V  
p828  
tp829  
a(g6  
VFPECTL  
p830  
tp831  
a(g6  
V  
tp832  
a(g255  
V"Enable floating point exception handling"  
p833  
tp834  
a(g6

V  
tp835  
a(g6  
Voff  
p836  
tp837  
a(g6  
V\u000a\u000a  
p838  
tp839  
a(g27  
V.include <bsd.port.pre.mk>\u000a  
p840  
tp841  
a(g6  
V\u000a  
tp842  
a(g27  
V.if \${PYTHON\_VERSION} == \${PYTHON\_DEFAULT\_VERSION}\u000a  
p843  
tp844  
a(g6  
V  
tp845  
a(g100  
VMLINKS  
p846  
tp847  
a(g353  
V=  
tp848  
a(g6  
V  
p849  
tp850  
a(g138  
V\${  
p851  
tp852  
a(g100  
VPYTHON\_VERSION  
p853  
tp854  
a(g138  
V}  
tp855  
a(g6  
V.1

p856  
tp857  
a(g6  
V  
tp858  
a(g6  
Vpython.1  
p859  
tp860  
a(g6  
V\u000a  
tp861  
a(g6  
VPLIST\_SUB+  
p862  
tp863  
a(g353  
V=  
tp864  
a(g6  
V  
tp865  
a(g100  
VIF\_DEFAULT  
p866  
tp867  
a(g353  
V=  
tp868  
a(g255  
V""  
p869  
tp870  
a(g6  
V\u000a  
tp871  
a(g27  
V.else\u000a  
p872  
tp873  
a(g6  
V  
tp874  
a(g6  
VPLIST\_SUB+  
p875  
tp876  
a(g353

V=  
tp877  
a(g6  
V  
tp878  
a(g100  
VIF\_DEFAULT  
p879  
tp880  
a(g353  
V=  
tp881  
a(g255  
V"@comment "  
p882  
tp883  
a(g6  
V\u000a  
tp884  
a(g27  
V.endif\u000a  
p885  
tp886  
a(g6  
V\u000a  
tp887  
a(g24  
V# workaround for a bug in base curses.h.\u000a  
p888  
tp889  
a(g6  
V  
tp890  
a(g6  
VCFLAGS+  
p891  
tp892  
a(g353  
V=  
tp893  
a(g6  
V  
tp894  
a(g6  
V-D\_\_wchar\_t  
p895  
tp896  
a(g353



V=  
tp897  
a(g6  
Vwchar\_t  
p898  
tp899  
a(g6  
V\u000a\u000a  
p900  
tp901  
a(g27  
V.if !defined(WITHOUT\_THREADS)\u000a  
p902  
tp903  
a(g6  
V  
tp904  
a(g6  
VCONFIGURE\_ARGS+  
p905  
tp906  
a(g353  
V=  
tp907  
a(g6  
V  
tp908  
a(g6  
V--with-threads  
p909  
tp910  
a(g6  
V\u000a  
tp911  
a(g6  
VCFLAGS+  
p912  
tp913  
a(g353  
V=  
tp914  
a(g6  
V  
p915  
tp916  
a(g138  
V\${  
p917

tp918  
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VPTHREAD\_CFLAGS  
p919  
tp920  
a(g138  
V}  
tp921  
a(g6  
V\u000a  
tp922  
a(g27  
V.if defined(WITHOUT\_HUGE\_STACK\_SIZE)\u000a  
p923  
tp924  
a(g6  
V  
tp925  
a(g6  
VCFLAGS+  
p926  
tp927  
a(g353  
V=  
tp928  
a(g6  
V  
p929  
tp930  
a(g6  
V-DTHREAD\_STACK\_SIZE  
p931  
tp932  
a(g353  
V=  
tp933  
a(g6  
V0x20000  
p934  
tp935  
a(g6  
V\u000a  
tp936  
a(g27  
V.else\u000a  
p937  
tp938  
a(g6

V  
tp939  
a(g6  
VCFLAGS+  
p940  
tp941  
a(g353  
V=  
tp942  
a(g6  
V  
p943  
tp944  
a(g6  
V-DTHREAD\_STACK\_SIZE  
p945  
tp946  
a(g353  
V=  
tp947  
a(g6  
V0x100000  
p948  
tp949  
a(g6  
V\u000a  
tp950  
a(g27  
V.endif # defined(WITHOUT\_HUGE\_STACK\_SIZE)\u000a  
p951  
tp952  
a(g6  
V  
tp953  
a(g6  
VCONFIGURE\_ENV+  
p954  
tp955  
a(g353  
V=  
tp956  
a(g6  
V  
p957  
tp958  
a(g100  
VLDFLAGS  
p959

tp960  
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V=  
tp961  
a(g255  
V"\${PTHREAD\_LIBS} \${LDFLAGS}"  
p962  
tp963  
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V\u000a  
tp964  
a(g27  
V.else\u000a  
p965  
tp966  
a(g6  
V  
tp967  
a(g6  
VCONFIGURE\_ARGS+  
p968  
tp969  
a(g353  
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a(g6  
V  
tp971  
a(g6  
V--without-threads  
p972  
tp973  
a(g6  
V\u000a  
tp974  
a(g27  
V.if defined(LDFLAGS)\u000a  
p975  
tp976  
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V  
tp977  
a(g6  
VCONFIGURE\_ENV+  
p978  
tp979  
a(g353  
V=

tp980  
a(g6  
V  
p981  
tp982  
a(g100  
VLDFLAGS  
p983  
tp984  
a(g353  
V=  
tp985  
a(g255  
V"\${LDFLAGS}"  
p986  
tp987  
a(g6  
V\u000a  
tp988  
a(g27  
V.endif # defined(LDFLAGS)\u000a  
p989  
tp990  
a(g6  
V  
tp991  
a(g27  
V.endif # !defined(WITHOUT\_THREADS)\u000a  
p992  
tp993  
a(g6  
V\u000a  
tp994  
a(g27  
V.if !defined(WITHOUT\_UCS4) && !defined(WITH\_UCS2)\u000a  
p995  
tp996  
a(g6  
V  
tp997  
a(g6  
VCONFIGURE\_ARGS+  
p998  
tp999  
a(g353  
V=  
tp1000  
a(g6

V  
tp1001  
a(g6  
V--enable-unicode  
p1002  
tp1003  
a(g353  
V=  
tp1004  
a(g6  
Vucs4  
p1005  
tp1006  
a(g6  
V\u000a  
tp1007  
a(g27  
V.endif\u000a  
p1008  
tp1009  
a(g6  
V\u000a  
tp1010  
a(g27  
V.if defined(WITHOUT\_PYMALLOC)\u000a  
p1011  
tp1012  
a(g6  
V  
tp1013  
a(g6  
VCONFIGURE\_ARGS+  
p1014  
tp1015  
a(g353  
V=  
tp1016  
a(g6  
V  
p1017  
tp1018  
a(g6  
V--without-pymalloc  
p1019  
tp1020  
a(g6  
V\u000a  
tp1021

a(g27  
V.endif\u000a  
p1022  
tp1023  
a(g6  
V\u000a  
tp1024  
a(g27  
V.if \${ARCH} == i386\u000a  
p1025  
tp1026  
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V  
tp1027  
a(g6  
VPLIST\_SUB+  
p1028  
tp1029  
a(g353  
V=  
tp1030  
a(g6  
V  
tp1031  
a(g100  
VX86\_ONLY  
p1032  
tp1033  
a(g353  
V=  
tp1034  
a(g255  
V""  
p1035  
tp1036  
a(g6  
V\u000a  
tp1037  
a(g27  
V.else\u000a  
p1038  
tp1039  
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V  
tp1040  
a(g6  
VPLIST\_SUB+  
p1041

tp1042  
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V=  
tp1043  
a(g6  
V  
tp1044  
a(g100  
VX86\_ONLY  
p1045  
tp1046  
a(g353  
V=  
tp1047  
a(g255  
V"@comment "  
p1048  
tp1049  
a(g6  
V\u000a  
tp1050  
a(g27  
V.endif\u000a  
p1051  
tp1052  
a(g6  
V  
tp1053  
a(g27  
V.if \${ARCH} == amd64 || \${ARCH} == ia64 || \${ARCH} == sparc64 || \${ARCH} == alpha\u000a  
p1054  
tp1055  
a(g6  
V  
tp1056  
a(g6  
VPLIST\_SUB+  
p1057  
tp1058  
a(g353  
V=  
tp1059  
a(g6  
V  
p1060  
tp1061  
a(g100  
V32BIT\_ONLY



p1062  
tp1063  
a(g353  
V=  
tp1064  
a(g255  
V"@comment "  
p1065  
tp1066  
a(g6  
V\u000a  
tp1067  
a(g27  
V.else\u000a  
p1068  
tp1069  
a(g6  
V  
tp1070  
a(g6  
VPLIST\_SUB+  
p1071  
tp1072  
a(g353  
V=  
tp1073  
a(g6  
V  
p1074  
tp1075  
a(g100  
V32BIT\_ONLY  
p1076  
tp1077  
a(g353  
V=  
tp1078  
a(g255  
V""  
p1079  
tp1080  
a(g6  
V\u000a  
tp1081  
a(g27  
V.endif\u000a  
p1082  
tp1083

```
a(g6
V
tp1084
a(g27
V.if ${ARCH} == sparc64\u000a
p1085
tp1086
a(g6
V
tp1087
a(g6
VCFLAGS+
p1088
tp1089
a(g353
V=
tp1090
a(g6
V
p1091
tp1092
a(g6
V-DPYTHON_DEFAULT_RECURSION_LIMIT
p1093
tp1094
a(g353
V=
tp1095
a(g6
V900
p1096
tp1097
a(g6
V\u000a
tp1098
a(g27
V.endif\u000a
p1099
tp1100
a(g6
V\u000a
tp1101
a(g27
V.if !exists(/usr/bin/ypcat) # the world with NO_NIS\u000a
p1102
tp1103
a(g6
V
```

tp1104  
a(g6  
VPLIST\_SUB+  
p1105  
tp1106  
a(g353  
V=  
tp1107  
a(g6  
V  
tp1108  
a(g100  
VNO\_NIS  
p1109  
tp1110  
a(g353  
V=  
tp1111  
a(g255  
V"@comment "  
p1112  
tp1113  
a(g6  
V\u000a  
tp1114  
a(g27  
V.else\u000a  
p1115  
tp1116  
a(g6  
V  
tp1117  
a(g6  
VPLIST\_SUB+  
p1118  
tp1119  
a(g353  
V=  
tp1120  
a(g6  
V  
tp1121  
a(g100  
VNO\_NIS  
p1122  
tp1123  
a(g353  
V=

tp1124  
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V""  
p1125  
tp1126  
a(g6  
V\u000a  
tp1127  
a(g27  
V.endif\u000a  
p1128  
tp1129  
a(g6  
V\u000a  
tp1130  
a(g27  
V.if !defined(WITHOUT\_IPV6)\u000a  
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tp1133  
a(g6  
VCONFIGURE\_ARGS+  
p1134  
tp1135  
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tp1136  
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V  
tp1137  
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V--enable-ipv6  
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tp1139  
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tp1140  
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V.else\u000a  
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tp1142  
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tp1143  
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VCONFIGURE\_ARGS+

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tp1147  
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V--disable-ipv6  
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tp1149  
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tp1150  
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V.endif\u000a  
p1151  
tp1152  
a(g6  
V\u000a  
tp1153  
a(g27  
V.if defined(WITH\_FPECTL)\u000a  
p1154  
tp1155  
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tp1156  
a(g6  
VCONFIGURE\_ARGS+  
p1157  
tp1158  
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tp1159  
a(g6  
V  
tp1160  
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V--with-fpectl  
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tp1162  
a(g6  
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tp1163  
a(g27  
V.endif\u000a

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tp1165  
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V\u000a  
tp1166  
a(g27  
V.if \${OSVERSION} >= 700000\u000a  
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V  
tp1169  
a(g100  
VPLATFORMS  
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tp1171  
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a(g6  
Vplat-freebsd4  
p1173  
tp1174  
a(g6  
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tp1175  
a(g6  
Vplat-freebsd5  
p1176  
tp1177  
a(g6  
V  
tp1178  
a(g6  
Vplat-freebsd6  
p1179  
tp1180  
a(g6  
V\u000a  
tp1181  
a(g27  
V.elif \${OSVERSION} >= 600000\u000a  
p1182  
tp1183  
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a(g100

VPLATFORMS

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Vplat-freebsd4

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tp1189

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tp1190

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Vplat-freebsd5

p1191

tp1192

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tp1193

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Vplat-freebsd7

p1194

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V\u000a

tp1196

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V.else\u000a

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tp1199

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VPLATFORMS

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tp1205

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V\u000a  
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Vpre-patch:  
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p1225  
tp1226  
a(g100



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tp1243  
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V}  
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tp1247  
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V

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p1256  
tp1257  
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VPATCH\_WRKSRC  
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tp1309  
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VSED

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tp1333

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V\u000a  
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V  
tp1350  
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V-e  
p1351  
tp1352  
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V  
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V\u0005c\u000a

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V  
p1356  
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V's,/usr/doc/python-docs-,\${PREFIX}/share/doc/python,g'  
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tp1362  
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V  
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VPATCH\_WRKSRC  
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V/Lib/pydoc.py  
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tp1377

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V}  
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V  
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V-e  
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tp1384  
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V  
p1385  
tp1386  
a(g281  
V's|^)\u005c( \*prefixes = .\*\u005c)\u005c]\$\$\u005c1, "{\$X11BASE}"]g'  
p1387  
tp1388  
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V  
tp1389  
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V\${  
p1394  
tp1395  
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VPATCH\_WRKSRC  
p1396  
tp1397  
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V}  
tp1398  
a(g6



V/Lib/site.py  
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V\u000a  
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tp1402  
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VREINPLACE\_CMD  
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V}  
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V  
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a(g6  
V-e  
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tp1410  
a(g6  
V  
tp1411  
a(g262  
V\u005c\u000a  
p1412  
tp1413  
a(g6  
V  
p1414  
tp1415  
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V's|^ \u005c(..ASDLGEN.\*\u005c)\$ \$| \${TRUE}}|g'  
p1416  
tp1417  
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V  
tp1418  
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tp1420  
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V  
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V\${  
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tp1424  
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VPATCH\_WRKSRC  
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V}  
tp1427  
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V/Makefile.pre.in  
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tp1429  
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p1430  
tp1431  
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V\${  
p1432  
tp1433  
a(g100  
VREINPLACE\_CMD  
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V}  
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V-e  
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p1443  
tp1444  
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V's|\*\u005c(..INSTALL\_SCRIPT.\*\u005c)python-config\$\$|#port \u005c1'  
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VPATCH\_WRKSRC  
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V/Makefile.pre.in  
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V\u000a\u000a  
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tp1460  
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tp1462  
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VSED  
p1463  
tp1464  
a(g138  
V}  
tp1465

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V  
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V-e  
p1467  
tp1468  
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V  
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V's|^#!.\*|#!\${PREFIX}/bin/\${PYTHON\_VERSION}!'  
p1470  
tp1471  
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V  
tp1472  
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V\u005c\u000a  
p1473  
tp1474  
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p1475  
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a(g138  
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tp1478  
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VPATCH\_WRKSRC  
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V/Misc/python-config.in  
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V  
tp1484  
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V>  
tp1485  
a(g6  
V

tp1486  
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V/  
tp1492  
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V\${  
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tp1494  
a(g100  
VPYTHON\_VERSION  
p1495  
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V}  
tp1497  
a(g6  
V-config  
p1498  
tp1499  
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V\u000a  
p1500  
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tp1503  
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VSED  
p1504  
tp1505  
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V}  
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V  
tp1507

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tp1509  
a(g6  
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tp1510  
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V's|^#!.\*|#!\${PREFIX}/bin/\${PYTHON\_VERSION:S/thon/thon-shared/}'  
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tp1513  
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V\u005c\u000a  
p1514  
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V\${  
p1518  
tp1519  
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VPATCH\_WRKSRC  
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V  
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V>  
tp1526  
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V  
tp1527  
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V\${  
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VS  
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V/thon/thon-shared/  
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a(g6  
V-config  
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tp1544  
a(g6  
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tp1546  
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V.if defined(WITH\_FPECTL) && \${ARCH} == i386\u000a  
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tp1549

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tp1564  
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VECHO  
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tp1569  
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V  
tp1570  
a(g255



V"fpectl fpectlmodule.c"

p1571

tp1572

a(g6

V

tp1573

a(g6

V>>

p1574

tp1575

a(g6

V

tp1576

a(g138

V\${

p1577

tp1578

a(g100

VWRKSRC

p1579

tp1580

a(g138

V}

tp1581

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V/Modules/Setup.dist

p1582

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V\u000a

tp1584

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V.endif\u000a

p1585

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V\u000a

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Vpost-configure:

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V  
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V-  
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V's,^\u005c(LDLIBRARY=\u005c).\*\$\$,\u005c1libpython\$(VERSION).so,'  
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V-e  
p1679  
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a(g6  
V  
tp1681  
a(g281  
V's,^\u005c(BLDLIBRARY=\u005c).\*\$\$,\u005c1-L. -lpython\$(VERSION),'  
p1682  
tp1683  
a(g6  
V  
tp1684  
a(g262  
V\u005c\u000a  
p1685  
tp1686  
a(g6  
V  
p1687  
tp1688  
a(g6  
V-e  
p1689  
tp1690  
a(g6  
V  
tp1691  
a(g281  
V's,^\u005c(CFLAGSFORSHARED=\u005c).\*\$\$,\u005c1\$(CCSHARED),'  
p1692  
tp1693  
a(g6  
V  
tp1694  
a(g262  
V\u005c\u000a  
p1695

tp1696  
a(g6  
V  
p1697  
tp1698  
a(g6  
V-e  
p1699  
tp1700  
a(g6  
V  
tp1701  
a(g281  
V's,^\u005c(Makefile Modules/config.c:.\*\u005c)Makefile.pre,\u005c1,'  
p1702  
tp1703  
a(g6  
V  
tp1704  
a(g262  
V\u005c\u000a  
p1705  
tp1706  
a(g6  
V  
p1707  
tp1708  
a(g6  
V-e  
p1709  
tp1710  
a(g6  
V  
tp1711  
a(g281  
V's,^\u005c(.(BUILDPYTHON)\u005c:.\*\u005c).(LIBRARY),\u005c1,'  
p1712  
tp1713  
a(g6  
V  
tp1714  
a(g262  
V\u005c\u000a  
p1715  
tp1716  
a(g6  
V  
p1717

tp1718  
a(g6  
V-e  
p1719  
tp1720  
a(g6  
V  
tp1721  
a(g281  
V's,^\u005c(.BUILDPYTHON):.\*\u005c).(LIBRARY),\u005c1,'  
p1722  
tp1723  
a(g6  
V  
tp1724  
a(g262  
V\u005c\u000a  
p1725  
tp1726  
a(g6  
V  
p1727  
tp1728  
a(g138  
V\${  
p1729  
tp1730  
a(g100  
VWRKSRC  
p1731  
tp1732  
a(g138  
V}  
tp1733  
a(g6  
V/Makefile  
p1734  
tp1735  
a(g6  
V  
tp1736  
a(g6  
V>  
tp1737  
a(g6  
V  
tp1738  
a(g138



V\${  
p1739  
tp1740  
a(g100  
VSHARED\_WRKSRC  
p1741  
tp1742  
a(g138  
V}  
tp1743  
a(g6  
V/Makefile  
p1744  
tp1745  
a(g6  
V\u000a\u000a  
p1746  
tp1747  
a(g6  
Vpre-build:  
p1748  
tp1749  
a(g6  
V\u000a  
p1750  
tp1751  
a(g84  
Vcd  
p1752  
tp1753  
a(g6  
V  
tp1754  
a(g138  
V\${  
p1755  
tp1756  
a(g100  
VSHARED\_WRKSRC  
p1757  
tp1758  
a(g138  
V}  
tp1759  
a(g6  
V;  
tp1760  
a(g6

V  
tp1761  
a(g262  
V\u005c\u000a  
p1762  
tp1763  
a(g6  
V  
tp1764  
a(g138  
V\${  
p1765  
tp1766  
a(g100  
VSETENV  
p1767  
tp1768  
a(g138  
V}  
tp1769  
a(g6  
V  
tp1770  
a(g138  
V\${  
p1771  
tp1772  
a(g100  
VMAKE\_ENV  
p1773  
tp1774  
a(g138  
V}  
tp1775  
a(g6  
V  
tp1776  
a(g138  
V\${  
p1777  
tp1778  
a(g100  
VMAKE  
p1779  
tp1780  
a(g138  
V}  
tp1781

a(g6  
V  
tp1782  
a(g6  
Vlib  
p1783  
tp1784  
a(g138  
V\${  
p1785  
tp1786  
a(g100  
VPYTHON\_VERSION  
p1787  
tp1788  
a(g138  
V}  
tp1789  
a(g6  
V.so  
p1790  
tp1791  
a(g6  
V  
tp1792  
a(g6  
Vpython;  
p1793  
tp1794  
a(g6  
V  
tp1795  
a(g262  
V\u005c\u000a  
p1796  
tp1797  
a(g6  
V  
tp1798  
a(g138  
V\${  
p1799  
tp1800  
a(g100  
VLN  
p1801  
tp1802  
a(g138

V}  
tp1803  
a(g6  
V  
tp1804  
a(g6  
V-f  
p1805  
tp1806  
a(g6  
V  
tp1807  
a(g6  
Vlib  
p1808  
tp1809  
a(g138  
V\${  
p1810  
tp1811  
a(g100  
VPYTHON\_VERSION  
p1812  
tp1813  
a(g138  
V}  
tp1814  
a(g6  
V.so  
p1815  
tp1816  
a(g6  
V  
tp1817  
a(g6  
Vlib  
p1818  
tp1819  
a(g138  
V\${  
p1820  
tp1821  
a(g100  
VPYTHON\_VERSION  
p1822  
tp1823  
a(g138  
V}

tp1824  
a(g6  
V.so.1;  
p1825  
tp1826  
a(g6  
V  
tp1827  
a(g262  
V\u005c\u000a  
p1828  
tp1829  
a(g6  
V  
tp1830  
a(g138  
V\${  
p1831  
tp1832  
a(g100  
VLN  
p1833  
tp1834  
a(g138  
V}  
tp1835  
a(g6  
V  
tp1836  
a(g6  
V-f  
p1837  
tp1838  
a(g6  
V  
tp1839  
a(g6  
Vpython  
p1840  
tp1841  
a(g6  
V  
tp1842  
a(g138  
V\${  
p1843  
tp1844  
a(g100

VPYTHON\_VERSION  
p1845  
tp1846  
a(g212  
V:  
tp1847  
a(g100  
VS  
tp1848  
a(g212  
V/thon/thon-shared/  
p1849  
tp1850  
a(g138  
V}  
tp1851  
a(g6  
V\u000a\u000a  
p1852  
tp1853  
a(g6  
Vpre-su-install:  
p1854  
tp1855  
a(g6  
V\u000a  
tp1856  
a(g27  
V.for platform in \${PLATFORMS}\u000a  
p1857  
tp1858  
a(g6  
V  
tp1859  
a(g138  
V\${  
p1860  
tp1861  
a(g100  
VMKDIR  
p1862  
tp1863  
a(g138  
V}  
tp1864  
a(g6  
V  
tp1865

a(g138  
V\${  
p1866  
tp1867  
a(g100  
VPYTHONPREFIX\_LIBDIR  
p1868  
tp1869  
a(g138  
V}  
tp1870  
a(g6  
V/  
tp1871  
a(g138  
V\${  
p1872  
tp1873  
a(g100  
Vplatform  
p1874  
tp1875  
a(g138  
V}  
tp1876  
a(g6  
V\u000a  
tp1877  
a(g27  
V.for file in IN.py regen\u000a  
p1878  
tp1879  
a(g6  
V  
tp1880  
a(g138  
V\${  
p1881  
tp1882  
a(g100  
VINSTALL\_DATA  
p1883  
tp1884  
a(g138  
V}  
tp1885  
a(g6  
V

tp1886  
a(g138  
V\${  
p1887  
tp1888  
a(g100  
VWRKSRC  
p1889  
tp1890  
a(g138  
V}  
tp1891  
a(g6  
V/Lib/  
p1892  
tp1893  
a(g138  
V\${  
p1894  
tp1895  
a(g100  
Vplatform  
p1896  
tp1897  
a(g138  
V}  
tp1898  
a(g6  
V/  
tp1899  
a(g138  
V\${  
p1900  
tp1901  
a(g100  
Vfile  
p1902  
tp1903  
a(g138  
V}  
tp1904  
a(g6  
V  
tp1905  
a(g262  
V\u005c\u000a  
p1906  
tp1907



a(g6  
V  
p1908  
tp1909  
a(g138  
V\${  
p1910  
tp1911  
a(g100  
VPYTHONPREFIX\_LIBDIR  
p1912  
tp1913  
a(g138  
V}  
tp1914  
a(g6  
V/  
tp1915  
a(g138  
V\${  
p1916  
tp1917  
a(g100  
Vplatform  
p1918  
tp1919  
a(g138  
V}  
tp1920  
a(g6  
V/  
tp1921  
a(g6  
V\u000a  
tp1922  
a(g27  
V.endfor\u000a  
p1923  
tp1924  
a(g6  
V  
tp1925  
a(g27  
V.endfor\u000a  
p1926  
tp1927  
a(g6  
V\u000a

tp1928  
a(g6  
Vpre-install:  
p1929  
tp1930  
a(g6  
V\u000a  
p1931  
tp1932  
a(g138  
V\${  
p1933  
tp1934  
a(g100  
VCAT  
p1935  
tp1936  
a(g138  
V}  
tp1937  
a(g6  
V  
tp1938  
a(g138  
V\${  
p1939  
tp1940  
a(g100  
VPLIST\_TEMPLATE  
p1941  
tp1942  
a(g138  
V}  
tp1943  
a(g6  
V  
tp1944  
a(g6  
V|  
tp1945  
a(g6  
V  
tp1946  
a(g138  
V\${  
p1947  
tp1948  
a(g100

VAWK  
p1949  
tp1950  
a(g138  
V}  
tp1951  
a(g6  
V  
tp1952  
a(g281  
V'{ print \$\$0; } \u005c\u000a /LIBDIR.\*\u005c.py\$\$/ && !\u005c/bad/ { print \$\$0 "o"; print \$\$0 "c"; }'  
p1953  
tp1954  
a(g6  
V  
tp1955  
a(g6  
V>  
tp1956  
a(g6  
V  
tp1957  
a(g138  
V\${  
p1958  
tp1959  
a(g100  
VPLIST  
p1960  
tp1961  
a(g138  
V}  
tp1962  
a(g6  
V\u000a\u000a  
p1963  
tp1964  
a(g24  
V @# if openssl 0.9.8 is detected, \_sha{256,512} module won't be installed\u000a  
p1965  
tp1966  
a(g6  
V  
tp1967  
a(g353  
V(  
tp1968  
a(g353

V[  
tp1969  
a(g6  
V  
tp1970  
a(g6  
V-f  
p1971  
tp1972  
a(g6  
V  
tp1973  
a(g138  
V\${  
p1974  
tp1975  
a(g100  
VWRKSRC  
p1976  
tp1977  
a(g138  
V}  
tp1978  
a(g6  
V/.without\_own\_sha  
p1979  
tp1980  
a(g6  
V  
tp1981  
a(g353  
V]  
tp1982  
a(g6  
V  
tp1983  
a(g353  
V&&  
p1984  
tp1985  
a(g6  
V  
tp1986  
a(g262  
V\u005c\u000a  
p1987  
tp1988  
a(g6

V  
p1989  
tp1990  
a(g138  
V\${  
p1991  
tp1992  
a(g100  
VGREP  
p1993  
tp1994  
a(g138  
V}  
tp1995  
a(g6  
V  
tp1996  
a(g6  
V-v  
p1997  
tp1998  
a(g6  
V  
tp1999  
a(g281  
V'lib-dynload/\_sha'  
p2000  
tp2001  
a(g6  
V  
tp2002  
a(g138  
V\${  
p2003  
tp2004  
a(g100  
VPLIST  
p2005  
tp2006  
a(g138  
V}  
tp2007  
a(g6  
V  
tp2008  
a(g6  
V>  
tp2009

a(g6  
V  
tp2010  
a(g138  
V\${  
p2011  
tp2012  
a(g100  
VPLIST  
p2013  
tp2014  
a(g138  
V}  
tp2015  
a(g6  
V.tmp  
p2016  
tp2017  
a(g6  
V  
tp2018  
a(g353  
V&&  
p2019  
tp2020  
a(g6  
V  
tp2021  
a(g262  
V\u005c\u000a  
p2022  
tp2023  
a(g6  
V  
p2024  
tp2025  
a(g138  
V\${  
p2026  
tp2027  
a(g100  
VCAT  
p2028  
tp2029  
a(g138  
V}  
tp2030  
a(g6

V  
tp2031  
a(g138  
V\${  
p2032  
tp2033  
a(g100  
VPLIST  
p2034  
tp2035  
a(g138  
V}  
tp2036  
a(g6  
V.tmp  
p2037  
tp2038  
a(g6  
V  
tp2039  
a(g6  
V>  
tp2040  
a(g6  
V  
tp2041  
a(g138  
V\${  
p2042  
tp2043  
a(g100  
VPLIST  
p2044  
tp2045  
a(g138  
V}  
tp2046  
a(g353  
V)  
tp2047  
a(g6  
V  
tp2048  
a(g353  
V||  
p2049  
tp2050  
a(g6

V  
tp2051  
a(g138  
V\${  
p2052  
tp2053  
a(g100  
VTRUE  
p2054  
tp2055  
a(g138  
V}  
tp2056  
a(g6  
V\u000a\u000a  
p2057  
tp2058  
a(g6  
Vpost-install:  
p2059  
tp2060  
a(g6  
V\u000a  
tp2061  
a(g24  
V @# install config providers\u000a  
p2062  
tp2063  
a(g6  
V  
tp2064  
a(g138  
V\${  
p2065  
tp2066  
a(g100  
VINSTALL\_SCRIPT  
p2067  
tp2068  
a(g138  
V}  
tp2069  
a(g6  
V  
tp2070  
a(g138  
V\${  
p2071



tp2072  
a(g100  
VWRKDIR  
p2073  
tp2074  
a(g138  
V}  
tp2075  
a(g6  
V/  
tp2076  
a(g138  
V\${  
p2077  
tp2078  
a(g100  
VPYTHON\_VERSION  
p2079  
tp2080  
a(g138  
V}  
tp2081  
a(g6  
V-config  
p2082  
tp2083  
a(g6  
V  
tp2084  
a(g138  
V\${  
p2085  
tp2086  
a(g100  
VPREFIX  
p2087  
tp2088  
a(g138  
V}  
tp2089  
a(g6  
V/bin  
p2090  
tp2091  
a(g6  
V\u000a  
p2092  
tp2093

a(g138  
V\${  
p2094  
tp2095  
a(g100  
VINSTALL\_SCRIPT  
p2096  
tp2097  
a(g138  
V}  
tp2098  
a(g6  
V  
tp2099  
a(g138  
V\${  
p2100  
tp2101  
a(g100  
VWRKDIR  
p2102  
tp2103  
a(g138  
V}  
tp2104  
a(g6  
V/  
tp2105  
a(g138  
V\${  
p2106  
tp2107  
a(g100  
VPYTHON\_VERSION  
p2108  
tp2109  
a(g212  
V:  
tp2110  
a(g100  
VS  
tp2111  
a(g212  
V/thon/thon-shared/  
p2112  
tp2113  
a(g138  
V}

tp2114  
a(g6  
V-config  
p2115  
tp2116  
a(g6  
V  
tp2117  
a(g138  
V\${  
p2118  
tp2119  
a(g100  
VPREFIX  
p2120  
tp2121  
a(g138  
V}  
tp2122  
a(g6  
V/bin  
p2123  
tp2124  
a(g6  
V\u000a\u000a  
p2125  
tp2126  
a(g24  
V @# shared version of executable and library\u000a  
p2127  
tp2128  
a(g6  
V  
tp2129  
a(g138  
V\${  
p2130  
tp2131  
a(g100  
VINSTALL\_PROGRAM  
p2132  
tp2133  
a(g138  
V}  
tp2134  
a(g6  
V  
tp2135

a(g138  
V\${  
p2136  
tp2137  
a(g100  
VSHARED\_WRKSRC  
p2138  
tp2139  
a(g138  
V}  
tp2140  
a(g6  
V/lib  
p2141  
tp2142  
a(g138  
V\${  
p2143  
tp2144  
a(g100  
VPYTHON\_VERSION  
p2145  
tp2146  
a(g138  
V}  
tp2147  
a(g6  
V.so.1  
p2148  
tp2149  
a(g6  
V  
tp2150  
a(g262  
V\u005c\u000a  
p2151  
tp2152  
a(g6  
V  
p2153  
tp2154  
a(g138  
V\${  
p2155  
tp2156  
a(g100  
VPREFIX  
p2157

tp2158  
a(g138  
V}  
tp2159  
a(g6  
V/lib  
p2160  
tp2161  
a(g6  
V\u000a  
p2162  
tp2163  
a(g84  
Vcd  
p2164  
tp2165  
a(g6  
V  
tp2166  
a(g138  
V\${  
p2167  
tp2168  
a(g100  
VPREFIX  
p2169  
tp2170  
a(g138  
V}  
tp2171  
a(g6  
V/lib;  
p2172  
tp2173  
a(g6  
V  
tp2174  
a(g138  
V\${  
p2175  
tp2176  
a(g100  
VLN  
p2177  
tp2178  
a(g138  
V}  
tp2179

a(g6  
V  
tp2180  
a(g6  
V-sf  
p2181  
tp2182  
a(g6  
V  
tp2183  
a(g6  
Vlib  
p2184  
tp2185  
a(g138  
V\${  
p2186  
tp2187  
a(g100  
VPYTHON\_VERSION  
p2188  
tp2189  
a(g138  
V}  
tp2190  
a(g6  
V.so.1  
p2191  
tp2192  
a(g6  
V  
tp2193  
a(g262  
V\u005c\u000a  
p2194  
tp2195  
a(g6  
V  
p2196  
tp2197  
a(g6  
Vlib  
p2198  
tp2199  
a(g138  
V\${  
p2200  
tp2201

a(g100  
VPYTHON\_VERSION  
p2202  
tp2203  
a(g138  
V}  
tp2204  
a(g6  
V.so  
p2205  
tp2206  
a(g6  
V\u000a  
p2207  
tp2208  
a(g138  
V\${  
p2209  
tp2210  
a(g100  
VLN  
p2211  
tp2212  
a(g138  
V}  
tp2213  
a(g6  
V  
tp2214  
a(g6  
V-sf  
p2215  
tp2216  
a(g6  
V  
tp2217  
a(g138  
V\${  
p2218  
tp2219  
a(g100  
VPREFIX  
p2220  
tp2221  
a(g138  
V}  
tp2222  
a(g6

V/lib/lib  
p2223  
tp2224  
a(g138  
V\${  
p2225  
tp2226  
a(g100  
VPYTHON\_VERSION  
p2227  
tp2228  
a(g138  
V}  
tp2229  
a(g6  
V.so  
p2230  
tp2231  
a(g6  
V  
tp2232  
a(g138  
V\${  
p2233  
tp2234  
a(g100  
VPYTHONPREFIX\_LIBDIR  
p2235  
tp2236  
a(g138  
V}  
tp2237  
a(g6  
V/config  
p2238  
tp2239  
a(g6  
V\u000a  
p2240  
tp2241  
a(g138  
V\${  
p2242  
tp2243  
a(g100  
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tp2245



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a(g24  
V @# additional files installing by ports\u000a  
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tp2282  
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V.if \${PYTHON\_VERSION} == \${PYTHON\_DEFAULT\_VERSION}\u000a  
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a(g138  
Vfor  
p2380  
tp2381  
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Vf  
tp2382  
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Vin  
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tp2392  
a(g6  
V  
tp2393  
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V}  
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V\$\$  
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Vf;  
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tp2469  
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tp2470  
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tp2561  
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tp2575  
a(g138  
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p2576  
tp2577  
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VTAR  
p2578  
tp2579  
a(g138  
V}



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V-xf  
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tp2615  
a(g353  
V)  
tp2616  
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V\u000a  
tp2617  
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V.endif\u000a

p2618  
tp2619  
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tp2622  
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VCAT  
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V}  
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tp2635  
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V.include <bsd.port.post.mk>\u000a  
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tp2637  
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tp2638  
a.

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## 1.651 python-requests\_LGPLv2.1 1.1.0 :8.e17

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Version 2.1, February 1999

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

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# 1.652 python\_GPLv3 2.7.5 :16.e17

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schema/trex.py

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test/domapi/ (and test/test\_pyxmldom.py)

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## 1.661 qs 0.5.1

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# node-querystring

query string parser for node and the browser supporting nesting, as it was removed from `0.3.x`, so this library provides the previous and commonly desired behaviour (and twice as fast). Used by [express](http://expressjs.com), [connect](http://senchalabs.github.com/connect) and others.

## Installation

```
$ npm install qs
```

## Examples

```
```js
```

```
var qs = require('qs');
```

```
qs.parse('user[name][first]=Tobi&user[email]=tobi@learnboost.com');
```

```
// => { user: { name: { first: 'Tobi' }, email: 'tobi@learnboost.com' } }
```

```
qs.stringify({ user: { name: 'Tobi', email: 'tobi@learnboost.com' } })
```

```
// => user[name]=Tobi&user[email]=tobi%40learnboost.com
```

```
```
```

## Testing

Install dev dependencies:

```
$ npm install -d
```

and execute:

```
$ make test
```

browser:

```
$ open test/browser/index.html
```

```
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```

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## 1.662 qs 0.6.5

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```
node-querystring
```

query string parser for node and the browser supporting nesting, as it was removed from `0.3.x`, so this library provides the previous and commonly desired behaviour (and twice as fast). Used by [express](http://expressjs.com), [connect](http://senchalabs.github.com/connect) and others.

```
Installation
```

```
$ npm install qs
```

## ## Examples

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

qs.parse('user[name][first]=Tobi&user[email]=tobi@learnboost.com');
// => { user: { name: { first: 'Tobi' }, email: 'tobi@learnboost.com' } }

qs.stringify({ user: { name: 'Tobi', email: 'tobi@learnboost.com' } })
// => user[name]=Tobi&user[email]=tobi%40learnboost.com
```
```

## ## Testing

Install dev dependencies:

```
$ npm install -d
```

and execute:

```
$ make test
```

browser:

```
$ open test/browser/index.html
```

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## 1.665 range-parser 0.0.4

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## 1.666 range-parser 1.0.0

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```
node-range-parser
```

```
Range header field parser.
```

```
Example:
```

```
```js
assert(-1 == parse(200, 'bytes=500-20'));
```

```
assert(-2 == parse(200, 'bytes=malformed'));
parse(200, 'bytes=0-499').should.eql(arr('bytes', [{ start: 0, end: 199 }]));
parse(1000, 'bytes=0-499').should.eql(arr('bytes', [{ start: 0, end: 499 }]));
parse(1000, 'bytes=40-80').should.eql(arr('bytes', [{ start: 40, end: 80 }]));
parse(1000, 'bytes=-500').should.eql(arr('bytes', [{ start: 500, end: 999 }]));
parse(1000, 'bytes=-400').should.eql(arr('bytes', [{ start: 600, end: 999 }]));
parse(1000, 'bytes=500-').should.eql(arr('bytes', [{ start: 500, end: 999 }]));
parse(1000, 'bytes=400-').should.eql(arr('bytes', [{ start: 400, end: 999 }]));
parse(1000, 'bytes=0-0').should.eql(arr('bytes', [{ start: 0, end: 0 }]));
parse(1000, 'bytes=-1').should.eql(arr('bytes', [{ start: 999, end: 999 }]));
parse(1000, 'items=0-5').should.eql(arr('items', [{ start: 0, end: 5 }]));
parse(1000, 'bytes=40-80,-1').should.eql(arr('bytes', [{ start: 40, end: 80 }, { start: 999, end: 999 }]));
...

```

Installation

...

```
$ npm install range-parser
```

...

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1.667 range-parser 1.0.2

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1.668 raw-body 1.3.0

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raw-body

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

[![Build Status](https://travis-ci.org/stream-utils/raw-body.svg?branch=master)](https://travis-ci.org/stream-utils/raw-body)

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Gets the entire buffer of a stream either as a `Buffer` or a string.

Validates the stream's length against an expected length and maximum limit.

Ideal for parsing request bodies.

API

```
```js
```

```
var getRawBody = require('raw-body')
```

```
var typer = require('media-typer')
```

```

app.use(function (req, res, next) {
 getRawBody(req, {
 length: req.headers['content-length'],
 limit: '1mb',
 encoding: typer.parse(req.headers['content-type']).parameters.charset
 }, function (err, string) {
 if (err)
 return next(err)

 req.text = string
 next()
 })
})
...

```

or in a Koa generator:

```

```js
app.use(function* (next) {
  var string = yield getRawBody(this.req, {
    length: this.length,
    limit: '1mb',
    encoding: this.charset
  })
})
...

```

```

### getRawBody(stream, [options], [callback])

```

Returns a thunk for yielding with generators.

Options:

- `length` - The length length of the stream.
If the contents of the stream do not add up to this length, an `400` error code is returned.
- `limit` - The byte limit of the body.
If the body ends up being larger than this limit, a `413` error code is returned.
- `encoding` - The requested encoding.
By default, a `Buffer` instance will be returned.
Most likely, you want `utf8`.
You can use any type of encoding supported by `[iconv-lite]`(<https://www.npmjs.org/package/iconv-lite#readme>).

You can also pass a string in place of options to just specify the encoding.

```

`callback(err, res)`:

```

- ``err`` - the following attributes will be defined if applicable:
 - ``limit`` - the limit in bytes
 - ``length`` and ``expected`` - the expected length of the stream
 - ``received`` - the received bytes
 - ``encoding`` - the invalid encoding
 - ``status`` and ``statusCode`` - the corresponding status code for the error
 - ``type`` - either ``entity.too.large``, ``request.size.invalid``, ``stream.encoding.set``, or ``encoding.unsupported``

- ``res`` - the result, either as a ``String`` if an encoding was set or a ``Buffer`` otherwise.

If an error occurs, the stream will be paused, everything uniped, and you are responsible for correctly disposing the stream.

For HTTP requests, no handling is required if you send a response.

For streams that use file descriptors, you should ``stream.destroy()`` or ``stream.close()`` to prevent leaks.

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1.669 raw-body 1.3.2

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1.670 raw-body 1.1.3

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Raw Body [![Build Status](https://travis-ci.org/stream-utils/raw-body.png)](https://travis-ci.org/stream-utils/raw-body)

Gets the entire buffer of a stream either as a `Buffer` or a string.
Validates the stream's length against an expected length and maximum limit.
Ideal for parsing request bodies.

```
## API

```js
var getRawBody = require('raw-body')

app.use(function (req, res, next) {
 getRawBody(req, {
 length: req.headers['content-length'],
 limit: '1mb',
 encoding: 'utf8'
 }, function (err, string) {
 if (err)
 return next(err)

 req.text = string
 next()
 })
})
```

...

or in a Koa generator:

```
```js
app.use(function* (next) {
  var string = yield getRawBody(this.req, {
    length: this.length,
    limit: '1mb',
    encoding: 'utf8'
  })
})
```
```

```
getRawBody(stream, [options], [callback])
```

Returns a thunk for yielding with generators.

Options:

- `length` - The length of the stream.

If the contents of the stream do not add up to this length,  
an `400` error code is returned.

- `limit` - The byte limit of the body.

If the body ends up being larger than this limit,  
a `413` error code is returned.

- `encoding` - The requested encoding.

By default, a `Buffer` instance will be returned.

Most likely, you want `utf8`.

You can use any type of encoding supported by `StringDecoder` ([http://nodejs.org/api/string\\_decoder.html](http://nodejs.org/api/string_decoder.html)).

You can also pass `true` which sets it to the default `utf8`

`callback(err, res)`:

- `err` - the following attributes will be defined if applicable:

- `limit` - the limit in bytes

- `length` and `expected` - the expected length of the stream

- `received` - the received bytes

- `status` and `statusCode` - the corresponding status code for the error

- `type` - either `entity.too.large`, `request.size.invalid`, or `stream.encoding.set`

- `res` - the result, either as a `String` if an encoding was set or a `Buffer` otherwise.

If an error occurs, the stream will be paused,

and you are responsible for correctly disposing the stream.

For HTTP requests, no handling is required if you send a response.

For streams that use file descriptors, you should `stream.destroy()` or `stream.close()` to prevent leaks.

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## 1.680 redis 0.9.1

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redis - a node.js redis client

=====

This is a complete Redis client for node.js. It supports all Redis commands, including many recently added commands like EVAL from experimental Redis server branches.

Install with:

```
npm install redis
```

Pieter Noordhuis has provided a binding to the official `hiredis` C library, which is non-blocking and fast. To use `hiredis`, do:

```
npm install hiredis redis
```

If `hiredis` is installed, `node\_redis` will use it by default. Otherwise, a pure JavaScript parser will be used.

If you use `hiredis`, be sure to rebuild it whenever you upgrade your version of node. There are mysterious failures that can

happen between node and native code modules after a node upgrade.

## ## Usage

Simple example, included as `examples/simple.js`:

```
```js
var redis = require("redis"),
    client = redis.createClient();

// if you'd like to select database 3, instead of 0 (default), call
// client.select(3, function() { /* ... */ });

client.on("error", function (err) {
  console.log("Error " + err);
});

client.set("string key", "string val", redis.print);
client.hset("hash key", "hashtest 1", "some value", redis.print);
client.hset(["hash key", "hashtest 2", "some other value"], redis.print);
client.hkeys("hash key", function (err, replies) {
  console.log(replies.length + " replies:");
  replies.forEach(function (reply, i) {
    console.log("  " + i + ": " + reply);
  });
  client.quit();
});
```
```

This will display:

```
mjr:~/work/node_redis (master)$ node example.js
Reply: OK
Reply: 0
Reply: 0
2 replies:
 0: hashtest 1
 1: hashtest 2
mjr:~/work/node_redis (master)$
```

## ## Performance

Here are typical results of `multi\_bench.js` which is similar to `redis-benchmark` from the Redis distribution. It uses 50 concurrent connections with no pipelining.

JavaScript parser:

```
PING: 20000 ops 42283.30 ops/sec 0/5/1.182
SET: 20000 ops 32948.93 ops/sec 1/7/1.515
GET: 20000 ops 28694.40 ops/sec 0/9/1.740
INCR: 20000 ops 39370.08 ops/sec 0/8/1.269
LPUSH: 20000 ops 36429.87 ops/sec 0/8/1.370
LRANGE (10 elements): 20000 ops 9891.20 ops/sec 1/9/5.048
LRANGE (100 elements): 20000 ops 1384.56 ops/sec 10/91/36.072
```

hiredis parser:

```
PING: 20000 ops 46189.38 ops/sec 1/4/1.082
SET: 20000 ops 41237.11 ops/sec 0/6/1.210
GET: 20000 ops 39682.54 ops/sec 1/7/1.257
INCR: 20000 ops 40080.16 ops/sec 0/8/1.242
LPUSH: 20000 ops 41152.26 ops/sec 0/3/1.212
LRANGE (10 elements): 20000 ops 36563.07 ops/sec 1/8/1.363
LRANGE (100 elements): 20000 ops 21834.06 ops/sec 0/9/2.287
```

The performance of `node_redis` improves dramatically with pipelining, which happens automatically in most normal programs.

### ### Sending Commands

Each Redis command is exposed as a function on the `client` object. All functions take either an `args` Array plus optional `callback` Function or a variable number of individual arguments followed by an optional callback. Here is an example of passing an array of arguments and a callback:

```
client.mset(["test keys 1", "test val 1", "test keys 2", "test val 2"], function (err, res) {});
```

Here is that same call in the second style:

```
client.mset("test keys 1", "test val 1", "test keys 2", "test val 2", function (err, res) {});
```

Note that in either form the `callback` is optional:

```
client.set("some key", "some val");
client.set(["some other key", "some val"]);
```

If the key is missing, reply will be null (probably):

```
client.get("missingkey", function(err, reply) {
 // reply is null when the key is missing
 console.log(reply);
});
```

For a list of Redis commands, see [Redis Command Reference](<http://redis.io/commands>)

The commands can be specified in uppercase or lowercase for convenience. `client.get()` is the same as `client.GET()`.

Minimal parsing is done on the replies. Commands that return a single line reply return JavaScript Strings, integer replies return JavaScript Numbers, "bulk" replies return node Buffers, and "multi bulk" replies return a JavaScript Array of node Buffers. `HGETALL` returns an Object with Buffers keyed by the hash keys.

# API

## Connection Events

`client` will emit some events about the state of the connection to the Redis server.

### "ready"

`client` will emit `ready` a connection is established to the Redis server and the server reports that it is ready to receive commands. Commands issued before the `ready` event are queued, then replayed just before this event is emitted.

### "connect"

`client` will emit `connect` at the same time as it emits `ready` unless `client.options.no_ready_check` is set. If this options is set, `connect` will be emitted when the stream is connected, and then you are free to try to send commands.

### "error"

`client` will emit `error` when encountering an error connecting to the Redis server.

Note that "error" is a special event type in node. If there are no listeners for an "error" event, node will exit. This is usually what you want, but it can lead to some cryptic error messages like this:

```
mjr:~/work/node_redis (master)$ node example.js
```

```
node.js:50
```

```
 throw e;
```

```
 ^
```

```
Error: ECONNREFUSED, Connection refused
```

```
 at IOWatcher.callback (net:870:22)
```

```
 at node.js:607:9
```

Not very useful in diagnosing the problem, but if your program isn't ready to handle this, it is probably the right thing to just exit.

`client` will also emit `error` if an exception is thrown inside of `node_redis` for whatever reason.

It would be nice to distinguish these two cases.

```
"end"
```

``client`` will emit ``end`` when an established Redis server connection has closed.

```
"drain"
```

``client`` will emit ``drain`` when the TCP connection to the Redis server has been buffering, but is now writable. This event can be used to stream commands in to Redis and adapt to backpressure. Right now, you need to check ``client.command_queue.length`` to decide when to reduce your send rate. Then you can resume sending when you get ``drain``.

```
"idle"
```

``client`` will emit ``idle`` when there are no outstanding commands that are awaiting a response.

```
redis.createClient(port, host, options)
```

Create a new client connection. ``port`` defaults to ``6379`` and ``host`` defaults to ``127.0.0.1``. If you have ``redis-server`` running on the same computer as node, then the defaults for port and host are probably fine. ``options`` in an object with the following possible properties:

- \* ``parser``: which Redis protocol reply parser to use. Defaults to ``hiredis`` if that module is installed.

This may also be set to ``javascript``.

- \* ``return_buffers``: defaults to ``false``. If set to ``true``, then all replies will be sent to callbacks as node Buffer objects instead of JavaScript Strings.

- \* ``detect_buffers``: default to ``false``. If set to ``true``, then replies will be sent to callbacks as node Buffer objects if any of the input arguments to the original command were Buffer objects.

This option lets you switch between Buffers and Strings on a per-command basis, whereas ``return_buffers`` applies to

every command on a client.

- \* ``socket_nodelay``: defaults to ``true``. Whether to call `setNoDelay()` on the TCP stream, which disables the Nagle algorithm on the underlying socket. Setting this option to ``false`` can result in additional throughput at the cost of more latency. Most applications will want this set to ``true``.

- \* ``no_ready_check``: defaults to ``false``. When a connection is established to the Redis server, the server might still be loading the database from disk. While loading, the server not respond to any commands. To work around this, ``node_redis`` has a "ready check" which sends the ``INFO`` command to the server. The response from the ``INFO`` command

indicates whether the server is ready for more commands. When ready, ``node_redis`` emits a ``ready`` event.

Setting ``no_ready_check`` to ``true`` will inhibit this check.

- \* ``enable_offline_queue``: defaults to ``true``. By default, if there is no active connection to the redis server, commands are added to a queue and are executed once the connection has been established. Setting ``enable_offline_queue`` to ``false`` will disable this feature and the callback will be execute immediately with an error, or an error will be thrown if no callback is specified.

- \* ``retry_max_delay``: defaults to ``null``. By default every time the client tries to connect and fails time before reconnection (delay) almost doubles. This delay normally grows infinitely, but setting ``retry_max_delay`` limits delay

to maximum value, provided in milliseconds.

\* `connect_timeout` defaults to `false`. By default client will try reconnecting until connected. Setting

`connect_timeout`

limits total time for client to reconnect. Value is provided in milliseconds and is counted once the disconnect occurred.

\* `max_attempts` defaults to `null`. By default client will try reconnecting until connected. Setting `max_attempts` limits total amount of reconnects.

\* `auth_pass` defaults to `null`. By default client will try connecting without auth. If set, client will run redis auth command on connect.

```
```js
var redis = require("redis"),
    client = redis.createClient(null, null, {detect_buffers: true});

client.set("foo_rand000000000000", "OK");

// This will return a JavaScript String
client.get("foo_rand000000000000", function (err, reply) {
  console.log(reply.toString()); // Will print `OK`
});

// This will return a Buffer since original key is specified as a Buffer
client.get(new Buffer("foo_rand000000000000"), function (err, reply) {
  console.log(reply.toString()); // Will print ``
});
client.end();
```
```

`createClient()` returns a `RedisClient` object that is named `client` in all of the examples here.

### ### Unix Domain Socket

You can also create a connection to Redis server via the unix domain socket if the server has it enabled:

```
```js
var redis = require("redis");
var client = redis.createClient("/tmp/redis.sock");
```
```

Sample `redis.conf` configuration to enable unix domain socket listening:

```
```conf
unixsocket /tmp/redis.sock
unixsocketperm 755
```
```

See [issue #204](https://github.com/mranney/node\_redis/issues/204) for more information.



```
client.auth(password, callback)
```

When connecting to Redis servers that require authentication, the ``AUTH`` command must be sent as the first command after connecting. This can be tricky to coordinate with reconnections, the ready check, etc. To make this easier, ``client.auth()`` stashes ``password`` and will send it after each connection, including reconnections. ``callback`` is invoked only once, after the response to the very first ``AUTH`` command sent.

NOTE: Your call to ``client.auth()`` should not be inside the ready handler. If you are doing this wrong, ``client`` will emit an error that looks something like this ``Error: Ready check failed: ERR operation not permitted``.

```
client.end()
```

Forcibly close the connection to the Redis server. Note that this does not wait until all replies have been parsed. If you want to exit cleanly, call ``client.quit()`` to send the ``QUIT`` command after you have handled all replies.

This example closes the connection to the Redis server before the replies have been read. You probably don't want to do this:

```
```js
var redis = require("redis"),
    client = redis.createClient();

client.set("foo_rand000000000000", "some fantastic value");
client.get("foo_rand000000000000", function (err, reply) {
  console.log(reply.toString());
});
client.end();
```
```

``client.end()`` is useful for timeout cases where something is stuck or taking too long and you want to start over.

```
client.unref()
```

Call ``unref()`` on the underlying socket connection to the Redis server, allowing the program to exit once no more commands are pending.

This is an **experimental** feature, and only supports a subset of the Redis protocol. Any commands where client state is saved on the Redis server, e.g. ``*SUBSCRIBE`` or the blocking ``BL*`` commands will **NOT** work with ``unref()``.

```
```js
var redis = require("redis")
var client = redis.createClient()

/*
```

Calling `unref()` will allow this program to exit immediately after the `get` command finishes. Otherwise the client would hang as long as the client-server connection is alive.

```
*/
client.unref()
client.get("foo", function (err, value){
  if (err) throw(err)
  console.log(value)
})
...

```

```
## Friendlier hash commands
```

Most Redis commands take a single `String` or an `Array of Strings` as arguments, and replies are sent back as a single `String` or an `Array of Strings`.

When dealing with hash values, there are a couple of useful exceptions to this.

```
### client.hgetall(hash)
```

The reply from an `HGETALL` command will be converted into a JavaScript Object by `node_redis``. That way you can interact with the responses using JavaScript syntax.

Example:

```
client.hmset("hosts", "mjr", "1", "another", "23", "home", "1234");
client.hgetall("hosts", function (err, obj) {
  console.dir(obj);
});

```

Output:

```
{ mjr: '1', another: '23', home: '1234' }
```

```
### client.hmset(hash, obj, [callback])
```

Multiple values in a hash can be set by supplying an object:

```
client.HMSET(key2, {
  "0123456789": "abcdefghij", // NOTE: key and value will be coerced to strings
  "some manner of key": "a type of value"
});

```

The properties and values of this Object will be set as keys and values in the Redis hash.

```
### client.hmset(hash, key1, val1, ... keyn, valn, [callback])
```

Multiple values may also be set by supplying a list:

```
client.HMSET(key1, "0123456789", "abcdefghij", "some manner of key", "a type of value");
```

Publish / Subscribe

Here is a simple example of the API for publish / subscribe. This program opens two client connections, subscribes to a channel on one of them, and publishes to that channel on the other:

```
```js
var redis = require("redis"),
 client1 = redis.createClient(), client2 = redis.createClient(),
 msg_count = 0;

client1.on("subscribe", function (channel, count) {
 client2.publish("a nice channel", "I am sending a message.");
 client2.publish("a nice channel", "I am sending a second message.");
 client2.publish("a nice channel", "I am sending my last message.");
});

client1.on("message", function (channel, message) {
 console.log("client1 channel " + channel + ": " + message);
 msg_count += 1;
 if (msg_count === 3) {
 client1.unsubscribe();
 client1.end();
 client2.end();
 }
});

client1.incr("did a thing");
client1.subscribe("a nice channel");
```
```

When a client issues a `SUBSCRIBE` or `PSUBSCRIBE`, that connection is put into a "subscriber" mode. At that point, only commands that modify the subscription set are valid. When the subscription set is empty, the connection is put back into regular mode.

If you need to send regular commands to Redis while in subscriber mode, just open another connection.

Subscriber Events

If a client has subscriptions active, it may emit these events:

```
### "message" (channel, message)
```

Client will emit `message` for every message received that matches an active subscription.

Listeners are passed the channel name as `channel` and the message Buffer as `message`.

```
### "pmessage" (pattern, channel, message)
```

Client will emit `pmessage` for every message received that matches an active subscription pattern. Listeners are passed the original pattern used with `PSUBSCRIBE` as `pattern`, the sending channel name as `channel`, and the message Buffer as `message`.

```
### "subscribe" (channel, count)
```

Client will emit `subscribe` in response to a `SUBSCRIBE` command. Listeners are passed the channel name as `channel` and the new count of subscriptions for this client as `count`.

```
### "psubscribe" (pattern, count)
```

Client will emit `psubscribe` in response to a `PSUBSCRIBE` command. Listeners are passed the original pattern as `pattern`, and the new count of subscriptions for this client as `count`.

```
### "unsubscribe" (channel, count)
```

Client will emit `unsubscribe` in response to a `UNSUBSCRIBE` command. Listeners are passed the channel name as `channel` and the new count of subscriptions for this client as `count`. When `count` is 0, this client has left subscriber mode and no more subscriber events will be emitted.

```
### "punsubscribe" (pattern, count)
```

Client will emit `punsubscribe` in response to a `PUNSUBSCRIBE` command. Listeners are passed the channel name as `channel` and the new count of subscriptions for this client as `count`. When `count` is 0, this client has left subscriber mode and no more subscriber events will be emitted.

```
## client.multi([commands])
```

`MULTI` commands are queued up until an `EXEC` is issued, and then all commands are run atomically by Redis. The interface in `node_redis` is to return an individual `Multi` object by calling `client.multi()`.

```
```js
var redis = require("./index"),
 client = redis.createClient(), set_size = 20;

client.sadd("bigset", "a member");
client.sadd("bigset", "another member");

while (set_size > 0) {
 client.sadd("bigset", "member " + set_size);
 set_size -= 1;
}

// multi chain with an individual callback
client.multi()
```

```

.scard("bigset")
.smembers("bigset")
.keys("*", function (err, replies) {
 // NOTE: code in this callback is NOT atomic
 // this only happens after the the .exec call finishes.
 client.mget(replies, redis.print);
})
.dbsize()
.exec(function (err, replies) {
 console.log("MULTI got " + replies.length + " replies");
 replies.forEach(function (reply, index) {
 console.log("Reply " + index + ": " + reply.toString());
 });
});
...

```

```

Multi.exec(callback)

```

`client.multi()` is a constructor that returns a `Multi` object. `Multi` objects share all of the same command methods as `client` objects do. Commands are queued up inside the `Multi` object until `Multi.exec()` is invoked.

The `callback` of `.exec()` will get invoked with two arguments:

- \* `err` **type:** `null | Array` `err` is either null or an array of Error Objects corresponding the the sequence the commands where chained. The last item of the array will always be an `EXECABORT` type of error originating from the `.exec()` itself.
- \* `results` **type:** `null | Array` `results` is an array of responses corresponding the the sequence the commands where chained.

You can either chain together `MULTI` commands as in the above example, or you can queue individual commands while still sending regular client command as in this example:

```

```js
var redis = require("redis"),
    client = redis.createClient(), multi;

// start a separate multi command queue
multi = client.multi();
multi.incr("incr thing", redis.print);
multi.incr("incr other thing", redis.print);

// runs immediately
client.mset("incr thing", 100, "incr other thing", 1, redis.print);

// drains multi queue and runs atomically
multi.exec(function (err, replies) {
  console.log(replies); // 101, 2

```

```

});

// you can re-run the same transaction if you like
multi.exec(function (err, replies) {
  console.log(replies); // 102, 3
  client.quit();
});
```

```

In addition to adding commands to the `MULTI` queue individually, you can also pass an array of commands and arguments to the constructor:

```

```js
var redis = require("redis"),
    client = redis.createClient(), multi;

client.multi([
  ["mget", "multifoo", "multibar", redis.print],
  ["incr", "multifoo"],
  ["incr", "multibar"]
]).exec(function (err, replies) {
  console.log(replies);
});
```

```

### ## Monitor mode

Redis supports the `MONITOR` command, which lets you see all commands received by the Redis server across all client connections, including from other client libraries and other computers.

After you send the `MONITOR` command, no other commands are valid on that connection. `node_redis` will emit a `monitor` event for every new monitor message that comes across. The callback for the `monitor` event takes a timestamp from the Redis server and an array of command arguments.

Here is a simple example:

```

```js
var client = require("redis").createClient(),
    util = require("util");

client.monitor(function (err, res) {
  console.log("Entering monitoring mode.");
});

client.on("monitor", function (time, args) {
  console.log(time + ": " + util.inspect(args));
});
```

```

```
...
```

```
Extras
```

Some other things you might like to know about.

```
client.server_info
```

After the ready probe completes, the results from the INFO command are saved in the `client.server_info` object.`

The `versions` key contains an array of the elements of the version string for easy comparison.`

```
> client.server_info.redis_version
'2.3.0'
> client.server_info.versions
[2, 3, 0]
```

```
redis.print()
```

A handy callback function for displaying return values when testing. Example:

```
```js
var redis = require("redis"),
    client = redis.createClient();

client.on("connect", function () {
  client.set("foo_rand000000000000", "some fantastic value", redis.print);
  client.get("foo_rand000000000000", redis.print);
});
```
```

This will print:

```
Reply: OK
Reply: some fantastic value
```

Note that this program will not exit cleanly because the client is still connected.

```
redis.debug_mode
```

Boolean to enable debug mode and protocol tracing.

```
```js
var redis = require("redis"),
    client = redis.createClient();

redis.debug_mode = true;
```

```
client.on("connect", function () {
  client.set("foo_rand000000000000", "some fantastic value");
});
...

```

This will display:

```
mjr:~/work/node_redis (master)$ node ~/example.js
send command: *3
$3
SET
$20
foo_rand000000000000
$20
some fantastic value

on_data: +OK

```

`send command` is data sent into Redis and `on_data` is data received from Redis.

Multi-word commands

To execute redis multi-word commands like `SCRIPT LOAD` or `CLIENT LIST` pass the second word as first parameter:

```
client.script('load', 'return 1');
client.multi().script('load', 'return 1').exec(...);
client.multi(['script', 'load', 'return 1']).exec(...);

```

client.send_command(command_name, args, callback)

Used internally to send commands to Redis. For convenience, nearly all commands that are published on the Redis Wiki have been added to the `client` object. However, if I missed any, or if new commands are introduced before this library is updated, you can use `send_command()` to send arbitrary commands to Redis.

All commands are sent as multi-bulk commands. `args` can either be an Array of arguments, or omitted.

client.connected

Boolean tracking the state of the connection to the Redis server.

client.command_queue.length

The number of commands that have been sent to the Redis server but not yet replied to. You can use this to enforce some kind of maximum queue depth for commands while connected.

Don't mess with `client.command_queue` though unless you really know what you are doing.


```
## client.offline_queue.length
```

The number of commands that have been queued up for a future connection. You can use this to enforce some kind of maximum queue depth for pre-connection commands.

```
## client.retry_delay
```

Current delay in milliseconds before a connection retry will be attempted. This starts at `250`.

```
## client.retry_backoff
```

Multiplier for future retry timeouts. This should be larger than 1 to add more time between retries. Defaults to 1.7. The default initial connection retry is 250, so the second retry will be 425, followed by 723.5, etc.

```
### Commands with Optional and Keyword arguments
```

This applies to anything that uses an optional `[WITHSCORES]` or `[LIMIT offset count]` in the `redis.io/commands` documentation.

Example:

```
```js
var args = ['myzset', 1, 'one', 2, 'two', 3, 'three', 99, 'ninety-nine'];
client.zadd(args, function (err, response) {
 if (err) throw err;
 console.log('added '+response+' items.');
```

```
 // -Infinity and +Infinity also work
 var args1 = ['myzset', '+inf', '-inf'];
 client.zrevrangebyscore(args1, function (err, response) {
 if (err) throw err;
 console.log('example1', response);
 // write your code here
 });

 var max = 3, min = 1, offset = 1, count = 2;
 var args2 = ['myzset', max, min, 'WITHSCORES', 'LIMIT', offset, count];
 client.zrevrangebyscore(args2, function (err, response) {
 if (err) throw err;
 console.log('example2', response);
 // write your code here
 });
});
```
```

```
## TODO
```

Better tests for auth, disconnect/reconnect, and all combinations thereof.

Stream large set/get values into and out of Redis. Otherwise the entire value must be in node's memory.

Performance can be better for very large values.

I think there are more performance improvements left in there for smaller values, especially for large lists of small values.

How to Contribute

- open a pull request and then wait for feedback (if [DTrejo](http://github.com/dtrejo) does not get back to you within 2 days, comment again with indignation!)

Contributors

Some people have added features and fixed bugs in `node_redis` other than me.

Ordered by date of first contribution.

[Auto-generated](http://github.com/dtrejo/node-authors) on Wed Jul 25 2012 19:14:59 GMT-0700 (PDT).

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Thanks.

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1.681 redis 2.8.14 :2.e17

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1.682 redis 0.9.0

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redis - a node.js redis client

This is a complete Redis client for node.js. It supports all Redis commands, including many recently added commands like EVAL from experimental Redis server branches.

Install with:

```
npm install redis
```

Pieter Noordhuis has provided a binding to the official `hiredis` C library, which is non-blocking and fast. To use `hiredis`, do:

```
npm install hiredis redis
```

If `hiredis` is installed, `node_redis` will use it by default. Otherwise, a pure JavaScript parser will be used.

If you use `hiredis`, be sure to rebuild it whenever you upgrade your version of node. There are mysterious failures that can happen between node and native code modules after a node upgrade.

Usage

Simple example, included as `examples/simple.js`:

```
```js
var redis = require("redis"),
 client = redis.createClient();

// if you'd like to select database 3, instead of 0 (default), call
// client.select(3, function() { /* ... */ });
```

```

client.on("error", function (err) {
 console.log("Error " + err);
});

client.set("string key", "string val", redis.print);
client.hset("hash key", "hashtest 1", "some value", redis.print);
client.hset(["hash key", "hashtest 2", "some other value"], redis.print);
client.hkeys("hash key", function (err, replies) {
 console.log(replies.length + " replies:");
 replies.forEach(function (reply, i) {
 console.log(" " + i + ": " + reply);
 });
 client.quit();
});
...

```

This will display:

```

mjr:~/work/node_redis (master)$ node example.js
Reply: OK
Reply: 0
Reply: 0
2 replies:
 0: hashtest 1
 1: hashtest 2
mjr:~/work/node_redis (master)$

```

### ## Performance

Here are typical results of `multi\_bench.js` which is similar to `redis-benchmark` from the Redis distribution. It uses 50 concurrent connections with no pipelining.

JavaScript parser:

```

PING: 20000 ops 42283.30 ops/sec 0/5/1.182
SET: 20000 ops 32948.93 ops/sec 1/7/1.515
GET: 20000 ops 28694.40 ops/sec 0/9/1.740
INCR: 20000 ops 39370.08 ops/sec 0/8/1.269
LPUSH: 20000 ops 36429.87 ops/sec 0/8/1.370
LRANGE (10 elements): 20000 ops 9891.20 ops/sec 1/9/5.048
LRANGE (100 elements): 20000 ops 1384.56 ops/sec 10/91/36.072

```

hiredis parser:

```

PING: 20000 ops 46189.38 ops/sec 1/4/1.082
SET: 20000 ops 41237.11 ops/sec 0/6/1.210
GET: 20000 ops 39682.54 ops/sec 1/7/1.257

```

```
INCR: 20000 ops 40080.16 ops/sec 0/8/1.242
LPUSH: 20000 ops 41152.26 ops/sec 0/3/1.212
LRANGE (10 elements): 20000 ops 36563.07 ops/sec 1/8/1.363
LRANGE (100 elements): 20000 ops 21834.06 ops/sec 0/9/2.287
```

The performance of `node_redis` improves dramatically with pipelining, which happens automatically in most normal programs.`

### ### Sending Commands

Each Redis command is exposed as a function on the `client` object. All functions take either an args` Array plus optional callback` Function or a variable number of individual arguments followed by an optional callback. Here is an example of passing an array of arguments and a callback:`

```
client.mset(["test keys 1", "test val 1", "test keys 2", "test val 2"], function (err, res) { });
```

Here is that same call in the second style:

```
client.mset("test keys 1", "test val 1", "test keys 2", "test val 2", function (err, res) { });
```

Note that in either form the `callback` is optional:`

```
client.set("some key", "some val");
client.set(["some other key", "some val"]);
```

If the key is missing, reply will be null (probably):

```
client.get("missingkey", function(err, reply) {
 // reply is null when the key is missing
 console.log(reply);
});
```

For a list of Redis commands, see [Redis Command Reference](<http://redis.io/commands>)

The commands can be specified in uppercase or lowercase for convenience. `client.get()` is the same as client.GET()`.`

Minimal parsing is done on the replies. Commands that return a single line reply return JavaScript Strings, integer replies return JavaScript Numbers, "bulk" replies return node Buffers, and "multi bulk" replies return a JavaScript Array of node Buffers. `HGETALL` returns an Object with Buffers keyed by the hash keys.`

# API

## Connection Events

`client` will emit some events about the state of the connection to the Redis server.`



```
"ready"
```

``client`` will emit ``ready`` a connection is established to the Redis server and the server reports that it is ready to receive commands. Commands issued before the ``ready`` event are queued, then replayed just before this event is emitted.

```
"connect"
```

``client`` will emit ``connect`` at the same time as it emits ``ready`` unless ``client.options.no_ready_check`` is set. If this options is set, ``connect`` will be emitted when the stream is connected, and then you are free to try to send commands.

```
"error"
```

``client`` will emit ``error`` when encountering an error connecting to the Redis server.

Note that "error" is a special event type in node. If there are no listeners for an "error" event, node will exit. This is usually what you want, but it can lead to some cryptic error messages like this:

```
mjr:~/work/node_redis (master)$ node example.js
```

```
node.js:50
```

```
 throw e;
```

```
 ^
```

```
Error: ECONNREFUSED, Connection refused
```

```
 at IOWatcher.callback (net:870:22)
```

```
 at node.js:607:9
```

Not very useful in diagnosing the problem, but if your program isn't ready to handle this, it is probably the right thing to just exit.

``client`` will also emit ``error`` if an exception is thrown inside of ``node_redis`` for whatever reason. It would be nice to distinguish these two cases.

```
"end"
```

``client`` will emit ``end`` when an established Redis server connection has closed.

```
"drain"
```

``client`` will emit ``drain`` when the TCP connection to the Redis server has been buffering, but is now writable. This event can be used to stream commands in to Redis and adapt to backpressure. Right now, you need to check ``client.command_queue.length`` to decide when to reduce your send rate. Then you can resume sending when you get ``drain``.

```
"idle"
```

``client`` will emit ``idle`` when there are no outstanding commands that are awaiting a response.

```
redis.createClient(port, host, options)
```

Create a new client connection. ``port`` defaults to ``6379`` and ``host`` defaults to ``127.0.0.1``. If you have ``redis-server`` running on the same computer as node, then the defaults for port and host are probably fine. ``options`` in an object with the following possible properties:

- \* ``parser``: which Redis protocol reply parser to use. Defaults to ``hiredis`` if that module is installed.

This may also be set to ``javascript``.

- \* ``return_buffers``: defaults to ``false``. If set to ``true``, then all replies will be sent to callbacks as node Buffer objects instead of JavaScript Strings.

- \* ``detect_buffers``: default to ``false``. If set to ``true``, then replies will be sent to callbacks as node Buffer objects if any of the input arguments to the original command were Buffer objects.

This option lets you switch between Buffers and Strings on a per-command basis, whereas ``return_buffers`` applies to

every command on a client.

- \* ``socket_nodelay``: defaults to ``true``. Whether to call `setNoDelay()` on the TCP stream, which disables the Nagle algorithm on the underlying socket. Setting this option to ``false`` can result in additional throughput at the cost of more latency. Most applications will want this set to ``true``.

- \* ``no_ready_check``: defaults to ``false``. When a connection is established to the Redis server, the server might still be loading the database from disk. While loading, the server not respond to any commands. To work around this, ``node_redis`` has a "ready check" which sends the ``INFO`` command to the server. The response from the ``INFO`` command

indicates whether the server is ready for more commands. When ready, ``node_redis`` emits a ``ready`` event.

Setting ``no_ready_check`` to ``true`` will inhibit this check.

- \* ``enable_offline_queue``: defaults to ``true``. By default, if there is no active connection to the redis server, commands are added to a queue and are executed once the connection has been established. Setting ``enable_offline_queue`` to ``false`` will disable this feature and the callback will be execute immediately with an error, or an error will be thrown if no callback is specified.

- \* ``retry_max_delay``: defaults to ``null``. By default every time the client tries to connect and fails time before reconnection (delay) almost doubles. This delay normally grows infinitely, but setting ``retry_max_delay`` limits delay

to maximum value, provided in milliseconds.

- \* ``connect_timeout`` defaults to ``false``. By default client will try reconnecting until connected. Setting ``connect_timeout``

limits total time for client to reconnect. Value is provided in milliseconds and is counted once the disconnect occurred.

- \* ``max_attempts`` defaults to ``null``. By default client will try reconnecting until connected. Setting ``max_attempts`` limits total amount of reconnects.

- \* ``auth_pass`` defaults to ``null``. By default client will try connecting without auth. If set, client will run `redis auth` command on connect.

```
```js
```

```
var redis = require("redis"),
    client = redis.createClient(null, null, {detect_buffers: true});
```

```

client.set("foo_rand000000000000", "OK");

// This will return a JavaScript String
client.get("foo_rand000000000000", function (err, reply) {
  console.log(reply.toString()); // Will print `OK`
});

// This will return a Buffer since original key is specified as a Buffer
client.get(new Buffer("foo_rand000000000000"), function (err, reply) {
  console.log(reply.toString()); // Will print `<Buffer 4f 4b>`
});
client.end();

```

`createClient()` returns a `RedisClient` object that is named `client` in all of the examples here.

Unix Domain Socket

You can also create a connection to Redis server via the unix domain socket if the server has it enabled:

```

```js
var redis = require("redis");
var client = redis.createClient("/tmp/redis.sock");

```

Sample `redis.conf` configuration to enable unix domain socket listening:

```

```conf
unixsocket /tmp/redis.sock
unixsocketperm 755

```

See [issue #204](https://github.com/mranney/node_redis/issues/204) for more information.

client.auth(password, callback)

When connecting to Redis servers that require authentication, the `AUTH` command must be sent as the first command after connecting. This can be tricky to coordinate with reconnections, the ready check, etc. To make this easier, `client.auth()` stashes `password` and will send it after each connection, including reconnections. `callback` is invoked only once, after the response to the very first `AUTH` command sent.

NOTE: Your call to `client.auth()` should not be inside the ready handler. If you are doing this wrong, `client` will emit an error that looks something like this `Error: Ready check failed: ERR operation not permitted`.

```

## client.end()

```

Forcibly close the connection to the Redis server. Note that this does not wait until all replies have been parsed. If you want to exit cleanly, call `client.quit()` to send the `QUIT` command after you have handled all replies.

This example closes the connection to the Redis server before the replies have been read. You probably don't want to do this:

```
```js
var redis = require("redis"),
 client = redis.createClient();

client.set("foo_rand000000000000", "some fantastic value");
client.get("foo_rand000000000000", function (err, reply) {
 console.log(reply.toString());
});
client.end();
```
```

`client.end()` is useful for timeout cases where something is stuck or taking too long and you want to start over.

```
## client.unref()
```

Call `unref()` on the underlying socket connection to the Redis server, allowing the program to exit once no more commands are pending.

This is an *experimental* feature, and only supports a subset of the Redis protocol. Any commands where client state is saved on the Redis server, e.g. `SUBSCRIBE` or the blocking `BL*` commands will *NOT* work with `unref()`.

```
```js
var redis = require("redis")
var client = redis.createClient()

/*
 Calling unref() will allow this program to exit immediately after the get command finishes. Otherwise the client
 would hang as long as the client-server connection is alive.
*/
client.unref()
client.get("foo", function (err, value){
 if (err) throw(err)
 console.log(value)
})
```

## Friendlier hash commands
```

Most Redis commands take a single String or an Array of Strings as arguments, and replies are sent back as a single

String or an Array of Strings.

When dealing with hash values, there are a couple of useful exceptions to this.

```
### client.hgetall(hash)
```

The reply from an HGETALL command will be converted into a JavaScript Object by `node_redis`. That way you can interact with the responses using JavaScript syntax.

Example:

```
client.hmset("hosts", "mjr", "1", "another", "23", "home", "1234");
client.hgetall("hosts", function (err, obj) {
  console.dir(obj);
});
```

Output:

```
{ mjr: '1', another: '23', home: '1234' }
```

```
### client.hmset(hash, obj, [callback])
```

Multiple values in a hash can be set by supplying an object:

```
client.HMSET(key2, {
  "0123456789": "abcdefghij", // NOTE: key and value will be coerced to strings
  "some manner of key": "a type of value"
});
```

The properties and values of this Object will be set as keys and values in the Redis hash.

```
### client.hmset(hash, key1, val1, ... keyn, valn, [callback])
```

Multiple values may also be set by supplying a list:

```
client.HMSET(key1, "0123456789", "abcdefghij", "some manner of key", "a type of value");
```

```
## Publish / Subscribe
```

Here is a simple example of the API for publish / subscribe. This program opens two client connections, subscribes to a channel on one of them, and publishes to that channel on the other:

```
```js
var redis = require("redis"),
 client1 = redis.createClient(), client2 = redis.createClient(),
 msg_count = 0;
```

```

client1.on("subscribe", function (channel, count) {
 client2.publish("a nice channel", "I am sending a message.");
 client2.publish("a nice channel", "I am sending a second message.");
 client2.publish("a nice channel", "I am sending my last message.");
});

client1.on("message", function (channel, message) {
 console.log("client1 channel " + channel + ": " + message);
 msg_count += 1;
 if (msg_count === 3) {
 client1.unsubscribe();
 client1.end();
 client2.end();
 }
});

client1.incr("did a thing");
client1.subscribe("a nice channel");
...

```

When a client issues a `SUBSCRIBE` or `PSUBSCRIBE`, that connection is put into a "subscriber" mode. At that point, only commands that modify the subscription set are valid. When the subscription set is empty, the connection is put back into regular mode.

If you need to send regular commands to Redis while in subscriber mode, just open another connection.

### ## Subscriber Events

If a client has subscriptions active, it may emit these events:

```
"message" (channel, message)
```

Client will emit `message` for every message received that matches an active subscription. Listeners are passed the channel name as `channel` and the message Buffer as `message`.

```
"pmessage" (pattern, channel, message)
```

Client will emit `pmessage` for every message received that matches an active subscription pattern. Listeners are passed the original pattern used with `PSUBSCRIBE` as `pattern`, the sending channel name as `channel`, and the message Buffer as `message`.

```
"subscribe" (channel, count)
```

Client will emit `subscribe` in response to a `SUBSCRIBE` command. Listeners are passed the channel name as `channel` and the new count of subscriptions for this client as `count`.

```
"psubscribe" (pattern, count)
```

Client will emit `psubscribe` in response to a `PSUBSCRIBE` command. Listeners are passed the original pattern as `pattern`, and the new count of subscriptions for this client as `count`.

```
"unsubscribe" (channel, count)
```

Client will emit `unsubscribe` in response to a `UNSUBSCRIBE` command. Listeners are passed the channel name as `channel` and the new count of subscriptions for this client as `count`. When `count` is 0, this client has left subscriber mode and no more subscriber events will be emitted.

```
"punsubscribe" (pattern, count)
```

Client will emit `punsubscribe` in response to a `PUNSUBSCRIBE` command. Listeners are passed the channel name as `channel` and the new count of subscriptions for this client as `count`. When `count` is 0, this client has left subscriber mode and no more subscriber events will be emitted.

```
client.multi([commands])
```

`MULTI` commands are queued up until an `EXEC` is issued, and then all commands are run atomically by Redis. The interface in `node\_redis` is to return an individual `Multi` object by calling `client.multi()`.

```
```js
var redis = require("./index"),
    client = redis.createClient(), set_size = 20;

client.sadd("bigset", "a member");
client.sadd("bigset", "another member");

while (set_size > 0) {
  client.sadd("bigset", "member " + set_size);
  set_size -= 1;
}

// multi chain with an individual callback
client.multi()
  .scard("bigset")
  .smembers("bigset")
  .keys("*", function (err, replies) {
    // NOTE: code in this callback is NOT atomic
    // this only happens after the the .exec call finishes.
    client.mget(replies, redis.print);
  })
  .dbsize()
  .exec(function (err, replies) {
    console.log("MULTI got " + replies.length + " replies");
    replies.forEach(function (reply, index) {
      console.log("Reply " + index + ": " + reply.toString());
    });
  });
```
```

```
});
...

```

```
Multi.exec(callback)
```

`client.multi()` is a constructor that returns a `Multi` object. `Multi` objects share all of the same command methods as `client` objects do. Commands are queued up inside the `Multi` object until `Multi.exec()` is invoked.

The `callback` of `.exec()` will get invoked with two arguments:

\* `err` **type:** `null | Array` `err` is either null or an array of Error Objects corresponding the the sequence the commands where chained. The last item of the array will always be an `EXECABORT` type of error originating from the `.exec()` itself.

\* `results` **type:** `null | Array` `results` is an array of responses corresponding the the sequence the commands where chained.

You can either chain together `MULTI` commands as in the above example, or you can queue individual commands while still sending regular client command as in this example:

```
```js  
var redis = require("redis"),  
    client = redis.createClient(), multi;  
  
// start a separate multi command queue  
multi = client.multi();  
multi.incr("incr thing", redis.print);  
multi.incr("incr other thing", redis.print);  
  
// runs immediately  
client.mset("incr thing", 100, "incr other thing", 1, redis.print);  
  
// drains multi queue and runs atomically  
multi.exec(function (err, replies) {  
  console.log(replies); // 101, 2  
});  
  
// you can re-run the same transaction if you like  
multi.exec(function (err, replies) {  
  console.log(replies); // 102, 3  
  client.quit();  
});  
```
```

In addition to adding commands to the `MULTI` queue individually, you can also pass an array of commands and arguments to the constructor:

```
```js
```



```

var redis = require("redis"),
    client = redis.createClient(), multi;

client.multi([
  ["mget", "multifoo", "multibar", redis.print],
  ["incr", "multifoo"],
  ["incr", "multibar"]
]).exec(function (err, replies) {
  console.log(replies);
});
...

```

Monitor mode

Redis supports the `MONITOR` command, which lets you see all commands received by the Redis server across all client connections, including from other client libraries and other computers.

After you send the `MONITOR` command, no other commands are valid on that connection. `node_redis` will emit a `monitor` event for every new monitor message that comes across. The callback for the `monitor` event takes a timestamp from the Redis server and an array of command arguments.

Here is a simple example:

```

```js
var client = require("redis").createClient(),
 util = require("util");

client.monitor(function (err, res) {
 console.log("Entering monitoring mode.");
});

client.on("monitor", function (time, args) {
 console.log(time + ": " + util.inspect(args));
});
...

```

## # Extras

Some other things you might like to know about.

### ## client.server\_info

After the ready probe completes, the results from the INFO command are saved in the `client.server_info` object.

The `versions` key contains an array of the elements of the version string for easy comparison.

```
> client.server_info.redis_version
'2.3.0'
> client.server_info.versions
[2, 3, 0]
```

```
redis.print()
```

A handy callback function for displaying return values when testing. Example:

```
```js
var redis = require("redis"),
    client = redis.createClient();

client.on("connect", function () {
  client.set("foo_rand000000000000", "some fantastic value", redis.print);
  client.get("foo_rand000000000000", redis.print);
});
```
```

This will print:

```
Reply: OK
Reply: some fantastic value
```

Note that this program will not exit cleanly because the client is still connected.

```
redis.debug_mode
```

Boolean to enable debug mode and protocol tracing.

```
```js
var redis = require("redis"),
    client = redis.createClient();

redis.debug_mode = true;

client.on("connect", function () {
  client.set("foo_rand000000000000", "some fantastic value");
});
```
```

This will display:

```
mjr:~/work/node_redis (master)$ node ~/example.js
send command: *3
$3
SET
$20
```

```
foo_rand000000000000
$20
some fantastic value

on_data: +OK
```

``send command`` is data sent into Redis and ``on_data`` is data received from Redis.

### ## Multi-word commands

To execute redis multi-word commands like ``SCRIPT LOAD`` or ``CLIENT LIST`` pass the second word as first parameter:

```
client.script('load', 'return 1');
client.multi().script('load', 'return 1').exec(...);
client.multi(['script', 'load', 'return 1']).exec(...);
```

### ## client.send\_command(command\_name, args, callback)

Used internally to send commands to Redis. For convenience, nearly all commands that are published on the Redis Wiki have been added to the ``client`` object. However, if I missed any, or if new commands are introduced before this library is updated, you can use ``send_command()`` to send arbitrary commands to Redis.

All commands are sent as multi-bulk commands. ``args`` can either be an Array of arguments, or omitted.

### ## client.connected

Boolean tracking the state of the connection to the Redis server.

### ## client.command\_queue.length

The number of commands that have been sent to the Redis server but not yet replied to. You can use this to enforce some kind of maximum queue depth for commands while connected.

Don't mess with ``client.command_queue`` though unless you really know what you are doing.

### ## client.offline\_queue.length

The number of commands that have been queued up for a future connection. You can use this to enforce some kind of maximum queue depth for pre-connection commands.

### ## client.retry\_delay

Current delay in milliseconds before a connection retry will be attempted. This starts at ``250``.

### ## client.retry\_backoff

Multiplier for future retry timeouts. This should be larger than 1 to add more time between retries.

Defaults to 1.7. The default initial connection retry is 250, so the second retry will be 425, followed by 723.5, etc.

### ### Commands with Optional and Keyword arguments

This applies to anything that uses an optional `[WITHSCORES]` or `[LIMIT offset count]` in the [\[redis.io/commands\]](http://redis.io/commands)(<http://redis.io/commands>) documentation.

Example:

```
```js
var args = [ 'myzset', 1, 'one', 2, 'two', 3, 'three', 99, 'ninety-nine' ];
client.zadd(args, function (err, response) {
  if (err) throw err;
  console.log('added '+response+' items.');
```



```
  // -Infinity and +Infinity also work
  var args1 = [ 'myzset', '+inf', '-inf' ];
  client.zrevrangebyscore(args1, function (err, response) {
    if (err) throw err;
    console.log('example1', response);
    // write your code here
  });

  var max = 3, min = 1, offset = 1, count = 2;
  var args2 = [ 'myzset', max, min, 'WITHSCORES', 'LIMIT', offset, count ];
  client.zrevrangebyscore(args2, function (err, response) {
    if (err) throw err;
    console.log('example2', response);
    // write your code here
  });
});
```
```

### ## TODO

Better tests for auth, disconnect/reconnect, and all combinations thereof.

Stream large set/get values into and out of Redis. Otherwise the entire value must be in node's memory.

Performance can be better for very large values.

I think there are more performance improvements left in there for smaller values, especially for large lists of small values.

### ## How to Contribute

- open a pull request and then wait for feedback (if [DTrejo](<http://github.com/dtrejo>) does not get back to you within 2 days, comment again with indignation!)

## ## Contributors

Some people have have added features and fixed bugs in `node\_redis` other than me.

Ordered by date of first contribution.

[Auto-generated](http://github.com/dtrejo/node-authors) on Wed Jul 25 2012 19:14:59 GMT-0700 (PDT).

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Thanks.

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![spacer](http://ranney.com/1px.gif)

# 1.683 redis 0.12.1

## 1.683.1 Available under license :

redis - a node.js redis client

=====

This is a complete Redis client for node.js. It supports all Redis commands, including many recently added commands like EVAL from experimental Redis server branches.

Install with:

```
npm install redis
```

Pieter Noordhuis has provided a binding to the official `hiredis` C library, which is non-blocking and fast. To use `hiredis`, do:

```
npm install hiredis redis
```

If `hiredis` is installed, `node\_redis` will use it by default. Otherwise, a pure JavaScript parser will be used.

If you use `hiredis`, be sure to rebuild it whenever you upgrade your version of node. There are mysterious failures that can

happen between node and native code modules after a node upgrade.

## ## Usage

Simple example, included as `examples/simple.js``:

```
``js
var redis = require("redis"),
 client = redis.createClient();

// if you'd like to select database 3, instead of 0 (default), call
// client.select(3, function() { /* ... */ });

client.on("error", function (err) {
 console.log("Error " + err);
});

client.set("string key", "string val", redis.print);
client.hset("hash key", "hashtest 1", "some value", redis.print);
client.hset(["hash key", "hashtest 2", "some other value"], redis.print);
client.hkeys("hash key", function (err, replies) {
 console.log(replies.length + " replies:");
 replies.forEach(function (reply, i) {
 console.log(" " + i + ": " + reply);
 });
 client.quit();
});
``
```

This will display:

```
mjr:~/work/node_redis (master)$ node example.js
Reply: OK
Reply: 0
Reply: 0
2 replies:
 0: hashtest 1
 1: hashtest 2
mjr:~/work/node_redis (master)$
```

## ## Performance

Here are typical results of `multi_bench.js`` which is similar to `redis-benchmark`` from the Redis distribution. It uses 50 concurrent connections with no pipelining.

JavaScript parser:

```
PING: 20000 ops 42283.30 ops/sec 0/5/1.182
SET: 20000 ops 32948.93 ops/sec 1/7/1.515
GET: 20000 ops 28694.40 ops/sec 0/9/1.740
INCR: 20000 ops 39370.08 ops/sec 0/8/1.269
LPUSH: 20000 ops 36429.87 ops/sec 0/8/1.370
LRANGE (10 elements): 20000 ops 9891.20 ops/sec 1/9/5.048
LRANGE (100 elements): 20000 ops 1384.56 ops/sec 10/91/36.072
```

hiredis parser:

```
PING: 20000 ops 46189.38 ops/sec 1/4/1.082
SET: 20000 ops 41237.11 ops/sec 0/6/1.210
GET: 20000 ops 39682.54 ops/sec 1/7/1.257
INCR: 20000 ops 40080.16 ops/sec 0/8/1.242
LPUSH: 20000 ops 41152.26 ops/sec 0/3/1.212
LRANGE (10 elements): 20000 ops 36563.07 ops/sec 1/8/1.363
LRANGE (100 elements): 20000 ops 21834.06 ops/sec 0/9/2.287
```

The performance of `node_redis` improves dramatically with pipelining, which happens automatically in most normal programs.`

### ### Sending Commands

Each Redis command is exposed as a function on the `client` object. All functions take either an args` Array plus optional callback` Function or a variable number of individual arguments followed by an optional callback. Here is an example of passing an array of arguments and a callback:`

```
client.mset(["test keys 1", "test val 1", "test keys 2", "test val 2"], function (err, res) {});
```

Here is that same call in the second style:

```
client.mset("test keys 1", "test val 1", "test keys 2", "test val 2", function (err, res) {});
```

Note that in either form the `callback` is optional:`

```
client.set("some key", "some val");
client.set(["some other key", "some val"]);
```

If the key is missing, reply will be null (probably):

```
client.get("missingkey", function(err, reply) {
 // reply is null when the key is missing
 console.log(reply);
});
```

For a list of Redis commands, see [Redis Command Reference](<http://redis.io/commands>)



The commands can be specified in uppercase or lowercase for convenience. `client.get()` is the same as `client.GET()`.

Minimal parsing is done on the replies. Commands that return a single line reply return JavaScript Strings, integer replies return JavaScript Numbers, "bulk" replies return node Buffers, and "multi bulk" replies return a JavaScript Array of node Buffers. `HGETALL` returns an Object with Buffers keyed by the hash keys.

# API

## Connection Events

`client` will emit some events about the state of the connection to the Redis server.

### "ready"

`client` will emit `ready` a connection is established to the Redis server and the server reports that it is ready to receive commands. Commands issued before the `ready` event are queued, then replayed just before this event is emitted.

### "connect"

`client` will emit `connect` at the same time as it emits `ready` unless `client.options.no_ready_check` is set. If this options is set, `connect` will be emitted when the stream is connected, and then you are free to try to send commands.

### "error"

`client` will emit `error` when encountering an error connecting to the Redis server.

Note that "error" is a special event type in node. If there are no listeners for an "error" event, node will exit. This is usually what you want, but it can lead to some cryptic error messages like this:

```
mjr:~/work/node_redis (master)$ node example.js
```

```
node.js:50
```

```
 throw e;
```

```
 ^
```

```
Error: ECONNREFUSED, Connection refused
```

```
 at IOWatcher.callback (net:870:22)
```

```
 at node.js:607:9
```

Not very useful in diagnosing the problem, but if your program isn't ready to handle this, it is probably the right thing to just exit.

`client` will also emit `error` if an exception is thrown inside of `node_redis` for whatever reason.

It would be nice to distinguish these two cases.

```
"end"
```

``client`` will emit ``end`` when an established Redis server connection has closed.

```
"drain"
```

``client`` will emit ``drain`` when the TCP connection to the Redis server has been buffering, but is now writable. This event can be used to stream commands in to Redis and adapt to backpressure. Right now, you need to check ``client.command_queue.length`` to decide when to reduce your send rate. Then you can resume sending when you get ``drain``.

```
"idle"
```

``client`` will emit ``idle`` when there are no outstanding commands that are awaiting a response.

```
redis.createClient()
```

```
overloading
```

```
* redis.createClient() = redis.createClient(6379, '127.0.0.1', {})
* redis.createClient(options) = redis.createClient(6379, '127.0.0.1', options)
* redis.createClient(unix_socket, options)
* redis.createClient(port, host, options)
```

If you have ``redis-server`` running on the same computer as node, then the defaults for port and host are probably fine. ``options`` in an object with the following possible properties:

\* ``parser``: which Redis protocol reply parser to use. Defaults to ``hiredis`` if that module is installed.

This may also be set to ``javascript``.

\* ``return_buffers``: defaults to ``false``. If set to ``true``, then all replies will be sent to callbacks as node Buffer objects instead of JavaScript Strings.

\* ``detect_buffers``: default to ``false``. If set to ``true``, then replies will be sent to callbacks as node Buffer objects if any of the input arguments to the original command were Buffer objects.

This option lets you switch between Buffers and Strings on a per-command basis, whereas ``return_buffers`` applies to

every command on a client.

\* ``socket_nodelay``: defaults to ``true``. Whether to call `setNoDelay()` on the TCP stream, which disables the Nagle algorithm on the underlying socket. Setting this option to ``false`` can result in additional throughput at the cost of more latency. Most applications will want this set to ``true``.

\* ``socket_keepalive`` defaults to ``true``. Whether the keep-alive functionality is enabled on the underlying socket.

\* ``no_ready_check``: defaults to ``false``. When a connection is established to the Redis server, the server might still be loading the database from disk. While loading, the server not respond to any commands. To work around this, ``node_redis`` has a "ready check" which sends the ``INFO`` command to the server. The response from the ``INFO`` command

indicates whether the server is ready for more commands. When ready, ``node_redis`` emits a ``ready`` event.

Setting ``no_ready_check`` to ``true`` will inhibit this check.

\* ``enable_offline_queue``: defaults to ``true``. By default, if there is no active connection to the redis server, commands are added to a queue and are executed

once the connection has been established. Setting `enable_offline_queue`` to `false`` will disable this feature and the callback will be execute immediately with an error, or an error will be thrown if no callback is specified.

\* `retry_max_delay``: defaults to `null``. By default every time the client tries to connect and fails time before reconnection (delay) almost doubles. This delay normally grows infinitely, but setting `retry_max_delay`` limits delay

to maximum value, provided in milliseconds.

\* `connect_timeout`` defaults to `false``. By default client will try reconnecting until connected. Setting `connect_timeout``

limits total time for client to reconnect. Value is provided in milliseconds and is counted once the disconnect occurred.

\* `max_attempts`` defaults to `null``. By default client will try reconnecting until connected. Setting `max_attempts`` limits total amount of reconnects.

\* `auth_pass`` defaults to `null``. By default client will try connecting without auth. If set, client will run redis auth command on connect.

\* `family`` defaults to `IPv4``. The client connects in IPv4 if not specified or if the DNS resolution returns an IPv4 address.

You can force an IPv6 if you set the family to `IPv6``. See nodejs net or dns modules how to use the family type.

```
```js
var redis = require("redis"),
    client = redis.createClient({detect_buffers: true});

client.set("foo_rand0000000000000", "OK");

// This will return a JavaScript String
client.get("foo_rand0000000000000", function (err, reply) {
  console.log(reply.toString()); // Will print `OK`
});

// This will return a Buffer since original key is specified as a Buffer
client.get(new Buffer("foo_rand0000000000000"), function (err, reply) {
  console.log(reply.toString()); // Will print `<Buffer 4f 4b>`
});
client.end();
```
```

`createClient()`` returns a `RedisClient`` object that is named `client`` in all of the examples here.

```
client.auth(password, callback)
```

When connecting to Redis servers that require authentication, the `AUTH`` command must be sent as the first command after connecting. This can be tricky to coordinate with reconnections, the ready check, etc. To make this easier, `client.auth()`` stashes `password`` and will send it after each connection, including reconnections. `callback`` is invoked only once, after the response to the very first `AUTH`` command sent.

NOTE: Your call to `client.auth()`` should not be inside the ready handler. If

you are doing this wrong, `client` will emit an error that looks something like this `Error: Ready check failed: ERR operation not permitted`.

```
client.end()
```

Forcibly close the connection to the Redis server. Note that this does not wait until all replies have been parsed. If you want to exit cleanly, call `client.quit()` to send the `QUIT` command after you have handled all replies.

This example closes the connection to the Redis server before the replies have been read. You probably don't want to do this:

```
```js
var redis = require("redis"),
    client = redis.createClient();

client.set("foo_rand000000000000", "some fantastic value");
client.get("foo_rand000000000000", function (err, reply) {
  console.log(reply.toString());
});
client.end();
```
```

`client.end()` is useful for timeout cases where something is stuck or taking too long and you want to start over.

```
client.unref()
```

Call `unref()` on the underlying socket connection to the Redis server, allowing the program to exit once no more commands are pending.

This is an *experimental* feature, and only supports a subset of the Redis protocol. Any commands where client state is saved on the Redis server, e.g. `SUBSCRIBE` or the blocking `BL*` commands will *NOT* work with `unref()`.

```
```js
var redis = require("redis")
var client = redis.createClient()

/*
  Calling unref() will allow this program to exit immediately after the get command finishes. Otherwise the client
  would hang as long as the client-server connection is alive.
*/
client.unref()
client.get("foo", function (err, value){
  if (err) throw(err)
  console.log(value)
})
```
```

## ## Friendlier hash commands

Most Redis commands take a single String or an Array of Strings as arguments, and replies are sent back as a single String or an Array of Strings.

When dealing with hash values, there are a couple of useful exceptions to this.

### ### client.hgetall(hash)

The reply from an HGETALL command will be converted into a JavaScript Object by `node_redis``. That way you can interact

with the responses using JavaScript syntax.

Example:

```
client.hmset("hosts", "mjr", "1", "another", "23", "home", "1234");
client.hgetall("hosts", function (err, obj) {
 console.dir(obj);
});
```

Output:

```
{ mjr: '1', another: '23', home: '1234' }
```

### ### client.hmset(hash, obj, [callback])

Multiple values in a hash can be set by supplying an object:

```
client.HMSET(key2, {
 "0123456789": "abcdefghij", // NOTE: key and value will be coerced to strings
 "some manner of key": "a type of value"
});
```

The properties and values of this Object will be set as keys and values in the Redis hash.

### ### client.hmset(hash, key1, val1, ... keyn, valn, [callback])

Multiple values may also be set by supplying a list:

```
client.HMSET(key1, "0123456789", "abcdefghij", "some manner of key", "a type of value");
```

## ## Publish / Subscribe

Here is a simple example of the API for publish / subscribe. This program opens two client connections, subscribes to a channel on one of them, and publishes to that channel on the other:

```

```js
var redis = require("redis"),
    client1 = redis.createClient(), client2 = redis.createClient(),
    msg_count = 0;

client1.on("subscribe", function (channel, count) {
    client2.publish("a nice channel", "I am sending a message.");
    client2.publish("a nice channel", "I am sending a second message.");
    client2.publish("a nice channel", "I am sending my last message.");
});

client1.on("message", function (channel, message) {
    console.log("client1 channel " + channel + ": " + message);
    msg_count += 1;
    if (msg_count === 3) {
        client1.unsubscribe();
        client1.end();
        client2.end();
    }
});

client1.incr("did a thing");
client1.subscribe("a nice channel");
```

```

When a client issues a `SUBSCRIBE` or `PSUBSCRIBE`, that connection is put into a "subscriber" mode. At that point, only commands that modify the subscription set are valid. When the subscription set is empty, the connection is put back into regular mode.

If you need to send regular commands to Redis while in subscriber mode, just open another connection.

#### ## Subscriber Events

If a client has subscriptions active, it may emit these events:

```
"message" (channel, message)
```

Client will emit `message` for every message received that matches an active subscription. Listeners are passed the channel name as `channel` and the message Buffer as `message`.

```
"pmessage" (pattern, channel, message)
```

Client will emit `pmessage` for every message received that matches an active subscription pattern. Listeners are passed the original pattern used with `PSUBSCRIBE` as `pattern`, the sending channel name as `channel`, and the message Buffer as `message`.

```
"subscribe" (channel, count)
```

Client will emit `subscribe` in response to a `SUBSCRIBE` command. Listeners are passed the channel name as `channel` and the new count of subscriptions for this client as `count`.

```
"psubscribe" (pattern, count)
```

Client will emit `psubscribe` in response to a `PSUBSCRIBE` command. Listeners are passed the original pattern as `pattern`, and the new count of subscriptions for this client as `count`.

```
"unsubscribe" (channel, count)
```

Client will emit `unsubscribe` in response to a `UNSUBSCRIBE` command. Listeners are passed the channel name as `channel` and the new count of subscriptions for this client as `count`. When `count` is 0, this client has left subscriber mode and no more subscriber events will be emitted.

```
"punsubscribe" (pattern, count)
```

Client will emit `punsubscribe` in response to a `PUNSUBSCRIBE` command. Listeners are passed the channel name as `channel` and the new count of subscriptions for this client as `count`. When `count` is 0, this client has left subscriber mode and no more subscriber events will be emitted.

```
client.multi([commands])
```

`MULTI` commands are queued up until an `EXEC` is issued, and then all commands are run atomically by Redis. The interface in `node\_redis` is to return an individual `Multi` object by calling `client.multi()`.

```
```js
var redis = require("./index"),
    client = redis.createClient(), set_size = 20;

client.sadd("bigset", "a member");
client.sadd("bigset", "another member");

while (set_size > 0) {
  client.sadd("bigset", "member " + set_size);
  set_size -= 1;
}

// multi chain with an individual callback
client.multi()
  .scard("bigset")
  .smembers("bigset")
  .keys("*", function (err, replies) {
    // NOTE: code in this callback is NOT atomic
    // this only happens after the the .exec call finishes.
    client.mget(replies, redis.print);
  })
  .dbsize()
  .exec(function (err, replies) {
```

```

    console.log("MULTI got " + replies.length + " replies");
    replies.forEach(function (reply, index) {
        console.log("Reply " + index + ": " + reply.toString());
    });
});
...

```

```

### Multi.exec( callback )

```

`client.multi()` is a constructor that returns a `Multi` object. `Multi` objects share all of the same command methods as `client` objects do. Commands are queued up inside the `Multi` object until `Multi.exec()` is invoked.

The `callback` of `.exec()` will get invoked with two arguments:

- * `err` **type:** `null | Array` `err` is either null or an array of Error Objects corresponding the the sequence the commands where chained. The last item of the array will always be an `EXECABORT` type of error originating from the `.exec()` itself.

- * `results` **type:** `null | Array` `results` is an array of responses corresponding the the sequence the commands where chained.

You can either chain together `MULTI` commands as in the above example, or you can queue individual commands while still sending regular client command as in this example:

```

```js
var redis = require("redis"),
 client = redis.createClient(), multi;

// start a separate multi command queue
multi = client.multi();
multi.incr("incr thing", redis.print);
multi.incr("incr other thing", redis.print);

// runs immediately
client.mset("incr thing", 100, "incr other thing", 1, redis.print);

// drains multi queue and runs atomically
multi.exec(function (err, replies) {
 console.log(replies); // 101, 2
});

// you can re-run the same transaction if you like
multi.exec(function (err, replies) {
 console.log(replies); // 102, 3
 client.quit();
});
```

```


In addition to adding commands to the `MULTI` queue individually, you can also pass an array of commands and arguments to the constructor:

```
```js
var redis = require("redis"),
 client = redis.createClient(), multi;

client.multi([
 ["mget", "multifoo", "multibar", redis.print],
 ["incr", "multifoo"],
 ["incr", "multibar"]
]).exec(function (err, replies) {
 console.log(replies);
});
```
```

Monitor mode

Redis supports the `MONITOR` command, which lets you see all commands received by the Redis server across all client connections, including from other client libraries and other computers.

After you send the `MONITOR` command, no other commands are valid on that connection. `node_redis` will emit a `monitor` event for every new monitor message that comes across. The callback for the `monitor` event takes a timestamp from the Redis server and an array of command arguments.

Here is a simple example:

```
```js
var client = require("redis").createClient(),
 util = require("util");

client.monitor(function (err, res) {
 console.log("Entering monitoring mode.");
});

client.on("monitor", function (time, args) {
 console.log(time + ": " + util.inspect(args));
});
```
```

Extras

Some other things you might like to know about.

client.server_info

After the ready probe completes, the results from the `INFO` command are saved in the `client.server_info`

object.

The `versions` key contains an array of the elements of the version string for easy comparison.

```
> client.server_info.redis_version
'2.3.0'
> client.server_info.versions
[ 2, 3, 0 ]
```

```
## redis.print()
```

A handy callback function for displaying return values when testing. Example:

```
```js
var redis = require("redis"),
 client = redis.createClient();

client.on("connect", function () {
 client.set("foo_rand000000000000", "some fantastic value", redis.print);
 client.get("foo_rand000000000000", redis.print);
});
```
```

This will print:

```
Reply: OK
Reply: some fantastic value
```

Note that this program will not exit cleanly because the client is still connected.

```
## redis.debug_mode
```

Boolean to enable debug mode and protocol tracing.

```
```js
var redis = require("redis"),
 client = redis.createClient();

redis.debug_mode = true;

client.on("connect", function () {
 client.set("foo_rand000000000000", "some fantastic value");
});
```
```

This will display:

```
mjr:~/work/node_redis (master)$ node ~/example.js
```

```
send command: *3
$3
SET
$20
foo_rand000000000000
$20
some fantastic value

on_data: +OK
```

`send command` is data sent into Redis and `on_data` is data received from Redis.

Multi-word commands

To execute redis multi-word commands like `SCRIPT LOAD` or `CLIENT LIST` pass the second word as first parameter:

```
client.script('load', 'return 1');
client.multi().script('load', 'return 1').exec(...);
client.multi(['script', 'load', 'return 1']).exec(...);
```

client.send_command(command_name, args, callback)

Used internally to send commands to Redis. For convenience, nearly all commands that are published on the Redis Wiki have been added to the `client` object. However, if I missed any, or if new commands are introduced before this library is updated, you can use `send_command()` to send arbitrary commands to Redis.

All commands are sent as multi-bulk commands. `args` can either be an Array of arguments, or omitted.

client.connected

Boolean tracking the state of the connection to the Redis server.

client.command_queue.length

The number of commands that have been sent to the Redis server but not yet replied to. You can use this to enforce some kind of maximum queue depth for commands while connected.

Don't mess with `client.command_queue` though unless you really know what you are doing.

client.offline_queue.length

The number of commands that have been queued up for a future connection. You can use this to enforce some kind of maximum queue depth for pre-connection commands.

client.retry_delay

Current delay in milliseconds before a connection retry will be attempted. This starts at `250`.

```
## client.retry_backoff
```

Multiplier for future retry timeouts. This should be larger than 1 to add more time between retries. Defaults to 1.7. The default initial connection retry is 250, so the second retry will be 425, followed by 723.5, etc.

```
### Commands with Optional and Keyword arguments
```

This applies to anything that uses an optional `[WITHSCORES]` or `[LIMIT offset count]` in the `[redis.io/commands]`(<http://redis.io/commands>) documentation.

Example:

```
```js
var args = ['myzset', 1, 'one', 2, 'two', 3, 'three', 99, 'ninety-nine'];
client.zadd(args, function (err, response) {
 if (err) throw err;
 console.log('added '+response+' items.');
```

```
 // -Infinity and +Infinity also work
 var args1 = ['myzset', '+inf', '-inf'];
 client.zrevrangebyscore(args1, function (err, response) {
 if (err) throw err;
 console.log('example1', response);
 // write your code here
 });

 var max = 3, min = 1, offset = 1, count = 2;
 var args2 = ['myzset', max, min, 'WITHSCORES', 'LIMIT', offset, count];
 client.zrevrangebyscore(args2, function (err, response) {
 if (err) throw err;
 console.log('example2', response);
 // write your code here
 });
});
```
```

```
## TODO
```

Better tests for auth, disconnect/reconnect, and all combinations thereof.

Stream large set/get values into and out of Redis. Otherwise the entire value must be in node's memory.

Performance can be better for very large values.

I think there are more performance improvements left in there for smaller values, especially for large lists of small values.

```
## How to Contribute
```

- open a pull request and then wait for feedback (if [DTrejo](http://github.com/dtrejo) does not get back to you within 2 days, comment again with indignation!)

Contributors

Some people have have added features and fixed bugs in `node_redis` other than me.

Ordered by date of first contribution.

[Auto-generated](http://github.com/dtrejo/node-authors) on Wed Jul 25 2012 19:14:59 GMT-0700 (PDT).

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Thanks.

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1.684 redis 0.7.3

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1.686 reflect 0.0.7

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![Reflect.js](https://github.com/zaach/reflect.js/raw/master/reflectjs.png "Reflect.js")

Reflect.js is a JavaScript (ES3 compatible) implementation of [Mozilla's Parser API](https://developer.mozilla.org/en/SpiderMonkey/Parser_API). It does not currently support some of Mozilla's extensions, such as generators, list comprehensions, `for each`, E4X, etc. but may eventually support ones that are, or become Harmony proposals.

Builders are also supported.

Parsing really large files can be slow, for reasons [articulated](http://www.andychu.net/ecmascript/RegExp-Enhancements.html) by Andy Chu.

Download

=====

You can download a minified-standalone version of reflect.js to embed in web pages [here](https://raw.githubusercontent.com/zaach/reflect.js/master/standalone/reflect.js).

Install

=====

Reflect.js is available as a CommonJS module for Node.js. Simply install it with npm:

```
npm install reflect
```

Use

=====

```
var Reflect = require('reflect');

var ast = Reflect.parse("var a = 4 + 7");

console.log(Reflect.stringify(ast, " "));
```

Refer to [Mozilla's docs](https://developer.mozilla.org/en/SpiderMonkey/Parser_API) for details on the AST interface.

Builders

=====

The optional [builder](https://developer.mozilla.org/en/SpiderMonkey/Parser_API#Builder_objects) parameter to Reflect.parse() makes it possible to construct user-specified data from the parser, rather than the default Node objects.

The reflect.js module exports the [default builder](https://raw.githubusercontent.com/zaach/reflect.js/master/lib/nodes.js) so you can redefine only the node constructors you care about and leave the rest default.

```
var Reflect = require('reflect');
var builder = Reflect.builder;
```

```
// redefine callback for variable declarations
builder["variableDeclaration"] = function (kind, declarators, loc) { ... };

var ast = Reflect.parse("var a = 4 + 7", {builder: builder});
```

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=====

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1.687 regexp-clone 0.0.1

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1.688 replace 0.2.9

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NO LICENSE INFORMATION AVAILABLE. Possible Contact (in addition to <https://www.npmjs.com>):

"author": "Heather Arthur <fayearthur@gmail.com>",

"url": "http://github.com/harthur/replace.git"

1.689 request 2.40.0

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1.699 requires-port 0.0.1

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1.700 resolve 0.7.4

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1.702 response-time 1.0.0

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Response Time

Response time middleware extracted from connect.

Usage:

```
```js
var responseTime = require('response-time');

app.use(responseTime());
```
```

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1.704 restler 2.0.1

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1.705 restler 3.2.0

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1.706 retry 0.6.1

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1.707 revalidator 0.1.8

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1.710 rndm 1.1.0

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    "email": "me@jongleberry.com",
    "url": "http://jongleberry.com",
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  },
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  "devDependencies": {
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    "istanbul": "0"
  },
  "repository": "crypto-utils/rndm",
  "scripts": {
    "test": "mocha",
    "test-cov": "istanbul cover node_modules/mocha/bin/_mocha -- --reporter dot",
    "test-travis": "istanbul cover node_modules/mocha/bin/_mocha --report lcovonly -- --reporter dot"
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    "number",
    "generator",
    "uid",
    "id"
  ],
  "files": [
    "index.js"
  ]
}
```

1.711 root-require 0.3.1

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1.713 ruby-augeas 0.5.0 :1.el7

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

```
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version 2.1 of the License, or (at your option) any later version.
```

```
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```


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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.714 ruby-shadow 1.4.1 :23.el7

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From RPM File Metadata:Public Domain

1.715 samsam 1.1.2

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1.716 sax 0.5.8

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```
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content="text/html; charset=UTF-8" /><meta name="generator" content="HTML Tidy for Mac OS X (vers 31
October 2006 - Apple Inc. build 13), see www.w3.org" /><title>W3C Software Notice and License</title><link
rel="stylesheet" href="/2008/site/css/minimum" type="text/css" media="handheld, all" /><style type="text/css"
media="print, screen and (min-width: 481px)" xml:space="preserve">
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</style><link href="/2008/site/css/minimum" rel="stylesheet" type="text/css" media="handheld, only screen and
(max-device-width: 480px)" /><meta name="viewport" content="width=device-width" /><link rel="stylesheet"
href="/2008/site/css/print" type="text/css" media="print" /><link rel="shortcut icon"
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class="w3c_public"><div id="w3c_container">

  <div id="w3c_mast">
    <h1 class="logo">
      <a tabindex="2" accesskey="1" href="/"></a>
      <span class="alt-logo">W3C</span>
    </h1>

    <div id="w3c_nav">

      <form action="/Help/search" method="get" enctype="application/x-www-form-urlencoded"><div
class="w3c_sec_nav"><!-- --></div><ul class="main_nav"><li class="first-item">
        <a href="/standards/">Standards</a>
      </li></li>
```

```

        <a href="/participate/">Participate</a>
    </li><li>
        <a href="/Consortium/membership">Membership</a>
    </li><li class="last-item">
        <a href="/Consortium/">About W3C</a>
    </li><li class="search-item">
        <div id="search-form">
            <input tabindex="3" class="text" name="q" value="" title="Search" type="text" />
            <button id="search-submit" name="search-submit" type="submit"></button>
        </div>
    </li></ul></form>
</div>

</div>

<div id="w3c_main">
    <div id="w3c_logo_shadow" class="w3c_leftCol">
        
    </div>

    <div class="w3c_leftCol"><h2 class="offscreen">Site Navigation</h2>
    <h3 class="category"><span class="ribbon"><a href="/Consortium/Legal/ipr-notice.html" title="Up to Policies
and Legal Information">Policies and Legal Information </a></span></h3>
    <ul class="theme">
        <li><a href="/Consortium/Legal/2008/04-testsuite-copyright.html">Licenses for W3C Test Suites</a></li>
        <li><a href="/2004/10/27-testcases.html">Policies for Contribution of Test Cases to W3C</a></li>
        <li><a href="/Consortium/Legal/IPR-FAQ-20000620.html">Intellectual Rights FAQ</a></li>
        <li><a href="/Consortium/Legal/privacy-statement-20000612.html">W3C Privacy Statements</a></li>
        <li><a href="/Consortium/Legal/2002/copyright-documents-20021231.html">W3C Document
License</a></li>
        <li><a href="/Consortium/Legal/2002/trademarks-20021231.html">W3C Trademarks and Generic
Terms</a></li>
        <li><a href="/Consortium/Legal/2002/trademark-license-20021231.html">W3C&#xAE; Trademark and
Service Mark License</a></li>
        <li><a class="current">W3C Software Notice and License</a></li>
        <li><a href="/Consortium/Legal/2002/collaborators-agreement-20021231.html">W3C Invited Expert and
Collaborators Agreement</a></li>
        <li><a href="/Consortium/Persistence.html">W3C URI Persistence Policy</a></li>
        <li><a href="/1999/10/21-mirroring-policy.html">Mirroring the W3C Site</a></li>
        <li><a href="/Consortium/Legal/2006/08-copyright-translations.html">Translations of the Copyright
Notice</a></li>
    </ul>
    <br /></div>
    <div class="w3c_mainCol">
        <div id="w3c_crumbs">

```

```
<div id="w3c_crumbs_frame">
  <ul class="bct"> <!-- .bct / Breadcrumbs -->
    <li class="skip"><a tabindex="1" accesskey="2" title="Skip to content (e.g., when browsing via audio)"
href="#w3c_content_body">Skip</a></li>
    <li><a href="/">W3C</a>&#xA0;<span class="cr">&#xBB;</span>&#xA0;</li>
    <li><a href="/Consortium/">>About&#xA0;W3C</a>&#xA0;<span class="cr">&#xBB;</span>&#xA0;</li>
    <li><a href="/Consortium/facts.html">Facts&#xA0;About&#xA0;W3C</a>&#xA0;<span
class="cr">&#xBB;</span>&#xA0;</li>
    <li><a href="/Consortium/Legal/ipr-
notice.html">Policies&#xA0;and&#xA0;Legal&#xA0;Information</a>&#xA0;<span
class="cr">&#xBB;</span>&#xA0;</li>
    <li class="current">W3C Software Notice and License</li>
  </ul>
</div>
</div>
```

W3C Software Notice and License

```
<div id="w3c_content_body">
```

```
<div class="line">
```

<p class="intro tPadding">This work (and included software, documentation such as READMEs, or other related items) is being provided by the copyright holders under the following license.</p>
<h2>License</h2>

```
<p class="tPadding">
```

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</div>

</div>

</div>

</div>

</div><div id="w3c_footer">

<div id="w3c_footer-inner">

<h2 class="offscreen">Footer Navigation</h2>

<div class="w3c_footer-nav">

<h3>Navigation</h3>

<ul class="footer_top_nav">

Home

Standards

```

</li><li>
  <a href="/participate/">Participate</a>
</li><li>
  <a href="/Consortium/membership">Membership</a>
</li><li class="last-item">
  <a href="/Consortium/">About W3C</a>
</li></ul>
</div>
<div class="w3c_footer-nav">
  <h3>Contact W3C</h3>
  <ul class="footer_bottom_nav"><li>
    <a href="/Consortium/contact">Contact</a>
  </li><li>
    <a accesskey="0" href="/Help/">Help and FAQ</a>
  </li><li>
    <a href="/Consortium/sponsor/">Sponsor / Donate</a>
  </li><li>
    <a href="/Consortium/siteindex">Site Map</a>
  </li><li>
    <address id="w3c_signature">
      <a href="http://lists.w3.org/Archives/Public/site-comments/">Feedback</a></address>
    </li></ul>
</div>
<div class="w3c_footer-nav">
  <h3>W3C Updates</h3>
  <ul class="footer_follow_nav"><li>
    <a href="http://twitter.com/W3C" title="Follow W3C on Twitter">
      
    </a>
    <a href="http://identi.ca/w3c" title="See W3C on Identica">
      
    </a>
  </li></ul>
</div>
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href="http://www.csail.mit.edu/">
  <acronym title="Massachusetts Institute of Technology">MIT</acronym>
</a>, <a href="http://www.ercim.org/">
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apply</a>.</p>
</div>
</div><!-- Generated from data/scripts.php, ../smarty/{scripts.tpl} --><!-- At the bottom for performance
reasons --><div id="w3c_scripts">
  <script type="text/javascript" src="/2008/site/js/main" xml:space="preserve"><!-- --></script>
</div></body></html>

```

1.717 sax 0.6.1

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1.718 sax 0.3.5

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1.719 scmp 1.0.0

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1.720 scp2 0.1.4

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scp2

A pure javascript secure copy program based on ssh2.

scp2 is greatly powered by [ssh2](<https://github.com/mscdex/ssh2>), implemented the `scp` in a `sftp` way.

It is written in pure javascript, and should work on every OS, even Windows. Nodejs (v0.8.7 or newer) is required to make it work.

Install

You can either use it as a library, or a program. For Windows users who miss scp on unix/linux world, you can get the command line now:

```
$ npm install scp2 -g
```

You will get a command line tool `scp2`, and let's try:

```
$ scp2 -h
```

Get the development version from ninja channel:

```
$ npm install scp2@ninja
```

High level API

Get the client:

```
```js
var client = require('scp2')
```
```

Copy a file to the server:

```
```js
client.scp('file.txt', 'admin:password@example.com:/home/admin/', function(err) {
})
```
```

Copy a file to the server in another way:

```
```js
client.scp('file.txt', {
 host: 'example.com',
 username: 'admin',
 password: 'password',
 path: '/home/admin/'
}, function(err) { })
```
```

Copy a file to the server and rename it:

```
```js
client.scp('file.txt', 'admin:password@example.com:/home/admin/rename.txt', function(err) {
})
```
```

Copy a directory to the server:

```
```js
client.scp('data/', 'admin:password@example.com:/home/admin/data/', function(err) {
```

```
)
...

```

Copy via glob pattern:

```
```js  
client.scp('data/*.js', 'admin:password@example.com:/home/admin/data/', function(err) {  
})  
...  

```

Download a file from server:

```
```js  
client.scp('admin:password@example.com:/home/admin/file.txt', './', function(err) {
})
...

```

Download a file from server in another way:

```
```js  
client.scp({  
  host: 'example.com',  
  username: 'admin',  
  password: 'password',  
  path: '/home/admin/file.txt'  
}, './', function(err) {})  
...  

```

****TODO****: download via glob pattern.

Low level API

Get the client:

```
```js  
var Client = require('scp2').Client;
...

```

The high level client is an instance of `Client`, but it contains the high level API `scp`.

### ### Methods

- **\*\*defaults\*\*** `function({})`

set the default values for the remote server.

```

```js
client.defaults({
  port: 22,
  host: 'example.com',
  username: 'admin',
  privateKey: '....'
});
```

```

You can also initialize the instance with these values:

```

```js
var client = new Client({
  port: 22
});
```

```

More on the values at [ssh2](https://github.com/mscdex/ssh2).

```
- sftp function(callback) -> callback(err, sftp)
```

Get the sftp.

```
- close function()
```

Close all sessions.

```
- mkdir function(dir, [attr], callback) -> callback(err)
```

Make a directory on the remote server. It behaves like `mkdir -p`.

```
- write function(options, callback) -> callback(err)
```

Write content on the remote server.

```

```js
client.write({
  destination: '/home/admin/data/file.txt',
  content: 'hello world'
}, callback)
```

```

The options can contain:

- destination
- content: string or buffer
- attrs

- source: the source path, e.g. local/file.txt

```
- upload function(src, dest, callback) -> callback(err)
```

upload a local file to the server.

```
```js
client.upload('file.txt', '/home/admin/file.txt', callback)
```
```

```
- download function(src, dest, callback) -> callback(err)
```

download a server file to local.

## ## Events

You can listen on these events:

- connect
- ready
- error (err)
- end
- close
- mkdir (dir)
- write (object)
- read (src)
- transfer (buffer, uploaded, total)

## ## Changelog

**2013-11-07** `0.1.4` ~stable

### 1. Bugfix

**2013-06-04** `0.1.3` ~stable

### 1. Fixed mkdir mode bug

**2013-06-04** `0.1.2` ~stable

### 1. Fixed for uploading a large file (beyond the limitation of fs.readFile)

### 2. Event emit for `transfer`

**2013-06-03** `0.1.1` ~stable

### 1. Bugfix for scp a large file.

**\*\*2013-03-08\*\*** `0.1.0` ~ stable

1. remove the require of buffer, `Buffer` is on global

**\*\*2013-03-07\*\*** `0.1.0b1` ~ ninja

1. show version options on binary
2. bugfix of upload, it should mkdir right

**\*\*2013-03-06\*\*** `0.1.0a3` ~ ninja

1. Fix path bug on windows.
2. Pretty output log.

**\*\*2013-03-06\*\*** `0.1.0a2` ~ ninja

1. Download a file from server works.
2. Documentation on this lib.

**\*\*2013-03-05\*\*** `0.1.0a1` ~ ninja

1. Init the program, take the name scp2 in npmjs.org.
2. scp to server works.

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## 1.722 send 0.2.0

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# send

Send is Connect's `static()` extracted for generalized use, a streaming static file server supporting partial responses (Ranges), conditional-GET negotiation, high test coverage, and granular events which may be leveraged to take appropriate actions in your application or framework.

## Installation

```
$ npm install send
```

## Examples

Small:

```

```js
var http = require('http');
var send = require('send');

var app = http.createServer(function(req, res){
  send(req, req.url).pipe(res);
}).listen(3000);
```

```

Serving from a root directory with custom error-handling:

```

```js
var http = require('http');
var send = require('send');
var url = require('url');

var app = http.createServer(function(req, res){
  // your custom error-handling logic:
  function error(err) {
    res.statusCode = err.status || 500;
    res.end(err.message);
  }

  // your custom directory handling logic:
  function redirect() {
    res.statusCode = 301;
    res.setHeader('Location', req.url + '/');
    res.end('Redirecting to ' + req.url + '/');
  }

  // transfer arbitrary files from within
  // /www/example.com/public/*
  send(req, url.parse(req.url).pathname)
  .root('/www/example.com/public')
  .on('error', error)
  .on('directory', redirect)
  .pipe(res);
}).listen(3000);
```

```

## API

### Events

- `error` an error occurred `(err)`
- `directory` a directory was requested
- `file` a file was requested `(path, stat)`
- `stream` file streaming has started `(stream)`



- `end` streaming has completed

### .root(dir)

Serve files relative to `path`. Aliased as `.from(dir)`.

### .index(path)

By default send supports "index.html" files, to disable this invoke `.index(false)` or to supply a new index pass a string.

### .maxage(ms)

Provide a max-age in milliseconds for http caching, defaults to 0.

### .hidden(bool)

Enable or disable transfer of hidden files, defaults to false.

## Error-handling

By default when no `error` listeners are present an automatic response will be made, otherwise you have full control over the response, aka you may show a 5xx page etc.

## Caching

It does not perform internal caching, you should use a reverse proxy cache such as Varnish for this, or those fancy things called CDNs. If your application is small enough that it would benefit from single-node memory caching, it's small enough that it does not need caching at all ;).

## Debugging

To enable `debug()` instrumentation output export `__DEBUG__`:

...

```
$ DEBUG=send node app
```

...

## Running tests

...

```
$ npm install
```

```
$ make test
```

...

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# send

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## Installation

```
$ npm install send
```

## Examples

Small:

```
```js
var http = require('http');
var send = require('send');

var app = http.createServer(function(req, res){
  send(req, req.url).pipe(res);
}).listen(3000);
```
```

Serving from a root directory with custom error-handling:

```
```js
var http = require('http');
var send = require('send');
var url = require('url');

var app = http.createServer(function(req, res){
  // your custom error-handling logic:
  function error(err) {
    res.statusCode = err.status || 500;
    res.end(err.message);
  }

  // your custom directory handling logic:
  function redirect() {
    res.statusCode = 301;
    res.setHeader('Location', req.url + '/');
    res.end('Redirecting to ' + req.url + '/');
  }
});
```
```

```

}

// transfer arbitrary files from within
// /www/example.com/public/*
send(req, url.parse(req.url).pathname, {root: '/www/example.com/public'})
.on('error', error)
.on('directory', redirect)
.pipe(res);
}).listen(3000);
```

```

API

Options

etag

Enable or disable etag generation, defaults to true.

hidden

Enable or disable transfer of hidden files, defaults to false.

index

By default send supports "index.html" files, to disable this set `false` or to supply a new index pass a string or an array in preferred order.

maxage

Provide a max-age in milliseconds for http caching, defaults to 0.

root

Serve files relative to `path`.

Events

- `error` an error occurred `(err)`
- `directory` a directory was requested
- `file` a file was requested `(path, stat)`
- `stream` file streaming has started `(stream)`
- `end` streaming has completed

.etag(bool)

Enable or disable etag generation, defaults to true.

.root(dir)

Serve files relative to `path`. Aliased as `.from(dir)`.

.index(paths)

By default send supports "index.html" files, to disable this invoke `.index(false)` or to supply a new index pass a string or an array in preferred order.

.maxage(ms)

Provide a max-age in milliseconds for http caching, defaults to 0.

.hidden(bool)

Enable or disable transfer of hidden files, defaults to false.

Error-handling

By default when no `error` listeners are present an automatic response will be made, otherwise you have full control over the response, aka you may show a 5xx page etc.

Caching

It does not perform internal caching, you should use a reverse proxy cache such as Varnish for this, or those fancy things called CDNs. If your application is small enough that it would benefit from single-node memory caching, it's small enough that it does not need caching at all ;).

Debugging

To enable `debug()` instrumentation output export `__DEBUG__`:

```
$ DEBUG=send node app
```

Running tests

```
$ npm install
```

```
$ make test
```

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send

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Installation

```
$ npm install send
```

Examples

Small:

```
```js
var http = require('http');
var send = require('send');

var app = http.createServer(function(req, res){
 send(req, req.url).pipe(res);
});
```
```

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```
```js
var http = require('http');
var send = require('send');

var app = http.createServer(function(req, res){
 // your custom error-handling logic:
 function error(err) {
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 }

 // your custom directory handling logic:
 function redirect() {
 res.statusCode = 301;
 res.setHeader('Location', req.url + '/');
 res.end('Redirecting to ' + req.url + '/');
 }

 // transfer arbitrary files from within
 // /www/example.com/public/*
 send(req, url.parse(req.url).pathname)
 .root('/www/example.com/public')
 .on('error', error)
 .on('directory', redirect)
 .pipe(res);
});
```
```

API

Events

- `error` an error occurred `(err)`
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Serve files relative to `path`. Aliased as `.from(dir)`.

.index(path)

By default send supports "index.html" files, to disable this invoke `.index(false)` or to supply a new index pass a string.

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...  
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...
```

Running tests

```
...  
$ npm install  
$ make test  
...
```

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1.743 should 3.1.3

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should.js

`__should__` is an expressive, readable, test framework agnostic, assertion library. Main goals of this library `__to be expressive__` and `__to be helpful__`. It keeps your test code clean, and your error messages helpful.

It extends the ``Object.prototype`` with a single non-enumerable getter that allows you to express how that object

should behave, also it returns itself when required with `require`.

```
## Example
```javascript
var should = require('should');

var user = {
 name: 'tj'
, pets: ['tobi', 'loki', 'jane', 'bandit']
};

user.should.have.property('name', 'tj');
user.should.have.property('pets').with.lengthOf(4);

// if the object was created with Object.create(null)
// then it doesn't inherit `Object` and have the `should` getter
// so you can do:

should(user).have.property('name', 'tj');
should(true).ok;

someAsyncTask(foo, function(err, result){
 should.not.exist(err);
 should.exist(result);
 result.bar.should.equal(foo);
});
```

## To begin
```

1. Install it:

```
```bash
$ npm install should --save-dev
```
```

2. Require it and use:

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

(5).should.be.exactly(5).and.be.a.Number;
```
```

In browser

If you want to use `_should_` in browser, use the `should.js` file in the root of this repository, or build it yourself. It is built with browserify (see [Makefile](https://github.com/visionmedia/should.js/blob/master/Makefile)). To build a fresh version:

```
```bash
you should have browserify
$ npm install -g browserify
$ make browser
```
```

The script is exported to `window.Should`. It is the same as using `should` statically:

```
```js
Should(5).be.exactly(5)
```
```

Also, in the case of `node.js`, `Object.prototype` is extended with `should` (hence the capital S in `window.Should`):

```
```js
window.should.be.exactly(window);
// the same
// window is host object
should.be.exactly(window);
// you should not really care about it

(5).should.be.exactly(5);
```
```

`*should.js*` uses EcmaScript 5 very extensively so any browser that support ES5 is supported. (IE <=8 not supported).

See [kangax's compat table](<http://kangax.github.io/es5-compat-table>) to know which exactly.

You can easy install it with npm or bower:

```
```
npm install should --save-dev
or
bower install visionmedia/should.js
```
```

Static should and assert module

For some rare cases should can be used statically, without `Object.prototype`.

It can be a replacement for the node assert module:

```
```javascript
assert.fail(actual, expected, message, operator) // just write wrong should assertion
assert(value, message), assert.ok(value, [message]) // should(value).ok
assert.equal(actual, expected, [message]) // should(actual).eql(expected, [message])
assert.notEqual(actual, expected, [message]) // should(actual).not.eql(expected, [message])
assert.deepEqual(actual, expected, [message]) // should(actual).eql(expected, [message])
assert.notDeepEqual(actual, expected, [message]) // should(actual).not.eql(expected, [message])
```
```

```
assert.strictEqual(actual, expected, [message]) // should(actual).equal(expected, [message])
assert.notStrictEqual(actual, expected, [message]) // should(actual).not.equal(expected, [message])
assert.throws(block, [error], [message]) // should(block).throw([error])
assert.doesNotThrow(block, [message]) // should(block).not.throw([error])
assert.ifError(value) // should(value).Error (to check if it is error) or should(value).not.ok (to check that it is falsy)
...

```

```
## .not
```

`.not`` negate current assertion.

```
# Assertions
```

```
## chaining assertions
```

Every assertion will return a `should.js`-wrapped Object`, so assertions can be chained.

To help chained assertions read more clearly, you can use the following helpers anywhere in your chain: `.an``, `.of``, `.a``, `.and``, `.be``, `.have``, `.with``, `.is``, `.which``. Use them for better readability; they do nothing at all.

For example:

```
```js
user.should.be.an.instanceOf(Object).and.have.property('name', 'tj');
user.pets.should.be.instanceof(Array).and.have.lengthOf(4);
...

```

Almost all assertions return the same object - so you can easy chain them. But some (eg: `.length`` and `.property``) move the assertion object to a property value, so be careful.

```
.ok
```

Assert if chained object is truthy in javascript (ie: not "", null, undefined, 0, NaN).

Assert truthfulness:

```
```javascript
true.should.be.ok;
'ay'.should.be.ok;
(1).should.be.ok;
({}).should.be.ok;
...

```

or negated:

```
```javascript
false.should.not.be.ok;
"".should.not.be.ok;
(0).should.not.be.ok;
...

```

**\*Warning:\*** No assertions can be done on null and undefined.

e.g.

```
```js
undefined.should.not.be.ok;
```
```

will give you `Uncaught TypeError: Cannot read property 'should' of undefined`.

## .true

Assert if chained object === true:

```
```javascript
true.should.be.true;
'1'.should.not.be.true;
```
```

## .false

Assert if chained object === false:

```
```javascript
false.should.be.false;
(0).should.not.be.false;
```
```

## .eql(otherValue)

Assert if chained object is *equal* to otherValue. The object is compared by its actual content, not just reference equality.

```
```javascript
({ foo: 'bar' }).should.eql({ foo: 'bar' });
[1,2,3].should.eql([1,2,3]);
// see next example it is correct, even if it is different types, but actual content the same
[1, 2, 3].should.eql({ '0': 1, '1': 2, '2': 3 });
```
```

## .equal(otherValue) and .exactly(otherValue)

Assert if chained object is strictly equal to `otherValue` (using `===` - no type conversion for primitive types and reference equivalence for reference types).

```
```javascript
(4).should.equal(4);
'test'.should.equal('test');
[1,2,3].should.not.equal([1,2,3]);
(4).should.be.exactly(4);
```
```

## .startsWith(str)

Assert that a string starts with `str`.

```
```javascript
'foobar'.should.startWith('foo');
'foobar'.should.not.startWith('bar');
```

.endsWith(str)
```

Assert that a string ends with `str`.

```
```javascript
'foobar'.should.endsWith('bar');
'foobar'.should.not.endsWith('foo');
```
```

```
.within(from, to)
```

Assert inclusive numeric range (`<= to` and `>= from`):

```
```javascript
user.age.should.be.within(5, 50);
(5).should.be.within(5, 10).and.within(5, 5);
```
```

```
.approximately(num, delta)
```

Assert floating point number near `num` within `delta` margin:

```
```javascript
(99.99).should.be.approximately(100, 0.1);
```
```

```
.above(num) and .greaterThan(num)
```

Assert numeric value above the given value (`> num`):

```
```javascript
user.age.should.be.above(5);
user.age.should.not.be.above(100);
(5).should.be.above(0);
(5).should.not.be.above(5);
```
```

```
.below(num) and .lessThan(num)
```

Assert numeric value below the given value (`< num`):

```
```javascript
user.age.should.be.below(100);
```
```



```
user.age.should.not.be.below(5);
(5).should.be.below(6);
(5).should.not.be.below(5);
```
```

.NaN

Assert numeric value is NaN:

```
```javascript
(undefined + 0).should.be.NaN;
```
```

.Infinity

Assert numeric value is Infinity:

```
```javascript
(1/0).should.be.Infinity;
```
```

.type(str)

Assert given object is of a particular type (using `__typeof__` operator):

```
```javascript
user.should.be.type('object');
'test'.should.be.type('string');
```
```

.instanceof(constructor) and .instanceOf(constructor)

Assert given object is an instance of ``constructor`` (using `__instanceof__` operator):

```
```javascript
user.should.be.an.instanceof(User);
[].should.be.an.instanceOf(Array);
```
```

.arguments

Assert given object is an ``Arguments``:

```
```javascript
var args = (function(){ return arguments; })(1,2,3);
args.should.be.arguments;
[].should.not.be.arguments;
```
```

.Object, .Number, .Array, .Boolean, .Function, .String, .Error

Assert given object is instance of the given constructor (shortcut for ``.instanceof`` assertion).

```
```javascript
({}).should.be.an.Object;
(1).should.be.a.Number;
[].should.be.an.Array.and.an.Object;
(true).should.be.a.Boolean;
".should.be.a.String;
```
```

.property(name[, value])

Assert property exists and has optional value (compare using ``.eql``):

```
```javascript
user.should.have.property('name');
user.should.have.property('age', 15);
user.should.not.have.property('rawr');
user.should.not.have.property('age', 0);
[1, 2].should.have.property('0', 1);
```
```

`__NB__``.property` changes the chain's object to the given property's value, so be careful when chaining after `.property`!`

.properties(propName1, propName2, ...) or .properties([propName1, propName2, ...]) or .properties(obj)

``.obj`` should be an object that maps properties to their actual values.

Assert all given properties exist and have given values (compare using ``.eql``):

```
```javascript
user.should.have.properties('name', 'age');
user.should.have.properties(['name', 'age']);
user.should.have.properties({
 name: 'denis',
 age: 24
});
```
```

.length(number) and .lengthOf(number)

Assert ``.length`` property exists and has a value of the given number (shortcut for ``.property('length', number)``):

```
```javascript
user.pets.should.have.length(5);
user.pets.should.have.a.lengthOf(5);
({ length: 10}).should.have.length(10);
```
```

...

`__NB__` .length` and ` .lengthOf` change the chain's object to the given length value, so be careful when chaining!`

`## .ownProperty(str) and .hasOwnProperty(str)`

Assert given object has own property (using `` .hasOwnProperty``):

```
```javascript
({ foo: 'bar' }).should.have.ownProperty('foo').equal('bar');
```
```

`__NB__` .ownProperty` and ` .hasOwnProperty` change the chain's object to the given property value, so be careful when chaining!`

`## .empty`

Assert given value is empty. Strings, arrays, arguments with a length of 0, and objects without their own properties, are considered empty.

```
```javascript
[].should.be.empty;
''.should.be.empty;
({}).should.be.empty;
(function() {
 arguments.should.be.empty;
})();
```
```

`## .keys([key1, key2, ...]) and .keys(key1, key2, ...) and .key(key)`

Assert own object keys, which must match `_exactly_`, and will fail if you omit a key or two:

```
```javascript
var obj = { foo: 'bar', baz: 'raz' };
obj.should.have.keys('foo', 'baz');
obj.should.have.keys(['foo', 'baz']);
({}).should.have.keys();
({}).should.have.keys('key'); //fail AssertionError: expected {} to have key 'key'missing keys: 'key'
```
```

`### .containEql(otherValue)`

Assert given value to contain something `*.eql*` to otherValue. See examples to understand better:

```
```javascript
'hello boy'.should.containEql('boy');
[1,2,3].should.containEql(3);
```
```

```

[[1],[2],[3]].should.containEq([3]);
[[1],[2],[3, 4]].should.not.containEq([3]);

({ b: 10 }).should.containEq({ b: 10 });
([1, 2, { a: 10 }]).should.containEq({ a: 10 });
[1, 2, 3].should.not.containEq({ a: 1 });

[{a: 'a'}, {b: 'b', c: 'c'}].should.containEq({a: 'a'});
[{a: 'a'}, {b: 'b', c: 'c'}].should.not.containEq({b: 'b'});
...

```

.containDeep(otherValue)

Assert given value to contain something *.eql* to otherValue within depth.
Again see examples:

```

```javascript
'hello boy'.should.containDeep('boy');
[1,2,3].should.containDeep([3]);
[1,2,3].should.containDeep([1, 3]);
//but not
[1,2,3].should.containDeep([3, 1]);

({ a: { b: 10 }, b: { c: 10, d: 11, a: { b: 10, c: 11 } } }).should
.containDeep({ a: { b: 10 }, b: { c: 10, a: { c: 11 } } });

[1, 2, 3, { a: { b: { d: 12 } } }].should.containDeep([{ a: { b: { d: 12 } } }]);

[[1],[2],[3]].should.containDeep([[3]]);
[[1],[2],[3, 4]].should.containDeep([[3]]);
[{a: 'a'}, {b: 'b', c: 'c'}].should.containDeep([{a: 'a'}]);
[{a: 'a'}, {b: 'b', c: 'c'}].should.containDeep([{b: 'b'}]);
...

```

It does not search somewhere in depth it check all pattern in depth. Objects are checked by properties key and value; arrays are checked like sub sequences. Everyting is compared using `eql`. Main difference with `containEq` is that this assertion requires full type chain - if asserted value is an object, otherValue should be also an object (which is sub object of given). The same is true for arrays, otherValue should be an array which compared to be subsequence of given object.

## .match(otherValue)

Assert given object matches `otherValue`.

Given: String, otherValue: regexp. Uses `RegExp#exec(str)`:

```

```javascript
username.should.match(/^\w+$/)
...

```

Given: Array, otherValue: regexp - assert each value match to regexp.

```
```javascript
['a', 'b', 'c'].should.match(/[a-z]/);
['a', 'b', 'c'].should.not.match(/[d-z]/);
```
```

Given: Object, otherValue: regexp - assert own property's values to match regexp.

```
```javascript
({ a: 'foo', c: 'barfoo' }).should.match(/foo$/);
({ a: 'a' }).should.not.match(/^http/);
```
```

Given: Anything, otherValue: function - assert if given value matched to function.

Function can use `.should`` inside or return 'true' or 'false', in all other cases it do nothing. If you return value that return assertion, you will receive better error messages.

```
```javascript
(5).should.match(function(n) { return n > 0; });
(5).should.not.match(function(n) { return n < 0; });
(5).should.not.match(function(it) { it.should.be.an.Array; });
(5).should.match(function(it) { return it.should.be.a.Number; });
```
```

Now compare messages:

```
```javascript
(5).should.not.match(function(it) { it.should.be.a.Number; });
//AssertionError: expected 5 not to match [Function]
(5).should.not.match(function(it) { return it.should.be.a.Number; });
//AssertionError: expected 5 not to match [Function]
// expected 5 to be a number
```
```

Given: object, otherValue: another object - assert that object properties match to properties of another object in meaning that describe above cases. See examples:

```
```javascript
({ a: 10, b: 'abc', c: { d: 10 }, d: 0 }).should
 .match({ a: 10, b: /c$/, c: function(it) { return it.should.have.property('d', 10); }});

[10, 'abc', { d: 10 }, 0].should
 .match({ '0': 10, '1': /c$/, '2': function(it) { return it.should.have.property('d', 10); } });

[10, 'abc', { d: 10 }, 0].should
 .match([10, /c$/, function(it) { return it.should.have.property('d', 10); }]);
```
```

.matchEach(otherValue)

Assert given property keys and values each match given check object.

If `otherValue` is RegExp, then each property value checked to match it:

```
```javascript
(['a', 'b', 'c']).should.matchEach(/[a-c]/);
```
```

If `otherValue` is Function, then check each property value and key matched it:

```
```javascript
[10, 11, 12].should.matchEach(function(it) { return it >= 10; });
[10, 11, 12].should.matchEach(function(it) { return it >= 10; });
```
```

In other cases it checks that each property value is `.eql` to `otherValue`:

```
```javascript
[10, 10].should.matchEach(10);
```
```

.throw() and throwError()

Assert an exception is thrown:

```
```js
(function(){
 throw new Error('fail');
}).should.throw();
```
```

Assert an exception is not thrown:

```
```js
(function(){

}).should.not.throw();
```
```

Assert exception message matches string:

```
```js
(function(){
 throw new Error('fail');
}).should.throw('fail');
```
```

Assert exception message matches regexp:

```
```js
(function(){
```

```

 throw new Error('failed to foo');
 }).should.throw(/^fail/);
 ...

```

If you need to pass arguments and/or context to execute function use `Function#bind(context, arg1, ...)`:

```

```js
function isPositive(n) {
  if(n <= 0) throw new Error('Given number is not positive')
}

isPositive.bind(null, 10).should.not.throw();
isPositive.bind(null, -10).should.throw();
...

```

If you need to check something in an asynchronous function, you must do it in 2 steps:

```

```js
// first we need to check that function is called
var called = false;
collection.findOne({ _id: 10 }, function(err, res) {
 called = true;

 //second we test what you want
 res.should.be....
});

called.should.be.true;
...

```

In case you are using something like `Mocha`, you should use an asynchronous test, and call `done()` in the proper place to make sure that your asynchronous function is called before the test finishes.

```

```js
collection.findOne({ _id: 10 }, function(err, res) {
  if(err) return done(err);
  //second we test what you want
  res.should.be....

  done();
});
...

```

In general, if you need to check that something is executed, you are best using `spies`. A good example is `[sinon](http://sinonjs.org/)`.

```
## .status(code)
```

Asserts that `.statusCode` is `code`:

```
```javascript
```

```
res.should.have.status(200);
...

```

Not included in browser build.

## .header(field[, value])

Asserts that a `.headers` object with `field` and optional `value` are present:

```
```javascript  
res.should.have.header('content-length');  
res.should.have.header('Content-Length', '123');  
...  

```

Not included in browser build.

.json

Assert that Content-Type is "application/json; charset=utf-8"

```
```javascript  
res.should.be.json
...

```

Not included in browser build.

## .html

Assert that Content-Type is "text/html; charset=utf-8"

```
```javascript  
res.should.be.html  
...  

```

Not included in browser build.

Optional Error description

As it can often be difficult to ascertain exactly where failed assertions are coming from in your tests, an optional description parameter can be passed to several should matchers. The description will follow the failed assertion in the error:

```
(1).should.eql(0, 'some useful description')
```

```
AssertionError: some useful description  
  at Object.eql (/Users/swift/code/should.js/node_modules/should/lib/should.js:280:10)  
  ...  

```

The methods that support this optional description are: `eql`, `equal`, `within`, `instanceof`, `above`, `below`, `match`, `length`, `property`, `ownProperty`.

Mocha example

For example you can use `should` with the [Mocha test framework](http://visionmedia.github.io/mocha/) by simply including it:

```
````javascript
var should = require('should');
var mylib = require('mylib');

describe('mylib', function() {
 it('should have a version with the format #.#.#', function() {
 lib.version.should.match(/^\d+\.\d+\.\d+$/);
 });
});
````
```

Contributions

[Actual list of contributors](https://github.com/visionmedia/should.js/graphs/contributors) if you want to show it your friends.

To run the tests for `_should_` simply run:

```
$ make test
```

Before contribute something:

1. Your code should look like all the other code - this project should look like it was written by one man, always.
2. If you want propose something - just create an issue and describe your question with as much description as you can.
3. Please never send issues or pull requests about code style, jshint violations etc - I do not accept it (and you will spend your time for free).
4. If you think you have some general improvement, consider creating a pull request with it.
5. If you are not sure whether your improvement is general enough, just create your own plugin for `should.js`. (see `should.use` and `Assertion.add` usage).
6. If you add new code, it should be covered by tests. No tests - no code.
7. If you find bug (or at least you think it is a bug), create an issue with the library version and test case that I can run and see what are you talking about, or at least full steps by which I can reproduce it.

OMG IT EXTENDS OBJECT????!?!@

Yes, yes it does, with a single getter `_should_`, and no it won't break your code, because it does this ****properly**** with a non-enumerable property.

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1.746 simplesets 1.2.0

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"author": "Peter Scott <pjscott@iastate.edu>",

"repository": {"type": "git", "url": "http://github.com/PeterScott/simplesets-nodejs.git"},

1.747 sinon 1.14.1

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1.748 sleep 1.1.3

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```
"author": "Erik Dubbelboer <erik@dubbelboer.com>",  
"url": "https://github.com/ErikDubbelboer/node-sleep.git"  
"url": "https://github.com/ErikDubbelboer/node-sleep.git"
```

1.749 sliced 0.0.4

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

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1.756 socket.io-client 0.9.16

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/**

* socket.io

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1.757 socket.io-client 0.9.17

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socket.io

=====

Sockets for the rest of us

The `socket.io` client is basically a simple HTTP Socket interface implementation. It looks similar to WebSocket while providing additional features and leveraging other transports when WebSocket is not supported by the user's browser.

```
```js
var socket = io.connect('http://domain.com');
socket.on('connect', function () {
 // socket connected
});
socket.on('custom event', function () {
 // server emitted a custom event
});
socket.on('disconnect', function () {
 // socket disconnected
});
socket.send('hi there');
```
```

Recipes

Utilizing namespaces (ie: multiple sockets)

If you want to namespace all the messages and events emitted to a particular endpoint, simply specify it as part of the `connect` uri:

```
```js
var chat = io.connect('http://localhost/chat');
chat.on('connect', function () {
 // chat socket connected
});

var news = io.connect('/news'); // io.connect auto-detects host
```



```
news.on('connect', function () {
 // news socket connected
});
...

```

#### #### Emitting custom events

To ease with the creation of applications, you can emit custom events outside of the global `message` event.

```
```js
var socket = io.connect();
socket.emit('server custom event', { my: 'data' });
...

```

Forcing disconnection

```
```js
var socket = io.connect();
socket.on('connect', function () {
 socket.disconnect();
});
...

```

#### ### Documentation

##### #### io#connect

```
```js
io.connect(uri, [options]);
...

```

Options:

- **resource**

socket.io

The resource is what allows the `socket.io` server to identify incoming connections by `socket.io` clients. In other words, any HTTP server can implement socket.io and still serve other normal, non-realtime HTTP requests.

- **transports**

```
```js
['websocket', 'flashsocket', 'htmlfile', 'xhr-multipart', 'xhr-polling', 'jsonp-polling']
...

```

A list of the transports to attempt to utilize (in order of preference).

- `'connect timeout'`

```
```js
5000
```
```

The amount of milliseconds a transport has to create a connection before we consider it timed out.

- `'try multiple transports'`

```
```js
true
```
```

A boolean indicating if we should try other transports when the `connectTimeout` occurs.

- `'reconnect'`

```
```js
true
```
```

A boolean indicating if we should automatically reconnect if a connection is disconnected.

- `'reconnection delay'`

```
```js
500
```
```

The amount of milliseconds before we try to connect to the server again. We are using an exponential back off algorithm for the following reconnections, on each reconnect attempt this value will get multiplied (500 > 1000 > 2000 > 4000 > 8000).

- `'max reconnection attempts'`

```
```js
10
```
```

The amount of attempts should we make using the current transport to connect to the server? After this we will do one final attempt, and re-try with all enabled transport methods before we give up.

##### Properties:

- `'options'`

The passed in options combined with the defaults.

- `*connected*`

Whether the socket is connected or not.

- `*connecting*`

Whether the socket is connecting or not.

- `*reconnecting*`

Whether we are reconnecting or not.

- `*transport*`

The transport instance.

##### Methods:

- `*connect(ÃÂ»)*`

Establishes a connection. If `ÃÂ»` is supplied as argument, it will be called once the connection is established.

- `*send(message)*`

A string of data to send.

- `*disconnect*`

Closes the connection.

- `*on(event, ÃÂ»)*`

Adds a listener for the event `*event*`.

- `*once(event, ÃÂ»)*`

Adds a one time listener for the event `*event*`. The listener is removed after the first time the event is fired.

- `*removeListener(event, ÃÂ»)*`

Removes the listener `ÃÂ»` for the event `*event*`.

##### Events:

- `*connect*`

Fired when the connection is established and the handshake successful.

- `*connecting(transport_type)*`

Fired when a connection is attempted, passing the transport name.

- `*connect_failed*`

Fired when the connection timeout occurs after the last connection attempt.

This only fires if the ``connectTimeout`` option is set.

If the ``tryTransportsOnConnectTimeout`` option is set, this only fires once all possible transports have been tried.

- `*message(message)*`

Fired when a message arrives from the server

- `*close*`

Fired when the connection is closed. Be careful with using this event, as some transports will fire it even under temporary, expected disconnections (such as XHR-Polling).

- `*disconnect*`

Fired when the connection is considered disconnected.

- `*reconnect(transport_type,reconnectionAttempts)*`

Fired when the connection has been re-established. This only fires if the ``reconnect`` option is set.

- `*reconnecting(reconnectionDelay,reconnectionAttempts)*`

Fired when a reconnection is attempted, passing the next delay for the next reconnection.

- `*reconnect_failed*`

Fired when all reconnection attempts have failed and we were unsuccessful in reconnecting to the server.

### Contributors

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```

```
===
```

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# 1.773 string\_decoder 0.10.31

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# 1.774 stringstream 0.0.4

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# 1.775 strip-ansi 2.0.1

## 1.775.1 Available under license :

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

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

## Install

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

## Usage

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

stripAnsi('\u001b[4mcake\u001b[0m');
//=> 'cake'
```
```

## CLI

```
```sh
$ npm install --global strip-ansi
```
```

```
```sh
$ strip-ansi --help
```
```

Usage

strip-ansi <input-file> > <output-file>

```
cat <input-file> | strip-ansi > <output-file>
```

Example

```
strip-ansi unicorn.txt > unicorn-stripped.txt
...
```

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# 1.776 superagent 0.17.0

## 1.776.1 Available under license :

# SuperAgent

SuperAgent is a small progressive `__client-side__` HTTP request library, and `__Node.js__` module with the same API, sporting many high-level HTTP client features. View the [docs](http://visionmedia.github.com/superagent/).

![super agent](http://f.cl.ly/items/3d282n3A0h0Z0K2w0q2a/Screenshot.png)

## Installation

node:

...

```
$ npm install superagent
```

...

component:

...

```
$ component install visionmedia/superagent
```

...

with script tags use `./superagent.js`

## Motivation

This library spawned from my frustration with jQuery's weak & inconsistent Ajax support. jQuery's API while having recently added some promise-like support, is largely static, forcing you to build up big objects containing all the header fields and options, not to mention most of the options are awkwardly named "type" instead of "method", etc. Onto examples!

The following is what you might typically do for a simple `__GET__` with jQuery:

```
```js
```

```
$.get('/user/1', function(data, textStatus, xhr){

});
```
```

great, it's ok, but it's kinda lame having 3 arguments just to access something on the `xhr`. Our equivalent would be:

```
```js
request.get('/user/1', function(res){

});
```
```

the response object is an instance of `request.Response`, encapsulating all of this information instead of throwing a bunch of arguments at you. For example we can check `res.status`, `res.header` for header fields, `res.text`, `res.body` etc.

An example of a JSON POST with jQuery typically might use `\$.post()`, however once you need to start defining header fields you have to then re-write it using `\$.ajax()` ... so that might look like:

```
```js
$.ajax({
  url: '/api/pet',
  type: 'POST',
  data: { name: 'Manny', species: 'cat' },
  headers: { 'X-API-Key': 'foobar' }
}).success(function(res){

}).error(function(){

});
```
```

Not only is it ugly it's pretty opinionated, jQuery likes to special-case {4,5}xx, for example you cannot (easily at least) receive a parsed JSON response for say "400 Bad Request". This same request would look like this:

```
```js
request
  .post('/api/pet')
  .send({ name: 'Manny', species: 'cat' })
  .set('X-API-Key', 'foobar')
  .set('Accept', 'application/json')
  .end(function(error, res){

});
```
```

building on the existing API internally we also provide something similar to `\$.post()` for those times in life where

your interactions are very basic:

```
```js
request.post('/api/pet', cat, function(error, res){

});
```
```

### ## Running node tests

Install dependencies:

```
$ npm install
```

Run em!

```
$ make test
```

### ## Running browser tests

Install the test server deps (nodejs / express):

```
$ npm install
```

Start the test server:

```
$ make test-server
```

Visit `localhost:4000` in the browser.

### ## Browser build

The browser build of superagent is located in `./superagent.js`

### ## Examples:

- [agency tests](<https://github.com/visionmedia/superagent/blob/master/test/node/agency.js>)
- [express demo app](<https://github.com/hunterloftis/component-test/blob/master/lib/users/test/controller.test.js>)

### # Plugins

Usage:

```
```js
var request = require('superagent'),
    no_cache = require('no-cache'),
    prefix = require('superagent-prefix')('/static');
```

```
prefix(request); // Prefixes *all* requests

request.get('/some-url')
  .use(no_cache) // Prevents caching of *only* this request
  .end(function(res) {
    // Do something
  });
...

```

Existing plugins:

- * [superagent-no-cache](<https://github.com/johntron/superagent-no-cache>) - prevents caching by including Cache-Control header
- * [superagent-prefix](<https://github.com/johntron/superagent-prefix>) - prefixes absolute URLs (useful in test environment)

Please prefix your plugin component with `superagent-*`

For superagent extensions such as couchdb and oauth visit the [wiki](<https://github.com/visionmedia/superagent/wiki>).

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1.777 supertest 0.9.2

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1.778 supports-color 1.3.1

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

> Detect whether a terminal supports color

```
## Install
```

```
...
```

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

```
...
```

```
## Usage
```

```
```js
```

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

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

```
```
```

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

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

```
## CLI
```

```
...
```

```
$ npm install --global supports-color
```

```
...
```

```
...
```

```
$ supports-color --help
```

```
Usage
```

```
  supports-color
```

Exits with code 0 if color is supported and 1 if not

^^^

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1.779 swagger-node-express 2.0.1

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```
{
  "name": "swagger-node-express",
  "version": "2.0.1",
  "author": {
    "name": "Tony Tam",
    "email": "fehgy@gmail.com",
    "url": "http://developer.wordnik.com"
  },
  "contributors": [
    {
      "name": "Pauh Hill",
      "email": "phill@kixeye.com"
    }
  ],
  "description": "Wordnik swagger implementation for the express framework",
  "repository": {
    "type": "git",
    "url": "https://github.com/wordnik/swagger-node-express"
  },
  "keywords": [
    "http",
    "rest",
    "swagger",
    "server"
  ],
  "main": "index.js",
  "directories": {
    "lib": "./Common/node"
  },
  "engines": {
    "node": ">= 0.8.x"
  },
  "dependencies": {
    "connect": ">= 1.8.x",
    "express": "3.x",
    "docco": "0.4.x",
```



```
"lodash": "1.3.1"  
},  
"license": "apache 2.0"  
}
```

1.780 syslog-ng 3.5.6 :1.e17

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FAQ:
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The questions and answers below try to summarize the intentions behind this licensing scheme.

Q: Is it possible to create derived works of syslog-ng under the GPL/LGPL licenses?

A: Yes, that's exactly the point of open source. Works derived from the plugins will have to use the GPL license, but you can choose to use LGPL for them as well.

Q: Do I need to sign a Contributory License Agreement in order for my contribution to be accepted?

A: No, starting with syslog-ng 3.2, you don't need to sign a CLA in order to have your contributions accepted.

Q: Is it possible to create non-free plugins for syslog-ng?

A: Yes. It is our understanding that plugins are derived works of the syslog-ng core but not derived works of other plugins. Thus, non-free plugins are possible, provided they do not link to any of the GPLd plugins explicitly and the only connection between two plugins is via the syslog-ng core.

Q: Who is permitted to create non-free plugins for syslog-ng? Is it just

BalaBit (the current copyright holder as of the initial 3.2 release)?

A: No, everyone including BalaBit.

1.782 syslog-ng_MPLv1.1 3.5.6

1.782.1 Available under license :

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Version 1.1

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1.783 thenify 3.1.0

1.783.1 Available under license :

thenify

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Promisify a callback-based function.

- Preserves function names
- Uses a native promise implementation if available and tries to fall back to `bluebird`
- Converts multiple arguments from the callback into an `Array`
- Resulting function never deoptimizes
- Supports both callback and promise style

An added benefit is that `throw` errors in that async function will be caught by the promise!

API

- Turn async functions into promises

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

var somethingAsync = thenify(function somethingAsync(a, b, c, callback) {
 callback(null, a, b, c);
});
```
```

- Backward compatible with callback

```
```js
var thenify = require('thenify').withcallback;

var somethingAsync = thenify(function somethingAsync(a, b, c, callback) {
 callback(null, a, b, c);
});

// somethingAsync(a, b, c).then(onFulfilled).catch(onRejected);
// somethingAsync(a, b, c, function () {});
```
```

```
### var fn = thenify(fn)
```

Promisifies a function.

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1.784 thenify-all 1.6.0

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```
# thenify-all
```

```
[![NPM version][npm-image]][npm-url]  
[![Build status][travis-image]][travis-url]  
[![Test coverage][coveralls-image]][coveralls-url]  
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[![Downloads][downloads-image]][downloads-url]  
[![Gittip][gittip-image]][gittip-url]
```

Promisifies all the selected functions in an object.

```
```js  
var thenifyAll = require('thenify-all');

var fs = thenifyAll(require('fs'), { }, [
 'readFile',
 'writeFile',
]);

fs.readFile(__filename).then(function (buffer) {
 console.log(buffer.toString());
});
...

API

var obj = thenifyAll(source, [obj], [methods])
```

Promisifies all the selected functions in an object.

- `source` - the source object for the async functions
- `obj` - the destination to set all the promisified methods
- `methods` - an array of method names of `source`

```
var obj = thenifyAll.withCallback(source, [obj], [methods])
```

Promisifies all the selected functions in an object and backward compatible with callback.

- `source` - the source object for the async functions
- `obj` - the destination to set all the promisified methods
- `methods` - an array of method names of `source`

```
thenifyAll.thenify
```

Exports [thenify](<https://github.com/thenables/thenify>) this package uses.

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## 1.786 tinycolor 0.0.1

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# 1.787 tough-cookie 1.2.0

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# 1.791 transformers 2.1.0

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}
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# Type Is [![Build Status](https://travis-ci.org/expressjs/type-is.png)](https://travis-ci.org/expressjs/type-is)

Infer the content type of a request.

Extracted from [koa](https://github.com/koajs/koa) for general use.

Here's an example body parser:

```
```js
var is = require('type-is');
var parse = require('body');
var busboy = require('busboy');

function bodyParser(req, res, next) {
  var hasRequestBody = 'content-type' in req.headers
    || 'transfer-encoding' in req.headers;
  if (!hasRequestBody) return next();

  switch (is(req, ['urlencoded', 'json', 'multipart'])) {
    case 'urlencoded':
      // parse urlencoded body
      break
    case 'json':
      // parse json body
      break
    case 'multipart':
      // parse multipart body
      break
    default:
      // 415 error code
  }
}
```
```

## API

### var type = is(request, types)

```
```js
var is = require('type-is')

http.createServer(function (req, res) {
  is(req, ['text/*'])
})
```
```

```
})
```
```

``request`` is the node HTTP request. ``types`` is an array of types. Each type can be:

- An extension name such as ``json``. This name will be returned if matched.
- A mime type such as ``application/json``.
- A mime type with a wildcard such as ``*/json`` or ``application/*``. The full mime type will be returned if matched

``false`` will be returned if no type matches.

Examples:

```
```js  
// req.headers.content-type = 'application/json'
is(req, ['json']) // -> 'json'
is(req, ['html', 'json']) // -> 'json'
is(req, ['application/*']) // -> 'application/json'
is(req, ['application/json']) // -> 'application/json'
is(req, ['html']) // -> false
```
```

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1.799 type-is 1.3.2

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```
# type-is
```

```
[![NPM version](https://badge.fury.io/js/type-is.svg)](https://badge.fury.io/js/type-is)
[![Build Status](https://travis-ci.org/expressjs/type-is.svg?branch=master)](https://travis-ci.org/expressjs/type-is)
[![Coverage Status](https://img.shields.io/coveralls/expressjs/type-is.svg?branch=master)](https://coveralls.io/r/expressjs/type-is)
```

Infer the content-type of a request.

```
### Install
```

```
```sh
$ npm install type-is
```
```

```
## API
```

```
```js
var http = require('http')
var is = require('type-is')

http.createServer(function (req, res) {
 var istext = is(req, ['text/*'])
 res.end('you ' + (istext ? 'sent' : 'did not send') + ' me text')
})
```
```

```
### type = is(request, types)
```

`request` is the node HTTP request. `types` is an array of types.

```
```js
// req.headers.content-type = 'application/json'

is(req, ['json']) // 'json'
is(req, ['html', 'json']) // 'json'
is(req, ['application/*']) // 'application/json'
is(req, ['application/json']) // 'application/json'

is(req, ['html']) // false
```



...

#### Each type can be:

- An extension name such as `json`. This name will be returned if matched.
- A mime type such as `application/json`.
- A mime type with a wildcard such as `\*/json` or `application/\*`. The full mime type will be returned if matched
- A suffix such as `+json`. This can be combined with a wildcard such as `\*/vnd+json` or `application/\*+json`. The full mime type will be returned if matched.

`false` will be returned if no type matches.

## Examples

#### Example body parser

```
```js
var is = require('type-is');
var parse = require('body');
var busboy = require('busboy');

function bodyParser(req, res, next) {
  if (!is.hasBody(req)) return next();

  switch (is(req, ['urlencoded', 'json', 'multipart'])) {
    case 'urlencoded':
      // parse urlencoded body
      break
    case 'json':
      // parse json body
      break
    case 'multipart':
      // parse multipart body
      break
    default:
      // 415 error code
  }
}
```
```

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## 1.801 type-of-is 3.3.0

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```
{
 "name": "type-of-is",
 "version": "3.3.0",
 "description": "Determine and test types using constructor or {}.toString",
 "license": "MIT",
 "main": "index.js",

 "repository": {
 "type": "git",
 "url": "https://github.com/stephenhandley/type-of-is"
 },

 "bugs": {
 "url": "http://github.com/stephenhandley/type-of-is/issues"
 },

 "scripts": {
 "test": "node test/test.js"
 },

 "keywords": [
 "type",
 "types",
 "typeof",
 "toString",
 "type.of",
 "type.is"
],

 "directories": {
 "lib": ".",
 "test": "test"
 },

 "engines": {
 "node": ">=0.10.5"
 },

 "devDependencies": {
 "asserts": "4.0.x"
 },

 "author": {
 "name": "Stephen Handley",
 "email": "stephen.handley@gmail.com",
 "url": "http://person.sh"
 }
}
```

```
}
```

# 1.802 type-of-is 3.2.0

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```
{
 "name": "type-of-is",
 "version": "3.2.0",
 "description": "Determine and test types using constructor or {}.toString",
 "license": "MIT",
 "main": "index.js",

 "repository": {
 "type": "git",
 "url": "https://github.com/stephenhandley/type-of-is"
 },

 "bugs": {
 "url": "http://github.com/stephenhandley/type-of-is/issues"
 },

 "scripts": {
 "test": "node test/test.js"
 },

 "keywords": [
 "type",
 "types",
 "typeof",
 "toString",
 "type.of",
 "type.is"
],

 "directories": {
 "lib": ".",
 "test": "test"
 },

 "engines": {
 "node": ">=0.10.5"
 },

 "devDependencies": {
 "asserts": "4.0.x"
 },
}
```

```
"author": {
 "name": "Stephen Handley",
 "email": "stephen.handley@gmail.com",
 "url": "http://person.sh"
}
```

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\*

\* Credits: Ideas included from incomplete JS implementation of Olson

\* parser, "XMLDAta" by Philippe Goetz (philippe.goetz@wanadoo.fr)

\*

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\*/

## 1.804 uglify-js 2.4.23

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## 1.808 uglify-js 2.2.5

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UglifyJS 2

=====

UglifyJS is a JavaScript parser, minifier, compressor or beautifier toolkit.

This page documents the command line utility. For

[API and internals documentation see my website](<http://lisperator.net/uglifyjs/>).

There's also an

[in-browser online demo](<http://lisperator.net/uglifyjs/#demo>) (for Firefox, Chrome and probably Safari).

Install

-----

First make sure you have installed the latest version of [node.js](<http://nodejs.org/>) (You may need to restart your computer after this step).

From NPM for use as a command line app:

```
npm install uglify-js -g
```

From NPM for programmatic use:

```
npm install uglify-js
```

From Git:

```
git clone git://github.com/mishoo/UglifyJS2.git
cd UglifyJS2
npm link .
```

Usage

-----

```
uglifyjs [input files] [options]
```

UglifyJS2 can take multiple input files. It's recommended that you pass the input files first, then pass the options. UglifyJS will parse input files in sequence and apply any compression options. The files are parsed in the same global scope, that is, a reference from a file to some variable/function declared in another file will be matched properly.

If you want to read from STDIN instead, pass a single dash instead of input files.

The available options are:

```
--source-map Specify an output file where to generate source map.
 [string]
--source-map-root The path to the original source to be included in the
 source map. [string]
--source-map-url The path to the source map to be added in //@
 sourceMappingURL. Defaults to the value passed with
 --source-map. [string]
--in-source-map Input source map, useful if you're compressing JS that was
 generated from some other original code.
-p, --prefix Skip prefix for original filenames that appear in source
 maps. For example -p 3 will drop 3 directories from file
 names and ensure they are relative paths.
-o, --output Output file (default STDOUT).
-b, --beautify Beautify output/specify output options. [string]
-m, --mangle Mangle names/pass mangler options. [string]
-r, --reserved Reserved names to exclude from mangling.
-c, --compress Enable compressor/pass compressor options. Pass options
 like -c hoist_vars=false,if_return=false. Use -c with no
 argument to use the default compression options. [string]
-d, --define Global definitions [string]
--comments Preserve copyright comments in the output. By default this
 works like Google Closure, keeping JSDoc-style comments
 that contain "@license" or "@preserve". You can optionally
 pass one of the following arguments to this flag:
```

- "all" to keep all comments
- a valid JS regexp (needs to start with a slash) to keep only comments that match.

Note that currently not *\*all\** comments can be kept when compression is on, because of dead code removal or cascading statements into sequences. [string]

- stats Display operations run time on STDERR. [boolean]
- acorn Use Acorn for parsing. [boolean]
- spidermonkey Assume input files are SpiderMonkey AST format (as JSON). [boolean]
- self Build itself (UglifyJS2) as a library (implies --wrap=UglifyJS --export-all) [boolean]
- wrap Embed everything in a big function, making the `exports` and `global` variables available. You need to pass an argument to this option to specify the name that your module will take when included in, say, a browser. [string]
- export-all Only used when --wrap, this tells UglifyJS to add code to automatically export all globals. [boolean]
- lint Display some scope warnings [boolean]
- v, --verbose Verbose [boolean]
- V, --version Print version number and exit. [boolean]

Specify `--output` (`-o`)` to declare the output file. Otherwise the output goes to `STDOUT`.

#### ## Source map options

UglifyJS2 can generate a source map file, which is highly useful for debugging your compressed JavaScript. To get a source map, pass `--source-map output.js.map` (full path to the file where you want the source map dumped).`

Additionally you might need `--source-map-root` to pass the URL where the original files can be found. In case you are passing full paths to input files to UglifyJS, you can use --prefix` (`-p`) to specify the number of directories to drop from the path prefix when declaring files in the source map.`

For example:

```

uglifyjs /home/does/work/foo/src/js/file1.js \
/home/does/work/foo/src/js/file2.js \
-o foo.min.js \
--source-map foo.min.js.map \
--source-map-root http://foo.com/src \
-p 5 -c -m

```

The above will compress and mangle `file1.js` and `file2.js`, will drop the output in `foo.min.js` and the source map in `foo.min.js.map`. The source mapping will refer to `http://foo.com/src/js/file1.js` and `http://foo.com/src/js/file2.js` (in fact it will list `http://foo.com/src` as the source map root, and the original files as `js/file1.js` and `js/file2.js`).

### ### Composed source map

When you're compressing JS code that was output by a compiler such as CoffeeScript, mapping to the JS code won't be too helpful. Instead, you'd like to map back to the original code (i.e. CoffeeScript). UglifyJS has an option to take an input source map. Assuming you have a mapping from CoffeeScript â compiled JS, UglifyJS can generate a map from CoffeeScript â compressed JS by mapping every token in the compiled JS to its original location.

To use this feature you need to pass `--in-source-map /path/to/input/source.map`. Normally the input source map should also point to the file containing the generated JS, so if that's correct you can omit input files from the command line.

### ## Mangler options

To enable the mangler you need to pass `--mangle (-m)`. Optionally you can pass `-m sort=true` (we'll possibly have other flags in the future) in order to assign shorter names to most frequently used variables. This saves a few hundred bytes on jQuery before gzip, but the output is *bigger* after gzip (and seems to happen for other libraries I tried it on) therefore it's not enabled by default.

When mangling is enabled but you want to prevent certain names from being mangled, you can declare those names with `--reserved (-r)` â pass a comma-separated list of names. For example:

```
uglifyjs ... -m -r '$,require,exports'
```

to prevent the `require`, `exports` and `$` names from being changed.

### ## Compressor options

You need to pass `--compress (-c)` to enable the compressor. Optionally you can pass a comma-separated list of options. Options are in the form `foo=bar`, or just `foo` (the latter implies a boolean option that you want to set `true`; it's effectively a shortcut for `foo=true`).

The defaults should be tuned for maximum compression on most code. Here are the available options (all are `true` by default, except `hoist_vars`):

- ``sequences`` -- join consecutive simple statements using the comma operator
- ``properties`` -- rewrite property access using the dot notation, for example ``foo["bar"]`` â `foo.bar``
- ``dead_code`` -- remove unreachable code
- ``drop_debugger`` -- remove ``debugger;`` statements
- ``unsafe`` -- apply "unsafe" transformations (discussion below)
- ``conditionals`` -- apply optimizations for ``if``-s and conditional expressions
- ``comparisons`` -- apply certain optimizations to binary nodes, for example: ``!(a <= b) â a > b`` (only when ``unsafe``), attempts to negate binary nodes, e.g. ``a = !b && !c && !d && !e â a=!(b||c||d||e)`` etc.
- ``evaluate`` -- attempt to evaluate constant expressions
- ``booleans`` -- various optimizations for boolean context, for example ``!!a ? b : c`` â `a ? b : c``
- ``loops`` -- optimizations for ``do``, ``while`` and ``for`` loops when we can statically determine the condition
- ``unused`` -- drop unreferenced functions and variables
- ``hoist_funs`` -- hoist function declarations
- ``hoist_vars`` -- hoist ``var`` declarations (this is ``false`` by default because it seems to increase the size of the output in general)
- ``if_return`` -- optimizations for if/return and if/continue
- ``join_vars`` -- join consecutive ``var`` statements
- ``cascade`` -- small optimization for sequences, transform ``x, x`` into ``x`` and ``x = something(), x`` into ``x = something()``
- ``warnings`` -- display warnings when dropping unreachable code or unused declarations etc.

### ### Conditional compilation

You can use the ``--define`` (``-d``) switch in order to declare global variables that UglifyJS will assume to be constants (unless defined in scope). For example if you pass ``--define DEBUG=false`` then, coupled with dead code removal UglifyJS will discard the following from the output:

```
if (DEBUG) {
 console.log("debug stuff");
}
```

UglifyJS will warn about the condition being always false and about dropping unreachable code; for now there is no option to turn off only this specific warning, you can pass ``warnings=false`` to turn off *\*all\** warnings.

Another way of doing that is to declare your globals as constants in a separate file and include it into the build. For example you can have a ``build/defines.js`` file with the following:

```
const DEBUG = false;
```



```
const PRODUCTION = true;
// etc.
```

and build your code like this:

```
uglifyjs build/defines.js js/foo.js js/bar.js... -c
```

UglifyJS will notice the constants and, since they cannot be altered, it will evaluate references to them to the value itself and drop unreachable code as usual. The possible downside of this approach is that the build will contain the `const` declarations.

```

Beautifier options
```

The code generator tries to output shortest code possible by default. In case you want beautified output, pass `--beautify` (`-b`). Optionally you can pass additional arguments that control the code output:

- `beautify` (default `true`) -- whether to actually beautify the output. Passing `-b` will set this to true, but you might need to pass `-b` even when you want to generate minified code, in order to specify additional arguments, so you can use `-b beautify=false` to override it.
- `indent-level` (default 4)
- `indent-start` (default 0) -- prefix all lines by that many spaces
- `quote-keys` (default `false`) -- pass `true` to quote all keys in literal objects
- `space-colon` (default `true`) -- insert a space after the colon signs
- `ascii-only` (default `false`) -- escape Unicode characters in strings and regexps
- `inline-script` (default `false`) -- escape the slash in occurrences of `

### ### Keeping copyright notices or other comments

You can pass `--comments`` to retain certain comments in the output. By default it will keep JSDoc-style comments that contain `"@preserve"`, `"@license"` or `"@cc_on"` (conditional compilation for IE). You can pass `--comments all`` to keep all the comments, or a valid JavaScript regexp to keep only comments that match this regexp. For example `--comments /foo|bar/`` will keep only comments that contain `"foo"` or `"bar"`.

Note, however, that there might be situations where comments are lost. For example:

```
function f() {
 /** @preserve Foo Bar */
 function g() {
 // this function is never called
 }
 return something();
}
```

Even though it has `"@preserve"`, the comment will be lost because the inner function `g`` (which is the AST node to which the comment is attached to) is discarded by the compressor as not referenced.

The safest comments where to place copyright information (or other info that needs to be kept in the output) are comments attached to toplevel nodes.

### ## Support for the SpiderMonkey AST

UglifyJS2 has its own abstract syntax tree format; for [practical reasons](<http://lisperator.net/blog/uglifyjs-why-not-switching-to-spidermonkey-ast/>) we can't easily change to using the SpiderMonkey AST internally. However, UglifyJS now has a converter which can import a SpiderMonkey AST.

For example [Acorn][acorn] is a super-fast parser that produces a SpiderMonkey AST. It has a small CLI utility that parses one file and dumps the AST in JSON on the standard output. To use UglifyJS to mangle and compress that:

```
acorn file.js | uglifyjs --spidermonkey -m -c
```

The `--spidermonkey`` option tells UglifyJS that all input files are not JavaScript, but JS code described in SpiderMonkey AST in JSON. Therefore we don't use our own parser in this case, but just transform that AST into our internal AST.

### ### Use Acorn for parsing

More for fun, I added the `--acorn` option which will use Acorn to do all the parsing. If you pass this option, UglifyJS will require("acorn")`.`

Acorn is really fast (e.g. 250ms instead of 380ms on some 650K code), but converting the SpiderMonkey tree that Acorn produces takes another 150ms so in total it's a bit more than just using UglifyJS's own parser.

## API Reference

-----

Assuming installation via NPM, you can load UglifyJS in your application like this:

```
var UglifyJS = require("uglify-js");
```

It exports a lot of names, but I'll discuss here the basics that are needed for parsing, mangling and compressing a piece of code. The sequence is (1) parse, (2) compress, (3) mangle, (4) generate output code.

### ### The simple way

There's a single toplevel function which combines all the steps. If you don't need additional customization, you might want to go with `minify`.`

Example:

```
var result = UglifyJS.minify("/path/to/file.js");
console.log(result.code); // minified output
// if you need to pass code instead of file name
var result = UglifyJS.minify("var b = function () {};", {fromString: true});
```

You can also compress multiple files:

```
var result = UglifyJS.minify(["file1.js", "file2.js", "file3.js"]);
console.log(result.code);
```

To generate a source map:

```
var result = UglifyJS.minify(["file1.js", "file2.js", "file3.js"], {
 outSourceMap: "out.js.map"
});
console.log(result.code); // minified output
console.log(result.map);
```

Note that the source map is not saved in a file, it's just returned in `result.map`.` The value passed for `outSourceMap` is only used to set the` file` attribute in the source map (see [the spec][sm-spec]).`

You can also specify `sourceRoot` property to be included in source map:

```
var result = UglifyJS.minify(["file1.js", "file2.js", "file3.js"], {
 outSourceMap: "out.js.map",
 sourceRoot: "http://example.com/src"
});
```

If you're compressing compiled JavaScript and have a source map for it, you can use the `inSourceMap` argument:

```
var result = UglifyJS.minify("compiled.js", {
 inSourceMap: "compiled.js.map",
 outSourceMap: "minified.js.map"
});
// same as before, it returns `code` and `map`
```

The `inSourceMap` is only used if you also request `outSourceMap` (it makes no sense otherwise).

Other options:

- `warnings` (default `false`) â pass `true` to display compressor warnings.
- `fromString` (default `false`) â if you pass `true` then you can pass JavaScript source code, rather than file names.
- `mangle` â pass `false` to skip mangling names.
- `output` (default `null`) â pass an object if you wish to specify additional [output options][codegen]. The defaults are optimized for best compression.
- `compress` (default `{}`) â pass `false` to skip compressing entirely. Pass an object to specify custom [compressor options][compressor].

We could add more options to `UglifyJS.minify` â if you need additional functionality please suggest!

### The hard way

Following there's more detailed API info, in case the `minify` function is too simple for your needs.

#### The parser

```
var toplevel_ast = UglifyJS.parse(code, options);
```

``options`` is optional and if present it must be an object. The following properties are available:

- ``strict`` â disable automatic semicolon insertion and support for trailing comma in arrays and objects
- ``filename`` â the name of the file where this code is coming from
- ``toplevel`` â a ``toplevel`` node (as returned by a previous invocation of ``parse``)

The last two options are useful when you'd like to minify multiple files and get a single file as the output and a proper source map. Our CLI tool does something like this:

```
var toplevel = null;
files.forEach(function(file){
 var code = fs.readFileSync(file);
 toplevel = UglifyJS.parse(code, {
 filename: file,
 toplevel: toplevel
 });
});
```

After this, we have in ``toplevel`` a big AST containing all our files, with each token having proper information about where it came from.

#### #### Scope information

UglifyJS contains a scope analyzer that you need to call manually before compressing or mangling. Basically it augments various nodes in the AST with information about where is a name defined, how many times is a name referenced, if it is a global or not, if a function is using ``eval`` or the ``with`` statement etc. I will discuss this some place else, for now what's important to know is that you need to call the following before doing anything with the tree:

```
toplevel.figure_out_scope()
```

#### #### Compression

Like this:

```
var compressor = UglifyJS.Compressor(options);
var compressed_ast = toplevel.transform(compressor);
```

The ``options`` can be missing. Available options are discussed above in `âCompressor optionsâ`. Defaults should lead to best compression in most scripts.

The compressor is destructive, so don't rely that ``toplevel`` remains the original tree.

#### #### Mangling

After compression it is a good idea to call again ``figure_out_scope`` (since the compressor might drop unused variables / unreachable code and this might change the number of identifiers or their position). Optionally, you can call a trick that helps after Gzip (counting character frequency in non-mangleable words). Example:

```
compressed_ast.figure_out_scope();
compressed_ast.compute_char_frequency();
compressed_ast.mangle_names();
```

#### #### Generating output

AST nodes have a ``print`` method that takes an output stream. Essentially, to generate code you do this:

```
var stream = UglifyJS.OutputStream(options);
compressed_ast.print(stream);
var code = stream.toString(); // this is your minified code
```

or, for a shortcut you can do:

```
var code = compressed_ast.print_to_string(options);
```

As usual, ``options`` is optional. The output stream accepts a lot of options, most of them documented above in section `âBeautifier optionsâ`. The two which we care about here are ``source_map`` and ``comments``.

#### #### Keeping comments in the output

In order to keep certain comments in the output you need to pass the ``comments`` option. Pass a RegExp or a function. If you pass a RegExp, only those comments whose body matches the regexp will be kept. Note that body means without the initial ``//`` or ``/*``. If you pass a function, it will be called for every comment in the tree and will receive two arguments: the node that the comment is attached to, and the comment token itself.

The comment token has these properties:

- ``type``: "comment1" for single-line comments or "comment2" for multi-line comments
- ``value``: the comment body
- ``pos`` and ``endpos``: the start/end positions (zero-based indexes) in the original code where this comment appears

- ``line`` and ``col``: the line and column where this comment appears in the original code
- ``file`` â the file name of the original file
- ``nlb`` â true if there was a newline before this comment in the original code, or if this comment contains a newline.

Your function should return ``true`` to keep the comment, or a falsy value otherwise.

#### #### Generating a source mapping

You need to pass the ``source_map`` argument when calling ``print``. It needs to be a ``SourceMap`` object (which is a thin wrapper on top of the `[source-map][source-map]` library).

Example:

```
var source_map = UglifyJS.SourceMap(source_map_options);
var stream = UglifyJS.OutputStream({
 ...
 source_map: source_map
});
compressed_ast.print(stream);

var code = stream.toString();
var map = source_map.toString(); // json output for your source map
```

The ``source_map_options`` (optional) can contain the following properties:

- ``file``: the name of the JavaScript output file that this mapping refers to
- ``root``: the ``sourceRoot`` property (see the `[spec][sm-spec]`)
- ``orig``: the "original source map", handy when you compress generated JS and want to map the minified output back to the original code where it came from. It can be simply a string in JSON, or a JSON object containing the original source map.

[acorn]: <https://github.com/marijnh/acorn>

[source-map]: <https://github.com/mozilla/source-map>

[sm-spec]: [https://docs.google.com/document/d/1U1RGAehQwRypUTovF1KRlpiOFze0b-\\_2gc6fAH0KY0k/edit](https://docs.google.com/document/d/1U1RGAehQwRypUTovF1KRlpiOFze0b-_2gc6fAH0KY0k/edit)

[codegen]: <http://lisperator.net/uglifyjs/codegen>

[compressor]: <http://lisperator.net/uglifyjs/compress>

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\*

\* Credits: Ideas included from incomplete JS implementation of Olson

\* parser, "XMLDate" by Philippe Goetz (philippe.goetz@wanadoo.fr)

\*

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\*/

## 1.810 uglify-to-browserify 1.0.2

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## 1.821 underscore.string 2.3.3

### 1.821.1 Available under license :

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 "version": "2.3.3",
 "description": "String manipulation extensions for Underscore.js javascript library.",
 "homepage": "http://epeli.github.com/underscore.string/",
 "contributors": [
 "Esa-Matti Suuronen <esa-matti@suuronen.org> (http://esa-matti.suuronen.org/)",
 "Edward Tsech <edtsech@gmail.com>",
 "Pavel Pravosud <pavel@pravosud.com> (<https://github.com/rwz>)",
 "Sasha Koss <kossnocorp@gmail.com> (http://koss.nocorp.me/)",
 "Vladimir Dronnikov <dronnikov@gmail.com>",
```

```

 "Pete Kruckenberg (<https://github.com/kruckenb>)",
 "Paul Chavard <paul@chavard.net> (<http://tchak.net>)",
 "Ed Finkler <coj@funkatron.com> (<http://funkatron.com>)"
],
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## 1.822 underscore.string 2.4.0

### 1.822.1 Available under license :

```

{
 "name": "underscore.string",
 "version": "2.4.0",
 "description": "String manipulation extensions for Underscore.js javascript library.",
 "homepage": "http://epeli.github.com/underscore.string/",
 "contributors": [
 "Esa-Matti Suuronen <esa-matti@suuronen.org> (http://esa-matti.suuronen.org)",
 "Edward Tsech <edtsech@gmail.com>",
 "Pavel Pravosud <pavel@pravosud.com> (<https://github.com/rwz>)",
 "Sasha Koss <kossnocorp@gmail.com> (http://koss.nocorp.me/)",
 "Vladimir Dronnikov <dronnikov@gmail.com>",
 "Pete Kruckenberg (<https://github.com/kruckenb>)",
 "Paul Chavard <paul@chavard.net> (<http://tchak.net>)",
 "Ed Finkler <coj@funkatron.com> (<http://funkatron.com>)"
],
}

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"directories": {
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"engines": {
 "node": "*"
},
"repository": {
 "type": "git",
 "url": "https://github.com/epeli/underscore.string.git"
},
"bugs": {
 "url": "https://github.com/epeli/underscore.string/issues"
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 "gulp-clean": "~0.3.1",
 "gulp-rename": "~1.2.0"
}
}
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## 1.823 url 0.10.2

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# 1.832 vhost 1.0.0

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# Virtual Host

Previously `connect.vhost()`.

Usage:

```
```js
var connect = require('connect');
var vhost = require('vhost');

var app = connect();

app.use(vhost('mail.example.com', function(req, res){}));
app.use(vhost('*example.com', connect()));
app.use(connect());
```
```

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# 1.834 void-elements 1.0.0

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## 1.845 wordwrap 0.0.3

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# 1.846 wordwrap 0.0.2

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```
{
 "name" : "wordwrap",
 "description" : "Wrap those words. Show them at what columns to start and stop.",
 "version" : "0.0.2",
 "repository" : {
 "type" : "git",
 "url" : "git://github.com/substack/node-wordwrap.git"
 },
 "main" : "./index.js",
 "keywords" : [
 "word",
 "wrap",
 "rule",
 "format",
 "column"
],
 "directories" : {
 "lib" : ".",
 "example" : "example",
 "test" : "test"
 },
 "scripts" : {
 "test" : "expresso"
 },
 "devDependencies" : {
 "expresso" : "=0.7.x"
 },
 "engines" : {
 "node" : ">=0.4.0"
 },
 "license" : "MIT/X11",
 "author" : {
 "name" : "James Halliday",
 "email" : "mail@substack.net",
 "url" : "http://substack.net"
 }
}
```

# 1.847 wrappy 1.0.1

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## 1.848 ws 0.4.32

### 1.848.1 Available under license :

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

# ws: a node.js websocket library #

`ws` is a simple to use websocket implementation, up-to-date against RFC-6455, and [probably the fastest WebSocket library for node.js](http://web.archive.org/web/20130314230536/http://hobbycoding.posterous.com/the-fastest-websocket-module-for-nodejs).

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

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

## Protocol support ##

\* \*\*Hixie draft 76\*\* (Old and deprecated, but still in use by Safari and Opera. Added to ws version 0.4.2, but server only. Can be disabled by setting the `disableHixie` option to true.)

\* \*\*HyBi drafts 07-12\*\* (Use the option `protocolVersion: 8`, or argument `-p 8` for wscat)

\* \*\*HyBi drafts 13-17\*\* (Current default, alternatively option `protocolVersion: 13`, or argument `-p 13` for wscat)

\_See the [echo.websocket.org](http://echo.websocket.org) example below for how to use the `protocolVersion` option.\_

## Usage ##

### Installing ###

`npm install ws`

```
Sending and receiving text data
```

```
```js
var WebSocket = require('ws');
var ws = new WebSocket('ws://www.host.com/path');
ws.on('open', function() {
  ws.send('something');
});
ws.on('message', function(data, flags) {
  // flags.binary will be set if a binary data is received
  // flags.masked will be set if the data was masked
});
```
```

```
Sending binary data
```

```
```js
var WebSocket = require('ws');
var ws = new WebSocket('ws://www.host.com/path');
ws.on('open', function() {
  var array = new Float32Array(5);
  for (var i = 0; i < array.length; ++i) array[i] = i / 2;
  ws.send(array, { binary: true, mask: true });
});
```
```

Setting `mask`, as done for the send options above, will cause the data to be masked according to the websocket protocol. The same option applies for text data.

```
Server example
```

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

```
Server sending broadcast data
```

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

```

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

Error handling best practices

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

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

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

echo.websocket.org demo

```js
var WebSocket = require('ws');
var ws = new WebSocket('ws://echo.websocket.org/', { protocolVersion: 8, origin: 'http://websocket.org' });
ws.on('open', function() {
  console.log('connected');
  ws.send(Date.now().toString(), { mask: true });
});
ws.on('close', function() {
  console.log('disconnected');
});
ws.on('message', function(data, flags) {
  console.log('Roundtrip time: ' + (Date.now() - parseInt(data)) + 'ms', flags);
  setTimeout(function() {
    ws.send(Date.now().toString(), { mask: true });
  }, 500);
});
```

```

```
});
``
```

```
wscat against echo.websocket.org
```

```
$ npm install -g ws
$ wscat -c ws://echo.websocket.org
connected (press CTRL+C to quit)
> hi there
< hi there
> are you a happy parrot?
< are you a happy parrot?
```

```
Other examples
```

For a full example with a browser client communicating with a ws server, see the examples folder.

Note that the usage together with Express 3.0 is quite different from Express 2.x. The difference is expressed in the two different serverstats-examples.

Otherwise, see the test cases.

```
Running the tests
```

```
`make test`
```

```
API Docs
```

See the doc/ directory for Node.js-like docs for the ws classes.

```
License
```

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# 1.849 wxGTK 2.8.12 :8.e17

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

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

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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses

the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

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

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

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

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

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

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

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

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

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

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

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special

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

<one line to give the library's name and a brief idea of what it does.>  
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Also add information on how to contact you by electronic and paper mail.

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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

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

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

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The

former contains code derived from the library, while the latter only works together with the library.

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

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

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

When a "work that uses the Library" uses material from a header file

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

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

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

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

than the cost of performing this distribution.

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

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

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.3, July 18th, 2005

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jloup@gzip.org      madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

\*/

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## 1.858 xtend 4.0.0

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```
{
 "name": "xtend",
 "version": "4.0.0",
 "description": "extend like a boss",
 "keywords": [
 "extend",
 "merge",
 "options",
 "opts",
 "object",
 "array"
]
}
```

```

],
"author": "Raynos <raynos2@gmail.com>",
"repository": "git://github.com/Raynos/xtend.git",
"main": "immutable",
"scripts": {
 "test": "node test"
},
"dependencies": {},
"devDependencies": {
 "tape": "~1.1.0"
},
"homepage": "https://github.com/Raynos/xtend",
"contributors": [
 {
 "name": "Jake Verbaten"
 },
 {
 "name": "Matt Esch"
 }
],
"bugs": {
 "url": "https://github.com/Raynos/xtend/issues",
 "email": "raynos2@gmail.com"
},
"licenses": [
 {
 "type": "MIT",
 "url": "http://github.com/raynos/xtend/raw/master/LICENSE"
 }
],
"testling": {
 "files": "test.js",
 "browsers": [
 "ie/7..latest",
 "firefox/16..latest",
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 "opera/next",
 "safari/5.1..latest",
 "ipad/6.0..latest",
 "iphone/6.0..latest"
]
},
"engines": {
 "node": ">=0.4"
}

```

```
}
```

# 1.859 yaml 0.2.3

## 1.859.1 Available under license :

```
YAML
```

CommonJS JavaScript YAML parser, fast and tiny. Although this implementation does not currently support the entire YAML specification, feel free to fork the project and submit a patch :)

```
Usage
```

```
require('yaml').eval(string_of_yaml)
```

```
Currently Supports
```

- \* Comments
- \* Sequences (arrays)
- \* Maps (hashes)
- \* Inline sequences
- \* Inline maps
- \* Nesting
- \* Primitive scalars (integers, floats, booleans, etc)
- \* Extended bools (enabled, disabled, yes, no, on, off, true, false)

```
Installation
```

```
$ npm install yaml
```

```
Testing
```

Update git submodules and run:

```
$ make test
```

```
License
```

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Upstream-Contact: MediaArea.net SARL <Info@MediaArea.net>



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Files: Source/ZenLib/PreComp.cpp

Source/ZenLib/PreComp.h

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