Open Source Used In Virtual Media Packager 2.7

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The product also uses the Linux operating system, CentOS-MOS 7. Information on this distribution is available at http://software.cisco.com/download/special/release.html?config=bb39f060c13c6fc8cd41bfb33e3ed6a8. The full source code for this distribution, including copyright and license information, is available on request from opensource-requests@external.cisco.com. Mention that you would like the Linux distribution source archive, and quote the following reference number for this distribution: 98696601-132905770.

Contents

1.1 abbrev 1.0.5
    1.1.1 Available under license
1.2 accepts 1.0.7
    1.2.1 Available under license
1.3 accepts 1.2.7
    1.3.1 Available under license
1.4 accepts 1.1.4
    1.4.1 Available under license
1.5 accepts 1.0.1
    1.5.1 Available under license
1.6 accepts 1.2.4
    1.6.1 Available under license
1.7 accepts 1.2.5
    1.7.1 Available under license
1.8 acl/LGPLv2.1 2.2.51 :12.el7
    1.8.1 Available under license
1.9 acorn 1.0.3
1.9.1 Available under license

1.10 acorn 0.11.0
1.10.1 Available under license

1.11 acorn-globals 1.0.4
1.11.1 Available under license

1.12 active-x-obfuscator 0.0.1
1.12.1 Available under license

1.13 ain2 1.2.1
1.13.1 Available under license

1.14 amdefine 0.1.0
1.14.1 Available under license

1.15 amqplib 0.2.1
1.15.1 Available under license

1.16 ansi-regex 1.1.1
1.16.1 Available under license

1.17 ansi-styles 2.0.1
1.17.1 Available under license

1.18 argparse 0.1.16
1.18.1 Available under license

1.19 argparse 1.0.2
1.19.1 Available under license

1.20 asn1 0.2.1
1.20.1 Available under license

1.21 asn1 0.1.11
1.21.1 Available under license

1.22 asn1 0.2.2
1.22.1 Available under license

1.23 assert 1.1.2
1.23.1 Available under license

1.24 assert-plus 0.1.5
1.24.1 Available under license

1.25 async 0.9.2
1.25.1 Available under license

1.26 async 0.1.22
1.26.1 Available under license

1.27 async 0.1.15
1.27.1 Available under license

1.28 async 0.6.2
1.28.1 Available under license
1.29 async 0.2.10
1.29.1 Available under license

1.30 async 0.2.9
1.30.1 Available under license

1.31 async 0.9.0
1.31.1 Available under license

1.32 atk/tk.po 2.8.0 :4.el7
1.32.1 Available under license

1.33 atomic-write 0.1.1
1.33.1 Available under license

1.34 attr/libattr 2.4.46 :12.el7
1.34.1 Available under license

1.35 aws-sign2 0.5.0
1.35.1 Available under license

1.36 backbone 0.9.10
1.36.1 Available under license

1.37 balanced-match 0.2.0
1.37.1 Available under license

1.38 base64-js 0.0.8
1.38.1 Available under license

1.39 base64-url 1.2.1
1.39.1 Available under license

1.40 base64id 0.1.0
1.40.1 Available under license

1.41 basic-auth 1.0.1
1.41.1 Available under license

1.42 basic-auth 1.0.0
1.42.1 Available under license

1.43 basic-auth-connect 1.0.0
1.43.1 Available under license

1.44 batch 0.5.0
1.44.1 Available under license

1.45 batch 0.5.2
1.45.1 Available under license

1.46 binary 0.3.0
1.46.1 Available under license

1.47 bind/openssl_patches 9.9.4 :14.el7
1.47.1 Available under license

1.48 bindings 1.2.1
1.48.1 Available under license

1.49 bindings 1.1.1
1.49.1 Available under license

1.50 bit-array 0.2.2
1.50.1 Available under license

1.51 bitsyntax 0.0.4
1.51.1 Available under license

1.52 bl 0.9.4
1.52.1 Available under license

1.53 bluebird 2.9.26
1.53.1 Available under license

1.54 body-parser 1.5.2
1.54.1 Available under license

1.55 body-parser 1.10.2
1.55.1 Available under license

1.56 body-parser 1.12.2
1.56.1 Available under license

1.57 body-parser 1.12.0
1.57.1 Available under license

1.58 body-parser 1.12.4
1.58.1 Available under license

1.59 boom 2.6.1
1.59.1 Available under license

1.60 boom 2.7.2
1.60.1 Available under license

1.61 boom 0.4.2
1.61.1 Available under license

1.62 boost 1.55 :0
1.62.1 Available under license

1.63 boost - caramel 1.55 :0
1.63.1 Notifications
1.63.2 Available under license

1.64 brace-expansion 1.1.0
1.64.1 Available under license

1.65 bson 0.2.21
1.65.1 Available under license

1.66 bson 0.2.19
1.66.1 Available under license

1.67 bson 0.2.20
1.67.1 Available under license
1.68 bson 0.2.2
  1.68.1 Available under license
1.69 bson 0.1.4
  1.69.1 Available under license
1.70 buffer 3.0.1
  1.70.1 Available under license
1.71 Buffer 0.0.0
  1.71.1 Available under license
1.72 buffer-crc32 0.1.1
  1.72.1 Available under license
1.73 buffer-crc32 0.2.1
  1.73.1 Available under license
1.74 buffer-crc32 0.2.3
  1.74.1 Available under license
1.75 buffer-more-ints 0.0.2
  1.75.1 Available under license
1.76 buffers 0.1.1
  1.76.1 Available under license
1.77 bunyan 0.21.4
  1.77.1 Available under license
1.78 bytes 0.1.0
  1.78.1 Available under license
1.79 bytes 1.0.0
  1.79.1 Available under license
1.80 bytes 0.2.0
  1.80.1 Available under license
1.81 bytes 0.2.1
  1.81.1 Available under license
1.82 bytes 2.1.0
  1.82.1 Available under license
1.83 camelcase 1.1.0
  1.83.1 Available under license
1.84 cancelable 0.1.0
  1.84.1 Available under license
1.85 caseless 0.9.0
  1.85.1 Available under license
1.86 caseless 0.8.0
  1.86.1 Available under license
1.87 caseless 0.10.0
   1.87.1 Available under license

1.88 CentOS-MOS 7 :2.4.0
   1.88.1 GNU GENERAL PUBLIC LICENSE Version 2
   1.88.2 GNU LESSER GENERAL PUBLIC LICENSE Version 2.1
   1.88.3 GNU GENERAL PUBLIC LICENSE Version 3
   1.88.4 GNU LESSER GENERAL PUBLIC LICENSE Version 3

1.89 chainsaw 0.1.0
   1.89.1 Available under license

1.90 chalk 1.0.0
   1.90.1 Available under license

1.91 character-parser 1.0.2
   1.91.1 Available under license

1.92 character-parser 1.2.1
   1.92.1 Available under license

1.93 clone 0.1.0
   1.93.1 Available under license

1.94 clone 0.2.0
   1.94.1 Available under license

1.95 clone 1.0.2
   1.95.1 Available under license

1.96 cloud-init 0.7.5 :6.el7
   1.96.1 Available under license

1.97 cluster-glue 1.0.12 :1.fedora
   1.97.1 Available under license

1.98 coffee-script 1.4.0
   1.98.1 Available under license

1.99 colors 0.5.1
   1.99.1 Available under license

1.100 colors 0.6.2
   1.100.1 Available under license

1.101 combined-stream 0.0.7
   1.101.1 Available under license

1.102 combined-stream 1.0.3
   1.102.1 Available under license

1.103 commander 2.1.0
   1.103.1 Available under license

1.104 commander 2.7.1
   1.104.1 Available under license
1.105 commander 0.6.1
  1.105.1 Available under license
1.106 commander 2.8.1
  1.106.1 Available under license
1.107 commander 2.6.0
  1.107.1 Available under license
1.108 commander 2.0.0
  1.108.1 Available under license
1.109 commander 1.3.2
  1.109.1 Available under license
1.110 commander 1.2.0
  1.110.1 Available under license
1.111 compressible 1.0.0
  1.111.1 Available under license
1.112 compressible 2.0.2
  1.112.1 Available under license
1.113 compression 1.4.1
  1.113.1 Available under license
1.114 compression 1.0.0
  1.114.1 Available under license
1.115 compression 1.4.3
  1.115.1 Available under license
1.116 compression 1.4.4
  1.116.1 Available under license
1.117 concat-map 0.0.1
  1.117.1 Available under license
1.118 connect 3.3.4
  1.118.1 Available under license
1.119 connect 2.29.1
  1.119.1 Available under license
1.120 connect 2.29.0
  1.120.1 Available under license
1.121 connect 2.14.1
  1.121.1 Available under license
1.122 connect 2.8.8
  1.122.1 Available under license
1.123 connect 2.7.2
  1.123.1 Available under license
1.124 connect 2.8.7
Open Source Used In Virtual Media Packager 2.7

1.124.1 Available under license

1.125 connect 2.12.0
1.125.1 Available under license

1.126 connect 3.3.5
1.126.1 Available under license

1.127 connect 2.29.2
1.127.1 Available under license

1.128 connect-timeout 1.6.0
1.128.1 Available under license

1.129 connect-timeout 1.0.0
1.129.1 Available under license

1.130 connect-timeout 1.6.1
1.130.1 Available under license

1.131 connect-timeout 1.6.2
1.131.1 Available under license

1.132 constantinople 3.0.1
1.132.1 Available under license

1.133 constantinople 1.0.2
1.133.1 Available under license

1.134 content-disposition 0.5.0
1.134.1 Available under license

1.135 content-type 1.0.1
1.135.1 Available under license

1.136 contextify 0.1.13
1.136.1 Available under license

1.137 contextify 0.1.14
1.137.1 Available under license

1.138 cookie 0.1.3
1.138.1 Available under license

1.139 cookie 0.1.0
1.139.1 Available under license

1.140 cookie 0.1.2
1.140.1 Available under license

1.141 cookie 0.1.1
1.141.1 Available under license

1.142 cookie 0.0.5
1.142.1 Available under license

1.143 cookie-parser 1.3.2
1.143.1 Available under license
1.144 cookie-parser 1.3.4
   1.144.1 Available under license
1.145 cookie-parser 1.0.1
   1.145.1 Available under license
1.146 cookie-parser 1.3.5
   1.146.1 Available under license
1.147 cookie-signature 1.0.5
   1.147.1 Available under license
1.148 cookie-signature 1.0.4
   1.148.1 Available under license
1.149 cookie-signature 1.0.3
   1.149.1 Available under license
1.150 cookie-signature 0.0.1
   1.150.1 Available under license
1.151 cookie-signature 1.0.6
   1.151.1 Available under license
1.152 cookie-signature 1.0.1
   1.152.1 Available under license
1.153 cookiejar 1.3.0
   1.153.1 Available under license
1.154 core-util-is 1.0.1
   1.154.1 Available under license
1.155 coveralls 2.11.2
   1.155.1 Available under license
1.156 crc 3.2.1
   1.156.1 Available under license
1.157 cryptiles 0.2.2
   1.157.1 Available under license
1.158 cryptiles 2.0.4
   1.158.1 Available under license
1.159 crypto 0.0.3
   1.159.1 Available under license
1.160 csrf 2.0.6
   1.160.1 Available under license
1.161 csrf 2.0.7
   1.161.1 Available under license
1.162 css 1.0.8
   1.162.1 Available under license
1.163 css-parse 1.0.4
1.163.1 Available under license

1.164 css-stringify 1.0.5
  1.164.1 Available under license

1.165 cssom 0.2.5
  1.165.1 Available under license

1.166 cssom 0.3.0
  1.166.1 Available under license

1.167 cssstyle 0.2.27
  1.167.1 Available under license

1.168 cssstyle 0.2.23
  1.168.1 Available under license

1.169 csurf 1.0.0
  1.169.1 Available under license

1.170 csurf 1.7.0
  1.170.1 Available under license

1.171 ctype 0.5.3
  1.171.1 Available under license

1.172 cycle 1.0.3
  1.172.1 Available under license

1.173 cyrus-sasl/libdes 2.1.26 :17.el7
  1.173.1 Notifications
  1.173.2 Available under license

1.174 data-structures 1.4.2
  1.174.1 Available under license

1.175 dateutil 0.1.0
  1.175.1 Available under license

1.176 debug 1.0.4
  1.176.1 Available under license

1.177 debug 0.8.1
  1.177.1 Available under license

1.178 debug 0.7.4
  1.178.1 Available under license

1.179 debug 2.1.3
  1.179.1 Available under license

1.180 debug 0.8.0
  1.180.1 Available under license

1.181 debug 2.2.0
  1.181.1 Available under license

1.182 debug 2.1.1
1.182.1 Available under license
1.183 **decamelize** 1.0.0
   1.183.1 Available under license
1.184 **deep-diff** 0.1.7
   1.184.1 Available under license
1.185 **deep-diff** 0.2.0
   1.185.1 Available under license
1.186 **deep-equal** 1.0.0
   1.186.1 Available under license
1.187 **delayed-stream** 1.0.0
   1.187.1 Available under license
1.188 **delayed-stream** 0.0.5
   1.188.1 Available under license
1.189 **depd** 1.0.1
   1.189.1 Available under license
1.190 **depd** 0.4.4
   1.190.1 Available under license
1.191 **depd** 1.0.0
   1.191.1 Available under license
1.192 **dequeue** 1.0.3
   1.192.1 Available under license
1.193 **destroy** 1.0.3
   1.193.1 Available under license
1.194 **dhcp/bind** 4.2.5 :27.el7.centos
   1.194.1 Notifications
   1.194.2 Available under license
1.195 **dhcp/bind/contrib** 4.2.5 :27.el7.centos
   1.195.1 Available under license
1.196 **dhcp/dhclient-script** 4.2.5 :27.el7.centos
   1.196.1 Available under license
1.197 **dhcping** 1.2 :13.el7
   1.197.1 Available under license
1.198 **diff** 1.0.7
   1.198.1 Available under license
1.199 **diskspace** 0.1.7
   1.199.1 Available under license
1.200 **docco** 0.4.0
   1.200.1 Available under license
1.201 **domain** 0.0.0
<table>
<thead>
<tr>
<th>Version</th>
<th>Package Name</th>
<th>Version</th>
<th>Available under license</th>
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<tbody>
<tr>
<td>1.201.1</td>
<td>Available under license</td>
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<td></td>
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<td>1.202</td>
<td>dtrace-provider 0.2.8</td>
<td>1.202.1</td>
<td>Available under license</td>
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<tr>
<td>1.203</td>
<td>ee-first 1.1.0</td>
<td>1.203.1</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.204</td>
<td>ee-first 1.0.3</td>
<td>1.204.1</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.205</td>
<td>elasticsearch 1.1.1 :1</td>
<td>1.205.1</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.206</td>
<td>elementtree 0.1.6</td>
<td>1.206.1</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.207</td>
<td>emitter-component 1.0.0</td>
<td>1.207.1</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.208</td>
<td>enum 0.2.5</td>
<td>1.208.1</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.209</td>
<td>enum 0.2.7</td>
<td>1.209.1</td>
<td>Available under license</td>
</tr>
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<td>1.210</td>
<td>epel-release 7 :2</td>
<td>1.210.1</td>
<td>Available under license</td>
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<td>1.211</td>
<td>erlang R16B</td>
<td>1.211.1</td>
<td>Available under license</td>
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<td>erlang_LGPLv2.1 R16B</td>
<td>1.212.1</td>
<td>Available under license</td>
</tr>
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<td>1.213</td>
<td>errorhandler 1.3.5</td>
<td>1.213.1</td>
<td>Available under license</td>
</tr>
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<td>1.214</td>
<td>errorhandler 1.0.0</td>
<td>1.214.1</td>
<td>Available under license</td>
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<td>1.215</td>
<td>errorhandler 1.3.4</td>
<td>1.215.1</td>
<td>Available under license</td>
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<td>1.216</td>
<td>errorhandler 1.1.1</td>
<td>1.216.1</td>
<td>Available under license</td>
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<td>errorhandler 1.3.6</td>
<td>1.217.1</td>
<td>Available under license</td>
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<td>1.218</td>
<td>escape-html 1.0.1</td>
<td>1.218.1</td>
<td>Available under license</td>
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<tr>
<td>1.219</td>
<td>escape-string-regexp 1.0.3</td>
<td>1.219.1</td>
<td>Available under license</td>
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<td>1.220</td>
<td>escodegen 1.3.3</td>
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<td>Package</td>
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<td>0.2.13 :4.el7</td>
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<td>1.234</td>
<td>expat_PrintPath</td>
<td>2.1.0 :8.el7</td>
<td></td>
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<tr>
<td>1.234.1</td>
<td></td>
<td>Notifications</td>
<td></td>
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<td>0.1.1</td>
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1.13 ain2 1.2.1

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1.16 ansi-regex 1.1.1

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

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

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

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

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

'[4mcake[0m'.match(ansiRegex());
//=> ['[4m', '[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()`.*

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1.17 ansi-styles 2.0.1
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> [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.

![screenshot.png]

## 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);
```

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1.20 asn1 0.2.1
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1.23 assert 1.1.2

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// http://wiki.commonjs.org/wiki/Unit_Testing/1.0

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// when used in node, this will actually load the util module we depend on
// versus loading the builtin util module as happens otherwise
// this is a bug in node module loading as far as I am concerned

1.24 assert-plus 0.1.5

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1.31 async 0.9.0

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/*!*
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 *
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1.32 atk/tk.po 2.8.0 :4.el7

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1.34 attr/libattr 2.4.46 :12.el7

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1.35 aws-sign2 0.5.0

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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' }
```

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1.43 basic-auth-connect 1.0.0

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

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

## API

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

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

Simple username and password

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

Callback verification

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

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

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

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1.44 batch 0.5.0

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1.45 batch 0.5.2

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# batch

Simple async batch with concurrency control and progress reporting.

## Installation

```bash
$ npm install batch
```

## API

```javascript
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.

```javascript
{
    index: 1,
    value: 'bar',
    pending: 2,
    total: 3,
}
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1.46 binary 0.3.0

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```json
{
    "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.el7

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Index: openssl/crypto/engine/cryptoki.h
diff -u /dev/null openssl/crypto/engine/cryptoki.h
--- /dev/null Thu May 16 07:44:28 2013
+++ /dev/null Thu Dec 18 00:14:12 2008
@@ -0,0 +1,103 @@
+/*
+ * CDDL HEADER START
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.

```js
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:356:12)
at Function.Module._load (module.js:312:12)
```
License
-------

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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
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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`:

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```

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.

```bash
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/Release/binding.node
  /Users/nrajlich/ref/build/default/binding.node
  /Users/nrajlich/ref/compiled/0.8.2/darwin/x64/binding.node
```
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:

```javascript
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:

```javascript
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:

```xml
<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:

```xml
<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>

## 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
1.53.1 Available under license:

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1.54 body-parser 1.5.2

1.54.1 Available under license:

# body-parser

[![NPM version](https://badge.fury.io/js/body-parser.svg)](https://badge.fury.io/js/body-parser)

Node.js body parsing middleware.

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

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

Other body parsers you might be interested in:
- [body](https://www.npmjs.org/package/body#readme)
- [co-body](https://www.npmjs.org/package/co-body#readme)

## Installation

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

## API

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

var app = express()

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

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

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

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

### bodyParser.json(options)

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

The options are:

- `strict` - only parse objects and arrays. (default: `true`)
- `inflated` - 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 time 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:

- `influe` - 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 time 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`)  
- `influe` - 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 time 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 time 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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1.64 brace-expansion 1.1.0

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```bash
# brace-expansion

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


## 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', 'pppoconf']
```

## API

```js
var expand = require('brace-expansion');
```
```js
/(\.*)(-\+)?$/
// {a,b,...}
```

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

```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
```

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

Byte string parser / formatter.

## Example:

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

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

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

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

## Installation

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

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1.79 bytes 1.0.0

1.79.1 Available under license:

# node-bytes

Byte string parser / formatter.

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

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

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

bytes(1073741824)
// => 1gb

bytes(1099511627776)
// => 1tb
```

## Installation

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

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1.80 bytes 0.2.0

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# node-bytes

Byte string parser / formatter.

## Example:

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

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

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

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

## Installation

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

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# bytes utility

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

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

## Usage

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

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

**Arguments**

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

**Options**

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

**Returns**

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

**Example**

```js
bytes(1024);
// output: ’1kB’
bytes(1000);
```
```
### bytes.parse(string value): number|null

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

**Arguments**

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

**Returns**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>results</td>
<td>number</td>
<td>null</td>
</tr>
</tbody>
</table>

**Example**

```js
```
1.83.1 Available under license:

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

> 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

**1.84.1 Available under license:**

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### 1.85 caseless 0.9.0

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```json
{
    "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"
    }
}
```
1.86 caseless 0.8.0

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```json
{
  "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

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```json
{
    "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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1.89 chainsaw 0.1.0

1.89.1 Available under license:

```json
{
    "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:

```html
<h1 align="center">
  <br>
  ![Build Status](https://travis-ci.org/sindresorhus/chalk.svg?branch=master) ![colors.js](https://github.com/Marak/colors.js)
  <br>
  ![Terminal string styling done right](https://cdn.rawgit.com/sindresorhus/chalk/19935d6484811c5e468817f846b7b3d417d7bf4a/logo.svg)
  <br>
  ![colors.js](https://github.com/Marak/colors.js) used to be the most popular string styling module, but it has serious
</h1>
```
deficiencies like extending `String.prototype` which causes all kinds of [problems](https://github.com/yeoman/yo/issues/68). Although there are other ones, they either do too much or not enough.

**Chalk is a clean and focused alternative.**

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

## Why

- Highly performant
- Doesn’t extend `String.prototype`
- Expressive API
- Ability to nest styles
- Clean and focused
- Auto-detects color support
- Actively maintained
- [Used by ~3000 modules](https://www.npmjs.com/browse/depended/chalk)

## Install

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

## Usage

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

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

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

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

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

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

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

// nest styles of the same type even (color, underline, background)
chalk.green(
    'I am a green line ' +
    chalk.blue.underline.bold('with a blue substring') +
    ' that becomes green again!' +
);```

Easily define your own themes.
```
```js
var chalk = require('chalk');
var error = chalk.bold.red;
console.log(error('Error!'));
```

Take advantage of console.log [string substitution](http://nodejs.org/docs/latest/api/console.html#console_console_log_data).
```
```js
var name = 'Sindre';
console.log(chalk.green('Hello %s'), name);
//=> Hello Sindre
```

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

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

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

Multiple arguments will be separated by space.

### chalk.enabled

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

If you need to change this in a reusable module create a new instance:
```
```js
var ctx = new chalk.constructor({enabled: false});

Open Source Used In Virtual Media Packager 2.7
### 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`
- `strike-through` *(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 support anything other than the base eight colors, which guarantees it will work on all terminals and systems. Some terminals, specifically `xterm` compliant ones, will support the full range of 8-bit colors. For this the lower level [ansi-256-colors](https://github.com/jbnicolai/ansi-256-colors) package can be used.

## Windows

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


### Installation

```
npm install character-parser
```

### Usage

Work out how much depth changes:

```
```js
 var state = parse('foo(arg1, arg2, {
  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="\nfoo: [a, b\n');
 assert(section.start === 0);
 assert(section.end === 16);//exclusive end of string
 assert(section.src = 'foo="\nfoo: [a, b\n');

 var section = parser.parseMax('{foo="\nfoo: [a, b\n');
```
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.

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1.103 commander 2.1.0
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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.

```
#!/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')
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
```
```
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:

```bash
$ ./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('    $ 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:

```javascript
```
javascript

```javascript
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

```javascript
```
javascript

```javascript
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("%s" using %s mode', cmd, options.exec_mode);
 }).on('--help', function() {
   console.log("Examples:");
   console.log("  $ deploy exec sequential");
   console.log("  $ deploy exec async");
   console.log();
 });

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

program.parse(process.argv);

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

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1.106 commander 2.8.1

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# Commander.js

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

[API documentation](http://tj.github.com/commander.js/)

## Installation

$ npm install commander
## Option parsing

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

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

/**
 * Module dependencies.
 */

var program = require('commander');

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

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

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

## Coercion

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

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

function collect(val, memo) {
  memo.push(val);
  return memo;
}
```
function increaseVerbosity(v, total) {
  return total + 1;
}

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

console.log(' int: %j', program.integer);
console.log(' float: %j', program.float);
console.log(' optional: %j', program.optional);
program.range = program.range || [];   // Ensure range is an array
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
```javascript
#!/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

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

var program = require('commander');

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);
}
```javascript
console.log('command:', cmdValue);
console.log('environment:', envValue || "no environment given");
```

## Git-style sub-commands

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

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

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

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

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

### `--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('    $ custom-help --help');
  console.log('    $ custom-help -h');
  console.log('    $ custom-help --foo');
  console.log('    $ custom-help -f');
  console.log('    $ custom-help -b');
  console.log('    $ custom-help -B');
  console.log('    $ custom-help --bar');
  console.log('    $ custom-help --baz');
  console.log('    $ custom-help --cheese marble');
  console.log('    $ custom-help --cheese');
  console.log('    $ custom-help --no-cheese');
  console.log('    $ custom-help');
});

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(' $ deploy exec sequential');
    console.log(' $ deploy exec async');
  });

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
1.107 commander 2.6.0

1.107.1 Available under license:

# Commander.js

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

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

## Installation

$ npm install commander

## Option parsing

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

```
```
j
#!/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.

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

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

## Automated --help

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

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

Usage: pizza [options]

An application for pizzas ordering

Options:

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

## Custom help

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

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

```
* Module dependencies.
* /

var program = require('commander');

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

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

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

program.parse(process.argv);

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

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

```

Usage: custom-help [options]

Options:

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

Examples:

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

```
## .outputHelp()

Output help information without exiting.

## .help()

Output help information and exit immediately.

## Examples

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

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

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

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

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

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

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1.108 commander 2.0.0

1.108.1 Available under license :

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1.109 commander 1.3.2
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/*!
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*/

1.110 commander 1.2.0
# 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)

## 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('  - pineappe');
if (program.bbq) console.log('  - bbq');
if (program.cheese) 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 pineapple
- 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>..<b>', '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(' $ custom-help --help');
  console.log(' $ custom-help -h');

  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]);

Open Source Used In Virtual Media Packager 2.7

272


### .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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1.111 compressible 1.0.0
1.11.1 Available under license:

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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1.112 compressible 2.0.2

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1.113 compression 1.4.1

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1.114 compression 1.0.0

1.114.1 Available under license:

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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1.115 compression 1.4.3

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1.117 concat-map 0.0.1
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1.118 connect 3.3.4

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1.119 connect 2.29.1

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# Timeout

Previously `connect.timeout()`.

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

## API

### fn = timeout(ms)

Returns middleware that times out in `ms` milliseconds.

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

1.143 cookie-parser 1.3.2

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# cookie-parser

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

```js
var cookieParser = require('cookie-parser');

connect()
 .use(cookieParser('optional secret string'))
 .use(function(req, res, next){
   res.end(JSON.stringify(req.cookies));
 })
```

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

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### 1.147 cookie-signature 1.0.5

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```shell
# cookie-signature

Sign and unsign cookies.

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

var val = cookie.sign('hello', 'tobiiscool');
val.should.equal('hello.DGDUkGlIkCzPz+C0B064FN9Ejox7ch8tOBGslZ5QI');

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

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# cookie-signature

Sign and unsign cookies.

## Example

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

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

```js
# cookie-signature

Sign and unsign cookies.

## Example

```
var val = cookie.sign('hello', 'tobiiscool');
val.should.equal('hello.DGDUkGllkCzPz+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');
```
```javascript
var val = cookie.sign('hello', 'tobiiscool');
val.should.equal('hello.DGDUkGlIkCzPz+C0B064FNgHdEjox7ch8tOBGslZ5QI');

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

```text
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```

### 1.151 cookie-signature 1.0.6

**1.151.1 Available under license:**

```javascript
# cookie-signature

Sign and unsign cookies.

## Example

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

var val = cookie.sign('hello', 'tobiiscool');
```
val.should.equal('hello.DGDUkGlIkCzPz+C0B064FNgHdEjox7ch8tOBGslZ5QI');

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

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1.152 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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1.155 coveralls 2.11.2

1.155.1 Available under license:

```json
{
  "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)",
    "elliotcable <github@elliottcable.name> (http://elliottcable.name)/",
    "Slotos <slotos@gmail.com> (http://slotos.net)",
    "mattjmorrison <mattjmorrison@mattjmorrison.com> (http://mattjmorrison.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"
  }
}
```
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:

```json
{
  "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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1.161 csrf 2.0.7

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# 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
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 })`:
```
```
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:

```python
# 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.

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```

**1.165 cssom 0.2.5**
1.165.1 Available under license:

```json
{
    "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

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1.167 cssstyle 0.2.27

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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:

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{
    "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": "*"
    }
}
```
1.170 csurf 1.7.0
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1.171 ctype 0.5.3
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tools/jsstyle

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1.172 cycle 1.0.3
1.172.1 Available under license :
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"type": "git", "url": "http://github.com/dscape/cycle.git"

1.173 cyrus-sasl/libdes 2.1.26 :17.el7
1.173.1 Notifications :
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1.174 data-structures 1.4.2

1.174.1 Available under license :

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1.175 dateutil 0.1.0
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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.

```bash
```
```
```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.

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

// fake app

deq('booting %s', name);

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

// fake worker of some kind

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

Example _worker.js_:

```javascript
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/1X413v1a3M0d3C2e1E0i/Screenshot.png)

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

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

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

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

## Conventions

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

## Wildcards

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

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

## Browser support

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

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

### stderr vs stdout

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

Example `_stderr.js_:

```js
```

```js
class log {
  constructor(name) {
    this._name = name;
  }

  log(message) {
    console.log(`[${this._name}] ${message}`);
  }
```

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

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

```js
log('goes to stdout!');
```

```js
var error = require('./error');
```

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

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

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

```js
var error = require('./error');
```

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

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

```js
// set this namespace to log via console.error
error.log = console.error.bind(console); // don't forget to bind to console!
```

```js
error('goes to stderr!');
```

```js
log('still goes to stderr!');
```

```js
// set all output to go via console.warn
// overrides all per-namespace log settings
debug.log = console.warn.bind(console);
```

```js
log('now goes to stderr via console.warn');
```

```js
error('still goes to stderr, but via console.warn now');
```

```js
```

## 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.

Example _app.js_:

```
// fake app
```
debug('booting %s', name);

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

// fake worker of some kind

require('./worker');

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

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

Example _worker.js_:

```
```

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.

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

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

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

## Conventions

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

## Wildcards

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

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

## Browser support

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

```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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1.178 debug 0.7.4

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

// fake app

debut('booting %s', name);

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

// fake worker of some kind

require('./worker');
```js
```
Example _worker.js_:```js
```js
var debug = require('debug')('worker');

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

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

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

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

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

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

Then, run the program to be debugged as usual.

## Millisecond diff

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

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

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

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

## Conventions

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

## Wildcards

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

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

## Browser support

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

```js
window.myDebug = require("debug");
```
("debug" is a global object in the browser so we give this object a different name.) When your page is open in the browser, type the following in the console:

```
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.

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

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

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

#### Web Inspector Colors

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

Colored output looks something like:

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

### stderr vs stdout

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

Example _stdout.js_:

```
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';
    ...
    debug('booting %s', name);
    http.createServer(function(req, res){
      debug(req.method + ' ' + req.url);
      res.end('hello
');
    }).listen(3000, function(){
      debug('listening');
    });
    ...
    // fake worker of some kind
    require('./worker');
    ...
    ```

    Example _worker.js_:

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

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

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

![debug worker](http://f.cl.ly/items/IX413v1a3M0d3C2c1E0i/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.

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

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

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

## Conventions

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

## Wildcards

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

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

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

debu('booting %s', name);

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

// fake worker of some kind

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

Example _worker.js_:

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

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

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

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

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

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

Then, run the program to be debugged as usual.

## Millisecond diff

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

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

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

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

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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:

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

### stderr vs stdout

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

Example `_stdout.js_:

```js
var debug = require('debug');
var error = debug('app:error');
```
// by default stderr is used
error('goes to stderr!');

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

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

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

// fake worker of some kind
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:

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

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.

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

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

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

## Conventions

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

## Wildcards

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

```
`DEBUG=connect:bodyParser,connect.compress,connect:session`
```

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

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

## Browser support

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

```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-subsolute-text-keys-much-more-firefox-developer-tools-episode-31/)) and the Firebug plugin for Firefox (any version).

Colored output looks something like:

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

### stderr vs stdout

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

```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)

> Convert a camelized string into a lowercased one with a custom separator
> Example: `unicornRainbow` = `unicorn_rainbow`

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

```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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**1.187 delayed-stream 1.0.0**

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1.188 delayed-stream 0.0.5

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1.189 depd 1.0.1

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1.192 dequeue 1.0.3
1.192.1 Available under license:

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"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

```js
var destroy = require('destroy')
var fs = require('fs')
var stream = fs.createReadStream('package.json')
destroy(stream)
```
1.194 dhcp/bind 4.2.5 :27.el7.centos

1.194.1 Notifications :

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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
3a0982da308228d796df35f98d787c5caff2bb5b6.
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

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Author(s): David Cantrell <dcantrell@redhat.com>
Author(s): Jiri Popelka <jpopelka@redhat.com>

This script is a rewrite/rewriting on dhclient-script originally
included as part of dhcp-970306:

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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#
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1.198 diff 1.0.7

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1.202 dtrace-provider 0.2.8

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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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1.207 emitter-component 1.0.0

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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.

<table>
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<th><strong>Description</strong></th>
<th><strong>Size</strong></th>
</tr>
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<td><em>uncompressed, with comments</em></td>
<td><a href="https://raw.github.com/adrai/enum/master/enum-0.2.7.js">Download</a></td>
</tr>
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<td><a href="https://raw.github.com/adrai/enum/master/enum-0.2.7.min.js">Download</a></td>
</tr>
</tbody>
</table>

# 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.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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/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.3, July 18th, 2005

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   The data format used by the zlib library is described by RFCs (Request for
   Comments) 1950 to 1952 in the files http://www.ietf.org/rfc/rfc1950.txt
   (zlib format), rfc1951.txt (deflate format) and rfc1952.txt (gzip format).

*/

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THE BASIC LIBRARY FUNCTIONS
-------------------------------

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

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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 (deflate format) and rfc1952.txt (gzip format).

*/

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# Error Handler

Previously `connect.errorHandler()`.

Usage:

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

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1.216 errorhandler 1.1.1
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# errorhandler

[![NPM version](https://badge.fury.io/js/errorhandler.svg)](http://badge.fury.io/js/errorhandler)
Previously `connect.errorHandler()`.

## Install

```sh
```sh
$ npm install errorhandler
```sh
```

## 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
```js
var connect = require('connect')
var errorhandler = require('errorhandler')

var app = connect()

if (process.env.NODE_ENV === 'development') {
  app.use(errorhandler())
}
```js
```

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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)

> Escape RegExp special characters

### Install

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

### Usage

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

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

new RegExp(escapedString);
```

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---

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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)
- 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).

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1.222 esprima 1.1.1

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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, ...)

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### Features

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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 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)
- Heavily tested (> 550 [unit tests](http://esprima.org/test/) with solid 100% statement coverage)
- Optional tracking of syntax node location (index-based and line-column)
- Experimental support for ES6/Harmony (module, class, destructuring, ...)

Esprima is blazing fast (see the [benchmark suite](http://esprima.org/test/benchmarks.html)). It is up to 3x faster than UglifyJS v1 and it is still [competitive](http://esprima.org/test/compare.html) with the new generation of fast parsers.

### Applications

Esprima serves as the basis for many popular JavaScript development tools:

- Code coverage analysis: [node-cover](https://github.com/itay/node-cover), [Istanbul](https://github.com/yahoo/Istanbul)
- Documentation tool: [JFDoc](https://github.com/thejohnfreeman/jfdoc), [JSDuck](https://github.com/senchalabs/jsduck)
- Language extension: [LLJS](http://mbebenita.github.com/LLJS/) (low-level JS), [Sweet.js](http://sweetjs.org/) (macro)
- ES6/Harmony transpiler: [Six](https://github.com/matthewrobb/six), [Harmonizr](https://github.com/jdiamond/harmonizr)
- Eclipse Orion smart editing ([outline view](https://github.com/aclement/esprima-outline), [content assist](http://contraptionsforprogramming.blogspot.com/2012/02/better-javascript-content-assist-in.html))
- Source code modification: [Esmorph](https://github.com/ariya/esmorph), [Code Painter](https://github.com/fawek/codepainter),
- Source transformation: [node-falafel](https://github.com/substack/node-falafel), [Esmangle](https://github.com/Constellation/esmangle), [escodegen](https://github.com/Constellation/escodegen)

### Questions?

- [Documentation](http://esprima.org/doc)
- [Issue tracker](http://issues.esprima.org): [known problems](http://code.google.com/p/esprima/issues/list?q=Defect)
and [future plans](http://code.google.com/p/esprima/issues/list?q=Enhancement)
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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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1.229 eventemitter3 0.1.6

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1.231 eventlog 0.2.13 :4.el7

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`{
  "name": "events",
  "id": "events",
  "version": "1.0.0",
  "description": "Node's event emitter for all engines.",
  "keywords": [
    "events",
    "eventEmitter",
  ]
}`


1.234 expat_PrintPath 2.1.0 :8.el7

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## 1.235 expect 0.1.1

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[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_dosnotthrow_block_message).

``` 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).toInclude(value, [comparator], [message])

Asserts the given `array` contains `value`. The `comparator` function, if given, should compare two objects and either `return false` or `throw` if they are not equal. It defaults to `assert.deepEqual`.

``` js
expect([ 1, 2, 3 ]).toInclude(3);
```

#### expect(array).toExclude(value, [comparator], [message])

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**

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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
### 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).toThrow([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(new User).toBeA(string);
```
```
```
```
expect([ 1, 2, 3 ]).toExclude(4);
```

```
#### expect(string).toInclude(value, [message])
#### expect(string).toContain(value, [message])

Asserts the given `string` contains `value`.

```js
expect('hello world').toInclude('world');
expect('hello world').toContain('world');
```

```
#### expect(string).toExclude(value, [message])
#### expect(string).toNotContain(value, [message])

Asserts the given `string` does not contain `value`.

```js
expect('hello world').toExclude('goodbye');
expect('hello world').toNotContain('goodbye');
```

```
#### Chaining Assertions

Every assertion returns an `Expectation` object, so you can chain assertions together.

```js
expect(3.14)
  .toExist()
  .toBeLessThan(4)
  .toBeGreaterThan(3);
```

```
#### Installation

Using [npm](https://www.npmjs.org/):

```
$ npm install expect
```

Or, include `dist/expect.min.js` in your page using a `<script>` tag:

```html
<script src="expect.min.js"></script>
```

```
#### Issues
```
Please file issues on the [issue tracker on GitHub](https://github.com/mjackson/expect/issues).

### Tests

To run the tests in node:

$ npm install  
$ npm test

To run the tests in Chrome:

$ npm install  
$ npm run test-browser

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### 1.237 expect.js 0.3.1

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# 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`:
```bash
$ npm install expect.js
```

Then:

```js
var expect = require('expect.js');
```

### Browser

Expose the `expect.js` found at the top level of this repository.

```html
<script src="expect.js"></script>
```

## API

**ok**: asserts that the value is _truthy_ or not

```js
expect(1).to.be.ok();
expect(true).to.be.ok();
expect({}).to.be.ok();
expect(0).to.not.be.ok();
```

**be** / **equal**: asserts `===` equality

```js
expect(1).to.be(1)
expect(NaN).not.to.equal(NaN);
expect(1).not.to.be(true)
expect('1').to.not.be(1);
```

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

```js
expect({ a: 'b' }).to.eql({ a: 'b' });
expect(1).to.eql(1);
```

**a**/**an**: asserts `typeof` with support for `array` type and `instanceof`

```js
```
// typeof with optional `array`
expect(5).to.be.a('number');
expect([]).to.be.an('array'); // works
expect([]).to.be.an('object'); // works too, since it uses `typeof``

// constructors
expect(5).to.be.a(Number);
expect([]).to.be.an(Array);
expect(tobi).to.be.a(Ferret);
expect(person).to.be.a(Mammal);
```

**match**: asserts `String` regular expression match
```
```js
```

**contain**: asserts indexOf for an array or string
```
```js
expect([1, 2]).to.contain(1);
expect('hello world').to.contain('world');
```

**length**: asserts array `.length`
```
```js
expect([]).to.have.length(0);
expect([1,2,3]).to.have.length(3);
```

**empty**: asserts that an array is empty or not
```
```js
expect([]).to.be.empty();
expect({}).to.be.empty();
expect({ length: 0, duck: 'typing' }).to.be.empty();
expect({ my: 'object' }).to.not.be.empty();
expect([1,2,3]).to.not.be.empty();
```

**property**: asserts presence of an own property (and value optionally)
```
```js
expect(window).to.have.property('expect')
expect(window).to.have.property('expect', expect)
expect({ a: 'b' }).to.have.property('a');
```
**key**/**keys**: asserts the presence of a key. Supports the `only` modifier

```js
expect({ a: 'b' }).to.have.key('a');
expect({ a: 'b', c: 'd' }).to.only.have.keys('a', 'c');
expect({ a: 'b', c: 'd' }).to.only.have.keys(['a', 'c']);
expect({ a: 'b', c: 'd' }).to.not.only.have.key('a');
```

**throwException**/**throwError**: asserts that the `Function` throws or not when called

```js
expect(fn).to.throwError(); // synonym of throwException
expect(fn).to.throwException(function (e) { // get the exception object
    expect(e).to.be.a(SyntaxError);
  });
expect(fn).to.throwException(/matches the exception message/);
expect(fn2).to.not.throwException();
```

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

```js
expect(fn).withArgs(invalid, arg).to.throwException();
expect(fn).withArgs(valid, arg).to.not.throwException();
```

**within**: asserts a number within a range

```js
expect(1).to.be.within(0, Infinity);
```

**greaterThan**/**above**: asserts `>`

```js
expect(3).to.be.above(0);
expect(5).to.be.greaterThan(3);
```

**lessThan**/**below**: asserts `<`

```js
expect(0).to.be.below(3);
expect(1).to.be.lessThan(3);
```
**fail**: explicitly forces failure.

```js
expect().fail()
expect().fail("Custom failure message")
```

## Using with a test framework

For example, if you create a test suite with [mocha](http://github.com/visionmedia/mocha).

Let's say we wanted to test the following program:

**math.js**

```js
function add (a, b) { return a + b; }
```

Our test file would look like this:

```js
describe('test suite', function () {
    it('should expose a function', function () {
        expect(add).to.be.a('function');
    });

    it('should do math', function () {
        expect(add(1, 3)).to.equal(4);
    });
});
```

If a certain expectation fails, an exception will be raised which gets captured and shown/processed by the test runner.

## Differences with should.js

- No need for static `should` methods like `should.strictEqual`. For example, `expect(obj).to.be(undefined)` works well.
- Some API simplifications / changes.
- API changes related to browser compatibility.

## Running tests

Clone the repository and install the developer dependencies:
```bash
... 
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/`

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  "connect": "2.13.0",
  "supertest": "0.9.0",
  "should": "3.1.2",
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1.254 extend 1.2.1

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# extend() for Node.js

`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.
* `Object`

The object that will be merged into the first.
* `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].

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[11]: https://david-dm.org/justmoon/node-extend/dev-status.png
[12]: https://david-dm.org/justmoon/node-extend#info=devDependencies

1.255 eyes 0.1.8

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# finished

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

Execute a callback when a request closes, finishes, or errors.

```sh
$ npm install finished
```

##### Install

```sh
\$ npm install finished
```

##### Uses

This is useful for cleaning up streams. For example, you want to destroy any file streams you create on socket errors
otherwise you will leak file descriptors.

This is required to fix what many perceive as issues with node's streams. Relevant:

- [node#6041](https://github.com/joyent/node/issues/6041)
- [koa#184](https://github.com/koajs/koa/issues/184)
- [koa#165](https://github.com/koajs/koa/issues/165)
## API

### finished(response, callback)

```js
var onFinished = require('finished')

onFinished(res, function (err) {
  // do something maybe
})
```

### Examples

The following code ensures that file descriptors are always closed once the response finishes.

#### Node / Connect / Express

```js
var onFinished = require('finished')

function (req, res, next) {
  var stream = fs.createReadStream('thingie.json')
  stream.pipe(res)
  onFinished(res, function (err) {
    stream.destroy()
  })
}
```

#### Koa

```js
function* () {
  var stream = this.body = fs.createReadStream('thingie.json')
  onFinished(this, function (err) {
    stream.destroy()
  })
}
```

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1.269 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)
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* [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/compare/v0.1.0...v0.1.0)
## Installation

Via [npm](http://github.com/isaacs/npm):

```bash
npm install formidable@latest
```

Manually:

```bash
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.

```javascript
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:

');
            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 an 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.

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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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1.275 fresh 0.2.2
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# 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
** 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
```
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1.276 fs 0.0.2

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{
  "name": "fs",
  "version": "0.0.2",
  "description": "",
  "main": "index.js",
  "scripts": {
1.277 fs-ext 0.3.2

1.277.1 Available under license:

```
{
    "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": {},
    "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

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# generate-function

Module that helps you write generated functions in Node
## 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)
```
var addAndMultiply2 = addAndMultiplyNumber(2)

console.log('(3 + 2) * 2 =', addAndMultiply2(3))

## Related

See [generate-object-property](https://github.com/mafintosh/generate-object-property) if you need to safely generate code that can be used to reference an object property

## License

MIT

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### 1.281 generate-object-property 1.2.0

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1.282 get-stdin 4.0.1

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

> 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.
1.283 glob 3.2.11

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1.285 glob 3.2.3

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1.286 gmp_GPLv3 5.1.1 :5.el7

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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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1.295 har-validator 1.7.1

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

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

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

## Install

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

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

## Usage

```bash
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

```bash
```

```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
```

```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!');
});
```

```bash
```
### 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.response(data, function (e, valid) {
  if (e) console.log(e.errors)
});
```

### Validate.timings(data [, callback])
Returns `true` or `false`.

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

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

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

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

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1.296 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)

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

   ```
   ## Install
   ```

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

   ```
   ## Usage
   ```

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

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

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

   ```
   ## CLI
   ```

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

...

...

$ has-ansi --help

Usage

  has-ansi <string>
  echo <string> | has-ansi

Exits with code 0 if input has ANSI escape codes and 1 if not

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## 1.297 hashmap 1.0.0

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**1.303 hoek 2.11.0**

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```
hooks
```

Add pre and post middleware hooks to your JavaScript methods.

```markdown
## Installation

npm install hooks

```

```javascript
## 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.

```javascript
## 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 () {
    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');

// 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
```
```javascript
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();
});
```

```javascript
## 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.

```javascript
## Defining multiple pres (or posts)
`pre` is chainable, so you can define multiple pres via:
```javascript
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.

```javascript
## Error Handling
You can define a default error handler by passing a 2nd function as the 3rd argument to `hook`:
```javascript
Document.hook('set', function (path, val) {
    this[path] = val;
}, function (err) {
    // Handler the error here
    console.error(err);
});
```

Then, we can pass errors to this handler from a pre or post middleware function:
```javascript
Document.pre('set', function (next, path, val) {
    next(new Error());
});
```

If you do not set up a default handler, then `hooks` makes the default handler that just throws the `Error`.

The default error handler can be over-rided on a per method invocation basis.

If the main method that you are surrounding with pre and post middleware expects its last argument to be a function
with callback signature `function (error, ...)`, then that callback becomes the error handler, over-riding the default error handler you may have set up.

```javascript
Document.hook('save', function (callback) {
// Save logic goes here
...
});

var doc = new Document();
doc.save(function (err, saved) {
// We can pass err via `next` in any of our pre or post middleware functions
if (err) console.error(err);

// Rest of callback logic follows ...
});
...
```

## Mutating Arguments via Middleware
`pre` and `post` middleware can also accept the intended arguments for the method they augment. This is useful if you want to mutate the arguments before passing them along to the next middleware and eventually pass a mutated arguments list to the main method itself.

As a simple example, let’s define a method `set` that just sets a key, value pair. If we want to namespace the key, we can do so by adding a `pre` middleware hook that runs before `set`, alters the arguments by 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;
});
```
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;
});
```

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

```javascript
Document.pre('set', function pre2 (next, key, val, options) {
  console.log(arguments.length); // 4
  console.log(options); // '{ debug: true}'
  next();
});
```

```javascript
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();
});
```

```javascript
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:

```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();
```
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:

```javascript
Document.pre('set', someFn);
Document.removePre('set', someFn);
```

And you can also remove all pres associated with a hook:

```javascript
Document.removePre('set'); // Removes all declared 'pre's on the hook 'set'
```

## Tests

To run the tests:

```bash
make test
```

### Contributors

- [Brian Noguchi](https://github.com/bnoguchi)

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---
## hooks 0.3.2

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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:

```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.

```javascript
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`

```javascript
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`

```javascript
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`

```javascript
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
```
```

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
```
```

Then, we can pass errors to this handler from a pre or post middleware function:

```javascript
```
```

```javascript
```
If you do not set up a default handler, then `hooks` makes the default handler that just throws the `Error`.

The default error handler can be over-rided on a per method invocation basis.

If the main method that you are surrounding with pre and post middleware expects its last argument to be a function with callback signature `function (error, ...)`, then that callback becomes the error handler, over-riding the default error handler you may have set up.

```javascript
Document.hook('save', function (callback) {
  // Save logic goes here
  ...
});

var doc = new Document();
doc.save(function (err, saved) {
  // We can pass err via `next` in any of our pre or post middleware functions
  if (err) console.error(err);

  // Rest of callback logic follows ...
});
```

## Mutating Arguments via Middleware
`pre` and `post` middleware can also accept the intended arguments for the method they augment. This is useful if you want to mutate the arguments before passing them along to the next middleware and eventually pass a mutated arguments list to the main method itself.

As a simple example, let's define a method `set` that just sets a key, value pair. If we want to namespace the key, we can do so by adding a `pre` middleware hook that runs before `set`, alters the arguments by namespaces the `key` argument, and passes them onto `set`:

```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();
});
```
## 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. Target function

Illustrated below:

```javascript
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();
  });
});
```

```javascript
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();
});
```
```javascript
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 middleswares (`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:

```javascript
Document.pre('set', someFn);
Document.removePre('set', someFn);
```

And you can also remove all pres associated with a hook:

```javascript
Document.removePre('set'); // Removes all declared `pre`'s on the hook `set`
```

## Tests

To run the tests:

```bash
make test
```

## Contributors

- [Brian Noguchi](https://github.com/bnoguchi)

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1.310 http 0.0.0

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

1.311 http-errors 1.3.1

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1.313 http-proxy 1.11.1

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1.327 iomcurl 7.41.0 :IOM

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problems to some. This document attempts to describe what licenses libcurl and
the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

I am not a lawyer and this is not legal advice!

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1.328 iomlibuv 1.0.0 :rc2.IOM

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1.329 ipaddr.js 0.1.8

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Check if the given `value` is an `Array`.

```
# isArray

isArray(val)
```

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1.339 istanbul 0.3.0

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1.340 ivykis 0.36.2 :2.el7

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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

c) Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
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1.345 jison 0.3.12

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Jison

======

* [issues](http://github.com/zaach/jison/issues)
* [discuss](mailto:jison@librelist.com)

[[!build status](https://secure.travis-ci.org/zaach/jison.png)](http://travis-ci.org/zaach/jison)

An API for creating parsers in JavaScript

-----------------------------------------

Jison generates bottom-up parsers in JavaScript. Its API is similar to Bison’s, hence the name. It supports many of Bison’s major features, plus some of its own. If you are new to parser generators such as Bison, and Context-free Grammars in general, a [good introduction][1] is found in the Bison manual. If you already know Bison, Jison should be easy to pickup.

Briefly, Jison takes a JSON encoded grammar or Bison style grammar and outputs a JavaScript file capable of parsing the language described by that grammar. You can then use the generated script to parse inputs and accept, reject, or perform actions based on the input.

Installation

------------

Jison can be installed for [Node](http://nodejs.org) using [`npm`](http://github.com/isaacs/npm/)

Using npm:

    npm install jison -g

Usage from the command line

-----------------------

Clone the github repository for examples:

    git clone git://github.com/zaach/jison.git
cd jison/examples

Now you're ready to generate some parsers:

    jison calculator.jison

This will generate `calculator.js` in your current working directory. This file can be used to parse an input file, like so:

    echo "2^32 / 1024" > testcalc
code 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 zxg");

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:

```bash
make test
```

Projects using Jison

View them on the [wiki](https://github.com/zaach/jison/wiki/ProjectsUsingJison), or add your own.

Contributors

[Githubbers](http://github.com/zaach/jison/contributors)

Special thanks to Jarred Ligatti, Manuel E. Bermúdez

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1.346 jQuery 1.8.3

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1.348 js-yaml 3.1.0

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1.357 jsonpointer 1.1.0

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# JSON Pointer for nodejs

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

## Usage

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

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

## Testing

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

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

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AUTHORS

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The End

AUTHORS

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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1.367 kernel-ml 4.2.5 :1.el7.centos

1.367.1 Available under license :

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Version 2, June 1991

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ConferenceTV card

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for the initial saa7146 driver and its recent overhaul

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for his work on the initial Linux DVB driver

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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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for patching the cable card decoder driver

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for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>  
for the or51211 and or51132 frontend drivers, and  
for merging the nxt2002 and nxt2004 modules into a  
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a  
line to the DVB mailing list)

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/* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)
  * nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)
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  * 10/4/97 - began heavy inline documentation of the code. Corrected typos
  * and spelling mistakes.
  * 10/5/97 - added code to handle PHY interrupts, disable PHY on
  * loss of link, and correctly re-enable PHY when link is
  * re-established. (put back CFG_PHYIE)
  *
  * Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.
  *
  * R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997
  *
  * Linux driver for the IDT77201 NICStAR PCI ATM controller.
  * PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;
* see init_nicstar() for PHY initialization to change this. This driver
* expects the Linux ATM stack to support scatter-gather lists
* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

* Implementing minimal-copy of received data:
* IDT always receives data into a small buffer, then large buffers
* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.

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* M. Welsh, 6 July 1996
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1.372 libnl3_doc 3.2.21 :6.el7

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1.381 lodash 3.5.0

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1.382 lodash 3.9.3

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{
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   "version": "1.3.1",
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   "license": "MIT",
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      "functional",
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"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/)
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"repository": {
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    "*.map",
    "*.md",
    "*.txt",
    "lodash.js",
    "index.js",
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    "node_modules",
    "perf",
    "test",
    "vendor"
  ]
}
1.387 lodash 2.4.2

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1.388 lodash-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"

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 framework to work with node. 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
```

```
```

```
```

```
```

```
```

** installation

npm install log4js

** usage
Minimalist version:
```
```
var log4js = require('log4js');
var logger = log4js.getLogger();
logger.debug("Some debug messages");
```

By default, log4js outputs to stdout with the coloured layout (thanks to [masylum](http://github.com/masylum)), so for the above you would see:
```
```
[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):
```
```
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:
```
```
[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:
```
```
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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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 [masylum](http://github.com/masylum)), so for the above you would see:

```bash
[2010-01-17 11:43:37.987] [DEBUG] [default] - Some debug messages
```

See example.js for a full example, but here's a snippet (also in fromreadme.js):

```javascript
var log4js = require('log4js');
//console log is loaded by default, so you won't normally need to do this
//log4js.loadAppender('console');
log4js.loadAppender('file');
//log4js.addAppender(log4js.appenders.console());
log4js.addAppender(log4js.appenders.file('logs/cheese.log'), 'cheese');

var logger = log4js.getLogger('cheese');
logger.setLevel('ERROR');
logger.trace('Entering cheese testing');
logger.debug('Got cheese.');
logger.info('Cheese is Gouda.');
logger.warn('Cheese is quite smelly.');
logger.error('Cheese is too ripe!');
logger.fatal('Cheese was breeding ground for listeria.');
```
Output:
```bash
[2010-01-17 11:43:37.987] [ERROR] cheese - Cheese is too ripe!
[2010-01-17 11:43:37.990] [FATAL] cheese - Cheese was breeding ground for listeria.
```
```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
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### 1.393 log4js 0.6.22

#### 1.393.1 Available under license:

```
# log4js-node ![Build Status](https://secure.travis-ci.org/nomiddlename/log4js-node.png?branch=master)
```

This is a conversion of the [log4js](https://github.com/stritti/log4js) framework to work with [node](http://nodejs.org). I've mainly stripped out the browser-specific code and tidied up
some of the javascript.

Out of the box it supports the following features:

* coloured console logging
* replacement of node's console.log functions (optional)
* file appender, with log rolling based on file size
* SMTP appender
* GELF appender
* hook.io appender
* Loggly appender
* Logstash UDP appender
* multiprocess appender (useful when you've got worker processes)
* a logger for connect/express servers
* configurable log message layout/patterns
* different log levels for different log categories (make some parts of your app log as DEBUG, others only ERRORS, etc.)

NOTE: from log4js 0.5 onwards you'll need to explicitly enable replacement of node's console.log functions. Do this either by calling `log4js.replaceConsole()` or configuring with an object or json file like this:

```javascript
{ appenders: [ { type: "console" } ],
  replaceConsole: true
}
```

## installation

```javascript
npm install log4js
```

## usage

Minimalist version:

```javascript
var log4js = require('log4js');
var logger = log4js.getLogger();
logger.debug("Some debug messages");
```

By default, log4js outputs to stdout with the coloured layout (thanks to [masylum](http://github.com/masylum)), so for the above you would see:

```bash
[2010-01-17 11:43:37.987] [DEBUG] [default] - Some debug messages
```
See example.js for a full example, but here's a snippet (also in fromreadme.js):
```javascript
var log4js = require('log4js);
//console log is loaded by default, so you won't normally need to do this
//log4js.loadAppender('console');
log4js.loadAppender('file');
//log4js.addAppender(log4js.appenders.console());
log4js.addAppender(log4js.appenders.file('logs/cheese.log'), 'cheese');

var logger = log4js.getLogger('cheese');
logger.setLevel('ERROR');

logger.trace('Entering cheese testing');
logger.debug('Got cheese.');
logger.info('Cheese is Gouda.');
logger.warn('Cheese is quite smelly.');
logger.error('Cheese is too ripe!');
logger.fatal('Cheese was breeding ground for listeria.');
```

Output:
```
[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 ###
```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
1.395.1 Available under license :

# log4js-node ![Build Status](https://secure.travis-ci.org/nomiddlename/log4js-node.png?branch=master)

This is a conversion of the log4js[http://log4js.berlios.de/index.html] framework to work with node[http://nodejs.org]. I've mainly stripped out the browser-specific code and tidied up some of the javascript.

Out of the box it supports the following features:

* coloured console logging
* replacement of node's console.log functions (optional)
* file appender, with log rolling based on file size
* SMTP appender
* GELF appender
* hook.io appender
* multiprocess appender (useful when you've got worker processes)
* a logger for connect/express servers
* configurable log message layout/patterns
* different log levels for different log categories (make some parts of your app log as DEBUG, others only ERRORS, etc.)

NOTE: from log4js 0.5 onwards you'll need to explicitly enable replacement of node's console.log functions. Do this either by calling `log4js.replaceConsole()` or configuring with an object or json file like this:

```javascript
{
appenders: [
  { type: "console" }
],
replaceConsole: true
}
```  

## installation

npm install log4js

## usage

Minimalist version:

```javascript
var log4js = require('log4js');
var logger = log4js.getLogger();
logger.debug("Some debug messages");
```

By default, log4js outputs to stdout with the coloured layout (thanks to [masylum](http://github.com/masylum)), so for the above you would see:

```bash
[2010-01-17 11:43:37.987] [DEBUG] [default] - Some debug messages
```

See example.js for a full example, but here's a snippet (also in fromreadme.js):

```javascript
var log4js = require('log4js');
//console log is loaded by default, so you won't normally need to do this
//log4js.loadAppender('console');
log4js.loadAppender('file');
//log4js.addAppender(log4js.appenders.console());
log4js.addAppender(log4js.appenders.file('logs/cheese.log'), 'cheese');

var logger = log4js.getLogger('cheese');
logger.setLevel('ERROR');
logger.trace('Entering cheese testing');
```
logger.debug('Got cheese.');
logger.info('Cheese is Gouda.');
logger.warn('Cheese is quite smelly.);
logger.error('Cheese is too ripe!');
logger.fatal('Cheese was breeding ground for listeria.');
```
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' });

```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
```json

#### 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"
  }
  ]
}
```json

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

"author": "Itamar Kunik",
"url": "http://github.com/Fring/log4js-ain2"
"url": "http://github.com/Fring/log4js-ain2/issues"

1.397 lolex 1.1.0
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1.398 Iru-cache 2.6.4
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1.399 lru-cache 2.5.0

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Simple RFC 6838 media type parser

```sh
$ npm install media-typer
```

```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)`.

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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)

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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1.404 merge-descriptors 1.0.0

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1.406 method-override 1.0.2

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Lets you use HTTP verbs such as PUT or DELETE in places you normally can't.

Previously `connect.methodOverride()`.

```sh
## Install

```
$ npm install method-override
```

## API

**NOTE** It is very important that this module is used **before** any module that
needs to know the method of the request (for example, it _must_ be used prior to
the `csurf` module).
### methodOverride(key)

Create a new middleware function to override the `req.method` property with a new value. This value will be pulled from the `X-HTTP-Method-Override` header of the request. If this header is not present, then this module will look in the `req.body` object for a property name given by the `key` argument (and if found, will delete the property from `req.body`).

If the found method is supported by node.js core, then `req.method` will be set to this value, as if it has originally been that value. The previous `req.method` value will be stored in `req.originalMethod`.

#### key

This is the property to look for the overwritten method in the `req.body` object. This defaults to `"_method"`.

### Examples

```js
var bodyParser = require('body-parser')
var connect = require('connect')
var methodOverride = require('method-override')

app.use(bodyParser())
app.use(methodOverride())
```

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# 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

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```json
{
    "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"
]
}

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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"
  ]
}
```
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1.433 mkdirp 0.5.0

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1.442 mongodb 1.4.12

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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) {
            test.assertEquals(1, docs);
            collection.count(function(err, count) {
                test.assertEquals(1, count);
            });
            collection.find().toArray(function(err, results) {
                test.assertEquals(1, results.length);
                test.assertTrue(results[0].a === 2);
                // Let's close the db
                client.close();
            });
        });
    }

client.open(function(err, p_client) {
    client.collection('test_insert', test);
});
```
Data types
==========
To store and retrieve the non-JSON MongoDb primitives
([ObjectID](http://www.mongodb.org/display/DOCS/Object+IDs), Long, Binary,
[Timestamp](http://www.mongodb.org/display/DOCS/Timestamp+data+type),
[DBRef](http://www.mongodb.org/display/DOCS/Database+References#DatabaseReferences-DBRef), Code).

In particular, every document has a unique `_id` which can be almost any type, and by default a 12-byte ObjectID is created. ObjectIDs can be represented as 24-digit hexadecimal strings, but you must convert the string back into an ObjectID before you can use it in the database. For example:

```javascript
// Get the objectID type
var ObjectID = require('mongodb').ObjectID;

var idString = '4e4e1638c85e808431000003';
collection.findOne({_id: new ObjectID(idString)}, console.log)  // ok
collection.findOne({_id: idString}, console.log)  // wrong! callback gets undefined
```

Here are the constructors the non-Javascript BSON primitive types:

```javascript
// Fetch the library
var mongo = require('mongodb');
// Create new instances of BSON types
new mongo.Long(numberString)
new mongo.ObjectID(hexString)
new mongo.Timestamp()  // the actual unique number is generated on insert.
new mongo.DBRef(collectionName, id, dbName)
new mongo.Binary(buffer)  // takes a string or Buffer
new mongo.Code(code, [context])
new mongo.Symbol(string)
new mongo.MinKey()
new mongo.MaxKey()
new mongo.Double(number)// Force double storage
```

The C/C++ bson parser/serializer
--------------------------------

If you are running a version of this library has the C/C++ parser compiled, to enable the driver to use the C/C++ bson parser pass it the option native_parser:true like below

```javascript
```
// using native_parser:
var client = new Db('integration_tests_20',
    new Server("127.0.0.1", 27017),
    {native_parser:true});
```

The C++ parser uses the js objects both for serialization and deserialization.

GitHub information
===================

The source code is available at http://github.com/mongodb/node-mongodb-native.
You can either clone the repository or download a tarball of the latest release.

Once you have the source you can test the driver by running

    $ make test

in the main directory. You will need to have a mongo instance running on localhost for the integration tests to pass.

Examples
========

For examples look in the examples/ directory. You can execute the examples using node.

    $ cd examples
    $ node queries.js

GridStore
=========  

The GridStore class allows for storage of binary files in mongodb using the mongodb defined files and chunks collection definition.

For more information have a look at [Gridstore](https://github.com/mongodb/node-mongodb-native/blob/master/docs/gridfs.md)

Replicasets
============

For more information about how to connect to a replicaset have a look at [Replicasets](https://github.com/mongodb/node-mongodb-native/blob/master/docs/replicaset.md)

Primary Key Factories
====================

Defining your own primary key factory allows you to generate your own series of id's (this could f.ex be to use something like ISBN numbers). The generated the id needs to be a 12 byte long "string".
Simple example below

```javascript
// Custom factory (need to provide a 12 byte array);
CustomPKFactory = function() {}
CustomPKFactory.prototype = new Object();
CustomPKFactory.createPk = function() {
    return new ObjectID("aaaaaaaaaaaaa");
}

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("aaaaaaaaaaaaa")}, function(err, cursor) {
                    cursor.toArray(function(err, items) {
                        test.assertEquals(1, items.length);
                        // Let's close the db
                        p_client.close();
                    });
                });
            });
        });
    });
});
```
error_client.collection('test_strict_access_collection', function(err, collection) {
    test.assertNotNull(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

```
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
Other options of `find`:

* `sort('field1')` ascending by field1

* `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.
* `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, {});
nw.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
```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.
        });
});
```
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1.445 mongodb 1.3.18

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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](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

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## Live Examples


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```sh
$ npm install mongoose
```

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The current stable branch is [3.8.x](https://github.com/LearnBoost/mongoose/tree/3.8.x). New (unstable) development always occurs on the [master](https://github.com/LearnBoost/mongoose/tree/master) branch.

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Both `connect` and `createConnection` take a `mongodb://` URI, or the parameters `host, database, port, options`.
```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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* [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' }
});
```
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:

```js
    ```
```
```

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

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![Mongoose Example](https://runnable.com/external/styles/assets/runnablebtn.png)

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```
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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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    {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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- [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

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You can also `findOne`, `findById`, `update`, etc. For more details check out [the docs](http://mongoosejs.com/docs/queries.html).

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The same goes for removing them:

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## 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


### 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)
## 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)
* [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:

```javascript
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.

### 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:

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`:

```javascript
.pre(method, function firstPre (next, methodArg1, methodArg2) {
  // Mutate methodArg1
  next("altered-" + methodArg1.toString(), methodArg2);
})
```

// pre declaration is chainable
```javascript
.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:

```javascript
new Schema({
  broken: { type: Boolean }
}, asset : {
  name: String
  , type: String  // uh oh, it broke. asset will be interpreted as String
});
```

```javascript
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

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## Support
## 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

![Runnable](https://runnable.com/external/styles/assets/runnablebtn.png)

## 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');
```js
一旦连接，`open`事件被触发在`Connection`实例。如果你使用`mongoose.connect`，`Connection`是`mongoose.connection`。否则，`mongoose.createConnection`返回值是一个`Connection`。

**重要!** Mongoose 缓存所有命令直到它连接到数据库。这意味着你不需要等到它连接到 MongoDB 才能定义模型、运行查询等。

### 定义一个 Model

模型通过 `Schema` 接口来定义。
```js
var Schema = mongoose.Schema
, ObjectId = Schema.ObjectId;

var BlogPost = new Schema({
  author    : ObjectId
, title     : String
, body      : String
, date      : Date
});
```

除了定义你的数据结构和你存储的数据类型，一个 Schema 处理这些定义的:

* [Validators](http://mongoosejs.com/docs/validation.html) (async and sync)
* [Defaults](http://mongoosejs.com/docs/api.html#schematype_SchemaType-default)
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* [pseudo-JOINs](http://mongoosejs.com/docs/populate.html)

以下示例展示了这些功能的一些特点:
```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 }
```
// a setter
Comment.path('name').set(function (v) {
    return capitalize(v);
});

// middleware
Comment.pre('save', function (next) {
    notify(this.get('email'));
    next();
});

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

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Or just do it all at once

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We can then instantiate it, and save it:

```js
var instance = new MyModel();
instance.my.key = 'hello';
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});
```

Or we can find documents from the same collection

```js
MyModel.find({}, function (err, docs) {
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You can also `findOne`, `findById`, `update`, etc. For more details check out [the docs](http://mongoosejs.com/docs/queries.html).

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 , MyModel = conn.model('ModelName', schema)
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m.save(); // works
```

vs

```js
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### Embedded Documents

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```
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```

Where `Comments` is a `Schema` we created. This means that creating embedded documents is as simple as:

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 if (!err) console.log('Success!');
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```
The same goes for removing them:

```js
BlogPost.findById(myId, function (err, post) {
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    post.save(function (err) {
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```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)`
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    // 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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1.455 morgan 1.2.2

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# 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.

```text
:remote-addr - :remote-user [:date] "":method :url HTTP/:http-version" :status :res[content-length] "":referrer" "":user-
agent"
```

##### common

Standard Apache common log output.

```text
```

##### 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.

```text
```

##### short

Shorter than default, also including response time.
```tagalog
The minimal output.

### 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:

```javascript
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


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1.457 morgan 1.5.3

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1.459 morgan 1.5.1

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# ms.js

Ever find yourself doing math in your head or writing `1000 * 60 * 60 …`? Don't want to add obstrusive `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>
```

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```js
ms('1d') // 86400000
ms('10h') // 36000000
ms('2h') // 7200000
ms('1m') // 60000
ms('5s') // 5000
ms('100') // 100
```
- 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.

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**1.470 multiparty 3.3.2**

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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
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```json
{
  "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"
  }
}
```
1.475 mz 1.3.0

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# MZ - Modernize node.js

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.

```
```
```

Then prefix the relevant `require()`'s with `mz/`:

```
```
```

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).

```
```
```javascript
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`

```javascript
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

1.476 nan 1.5.3

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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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```json
{
  "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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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation
=======================================================================

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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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1.578 nodejs_ArtisticLicense2.0 0.10.32 :1.el7

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1.582 nomnom 1.6.2

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1.583 nopt 3.0.1

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1.584 npm 1.3.6 :5.el7

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1.597 once 1.3.1

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1.599 options 0.0.6
1.599.1 Available under license :
# options.js #

A very light-weight in-code option parsers for node.js.

## Usage ##

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

// Create an Options object
function foo(options) {
    var default_options = {
        foo : "bar"
    };

    // Create an option object with default value
    var opts = new Options(default_options);

    // Merge options
    opts = opts.merge(options);

    // Reset to default value
    opts.reset();

    // Copy selected attributes out
    var seled_att = opts.copy("foo");

    // Read json options from a file.
    opts.read("options.file"); // Sync
    opts.read("options.file", function(err){ // Async
        if(err){ // If error occurs
            console.log("File error.");
        }else{
            // No error
        }
    });

    // Attributes defined or not
    opts.isDefinedAndNonNull("foobar");
    opts.isDefined("foobar");
}

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1.600 os-monitor 0.1.5

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```json
{
   "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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1.603 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.

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

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1.606 path-to-regexp 0.1.3
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# 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');
```
- **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.

```
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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### 1.607 path-to-regexp 0.1.2

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# 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');
```

```javascript
var pathToRegexp = require('path-to-regexp');
```
```javascript
var keys = [];
var exp = pathToRegexp('/foo/:bar', keys);
//keys = ['bar']
//exp = /^/fooV/(?:([^/]+))?$/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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"author": "Charlie Robbins <charlie.robbins@gmail.com>",
"url": "http://github.com/indexzero/node-pkginfo.git"

1.612 policyfile 0.0.4
1.612.1 Available under license:
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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
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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)

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.

```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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### 1.620 proxy-addr 1.0.6

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1.624 puppet 3.7.4 :1.el7

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    # 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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1.629 python-lxml_GPLv2 3.2.1 :4.el7

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1.630 python-lxml_PSFv2.x 3.2.1 :4.el7

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (see http://www.digico.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit
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1.631 python-markdown 2.4.1 :1.el7

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1.632 python-pip 1.3.1 :4.el7
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

1.634 python-prettytable 0.7.2 :1.el7

1.634.1 Available under license:

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1.635 python-pygments GPLv3 1.4 :9.el7

1.635.1 Available under license:

(lp1
(ccopy_reg
_reconstructor
p2
(cpygments.token
__TokenType
p3
c__builtin__
tuple
p4
(S'Text'
p5
ttRp6
(dp7
S'subtypes'
p8
c__builtin__
set
p9
((lp10
g2
g3
g4
g5
S'Symbol'
p11
 ttRp12
(dp13
g8
g9
((ltrp14
s'S'parent')
Open Source Used In Virtual Media Packager 2.7

1381
Open Source Used in Virtual Media Packager 2.7
Open Source Used In Virtual Media Packager 2.7
Open Source Used In Virtual Media Packager 2.7
New ports collection makefile for: python25

# Date created:         3 July 2003

# Whom:                 Hye-Shik Chang <perky@FreeBSD.org>

Open Source Used In Virtual Media Packager 2.7
VPYTHON_MASTER_SITES
p412
tp413
atg138
V}
tp414
atg6
V\u000a

VMASTER_SITE_SUBDIR
p416
tp417
atg353
V=
tp418
atg6
V

tp419
atg138
VS{
p420
tp421
atg100

VPYTHON_MASTER_SITE_SUBDIR
p422
tp423
atg138
V}
tp424
atg6
V\u000a

VDISTFILES
p426
tp427
atg353
V=
tp428
atg6
V

tp429
atg138
VS{
p430
tp431
atg100
Open Source Used In Virtual Media Packager 2.7

Object-oriented programming

```
VDIST_SUBDIR = python
WWRKSRCH = python
```
V

V$}

V/portbld.static

V=000a

V=000a

V=000a

V=000a
VGNU_CONFIGURE

VCONFUURE_TARGET

VMACHINE_ARCH
a(g138
VS{
p515
tp516
a(g100
VOSREL
p517
tp518
a(g138
V}
tp519
a(g6
V/u000a
tp520
a(g100
VCONFIGURE_SCRIPT
p521
tp522
a(g353
V=
tp523
a(g6
V
tp524
a(g6
V../configure
p525
tp526
a(g6
V
tp527
a(g24
V# must be relative\u000a
p528
tp529
a(g100
VCONFIGURE_ENV
p530
tp531
a(g353
V=
tp532
a(g6
V
tp533
a(g100
VOPT
p534
tp535
a(g353
V=

tp536
a(g255
V"${CFLAGS}""
p537
tp538
a(g6
V

tp539
a(g100
VSVNVERSION
p540
tp541
a(g353
V=

tp542
a(g255
V"echo freebsd"
p543
tp544
a(g6
V\u000a

tp545
a(g100
VMAKE_ENV
p546
tp547
a(g353
V=

tp548
a(g6
V

tp549
a(g100
VVSPATH
p550
tp551
a(g353
V=

tp552
a(g255
V"${PYTHON_WRKSRC}""
p553
tp554
a(g6
V\u000a
Open Source Used In Virtual Media Packager 2.7

1416

tp555
atg100

VINSTALLS_SHLIB
p556
tp557
atg353
V=
tp558
atg6
V
tp559
atg6
Vyes
p560
tp561
atg6
V\u000a
p562
atg100

VINSTALL_TARGET
p563
tp564
atg353
V=
tp565
atg6
V
tp566
atg6
Valtinstall
p567
tp568
atg6
V\u000a
p569
atg100
VMAN1
p570
tp571
atg353
V=
tp572
atg6
V
p573
tp574
atg138
V${
VPYTHON_NO_DEPENDS

VPYTHON_WRK_SRC

V/$

V/portbld.shared
Open Source Used In Virtual Media Packager 2.7

1419
V/pkg.plist
p639
tp640
a(g6
V\u000a
tp641
a(g100
VPLIST_SUB
p642
tp643
a(g353
V=
tp644
a(g6
V
tp645
a(g100
VPYVER
p646
tp647
a(g353
V=
tp648
a(g138
VS{
 p649
 tp650
 a(g100
VPYTHON_VERSION
 p651
 tp652
 a(g212
 V:
 tp653
 a(g100
VS
 tp654
 a(g212
V/python/
 p655
 tp656
 a(g138
 V}
 tp657
 a(g6
 V
 tp658
Open Source Used In Virtual Media Packager 2.7

1421
Open Source Used In Virtual Media Packager 2.7

1422
a[g138
V]

tp701
a[g6
V/share/
p702
tp703
a[g138
V{

tp704
tp705
a[g100
VPYTHON_VERSION


tp706
tp707
a[g138
V]

tp708
a[g6
V\u000a\u000a
p709
tp710
a[g100
VBIN_SCRIPTS


tp711
tp712
a[g353
V=

tp713
a[g6
V
tp714
a[g6
Vidle


tp715
tp716
a[g6
V

tp717
a[g6
Vpydoc


tp718
tp719
a[g6
V

tp720
a[g6
Vpython
$\texttt{V's.smtpd.smtpd${PYTHON\_VER}$,'}$

$p746$

$a(g6$

$V$

$tp745$

$a(g6$

$V$

$tp746$

$a(g281$

$V\texttt{\textbackslash\textbackslash u005c\textbackslash u000a}$

$p749$

$a(g6$

$V$

$tp751$

$a(g6$

$V$

$tp752$

$a(g6$

$V$

$tp753$

$a(g6$

$V$

$tp754$

$a(g6$

$V$

$tp755$

$a(g6$

$V$

$tp756$

$a(g281$

$V\texttt{\textbackslash\textbackslash u005c\textbackslash u000a}$

$p757$

$a(g6$

$V\texttt{\textbackslash\textbackslash u005c\textbackslash u000a}$

$p759$

$a(g100$

$\texttt{VOPTIONS}$

$p761$

$a(g353$

$V=$

$tp762$

$a(g6$

$V$
V
p764
atg6
VTHREADS
p765
tp766
atg6
V
p767
atg255
V"Enable thread support"
p768
tp769
atg6
V
p770
atg6
Von
p771
tp772
atg6
V
p773
atg262
V\u0005\u000a
p774
tp775
atg6
V
p776
tp777
atg6
VHUGE_STACK_SIZE
p778
tp779
atg6
V
p780
atg255
V"Use a larger thread stack"
p781
tp782
atg6
V
p783
atg6
Voff
p784
"Use UCS4 for unicode support"
Use python's internal malloc

Enable IPv6 support
VFPECTL

"Enable floating point exception handling"

#include <bsd.port.pre.mk>

if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}

VMLINKS

Open Source Used In Virtual Media Packager 2.7

1430
a(g6
V\u0000a
tp871
a(g27
V.else\u0000a
p872
tp873
a(g6
V
tp874
a(g6
VPLIST_SUB+

tp875
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\u0000a
tp884
a(g27
V.endif\u0000a
p885
tp886
a(g6
V\u0000a
tp887
a(g24
V# workaround for a bug in base curses.h\u0000a
p888
tp889
a(g6
V
tp890
VCFLAGS+

V= 

V-D__wchar_t

Vw_char_t

V


V-if !defined(WITHOUT_THREADS)

VCONFIGURE_ARGS+

V--with-threads

V\u000a
VPTHREAD_CFLAGS

if defined(WITHOUT_HUGE_STACK_SIZE)

V\${VCFLAGS+

V

V

V-DTHREAD_STACK_SIZE

V-PTHREAD_CFLAGS

V

V

V

V
a(g353
V=
tp933
a(g6
V0x20000
p934
tp935
a(g6
V\u000a
p936
a(g27
V.else\u000a
p937
tp938
a(g6
V
tp939
a(g6
V
V.
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
p950
a(g27
V.endif # defined(WITHOUT_HUGE_STACK_SIZE)\u000a
p951
tp952
a(g6
V
VCONFIGURE_ENV+

V=

V

V

V=VCONFIGURE_ARGS+

V"$[PTHREAD_LIBS] $[LDFLAGS]"

V

V

V

V

V

V--without-threads

V

V
V\u000a
a\g27
V.if defined(LDFLAGS)\u000a
p975
tp976
a\g6
V
tp977
a\g6
VCONFIGURE_ENV+

p978


a\g979
a\g353
V=
tp980
a\g6
V
p981
tp982
a\g100
VLDFLAGS
p983

tp984
a\g353
V=
tp985
a\g255
V"${LDFLAGS}"'
p986

tp987
a\g6
V\u000a

tp988
a\g27
V.endif # defined(LDFLAGS)\u000a
p989
tp990
a\g6
V
tp991
a\g27
V.endif # !defined(WITHOUT_THREADS)\u000a
p992

tp993
a\g6
V\u000a

tp994
V.if !defined(WITHOUT_UCS4) && !defined(WITH_UCS2)
V_CONFIGURE_ARGS+=
V--enable-unicode
V
V_CONFIGURE_ARGS+=
V.if defined(WITHOUT_PYMALLOC)
V_CONFIGURE_ARGS+=
V.endif
V_config
V
V_CONFIGURE_ARGS+=
Open Source Used In Virtual Media Packager 2.7

1438
p1035
p1036
atg6
V\u000a
p1037
atg27
V.else\u000a
p1038
p1039
atg6
V
tp1040
atg6
VPLIST_SUB+

p1041
p1042
atg353
V=

p1043
atg6
V

p1044
atg100
VX86_ONLY

p1045
p1046
atg353
V=

p1047
atg255
V"@comment "

p1048
p1049
atg6
V\u000a

p1050
atg27
V.endif\u000a

p1051
p1052
atg6
V

p1053
atg27
V.if $\{ARCH\} == \text{amd64} \parallel $\{ARCH\} == \text{ia64} \parallel $\{ARCH\} == \text{sparc64} \parallel $\{ARCH\} == \text{alpha}\u000a

p1054
p1055
atg6
V
tp1056
a\(g6\)
VPLIST_SUB+
tp1057
tp1058
a\(g353\)
V=
tp1059
a\(g6\)
V
p1060
tp1061
a\(g100\)
V32BIT_ONLY
p1062
tp1063
a\(g353\)
V=
tp1064
a\(g255\)
V"@comment "
tp1065
tp1066
a\(g6\)
V\u000a
tp1067
a\(g27\)
V.else\u000a
p1068
tp1069
a\(g6\)
V
tp1070
a\(g6\)
VPLIST_SUB+
tp1071
tp1072
a\(g353\)
V=
tp1073
a\(g6\)
V
p1074
tp1075
a\(g100\)
V32BIT_ONLY
p1076
if ${ARCH} == sparc64

VCFLAGS+=

V-DPYTHON_DEFAULT_RECURSION_LIMIT
if `exists(/usr/bin/ypcat)` # the world with NO_NIS
V
VLIST_SUB+
V
V"@comment "
V
V
V
V
V
V
VPLIST_SUB+
p1118
tp1119
atg353
V=
tp1120
atg6
V
tp1121
atg100
VNO_NIS
p1122
tp1123
atg353
V=
tp1124
atg255
V="

VNO_NIS

p1125
tp1126
atg6
Vu000a

tp1127
atg27
V.endi0u000a

p1128
tp1129
atg6
Vu000a

tp1130
atg27
V.if !defined(WITHOUT_IPV6)u000a

p1131
tp1132
atg6
V
tp1133
atg6
VCONFIGURE_ARGS+

p1134
tp1135
atg353
V=
tp1136
atg6
V
tp1137
atg6
V--enable-ipv6
p1138
tp1139
atg6
V\u000a
p1140
atg27
V.else\u000a
p1141
tp1142
atg6
V
p1143
atg6
VCONFIGURE_ARGS+
p1144
atg353
V=
p1146
atg6
p1147
atg6
V--disable-ipv6
p1148
atg6
V\u000a
p1150
atg27
V.endif\u000a
p1151
atg6
V\u000a
p1153
atg27
V.if defined(WITH_FPECTL)\u000a
p1154
atg5
atg6
V
p1156
atg6
VCONFIGURE_ARGS+
p1157
p1158
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
Open Source Used In Virtual Media Packager 2.7

VPLATFORMS

Vplat-freebsd4

Vplat-freebsd6

Vplat-freebsd7

V.pre-patch:

V
V'ls,.^"$.","{PREFIX}/bin/{PYTHON_VERSION},'
p1284
tp1285
atg6
V
tp1286
atg262
V\u005c\u000a
p1287
tp1288
atg6
V
p1289
tp1290
atg138
V$

p1291

atg100
VPATCH_WRKSRCP1293
tp1294
atg138
V}

V/Tools/scripts/idlep1296
tp1297
atg6
V
tp1298
atg6
V>

V>

atg6
V

atg138
V$

V

WWRKDIR
P1301
TP1302
atg100
VWRKDIR
P1303
TP1304
atg138
V}
Open Source Used In Virtual Media Packager 2.7
Open Source Used In Virtual Media Packager 2.7

1454
V/Lib/pydoc.py
p1370
tp1371
a(g6
V\u0000a
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\u0005c\u0000a
p1383
tp1384
a(g6
V
p1385
tp1386
a(g281
V's|^\( *prefixes = .*\u0005c)\u0005cj$$|\u0005c1, "${X11BASE}" [\i]g'
p1387
tp1388
a(g6
V
tp1389
a(g262
V\u0005c\u0000a
p1390
tp1391
a(g6
V
p1392
tp1393
a[g138
VS{p1394
tp1395
a[g100
VPATCH_WRKSRC
p1396
tp1397
a[g138
V}
tp1398
a[g6
V/Lib/site.py
p1399
tp1400
a[g6
V\u0000a
p1401
tp1402
a[g138
VS{p1403
tp1404
a[g100
VREINPLACE_CMD
p1405
tp1406
a[g138
V}
tp1407
a[g6
V
tp1408
a[g6
V-e
p1409
tp1410
a[g6
V
tp1411
a[g262
V\u0005c\u0000a
p1412
tp1413
a[g6
a(g6
V
tp1437
a(g6
V-e
p1438
tp1439
a(g6
V
tp1440
a(g262
V\u000c\u000a
p1441
tp1442
a(g6
V
p1443
tp1444
a(g281
V's|*
\u000a
p1445
tp1446
a(g6
V
tp1447
a(g262
V\u000c\u000a
p1448
tp1449
a(g6
V
p1450
tp1451
a(g138
VS{
p1452
tp1453
a(g100
VPATCH_WRKSRC
p1454
tp1455
a(g138
V}
tp1456
a(g6
V/Makefile.pre.in
p1457
tp1458
a(g138
V)
tp1481
a(g6
V/Misc/python-config.in
p1482
tp1483
a(g6
V
tp1484
a(g6
V>
tp1485
a(g6
V
tp1486
a(g138
V${
VWRKDIR
p1487
tp1488
a(g100
VWRKDIR
p1489
tp1490
a(g138
V}
tp1491
a(g6
V/
tp1492
a(g138
V${
VPYTHON_VERSION
p1493
tp1494
a(g100
VPYTHON_VERSION
p1495
tp1496
a(g138
V}
tp1497
a(g6
V-config
p1498
tp1499
a(g6
Vu0000a
p1500
a(g6
V/Misc/python-config.in
p1523
tip1524
a(g6
V
tip1525
a(g6
V>
tip1526
a(g6
V
tip1527
a(g138
VS{
p1528
tip1529
a(g100
VWRKDIR
p1530
tip1531
a(g138
V}
tip1532
a(g6
V/
tip1533
a(g138
VS{
p1534
tip1535
a(g100
VPYTHON_VERSION
p1536
tip1537
a(g212
V:
tip1538
a(g100
VS
tip1539
a(g212
V/thon/thon-shared/
p1540
tip1541
a(g138
V}
tip1542
if defined(WITH_FPECTL) && ${ARCH} == i386
VMKDIR
VMWRKSRC
/Modules
a(g138
VS{
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
VS{
p1577
tp1578
a(g100
VWRKSRC
p1579
tp1580
a(g138
V}
tp1581
a(g6
V/Modules/Setup.dist
p1582
tp1583
a(g6
Vu000a
tp1584
a(g27
V.endifvu000a
post-configure:

VSHARED_WRK_SRC
V
V
V
VS\\{p1646
tp1647
agt100
VPYTHON_WRKSRC
p1648
tp1649
agt138
V\\}
tp1650
agt6
V/Lib
p1651
tp1652
agt6
V
tp1653
agt138
VS\\{p1654
tp1655
agt100
VWRKSR\C
p1656
tp1657
agt138
V\\}
tp1658
agt6
V/Lib
p1659
tp1660
agt6
V\\w0000a
p1661
tp1662
agt138
VS\\{p1663
tp1664
agt100
VSED
p1665
tp1666
agt138
V\\}
tp1667
agt6
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1471
V/Makefile

pre-build:

Vcd
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1475
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1476

Vlib

V$ {p

V$ {p

V

V

V

V

V-f

p1837

p1838
VPython

$PYTHON\_VERSION$

V:

Vthon/thon-shared/

V}

V\u000a\u000a

V.pre-su-install:

V.for platform in \${PLATFORMS}\u000a

V
```
for file in IN.py regen\u000a```

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1480
tp1943
a(g6
V
tp1944
a(g6
V|
tp1945
a(g6
V
tp1946
a(g138
VS{
p1947
tp1948
a(g100
VAWK
p1949
tp1950
a(g138
V}
tp1951
a(g6
V
tp1952
a(g281
V\[ print $$0; } \}\u0005c\u0005a/\u0005c/LIBDIR.\*\u0005c.py$$/ && !/\u0005c/bad/ { print $$0 "o"; print $$0 "c"; }\]
)p1953
tp1954
a(g6
V
tp1955
a(g6
VS
ntp1956
a(g6
V
tp1957
a(g138
VS{
p1958
tp1959
a(g100
VPLIST
p1960
tp1961
a(g138
V}
tp1962
V@# if openssl 0.9.8 is detected, _sha{256,512} module won't be installed

V

V-f

V/without_ownsha
V
p2024
tp2025
at(g138
VS{
p2026
tp2027
at(g100
VCAT
p2028
tp2029
at(g138
V}
tp2030
at(g6
V
tp2031
at(g138
VS{
p2032
tp2033
at(g100
VPLIST
p2034
tp2035
at(g138
V}
tp2036
at(g6
V.tmp
p2037
tp2038
at(g6
V
tp2039
at(g6
V>
.tp2040
at(g6
V
tp2041
at(g138
VS{
p2042
tp2043
at(g100
VPLIST
p2044
post-install:

@# install config providers

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1487
```bash
VINSTALL_SCRIPT
VWRKDIR
VPYTHON_VERSION
```
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
VS{
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
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1493
V/config
p2238
tp2239
a(g6
V\u0000a
p2240
tp2241
a(g138
V$

VINSTALL_PROGRAM
p2244
tp2245
a(g138
V}

VSHARED_WRKSR
p2254
tp2255
a(g138
V$

VS$
VPython\_version
p2260
tp2261
atg212
V:
tp2262
atg100
VS
tp2263
atg212
V/thon/thon-shared/
p2264
tp2265
atg138
V}
tp2266
atg6
V
tp2267
atg262
V/u005c\u000a
p2268
tp2269
atg6
V
p2270
tp2271
atg138
VS{
p2272
tp2273
atg100
VPREFIX
p2274
tp2275
atg138
V}
tp2276
atg6
V/bin
p2277
tp2278
atg6
V/u000a\u000a
p2279
tp2280
atg24
V@# additional files installing by ports\u000a
p2281
tp2282
at(g6
V
tp2283
at(g138
V$\$

{p2284
tp2285
at(g100
VINSTALL_SCRIPT

{p2286
tp2287
at(g138
V}

{tp2288
at(g6
V

{tp2289
at(g138
V$

{p2290
tp2291
at(g100
VWRKDIR

{p2292
tp2293
at(g138
V}

{tp2294
at(g6
V/pydoc2.5

{p2295
tp2296
at(g6
V

{tp2297
at(g138
V$

{p2298
tp2299
at(g100
VWRKDIR

{p2300

{tp2301
at(g138
V}

{tp2302
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1499

The text appears to be a list of file paths or commands, possibly related to a virtual media packager. However, the content is not clearly legible due to the formatting and characters used. It might be a script or a configuration file. Without clearer visibility, it's challenging to provide a meaningful interpretation.
VMKDIR
VMANPREFIX
V/man/man1
if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}:
    for f in VBIN_SCRIPTS:
        ...
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1506
V
p2471
tp2472
ag6
V
tp2473
ag138
Vdone
p2474
tp2475
ag6
V\u000a
tp2476
ag27
V.endif\u000a
p2477
tp2478
ag6
V\u000a
tp2479
ag27
V.if !defined(NOPORTDOCS)\u000a
p2480
tp2481
ag6
V
tp2482
ag6
V@
tp2483
ag138
V${
pp2484
tp2485
ag100
VMKDIR
p2486
tp2487
ag138
V}
tp2488
ag6
V
tp2489
ag138
V${
p2490
tp2491
ag100
Open Source Used In Virtual Media Packager 2.7
1510
VS{ p2552 tp2553 a[g100 VMKDIR p2554 tp2555 a[g138 V} tp2556 a[g6 V tp2557 a[g138 VS{ p2558 tp2559 a[g100 VDEMODIR p2560 tp2561 a[g138 V} tp2562 a[g6 V\u000a tp2563 a[g6 V@cd tp2565 tp2566 a[g6 V tp2567 a[g138 VS{ p2568 tp2569 a[g100 VPYTHON_WRKSRC p2570 tp2571 a[g138 V} tp2572 a[g6 V/Demo;
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1513
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1.636 python-requests_LGPLv2.1 1.1.0 :8.el7

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1516
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schema/trex.py

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

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1.643 qs 0.6.5

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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@learnboost.com
```

## Testing

Install dev dependencies:

```
$ npm install -d
```

and execute:

```
$ make test
```

browser:

```
$ open test/browser/index.html
```

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## Installation
## Install

```
$ npm install qs
```

### Examples

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

qs.parse('user[name][first]=Tobi&user[email]=tobi@learnboost.com');
// => { user: { name: { first: 'Tobi' }, email: 'tobi@learnboost.com' } }

qs.stringify({ user: { name: 'Tobi', email: 'tobi@learnboost.com' }})
// => user[name]=Tobi&user[email]=tobi%40learnboost.com
```

### Testing

Install dev dependencies:

```
$ npm install -d
```

and execute:

```
$ make test
```

browser:

```
$ open test/browser/index.html
```

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1.646 qs 0.6.6

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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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# Raw Body

`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

```javascript
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)
  })
})
```
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).
  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)

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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1.659 re2 20131024 :1.el7

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1.660 read 1.0.5

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1.661 readable-stream 1.1.13

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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 `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);
    });
```
This will display:

```javascript
client.quit();
```

```javascript
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 0/9/2.287
```

*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:

```javascript
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:

```javascript
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:

```javascript
client.set("some key", "some val");
client.set(['some other key', "some val"]);
```

If the key is missing, reply will be null (probably):

```javascript
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

    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` is 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>´
});
```
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:

```javascript
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:

```javascript
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:

```javascript
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.

```javascript
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;
}
```

## 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());
        });
    });
```
* **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
// 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.

```js
> 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
```
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.

```
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:

```javascript
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:
```
```
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.

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- [Tj Holowaychuk aka `visionmedia`](https://github.com/visionmedia)
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Thanks.

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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
```
```javascript
// 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 10/91/36.072
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:

```javascript
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:

```javascript
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:

```javascript
client.set("some key", "some val");
client.set(["some other key", "some val"]);
```

If the key is missing, reply will be null (probably):

```javascript
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

---

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`client` will emit some events about the state of the connection to the Redis server.

### "ready"

`client` will emit `ready` when 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 option 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 into 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`.
`client` will emit `idle` when there are no outstanding commands that are awaiting a response.

```js
### "idle"
```

## 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`. 

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1672
## 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:

```javascript
client.hmset("hosts", "mjr", "1", "another", "23", "home", "1234");
client.hgetall("hosts", function (err, obj) {
    console.dir(obj);
});
```

Output:

```javascript
{ mjr: '1', another: '23', home: '1234' }
```

### client.hmset(hash, obj, [callback])

Multiple values in a hash can be set by supplying an object:

```javascript
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:

```javascript
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:

```javascript
```

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) {
```
```javascript
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:

```javascript
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.

```javascript
> 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:

```javascript
```
```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.

```javascript
```
```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
  });
});
```n```

## 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.

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Thanks.

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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
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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:

```
node.js:50
    throw e;
^  
Error: ECONNREFUSED, Connection refused
    at IOWatcher.callback (net:870:22)
```
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 `<Buffer 4f 4b>`
});

client.end();
```

`createClient()` returns a `RedisClient` object that is named `client` in all of the examples here.

```js
## 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`.

```js
## 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.

```js
## 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
```

/*
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:

```javascript
client.hmset("hosts", "mjr", "1", "another", "23", "home", "1234");
client.hgetall("hosts", function (err, obj) {
    console.dir(obj);
});
```

Output:

```javascript
{ mjr: '1', another: '23', home: '1234' }
```

### client.hmset(hash, obj, [callback])

Multiple values in a hash can be set by supplying an object:

```javascript
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:

```javascript
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()`.

```
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")
```
### 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
define(dependencies, use) { 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 }); ```
```javascript
// 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:

```javascript
```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:

```javascript
```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.

```plaintext
> 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:

```javascript
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.

```javascript
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:

```javascript
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.

- [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)
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- [Dave Peticolas aka `jdavisp3`](https://github.com/jdavisp3)
Thanks.

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1.670 reduce-component 1.0.1

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1.671 reflect 0.0.7

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![Reflect.js](https://github.com/zaach/reflect.js/raw/master/reflectjs.png "Reflect.js")

Reflect.js is a JavaScript (ES3 compatible) implementation of [Mozilla's Parser API](https://developer.mozilla.org/en/SpiderMonkey/Parser_API). It does not currently support some of Mozilla's extensions, such as generators, list comprehensions, `for each`, E4X, etc. but may eventually support ones that are, or become Harmony proposals. Builders are also supported.

Parsing really large files can be slow, for reasons [articulated](http://www.andychu.net/ecmascript/RegExp-Enhancements.html) by Andy Chu.

Download

==========

You can download a minified-standalone version of reflect.js to embed in web pages [here](https://raw.githubusercontent.com/zaach/reflect.js/master/standalone/reflect.js).

Install

==========

Reflect.js is available as a CommonJS module for Node.js. Simply install it with npm:

```sh
npm install reflect
```
Use
======

```javascript
var Reflect = require('reflect');

var ast = Reflect.parse("var a = 4 + 7");

console.log(Reflect.stringify(ast, "  "));
```

Refer to [Mozilla's docs](https://developer.mozilla.org/en/SpiderMonkey/Parser_API) for details on the AST interface.

Builders
=======

The optional [builder](https://developer.mozilla.org/en/SpiderMonkey/Parser_API#Builder_objects) parameter to Reflect.parse() makes it possible to construct user-specified data from the parser, rather than the default Node objects.

The reflect.js module exports the [default builder](https://raw.github.com/zaach/reflect.js/master/lib/nodes.js) so you can redefine only the node constructors you care about and leave the rest default.

```javascript
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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1.672 regexp-clone 0.0.1

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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"

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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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1.694 rimraf 2.3.2

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1.695 rndm 1.1.0

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```json
{
"name": "rndm",
"description": "random string generator",
"version": "1.1.0",
"author": {
"name": "Jonathan Ong",
"email": "me@jongleberry.com",
"url": "http://jongleberry.com",
"twitter": "https://twitter.com/jongleberry"
},
"license": "MIT",
"devDependencies": {
"mocha": "2",
"istanbul": "0"
},
"repository": "crypto-utils/rndm",
"scripts": {
"test": "mocha",
"test-cov": "istanbul cover node_modules/mocha/bin/_mocha -- --reporter dot",
"test-travis": "istanbul cover node_modules/mocha/bin/_mocha --report lcovonly -- --reporter dot"
},
"keywords": [
"random",
"number",
"generator",
"uid",
"id"
],
"files": [
"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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1.703 sax 0.6.1

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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

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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 + '/');
  }

  send(req, req.url).pipe(res);
}).listen(3000);
```
// 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__`:

```bash
$ DEBUG=send node app
```

## Running tests

```bash
$ npm install
$ make test
```

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# send

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## Installation

$ npm install send

## Examples

Small:

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

var app = http.createServer(function(req, res){
  send(req, req.url).pipe(res);
}).listen(3000);
```

Serving from a root directory with custom error-handling:

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

var app = http.createServer(function(req, res){
  // your custom error-handling logic:
  function error(err) {
    res.statusCode = err.status || 500;
    res.end(err.message);
  }

  // your custom directory handling logic:
  function redirect() {
    res.statusCode = 301;
    res.setHeader('Location', req.url + '/');
    res.end('Redirecting to ' + req.url + '/');
  }

  // transfer arbitrary files from within
  // /www/example.com/public/*
```
send(req, url.parse(req.url).pathname, {root: '/www/example.com/public'})
.on('error', error)
.on('directory', redirect)
.pipe(res);
}).listen(3000);
```

```

## API

### Options

#### etag

Enable or disable etag generation, defaults to true.

#### hidden

Enable or disable transfer of hidden files, defaults to false.

#### index

By default send supports "index.html" files, to disable this set `false` or to supply a new index pass a string or an array in preferred order.

#### maxage

Provide a max-age in milliseconds for http caching, defaults to 0.

#### root

Serve files relative to `path`.

### Events

- `error` an error occurred `(err)`
- `directory` a directory was requested
- `file` a file was requested `(path, stat)`
- `stream` file streaming has started `(stream)`
- `end` streaming has completed

#### .etag(bool)

Enable or disable etag generation, defaults to true.

#### .root(dir)

Serve files relative to `path`. Aliased as `.from(dir)`.
### .index(paths)

By default send supports "index.html" files, to disable this
invoke `.index(false)` or to supply a new index pass a string
or an array in preferred order.

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```bash
$ DEBUG=send node app
```

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$ npm install
$ make test
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```text
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```

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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`.

```javascript
```

### 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);
});

```javascript
## To begin

1. Install it:

    ```bash
    $ npm install should --save-dev
    ```

2. Require it and use:

    ```javascript
    var should = require('should');
    
    (5).should.be.exactly(5).and.be.a.Number;
    ```

```javascript
## 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
    ```
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:

```bash
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.deepEqual(actual, expected, [message]) // should(actual).eql(expected, [message])
assert.notEqual(actual, expected, [message]) // should(actual).not.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`

---

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1789
### .true

Assert if chained object `=== true`:

```javascript
true.should.be.true;
'1'.should.not.be.true;
```

### .false

Assert if chained object `=== false`:

```javascript
false.should.be.false;
(0).should.not.be.false;
```

### .eql(otherValue)

Assert if chained object is *equal* to `otherValue`. The object is compared by its actual content, not just reference equality.

```javascript
({ foo: 'bar' }).should.eql({ foo: 'bar' });
[1,2,3].should.eql([1,2,3]);
// see next example it is correct, even if it is different types, but actual content the same
[1, 2, 3].should.eql({ '0': 1, '1': 2, '2': 3 });
```

### .equal(otherValue) and .exactly(otherValue)

Assert if chained object is strictly equal to `otherValue` (using `===` - no type conversion for primitive types and reference equivalence for reference types).

```javascript
(4).should.equal(4);
'test'.should.equal('test');
[1,2,3].should.not.equal([1,2,3]);
(4).should.be.exactly(4);
```

### .startsWith(str)

Assert that a string starts with `str`.

```javascript
'foobar'.should.startWith('foo');
```
'foobar'.should.not.startsWith('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; })();
args.should.be.arguments;
[] .should.not.be.arguments;
```


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.haveOwnProperty('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: { d: 10 }, c: 11 }, a: { b: 10, c: 11 } }).should.containDeep({ a: { b: { d: 10 }, 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. Everything 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)`:
```
```
```
```
```

Given: Array, otherValue: regexp - assert each value match to regexp.
```
```
```
```
["a", "b", "c"].should.not.match(/[d-z]/);
```
```javascript
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/);
```javascript
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; });
```javascript
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
```javascript
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); }]);
```javascript
```javascript
## .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 exeption 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);
```
## .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:

```javascript
(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
```

## 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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1.732 sleep 1.1.3

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"author": "Erik Dubbelboer <erik@dubbelboer.com>",
"url": "https://github.com/ErikDubbelboer/node-sleep.git"
"url": "https://github.com/ErikDubbelboer/node-sleep.git"

1.733 sliced 0.0.5

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1.740 socket.io-client 0.9.16

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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.

```javascript
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:

```javascript
var chat = io.connect('http://localhost/chat);
chat.on('connect', function () {
  // chat socket connected
});
```

```javascript
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(û)*

Establishes a connection. If û 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, û)*

Adds a listener for the event *event*.

- *once(event, û)*

Adds a one time listener for the event *event*. The listener is removed after the first time the event is fired.

- *removeListener(event, û)*

Removes the listener û 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 where unsuccessful in reconnecting to the server.

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1.745 sqlite3 3.0.4

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1.755 streamsearch 0.1.2

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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)

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

## Install

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

Open Source Used In Virtual Media Packager 2.7
## Usage

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

stripAnsi('u001b[4mcake[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 instanceof `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' }
})
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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**1.761 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)

> Detect whether a terminal supports color

```js
var supportsColor = require('supports-color);
```
if (supportsColor) {
    console.log('Terminal supports color');
}

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

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

## CLI

```
$ npm install --global supports-color
```

```
$ supports-color --help
```

Usage

supports-color

Exits with code 0 if color is supported and 1 if not

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### 1.762 swagger-node-express 2.0.1

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```json
{
    "name": "swagger-node-express",
    "version": "2.0.1",
    "author": {
        "name": "Tony Tam",
        "email": "fehGuy@gmail.com",
        "url": "http://developer.wordnik.com"
    },
    "contributors": [
        {
            "name": "Pauh Hill",
            "email": "phill@kixeye.com"
        }
    ]
}
```
"description": "Wordnik swagger implementation for the express framework",
"repository": {
  "type": "git",
  "url": "https://github.com/wordnik/swagger-node-express"
},
"keywords": ["http", "rest", "swagger", "server"],
"main": "index.js",
"directories": {
  "lib": "./Common/node"
},
"engines": {
  "node": ">= 0.8.x"
},
"dependencies": {
  "connect": ">= 1.8.x",
  "express": "3.x",
  "docco": "0.4.x",
  "lodash": "1.3.1"
},
"license": "apache 2.0"

1.763 syslog-ng 3.5.6 :1.el7

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FAQ:
====

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A: Yes, that's exactly the point of open source. Works derived from the
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them as well.

Q: Do I need to sign a Contributory License Agreement in order for my
contribution to be accepted?

A: No, starting with syslog-ng 3.2, you don't need to sign a CLA in order to
have your contributions accepted.

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This is syslog-ng, written and maintained by <bazsi@balabit.hu>
on Sat, 03 Mar 2007 16:07:59 +0100

The original source can always be found at:
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FAQ:
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The questions and answers below try to summarize the intentions behind this
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A: Yes, that's exactly the point of open source. Works derived from the plugins will have to use the GPL license, but you can choose to use LGPL for them as well.

Q: Do I need to sign a Contributory License Agreement in order for my contribution to be accepted?

A: No, starting with syslog-ng 3.2, you don't need to sign a CLA in order to have your contributions accepted.

Q: Is it possible to create non-free plugins for syslog-ng?

A: Yes. It is our understanding that plugins are derived works of the syslog-ng core but not derived works of other plugins. Thus, non-free plugins are possible, provided they do not link to any of the GPLd plugins explicitly and the only connection between two plugins is via the syslog-ng core.

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1.765 syslog-ng_MPLv1.1 3.5.6

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1.766 thenify 3.1.0
1.766.1 Available under license :

# thenify

```
var thenify = require('thenify');

var somethingAsync = thenify(function somethingAsync(a, b, c, callback) {
    callback(null, a, b, c);
```

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`n errors in that async function will be caught by the promise!

## API

- Turn async functions into promises

```js
```
- 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)
```

Promisify a function.

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1.767 thenify-all 1.6.0

1.767.1 Available under license :

```# thenify-all

# thenify-all
```

[[NPM version][npm-image]][npm-url]
[[Build status][travis-image]][travis-url]
Promisifies all the selected functions in an object.

```js
var thenifyAll = require('thenify-all');

var fs = thenifyAll(require('fs'),{}, ['readFile', 'writeFile', ]);:

fs.readFile(__filename).then(function (buffer) {
    console.log(buffer.toString());
});
```

## API

### var obj = thenifyAll(source, [obj], [methods])

Promisifies all the selected functions in an object.

- `source` - the source object for the async functions
- `obj` - the destination to set all the promisified methods
- `methods` - an array of method names of `source`

### var obj = thenifyAll.withCallback(source, [obj], [methods])

Promisifies all the selected functions in an object and backward compatible with callback.

- `source` - the source object for the async functions
- `obj` - the destination to set all the promisified methods
- `methods` - an array of method names of `source`

### thenifyAll.thenify

Exports [thenify](https://github.com/thenables/thenify) this package uses.

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1.768 through 2.3.7

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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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1975
1.771 tough-cookie 0.9.15

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1.774 transformers 2.1.0
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```json
{
  "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": {
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    "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": "4b46e72c63ad3403fd5ed3802d547de677311"
}
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  "expect.js": "~0.2",  
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  "css": "~1.0.8",
"uglify-js": "~2.2.5"
}
}

1.775 traverse 0.3.9

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1.778 type-is 1.3.2

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# type-is

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Infer the content-type of a request.

```sh
```

```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
      break
  }
}
```

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

Infer the content type of a request.

Extracted from [koa](https://github.com/koajs/koa) for general use.

Here's an example body parser:
```js
var is = require('type-is');
var parse = require('body');
var busboy = require('busboy');

function bodyParser(req, res, next) {
  var hasRequestBody = 'content-type' in req.headers
    || 'transfer-encoding' in req.headers;
  if (!hasRequestBody) return next();

  switch (is(req, ['urlencoded', 'json', 'multipart'])) {
    case 'urlencoded':
      // parse urlencoded body
      break;
    case 'json':
      // parse json body
      break;
    case 'multipart':
      // parse multipart body
      break;
    default:
      // 415 error code
      break;
  }
}
```

## 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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1.781 type-is 1.5.7

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1.784 type-of-is 3.3.0

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```json
{
  "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",
    "type-of-is",
  ]
}
"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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Based on parse-js (http://marijn.haverbeke.nl/parse-js/).

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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
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 */
1.787 uglify-js 2.4.23

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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 âexportsâ and âglobalâ 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/doe/work/foo/src/js/file1.js 
  /home/doe/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 à compiled JS, UglifyJS can generate a map from CoffeeScript à 
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`) to pass a comma-separated list of names. For example:

```
uglifyjs ... -m -r '$,require,exports'
```

to prevent the `require`, `exports` and `$` names from being changed.

## Compressor options

You need to pass `--compress` (`-c`) to enable the compressor. Optionally you can pass a comma-separated list of options. Options are in the form `foo=bar`, or just `foo` (the latter implies a boolean option that you want to set `true`; it’s effectively a shortcut for `foo=true`).

The defaults should be tuned for maximum compression on most code. Here are the available options (all are `true` by default, except `hoist_vars`):

- `sequences` -- join consecutive simple statements using the comma operator
- `properties` -- rewrite property access using the dot notation, for example `foo["bar"]` â `foo.bar`
- `dead_code` -- remove unreachable code
- `drop_debugger` -- remove `debugger;` statements
- `unsafe` -- apply "unsafe" transformations (discussion below)
- `conditional` -- apply optimizations for `if`-`s and conditional expressions
- `comparisons` -- apply certain optimizations to binary nodes, for example: `${a <= b} â a > b` (only when `unsafe`), attempts to negate binary nodes, e.g. `a = !b & & !c && !d & & !e â a=(b|c|d|e)` etc.
- `evaluate` -- attempt to evaluate constant expressions
- `booleans` -- various optimizations for boolean context, for example `!!a ? b : c`
- `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:

```javascript
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:

```javascript
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 âIE-proofâ 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:

```javascript
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 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
```javascript
var result = UglifyJS.minify("var b = function () {"; (fromString: true));

You can also compress multiple files:

```javascript
var result = UglifyJS.minify([ "file1.js", "file2.js", "file3.js" ]); console.log(result.code);
```

To generate a source map:

```javascript
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:

```javascript
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:

```javascript
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.

[sm-spec]: https://github.com/bramDestructor/source-map
- `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

```javascript
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:

```javascript
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:

```javascript
  toplevel.figure_out_scope()
```

#### Compression

Like this:

```javascript
  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:

```javascript
  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:

```javascript
  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:

```javascript
  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`: the file name of the original file
- `nlb`: 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] library).

Example:

```javascript
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
[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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1.804 underscore.string 2.4.0

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  "homepage": "http://epeli.github.com/underscore.string/",
  "contributors": [
    "Esa-Matti Suuronen <esa-matti@suuronen.org> (http://esa-matti.suuronen.org/)",
    "Edward Tsech <edtsech@gmail.com>.",
    "Pavel Pravosud <pavel@pravosud.com> (<https://github.com/rwz>)",
    "Sasha Koss <kossnocorp@gmail.com> (http://koss.nocorp.me)/",
    "Vladimir Dronnikov <dronnikov@gmail.com>",
    "Pete Kruckenberg (<https://github.com/kruckenb>)",
    "Paul Chavard <paul@chavard.net> (<http://tchak.net>)",
    "Ed Finkler <coj@funkatron.com> (<http://funkatron.com>)"
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1.805 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 <kossncorp@gmail.com> (http://koss.nocorp.me)",
    "Vladimir Dronnikov <dronnikov@gmail.com>",
    "Pete Kruckenberg (<https://github.com/kruckenb>)",
    "Paul Chavard <paul@chavard.net> (<http://tchak.net>)",
    "Ed Finkler <coj@funkatron.com> (<http://funkatron.com>)"
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  "directories": {
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  },
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  },
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    {
      "type": "MIT"
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1.806 url 0.10.2

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1.810 uuid 2.0.1

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1.811 validator 3.22.1

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1.816 vhost 1.0.0

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# Virtual Host

Previously `connect.vhost()`.

Usage:

```js
```

```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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1.817 void-elements 1.0.0

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1.819 which 1.0.9

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1.826 wordwrap 0.0.2

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    "version": "0.0.2",
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    ]
}
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  "example" : "example",
  "test" : "test"
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  "node" : ">=0.4.0"
},
"license" : "MIT/X11",
"author" : {
  "name" : "James Halliday",
  "email" : "mail@substack.net",
  "url" : "http://substack.net"
}
}

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1.829 ws 0.4.32
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[![Build Status](https://secure.travis-ci.org/einaros/ws.png)](http://travis-ci.org/einaros/ws)

```
# ws: a node.js websocket library #

`ws` is a simple to use websocket implementation, up-to-date against RFC-6455, and [probably the fastest WebSocket library for node.js](http://web.archive.org/web/20130314230536/http://hobbycoding.posterous.com/the-fastest-websocket-module-for-nodejs).

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

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

## Protocol support ##

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

_See the echo.websocket.org 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');
wson('open', function() {
    ws.send('something');
});
wson('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');
wson('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});
wson('connection', function(ws) {
    ws.on('message', function(message) {
        console.log('received: %s', message);
    });
w.send('something');
});
```  

### Server sending broadcast data ###

---

**Open Source Used In Virtual Media Packager 2.7**

2095
```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) {
```
```javascript
console.log('Roundtrip time: ' + (Date.now() - parseInt(data)) + 'ms', flags);
setTimeout(function() {
    ws.send(Date.now().toString(), {mask: true});
}, 500);
}
```

```bash
### wscat against echo.websocket.org ###

$ npm install -g ws
$ wscat -c ws://echo.websocket.org
connected (press CTRL+C to quit)
> hi there
< hi there
> are you a happy parrot?
< are you a happy parrot?

### Other examples ###

For a full example with a browser client communicating with a ws server, see the examples folder.

Note that the usage together with Express 3.0 is quite different from Express 2.x. The difference is expressed in the two different serverstats-examples.

Otherwise, see the test cases.

### Running the tests ###

`make test`

## API Docs ##

See the doc/ directory for Node.js-like docs for the ws classes.

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1.830 wxGTK 2.8.12 :8.el7

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is
legally a derivative work. (Executables containing this object
code plus portions of the Library will still fall under Section
6.)

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

6. As an exception to the Sections above, you may also compile
or link a "work that uses the Library" with the Library to
produce a work containing portions of the Library, and
distribute that work under terms of your choice, provided that
the terms permit modification of the work for the customer's own
use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that
the Library is used in it and that the Library and its use are
covered by this License. You must supply a copy of this
License. If the work during execution displays copyright
notices, you must include the copyright notice for the Library
among them, as well as a reference directing the user to the
copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding
machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
Library will not necessarily be able to recompile the application
to use the modified definitions.)

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

c) If distribution of the work is made by offering access to copy
from a designated place, offer equivalent access to copy the above
specified materials from the same place.

d) Verify that the user has already received a copy of these
materials or that you have already sent this user a copy.
For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

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   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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To apply these terms, attach the following notices to the
library. It is safest to attach them to the start of each
source file to most effectively convey the exclusion of
warranty; and each file should have at least the "copyright"
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<one line to give the library's name and a brief idea of what it does.>
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Version 2, June 1991

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[This is the first released version of the library GPL. It is numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

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The reason we have a separate public license for some libraries is that
they blur the distinction we usually make between modifying or adding to a
program and simply using it. Linking a program with a library, without
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a textual and legal sense, the linked executable is a combined work, a
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Because of this blurred distinction, using the ordinary General
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sharing, because most developers did not use the libraries. We
concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
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preserving your freedom as a user of such programs to change the free
libraries that are incorporated in them. (We have not seen how to achieve
this as regards changes in header files, but we have achieved it as regards
changes in the actual functions of the Library.) The hope is that this
will lead to faster development of free libraries.
The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the
When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

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**********************************************************************
/* 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 (deflate format) and rfc1952.txt (gzip format).

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1.838 xmlhttprequest 1.4.2

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1.839 xtend 4.0.0

1.839.1 Available under license:

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1.840 yaml 0.2.3

1.840.1 Available under license:

```yaml
# 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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1.842 zeparser 0.0.5
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