



Open Source Used In Virtual Media Packager 2.7

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In your requests please include the following reference number **78EE117C99-132905770**

The product also uses the Linux operating system, CentOS-MOS 7. Information on this distribution is available at

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1.327 iomcurl 7.41.0 :IOM

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1.328 iomlibuv 1.0.0 :rc2.IOM

1.328.1 Available under license

1.329 ipaddr.js 0.1.8

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1.330 ipaddr.js 0.1.9

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1.331 ipaddr.js 1.0.1

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1.332 is-array 1.0.1

1.332.1 Available under license

1.333 is-my-json-valid 2.12.0

1.333.1 Available under license

1.334 is-promise 1.0.1

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1.335 is-property 1.0.2

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1.336 isarray 0.0.1

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1.337 isstream 0.1.1

- 1.337.1 Available under license
- 1.338 isstream 0.1.2**
- 1.338.1 Available under license
- 1.339 istanbul 0.3.0**
- 1.339.1 Available under license
- 1.340 ivykis 0.36.2 :2.el7**
- 1.340.1 Available under license
- 1.341 Jade 0.34.1**
- 1.341.1 Available under license
- 1.342 jade 1.9.1**
- 1.342.1 Available under license
- 1.343 jade 0.26.3**
- 1.343.1 Available under license
- 1.344 jemalloc 3.6.0 :1.el7**
- 1.344.1 Available under license
- 1.345 jison 0.3.12**
- 1.345.1 Available under license
- 1.346 jquery 1.8.3**
- 1.346.1 Available under license
- 1.347 jquery-browserify 1.8.1**
- 1.347.1 Available under license
- 1.348 js-yaml 3.1.0**
- 1.348.1 Available under license
- 1.349 js-yaml 3.2.7**
- 1.349.1 Available under license
- 1.350 js-yaml 3.0.1**
- 1.350.1 Available under license
- 1.351 jsdom 0.2.19**
- 1.351.1 Available under license
- 1.352 json-stream 1.0.0**
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- 1.353 json-stringify-safe 5.0.0**
- 1.353.1 Available under license
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- 1.354.1 Available under license
- 1.355 jsonfile 2.0.0**
- 1.355.1 Available under license
- 1.356 jsonparse 0.0.5**
- 1.356.1 Available under license

- 1.357 jsonpointer 1.1.0**
 - 1.357.1 Available under license
- 1.358 JSONSelect 0.4.0**
 - 1.358.1 Available under license
- 1.359 JSONStream 0.10.0**
 - 1.359.1 Available under license
- 1.360 JSV 4.0.2**
 - 1.360.1 Available under license
- 1.361 JSV_jsdoc-toolkit 4.0.2**
 - 1.361.1 Available under license
- 1.362 kareem 0.0.4**
 - 1.362.1 Available under license
- 1.363 kerberos 0.0.8**
 - 1.363.1 Available under license
- 1.364 kerberos 0.0.4**
 - 1.364.1 Available under license
- 1.365 kerberos 0.0.9**
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- 1.366 kerberos 0.0.3**
 - 1.366.1 Available under license
- 1.367 kernel-ml 4.2.5 :1.el7.centos**
 - 1.367.1 Available under license
- 1.368 keypress 0.1.0**
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- 1.369 lcov-parse 0.0.6**
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- 1.370 libcap-ng_utils 0.7.3 :5.el7**
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- 1.371 libdrm_GPLv2 2.4.50 :1.1.el7**
 - 1.371.1 Available under license
- 1.372 libnl3_doc 3.2.21 :6.el7**
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- 1.373 libpng_gregbook 1.5.13 :5.el7**
 - 1.373.1 Available under license
- 1.374 libselinux-utils-GPLv2 2.2.2 :6.el7**
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- 1.375 libtool - libltdl 2.4.2 :20.el7**
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- 1.376 libunistring_tests 0.9.3 :9.el7**

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1.377 libuv 0.10.28 :1.e17
1.377.1 Available under license
1.378 libxmljs 0.11.0
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1.379 libxslt_GPLv2 1.1.28 :5.e17
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1.380 location 0.0.1
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- 1.396 log4js-ain2 0.1.6**
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- 1.494 negotiator 0.3.0**
 - 1.494.1 Available under license
- 1.495 netmask 1.0.4**
 - 1.495.1 Available under license
- 1.496 ngx_openresty 1.7.2.1 :1.el7.centos**
 - 1.496.1 Available under license
- 1.497 node-getopt 0.2.3**
 - 1.497.1 Available under license
- 1.498 node-gyp 0.10.6 :2.el7**
 - 1.498.1 Available under license
- 1.499 node-logger 2.0.0**
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- 1.500 node-ssh-exec 0.1.0**
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- 1.501 node-uuid 1.4.1**
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- 1.503 node-uuid 1.4.3**
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- 1.504 node-zookeeper-client 0.2.1**
 - 1.504.1 Available under license
- 1.505 nodejs 0.10.32 :1.el7**
 - 1.505.1 Available under license
- 1.506 nodejs-abbrev 1.0.4 :6.el7**
 - 1.506.1 Available under license
- 1.507 nodejs-ansi 0.2.1 :1.el7**
 - 1.507.1 Available under license
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- 1.509 nodejs-asn1 0.1.11 :3.el7**
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- 1.510 nodejs-assert-plus 0.1.4 :1.el7**
 - 1.510.1 Available under license
- 1.511 nodejs-async 0.2.10 :1.el7**
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- 1.513 nodejs-block-stream 0.0.7 :1.e17**
 - 1.513.1 Available under license
- 1.514 nodejs-boom 0.4.2 :2.e17**
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- 1.515 nodejs-child-process-close 0.1.1 :2.e17**
 - 1.515.1 Available under license
- 1.516 nodejs-chmodr 0.1.0 :4.e17**
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- 1.517 nodejs-chownr 0.0.1 :9.e17**
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- 1.519 nodejs-combined-stream 0.0.4 :3.e17**
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- 1.520 nodejs-config-chain 1.1.7 :1.e17**
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- 1.521 nodejs-cookie-jar 0.3.0 :1.e17**
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- 1.522 nodejs-couch-login 0.1.18 :1.e17**
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- 1.523 nodejs-cryptiles 0.2.2 :1.e17**
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- 1.524 nodejs-ctype 0.5.3**
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- 1.525 nodejs-delayed-stream 0.0.5 :5.e17**
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- 1.526 nodejs-editor 0.0.4 :2.e17**
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- 1.527 nodejs-forever-agent 0.5.0 :1.e17**
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- 1.529 nodejs-fstream 0.1.24 :1.e17**
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- 1.530 nodejs-fstream-ignore 0.0.7 :1.e17**
 - 1.530.1 Available under license
- 1.531 nodejs-fstream-npm 0.1.5 :1.e17**
 - 1.531.1 Available under license
- 1.532 nodejs-github-url-from-git 1.1.1 :2.e17**

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1.551 nodejs-npm-registry-client 0.2.28 :1.el7
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1.555 nodejs-oauth-sign 0.3.0 :1.e17

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1.609 piranha 0.8.6 :4.el7.centos.2
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1.625 python-boto 2.32.1 :1.el7

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1.629 python-lxml_GPLv2 3.2.1 :4.el7

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- 1.630 python-lxml_PSFv2.x 3.2.1 :4.el7**
 - 1.630.1 Available under license
- 1.631 python-markdown 2.4.1 :1.el7**
 - 1.631.1 Available under license
- 1.632 python-pip 1.3.1 :4.el7**
 - 1.632.1 Available under license
- 1.633 python-pip_CA-Root-Certificates 1.3.1 :4.el7**
 - 1.633.1 Available under license
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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
```

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

1.17 ansi-styles 2.0.1

1.17.1 Available under license :

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 0.1.16

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1.19 argparse 1.0.2

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1.21 asn1 0.1.11

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1.23 assert 1.1.2

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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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1.28 async 0.6.2

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1.29 async 0.2.10

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1.31 **async 0.9.0**

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

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

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1.34 attr/libattr 2.4.46 :12.e17

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1.37 balanced-match 0.2.0

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1.38 base64-js 0.0.8

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1.39 base64-url 1.2.1

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1.40 base64id 0.1.0

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1.41 basic-auth 1.0.1

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1.42 basic-auth 1.0.0

1.42.1 Available under license :

```
# basic-auth
```

```
Generic basic auth Authorization header field parser for whatever.
```

```
## Installation
```

```
---
```

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

```
---
```

```
## Example
```

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

```
```js
```

```
var auth = require('basic-auth');
```

```
var user = auth(req);
```

```
// => { name: 'something', pass: 'whatever' }
```

```

```

```
License
```

```
MIT
```

# 1.43 basic-auth-connect 1.0.0

## 1.43.1 Available under license :

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

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

## API

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

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

Simple username and password

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

Callback verification

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

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

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

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## 1.44 batch 0.5.0

### 1.44.1 Available under license :

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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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SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
```

## 1.46 binary 0.3.0

### 1.46.1 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"
 }
}

```

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

### 1.47.1 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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```

## 1.48 bindings 1.2.1

### 1.48.1 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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-----

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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.`

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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 bit-array 0.2.2

1.50.1 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>
</dl>
```

`<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

1.51 bitsyntax 0.0.4

1.51.1 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"
```

1.52 bl 0.9.4

1.52.1 Available under license :

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1.53 bluebird 2.9.26

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1.54 body-parser 1.5.2

1.54.1 Available under license :

body-parser

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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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1.55 body-parser 1.10.2

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1.59 boom 2.6.1

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1.60 boom 2.7.2

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1.62 boost 1.55 :0

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[/=====

Boost.Geometry (aka GGL, Generic Geometry Library)

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1.63 boost - caramel 1.55 :0

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1.64 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.

[![build status](https://secure.travis-ci.org/juliangruber/brace-expansion.svg)](http://travis-ci.org/juliangruber/brace-expansion)

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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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1.65 bson 0.2.21

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1.68 bson 0.2.2

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1.69 bson 0.1.4

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1.70 buffer 3.0.1

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1.71 Buffer 0.0.0

1.71.1 Available under license :

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

1.72 buffer-crc32 0.1.1

1.72.1 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"
```

1.73 buffer-crc32 0.2.1

1.73.1 Available under license :

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1.74 buffer-crc32 0.2.3

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1.75 buffer-more-ints 0.0.2

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1.76 buffers 0.1.1

1.76.1 Available under license :

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1.77 bunyan 0.21.4

1.77.1 Available under license :

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1.78 bytes 0.1.0

1.78.1 Available under license :

```
# 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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1.79 bytes 1.0.0

1.79.1 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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1.80 bytes 0.2.0

1.80.1 Available under license :

```
# 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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1.81 bytes 0.2.1

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1.82 bytes 2.1.0

1.82.1 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	<code>`string`</code>	String to parse.

**\*\*Returns\*\***

Name	Type	Description
results	<code>`number`&amp;#124;`null`</code>	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)
```

## 1.83 camelcase 1.1.0



## 1.83.1 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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## 1.84 cancelable 0.1.0

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## 1.85 caseless 0.9.0

### 1.85.1 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"
}
}
```

## 1.86 caseless 0.8.0

### 1.86.1 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"
 }
}
```

# 1.87 caseless 0.10.0

## 1.87.1 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"
 }
}
```

# 1.88 CentOS-MOS 7 :2.4.0

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Version 3, 29 June 2007

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# 1.89 chainsaw 0.1.0

## 1.89.1 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" }
}
```

# 1.90 chalk 1.0.0

## 1.90.1 Available under license :

```
<h1 align="center">

</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](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`.

## License

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## 1.91 character-parser 1.0.2

### 1.91.1 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
```

1.92 character-parser 1.2.1

1.92.1 Available under license :

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1.96 cloud-init 0.7.5 :6.el7

1.96.1 Available under license :

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Version 3, 29 June 2007

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1.102 combined-stream 1.0.3

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1.103 commander 2.1.0

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1.104 commander 2.7.1

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Commander.js

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

Installation

```
$ npm install commander
```

Option parsing

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

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

/**
 * Module dependencies.
 */

var program = require('commander');

program
 .version('0.0.1')
 .option('-p, --peppers', 'Add peppers')
 .option('-P, --pineapple', 'Add pineapple')
 .option('-b, --bbq', '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 `-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
```

```
MIT
```

1.105 commander 0.6.1

1.105.1 Available under license :

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1.106 commander 2.8.1

1.106.1 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>.', '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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1.107 commander 2.6.0

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Commander.js

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

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[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);
...

```

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 `-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.

```
## .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.

```
## License
```

```
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```

```
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```

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1.108 commander 2.0.0

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```
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```

```
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```

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1.109 commander 1.3.2

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/*!

* commander

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*/

1.110 commander 1.2.0

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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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## 1.111 compressible 1.0.0

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```
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.

```
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```

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## 1.112 compressible 2.0.2

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## 1.113 compression 1.4.1

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```
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

```
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```

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## 1.117 concat-map 0.0.1

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## 1.119 connect 2.29.1

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## 1.121 connect 2.14.1



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## 1.129 connect-timeout 1.0.0

### 1.129.1 Available under license :

# 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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## 1.138 cookie 0.1.3

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## 1.142 cookie 0.0.5

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"author": "Roman Shtylman <shtylman@gmail.com>",

"url": "git://github.com/shtylman/node-cookie.git"

## 1.143 cookie-parser 1.3.2

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# 1.145 cookie-parser 1.0.1

## 1.145.1 Available under license :

```
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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```

## 1.146 cookie-parser 1.3.5

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## 1.147 cookie-signature 1.0.5

### 1.147.1 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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## 1.148 cookie-signature 1.0.4

### 1.148.1 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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1.149 cookie-signature 1.0.3

1.149.1 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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1.150 cookie-signature 0.0.1

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.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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## 1.151 cookie-signature 1.0.6

### 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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1.152 cookie-signature 1.0.1

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1.153 cookiejar 1.3.0

1.153.1 Available under license :

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"author": "bradleymeck"

1.154 core-util-is 1.0.1

1.154.1 Available under license :

```
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// OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE
// USE OR OTHER DEALINGS IN THE SOFTWARE.
```

1.155 coveralls 2.11.2

1.155.1 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"
}
```

1.156 crc 3.2.1

1.156.1 Available under license :

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1.157 cryptiles 0.2.2

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1.158 cryptiles 2.0.4

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1.159 crypto 0.0.3

1.159.1 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"
  }]
}
```

1.160 csrf 2.0.6

1.160.1 Available under license :

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1.162 css 1.0.8

1.162.1 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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## 1.163 css-parse 1.0.4

### 1.163.1 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.

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## 1.164 css-stringify 1.0.5

### 1.164.1 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
```

```
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```

```
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```

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```

## 1.165 cssom 0.2.5

## 1.165.1 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"
 }
}
```

## 1.166 cssom 0.3.0

### 1.166.1 Available under license :

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## 1.168 cssstyle 0.2.23

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## 1.169 csurf 1.0.0

### 1.169.1 Available under license :

```
{
 "name": "csurf",
 "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/csurf.git"
 },
 "bugs": {
 "mail": "me@jongleberry.com",
 "url": "https://github.com/expressjs/csurf/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"
}
}
```

## 1.170 csurf 1.7.0

### 1.170.1 Available under license :

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## 1.172 cycle 1.0.3

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

## 1.173 cyrus-sasl/libdes 2.1.26 :17.el7

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## 1.175 dateutil 0.1.0

### 1.175.1 Available under license :

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## 1.176 debug 1.0.4

### 1.176.1 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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## 1.177 debug 0.8.1

### 1.177.1 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.

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```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)
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```

```

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

```

```

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

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

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

```

### ## License

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## 1.178 debug 0.7.4

### 1.178.1 Available under license :

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## 1.179 debug 2.1.3

### 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:

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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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1.180 debug 0.8.0

1.180.1 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

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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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1.181 debug 2.2.0

1.181.1 Available under license :

debug

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

Installation

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

Usage

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```js
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, 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

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```
```

Example `_worker.js``:

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

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

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

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

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

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

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Colored output looks something like:

stderr vs stdout

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

```

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

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

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

```

### Save debug output to a file

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

Example:

```

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

```

Authors

- TJ Holowaychuk
- Nathan Rajlich

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1.182 debug 2.1.1

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``. 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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# 1.183 decamelize 1.0.0

## 1.183.1 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.

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## 1.184 deep-diff 0.1.7

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## 1.189 depd 1.0.1

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## 1.190 depd 0.4.4

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## 1.192 dequeue 1.0.3

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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/" }
```

## 1.193 destroy 1.0.3

### 1.193.1 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>
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[gittip-image]: <https://img.shields.io/gittip/jonathanong.svg?style=flat-square>
[gittip-url]: <https://www.gittip.com/jonathanong/>

1.194 dhcp/bind 4.2.5 :27.el7.centos

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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

1.195 dhcp/bind/contrib 4.2.5 :27.el7.centos

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```
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#
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#                 dhclient based on DHCP client communication
#
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```

```
# Author(s): David Cantrell <dcantrell@redhat.com>
#           Jiri Popelka <jpopelka@redhat.com>
#
# -----
# This script is a rewrite/reworking on dhclient-script originally
# included as part of dhcp-970306:
# dhclient-script for Linux. Dan Halbert, March, 1997.
# Updated for Linux 2.[12] by Brian J. Murrell, January 1999.
# Modified by David Cantrell <dcantrell@redhat.com> for Fedora and RHEL
# -----
#
```

1.196 dhcp/dhclient-script 4.2.5 :27.el7.centos

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#                 dhclient based on DHCP client communication
#
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# Author(s): David Cantrell <dcantrell@redhat.com>
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#
# -----
# This script is a rewrite/reworking on dhclient-script originally
# included as part of dhcp-970306:
# dhclient-script for Linux. Dan Halbert, March, 1997.
# Updated for Linux 2.[12] by Brian J. Murrell, January 1999.
# Modified by David Cantrell <dcantrell@redhat.com> for Fedora and RHEL
```

#

1.197 dhcping 1.2 :13.e17

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1.198 diff 1.0.7

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1.199 diskspace 0.1.7

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1.200 docco 0.4.0

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1.202 dtrace-provider 0.2.8

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1.203 ee-first 1.1.0

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1.204 ee-first 1.0.3

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1.205 elasticsearch 1.1.1 :1

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1.206 elementtree 0.1.6

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node-elementtree

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1.207 emitter-component 1.0.0

1.207.1 Available under license :

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1.208 enum 0.2.5

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1.209 enum 0.2.7

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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.github.com/adrai/enum/master/enum-0.2.7.js) |  
| `enum-0.2.7.min.js` | *compressed, without comments* | [Download](https://raw.github.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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1.210 epel-release 7 :2

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```

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1.211 erlang R16B

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/* This is the public header file for the PCRE library, to be #included by
applications that call the PCRE functions.

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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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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](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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[PCRE]

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

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Cambridge, England.

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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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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](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

*/

[edoc, syntax_tools]

```
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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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<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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1.213 errorhandler 1.3.5

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1.214 errorhandler 1.0.0

1.214.1 Available under license :

Error Handler

Previously `connect.errorHandler()`.

Usage:

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

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1.215 errorhandler 1.3.4

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1.216 errorhandler 1.1.1

1.216.1 Available under license :

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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1.217 errorhandler 1.3.6

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1.218 escape-html 1.0.1

1.218.1 Available under license :

```
# escape-html
```

```
Escape HTML entities
```

```
## Example
```

```
```js
var escape = require('escape-html');
escape(str);
```

```
...
```

```
License
```

```
MIT
```

## 1.219 escape-string-regexp 1.0.3

### 1.219.1 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)
```

## 1.220 escodegen 1.3.3

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## 1.221 esprima 1.2.5

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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>).

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- Optional tracking of syntax node location (index-based and line-column)
- Heavily tested (> 600 [unit tests] (<http://esprima.org/test/>)) with solid statement and branch coverage)

- 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).

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## 1.223 esprima 2.0.0

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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

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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).

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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://mbenita.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>)
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## 1.225 estraverse 1.5.1

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## 1.226 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.

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## 1.231 eventlog 0.2.13 :4.el7

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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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## 1.232 events 1.0.2

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## 1.233 events 1.0.0

### 1.233.1 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 <rfofic@gmail.com> (http://jedtoolkit.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://jedtoolkit.com/LICENSE"
 }
]
}

```

## 1.234 expat\_PrintPath 2.1.0 :8.e17

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# 1.235 expect 0.1.1

## 1.235.1 Available under license :

[expect](https://github.com/mjijackson/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.

### 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).toNotBe(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).toExclude(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);
```
```

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## 1.236 expect 1.4.0

### 1.236.1 Available under license :

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[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).toNotBe(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).toContain(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 ]).toContain(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 `

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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## 1.237 expect.js 0.3.1

### 1.237.1 Available under license :

# Expect

Minimalistic BDD assertion toolkit based on  
[should.js](http://github.com/visionmedia/should.js)

```
```js
expect(window.r).to.be(undefined);
expect({ a: 'b' }).to.eql({ a: 'b' })
expect(5).to.be.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);
```

```
...
```

**eq**: asserts loose equality that works with objects

```
```js
```

```
expect({ a: 'b' }).to.eq({ a: 'b' });
```

```
expect(1).to.eq('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).toThrowError(); // synonym of throwException
expect(fn).toThrowException(function (e) { // get the exception object
 expect(e).to.be.a(SyntaxError);
});
expect(fn).toThrowException(/matches the exception message/);
expect(fn2).to.not.throwException();
```
```

****withArgs****: creates anonymous function to call `fn` with arguments

```
```js
expect(fn).withArgs(invalid, arg).toThrowException();
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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```
### 3rd-party
```

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1.250 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"
}

```

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1.254 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 <sup>[![Version Badge][8]][3]</sup>
```

`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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finished

[![NPM Version](https://badge.fury.io/js/finished.svg)](http://badge.fury.io/js/finished)
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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()
 })
}
```
```

```
## License
```

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1.269 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>)

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* [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"><br>'+
    '<input type="file" name="upload" multiple="multiple"><br>'+
    '<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

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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

1.270 formidable 1.0.14

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1.271 forwarded 0.1.0

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1.272 fresh 0.1.0

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"author": "TJ Holowaychuk <tj@vision-media.ca> (<http://tjholowaychuk.com>)",

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1.275 fresh 0.2.2

1.275.1 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

```

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## 1.276 fs 0.0.2

### 1.276.1 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"
}

```

## 1.277 fs-ext 0.3.2

### 1.277.1 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" }
}

```

## 1.278 fs-ext 0.4.4

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## 1.279 fs-extra 0.16.5

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## 1.280 generate-function 2.0.0

### 1.280.1 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

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1.281 generate-object-property 1.2.0

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1.282 get-stdin 4.0.1

1.282.1 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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1.283 glob 3.2.11

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1.284 glob 3.2.9

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1.285 glob 3.2.3

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1.286 gmp_GPLv3 5.1.1 :5.e17

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Version 3, 29 June 2007

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1.288 gpm_scripts 1.20.7 :5.e17

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```
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```

```
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```

```
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```

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1.289 graceful-fs 3.0.6

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1.290 graceful-fs 2.0.3

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1.291 graceful-readlink 1.0.1

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1.292 growl 1.7.0

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1.293 gyp 0.1 :0.11.1617svn.el7

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1.294 handlebars 1.3.0

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1.295 har-validator 1.7.1

1.295.1 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]
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[![Code Climate][codeclimate-quality]][codeclimate-url]
[![Coverage Status][codeclimate-coverage]][codeclimate-url]
[![Dependencies][david-image]][david-url]
```

```
## Install
```

```
```shell
```

```
to use in cli
```

```
npm install --global har-validator
```



```

to use as a module
npm install --save har-validator
...

Usage

...

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

Options:

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

Example

```shell
har-validator har.json

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

API

Validate(data [, callback])

Returns `true` or `false`.

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

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

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

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

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

```

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

Returns `true` or `false`.

- **data**: `Object` \*(Required)\*

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

- **callback**: `Function`

gets two arguments (err, valid)

```
```js
```

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

```
validate.log(data, function (e, valid) {
```

```
  if (e) console.log(e.errors)
```

```
});
```

```
```
```

```
Validate.cache(data [, callback])
```

Returns `true` or `false`.

- **data**: `Object` \*(Required)\*

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

- **callback**: `Function`

gets two arguments (err, valid)

```
```js
```

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

```
validate.cache(data, function (e, valid) {
```

```
  if (e) console.log(e.errors)
```

```
});
```

```
```
```

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

Returns `true` or `false`.

- **data**: `Object` \*(Required)\*

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

- **callback**: `Function`

gets two arguments (err, valid)

```
```js
```

```

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

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

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

Returns `true` or `false`.

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

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

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

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

Validate.cookie(data [, callback])

Returns `true` or `false`.

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

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

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

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

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

Returns `true` or `false`.

- **data**: `Object` *(Required)*

```

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

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

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

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

Validate.entry(data [, callback])

Returns `true` or `false`.

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

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

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

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

Validate.log(data [, callback])

alias of [`Validate(data [, callback])`](#validate-data-callback-)

Validate.page(data [, callback])

Returns `true` or `false`.

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

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

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

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

```

```
Validate.pageTimings(data [, callback])
```

Returns `true` or `false`.

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

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

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

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

```

```
### Validate.postData(data [, callback])
```

Returns `true` or `false`.

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

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

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

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

```

```
Validate.record(data [, callback])
```

Returns `true` or `false`.

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

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

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

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

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

Returns `true` or `false`.

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

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

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

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

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

Returns `true` or `false`.

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

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

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

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

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

Returns `true` or `false`.

- **data**: `Object` \*(Required)\*  
a [timings](http://www.softwareishard.com/blog/har-1.2-spec/#timings) object

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

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

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

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## 1.296 has-ansi 1.0.3

### 1.296.1 Available under license :

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

```
^^^
```

```
## License
```

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1.297 hashmap 1.0.0

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1.301 heartbeat 3.0.6 :0rc1.fedora

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Alan Robertson <alanr@unix.sh>
Andreas Mock <andreas.mock@web.de>
Andrew Beekhof <andrew@beekhof.net>
Dave Blaschke <debltc@us.ibm.com>
David Lee <t.d.lee@durham.ac.uk>
Dejan Muhamedagic <dejan@hello-penguin.com>
Hannes Eder <heder@google.com>
Huang Zhen <zhenhltc@cn.ibm.com>
Junko Ikeda <ikedaj@intellilink.co.jp>
Lars Marowsky-Bree <lmb@suse.de>
Martin Bene <martin.bene@icomedias.com>
Phil Carns <carns@mcs.anl.gov>
Satomi Taniguchi <taniguchis@intellilink.co.jp>
Sean Reifschneider <jafo@tummy.com>
Sebastian Reitenbach <itlistuser@rapideye.de>
Serge Dubrouski <sergeyfd@gmail.com>
Simon Horman <horms@verge.net.au>
Xinwei Hu <hxinwei@gmail.com>

Code for the following pieces borrowed from code by:

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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 namespacing 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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---

### Author  
Brian Noguchi

## 1.308 hooks 0.3.2

### 1.308.1 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-riden 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 namespaceing 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)

### ### License

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### Author  
Brian Noguchi

## 1.309 htmlparser 1.7.6

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# 1.310 http 0.0.0

## 1.310.1 Available under license :

```
{
 "name": "http",
 "version": "0.0.0",
 "description": "",
 "main": "index.js",
 "scripts": {
 "test": "echo \"Error: no test specified\" && exit 1"
 },
 "author": "",
 "license": "BSD-2-Clause"
}
```

# 1.311 http-errors 1.3.1

## 1.311.1 Available under license :

The MIT License (MIT)

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# 1.312 http-parser 2.0

**:4.20121128gitcd01361.e17**

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## 1.313 http-proxy 1.11.1

### 1.313.1 Available under license :

node-http-proxy

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## 1.314 http-proxy 1.6.1

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node-http-proxy

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## 1.332 is-array 1.0.1

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```



```

# 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
```
```

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## 1.333 is-my-json-valid 2.12.0

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## 1.344 jemalloc 3.6.0 :1.e17

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# 1.345 jison 0.3.12

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Jison

=====

\* [issues](<http://github.com/zaach/jison/issues>)

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[![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.

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-----

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Special thanks to Jarred Ligatti, Manuel E. Berm andez

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[1]: [http://dinosaur.compilertools.net/bison/bison\\_4.html](http://dinosaur.compilertools.net/bison/bison_4.html)

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# JSON Pointer for nodejs

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

## Usage

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

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

## Testing

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

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

## Author

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AUTHORS

The Data.Dump JavaScript module is written by Kevin Jones (kevinj@cpan.org), based on Data::Dump by Gisle Aas (gisle@as.no), based on Data::Dumper by Gurusamy Sarathy (gsar@umich.edu).

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Norrisboyd 06:16, 14 April 2008 (PDT)

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The Data.Dump JavaScript module is written by Kevin Jones (kevinj@cpan.org), based on Data::Dump by Gisle Aas (gisle@aas.no), based on Data::Dumper by Gurusamy Sarathy (gsar@umich.edu).

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Norrisboyd 06:16, 14 April 2008 (PDT)

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Contributors to bttv:

Michael Chu <mmchu@pobox.com>  
AverMedia fix and more flexible card recognition

Alan Cox <alan@lxorguk.ukuu.org.uk>  
Video4Linux interface and 2.1.x kernel adaptation

Chris Kleitsch  
Hardware I2C

Gerd Knorr <kraxel@cs.tu-berlin.de>  
Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>  
Ragnar Hojland Espinosa <ragnar@macula.net>  
ConferenceTV card

+ many more (please mail me if you are missing in this list and would  
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Ralph Metzler <rjkm@metzlerbros.de>  
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Christoph Martin <martin@uni-mainz.de>  
for his LIRC infrared handler

Andreas Oberritter <obi@linuxtv.org>  
Dennis Noermann <dennis.noermann@noernet.de>

Felix Domke <tmbinc@elitedvb.net>

Florian Schirmer <jolt@tuxbox.org>

Ronny Strutz <3des@elitedvb.de>

Wolfram Joost <dbox2@frokaschwei.de>

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Peter Schildmann <peter.schildmann@web.de>

for the driver for the Technisat SkyStar2 PCI DVB card

Vadim Catana <skystar@moldova.cc>

Roberto Ragusa <r.ragusa@libero.it>

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Michael Dreher <michael@5dot1.de>

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Kenneth Aafly <ke-aa@frisurf.no>

for adding support for Typhoon DVB-S budget card

Ernst Peinlich <e.peinlich@inode.at>

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Peter Beutner <p.beutner@gmx.net>

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for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>  
for the nxt2004 frontend driver

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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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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

```

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```

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

```
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## 1.373 libpng\_gregbook 1.5.13 :5.el7

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```
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```

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```
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```

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```
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# 1.379 libxslt\_GPLv2 1.1.28 :5.e17

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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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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*
*/
/*
* 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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* along with this program; if not, write to the Free Software
* Foundation, Inc., 59 Temple Place - Suite 330, Cambridge, MA 02139, USA.
*
*/

```

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```

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

```

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```
{
 "name": "lodash",
 "version": "1.3.1",
 "description": "A utility library delivering consistency, customization, performance, and extras.",
 "homepage": "http://lodash.com/",
 "license": "MIT",
 "main": "./dist/lodash.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 Bublitz <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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# 1.388 Iodash-node 2.4.1

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## 1.389 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)"

## 1.390 log.io 0.3.4

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# 1.391 log4js 0.6.10

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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
- \* 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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1.392 log4js 0.6.12

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- * 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.

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See the [wiki](https://github.com/nomiddlename/log4js-node/wiki). Improve the [wiki](https://github.com/nomiddlename/log4js-node/wiki), please.

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## 1.393 log4js 0.6.22

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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

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- \* SMTP appender
- \* GELF appender
- \* hook.io appender
- \* Loggly appender
- \* Logstash UDP appender
- \* multiprocess appender (useful when you've got worker processes)
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- \* configurable log message layout/patterns
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```javascript
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  appenders: [
    { type: "console" }
  ],
  replaceConsole: true
}
```
```

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```
npm install log4js
```

## usage

Minimalist version:

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```javascript
var log4js = require('log4js');
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logger.setLevel('ERROR');

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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!
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```

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  ]
});
```
```

## 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.

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# 1.394 log4js 0.6.9

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## 1.395 log4js 0.5.8

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# 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

\* 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 [\[wiki\]\(log4js-node/wiki/Appenders\)](#), 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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1.396 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"
```

1.397 Iolex 1.1.0

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1.398 Iru-cache 2.6.4

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Authors, sorted by whether or not they are me

Isaac Z. Schlueter <i@izs.me>

Brian Cottingham <spiffytech@gmail.com>

Carlos Brito Lage <carlos@carloslage.net>

Jesse Dailey <jesse.dailey@gmail.com>

Kevin O'Hara <kevinohara80@gmail.com>

Marco Rogers <marco.rogers@gmail.com>

Mark Cavage <mcavage@gmail.com>

Marko Mikulicic <marko.mikulicic@isti.cnr.it>

Nathan Rajlich <nathan@tootallnate.net>

Satheesh Natesan <snateshan@myspace-inc.com>

Trent Mick <trentm@gmail.com>

ashleybrener <ashley@starlogik.com>

n4kz <n4kz@n4kz.com>

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1.400 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)
```

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

```
[![Coverage Status](https://img.shields.io/coveralls/expressjs/media-typer.svg?branch=master)](https://coveralls.io/r/expressjs/media-typer)
```

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(req)
```
```

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)`.

```
## License
```

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1.401 media-typer 0.3.0

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1.402 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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## 1.405 method-override 2.3.3

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## 1.406 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 `csrf`` 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())
```
```

```
License
```

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## 1.409 method-override 1.0.0

### 1.409.1 Available under license :

# 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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## 1.414 methods 0.0.1

### 1.414.1 Available under license :

```
{
 "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"
}
```

## 1.415 mime 1.3.4

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## 1.427 minimatch 2.0.8

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```
{
 "author": "Isaac Z. Schlueter <i@izs.me> (http://blog.izs.me)",
 "name": "minimatch",
 "description": "a glob matcher in javascript",
 "version": "2.0.8",
 "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"
]
}
```

## 1.428 minimatch 0.2.14

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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"
]
}
```

]
}

# 1.431 minimatch 0.3.0

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# 1.444 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>)

#### Replicaset

=====

For more information about how to connect to a replicaset have a look at [Replicaset](<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)

Contributors

=====

Aaron Heckmann, Christoph Pojer, Pau Ramon Revilla, Nathan White, Emmerman, Seth LaForge, Boris Filipov,

Stefan Schärmeli, Tedde Lundgren, renctan, Sergey Ukustov, Ciaran Jessup, kuno, srimonti, Erik Abele, Pratik Daga, Slobodan Utvic, Kristina Chodorow, Yonathan Randolph, Brian Noguchi, Sam Epstein, James Harrison Fisher, Vladimir Dronnikov, Ben Hockey, Henrik Johansson, Simon Weare, Alex Gorbachev, Shimon Doodkin, Kyle Mueller, Eran Hammer-Lahav, Marcin Ciszak, François de Metz, Vinay Pulim, nstielau, Adam Wiggins, entrinzykyl, Jeremy Selier, Ian Millington, Public Keating, andrewjstone, Christopher Stott, Corey Jewett, brettkiefer, Rob Holland, Senmiao Liu, heroic, gitfy

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Upstream Authors:

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

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1.449 mongoose 3.9.7

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Mongoose

Mongoose is a [MongoDB](<http://www.mongodb.org/>) object modeling tool designed to work in an asynchronous environment.

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Documentation

mongoosejs.com

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- [bug reports](https://github.com/learnboost/mongoose/issues/)
- [help forum](http://groups.google.com/group/mongoose-orm)
- [MongoDB support](http://www.mongodb.org/display/DOCS/Technical+Support)
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Contributors

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Live Examples

[!\[\]\(f95dab70c751fda7d824b8b03650f7aa_img.jpg\)](http://runnable.com/mongoose)

Installation

First install [node.js](http://nodejs.org/) and [mongodb](http://www.mongodb.org/downloads). Then:

```
``sh
$ npm install mongoose
``
```

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.

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``.


```

```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.

Defining a Model

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
});
```

```

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)
- * [Getters](http://mongoosejs.com/docs/api.html#schematype_SchemaType-get)
- * [Setters](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:

```

```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.

### ### Accessing a Model

Once we define a model through `mongoose.model('ModelName', mySchema)`, we can access it through the same function

```

```js
var myModel = mongoose.model('ModelName');
```

```

Or just do it all at once

```

```js
var MyModel = mongoose.model('ModelName', mySchema);
```

```

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

```

```js
```

```

```
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:

```
```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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# 1.450 mongoose 3.8.25

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## Documentation

[mongoosejs.com](http://mongoosejs.com/)

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- [MongoDB support](http://www.mongodb.org/display/DOCS/Technical+Support)
- (irc) #mongoosejs on freenode

## ## Plugins

Check out the [plugins search site](http://plugins.mongoosejs.com/) to see hundreds of related modules from the community.

Build your own Mongoose plugin through [generator-mongoose-plugin](https://github.com/huei90/generator-mongoose-plugin).

## ## Contributors

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## ## Live Examples

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Both `connect`` and `createConnection`` take a `mongodb://` URI, or the parameters host, database, port, options`.`

```
``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`.

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Models are defined through the `Schema` interface.

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  , 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:

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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'));
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Take a look at the example in `examples/schema.js` for an end-to-end example of a typical setup.

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  //
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```

Or we can find documents from the same collection

```

```js
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```js
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m.save(); // works
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vs

```
```js
var conn = mongoose.createConnection('your connection string')
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```
```

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```
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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) {
  // 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).

## License

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## 1.451 mongoose 3.6.17

### 1.451.1 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 href="https://runnable.com/#learnboost/mongoose/code.js/launch" target="\_blank"></a>

## 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)
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## ## 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))
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- \* [Indexes](<http://mongoosejs.com/docs/guide.html#indexes>)
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- \* [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:

```
var conn = mongoose.createConnection('your connection string');
var MyModel = conn.model('ModelName', schema);
var m = new MyModel;
m.save() // works
```

vs

```
var conn = mongoose.createConnection('your connection string');
var MyModel = mongoose.model('ModelName', schema);
var 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:



```

// 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:

```

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.

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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:

```

schema.pre('set', function (next, path, val, typel) {
 // `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`:

```
.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
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 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:

```
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 by [dox](http://github.com/visionmedia/dox).

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# 1.452 mongoose 3.8.24

## 1.452.1 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=3.8.x)(https://travis-ci.org/LearnBoost/mongoose)

## Documentation

[mongoosejs.com](http://mongoosejs.com/)

## 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)
- [MongoDB support](http://www.mongodb.org/display/DOCS/Technical+Support)
- (irc) #mongoosejs on freenode

## ## Plugins

Check out the [plugins search site](http://plugins.mongoosejs.com/) to see hundreds of related modules from the community.

Build your own Mongoose plugin through [generator-mongoose-plugin](https://github.com/huei90/generator-mongoose-plugin).

## ## Contributors

View all 100+ [contributors](https://github.com/learnboost/mongoose/graphs/contributors). Stand up and be counted as a [contributor](https://github.com/LearnBoost/mongoose/blob/master/CONTRIBUTING.md) too!

## ## Live Examples

[!\[\]\(ec9132f1d27c8919987d92907322654d\_img.jpg\)](https://runnable.com/mongoose)

## ## Installation

First install [node.js](http://nodejs.org/) and [mongodb](http://www.mongodb.org/downloads). Then:

```
```sh
$ npm install mongoose
```
```

## ## 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.

## ## 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`.`

```
```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.

Defining a Model

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
});
```

```

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)
- * [Getters](http://mongoosejs.com/docs/api.html#schematype_SchemaType-get)
- * [Setters](http://mongoosejs.com/docs/api.html#schematype_SchemaType-set)
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- * [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:

```
```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.

Accessing a Model

Once we define a model through `mongoose.model('ModelName', mySchema)`, we can access it through the same function

```

```js
var myModel = mongoose.model('ModelName');
...

```

Or just do it all at once

```

```js
var MyModel = mongoose.model('ModelName', mySchema);
...

```

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

```

```js
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:

```
```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) {
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 post.comments[0].remove();
 post.save(function (err) {
 // do something
 });
 }
});
```
```

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```
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 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.

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## 1.453 mongoose-paginate 3.1.0

### 1.453.1 Available under license :

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## 1.454 monacle 0.1.50

### 1.454.1 Available under license :

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## 1.455 morgan 1.2.2

### 1.455.1 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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## 1.456 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.

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## 1.457 morgan 1.5.3

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## 1.461 mpromise 0.2.1

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## 1.462 mpromise 0.4.3

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## 1.464 mquery 1.0.0

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# 1.465 mquery 0.8.0

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# 1.466 ms 0.1.0

## 1.466.1 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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# 1.467 ms 0.7.0

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# 1.469 ms 0.6.2

## 1.469.1 Available under license :

# 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

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## 1.470 multiparty 3.3.2

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## 1.471 multiparty 2.2.0

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## 1.472 muri 0.3.1

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## 1.473 mute-stream 0.0.4

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## 1.474 mv 0.0.5

### 1.474.1 Available under license :

```
{
 "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"
}
}
```

# 1.475 mz 1.3.0

## 1.475.1 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>

[david-url]: <https://david-dm.org/normalize/mz>

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```
"author": "AJ ONeal <coolaj86@gmail.com> (http://coolaj86.info)",
"url": "git://github.com/coolaj86/node-navigator.git"
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## 1.497 node-getopt 0.2.3

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## 1.498 node-gyp 0.10.6 :2.e17

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```
"author": {
```

## 1.500 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"
}
}
```

## 1.501 node-uuid 1.4.1

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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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```
""
```

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```
""
```

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.4, March 14th, 2010
```

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Jean-loup Gailly  
Mark Adler

```
*/
""
```

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Tim Koschützki (tim@debuggable.com)

Felix Geisendörfer (felix@debuggable.com)

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

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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"author": "Heather Arthur <fayearthur@gmail.com>",
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## 1.582 nomnom 1.6.2

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Version 1.1

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### 1.599.1 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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```

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1.600 os-monitor 0.1.5

1.600.1 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": {}  
}
```

1.601 packet 0.0.6

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1.602 packpath 0.1.0

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1.603 parseurl 1.0.1

1.603.1 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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1.604 path 0.4.9

1.604.1 Available under license :

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```
"author": "Joyent (http://www.joyent.com)",  
"url": "git://github.com/coolaj86/nodejs-libs-4-browser.git"
```

1.605 path 0.11.14

1.605.1 Available under license :

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1.606 path-to-regexp 0.1.3

1.606.1 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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1.607 path-to-regexp 0.1.2

1.607.1 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\/(?:([^\/]�?))\/?$/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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1.608 pause 0.0.1

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1.609 piranha 0.8.6 :4.el7.centos.2

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```

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```
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under certain conditions; type `show c' for details.
```

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```
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```

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Ty Coon, President of Vice

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1.610 pkginfo 0.3.0

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1.611 pkginfo 0.2.3

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

1.612 policyfile 0.0.4

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1.613 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"
```

1.614 posix 2.0.0

1.614.1 Available under license :

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1.615 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"
}
```

1.616 process 0.5.2

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1.617 process 0.6.0

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1.618 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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1.619 prompt 0.2.14

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1.620 proxy-addr 1.0.6

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1.621 proxy-addr 1.0.7

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1.623 punycode 1.3.2

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1.624 puppet 3.7.4 :1.el7

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```
# ZAML -- A partial replacement for YAML, written with speed and code clarity
#   in mind. ZAML fixes one YAML bug (loading Exceptions) and provides
#   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.
#
# http://github.com/hallettj/zaml
#
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```

1.625 python-boto 2.32.1 :1.el7

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```

1.626 python-cheetah 2.4.4 :4.el7

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1.627 python-jsonpatch 1.2 :2.e17

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1.628 python-jsonpointer 1.0 :2.e17

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1.629 python-xml_GPLv2 3.2.1 :4.e17

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1.630 python-lxml_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

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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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1.631 python-markdown 2.4.1 :1.e17

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1.632 python-pip 1.3.1 :4.e17

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1.633 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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1.634 python-prettytable 0.7.2 :1.e17

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```

1.635 python-pygments_GPLv3 1.4 :9.e17

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V# Whom: Hye-Shik Chang <perky@FreeBSD.org>\u000a
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VBINLINKS_SUB
p740
tp741
a(g353
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},'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
a(g100
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
a(g353
V=
tp961
a(g255
V"\${PTHREAD_LIBS} \${LDFLAGS}"
p962
tp963
a(g6
V\u000a
tp964
a(g27
V.else\u000a
p965
tp966
a(g6
V
tp967
a(g6
VCONFIGURE_ARGS+
p968
tp969
a(g353
V=
tp970
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
a(g6
V
tp977
a(g6
VCONFIGURE_ENV+
p978
tp979
a(g353
V=
tp980
a(g6
V
p981
tp982
a(g100
VLDLAGS
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
a(g6
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
a(g6
V
tp1040
a(g6
VPLIST_SUB+
p1041
tp1042
a(g353
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
a(g255
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
p1131
tp1132
a(g6
V
tp1133
a(g6
VCONFIGURE_ARGS+
p1134
tp1135
a(g353
V=
tp1136
a(g6
V
tp1137
a(g6

V--enable-ipv6
p1138
tp1139
a(g6
V\u000a
tp1140
a(g27
V.else\u000a
p1141
tp1142
a(g6
V
tp1143
a(g6
VCONFIGURE_ARGS+
p1144
tp1145
a(g353
V=
tp1146
a(g6
V
tp1147
a(g6
V--disable-ipv6
p1148
tp1149
a(g6
V\u000a
tp1150
a(g27
V.endif\u000a
p1151
tp1152
a(g6
V\u000a
tp1153
a(g27
V.if defined(WITH_FPECTL)\u000a
p1154
tp1155
a(g6
V
tp1156
a(g6
VCONFIGURE_ARGS+
p1157
tp1158

a(g353
V=
tp1159
a(g6
V
tp1160
a(g6
V--with-fpectl
p1161
tp1162
a(g6
V\u000a
tp1163
a(g27
V.endif\u000a
p1164
tp1165
a(g6
V\u000a
tp1166
a(g27
V.if \${OSVERSION} >= 700000\u000a
p1167
tp1168
a(g6
V
tp1169
a(g100
VPLATFORMS
p1170
tp1171
a(g353
V=
tp1172
a(g6
Vplat-freebsd4
p1173
tp1174
a(g6
V
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
a(g6
V
tp1184
a(g100
VPLATFORMS
p1185
tp1186
a(g353
V=
tp1187
a(g6
Vplat-freebsd4
p1188
tp1189
a(g6
V
tp1190
a(g6
Vplat-freebsd5
p1191
tp1192
a(g6
V
tp1193
a(g6
Vplat-freebsd7
p1194
tp1195
a(g6
V\u000a
tp1196
a(g27
V.else\u000a
p1197
tp1198
a(g6
V

tp1199
a(g100
VPLATFORMS
p1200
tp1201
a(g353
V=
tp1202
a(g6
Vplat-freebsd4
p1203
tp1204
a(g6
V
tp1205
a(g6
Vplat-freebsd6
p1206
tp1207
a(g6
V
tp1208
a(g6
Vplat-freebsd7
p1209
tp1210
a(g6
V\u000a
tp1211
a(g27
V.endif\u000a
p1212
tp1213
a(g6
V\u000a
tp1214
a(g6
Vpre-patch:
p1215
tp1216
a(g6
V\u000a
p1217
tp1218
a(g138
V\${
p1219
tp1220

a(g100
VMKDIR
p1221
tp1222
a(g138
V}
tp1223
a(g6
V
tp1224
a(g138
V\${
p1225
tp1226
a(g100
VWRKSR
p1227
tp1228
a(g138
V}
tp1229
a(g6
V
tp1230
a(g138
V\${
p1231
tp1232
a(g100
VSHARED_W
p1233
tp1234
a(g138
V}
tp1235
a(g6
V/Modules
p1236
tp1237
a(g6
V\u000a
p1238
tp1239
a(g138
V\${
p1240
tp1241
a(g100

VSED
p1242
tp1243
a(g138
V}
tp1244
a(g6
V
tp1245
a(g6
V-e
p1246
tp1247
a(g6
V
tp1248
a(g281
V'1s,^.*\$\$,#!\${PREFIX}/bin/\${PYTHON_VERSION},'
p1249
tp1250
a(g6
V
tp1251
a(g262
V\u005c\u000a
p1252
tp1253
a(g6
V
p1254
tp1255
a(g138
V\${
p1256
tp1257
a(g100
VPATCH_WRKSRC
p1258
tp1259
a(g138
V}
tp1260
a(g6
V/Tools/scripts/pydoc
p1261
tp1262
a(g6
V

tp1263
a(g6
V>
tp1264
a(g6
V
tp1265
a(g138
V\${
p1266
tp1267
a(g100
VWRKDIR
p1268
tp1269
a(g138
V}
tp1270
a(g6
V/pydoc2.5
p1271
tp1272
a(g6
V\u000a
p1273
tp1274
a(g138
V\${
p1275
tp1276
a(g100
VSED
p1277
tp1278
a(g138
V}
tp1279
a(g6
V
tp1280
a(g6
V-e
p1281
tp1282
a(g6
V
tp1283
a(g281

V'1s,^.*\$\$,#!\${PREFIX}/bin/\${PYTHON_VERSION},'
p1284
tp1285
a(g6
V
tp1286
a(g262
V\u005c\u000a
p1287
tp1288
a(g6
V
p1289
tp1290
a(g138
V\${
p1291
tp1292
a(g100
VPATCH_WRKSRC
p1293
tp1294
a(g138
V}
tp1295
a(g6
V/Tools/scripts/idle
p1296
tp1297
a(g6
V
tp1298
a(g6
V>
tp1299
a(g6
V
tp1300
a(g138
V\${
p1301
tp1302
a(g100
VWRKDIR
p1303
tp1304
a(g138
V}

tp1305
a(g6
V/idle2.5
p1306
tp1307
a(g6
V\u000a
p1308
tp1309
a(g138
V\${
p1310
tp1311
a(g100
VSED
p1312
tp1313
a(g138
V}
tp1314
a(g6
V
tp1315
a(g6
V-e
p1316
tp1317
a(g6
V
tp1318
a(g281
V'1s,^.*\$\$,#!\${PREFIX}/bin/\${PYTHON_VERSION},'
p1319
tp1320
a(g6
V
tp1321
a(g262
V\u005c\u000a
p1322
tp1323
a(g6
V
p1324
tp1325
a(g138
V\${
p1326

tp1327
a(g100
VPATCH_WRKSRC
p1328
tp1329
a(g138
V}
tp1330
a(g6
V/Lib/smtpd.py
p1331
tp1332
a(g6
V
tp1333
a(g6
V>
tp1334
a(g6
V
tp1335
a(g138
V\${
p1336
tp1337
a(g100
VWRKDIR
p1338
tp1339
a(g138
V}
tp1340
a(g6
V/smtpd2.5.py
p1341
tp1342
a(g6
V\u000a
p1343
tp1344
a(g138
V\${
p1345
tp1346
a(g100
VREINPLACE_CMD
p1347
tp1348

a(g138
V}
tp1349
a(g6
V
tp1350
a(g6
V-e
p1351
tp1352
a(g6
V
tp1353
a(g262
V\u005c\u000a
p1354
tp1355
a(g6
V
p1356
tp1357
a(g281
V's,/usr/doc/python-docs-,{PREFIX}/share/doc/python,g'
p1358
tp1359
a(g6
V
tp1360
a(g262
V\u005c\u000a
p1361
tp1362
a(g6
V
p1363
tp1364
a(g138
V\${
p1365
tp1366
a(g100
VPATCH_WRKSRC
p1367
tp1368
a(g138
V}
tp1369
a(g6

V/Lib/pydoc.py
p1370
tp1371
a(g6
V\u000a
p1372
tp1373
a(g138
V\${
p1374
tp1375
a(g100
VREINPLACE_CMD
p1376
tp1377
a(g138
V}
tp1378
a(g6
V
tp1379
a(g6
V-e
p1380
tp1381
a(g6
V
tp1382
a(g262
V\u005c\u000a
p1383
tp1384
a(g6
V
p1385
tp1386
a(g281
V's|^)\u005c(*prefixes = .*\u005c)\u005c]\$\$\u005c1, "\${X11BASE}"]|g'
p1387
tp1388
a(g6
V
tp1389
a(g262
V\u005c\u000a
p1390
tp1391
a(g6

V
p1392
tp1393
a(g138
V\${
p1394
tp1395
a(g100
VPATCH_WRKSRC
p1396
tp1397
a(g138
V}
tp1398
a(g6
V/Lib/site.py
p1399
tp1400
a(g6
V\u000a
p1401
tp1402
a(g138
V\${
p1403
tp1404
a(g100
VREINPLACE_CMD
p1405
tp1406
a(g138
V}
tp1407
a(g6
V
tp1408
a(g6
V-e
p1409
tp1410
a(g6
V
tp1411
a(g262
V\u005c\u000a
p1412
tp1413
a(g6

V
p1414
tp1415
a(g281
V's|^ \u005c(..ASDLGEN.*\u005c)\$ \$ {TRUE} |g'
p1416
tp1417
a(g6
V
tp1418
a(g262
V\u005c\u000a
p1419
tp1420
a(g6
V
p1421
tp1422
a(g138
V\${
p1423
tp1424
a(g100
VPATCH_WRKSRC
p1425
tp1426
a(g138
V}
tp1427
a(g6
V/Makefile.pre.in
p1428
tp1429
a(g6
V\u000a\u000a
p1430
tp1431
a(g138
V\${
p1432
tp1433
a(g100
VREINPLACE_CMD
p1434
tp1435
a(g138
V}
tp1436

a(g6
V
tp1437
a(g6
V-e
p1438
tp1439
a(g6
V
tp1440
a(g262
V\u005c\u000a
p1441
tp1442
a(g6
V
p1443
tp1444
a(g281
V's|*\u005c(..INSTALL_SCRIPT.*\u005c)python-config\$\$|#port \u005c1|'
p1445
tp1446
a(g6
V
tp1447
a(g262
V\u005c\u000a
p1448
tp1449
a(g6
V
p1450
tp1451
a(g138
V\${
p1452
tp1453
a(g100
VPATCH_WRKSRC
p1454
tp1455
a(g138
V}
tp1456
a(g6
V/Makefile.pre.in
p1457
tp1458

a(g6
V\u000a\u000a
p1459
tp1460
a(g138
V\${
p1461
tp1462
a(g100
VSED
p1463
tp1464
a(g138
V}
tp1465
a(g6
V
tp1466
a(g6
V-e
p1467
tp1468
a(g6
V
tp1469
a(g281
V's|^#!.*#!\${PREFIX}/bin/\${PYTHON_VERSION} |'
p1470
tp1471
a(g6
V
tp1472
a(g262
V\u0005c\u000a
p1473
tp1474
a(g6
V
p1475
tp1476
a(g138
V\${
p1477
tp1478
a(g100
VPATCH_WRKSRC
p1479
tp1480

a(g138
V}
tp1481
a(g6
V/Misc/python-config.in
p1482
tp1483
a(g6
V
tp1484
a(g6
V>
tp1485
a(g6
V
tp1486
a(g138
V\${
p1487
tp1488
a(g100
VWRKDIR
p1489
tp1490
a(g138
V}
tp1491
a(g6
V/
tp1492
a(g138
V\${
p1493
tp1494
a(g100
VPYTHON_VERSION
p1495
tp1496
a(g138
V}
tp1497
a(g6
V-config
p1498
tp1499
a(g6
V\u000a
p1500

tp1501
a(g138
V\${
p1502
tp1503
a(g100
VSED
p1504
tp1505
a(g138
V}
tp1506
a(g6
V
tp1507
a(g6
V-e
p1508
tp1509
a(g6
V
tp1510
a(g281
V's|^#!.*|#!\${PREFIX}/bin/\${PYTHON_VERSION:S/thon/thon-shared/}'
p1511
tp1512
a(g6
V
tp1513
a(g262
V\u005c\u000a
p1514
tp1515
a(g6
V
p1516
tp1517
a(g138
V\${
p1518
tp1519
a(g100
VPATCH_WRKSRC
p1520
tp1521
a(g138
V}
tp1522

a(g6
V/Misc/python-config.in
p1523
tp1524
a(g6
V
tp1525
a(g6
V>
tp1526
a(g6
V
tp1527
a(g138
V\${
p1528
tp1529
a(g100
VWRKDIR
p1530
tp1531
a(g138
V}
tp1532
a(g6
V/
tp1533
a(g138
V\${
p1534
tp1535
a(g100
VPYTHON_VERSION
p1536
tp1537
a(g212
V:
tp1538
a(g100
VS
tp1539
a(g212
V/thon/thon-shared/
p1540
tp1541
a(g138
V}
tp1542

a(g6
V-config
p1543
tp1544
a(g6
V\u000a\u000a
p1545
tp1546
a(g27
V.if defined(WITH_FPECTL) && \${ARCH} == i386\u000a
p1547
tp1548
a(g6
V
tp1549
a(g138
V\${
p1550
tp1551
a(g100
VMKDIR
p1552
tp1553
a(g138
V}
tp1554
a(g6
V
tp1555
a(g138
V\${
p1556
tp1557
a(g100
VWRKSRC
p1558
tp1559
a(g138
V}
tp1560
a(g6
V/Modules
p1561
tp1562
a(g6
V\u000a
p1563
tp1564

a(g138
V\${
p1565
tp1566
a(g100
VECHO
p1567
tp1568
a(g138
V}
tp1569
a(g6
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
a(g6
V/Modules/Setup.dist
p1582
tp1583
a(g6
V\u000a
tp1584
a(g27
V.endif\u000a

p1585
tp1586
a(g6
V\u000a
tp1587
a(g6
Vpost-configure:
p1588
tp1589
a(g6
V\u000a
p1590
tp1591
a(g138
V\${
p1592
tp1593
a(g100
VTAR
p1594
tp1595
a(g138
V}
tp1596
a(g6
V
tp1597
a(g6
V-C
p1598
tp1599
a(g6
V
tp1600
a(g138
V\${
p1601
tp1602
a(g100
VWRKSRC
p1603
tp1604
a(g138
V}
tp1605
a(g6
V
tp1606

a(g6
V-cf
p1607
tp1608
a(g6
V
tp1609
a(g6
V-
tp1610
a(g6
V
tp1611
a(g6
V.
tp1612
a(g6
V
tp1613
a(g6
V|
tp1614
a(g6
V
tp1615
a(g138
V\${
p1616
tp1617
a(g100
VTAR
p1618
tp1619
a(g138
V}
tp1620
a(g6
V
tp1621
a(g6
V-C
p1622
tp1623
a(g6
V
tp1624
a(g138
V\${

p1625
tp1626
a(g100
VSHARED_WRKSRC
p1627
tp1628
a(g138
V}
tp1629
a(g6
V
tp1630
a(g6
V-xf
p1631
tp1632
a(g6
V
tp1633
a(g6
V-
tp1634
a(g6
V\u000a
p1635
tp1636
a(g138
V\${
p1637
tp1638
a(g100
VLN
p1639
tp1640
a(g138
V}
tp1641
a(g6
V
tp1642
a(g6
V-sf
p1643
tp1644
a(g6
V
tp1645
a(g138

V\${
p1646
tp1647
a(g100
VPYTHON_WRKSRC
p1648
tp1649
a(g138
V}
tp1650
a(g6
V/Lib
p1651
tp1652
a(g6
V
tp1653
a(g138
V\${
p1654
tp1655
a(g100
VWRKSRC
p1656
tp1657
a(g138
V}
tp1658
a(g6
V/Lib
p1659
tp1660
a(g6
V\u000a
p1661
tp1662
a(g138
V\${
p1663
tp1664
a(g100
VSED
p1665
tp1666
a(g138
V}
tp1667
a(g6

V
tp1668
a(g6
V-e
p1669
tp1670
a(g6
V
tp1671
a(g281
V's,^\u005c(LDLIBRARY=\u005c).*\$\$,\u005c1libpython\$(VERSION).so,'
p1672
tp1673
a(g6
V
tp1674
a(g262
V\u005c\u000a
p1675
tp1676
a(g6
V
p1677
tp1678
a(g6
V-e
p1679
tp1680
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_WKSRRC
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
VINSTALL_PROGRAM
p2244
tp2245
a(g138
V}
tp2246
a(g6
V
tp2247
a(g262
V\u005c\u000a
p2248
tp2249
a(g6
V
p2250
tp2251
a(g138
V\${
p2252
tp2253
a(g100
VSHARED_WRKSRC
p2254
tp2255
a(g138
V}
tp2256
a(g6
V/
tp2257
a(g138
V\${
p2258
tp2259
a(g100

VPYTHON_VERSION
p2260
tp2261
a(g212
V:
tp2262
a(g100
VS
tp2263
a(g212
V/thon/thon-shared/
p2264
tp2265
a(g138
V}
tp2266
a(g6
V
tp2267
a(g262
V\u005c\u000a
p2268
tp2269
a(g6
V
p2270
tp2271
a(g138
V\${
p2272
tp2273
a(g100
VPREFIX
p2274
tp2275
a(g138
V}
tp2276
a(g6
V/bin
p2277
tp2278
a(g6
V\u000a\u000a
p2279
tp2280
a(g24
V @# additional files installing by ports\u000a

p2281
tp2282
a(g6
V
tp2283
a(g138
V\${
p2284
tp2285
a(g100
VINSTALL_SCRIPT
p2286
tp2287
a(g138
V}
tp2288
a(g6
V
tp2289
a(g138
V\${
p2290
tp2291
a(g100
VWRKDIR
p2292
tp2293
a(g138
V}
tp2294
a(g6
V/pydoc2.5
p2295
tp2296
a(g6
V
tp2297
a(g138
V\${
p2298
tp2299
a(g100
VWRKDIR
p2300
tp2301
a(g138
V}
tp2302

a(g6
V/idle2.5
p2303
tp2304
a(g6
V
tp2305
a(g262
V\u005c\u000a
p2306
tp2307
a(g6
V
p2308
tp2309
a(g138
V\${
p2310
tp2311
a(g100
VWRKDIR
p2312
tp2313
a(g138
V}
tp2314
a(g6
V/smtpd2.5.py
p2315
tp2316
a(g6
V
tp2317
a(g138
V\${
p2318
tp2319
a(g100
VPREFIX
p2320
tp2321
a(g138
V}
tp2322
a(g6
V/bin
p2323
tp2324

a(g6
V\u000a
p2325
tp2326
a(g6
V@
tp2327
a(g138
V\${
p2328
tp2329
a(g100
VMKDIR
p2330
tp2331
a(g138
V}
tp2332
a(g6
V
tp2333
a(g138
V\${
p2334
tp2335
a(g100
VMANPREFIX
p2336
tp2337
a(g138
V}
tp2338
a(g6
V/man/man1
p2339
tp2340
a(g6
V\u000a
p2341
tp2342
a(g138
V\${
p2343
tp2344
a(g100
VINSTALL_MAN
p2345
tp2346

a(g138
V}
tp2347
a(g6
V
tp2348
a(g138
V\${
p2349
tp2350
a(g100
VPYTHON_WRKSRC
p2351
tp2352
a(g138
V}
tp2353
a(g6
V/Misc/python.man
p2354
tp2355
a(g6
V
tp2356
a(g262
V\u005c\u000a
p2357
tp2358
a(g6
V
p2359
tp2360
a(g138
V\${
p2361
tp2362
a(g100
VMANPREFIX
p2363
tp2364
a(g138
V}
tp2365
a(g6
V/man/man1/
p2366
tp2367
a(g138

V\${
p2368
tp2369
a(g100
VPYTHON_VERSION
p2370
tp2371
a(g138
V}
tp2372
a(g6
V.1
p2373
tp2374
a(g6
V\u000a\u000a
p2375
tp2376
a(g27
V.if \${PYTHON_VERSION} == \${PYTHON_DEFAULT_VERSION}\u000a
p2377
tp2378
a(g6
V
tp2379
a(g138
Vfor
p2380
tp2381
a(g6
Vf
tp2382
a(g6
V
tp2383
a(g6
Vin
p2384
tp2385
a(g6
V
tp2386
a(g138
V\${
p2387
tp2388
a(g100
VBIN_SCRIPTS

p2389
tp2390
a(g138
V}
tp2391
a(g6
V;
tp2392
a(g6
V
tp2393
a(g138
Vdo
p2394
tp2395
a(g6
V
tp2396
a(g262
V\u005c\u000a
p2397
tp2398
a(g6
V
p2399
tp2400
a(g100
VTARGET
p2401
tp2402
a(g353
V=
tp2403
a(g274
V`
tp2404
a(g138
V\${
p2405
tp2406
a(g100
VECHO_CMD
p2407
tp2408
a(g138
V}
tp2409
a(g6

V
tp2410
a(g100
V\$\$
p2411
tp2412
a(g6
Vf
tp2413
a(g6
V
tp2414
a(g6
V|
tp2415
a(g6
V
tp2416
a(g138
V\${
p2417
tp2418
a(g100
VSED
p2419
tp2420
a(g138
V}
tp2421
a(g6
V
tp2422
a(g6
V-E
p2423
tp2424
a(g6
V
tp2425
a(g138
V\${
p2426
tp2427
a(g100
VBINLINKS_SUB
p2428
tp2429
a(g138

V}
tp2430
a(g274
V`
tp2431
a(g6
V;
tp2432
a(g6
V
tp2433
a(g262
V\u005c\u000a
p2434
tp2435
a(g6
V
p2436
tp2437
a(g84
Vcd
p2438
tp2439
a(g6
V
tp2440
a(g138
V\${
p2441
tp2442
a(g100
VPREFIX
p2443
tp2444
a(g138
V}
tp2445
a(g6
V/bin
p2446
tp2447
a(g6
V
tp2448
a(g353
V&&
p2449
tp2450

a(g6
V
tp2451
a(g138
V\${
p2452
tp2453
a(g100
VLN
p2454
tp2455
a(g138
V}
tp2456
a(g6
V
tp2457
a(g6
V-f
p2458
tp2459
a(g6
V
tp2460
a(g100
V\$\$
p2461
tp2462
a(g6
VTARGET
p2463
tp2464
a(g6
V
tp2465
a(g100
V\$\$
p2466
tp2467
a(g6
Vf;
p2468
tp2469
a(g6
V
tp2470
a(g262
V\u005c\u000a

p2471
tp2472
a(g6
V
tp2473
a(g138
Vdone
p2474
tp2475
a(g6
V\u000a
tp2476
a(g27
V.endif\u000a
p2477
tp2478
a(g6
V\u000a
tp2479
a(g27
V.if !defined(NOPORTDOCS)\u000a
p2480
tp2481
a(g6
V
tp2482
a(g6
V@
tp2483
a(g138
V\${
p2484
tp2485
a(g100
VMKDIR
p2486
tp2487
a(g138
V}
tp2488
a(g6
V
tp2489
a(g138
V\${
p2490
tp2491
a(g100

VTOOLS DIR
p2492
tp2493
a(g138
V}
tp2494
a(g6
V\u000a
p2495
tp2496
a(g6
V@cd
p2497
tp2498
a(g6
V
tp2499
a(g138
V\${
p2500
tp2501
a(g100
VPYTHON_WRKSRC
p2502
tp2503
a(g138
V}
tp2504
a(g6
V;
tp2505
a(g6
V
tp2506
a(g138
V\${
p2507
tp2508
a(g100
VTAR
p2509
tp2510
a(g138
V}
tp2511
a(g6
V
tp2512

a(g6
V-cf
p2513
tp2514
a(g6
V
tp2515
a(g6
V-
tp2516
a(g6
V
tp2517
a(g6
VTools
p2518
tp2519
a(g6
V
tp2520
a(g6
V|
tp2521
a(g6
V
tp2522
a(g262
V\u005c\u000a
p2523
tp2524
a(g6
V
p2525
tp2526
a(g353
V(
tp2527
a(g84
Vcd
p2528
tp2529
a(g6
V
tp2530
a(g138
V\${
p2531
tp2532

a(g100
VTOOLS DIR
p2533
tp2534
a(g138
V}
tp2535
a(g6
V;
tp2536
a(g6
V
tp2537
a(g138
V\${
p2538
tp2539
a(g100
VTAR
p2540
tp2541
a(g138
V}
tp2542
a(g6
V
tp2543
a(g6
V-xf
p2544
tp2545
a(g6
V
tp2546
a(g6
V-
tp2547
a(g353
V)
tp2548
a(g6
V\u000a
p2549
tp2550
a(g6
V@
tp2551
a(g138

V\${
p2552
tp2553
a(g100
VMKDIR
p2554
tp2555
a(g138
V}
tp2556
a(g6
V
tp2557
a(g138
V\${
p2558
tp2559
a(g100
VDEMODIR
p2560
tp2561
a(g138
V}
tp2562
a(g6
V\u000a
p2563
tp2564
a(g6
V@cd
p2565
tp2566
a(g6
V
tp2567
a(g138
V\${
p2568
tp2569
a(g100
VPYTHON_WRKSRC
p2570
tp2571
a(g138
V}
tp2572
a(g6
V/Demo;

p2573
tp2574
a(g6
V
tp2575
a(g138
V\${
p2576
tp2577
a(g100
VTAR
p2578
tp2579
a(g138
V}
tp2580
a(g6
V
tp2581
a(g6
V-cf
p2582
tp2583
a(g6
V
tp2584
a(g6
V-
tp2585
a(g6
V
tp2586
a(g6
V*
tp2587
a(g6
V
tp2588
a(g6
V|
tp2589
a(g6
V
tp2590
a(g262
V\u005c\u000a
p2591
tp2592

a(g6
V
p2593
tp2594
a(g353
V(
tp2595
a(g84
Vcd
p2596
tp2597
a(g6
V
tp2598
a(g138
V\${
p2599
tp2600
a(g100
VDEMODIR
p2601
tp2602
a(g138
V}
tp2603
a(g6
V;
tp2604
a(g6
V
tp2605
a(g138
V\${
p2606
tp2607
a(g100
VTAR
p2608
tp2609
a(g138
V}
tp2610
a(g6
V
tp2611
a(g6
V-xf
p2612

tp2613
a(g6
V
tp2614
a(g6
V-
tp2615
a(g353
V)
tp2616
a(g6
V\u000a
tp2617
a(g27
V.endif\u000a
p2618
tp2619
a(g6
V\u000a
p2620
tp2621
a(g6
V@
tp2622
a(g138
V\${
p2623
tp2624
a(g100
VCAT
p2625
tp2626
a(g138
V}
tp2627
a(g6
V
tp2628
a(g138
V\${
p2629
tp2630
a(g100
VPKGMESSAGE
p2631
tp2632
a(g138
V}

tp2633
a(g6
V\u000a\u000a
p2634
tp2635
a(g27
V.include <bsd.port.post.mk>\u000a
p2636
tp2637
a(g6
V
tp2638
a.

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1.636 python-requests_LGPLv2.1 1.1.0 :8.e17

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schema/trex.py

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test/domapi/ (and test/test_pyxmlDOM.py)

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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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Installation

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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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Version 1.1

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1.650 range-parser 0.0.4

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1.651 range-parser 1.0.2

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1.652 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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## 1.653 raw-body 1.3.3

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## 1.654 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 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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## 1.655 raw-body 2.0.2

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## 1.656 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)
```

```
[![Coverage Status](https://img.shields.io/coveralls/stream-utils/raw-body.svg?branch=master)](https://coveralls.io/r/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')
```

```
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 unpiped,

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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```

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# 1.661 readable-stream 1.1.13

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## 1.662 readable-stream 1.0.33

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## 1.665 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 `hireis` C library, which is non-blocking and fast. To use `hireis`, do:

```
npm install hireis redis
```

If `hireis` is installed, `node\_redis` will use it by default. Otherwise, a pure JavaScript parser will be used.

If you use `hireis`, 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 ``Multi.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).

- [Matt Ranney aka `mranney`](https://github.com/mranney)
- [Tim-Smart aka `tim-smart`](https://github.com/tim-smart)
- [Tj Holwaychuk aka `visionmedia`](https://github.com/visionmedia)
- [rick aka `technoweenie`](https://github.com/technoweenie)
- [Orion Henry aka `orionz`](https://github.com/orionz)

- [Aivo Paas aka `aivopaas`](https://github.com/aivopaas)
- [Hank Sims aka `hanksims`](https://github.com/hanksims)
- [Paul Carey aka `paulcarey`](https://github.com/paulcarey)
- [Pieter Noordhuis aka `pietern`](https://github.com/pietern)
- [nithesh aka `nithesh`](https://github.com/nithesh)
- [Andy Ray aka `andy2ray`](https://github.com/andy2ray)
- [unknown aka `unknowdna`](https://github.com/unknowdna)
- [Dave Hoover aka `redsquirrel`](https://github.com/redsquirrel)
- [Vladimir Dronnikov aka `dvv`](https://github.com/dvv)
- [Umair Siddique aka `umairsiddique`](https://github.com/umairsiddique)
- [Louis-Philippe Perron aka `lp`](https://github.com/lp)
- [Mark Dawson aka `markdaws`](https://github.com/markdaws)
- [Ian Babrou aka `bobrik`](https://github.com/bobrik)
- [Felix Geisendoerfer aka `felixge`](https://github.com/felixge)
- [Jean-Hugues Pinson aka `undefined`](https://github.com/undefined)
- [Maksim Lin aka `maks`](https://github.com/maks)
- [Owen Smith aka `orls`](https://github.com/orls)
- [Zachary Scott aka `zzak`](https://github.com/zzak)
- [TEHEK Firefox aka `TEHEK`](https://github.com/TEHEK)
- [Isaac Z. Schlueter aka `isaacs`](https://github.com/isaacs)
- [David Trejo aka `DTrejo`](https://github.com/DTrejo)
- [Brian Noguchi aka `bnoguchi`](https://github.com/bnoguchi)
- [Philip Tellis aka `bluesmoon`](https://github.com/bluesmoon)
- [Marcus Westin aka `marcuswestin2`](https://github.com/marcuswestin2)
- [Jed Schmidt aka `jed`](https://github.com/jed)
- [Dave Peticolas aka `jdavisp3`](https://github.com/jdavisp3)
- [Trae Robrock aka `trobrock`](https://github.com/trobrock)
- [Shankar Karupiah aka `shankar0306`](https://github.com/shankar0306)
- [Ignacio Burgueño aka `ignacio`](https://github.com/ignacio)

Thanks.

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![spacer](http://ranney.com/1px.gif)

1.666 redis 0.9.0

1.666.1 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(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).

- [Matt Ranney aka `mranney`](<https://github.com/mranney>)
- [Tim-Smart aka `tim-smart`](<https://github.com/tim-smart>)
- [Tj Holowaychuk aka `visionmedia`](<https://github.com/visionmedia>)
- [rick aka `technoweenie`](<https://github.com/technoweenie>)
- [Orion Henry aka `orionz`](<https://github.com/orionz>)
- [Aivo Paas aka `aivopaas`](<https://github.com/aivopaas>)
- [Hank Sims aka `hanksims`](<https://github.com/hanksims>)
- [Paul Carey aka `paulcarey`](<https://github.com/paulcarey>)
- [Pieter Noordhuis aka `pietern`](<https://github.com/pietern>)
- [nithesh aka `nithesh`](<https://github.com/nithesh>)
- [Andy Ray aka `andy2ray`](<https://github.com/andy2ray>)
- [unknown aka `unknowdna`](<https://github.com/unknowdna>)
- [Dave Hoover aka `redsquirrel`](<https://github.com/redsquirrel>)
- [Vladimir Dronnikov aka `dvv`](<https://github.com/dvv>)
- [Umair Siddique aka `umairsiddique`](<https://github.com/umairsiddique>)
- [Louis-Philippe Perron aka `lp`](<https://github.com/lp>)
- [Mark Dawson aka `markdaws`](<https://github.com/markdaws>)
- [Ian Babrou aka `bobrik`](<https://github.com/bobrik>)
- [Felix Geisendoerfer aka `felixge`](<https://github.com/felixge>)
- [Jean-Hugues Pinson aka `undefined`](<https://github.com/undefined>)
- [Maksim Lin aka `maks`](<https://github.com/maks>)
- [Owen Smith aka `orls`](<https://github.com/orls>)
- [Zachary Scott aka `zzak`](<https://github.com/zzak>)
- [TEHEK Firefox aka `TEHEK`](<https://github.com/TEHEK>)
- [Isaac Z. Schlueter aka `isaacs`](<https://github.com/isaacs>)
- [David Trejo aka `DTrejo`](<https://github.com/DTrejo>)
- [Brian Noguchi aka `bnoguchi`](<https://github.com/bnoguchi>)
- [Philip Tellis aka `bluesmoon`](<https://github.com/bluesmoon>)
- [Marcus Westin aka `marcuswestin2`](<https://github.com/marcuswestin2>)
- [Jed Schmidt aka `jed`](<https://github.com/jed>)
- [Dave Peticolas aka `jdavisp3`](<https://github.com/jdavisp3>)
- [Trae Robrock aka `trobrock`](<https://github.com/trobrock>)
- [Shankar Karupiah aka `shankar0306`](<https://github.com/shankar0306>)
- [Ignacio Burgueño aka `ignacio`](<https://github.com/ignacio>)

Thanks.

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1.667 redis 2.8.14 :2.el7

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1.669 redis 0.12.1

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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()
```

```
### 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_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.

```
## 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).

- [Matt Ranney aka `mranney`](https://github.com/mranney)
- [Tim Smart aka `tim-smart`](https://github.com/tim-smart)
- [Tj Holowaychuk aka `visionmedia`](https://github.com/visionmedia)
- [rick aka `technoweenie`](https://github.com/technoweenie)
- [Orion Henry aka `orionz`](https://github.com/orionz)
- [Aivo Paas aka `aivopaas`](https://github.com/aivopaas)
- [Hank Sims aka `hanksims`](https://github.com/hanksims)
- [Paul Carey aka `paulcarey`](https://github.com/paulcarey)
- [Pieter Noordhuis aka `pietern`](https://github.com/pietern)
- [nithesh aka `nithesh`](https://github.com/nithesh)
- [Andy Ray aka `andy2ray`](https://github.com/andy2ray)
- [unknown aka `unknowdna`](https://github.com/unknowdna)
- [Dave Hoover aka `redsquirrel`](https://github.com/redsquirrel)
- [Vladimir Dronnikov aka `dvv`](https://github.com/dvv)
- [Umair Siddique aka `umairsiddique`](https://github.com/umairsiddique)
- [Louis-Philippe Perron aka `lp`](https://github.com/lp)
- [Mark Dawson aka `markdaws`](https://github.com/markdaws)
- [Ian Babrou aka `bobrik`](https://github.com/bobrik)
- [Felix Geisendoerfer aka `felixge`](https://github.com/felixge)
- [Jean-Hugues Pinson aka `undefined`](https://github.com/undefined)
- [Maksim Lin aka `maks`](https://github.com/maks)
- [Owen Smith aka `orls`](https://github.com/orls)
- [Zachary Scott aka `zzak`](https://github.com/zzak)
- [TEHEK Firefox aka `TEHEK`](https://github.com/TEHEK)
- [Isaac Z. Schlueter aka `isaacs`](https://github.com/isaacs)
- [David Trejo aka `DTrejo`](https://github.com/DTrejo)
- [Brian Noguchi aka `bnoguchi`](https://github.com/bnoguchi)
- [Philip Tellis aka `bluesmoon`](https://github.com/bluesmoon)
- [Marcus Westin aka `marcuswestin2`](https://github.com/marcuswestin2)
- [Jed Schmidt aka `jed`](https://github.com/jed)
- [Dave Peticolas aka `jdavisp3`](https://github.com/jdavisp3)

- [Trae Robrock aka `trobrock`](https://github.com/trobrock)
- [Shankar Karupiah aka `shankar0306`](https://github.com/shankar0306)
- [Ignacio Burgueño aka `ignacio`](https://github.com/ignacio)

Thanks.

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![spacer](<http://ranney.com/1px.gif>)

# 1.670 reduce-component 1.0.1

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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](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](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](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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## 1.673 replace 0.2.9

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```
"author": "Heather Arthur <fayearthur@gmail.com>",
"url": "http://github.com/harthur/replace.git"
```

## 1.674 request 2.40.0

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## 1.685 resolve 0.7.4

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## 1.686 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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1.691 retry 0.6.1

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1.692 revalidator 0.1.8

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1.695 rndm 1.1.0

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    "index.js"
  ]
}
```

1.696 root-require 0.3.1

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1.697 routes 0.2.0

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1.698 ruby-augeas 0.5.0 :1.el7

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Version 2.1, February 1999

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1.699 ruby-shadow 1.4.1 :23.el7

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1.700 samsam 1.1.2

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1.701 sax 0.5.8

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```
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<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en"><head><meta http-equiv="Content-Type"
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">
    @import url("/2008/site/css/advanced");
</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"
href="/2008/site/images/favicon.ico" type="image/x-icon" /></head><body id="www-w3-org"
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
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    <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
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    <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
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    <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_crums">
<div id="w3c_crums_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>
</div>
    <h1 class="title">W3C Software Notice and License</h1>
    <div id="w3c_content_body">
        <div class="line">
            <p class="intro tPadding">This work (and included software, documentation such as READMEs, or
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```

        
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reasons --><div id="w3c_scripts">
    <script type="text/javascript" src="/2008/site/js/main" xml:space="preserve"><!-- --></script>
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```

1.702 sax 0.3.5

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1.703 sax 0.6.1

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1.704 scmp 1.0.0

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1.705 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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1.706 semver 1.1.4

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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

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

### ### 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 ;).

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To enable `debug()` instrumentation output export `__DEBUG__`:

---

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$ DEBUG=send node app
```

---

## Running tests

---

```
$ npm install
```

```
$ make test
```

---

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## 1.714 send 0.1.0

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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);
});
```
```

Serving from a root directory with custom error-handling:



```

```js
var http = require('http');
var send = require('send');

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);
});
```

API

Events

- `error` an error occurred `(err)`
- `directory` a directory was requested
- `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.

## ## 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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## 1.727 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;
' yay '.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.startsWith('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.containEql([3]);
[[1],[2],[3, 4]].should.not.containEql([3]);

({ b: 10 }).should.containEql({ b: 10 });
```
```

```

([1, 2, { a: 10 }]).should.containEql({ a: 10 });
[1, 2, 3].should.not.containEql({ a: 1 });

[{'a': 'a'}, {'b': 'b', c: 'c'}].should.containEql({'a': 'a'});
[{'a': 'a'}, {'b': 'b', c: 'c'}].should.not.containEql({'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 `containEql` 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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## 1.730 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"},

## 1.731 sinon 1.14.1

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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"
```

# 1.733 sliced 0.0.5

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\* socket.io

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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 a 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

Guillermo Rauch <guillermo@learnboost.com>

Arnout Kazemier <info@3rd-eden.com>

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1.742 source-map 0.1.34

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1.744 sprintf-js 1.0.2

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1.745 sqlite3 3.0.4

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1.746 sqlite3_ASLv2.0 3.0.4

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1.748 ssh2 0.3.6

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1.749 ssh2 0.2.25

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1.750 stack-trace 0.0.9

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1.751 static-favicon 1.0.0

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1.753 statuses 1.2.1

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1.754 stream-counter 0.2.0

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1.755 streamsearch 0.1.2

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1.756 string_decoder 0.10.31

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1.757 stringstream 0.0.4

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1.758 strip-ansi 2.0.1

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

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

```
## Install
```

```
```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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```

# 1.759 superagent 0.17.0

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```
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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1.760 supertest 0.9.2

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1.761 supports-color 1.3.1

1.761.1 Available under license :

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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```

```
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```

## 1.762 swagger-node-express 2.0.1

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{
 "name": "swagger-node-express",
 "version": "2.0.1",
 "author": {
 "name": "Tony Tam",
 "email": "fehgyu@gmail.com",
 "url": "http://developer.wordnik.com"
 },
 "contributors": [
 {
 "name": "Pauh Hill",
 "email": "phill@kixeye.com"
 }
]
}

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```

 }
],
 "description": "Wordnik swagger implementation for the express framework",
 "repository": {
 "type": "git",
 "url": "https://github.com/wordnik/swagger-node-express"
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 "keywords": [
 "http",
 "rest",
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 "server"
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 "express": "3.x",
 "docco": "0.4.x",
 "lodash": "1.3.1"
 },
 "license": "apache 2.0"
}

```

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```
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```

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```
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```

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

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====

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FAQ:  
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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.

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## 1.765 syslog-ng\_MPLv1.1 3.5.6

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# 1.766 thenify 3.1.0

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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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[gitter-url]: https://gitter.im/thenables/thenify
[npm-image]: https://img.shields.io/npm/v/thenify.svg?style=flat-square
[npm-url]: https://npmjs.org/package/thenify
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```

## 1.767 thenify-all 1.6.0

### 1.767.1 Available under license :

```
thenify-all
```

```
[![NPM version][npm-image]][npm-url]
```

```
[![Build status][travis-image]][travis-url]
```

[![Test coverage][coveralls-image]][coveralls-url]  
[![Dependency Status][david-image]][david-url]  
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[![Downloads][downloads-image]][downloads-url]  
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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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[travis-image]: <https://img.shields.io/travis/thenables/thenify-all.svg?style=flat-square>  
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## 1.769 tinycolor 0.0.1

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## 1.770 tough-cookie 1.2.0

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## 1.772 tough-cookie 0.12.1

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```
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```

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```
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```

```
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Ty Coon, President of Vice
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## 1.774 transformers 2.1.0

### 1.774.1 Available under license :

```
{
 "name": "transformers",
 "version": "2.1.0",
 "description": "String/Data transformations for use in templating libraries, static site generators and web frameworks",
 "main": "lib/transformers.js",
 "scripts": {
 "pretest": "node test/update-package && npm install",
 "test": "mocha test/test.js -R spec"
 },
 "repository": {
 "type": "git",
 "url": "https://github.com/ForbesLindesay/transformers.git"
 },
 "author": "ForbesLindesay",
 "license": "MIT",
 "readmeFilename": "README.md",
 "gitHead": "4b46e72cba3ad3403fd5ed3802d5472dcfa77311",
```

```

"devDependencies": {
 "mocha": "~1.8",
 "expect.js": "~0.2",
 "swig": "*",
 "atpl": "*",
 "liquor": "*",
 "ejs": "*",
 "eco": "*",
 "jqtpl": "*",
 "hamljs": "*",
 "haml-coffee": "*",
 "whiskers": "*",
 "hogan.js": "*",
 "handlebars": "*",
 "underscore": "*",
 "walrus": "*",
 "mustache": "*",
 "mote": "*",
 "toffee": "*",
 "just": "*",
 "ect": "*",
 "jade": "*",
 "then-jade": "*",
 "dust": "*",
 "dustjs-linkedin": "*",
 "jazz": "*",
 "qejs": "*",
 "less": "*",
 "stylus": "*",
 "sass": "*",
 "marked": "*",
 "supermarked": "*",
 "markdown-js": "*",
 "markdown": "*",
 "coffee-script": "*",
 "cson": "*",
 "coffeekup": "*",
 "coffeecup": "*",
 "templated": "*",
 "plates": "*",
 "dot": "*",
 "component-builder": "*",
 "html2jade": "*",
 "highlight.js": "*"
},
"dependencies": {
 "promise": "~2.0",
 "css": "~1.0.8",

```

```
"uglify-js": "~2.2.5"
}
}
```

## 1.775 traverse 0.3.9

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## 1.776 tunnel-agent 0.3.0

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# 1.778 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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## 1.779 type-is 1.6.1

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## 1.780 type-is 1.1.0

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# Type Is [\[!Build Status\]\(https://travis-ci.org/expressjs/type-is.png\)](https://travis-ci.org/expressjs/type-is.png)[\]\(https://travis-ci.org/expressjs/type-is\)](https://travis-ci.org/expressjs/type-is)

Infer the content type of a request.

Extracted from [\[koa\]\(https://github.com/koajs/koa\)](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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## 1.784 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"
}
}

```

## 1.785 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"
}
}
```

## 1.786 uglify-js 1.2.5

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\*

\* Credits: Ideas included from incomplete JS implementation of Olson  
\* parser, "XMLDate" by Philippe Goetz (philippe.goetz@wanadoo.fr)

\*

\* Contributions:

\* Jan Niehusmann

\* Ricky Romero

\* Preston Hunt (prestonhunt@gmail.com),

\* Dov. B Katz (dov.katz@morganstanley.com),

\* Peter Bergström (pbergstr@mac.com)

\*/

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## 1.791 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`) and 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"]` to `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)` to `a > b` (only when `unsafe`), attempts to negate binary nodes, e.g. `a == !b` to `!a || !b` etc.
- `evaluate` -- attempt to evaluate constant expressions
- `booleans` -- various optimizations for boolean context, for example `!!a ? b : c` to `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 ``</script`` in strings
- ``width`` (default 80) -- only takes effect when beautification is on, this specifies an (orientative) line width that the beautifier will try to obey. It refers to the width of the line text (excluding indentation). It doesn't work very well currently, but it does make the code generated by UglifyJS more readable.
- ``max-line-len`` (default 32000) -- maximum line length (for uglified code)
- ``ie-proof`` (default ``true``) -- generate "IE-proof" code (for now this means add brackets around the do/while in code like this: ``if (foo) do something(); while (bar); else ...``).
- ``bracketize`` (default ``false``) -- always insert brackets in ``if``, ``for``, ``do``, ``while`` or ``with`` statements, even if their body is a single statement.
- ``semicolons`` (default ``true``) -- separate statements with semicolons. If you pass ``false`` then whenever possible we will use a newline instead of a semicolon, leading to more readable output of uglified code (size before gzip could be smaller; size after gzip insignificantly larger).

### 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 [Compressor options](#). 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>

## 1.792 uglify-js\_app.js 1.2.5

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\*

\* Credits: Ideas included from incomplete JS implementation of Olson

\* parser, "XMLDate" by Philippe Goetz (philippe.goetz@wanadoo.fr)

\*

\* Contributions:

\* Jan Niehusmann

- \* Ricky Romero
- \* Preston Hunt (prestonhunt@gmail.com),
- \* Dov. B Katz (dov.katz@morganstanley.com),
- \* Peter Bergström (pbergstr@mac.com)
- \*/

## 1.793 uglify-to-browserify 1.0.2

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 "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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# 1.805 underscore.string 2.3.3

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 "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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# 1.816 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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# 1.818 when 3.2.3

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## 1.819 which 1.0.9

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## 1.820 window-size 0.1.0

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## 1.821 winston 0.8.3

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## 1.822 winston 0.6.2

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## 1.826 wordwrap 0.0.2

### 1.826.1 Available under license :

```
{
 "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"
 }
}

```

## 1.827 wordwrap 0.0.3

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# 1.828 wrappy 1.0.1

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# 1.829 ws 0.4.32

## 1.829.1 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.

```
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```

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# 1.830 wxGTK 2.8.12 :8.eI7

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

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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under certain conditions; type `show c' for details.
```

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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

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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](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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## 1.838 xmlhttprequest 1.4.2

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## 1.839 xtend 4.0.0

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```
{
 "name": "xtend",
 "version": "4.0.0",
 "description": "extend like a boss",
 "keywords": [
 "extend",
 "merge",
 "options",
 "opts",
```

```

 "object",
 "array"
],
 "author": "Raynos <raynos2@gmail.com>",
 "repository": "git://github.com/Raynos/xtend.git",
 "main": "immutable",
 "scripts": {
 "test": "node test"
 },
 "dependencies": {},
 "devDependencies": {
 "tape": "~1.1.0"
 },
 "homepage": "https://github.com/Raynos/xtend",
 "contributors": [
 {
 "name": "Jake Verbaten"
 },
 {
 "name": "Matt Esch"
 }
],
 "bugs": {
 "url": "https://github.com/Raynos/xtend/issues",
 "email": "raynos2@gmail.com"
 },
 "licenses": [
 {
 "type": "MIT",
 "url": "http://github.com/raynos/xtend/raw/master/LICENSE"
 }
],
 "testling": {
 "files": "test.js",
 "browsers": [
 "ie/7..latest",
 "firefox/16..latest",
 "firefox/nightly",
 "chrome/22..latest",
 "chrome/canary",
 "opera/12..latest",
 "opera/next",
 "safari/5.1..latest",
 "ipad/6.0..latest",
 "iphone/6.0..latest"
]
 },
 "engines": {

```



```
"node": ">=0.4"
}
}
```

# 1.840 yaml 0.2.3

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# 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
```

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## 1.841 yargs 3.5.4

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\* jsgb.toolbox.js - This is part of JSGB, a JavaScript GameBoy Emulator

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\* scrollbar.js v0.1 - A simple scrollbar for JavaScript

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```

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