



Open Source Used In Video Media Packager 2.8

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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: 98696601-141826741.

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 ac/LGPLv2.1 2.2.51 :12.e17

1.8.1 Available under license

1.9 acorn 0.11.0

- 1.9.1 Available under license
- 1.10 acorn 1.0.3**
 - 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 0.2.2**
 - 1.20.1 Available under license
- 1.21 asn1 0.1.11**
 - 1.21.1 Available under license
- 1.22 asn1 0.2.1**
 - 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 0.6.2**
 - 1.25.1 Available under license
- 1.26 async 0.1.15**
 - 1.26.1 Available under license
- 1.27 async 0.2.10**
 - 1.27.1 Available under license
- 1.28 async 0.2.9**
 - 1.28.1 Available under license

- 1.29 async 0.9.2**
 - 1.29.1 Available under license
- 1.30 async 0.1.22**
 - 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.e17**
 - 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.e17**
 - 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.e17**
 - 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 1.12.4

1.57.1 Available under license

1.58 body-parser 1.12.0

1.58.1 Available under license

1.59 boom 2.6.1

1.59.1 Available under license

1.60 boom 0.4.2

1.60.1 Available under license

1.61 boom 2.7.2

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 0.2.19

1.65.1 Available under license

1.66 bson 0.2.20

1.66.1 Available under license

1.67 bson 0.2.2

1.67.1 Available under license
1.68 bson 0.1.4
1.68.1 Available under license
1.69 bson 0.2.21
1.69.1 Available under license
1.70 Buffer 0.0.0
1.70.1 Available under license
1.71 buffer 3.0.1
1.71.1 Available under license
1.72 buffer-crc32 0.2.3
1.72.1 Available under license
1.73 buffer-crc32 0.1.1
1.73.1 Available under license
1.74 buffer-crc32 0.2.1
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 1.0.0
1.78.1 Available under license
1.79 bytes 0.1.0
1.79.1 Available under license
1.80 bytes 0.2.0
1.80.1 Available under license
1.81 bytes 2.1.0
1.81.1 Available under license
1.82 bytes 0.2.1
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 1.2.1

1.91.1 Available under license

1.92 character-parser 1.0.2

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 1.0.3

1.101.1 Available under license

1.102 combined-stream 0.0.7

1.102.1 Available under license

1.103 commander 1.2.0

1.103.1 Available under license

1.104 commander 2.7.1

1.104.1 Available under license

- 1.105 commander 2.8.1**
 - 1.105.1 Available under license
- 1.106 commander 0.6.1**
 - 1.106.1 Available under license
- 1.107 commander 2.0.0**
 - 1.107.1 Available under license
- 1.108 commander 1.3.2**
 - 1.108.1 Available under license
- 1.109 commander 2.6.0**
 - 1.109.1 Available under license
- 1.110 commander 2.1.0**
 - 1.110.1 Available under license
- 1.111 compressible 2.0.2**
 - 1.111.1 Available under license
- 1.112 compressible 1.0.0**
 - 1.112.1 Available under license
- 1.113 compression 1.4.4**
 - 1.113.1 Available under license
- 1.114 compression 1.4.1**
 - 1.114.1 Available under license
- 1.115 compression 1.0.0**
 - 1.115.1 Available under license
- 1.116 compression 1.4.3**
 - 1.116.1 Available under license
- 1.117 concat-map 0.0.1**
 - 1.117.1 Available under license
- 1.118 connect 2.7.2**
 - 1.118.1 Available under license
- 1.119 connect 2.29.1**
 - 1.119.1 Available under license
- 1.120 connect 2.12.0**
 - 1.120.1 Available under license
- 1.121 connect 2.29.2**
 - 1.121.1 Available under license
- 1.122 connect 2.8.7**
 - 1.122.1 Available under license
- 1.123 connect 2.29.0**
 - 1.123.1 Available under license
- 1.124 connect 2.8.8**

1.124.1 Available under license
1.125 connect 3.3.4
1.125.1 Available under license
1.126 connect 2.14.1
1.126.1 Available under license
1.127 connect 3.3.5
1.127.1 Available under license
1.128 connect-timeout 1.0.0
1.128.1 Available under license
1.129 connect-timeout 1.6.1
1.129.1 Available under license
1.130 connect-timeout 1.6.0
1.130.1 Available under license
1.131 connect-timeout 1.6.2
1.131.1 Available under license
1.132 constantinople 1.0.2
1.132.1 Available under license
1.133 constantinople 3.0.1
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 0.1.2
1.138.1 Available under license
1.139 cookie 0.1.1
1.139.1 Available under license
1.140 cookie 0.0.5
1.140.1 Available under license
1.141 cookie 0.1.0
1.141.1 Available under license
1.142 cookie 0.1.3
1.142.1 Available under license
1.143 cookie-parser 1.3.4
1.143.1 Available under license

- 1.144 cookie-parser 1.3.2**
 - 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 0.0.1**
 - 1.147.1 Available under license
- 1.148 cookie-signature 1.0.6**
 - 1.148.1 Available under license
- 1.149 cookie-signature 1.0.4**
 - 1.149.1 Available under license
- 1.150 cookie-signature 1.0.3**
 - 1.150.1 Available under license
- 1.151 cookie-signature 1.0.1**
 - 1.151.1 Available under license
- 1.152 cookie-signature 1.0.5**
 - 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 2.0.4**
 - 1.157.1 Available under license
- 1.158 cryptiles 0.2.2**
 - 1.158.1 Available under license
- 1.159 crypto 0.0.3**
 - 1.159.1 Available under license
- 1.160 csrf 2.0.7**
 - 1.160.1 Available under license
- 1.161 csrf 2.0.6**
 - 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 0.3.0

1.165.1 Available under license

1.166 cssom 0.2.5

1.166.1 Available under license

1.167 cssstyle 0.2.23

1.167.1 Available under license

1.168 cssstyle 0.2.27

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 0.7.4

1.176.1 Available under license

1.177 debug 1.0.4

1.177.1 Available under license

1.178 debug 0.8.0

1.178.1 Available under license

1.179 debug 2.1.3

1.179.1 Available under license

1.180 debug 0.8.1

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 0.4.4
1.189.1 Available under license
1.190 depd 1.0.0
1.190.1 Available under license
1.191 depd 1.0.1
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

- 1.201.1 Available under license
- 1.202 dtrace-provider 0.2.8**
 - 1.202.1 Available under license
- 1.203 ee-first 1.1.0**
 - 1.203.1 Available under license
- 1.204 ee-first 1.0.3**
 - 1.204.1 Available under license
- 1.205 elasticsearch 1.1.1 :1**
 - 1.205.1 Available under license
- 1.206 elementtree 0.1.6**
 - 1.206.1 Available under license
- 1.207 emitter-component 1.0.0**
 - 1.207.1 Available under license
- 1.208 enum 0.2.5**
 - 1.208.1 Available under license
- 1.209 enum 0.2.7**
 - 1.209.1 Available under license
- 1.210 epel-release 7 :2**
 - 1.210.1 Available under license
- 1.211 erlang R16B**
 - 1.211.1 Available under license
- 1.212 erlang_LGPLv2.1 R16B**
 - 1.212.1 Available under license
- 1.213 errorhandler 1.3.6**
 - 1.213.1 Available under license
- 1.214 errorhandler 1.3.5**
 - 1.214.1 Available under license
- 1.215 errorhandler 1.3.4**
 - 1.215.1 Available under license
- 1.216 errorhandler 1.0.0**
 - 1.216.1 Available under license
- 1.217 errorhandler 1.1.1**
 - 1.217.1 Available under license
- 1.218 escape-html 1.0.1**
 - 1.218.1 Available under license
- 1.219 escape-string-regexp 1.0.3**
 - 1.219.1 Available under license
- 1.220 escodegen 1.3.3**
 - 1.220.1 Available under license

- 1.221 esprima 1.2.5**
 - 1.221.1 Available under license
- 1.222 esprima 2.0.0**
 - 1.222.1 Available under license
- 1.223 esprima 1.0.4**
 - 1.223.1 Available under license
- 1.224 esprima 1.1.1**
 - 1.224.1 Available under license
- 1.225 estraverse 1.5.1**
 - 1.225.1 Available under license
- 1.226 esutils 1.0.0**
 - 1.226.1 Available under license
- 1.227 etag 1.5.1**
 - 1.227.1 Available under license
- 1.228 etag 1.6.0**
 - 1.228.1 Available under license
- 1.229 eventemitter3 1.1.0**
 - 1.229.1 Available under license
- 1.230 eventemitter3 0.1.6**
 - 1.230.1 Available under license
- 1.231 eventlog 0.2.13 :4.el7**
 - 1.231.1 Available under license
- 1.232 events 1.0.2**
 - 1.232.1 Available under license
- 1.233 events 1.0.0**
 - 1.233.1 Available under license
- 1.234 expat_PrintPath 2.1.0 :8.el7**
 - 1.234.1 Notifications
 - 1.234.2 Available under license
- 1.235 expect 0.1.1**
 - 1.235.1 Available under license
- 1.236 expect 1.4.0**
 - 1.236.1 Available under license
- 1.237 expect.js 0.3.1**
 - 1.237.1 Available under license
- 1.238 express 4.10.1**
 - 1.238.1 Available under license
- 1.239 express 4.1.2**
 - 1.239.1 Available under license

1.240 express 3.20.3

1.240.1 Available under license

1.241 express 3.3.8

1.241.1 Available under license

1.242 express 3.20.0

1.242.1 Available under license

1.243 express 3.20.2

1.243.1 Available under license

1.244 express 3.3.7

1.244.1 Available under license

1.245 express 3.4.7

1.245.1 Available under license

1.246 express 3.0.6

1.246.1 Available under license

1.247 express 3.4.8

1.247.1 Available under license

1.248 express 3.5.0

1.248.1 Available under license

1.249 express-paginate 0.0.2

1.249.1 Available under license

1.250 express-session 1.7.2

1.250.1 Available under license

1.251 express-session 1.0.2

1.251.1 Available under license

1.252 express-session 1.10.4

1.252.1 Available under license

1.253 express-session 1.10.3

1.253.1 Available under license

1.254 extend 1.2.1

1.254.1 Available under license

1.255 eyes 0.1.8

1.255.1 Available under license

1.256 factor 2.4.0 :1.e17

1.256.1 Available under license

1.257 fg-lodash 0.0.1

1.257.1 Available under license

1.258 fileset 0.1.5

1.258.1 Available under license

1.259 finalhandler 0.3.3

1.259.1 Available under license
1.260 finalhandler 0.3.2
1.260.1 Available under license
1.261 finalhandler 0.3.4
1.261.1 Available under license
1.262 finalhandler 0.3.6
1.262.1 Available under license
1.263 finished 1.2.2
1.263.1 Available under license
1.264 forever-agent 0.6.1
1.264.1 Available under license
1.265 forever-agent 0.5.2
1.265.1 Available under license
1.266 form-data 0.1.4
1.266.1 Available under license
1.267 form-data 0.2.0
1.267.1 Available under license
1.268 formatio 1.1.1
1.268.1 Available under license
1.269 formidable 1.0.11
1.269.1 Available under license
1.270 formidable 1.0.14
1.270.1 Available under license
1.271 forwarded 0.1.0
1.271.1 Available under license
1.272 fresh 0.2.0
1.272.1 Available under license
1.273 fresh 0.2.4
1.273.1 Available under license
1.274 fresh 0.2.2
1.274.1 Available under license
1.275 fresh 0.1.0
1.275.1 Available under license
1.276 fs 0.0.2
1.276.1 Available under license
1.277 fs-ext 0.3.2
1.277.1 Available under license
1.278 fs-ext 0.4.4
1.278.1 Available under license

1.279 fs-extra 0.16.5

1.279.1 Available under license

1.280 generate-function 2.0.0

1.280.1 Available under license

1.281 generate-object-property 1.2.0

1.281.1 Available under license

1.282 get-stdin 4.0.1

1.282.1 Available under license

1.283 glob 3.2.3

1.283.1 Available under license

1.284 glob 3.2.11

1.284.1 Available under license

1.285 glob 3.2.9

1.285.1 Available under license

1.286 gmp_GPLv3 5.1.1 :5.el7

1.286.1 Available under license

1.287 gobject-introspection_LGPLv2 1.36.0 :4.el7

1.287.1 Available under license

1.288 gpgme_docs 1.3.2 :5.el7

1.288.1 Available under license

1.289 gpm_scripts 1.20.7 :5.el7

1.289.1 Available under license

1.290 graceful-fs 2.0.3

1.290.1 Available under license

1.291 graceful-fs 3.0.6

1.291.1 Available under license

1.292 graceful-readlink 1.0.1

1.292.1 Available under license

1.293 growl 1.7.0

1.293.1 Available under license

1.294 gyp 0.1 :0.11.1617svn.el7

1.294.1 Available under license

1.295 handlebars 1.3.0

1.295.1 Available under license

1.296 har-validator 1.7.1

1.296.1 Available under license

1.297 has-ansi 1.0.3

1.297.1 Available under license

1.298 hashmap 1.0.0

1.298.1 Available under license
1.299 hawk 2.3.1
1.299.1 Available under license
1.300 hawk 1.0.0
1.300.1 Available under license
1.301 hawk 1.1.1
1.301.1 Available under license
1.302 heartbeat 3.0.6 :0rc1.fedora
1.302.1 Available under license
1.303 hiera 1.3.4 :1.el7
1.303.1 Available under license
1.304 hoek 0.9.1
1.304.1 Available under license
1.305 hoek 2.14.0
1.305.1 Available under license
1.306 hoek 2.11.0
1.306.1 Available under license
1.307 hoek 2.11.1
1.307.1 Available under license
1.308 hooks 0.3.2
1.308.1 Available under license
1.309 hooks 0.2.1
1.309.1 Available under license
1.310 htmlparser 1.7.6
1.310.1 Available under license
1.311 http 0.0.0
1.311.1 Available under license
1.312 http-errors 1.3.1
1.312.1 Available under license
1.313 http-parser 2.0 :4.20121128gitcd01361.el7
1.313.1 Available under license
1.314 http-proxy 1.6.1
1.314.1 Available under license
1.315 http-proxy 1.11.1
1.315.1 Available under license
1.316 http-proxy 1.1.2
1.316.1 Available under license
1.317 http-signature 0.11.0
1.317.1 Available under license

- 1.318 http-signature 0.10.1**
 - 1.318.1 Available under license
- 1.319 i 0.3.2**
 - 1.319.1 Available under license
- 1.320 iconv-lite 0.2.11**
 - 1.320.1 Available under license
- 1.321 iconv-lite 0.4.7**
 - 1.321.1 Available under license
- 1.322 iconv-lite 0.4.6**
 - 1.322.1 Available under license
- 1.323 iconv-lite 0.4.8**
 - 1.323.1 Available under license
- 1.324 iconv-lite 0.4.4**
 - 1.324.1 Available under license
- 1.325 ieee754 1.1.4**
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1.354 json-stringify-safe 5.0.1
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- 1.357 jsonparse 0.0.5**
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- 1.358 jsonpointer 1.1.0**
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- 1.359 JSONSelect 0.4.0**
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- 1.360 JSONStream 0.10.0**
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- 1.361 JSV 4.0.2**
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- 1.368 kernel-ml 4.2.5 :1.el7.centos**
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- 1.513 nodejs-async 0.2.10 :1.el7**
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- 1.516 nodejs-boom 0.4.2 :2.el7**
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- 1.517 nodejs-child-process-close 0.1.1 :2.el7**
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- 1.531 nodejs-fstream 0.1.24 :1.el7**
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- 1.532 nodejs-fstream-ignore 0.0.7 :1.el7**

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- 1.630 python-jsonpointer 1.0 :2.el7**
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- 1.631 python-lxml_GPLv2 3.2.1 :4.el7**
 - 1.631.1 Available under license
- 1.632 python-lxml_PSFv2.x 3.2.1 :4.el7**
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- 1.634 python-pip 1.3.1 :4.el7**
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```

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```
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library 'Frob' (a library for tweaking knobs) written by James Random Hacker.
```

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

Ty Coon, President of Vice

That's all there is to it!

This package was debianized by Nathan Scott nathans@debian.org on
Tue, 26 Feb 2002 13:25:26 +1100

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1.9 acorn 0.11.0

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1.11 acorn-globals 1.0.4

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1.12 active-x-obfuscator 0.0.1

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1.13 ain2 1.2.1

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1.15 amqplib 0.2.1

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1.16 ansi-regex 1.1.1

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

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

```
## Install
```

```
```sh
```

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

```
```
```

```
## Usage
```

```
```js
```

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

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

```
//=> true
```

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

```
//=> false
```

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

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

```
```
```

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

```
## License
```

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

1.17 ansi-styles 2.0.1

1.17.1 Available under license :

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

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

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

Install

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

Usage

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

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

API

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

Styles

Modifiers

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

Colors

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

```
### Background colors
```

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

```
## Advanced usage
```

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

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

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

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

```
## License
```

```
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```

1.18 argparse 0.1.16

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1.19 argparse 1.0.2

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1.20 asn1 0.2.2

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1.21 asn1 0.1.11

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1.23 assert 1.1.2

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

1.24 assert-plus 0.1.5

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1.25 **async 0.6.2**

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1.29 async 0.9.2

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1.30 async 0.1.22

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1.31 **async 0.9.0**

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```
/*!  
* async  
* https://github.com/caolan/async  
*  
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* Released under the MIT license  
*/
```

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

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Version 2, June 1991

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1.34 attr/libattr 2.4.46 :12.e17

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Version 2.1, February 1999

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1.37 balanced-match 0.2.0

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1.38 base64-js 0.0.8

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1.39 base64-url 1.2.1

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1.40 base64id 0.1.0

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1.41 basic-auth 1.0.1

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1.42 basic-auth 1.0.0

1.42.1 Available under license :

```
# basic-auth
```

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

```
## Installation
```

```
---
```

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

```
---
```

```
## Example
```

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

```
```js
```

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

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

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

```

```

```
License
```

```
MIT
```

# 1.43 basic-auth-connect 1.0.0

## 1.43.1 Available under license :

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

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

## API

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

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

Simple username and password

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

Callback verification

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

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

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

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## 1.44 batch 0.5.0

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# 1.45 batch 0.5.2

## 1.45.1 Available under license :

```
batch
```

Simple async batch with concurrency control and progress reporting.

```
Installation
```

```
...
```

```
$ npm install batch
```

```
...
```

```
API
```

```
```js
```

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

```
batch.concurrency(4);
```

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

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

```
});
```

```
batch.end(function(err, users){
```

```
});
```

```
...
```

```
### Progress events
```

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

```
```js
```

```
{ index: 1,
 value: 'bar',
 pending: 2,
 total: 3,
```



```
complete: 2,
percent: 66,
start: Thu Oct 04 2012 12:25:53 GMT-0700 (PDT),
end: Thu Oct 04 2012 12:25:53 GMT-0700 (PDT),
duration: 0 }
...

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(The MIT License)

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```

## 1.46 binary 0.3.0

### 1.46.1 Available under license :

```
{
 "name" : "binary",
 "version" : "0.3.0",
 "description" : "Unpack multibyte binary values from buffers",
 "main" : "./index.js",
 "repository" : {
 "type" : "git",
 "url" : "http://github.com/substack/node-binary.git"
 },
 "keywords": [
 "binary",
 "decode",
```

```

 "endian",
 "unpack",
 "signed",
 "unsigned"
],
 "author" : {
 "name" : "James Halliday",
 "email" : "mail@substack.net",
 "url" : "http://substack.net"
 },
 "dependencies" : {
 "chainsaw" : "~0.1.0",
 "buffers" : "~0.1.1"
 },
 "devDependencies" : {
 "seq" : "~0.2.5",
 "tap" : "~0.2.4"
 },
 "scripts" : {
 "test" : "tap test/*.js"
 },
 "license" : "MIT",
 "engine" : {
 "node" : ">=0.4.0"
 }
}

```

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

### 1.47.1 Available under license :

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Index: openssl/crypto/engine/cryptoki.h

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

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

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

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

+/\*

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```

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```

## 1.48 bindings 1.2.1

### 1.48.1 Available under license :

```
node-bindings
```

```
=====
```

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

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

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

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

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

```
Installation
```

```

```



Install with `npm`:

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

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

Example

-----

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

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

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

Nice Error Output

-----

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

...

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

...  
^^^

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-----

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## 1.49 bindings 1.1.1

### 1.49.1 Available under license :

node-bindings

=====

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

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

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

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

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

## Installation

-----

Install with ``npm``:

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

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

## Example

-----

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

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

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

## Nice Error Output

-----

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

```

```
Error: Could not load the bindings file. Tried:
  â /Users/nrajlich/ref/build/binding.node
  â /Users/nrajlich/ref/build/Debug/binding.node
  â /Users/nrajlich/ref/build/Release/binding.node
  â /Users/nrajlich/ref/out/Debug/binding.node
  â /Users/nrajlich/ref/Debug/binding.node
  â /Users/nrajlich/ref/out/Release/binding.node
  â /Users/nrajlich/ref/Release/binding.node
  â /Users/nrajlich/ref/build/default/binding.node
  â /Users/nrajlich/ref/compiled/0.8.2/darwin/x64/binding.node
```

```
at bindings (/Users/nrajlich/ref/node_modules/bindings/bindings.js:84:13)
at Object.<anonymous> (/Users/nrajlich/ref/lib/ref.js:5:47)
at Module._compile (module.js:449:26)
at Object.Module._extensions..js (module.js:467:10)
at Module.load (module.js:356:32)
at Function.Module._load (module.js:312:12)
...
^^^
```

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1.50 bit-array 0.2.2

1.50.1 Available under license :

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

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

- * getting, setting and toggling of individual bits
- * iterating over each bit
- * counting the number of "on" bits
- * bitwise operations with other bit arrays such as OR, AND and XOR.

- * serialization to and from JSON
- * Browser, Node.js and Ender.js compatible

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

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

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

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

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

API

The BitArray module has two constructors:

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

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

The following instance methods are supported:

```
<dl>
  <dt>size()</dt>
  <dd>Returns the total number of bits in the BitArray.</dd>

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

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

  <dt>toggle(index)</dt>
  <dd>Toggles the bit at index. If the bit is on, it is turned off. Likewise, if the bit is off it is turned on.</dd>
</dl>
```

`<dt>reset()</dt>`
`<dd>Resets the BitArray so that it is empty and can be re-used.</dd>`

`<dt>copy()</dt>`
`<dd>Returns a copy of this BitArray.</dd>`

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

`<dt>toJSON()</dt>`
`<dd>Returns the JSON representation of this BitArray.</dd>`

`<dt>toString()</dt>`
`<dd>Returns a string representation of the BitArray with bits in logical order.</dd>`

`<dt>toHexString()</dt>`
`<dd>Returns a hex representation of the BitArray.</dd>`

`<dt>toArray()</dt>`
`<dd>Convert the BitArray to an Array of boolean values.</dd>`

`<dt>count()</dt>`
`<dd>Returns the total number of bits set to 1 in this BitArray.</dd>`

`<dt>not()</dt>`
`<dd>Inverts this BitArray.</dd>`

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

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

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

`</dl>`

Installation

You can install the bit array module using npm:

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

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

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Ports

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

1.51 bitsyntax 0.0.4

1.51.1 Available under license :

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

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

1.52 bl 0.9.4

1.52.1 Available under license :

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1.53 bluebird 2.9.26

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1.54 body-parser 1.5.2

1.54.1 Available under license :

body-parser

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

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

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

Other body parsers you might be interested in:

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

Installation

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

API

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

var app = express()

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

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

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

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

bodyParser.json(options)

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

The options are:

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

The `type` argument is passed directly to the [type-is](https://www.npmjs.org/package/type-is#readme) library. This

can be an extension name (like ``json``), a mime type (like ``application/json``), or a mime type with a wildcard (like ``*/json``).

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

The ``reviver`` argument is passed directly to ``JSON.parse`` as the second argument. You can find more information on this argument [in the MDN documentation about `JSON.parse``](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON/parse#Example.3A_Using_the_reviver_parameter).

`bodyParser.raw(options)`

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

The options are:

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

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

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

`bodyParser.text(options)`

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

The options are:

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

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

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

```
### bodyParser.urlencoded(options)
```

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

The options are:

- `extended` - parse extended syntax with the `qs`(<https://www.npmjs.org/package/qs#readme>) module. (default: `true`)
- `inflate` - if deflated bodies will be inflated. (default: `true`)
- `limit` - maximum request body size. (default: `<100kb>`)
- `type` - request content-type to parse (default: `urlencoded`)
- `verify` - function to verify body content

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

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

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

```
### req.body
```

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

```
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```

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1.55 body-parser 1.10.2

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1.56 body-parser 1.12.2

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1.59 boom 2.6.1

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1.60 boom 0.4.2

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1.61 boom 2.7.2

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1.62 boost 1.55 :0

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[/=====

Boost.Geometry (aka GGL, Generic Geometry Library)

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1.63 boost - caramel 1.55 :0

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1.64 brace-expansion 1.1.0

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brace-expansion

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

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

Open Source Used In Video Media Packager 2.8](http://travis-ci.org/juliangruber/brace-</p></div><div data-bbox=)

expansion)

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

Example

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

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

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

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

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

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

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

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

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

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

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

API

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

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

Valid expansions are:

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

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

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

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

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

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

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

Installation

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

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

Contributors

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

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1.68 bson 0.1.4

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1.69 bson 0.2.21

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1.70 Buffer 0.0.0

1.70.1 Available under license :

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

1.71 buffer 3.0.1

1.71.1 Available under license :

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1.72 buffer-crc32 0.2.3

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1.73 buffer-crc32 0.1.1

1.73.1 Available under license :

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"author": "Brian J. Brennan <brianloveswords@gmail.com> (<http://bjb.io>)",

"url": "[git://github.com/brianloveswords/buffer-crc32.git](https://github.com/brianloveswords/buffer-crc32.git)"

1.74 buffer-crc32 0.2.1

1.74.1 Available under license :

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1.75 buffer-more-ints 0.0.2

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1.76 buffers 0.1.1

1.76.1 Available under license :

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1.77 bunyan 0.21.4

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1.78 bytes 1.0.0

1.78.1 Available under license :

```
# node-bytes
```

Byte string parser / formatter.

```
## Example:
```

```
```js
```

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

```
// => 1024
```

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

```
// => 2097152
```

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

```
// => 1073741824
```

```
bytes(1073741824)
```

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

```
bytes(109951162776)
```

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

```
```
```

```
## Installation
```

```
```
```

```
$ npm install bytes
```

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

```
```
```

```
## License
```

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1.79 bytes 0.1.0

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```
# node-bytes
```

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

```
## Example:
```

```
```js
```

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

```
// => 1024
```

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

```
// => 2097152
```

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

```
// => 1073741824
```

```
bytes(1073741824)
```

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

```
```
```

```
## Installation
```

```
```
```

```
$ npm install bytes
```

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

```
```
```

```
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```

```
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```

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1.80 bytes 0.2.0

1.80.1 Available under license :

```
# node-bytes
```

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

```
## Example:
```

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

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

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

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

```
## Installation
```

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

```
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```

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1.81 bytes 2.1.0

1.81.1 Available under license :

Bytes utility

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

Usage

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

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

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

Arguments

| Name | Type | Description |
|-------|----------|----------------|
| value | `number` | Value in bytes |

| options | `Object` | Conversion options |

****Options****

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

****Returns****

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

****Example****

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

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

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

bytes.parse(string value): number|null

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

****Arguments****

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

****Returns****

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

****Example****

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

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

```
## Installation
```

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

```
## License
```

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

1.82 bytes 0.2.1

1.82.1 Available under license :

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1.83 camelcase 1.1.0

1.83.1 Available under license :

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

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

```
## Install
```

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

```
## Usage
```

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

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

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

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

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

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

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

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

```
## Related
```

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

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1.84 cancelable 0.1.0

1.84.1 Available under license :

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1.85 caseless 0.9.0

1.85.1 Available under license :

```
{
  "name": "caseless",
  "version": "0.9.0",
  "description": "Caseless object set/get/has, very useful when working with HTTP headers.",
  "main": "index.js",
  "scripts": {
    "test": "node test.js"
  },
  "repository": {
    "type": "git",
    "url": "https://github.com/mikeal/caseless"
  },
}
```

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

1.86 caseless 0.8.0

1.86.1 Available under license :

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

1.87 caseless 0.10.0

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```
{
  "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

1.88.1 GNU GENERAL PUBLIC LICENSE Version 2 :

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Version 2, June 1991

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Version 3, 29 June 2007

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1.89 chainsaw 0.1.0

1.89.1 Available under license :

```
{
  "name" : "chainsaw",
  "version" : "0.1.0",
  "description" : "Build chainable fluent interfaces the easy way... with a freakin' chainsaw!",
  "main" : "./index.js",
  "repository" : {
    "type" : "git",
    "url" : "http://github.com/substack/node-chainsaw.git"
  },
  "dependencies" : {
    "traverse" : ">=0.3.0 <0.4"
  },
  "keywords" : [
    "chain",
    "fluent",
    "interface",
    "monad",
    "monadic"
  ],
  "author" : "James Halliday <mail@substack.net> (http://substack.net)",
  "license" : "MIT/X11",
  "engine" : { "node" : ">=0.4.0" }
}
```

1.90 chalk 1.0.0

1.90.1 Available under license :

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

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

> Terminal string styling done right

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

[colors.js](https://github.com/Marak/colors.js) used to be the most popular string styling module, but it has serious

deficiencies like extending ``String.prototype`` which causes all kinds of [problems](https://github.com/yeoman/yo/issues/68). Although there are other ones, they either do too much or not enough.

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

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

Why

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

Install

...

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

...

Usage

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

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

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

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

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

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

// nest styles
```

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

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

```

Easily define your own themes.

```
```js
var chalk = require('chalk');
var error = chalk.bold.red;
console.log(error('Error!'));
...

```

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

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

```

## ## API

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

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

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

Multiple arguments will be separated by space.

```
chalk.enabled
```

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

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

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

```

```
...
```

chalk.supportsColor

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

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

chalk.styles

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

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

```
```js
```

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

```
console.log(chalk.styles.red);
```

```
//=> { open: '\u001b[31m', close: '\u001b[39m' }
```

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

```
...
```

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

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

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

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

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

Example:

```
```js
```

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

```
var styledString = getText();
```

```
if (!chalk.supportsColor) {
```

```
  styledString = chalk.stripColor(styledString);
```

```
}
```

```
...
```

Styles

Modifiers

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

Colors

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

Background colors

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

256-colors

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

Windows

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

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1.91 character-parser 1.2.1

1.91.1 Available under license :

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1.92 character-parser 1.0.2

1.92.1 Available under license :

character-parser

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

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

Installation

```
npm install character-parser
```

Usage

Work out how much depth changes:

```

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

```

Bracketed Expressions

Find all the contents of a bracketed expression:

```

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

```

```

var section = parser.parseMax('{foo="(, bar=)" bing bong', {start: 1});
assert(section.start === 1);
assert(section.end === 17); //exclusive end of string
assert(section.src = 'foo="(, bar=)");
```

```

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

Custom Delimited Expressions

Find code up to a custom delimiter:

```

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

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

```

Delimiters are ignored if they are inside strings or comments.

```
## API
```

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

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

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

The resulting object has the structure:

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

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

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

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

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

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

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

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

```
```js
```

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

```

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

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

```
defaultState()
```

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

```
License
```

```
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```

## 1.93 clone 0.1.0

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## 1.96 cloud-init 0.7.5 :6.el7

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Version 3, 29 June 2007

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## 1.103 commander 1.2.0

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# Commander.js

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

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

## Installation

```
$ npm install commander
```

## Option parsing

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

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

/**
 * Module dependencies.
 */

var program = require('commander');

program
```

```

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

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

```

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

```
## Automated --help
```

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

```

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

Usage: pizza [options]

Options:

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

```

```
## Coercion
```

```

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

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

```

```

program
 .version('0.0.1')
 .usage('[options] <file ...>')
 .option('-i, --integer <n>', 'An integer argument', parseInt)
 .option('-f, --float <n>', 'A float argument', parseFloat)
 .option('-r, --range <a>..', 'A range', range)
 .option('-l, --list <items>', 'A list', list)
 .option('-o, --optional [value]', 'An optional value')
 .parse(process.argv);

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

```

### ## Custom help

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

```

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

/**
 * Module dependencies.
 */

var program = require('./');

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

```

```

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

```

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

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

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

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

```

yielding the following help output:

```
...
```

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

```
Options:
```

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

```
Examples:
```

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

```
...
```

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

Single-line prompt:

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

```

Multi-line prompt:

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

Coercion:

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

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

```
```js
program.prompt('Email: ', /^.+@.+\.+$/ , function(email){
  console.log('email: %j', email);
});
```
```

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

Prompt for password without echoing:

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

Prompt for password with mask char "\*":

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

## .confirm(msg, fn)



Confirm with the given `msg`:

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

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

Let the user choose from a `list`:

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

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

```
.outputHelp()
```

Output help information without exiting.

```
.help()
```

Output help information and exit immediately.

```
Links
```

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

```
License
```

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## 1.104 commander 2.7.1

### 1.104.1 Available under license :

```
Commander.js
```

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

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

```
Installation
```

```
$ npm install commander
```

```
Option parsing
```

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

```
```js
```

```

#!/usr/bin/env node

/**
 * Module dependencies.
 */

var program = require('commander');

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

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

```

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

Coercion

```

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

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

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

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

program

```

```

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

```

```

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

```

### ## Regular Expression

```

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

```

```

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

```

Variadic arguments

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

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

```

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

/**
 * Module dependencies.
 */

var program = require('commander');

```

```

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

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

```

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

## Git-style sub-commands

```

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

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

```

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

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

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

Automated --help

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

```

...

```

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

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

```
An application for pizzas ordering
```

```
Options:
```

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

```
...
```

```
## Custom help
```

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

```
```js
```

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

```
/**
```

```
 * Module dependencies.
```

```
 */
```

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

```
program
```

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

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

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

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

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

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

```
program.on('--help', function(){
```

```
 console.log(' Examples:');
```

```
 console.log("");
```

```

console.log(' $ custom-help --help');
console.log(' $ custom-help -h');
console.log("");
});

```

```

program.parse(process.argv);

```

```

console.log('stuff');

```

```

...

```

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

```

...

```

```

Usage: custom-help [options]

```

```

Options:

```

```

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

```

```

Examples:

```

```

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

```

```

...

```

```

.outputHelp()

```

Output help information without exiting.

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

```

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

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

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

```

...

```
## .help()
```

Output help information and exit immediately.

```
## Examples
```

```
```js
```

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

```
program
```

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

```
.option('-C, --chdir <path>', 'change the working directory')
```

```
.option('-c, --config <path>', 'set config path. defaults to ./deploy.conf')
```

```
.option('-T, --no-tests', 'ignore test hook')
```

```
program
```

```
.command('setup [env]')
```

```
.description('run setup commands for all envs')
```

```
.option("-s, --setup_mode [mode]", "Which setup mode to use")
```

```
.action(function(env, options){
```

```
 var mode = options.setup_mode || "normal";
```

```
 env = env || 'all';
```

```
 console.log('setup for %s env(s) with %s mode', env, mode);
```

```
});
```

```
program
```

```
.command('exec <cmd>')
```

```
.alias('ex')
```

```
.description('execute the given remote cmd')
```

```
.option("-e, --exec_mode <mode>", "Which exec mode to use")
```

```
.action(function(cmd, options){
```

```
 console.log('exec "%s" using %s mode', cmd, options.exec_mode);
```

```
}).on('--help', function() {
```

```
 console.log(' Examples:');
```

```
 console.log();
```

```
 console.log(' $ deploy exec sequential');
```

```
 console.log(' $ deploy exec async');
```

```
 console.log();
```

```
});
```

```
program
```

```
.command('*')
```

```
.action(function(env){
```

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

```
});
```



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

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

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1.105 commander 2.8.1

1.105.1 Available under license :

Commander.js

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

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

Installation

```
$ npm install commander
```

Option parsing

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

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

/**
 * Module dependencies.
 */
```

```

var program = require('commander');

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

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

```

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

### ## Coercion

```

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

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

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

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

program
  .version('0.0.1')
  .usage('[options] <file ...>')
  .option('-i, --integer <n>', 'An integer argument', parseInt)
  .option('-f, --float <n>', 'A float argument', parseFloat)
  .option('-r, --range <a>.<b>', 'A range', range)

```

```
.option('-l, --list <items>', 'A list', list)
.option('-o, --optional [value]', 'An optional value')
.option('-c, --collect [value]', 'A repeatable value', collect, [])
.option('-v, --verbose', 'A value that can be increased', increaseVerbosity, 0)
.parse(process.argv);
```

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

```

Regular Expression

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

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

```

### ## Variadic arguments

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

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

/**
 * Module dependencies.
 */

var program = require('commander');

program
.version('0.0.1')
.command('rmdir <dir> [otherDirs...]')
.action(function (dir, otherDirs) {

```

```

console.log('rmdir %s', dir);
if (otherDirs) {
  otherDirs.forEach(function (oDir) {
    console.log('rmdir %s', oDir);
  });
}
});

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

```

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

```
Specify the argument syntax
```

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

var program = require('./');

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

program.parse(process.argv);

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

```

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

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

program
  .version('0.0.1')
```

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

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

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

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

```
### --harmony`
```

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

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

```
## Automated --help
```

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

```
...
```

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

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

```
An application for pizzas ordering
```

```
Options:
```

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

```
...
```

```
## Custom help
```

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

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

/**
 * Module dependencies.
 */

var program = require('commander');

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

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

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

program.parse(process.argv);

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

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

```
```
```

Usage: custom-help [options]

Options:

`-h, --help` output usage information  
`-V, --version` output the version number

```
-f, --foo enable some foo
-b, --bar enable some bar
-B, --baz enable some baz
```

Examples:

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

```
...
```

```
.outputHelp()
```

Output help information without exiting.

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

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

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

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

```
.help()
```

Output help information and exit immediately.

```
Examples
```

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

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

program
  .command('setup [env]')
  .description('run setup commands for all envs')
```

```

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

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

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

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

```

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

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1.108 commander 1.3.2

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```
/*!
 * commander
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 */
```

1.109 commander 2.6.0

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```
# Commander.js
```

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

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

```
## Installation
```

```
$ npm install commander
```

```
## Option parsing
```

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

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

/**
 * Module dependencies.
 */

var program = require('commander');

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

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

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

```
## Coercion
```

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

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

```

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

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

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

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

## Variadic arguments

```

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

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

```

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

/**
 * Module dependencies.
 */

var program = require('commander');

program

```

```

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

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

```

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

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

```

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

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

```

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

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

```
## Automated --help
```

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

```

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

Usage: pizza [options]

```

An application for pizzas ordering

Options:

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

...

Custom help

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

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

/**
 * Module dependencies.
 */

var program = require('commander');

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

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

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

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

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

```
...
```

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

```
...
```

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

```
Options:
```

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

```
Examples:
```

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

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

```
...
```

```
.outputHelp()
```

```
Output help information without exiting.
```

```
.help()
```

```
Output help information and exit immediately.
```

```
Examples
```

```
```js
```

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

```
program
```

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

```
.option('-C, --chdir <path>', 'change the working directory')
```

```
.option('-c, --config <path>', 'set config path. defaults to ./deploy.conf')
```

```
.option('-T, --no-tests', 'ignore test hook')
```

```
program
```

```
.command('setup [env]')
```

```

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

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

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

program.parse(process.argv);

```

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

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1.111 compressible 2.0.2

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

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

```
## API
```

```
### compressible(type)
```

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

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

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

```
### compressible.specs
```

Exports `specifications.json`.

```
### compressible.regex
```

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

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

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

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

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

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

```

 if (err) throw err

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

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

API

var middleware = compress([options])

```

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

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

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# 1.128 connect-timeout 1.0.0

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# Timeout

Previously `connect.timeout()`.

Usage:

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

## API

### `fn = timeout(ms)`

Returns middleware that times out in `ms` milliseconds.

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# 1.140 cookie 0.0.5

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

# 1.141 cookie 0.1.0

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## 1.145 cookie-parser 1.0.1

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```
cookie-parser
```

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

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

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

## install

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

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```

# 1.146 cookie-parser 1.3.5

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# 1.147 cookie-signature 0.0.1

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```
cookie-signature
```

```
Sign and unsign cookies.
```

```
Example
```

```
```js
```

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

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

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

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

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

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

...

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1.148 cookie-signature 1.0.6

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```
# cookie-signature
```

Sign and unsign cookies.

```
## Example
```

```
```js
```

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

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

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

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

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

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

```
```
```


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```
# cookie-signature
```

```
Sign and unsign cookies.
```

```
## Example
```

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

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

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

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1.150 cookie-signature 1.0.3

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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.DGDUkGIkCzPz+C0B064FNgHdEjox7ch8tOBGslZ5QI');

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

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1.151 cookie-signature 1.0.1

1.151.1 Available under license :

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1.152 cookie-signature 1.0.5

1.152.1 Available under license :

```
# cookie-signature
```

Sign and unsign cookies.

```
## Example
```

```
```js
```

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

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

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

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

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

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

```
```
```

```
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```

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

1.155 coveralls 2.11.2

1.155.1 Available under license :

```
{
  "name": "coveralls",
  "description": "takes json-cov output into stdin and POSTs to coveralls.io",
  "keywords": [
    "coverage",
    "coveralls"
  ],
}
```

```

"version": "2.11.2",
"bugs": {
  "url": "https://github.com/cainus/node-coveralls/issues"
},
"scripts": {
  "test": "make test"
},
"bin": {
  "coveralls": "./bin/coveralls.js"
},
"maintainers": [
  "Gregg Caines <gregg@caines.ca> (http://caines.ca)"
],
"contributors": [
  "Alan Gutierrez <alan@prettyrobots.com> (http://www.prettyrobots.com/)",
  "Kir Belevich (https://github.com/svg)",
  "elliottcable <github@elliottcable.name> (http://elliottcable.name/)",
  "Slotos <slotos@gmail.com> (http://slotos.net)",
  "mattjmorrisson <mattjmorrisson@mattjmorrisson.com> (http://mattjmorrisson.com)",
  "Arpad Borsos <arpad.borsos@googlemail.com> (http://swatinem.de/)"
],
"dependencies": {
  "js-yaml": "3.0.1",
  "lcov-parse": "0.0.6",
  "log-driver": "1.2.4",
  "request": "2.40.0"
},
"devDependencies": {
  "sinon-restore": "1.0.0",
  "mocha-lcov-reporter": "0.0.1",
  "mocha": "1.8.1",
  "should": "1.1.0",
  "istanbul": "0.2.10",
  "jshint": "2.1.3"
},
"engines": {
  "node": ">=0.8.6"
},
"main": "index.js",
"directories": {
  "test": "test"
},
"repository": {
  "type": "git",
  "url": "git://github.com/cainus/node-coveralls.git"
},
"author": "Gregg Caines",
"license": "BSD"

```

}

1.156 crc 3.2.1

1.156.1 Available under license :

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1.157 cryptiles 2.0.4

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1.158 cryptiles 0.2.2

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1.159 crypto 0.0.3

1.159.1 Available under license :

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

1.160 csrf 2.0.7

1.160.1 Available under license :

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1.161 csrf 2.0.6

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1.162 css 1.0.8

1.162.1 Available under license :

css

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

Installation

```
$ npm install css
```

```
## Example
```

```
js:
```

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

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

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

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

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

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

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

```
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```

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1.163 css-parse 1.0.4

1.163.1 Available under license :

```
# css-parse
```

```
CSS parser.
```

```
## Example
```

```
js:
```

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

```
object returned:
```

```
```json
{
 "stylesheet": {
 "rules": [
```

```
{
 "selectors": ["tobi"],
 "declarations": [
 {
 "property": "name",
 "value": "tobi"
 }
]
}
]
}
}
}
...

```

### ## Performance

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

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## 1.164 css-stringify 1.0.5

## 1.164.1 Available under license :

# css-stringify

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

## Performance

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

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## 1.165 cssom 0.3.0

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## 1.166 cssom 0.2.5

### 1.166.1 Available under license :

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

```
}
}
```

## 1.167 cssstyle 0.2.23

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## 1.169 csrf 1.0.0

### 1.169.1 Available under license :

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

## 1.170 csrf 1.7.0

## 1.170.1 Available under license :

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## 1.172 cycle 1.0.3

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

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

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# 1.175 dateutil 0.1.0

## 1.175.1 Available under license :

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# 1.176 debug 0.7.4

## 1.176.1 Available under license :

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# 1.177 debug 1.0.4

## 1.177.1 Available under license :

```
debug
```

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

```
Installation
```

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

```
Usage
```

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

Example `_app.js``:

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

// fake app

debug('booting %s', name);

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

// fake worker of some kind

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

Example `_worker.js``:

```

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

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

```

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

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

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

## Millisecond diff

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

```

```

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

```

```

## Conventions

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

## Wildcards

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

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

## Browser support

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

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

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

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

#### #### Web Inspector Colors

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

Colored output looks something like:



#### ### stderr vs stdout

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

Example `_stderr.js_`:

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

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

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



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

Authors

- TJ Holowaychuk
- Nathan Rajlich

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1.178 debug 0.8.0

1.178.1 Available under license :

debug

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

Installation

```
...
```

```
$ npm install debug
```

```
...
```

Usage

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

Example `_app.js_`:

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

```
// fake app
```

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

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

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

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

```
...
```

Example `_worker.js_`:

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

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

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

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

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

Millisecond diff

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

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

Conventions

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

Wildcards

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

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

Browser support

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

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

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

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

```
}, 1200);  
```
```

```
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```

```
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```

```
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```

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## 1.179 debug 2.1.3

### 1.179.1 Available under license :

```
debug
```

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

```
Installation
```

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

```
## Usage
```

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

Example `_app.js`:

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

// fake app

debug('booting %s', name);

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

// fake worker of some kind

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

Example `_worker.js`:

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

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

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

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

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

Windows note

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

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

Then, run the program to be debugged as usual.

Millisecond diff

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

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

Conventions

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

Wildcards

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

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

Browser support

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

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

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

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

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

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

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

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

Web Inspector Colors

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

Colored output looks something like:

stderr vs stdout

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

Example `_stdout.js_`:

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

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

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

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

```

## Authors

- TJ Holowaychuk
- Nathan Rajlich

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## 1.180 debug 0.8.1

### 1.180.1 Available under license :

```
debug
```

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

```
Installation
```

```
...
```



```
$ npm install debug
```

```
^^^
```

## ## Usage

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

Example `_app.js``:

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

```
// fake app
```

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

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

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

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

```
^^^
```

Example `_worker.js``:

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

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

```
^^^
```

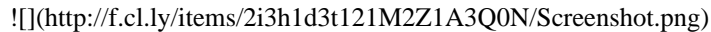
The `__DEBUG__`` environment variable is then used to enable these based on space or comma-delimited names. Here are some examples:

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

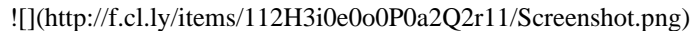
```
![debug worker](http://f.cl.ly/items/1X413v1a3M0d3C2c1E0i/Screenshot.png)
```

## ## Millisecond diff

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



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



## ## Conventions

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

## ## Wildcards

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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## 1.181 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

debug('booting %s', name);

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

// fake worker of some kind

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

```

Example `_worker.js`:

```

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

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

```

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

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

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

#### Windows note

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

```

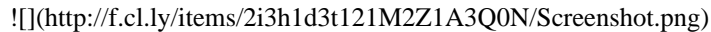
```cmd
set DEBUG=*,-not_this
```

```

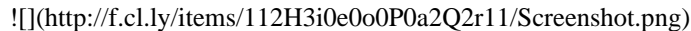
Then, run the program to be debugged as usual.

## ## Millisecond diff

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



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



## ## Conventions

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

## ## Wildcards

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

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

## ## Browser support

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

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

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

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

Refresh the page. Debug output will continue to be sent to the console until it is disabled by typing

``myDebug.disable()`` in the console.

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

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

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

#### #### Web Inspector Colors

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

Colored output looks something like:



#### ### stderr vs stdout

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

Example `_stdout.js_`:

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

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

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

// set all output to go via console.info
```

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

```

### Save debug output to a file

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

Example:

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

```

Authors

- TJ Holowaychuk
- Nathan Rajlich

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1.182 debug 2.1.1

1.182.1 Available under license :

```
# debug
```

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

```
## Installation
```

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

```
## Usage
```

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

Example `_app.js``:

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

// fake app

debug('booting %s', name);

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

// fake worker of some kind

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

Example `_worker.js``:

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



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

```

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

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

```

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

```

#### Windows note

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

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

```

Then, run the program to be debugged as usual.

## Millisecond diff

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

```


```

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

```


```

## Conventions

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

## Wildcards

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

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

## ## Browser support

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

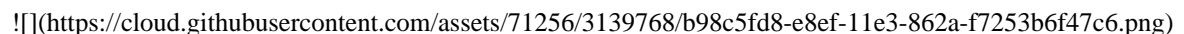
setInterval(function(){
 a('doing some work');
}, 1000);

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:

 (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
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');
...

```

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1.183 decamelize 1.0.0

1.183.1 Available under license :

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

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

> Example: `unicornRainbow` → `unicorn_rainbow`

```
## Install
```

```
```sh
```

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

```
```
```

```
## Usage
```

```
```js
```

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

```
decamelize('unicornRainbow');
```

```
//=> unicorn_rainbow
```

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

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

```
```
```

```
## API
```

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

```
#### input
```

Required

Type: `string`

```
#### separator
```

Type: `string`

Default: `_`

```
## Related
```

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

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1.184 deep-diff 0.1.7

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1.185 deep-diff 0.2.0

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1.186 deep-equal 1.0.0

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1.188 delayed-stream 0.0.5

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1.189 depd 0.4.4

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1.191 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

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

Destroy a stream.

API

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

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

[npm-image]: <https://img.shields.io/npm/v/destroy.svg?style=flat-square>

[npm-url]: <https://npmjs.org/package/destroy>

[github-tag]: <http://img.shields.io/github/tag/stream-utils/destroy.svg?style=flat-square>

[github-url]: <https://github.com/stream-utils/destroy/tags>
[travis-image]: <https://img.shields.io/travis/stream-utils/destroy.svg?style=flat-square>
[travis-url]: <https://travis-ci.org/stream-utils/destroy>
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[gittip-image]: <https://img.shields.io/gittip/jonathanong.svg?style=flat-square>
[gittip-url]: <https://www.gittip.com/jonathanong/>

1.194 dhcp/bind 4.2.5 :27.el7.centos

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

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

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

Author: Julio Merino <jmmv@NetBSD.org>

* `atf-c++/detail/io.hpp`, `atf-c++/detail/io.cpp`, `atf-c++/detail/io_test.cpp`:
These files were derived from the `file_handle`, `systembuf`, `pipe` and `pistream`

classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

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

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

1.195.1 Available under license :

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```
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#                 dhclient based on DHCP client communication
#
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#
# Author(s): David Cantrell <dcantrell@redhat.com>
#           Jiri Popelka <jpopelka@redhat.com>
#
# -----
# This script is a rewrite/reworking on dhclient-script originally
```

```
# included as part of dhcp-970306:
# dhclient-script for Linux. Dan Halbert, March, 1997.
# Updated for Linux 2.[12] by Brian J. Murrell, January 1999.
# Modified by David Cantrell <dcantrell@redhat.com> for Fedora and RHEL
# -----
#
```

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

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

1.197 dhcping 1.2 :13.e17

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1.199 diskspace 0.1.7

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1.200 docco 0.4.0

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1.202 dtrace-provider 0.2.8

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1.203 ee-first 1.1.0

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1.204 ee-first 1.0.3

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1.205 elasticsearch 1.1.1 :1

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1.206 elementtree 0.1.6

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1.207 emitter-component 1.0.0

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1.208 enum 0.2.5

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1.209 enum 0.2.7

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Introduction

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

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

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

Dependencies

No dependencies!

Download

Releases for a browser are available for download from GitHub.

```

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

# Installation (node.js)

$ npm install enum

# Installation (browser, library is AMD compatible)

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

# Usage

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

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

// define a simple enum (automatically flaggable -> A: 0x01, B: 0x02, C: 0x04)
//Uses bitwise 'OR' operation in between the values and creates enumerated constants. For example, if 'Read':1,
'Write':2, then ReadWrite= Read | Write = 1 | 2 = 3;
var myEnum = new Enum(['A', 'B', 'C']);

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

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

// define an enum with own values
var myEnum = new Enum({'A': 1, 'B': 2, 'C': 4});

// if defining a flaggable enum, you can define your own separator (default is '|')

```

```

var myEnum = new Enum(['A', 'B', 'C'], { separator: ' | ' });

// if you want your enum to have a name define it in the options
var myEnum = new Enum(['A', 'B', 'C'], { name: 'MyEnum' });

// or
var myEnum = new Enum(['A', 'B', 'C'], 'MyEnum');

//define enum type without flag
var myEnum = new Enum({'None': 0, 'Black':1, 'Red': 2, 'Red2': 3, 'Green': 4, 'Blue': 5});
myEnum; //=> Enum { _options: Object, enums: Array[6], None: EnumItem, Black: EnumItem, Red:
EnumItem.....}
myEnum.isFlaggable; //=> false

for(var i=0; i<=5; i++){ console.log(myEnum.get(i).value + '=>' + myEnum.get(i).key)}
0=> None
1=> Black
2=> Red
3=> Red2
4=> Green
5=> Blue

// get your item
myEnum.A

// or
myEnum.get('A')

// or
myEnum.get(1)

// or
myEnum.get('A | B')

// or
myEnum.get(3)

// get your value
myEnum.A.value

// get your key
myEnum.A.key

// get all items
myEnum.enums // returns all enums in an array

```

```

// compare
myEnum.A.is(myEnum.A)

// or
myEnum.A.is('A')

// or
myEnum.A.is(1)

// or
myEnum.A == 'A'

// or
myEnum.A == myEnum.A

// or
myEnum.A === myEnum.A

// check flag
var myItem = myEnum.get(3); // or [myEnum.get('A | B')]
myItem.has(myEnum.A)

// or
myItem.has('A')

// or
myItem.has(1)

// other functions
myItem.toString() // returns A | C
myItem.toJSON() // returns A | C
myItem.valueOf() // returns A | C

JSON.stringify(myItem) // returns A | C

//Type Safety:
//Newly created enumerable objects are Type-Safe in a way that it's non-configurable and no longer extensible.
//Each EnumItem has a beack-reference to a constructor and they are implicitly final.
Object.getOwnPropertyDescriptor(myEnum, 'Red'); //=> Object {value: EnumItem, writable: false, enumerable:
true, configurable: false}
Object.isExtensible(myEnum); //=> false
myEnum instanceof Enum; //=> true

//Instances of Enum created with 'new' from similar objects are not equal
myEnum1=new Enum({'A':1, 'B':2, 'C':4});

```



```

myEnum2=new Enum({'A':1, 'B':2, 'C':4});
myEnum1 == myEnum2 //=> false
myEnum1.A == myEnum2.A //=> false
myEnum1.A.value == myEnum2.A.value //=> true

//This enum object has no properties other than those defined during its creation. Existing Data is 'Persistent' and
preserves the original version
myEnum.B.value; //=> 2
myEnum.B = 5; //=> Throws TypeError
delete myEnum.B; //=> false
myEnum.D = 6; //=> doesn't add to the enum object, silently ignores
myEnum.D; // undefined

//Try to define new property throws TypeError
Object.defineProperty(myEnum, D, {value:6, writable:false, enumerable:true});
//=>TypeError: Cannot define property:D, object is not extensible.

```

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1.210 epel-release 7 :2

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1.211 erlang R16B

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

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

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

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

*/

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[PCRE]

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THE BASIC LIBRARY FUNCTIONS

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

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Cambridge, England.

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[Misc C library code]

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 */
```

[zlib]

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

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Jean-loup Gailly Mark Adler
 jloup@gzip.org madler@alumni.caltech.edu

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

*/

 [edoc, syntax_tools]

```
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%% USA
%%
%% $Id$
%%
%% @copyright 2001-2003 Richard Carlsson
%% @author Richard Carlsson <richardc@csd.uu.se>
%% [http://www.csd.uu.se/~richardc/]
%% @version { @vsn }
%% @end
%% =====
```

 [leex]

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[eldap]

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

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1.213 errorhandler 1.3.6

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1.216 errorhandler 1.0.0

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Error Handler

Previously `connect.errorHandler`.

Usage:

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

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1.217 errorhandler 1.1.1

1.217.1 Available under license :

```
# errorhandler
```

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

Previously `connect.errorHandler`.

```
## Install
```

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

```
## API
```

```
### errorhandler()
```

Create new middleware to handle errors and respond with content negotiation. This middleware is only intended to be used in a development environment, as the full error stack traces will be send back to the client when an error occurs.

```
## Example
```

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



```
var app = connect()

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

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```

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## 1.218 escape-html 1.0.1

### 1.218.1 Available under license :

```
escape-html

Escape HTML entities

Example

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

## License
```

MIT

1.219 escape-string-regexp 1.0.3

1.219.1 Available under license :

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

> Escape RegExp special characters

```
## Install
```

```
```sh
```

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

```
```
```

```
## Usage
```

```
```js
```

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

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

```
//=> how much \$ for a unicorn\?
```

```
new RegExp(escapedString);
```

```
```
```

```
## License
```

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

1.220 escodegen 1.3.3

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1.221 esprima 1.2.5

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Esprima is created and maintained by [Ariya Hidayat](<http://twitter.com/ariyahidayat>),

with the help of [many contributors](https://github.com/ariya/esprima/contributors).

Features

- Full support for ECMAScript 5.1 ([ECMA-262](http://www.ecma-international.org/publications/standards/Ecma-262.htm))
- Sensible [syntax tree format](http://esprima.org/doc/index.html#ast) compatible with Mozilla [Parser AST](https://developer.mozilla.org/en/SpiderMonkey/Parser_API)
- Optional tracking of syntax node location (index-based and line-column)
- Heavily tested (> 650 [unit tests](http://esprima.org/test/)) with [full code coverage](http://esprima.org/test/coverage.html)
- [Partial support](http://esprima.org/doc/es6.html) for ECMAScript 6

Esprima serves as a **building block** for some JavaScript language tools, from [code instrumentation](http://esprima.org/demo/functiontrace.html) to [editor autocompletion](http://esprima.org/demo/autocomplete.html).

Esprima runs on many popular web browsers, as well as other ECMAScript platforms such as [Rhino](http://www.mozilla.org/rhino), [Nashorn](http://openjdk.java.net/projects/nashorn/), and [Node.js](https://npmjs.org/package/esprima).

For more information, check the web site esprima.org.

1.222 esprima 2.0.0

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Esprima is created and maintained by [Ariya Hidayat](http://twitter.com/ariyahidayat), with the help of [many contributors](https://github.com/jquery/esprima/contributors).

Features

- Full support for ECMAScript 5.1 ([ECMA-262](http://www.ecma-international.org/publications/standards/Ecma-262.htm))
- Sensible [syntax tree format](http://esprima.org/doc/index.html#ast) compatible with Mozilla [Parser AST](https://developer.mozilla.org/en/SpiderMonkey/Parser_API)
- Optional tracking of syntax node location (index-based and line-column)
- Heavily tested (> 700 [unit tests](http://esprima.org/test/)) with [full code coverage](http://esprima.org/test/coverage.html)
- [Partial support](http://esprima.org/doc/es6.html) for ECMAScript 6

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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1.223 esprima 1.0.4

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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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1.224 esprima 1.1.1

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Esprima (esprima.org), BSD license) is a high performance, standard-compliant [ECMAScript] (<http://www.ecma-international.org/publications/standards/Ecma-262.htm>) parser written in ECMAScript (also popularly known as [JavaScript] (<http://en.wikipedia.org/wiki/JavaScript>)). Esprima is created and maintained by [Ariya Hidayat] (<http://twitter.com/ariyahidayat>), with the help of [many contributors] (<https://github.com/ariya/esprima/contributors>).

Features

- Full support for ECMAScript 5.1 ([ECMA-262] (<http://www.ecma-international.org/publications/standards/Ecma-262.htm>))
- Sensible [syntax tree format] (<http://esprima.org/doc/index.html#ast>) compatible with Mozilla [Parser AST] (https://developer.mozilla.org/en/SpiderMonkey/Parser_API)
- Optional tracking of syntax node location (index-based and line-column)
- Heavily tested (> 600 [unit tests] (<http://esprima.org/test/>)) with solid statement and branch coverage)
- Experimental support for ES6/Harmony (module, class, destructuring, ...)

Esprima serves as a **building block** for some JavaScript language tools, from [code instrumentation] (<http://esprima.org/demo/functiontrace.html>) to [editor autocompletion] (<http://esprima.org/demo/autocomplete.html>).

Esprima runs on many popular web browsers, as well as other ECMAScript platforms such as [Rhino] (<http://www.mozilla.org/rhino>) and [Node.js] (<https://npmjs.org/package/esprima>).

For more information, check the web site [esprima.org].

1.225 estraverse 1.5.1

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1.226 esutils 1.0.0

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esutils ([esutils](<http://github.com/Constellation/esutils>)) is utility box for ECMAScript language tools.

Functions

code.isDecimalDigit(code)

Return true if provided code is decimal digit.

code.isHexDigit(code)

Return true if provided code is hexadecimal digit.

code.isOctalDigit(code)

Return true if provided code is octal digit.

code.isWhiteSpace(code)

Return true if provided code is white space. White space characters are formally defined in ECMA262.

code.isLineTerminator(code)

Return true if provided code is line terminator. Line terminator characters are formally defined in ECMA262.

code.isIdentifierStart(code)

Return true if provided code can be the first character of ECMA262 Identifier. They are formally defined in ECMA262.

code.isIdentifierPart(code)

Return true if provided code can be the trailing character of ECMA262 Identifier. They are formally defined in ECMA262.

keyword

keyword.isKeywordES5(id, strict)

Return true if provided identifier string is one of Keywords in ECMA262 5.1. They are formally defined in ECMA262.

If strict flag is true, this function additionally checks whether id is keyword under strict mode.

```
#### keyword.isKeywordES6(id, strict)
```

Return true if provided identifier string is one of Keywords in ECMA262 6. They are formally defined in ECMA262.

If strict flag is true, this function additionally checks whether id is keyword under strict mode.

```
#### keyword.isRestrictedWord(id)
```

Return true if provided identifier string is one of restricted words under strict mode: "eval" or "arguments". They are formally defined in ECMA262.

```
#### keyword.isIdentifierName(id)
```

Return true if provided identifier string can be IdentifierName.

They are formally defined in ECMA262.

```
### License
```

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1.227 etag 1.5.1

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1.229 eventemitter3 1.1.0

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1.230 eventemitter3 0.1.6

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1.231 eventlog 0.2.13 :4.e17

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The original source can always be found at:
<http://www.balabit.hu/downloads/syslog-ng/1.9/src/>

Upstream Author: Scheidler Balazs <bazsi@balabit.hu>

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1.232 events 1.0.2

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1.233 events 1.0.0

1.233.1 Available under license :

```
{
  "name": "events",
  "id": "events",
  "version": "1.0.0",
  "description": "Node's event emitter for all engines.",
  "keywords": [
    "events",
    "eventEmitter",
    "eventDispatcher",
    "listeners"
  ],
  "author": "Irakli Gozalishvili <rfofic@gmail.com> (http://jedtoolkit.com)",
```

```

"repository": {
  "type": "git",
  "url": "git://github.com/GoZala/events.git",
  "web": "https://github.com/GoZala/events"
},
"bugs": {
  "url": "http://github.com/GoZala/events/issues/"
},
"main": "./events.js",
"engines": {
  "node": ">=0.4.x"
},
"devDependencies": {
  "mocha": "1.15.1",
  "zuul": "~1.0.6"
},
"scripts": {
  "test": "mocha --ui qunit -- tests/index.js && zuul -- tests/index.js"
},
"licenses": [
  {
    "type": "MIT",
    "url": "http://jedtoolkit.com/LICENSE"
  }
]
}

```

1.234 expat_PrintPath 2.1.0 :8.e17

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```

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 */

1.235 expect 0.1.1

1.235.1 Available under license :

[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.

API

expect(object).toBe(value, [message])

Asserts that `object` is strictly equal to `value` using [assert.strictEqual](http://nodejs.org/api/assert.html#assert_assert_strictequal_actual_expected_message).

expect(object).toNotBe(value, [message])

Asserts that `object` is not strictly equal to `value` using [assert.notStrictEqual](http://nodejs.org/api/assert.html#assert_assert_notstrictequal_actual_expected_message).

expect(object).toEqual(value, [message])

Asserts that the given `object` equals `value` using [assert.equal](http://nodejs.org/api/assert.html#assert_assert_equal_actual_expected_message).

expect(object).toNotEqual(value, [message])

Asserts that the given `object` is not equal to `value` using [assert.notEqual](http://nodejs.org/api/assert.html#assert_assert_notequal_actual_expected_message).

expect(block).toThrow([error], [message])

Asserts that the given `block` throws an error using [assert.throws](http://nodejs.org/api/assert.html#assert_assert_throws_block_error_message). The `error` argument may be a constructor, `RegExp`, or validation function.

```
```js
```

```
expect(function () {
 throw new Error('boom!');
}).toThrow(/boom/);
```
```

expect(block).toNotThrow([message])

Asserts that the given `block` does not throw using [assert.doesNotThrow](http://nodejs.org/api/assert.html#assert_assert_doesnotthrow_block_message).

expect(object).toBeA(constructor, [message])

Asserts the given `object` is an `instanceof constructor`.

```
```js
expect(new User).toBeA(User);
```
```

expect(string).toMatch(pattern, [message])

Asserts the given `string` matches `pattern`, which must be a `RegExp`.

```
```js
expect('a string').toMatch(/string/);
```
```

expect(number).toBeLessThan(value, [message])

Asserts the given `number` is less than `value`.

```
```js
expect(2).toBeLessThan(3);
```
```

expect(number).toBeGreaterThan(value, [message])

Asserts the given `number` is greater than `value`.

```
```js
expect(3).toBeGreaterThan(2);
```
```

expect(array).toContain(value, [comparator], [message])

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

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

expect(array).toContainEqual(value, [comparator], [message])

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

```
```js
expect([1, 2, 3]).toContainEqual(4);
```
```

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1.236 expect 1.4.0

1.236.1 Available under license :

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[!build status](https://img.shields.io/travis/mjackson/expect.svg?style=flat-square)(https://travis-ci.org/mjackson/expect)

[!dependency status](https://img.shields.io/david/mjackson/expect.svg?style=flat-square)(https://david-dm.org/mjackson/expect)

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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).toBeNot(value, [message])

Asserts that `object` is not strictly equal to value` using [assert.notStrictEqual](http://nodejs.org/api/assert.html#assert_assert_notstrictequal_actual_expected_message).`

expect(object).toEqual(value, [message])

Asserts that the given `object` equals value` using [assert.equal](http://nodejs.org/api/assert.html#assert_assert_equal_actual_expected_message).`

expect(object).toNotEqual(value, [message])

Asserts that the given `object` is not equal to value` using [assert.notEqual](http://nodejs.org/api/assert.html#assert_assert_notequal_actual_expected_message).`

expect(block).toThrow([error], [message])

Asserts that the given `block` throws an error using `[assert.throws](http://nodejs.org/api/assert.html#assert_assert_throws_block_error_message)`. The `error` argument may be a constructor, `RegExp`, or validation function.

```
```js
expect(function () {
 throw new Error('boom!');
}).toThrow(/boom/);
```
```

`expect(block).toNotThrow([message])`

Asserts that the given `block` does not throw using `[assert.doesNotThrow](http://nodejs.org/api/assert.html#assert_assert_doesnotthrow_block_message)`.

`expect(object).toExist([message])`

Asserts the given `object` is truthy.

```
```js
expect('something truthy').toExist();
```
```

`expect(object).toNotExist([message])`

Asserts the given `object` is falsy.

```
```js
expect(null).toNotExist();
```
```

`expect(object).toBeA(constructor, [message])`

`expect(object).toBeAn(constructor, [message])`

Asserts the given `object` is an `instanceof constructor`.

```
```js
expect(new User).toBeA(User);
expect(new Asset).toBeAn(Asset);
```
```

`expect(object).toBeA(string, [message])`

Asserts the `typeof` the given `object` is `string`.

```
```js
expect(2).toBeA('number');
```
```

...

```
#### expect(string).toMatch(pattern, [message])
```

Asserts the given `string` matches `pattern`, which must be a `RegExp`.

```
```js
```

```
expect('a string').toMatch(/string/);
```

```
```
```

```
#### expect(number).toBeLessThan(value, [message])
```

```
#### expect(number).toBeFewerThan(value, [message])
```

Asserts the given `number` is less than `value`.

```
```js
```

```
expect(2).toBeLessThan(3);
```

```
```
```

```
#### expect(number).toBeGreaterThan(value, [message])
```

```
#### expect(number).toBeMoreThan(value, [message])
```

Asserts the given `number` is greater than `value`.

```
```js
```

```
expect(3).toBeGreaterThan(2);
```

```
```
```

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

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

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

```
```js
```

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

```
```
```

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

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

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

```
```js
```

```
expect([1, 2, 3]).toExclude(4);
```

```
```
```

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

Asserts the given `string` contains `value`.

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

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

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

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

Chaining Assertions

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

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

Installation

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

```
$ npm install expect
```

Or, include `dist/expect.min.js` in your page using a `

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

1.237.1 Available under license :

Expect

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

```
```js
expect(window.r).to.be(undefined);
expect({ a: 'b' }).to.eql({ a: 'b' })
expect(5).to.be.a('number');
expect([]).to.be.an('array');
expect(window).not.to.be.an(Image);
```
```

Features

- Cross-browser: works on IE6+, Firefox, Safari, Chrome, Opera.
- Compatible with all test frameworks.
- Node.JS ready (^require('expect.js')).
- Standalone. Single global with no prototype extensions or shims.

How to use

Node

Install it with NPM or add it to your `package.json`:

```
```
$ npm install expect.js
```
```

Then:

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

Browser

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

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

API

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

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

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

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

eql: asserts loose equality that works with objects

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

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

```
```js
// typeof with optional `array`
expect(5).to.be.a('number');
expect([]).to.be.an('array'); // works
```
```

```

expect([]).to.be.an('object'); // works too, since it uses `typeof`

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

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

```js
expect(program.version).to.match(/[0-9]+\.[0-9]+\.[0-9]+/);
...

contain: asserts indexOf for an array or string

```js
expect([1, 2]).to.contain(1);
expect('hello world').to.contain('world');
...

**length**: asserts array `.length`

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

empty: asserts that an array is empty or not

```js
expect([]).to.be.empty();
expect({}).to.be.empty();
expect({ length: 0, duck: 'typing' }).to.be.empty();
expect({ my: 'object' }).to.not.be.empty();
expect([1,2,3]).to.not.be.empty();
...

**property**: asserts presence of an own property (and value optionally)

```js
expect(window).to.have.property('expect')
expect(window).to.have.property('expect', expect)
expect({ a: 'b' }).to.have.property('a');
...

key/**keys**: asserts the presence of a key. Supports the `only` modifier

```



```

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

```

**toThrowException**/**toThrowError**: asserts that the `Function`` throws or not when called

```

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

```

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

```

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

```

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

```

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

```

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

```

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

```

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

```

```js
expect(0).to.be.below(3);
expect(1).to.be.lessThan(3);
```

```

**fail**: explicitly forces failure.

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

## Using with a test framework

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

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

**\*\*math.js\*\***

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

Our test file would look like this:

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

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

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

## Differences with should.js

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

## Running tests

Clone the repository and install the developer dependencies:

```
```
git clone git://github.com/LearnBoost/expect.js.git expect
```
```

```
cd expect && npm install
```

```
...
```

```
Node
```

```
`make test`
```

```
Browser
```

```
`make test-browser`
```

and point your browser(s) to `http://localhost:3000/test/`

```
Credits
```

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```
3rd-party
```

Heavily borrows from [should.js](<http://github.com/visionmedia/should.js>) by TJ Holowaychuk - MIT.

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```
{
 "name": "express-session",
 "version": "1.0.2",
 "author": "TJ Holowaychuk <tj@vision-media.ca> (http://tjholowaychuk.com)",
 "main": "./index.js",
 "dependencies": {
 "utils-merge": "1.0.0",
 "cookie": "0.1.0",
 "cookie-signature": "1.0.3",
 "uid2": "0.0.3",
 "buffer-crc32": "0.2.1",
 "debug": "0.7.4"
 },
 "devDependencies": {
 "mocha": "~1.17.0",
 "connect": "2.13.0",
 "supertest": "0.9.0",
 "should": "3.1.2",
 "cookie-parser": "1.0.0"
 },
 "scripts": {
 "test": "mocha --bail --ui bdd --reporter list -- test/*.js"
 },
 "license": "MIT"
}
```

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## 1.254 extend 1.2.1

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[![Build Status][1]][2] [![dependency status][9]][10] [![dev dependency status][11]][12]

# extend() for Node.js <sup>[![Version Badge][8]][3]</sup>

`node-extend` is a port of the classic extend() method from jQuery. It behaves as you expect. It is simple, tried and true.

#### ## Installation

This package is available on [npm][3] as: `extend`

```
``` sh
npm install extend
```
```

#### ## Usage

**Syntax:** extend **(***deep*, *target*, *object1*, [*objectN*]**)**

\*Extend one object with one or more others, returning the modified object.\*

Keep in mind that the target object will be modified, and will be returned from extend().

If a boolean true is specified as the first argument, extend performs a deep copy, recursively copying any objects it finds. Otherwise, the copy will share structure with the original object(s).

Undefined properties are not copied. However, properties inherited from the object's prototype will be copied over.

#### ### Arguments

\* *deep* \*Boolean\* (optional)

If set, the merge becomes recursive (i.e. deep copy).

\* *target* \*Object\*

The object to extend.

\* *object1* \*Object\*

The object that will be merged into the first.

\* `objectN` \*Object\* (Optional)

More objects to merge into the first.

## License

`node-extend` is licensed under the [MIT License][4].

## Acknowledgements

All credit to the jQuery authors for perfecting this amazing utility.

Ported to Node.js by [Stefan Thomas][5] with contributions by [Jonathan Buchanan][6] and [Jordan Harband][7].

[1]: <https://travis-ci.org/justmoon/node-extend.png>

[2]: <https://travis-ci.org/justmoon/node-extend>

[3]: <https://npmjs.org/package/extend>

[4]: <http://opensource.org/licenses/MIT>

[5]: <https://github.com/justmoon>

[6]: <https://github.com/insin>

[7]: <https://github.com/ljharb>

[8]: <http://vb.teelaun.ch/justmoon/node-extend.svg>

[9]: <https://david-dm.org/justmoon/node-extend.png>

[10]: <https://david-dm.org/justmoon/node-extend>

[11]: <https://david-dm.org/justmoon/node-extend/dev-status.png>

[12]: <https://david-dm.org/justmoon/node-extend#info=devDependencies>

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This package was debianized by Jacob Helwig <jacob@puppetlabs.com> on Sat, 11 Dec 2010 21:11:11 -0800

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## 1.261 finalhandler 0.3.4

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## 1.263 finished 1.2.2

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```
finished
```

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

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

```
Install
```

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

```
Uses
```

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

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

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

```
API
```

```
finished(response, callback)
```

```

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

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

```

### ### Examples

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

#### #### Node / Connect / Express

```

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

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

```

#### #### Koa

```

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

```

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## 1.269 formidable 1.0.11

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# Formidable

[![Build Status](https://secure.travis-ci.org/felixge/node-formidable.png?branch=master)](http://travis-ci.org/felixge/node-formidable)

## Purpose

A node.js module for parsing form data, especially file uploads.

## Current status

This module was developed for [Transloadit](http://transloadit.com/), a service focused on uploading and encoding images and videos. It has been battle-tested against hundreds of GB of file uploads from a large variety of clients and is considered production-ready.

## Features

- \* Fast (~500mb/sec), non-buffering multipart parser
- \* Automatically writing file uploads to disk
- \* Low memory footprint
- \* Graceful error handling
- \* Very high test coverage

## Changelog

### v1.0.9

- \* Emit progress when content length header parsed (Tim Koschützki)
- \* Fix Readme syntax due to GitHub changes (goob)

\* Replace references to old 'sys' module in Readme with 'util' (Peter Sugihara)

### v1.0.8

- \* Strip potentially unsafe characters when using `keepExtensions: true`.
- \* Switch to utest / urun for testing
- \* Add travis build

### v1.0.7

- \* Remove file from package that was causing problems when installing on windows. (#102)
- \* Fix typos in Readme (Jason Davies).

### v1.0.6

- \* Do not default to the default to the field name for file uploads where filename="".

### v1.0.5

- \* Support filename="" in multipart parts
- \* Explain unexpected end() errors in parser better

**Note:** Starting with this version, formidable emits 'file' events for empty file input fields. Previously those were incorrectly emitted as regular file input fields with value = "".

### v1.0.4

- \* Detect a good default tmp directory regardless of platform. (#88)

### v1.0.3

- \* Fix problems with utf8 characters (#84) / semicolons in filenames (#58)
- \* Small performance improvements
- \* New test suite and fixture system

### v1.0.2

- \* Exclude node\\_modules folder from git
- \* Implement new `aborted` event
- \* Fix files in example folder to work with recent node versions
- \* Make gently a devDependency

[See Commits](<https://github.com/felixge/node-formidable/compare/v1.0.1...v1.0.2>)

### v1.0.1

\* Fix package.json to refer to proper main directory. (#68, Dean Landolt)

[See Commits](https://github.com/felixge/node-formidable/compare/v1.0.0...v1.0.1)

### v1.0.0

\* Add support for multipart boundaries that are quoted strings. (Jeff Craig)

This marks the beginning of development on version 2.0 which will include several architectural improvements.

[See Commits](https://github.com/felixge/node-formidable/compare/v0.9.11...v1.0.0)

### v0.9.11

\* Emit `progress` event when receiving data, regardless of parsing it. (Tim Koschützki)

\* Use [W3C FileAPI Draft](http://dev.w3.org/2006/webapi/FileAPI/) properties for File class

**\*\*Important:\*\*** The old property names of the File class will be removed in a future release.

[See Commits](https://github.com/felixge/node-formidable/compare/v0.9.10...v0.9.11)

### Older releases

These releases were done before starting to maintain the above Changelog:

\* [v0.9.10](https://github.com/felixge/node-formidable/compare/v0.9.9...v0.9.10)

\* [v0.9.9](https://github.com/felixge/node-formidable/compare/v0.9.8...v0.9.9)

\* [v0.9.8](https://github.com/felixge/node-formidable/compare/v0.9.7...v0.9.8)

\* [v0.9.7](https://github.com/felixge/node-formidable/compare/v0.9.6...v0.9.7)

\* [v0.9.6](https://github.com/felixge/node-formidable/compare/v0.9.5...v0.9.6)

\* [v0.9.5](https://github.com/felixge/node-formidable/compare/v0.9.4...v0.9.5)

\* [v0.9.4](https://github.com/felixge/node-formidable/compare/v0.9.3...v0.9.4)

\* [v0.9.3](https://github.com/felixge/node-formidable/compare/v0.9.2...v0.9.3)

\* [v0.9.2](https://github.com/felixge/node-formidable/compare/v0.9.1...v0.9.2)

\* [v0.9.1](https://github.com/felixge/node-formidable/compare/v0.9.0...v0.9.1)

\* [v0.9.0](https://github.com/felixge/node-formidable/compare/v0.8.0...v0.9.0)

\* [v0.9.0](https://github.com/felixge/node-formidable/compare/v0.8.0...v0.9.0)

\* [v0.9.0](https://github.com/felixge/node-formidable/compare/v0.8.0...v0.9.0)

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\* [v0.9.0](https://github.com/felixge/node-formidable/compare/v0.8.0...v0.9.0)

\* [v0.9.0](https://github.com/felixge/node-formidable/compare/v0.8.0...v0.9.0)

\* [v0.9.0](https://github.com/felixge/node-formidable/compare/v0.8.0...v0.9.0)

\* [v0.1.0](https://github.com/felixge/node-formidable/commits/v0.1.0)

## Installation

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

```
npm install formidable@latest
```

Manually:

```
git clone git://github.com/felixge/node-formidable.git formidable
vim my.js
var formidable = require('./formidable');
```

Note: Formidable requires [gently](http://github.com/felixge/node-gently) to run the unit tests, but you won't need it for just using the library.

## Example

Parse an incoming file upload.

```
var formidable = require('formidable'),
 http = require('http'),

 util = require('util');

http.createServer(function(req, res) {
 if (req.url == '/upload' && req.method.toLowerCase() == 'post') {
 // parse a file upload
 var form = new formidable.IncomingForm();
 form.parse(req, function(err, fields, files) {
 res.writeHead(200, {'content-type': 'text/plain'});
 res.write('received upload:\n\n');
 res.end(util.inspect({fields: fields, files: files}));
 });
 return;
 }

 // show a file upload form
 res.writeHead(200, {'content-type': 'text/html'});
 res.end(
 '<form action="/upload" enctype="multipart/form-data" method="post">'+
 '<input type="text" name="title">
'+
 '<input type="file" name="upload" multiple="multiple">
'+
 '<input type="submit" value="Upload">'+
 '</form>'
);
}).listen(80);
```

## API

### formidable.IncomingForm

`__new formidable.IncomingForm()`

Creates a new incoming form.

`__incomingForm.encoding = 'utf-8'`

The encoding to use for incoming form fields.

`__incomingForm.uploadDir = process.env.TMP || '/tmp' || process.cwd()`

The directory for placing file uploads in. You can move them later on using `fs.rename()`. The default directory is picked at module load time depending on the first existing directory from those listed above.

`__incomingForm.keepExtensions = false`

If you want the files written to `incomingForm.uploadDir` to include the extensions of the original files, set this property to `true`.

`__incomingForm.type`

Either `'multipart'` or `'urlencoded'` depending on the incoming request.

`__incomingForm.maxFieldsSize = 2 * 1024 * 1024`

Limits the amount of memory a field (not file) can allocate in bytes. If this value is exceeded, an `'error'` event is emitted. The default size is 2MB.

`__incomingForm.hash = false`

If you want checksums calculated for incoming files, set this to either `'sha1'` or `'md5'`.

`__incomingForm.bytesReceived`

The amount of bytes received for this form so far.

`__incomingForm.bytesExpected`

The expected number of bytes in this form.

`__incomingForm.parse(request, [cb])`

Parses an incoming node.js `request` containing form data. If `cb` is provided, all fields and files are collected and passed to the callback:



```
incomingForm.parse(req, function(err, fields, files) {
 // ...
});
```

`__incomingForm.onPart(part)__`

You may overwrite this method if you are interested in directly accessing the multipart stream. Doing so will disable any ``field` / `file`` events processing which would occur otherwise, making you fully responsible for handling the processing.

```
incomingForm.onPart = function(part) {
 part.addListener('data', function() {
 // ...
 });
}
```

If you want to use formidable to only handle certain parts for you, you can do so:

```
incomingForm.onPart = function(part) {
 if (!part.filename) {
 // let formidable handle all non-file parts
 incomingForm.handlePart(part);
 }
}
```

Check the code in this method for further inspiration.

`__Event: 'progress' (bytesReceived, bytesExpected)__`

Emitted after each incoming chunk of data that has been parsed. Can be used to roll your own progress bar.

`__Event: 'field' (name, value)__`

Emitted whenever a field / value pair has been received.

`__Event: 'fileBegin' (name, file)__`

Emitted whenever a new file is detected in the upload stream. Use this even if you want to stream the file to somewhere else while buffering the upload on the file system.

`__Event: 'file' (name, file)__`

Emitted whenever a field / file pair has been received. ``file`` is an instance of ``File``.

`__Event: 'error' (err)__`

Emitted when there is an error processing the incoming form. A request that experiences an error is automatically

paused, you will have to manually call `request.resume()` if you want the request to continue firing `'data'` events.

`__Event: 'aborted'__`

Emitted when the request was aborted by the user. Right now this can be due to a `'timeout'` or `'close'` event on the socket. In the future there will be a separate `'timeout'` event (needs a change in the node core).

`__Event: 'end' ()__`

Emitted when the entire request has been received, and all contained files have finished flushing to disk. This is a great place for you to send your response.

### formidable.File

`__file.size = 0__`

The size of the uploaded file in bytes. If the file is still being uploaded (see `'fileBegin'` event), this property says how many bytes of the file have been written to disk yet.

`__file.path = null__`

The path this file is being written to. You can modify this in the `'fileBegin'` event in case you are unhappy with the way formidable generates a temporary path for your files.

`__file.name = null__`

The name this file had according to the uploading client.

`__file.type = null__`

The mime type of this file, according to the uploading client.

`__file.lastModifiedDate = null__`

A date object (or `null`) containing the time this file was last written to. Mostly here for compatibility with the [W3C File API Draft](<http://dev.w3.org/2006/webapi/FileAPI/>).

`__file.hash = null__`

If hash calculation was set, you can read the hex digest out of this var.

## License

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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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## 1.274 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  
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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```
"author": "TJ Holowaychuk <tj@vision-media.ca> (http://tjholowaychuk.com)",
```

## 1.276 fs 0.0.2

### 1.276.1 Available under license :

```
{
 "name": "fs",
 "version": "0.0.2",
 "description": "",
 "main": "index.js",
 "scripts": {
 "test": "echo \"Error: no test specified\" && exit 1"
 },
 "author": "",
 "license": "MIT"
```

```
}
```

## 1.277 fs-ext 0.3.2

### 1.277.1 Available under license :

```
{
 "author": "Matt Sergeant <helpme@gmail.com> (http://baudehlo.wordpress.com/)",
 "name": "fs-ext",
 "description": "Extensions to core 'fs' module.",
 "keywords": ["fs", "filesystem", "flock", "seek"],
 "version": "0.3.2",
 "homepage": "https://github.com/baudehlo/node-fs-ext/",
 "repository": {
 "type": "git",
 "url": "git://github.com/baudehlo/node-fs-ext.git"
 },
 "main": "fs-ext.js",
 "engines": {
 "node": ">= v0.8.0"
 },
 "dependencies": { },
 "licenses": [{
 "type": "MIT"
 }],
 "bugs": {
 "mail": "helpme@gmail.com",
 "web": "https://github.com/baudehlo/node-fs-ext/issues"
 },
 "scripts": {
 "install": "node-gyp configure build",
 "test": "./run_tests" }
}
```

## 1.278 fs-ext 0.4.4

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## 1.279 fs-extra 0.16.5

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## 1.280 generate-function 2.0.0

### 1.280.1 Available under license :

# generate-function

Module that helps you write generated functions in Node

...

npm install generate-function

...



[![build status](http://img.shields.io/travis/mafintosh/generate-function.svg?style=flat)](http://travis-ci.org/mafintosh/generate-function)

## ## Disclaimer

Writing code that generates code is hard.

You should only use this if you really, really, really need this for performance reasons (like schema validators / parsers etc).

## ## Usage

```
``` js
var genfun = require('generate-function')

var addNumber = function(val) {
  var fn = genfun()
  ('function add(n) {')
    ('return n + %d', val) // supports format strings to insert values
  ('}')

  return fn.toFunction() // will compile the function
}

var add2 = addNumber(2)

console.log('1+2=', add2(1))
console.log(add2.toString()) // prints the generated function
```
```

If you need to close over variables in your generated function pass them to `toFunction(scope)`

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

var addAndMultiplyNumber = function(val) {
  var fn = genfun()
  ('function(n) {')
    ('if (typeof n !== "number") {') // ending a line with { will indent the source
      ('throw new Error("argument should be a number")')
    ('}')
    ('var result = multiply(%d, n+%d)', val, val)
  ('return result')
  ('}')

  // use fn.toString() if you want to see the generated source
}
```

```
return fn.toFunction({
  multiply: multiply
})
}

var addAndMultiply2 = addAndMultiplyNumber(2)

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

```

Related

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

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MIT

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)](https://travis-ci.org/sindresorhus/get-stdin)
```

```
> Easier stdin
```

```
## Install
```

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

```
## Usage
```

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

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

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

```
## API
```

```
### stdin(callback)
```

Get `stdin` as a string.

```
### stdin.buffer(callback)
```

Get `stdin` as a buffer.

```
## License
```

1.283 glob 3.2.3

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1.286 gmp_GPLv3 5.1.1 :5.e17

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Version 3, 29 June 2007

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1.287 gobject-introspection_LGPLv2 1.36.0

:4.e17

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

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@end iftex
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```

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

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

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1.290 graceful-fs 2.0.3

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1.291 graceful-fs 3.0.6

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1.292 graceful-readlink 1.0.1

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1.293 growl 1.7.0

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1.294 gyp 0.1 :0.11.1617svn.el7

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1.295 handlebars 1.3.0

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1.296 har-validator 1.7.1

1.296.1 Available under license :

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

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

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

```
## Install
```

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

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

```
## Usage
```

```
```
```

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

```
Options:
```

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

```
...
```

```
Example
```

```
```shell
```

```
har-validator har.json
```

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

```
```
```

```
API
```

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

Returns `true` or `false`.

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

a full [HAR](<http://www.softwareishard.com/blog/har-12-spec/>) object

- **callback**: `Function`

gets two arguments (err, valid)

```
```js
```

```
var HAR = require('./har.json');
```

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

```
validate(HAR, function (e, valid) {
```

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

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

```
});
```

```
```
```

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

Returns `true` or `false`.

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

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

- **callback**: `Function`

gets two arguments (err, valid)

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

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

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

Returns `true` or `false`.

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

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

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

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

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

Returns `true` or `false`.

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

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

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

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

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

Returns `true` or `false`.

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

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

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

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

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

Returns `true` or `false`.

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

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

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

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

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

Returns `true` or `false`.

- **\*\*data\*\***: `Object` \*(Required)\*  
a [creator](http://www.softwareishard.com/blog/har-12-spec/#creator) object

- **\*\*callback\*\***: `Function`  
gets two arguments (err, valid)

```
```js
var validate = require('har-validator');

validate.creator(data, function (e, valid) {
  if (e) console.log(e.errors)
});
```
```

...

### Validate.entry(data [, callback])

Returns `true` or `false`.

- **data**: `Object` \*(Required)\*

an [entry](http://www.softwareishard.com/blog/har-12-spec/#entries) object

- **callback**: `Function`

gets two arguments (err, valid)

```js

```
var validate = require('har-validator');
```

```
validate.entry(data, function (e, valid) {
```

```
  if (e) console.log(e.errors)
```

```
});
```

...

Validate.log(data [, callback])

alias of [Validate(data [, callback])](#validate-data-callback-)

Validate.page(data [, callback])

Returns `true` or `false`.

- **data**: `Object` *(Required)*

a [page](http://www.softwareishard.com/blog/har-12-spec/#pages) object

- **callback**: `Function`

gets two arguments (err, valid)

```js

```
var validate = require('har-validator');
```

```
validate.page(data, function (e, valid) {
```

```
 if (e) console.log(e.errors)
```

```
});
```

...

### Validate.pageTimings(data [, callback])

Returns `true` or `false`.

- **data**: `Object` \*(Required)\*

a [pageTimings](http://www.softwareishard.com/blog/har-12-spec/#pageTimings) object

```

- callback: `Function`
 gets two arguments (err, valid)

```js
var validate = require('har-validator');

validate.pageTimings(data, function (e, valid) {
  if (e) console.log(e.errors)
});
```

Validate.postData(data [, callback])

Returns `true` or `false`.

- data: `Object` *(Required)*
 a [postData](http://www.softwareishard.com/blog/har-12-spec/#postData) object

- callback: `Function`
 gets two arguments (err, valid)

```js
var validate = require('har-validator');

validate.postData(data, function (e, valid) {
  if (e) console.log(e.errors)
});
```

Validate.record(data [, callback])

Returns `true` or `false`.

- data: `Object` *(Required)*
 a [record](http://www.softwareishard.com/blog/har-12-spec/#headers) object

- callback: `Function`
 gets two arguments (err, valid)

```js
var validate = require('har-validator');

validate.record(data, function (e, valid) {
  if (e) console.log(e.errors)
});
```

```

```
Validate.request(data [, callback])
```

Returns `true` or `false`.

- **data**: `Object` \*(Required)\*

a [request](http://www.softwareishard.com/blog/har-12-spec/#request) object

- **callback**: `Function`

gets two arguments (err, valid)

```
```js
```

```
var validate = require('har-validator');
```

```
validate.request(data, function (e, valid) {
```

```
  if (e) console.log(e.errors)
```

```
});
```

```
```
```

```
Validate.response(data [, callback])
```

Returns `true` or `false`.

- **data**: `Object` \*(Required)\*

a [response](http://www.softwareishard.com/blog/har-12-spec/#response) object

- **callback**: `Function`

gets two arguments (err, valid)

```
```js
```

```
var validate = require('har-validator');
```

```
validate.cacheEntry(data, function (e, valid) {
```

```
  if (e) console.log(e.errors)
```

```
});
```

```
```
```

```
Validate.timings(data [, callback])
```

Returns `true` or `false`.

- **data**: `Object` \*(Required)\*

a [timings](http://www.softwareishard.com/blog/har-12-spec/#timings) object

- **callback**: `Function`

gets two arguments (err, valid)

```
```js
```

```
var validate = require('har-validator');
```

```
validate.timings(data, function (e, valid) {  
  if (e) console.log(e.errors)  
});  
...  

```

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```

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1.297 has-ansi 1.0.3

1.297.1 Available under license :

has-ansi [![Build Status](https://travis-ci.org/sindresorhus/has-ansi.svg?branch=master)](https://travis-ci.org/sindresorhus/has-ansi)

> 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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1.298 hashmap 1.0.0

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1.299 hawk 2.3.1

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1.303 hiera 1.3.4 :1.e17

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1.304 hoek 0.9.1

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1.308 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
 if (this.isValid()) next(); // next() passes control to the next middleware
 // or to the target method itself
 else next(new Error("Invalid")); // next(error) invokes an error callback
});

// Define a middleware function to be invoked after 'save'
Document.post('save', function createJob (next) {
 this.sendToBackgroundQueue();
 next();
});
...

```

If you already have defined `Document.prototype` methods for which you want pres and posts, then you do not need to explicitly invoke `Document.hook(...)`. Invoking `Document.pre(methodName, fn)` or `Document.post(methodName, fn)` will automatically and lazily change `Document.prototype[methodName]` so that it plays well with `hooks`. An equivalent way to implement the previous example is:

```

```javascript
var hooks = require('hooks')
, Document = require('./path/to/some/document/constructor');

// Add hooks' methods: `hook`, `pre`, and `post`
for (var k in hooks) {
  Document[k] = hooks[k];
}

Document.prototype.save = function () {
  // ...
};

// Define a middleware function to be invoked before 'save'
Document.pre('save', function validate (next) {
  // The `this` context inside of `pre` and `post` functions
  // is the Document instance
  if (this.isValid()) next(); // next() passes control to the next middleware
                                // or to the target method itself
  else next(new Error("Invalid")); // next(error) invokes an error callback
});

// Define a middleware function to be invoked after 'save'
Document.post('save', function createJob (next) {
  this.sendToBackgroundQueue();
  next();
});
...

```

Pres and Posts as Middleware

We structure pres and posts as middleware to give you maximum flexibility:

1. You can define **multiple** pres (or posts) for a single method.
2. These pres (or posts) are then executed as a chain of methods.
3. Any functions in this middleware chain can choose to halt the chain's execution by `next`ing an Error from that middleware function. If this occurs, then none of the other middleware in the chain will execute, and the main method (e.g., `save`) will not execute. This is nice, for example, when we don't want a document to save if it is invalid.

Defining multiple pres (or posts)

`pre` and `post` are chainable, so you can define multiple via:

```
```javascript
Document.pre('save', function (next) {
 console.log("hello");
 next();
}).pre('save', function (next) {
 console.log("world");
 next();
});
```

```
Document.post('save', function (next) {
 console.log("hello");
 next();
}).post('save', function (next) {
 console.log("world");
 next();
});
```
```

As soon as one pre finishes executing, the next one will be invoked, and so on.

Error Handling

You can define a default error handler by passing a 2nd function as the 3rd argument to `hook`:

```
```javascript
Document.hook('set', function (path, val) {
 this[path] = val;
}, function (err) {
 // Handler the error here
 console.error(err);
});
```
```

Then, we can pass errors to this handler from a pre or post middleware function:

```
```javascript
Document.pre('set', function (next, path, val) {
 next(new Error());
});
```

```
});
```
```

If you do not set up a default handler, then `hooks` makes the default handler that just throws the `Error`.

The default error handler can be over-rided on a per method invocation basis.

If the main method that you are surrounding with pre and post middleware expects its last argument to be a function with callback signature `function (error, ...)`, then that callback becomes the error handler, over-riding the default error handler you may have set up.

```
```javascript  
Document.hook('save', function (callback) {
 // Save logic goes here
 ...
});

var doc = new Document();
doc.save(function (err, saved) {
 // We can pass err via `next` in any of our pre or post middleware functions
 if (err) console.error(err);

 // Rest of callback logic follows ...
});
```
```

Mutating Arguments via Middleware

`pre` and `post` middleware can also accept the intended arguments for the method they augment. This is useful if you want to mutate the arguments before passing them along to the next middleware and eventually pass a mutated arguments list to the main method itself.

As a simple example, let's define a method `set` that just sets a key, value pair.

If we want to namespace the key, we can do so by adding a `pre` middleware hook that runs before `set`, alters the arguments by namespaceing the `key` argument, and passes them onto `set`:

```
```javascript  
Document.hook('set', function (key, val) {
 this[key] = val;
});
Document.pre('set', function (next, key, val) {
 next('namespace-' + key, val);
});
var doc = new Document();
doc.set('hello', 'world');
console.log(doc.hello); // undefined
console.log(doc['namespace-hello']); // 'world'
```
```

As you can see above, we pass arguments via `next`.

If you are not mutating the arguments, then you can pass zero arguments to `next`, and the next middleware function will still have access to the arguments.

```
```javascript
Document.hook('set', function (key, val) {
 this[key] = val;
});
Document.pre('set', function (next, key, val) {
 // I have access to key and val here
 next(); // We don't need to pass anything to next
});
Document.pre('set', function (next, key, val) {
 // And I still have access to the original key and val here
 next();
});
```
```

Finally, you can add arguments that downstream middleware can also see:

```
```javascript
// Note that in the definition of `set`, there is no 3rd argument, options
Document.hook('set', function (key, val) {
 // But...
 var options = arguments[2]; // ...I have access to an options argument
 // because of pre function pre2 (defined below)
 console.log(options); // '{debug: true}'
 this[key] = val;
});
Document.pre('set', function pre1 (next, key, val) {
 // I only have access to key and val arguments
 console.log(arguments.length); // 3
 next(key, val, {debug: true});
});
Document.pre('set', function pre2 (next, key, val, options) {
 console.log(arguments.length); // 4
 console.log(options); // '{ debug: true}'
 next();
});
Document.pre('set', function pre3 (next, key, val, options) {
 // I still have access to key, val, AND the options argument introduced via the preceding middleware
 console.log(arguments.length); // 4
 console.log(options); // '{ debug: true}'
 next();
});
```
```

```
var doc = new Document()
doc.set('hey', 'there');
...

```

Post middleware

Post middleware intercepts the callback originally sent to the asynchronous function you have hooked to.

This means that the following chain of execution will occur in a typical `save` operation:

(1) doc.save -> (2) pre --(next)--> (3) save calls back -> (4) post --(next)--> (5) targetFn

Illustrated below:

```
...
Document.pre('save', function (next) {
  this.key = "value";
  next();
});
// Post handler occurs before `set` calls back. This is useful if we need to grab something
// async before `set` finishes.
Document.post('set', function (next) {
  var me = this;
  getSomethingAsync(function(value){ // let's assume it returns "Hello Async"
    me.key2 = value;
    next();
  });
});

var doc = new Document();
doc.save(function(err){
  console.log(this.key); // "value" - this value was saved
  console.log(this.key2); // "Hello Async" - this value was *not* saved
})
...

```

Post middleware must call `next()` or execution will stop.

Parallel `pre` middleware

All middleware up to this point has been "serial" middleware -- i.e., middleware whose logic is executed as a serial chain.

Some scenarios call for parallel middleware -- i.e., middleware that can wait for several asynchronous services at once to respond.

For instance, you may only want to save a Document only after you have checked that the Document is valid according to two different remote services.

We accomplish asynchronous middleware by adding a second kind of flow control callback (the only flow control callback so far has been `next`), called `done`.

- `next` passes control to the next middleware in the chain
- `done` keeps track of how many parallel middleware have invoked `done` and passes control to the target method when ALL parallel middleware have invoked `done`. If you pass an `Error` to `done`, then the error is handled, and the main method that is wrapped by pres and posts will not get invoked.

We declare pre middleware that is parallel by passing a 3rd boolean argument to our `pre` definition method.

We illustrate via the parallel validation example mentioned above:

```
```javascript
Document.hook('save', function targetFn (callback) {
 // Save logic goes here
 // ...
 // This only gets run once the two `done`s are both invoked via preOne and preTwo.
});

 // true marks this as parallel middleware
Document.pre('save', true, function preOne (next, doneOne, callback) {
 remoteServiceOne.validate(this.serialize(), function (err, isValid) {
 // The code in here will probably be run after the `next` below this block
 // and could possibly be run after the console.log("Hola") in `preTwo
 if (err) return doneOne(err);
 if (isValid) doneOne();
 });
 next(); // Pass control to the next middleware
});

// We will suppose that we need 2 different remote services to validate our document
Document.pre('save', true, function preTwo (next, doneTwo, callback) {
 remoteServiceTwo.validate(this.serialize(), function (err, isValid) {
 if (err) return doneTwo(err);
 if (isValid) doneTwo();
 });
 next();
});

// While preOne and preTwo are parallel, preThree is a serial pre middleware
Document.pre('save', function preThree (next, callback) {
 next();
});
```
```

```

var doc = new Document();
doc.save( function (err, doc) {
  // Do stuff with the saved doc here...
});
...

```

In the above example, flow control may happen in the following way:

```

(1) doc.save -> (2) preOne --(next)--> (3) preTwo --(next)--> (4) preThree --(next)--> (wait for dones to invoke) ->
(5) doneTwo -> (6) doneOne -> (7) targetFn

```

So what's happening is that:

1. You call `doc.save(...)`
2. First, your `preOne` middleware gets executed. It makes a remote call to the validation service and `next()`'s to the `preTwo` middleware.
3. Now, your `preTwo` middleware gets executed. It makes a remote call to another validation service and `next()`'s to the `preThree` middleware.
4. Your `preThree` middleware gets executed. It immediately `next()`'s. But nothing else gets executing until both `doneOne` and `doneTwo` are invoked inside the callbacks handling the response from the two validation services.
5. We will suppose that validation `remoteServiceTwo` returns a response to us first. In this case, we call `doneTwo` inside the callback to `remoteServiceTwo`.
6. Some fractions of a second later, `remoteServiceOne` returns a response to us. In this case, we call `doneOne` inside the callback to `remoteServiceOne`.
7. `hooks` implementation keeps track of how many parallel middleware has been defined per target function. It detects that both asynchronous pre middlewares (`preOne` and `preTwo`) have finally called their `done` functions (`doneOne` and `doneTwo`), so the implementation finally invokes our `targetFn` (i.e., our core `save` business logic).

Removing Pres

You can remove a particular pre associated with a hook:

```

Document.pre('set', someFn);
Document.removePre('set', someFn);

```

And you can also remove all pres associated with a hook:

```

Document.removePre('set'); // Removes all declared `pre`s on the hook 'set'

```

Tests

To run the tests:

```

make test

```

Contributors

- [Brian Noguchi](https://github.com/bnoguchi)

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Author
Brian Noguchi

1.309 hooks 0.2.1

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hooks

=====

Add pre and post middleware hooks to your JavaScript methods.

Installation
npm install hooks

Motivation
Suppose you have a JavaScript object with a `save` method.

It would be nice to be able to declare code that runs before `save` and after `save`. For example, you might want to run validation code before every `save`, and you might want to dispatch a job to a background job queue after `save`.

One might have an urge to hard code this all into `save`, but that turns out to couple all these pieces of functionality (validation, save, and job creation) more tightly than is necessary. For example, what if someone does not want to do background job creation after the logical save?

It is nicer to tack on functionality using what we call `pre` and `post` hooks. These are functions that you define and that you direct to execute before or after particular methods.

Example
We can use `hooks` to add validation and background jobs in the following way:

```
var hooks = require('hooks')
    , Document = require('./path/to/some/document/constructor');

// Add hooks' methods: `hook`, `pre`, and `post`
for (var k in hooks) {
  Document[k] = hooks[k];
}

// Define a new method that is able to invoke pre and post middleware
Document.hook('save', Document.prototype.save);
```



```

// Define a middleware function to be invoked before 'save'
Document.pre('save', function validate (next) {
  // The `this` context inside of `pre` and `post` functions
  // is the Document instance
  if (this.isValid()) next(); // next() passes control to the next middleware
                               // or to the target method itself
  else next(new Error("Invalid")); // next(error) invokes an error callback
});

// Define a middleware function to be invoked after 'save'
Document.post('save', function createJob () {
  this.sendToBackgroundQueue();
});

```

If you already have defined `Document.prototype` methods for which you want pres and posts, then you do not need to explicitly invoke `Document.hook(...)`. Invoking `Document.pre(methodName, fn)` or `Document.post(methodName, fn)` will automatically and lazily change `Document.prototype[methodName]` so that it plays well with `hooks`. An equivalent way to implement the previous example is:

```

```javascript
var hooks = require('hooks')
, Document = require('./path/to/some/document/constructor');

// Add hooks' methods: `hook`, `pre`, and `post`
for (var k in hooks) {
 Document[k] = hooks[k];
}

Document.prototype.save = function () {
 // ...
};

// Define a middleware function to be invoked before 'save'
Document.pre('save', function validate (next) {
 // The `this` context inside of `pre` and `post` functions
 // is the Document instance
 if (this.isValid()) next(); // next() passes control to the next middleware
 // or to the target method itself
 else next(new Error("Invalid")); // next(error) invokes an error callback
});

// Define a middleware function to be invoked after 'save'
Document.post('save', function createJob () {
 this.sendToBackgroundQueue();
});
```

## Pres and Posts as Middleware

```

We structure pres and posts as middleware to give you maximum flexibility:

1. You can define **multiple** pres (or posts) for a single method.
2. These pres (or posts) are then executed as a chain of methods.
3. Any functions in this middleware chain can choose to halt the chain's execution by `next`'ing an `Error` from that middleware function. If this occurs, then none of the other middleware in the chain will execute, and the main method (e.g., `save`) will not execute. This is nice, for example, when we don't want a document to save if it is invalid.

Defining multiple pres (or posts)

`pre` is chainable, so you can define multiple pres via:

```
Document.pre('save', function (next, halt) {
  console.log("hello");
}).pre('save', function (next, halt) {
  console.log("world");
});
```

As soon as one pre finishes executing, the next one will be invoked, and so on.

Error Handling

You can define a default error handler by passing a 2nd function as the 3rd argument to `hook`:

```
Document.hook('set', function (path, val) {
  this[path] = val;
}, function (err) {
  // Handler the error here
  console.error(err);
});
```

Then, we can pass errors to this handler from a pre or post middleware function:

```
Document.pre('set', function (next, path, val) {
  next(new Error());
});
```

If you do not set up a default handler, then `hooks` makes the default handler that just throws the `Error`.

The default error handler can be over-rided on a per method invocation basis.

If the main method that you are surrounding with pre and post middleware expects its last argument to be a function with callback signature `function (error, ...)`, then that callback becomes the error handler, over-riding the default error handler you may have set up.

```
```javascript
Document.hook('save', function (callback) {
 // Save logic goes here
 ...
});
```

```
var doc = new Document();
```

```

doc.save(function (err, saved) {
 // We can pass err via `next` in any of our pre or post middleware functions
 if (err) console.error(err);

 // Rest of callback logic follows ...
});
...

```

### ## Mutating Arguments via Middleware

`pre` and `post` middleware can also accept the intended arguments for the method they augment. This is useful if you want to mutate the arguments before passing them along to the next middleware and eventually pass a mutated arguments list to the main method itself.

As a simple example, let's define a method `set` that just sets a key, value pair.

If we want to namespace the key, we can do so by adding a `pre` middleware hook that runs before `set`, alters the arguments by namespacing the `key` argument, and passes them onto `set`:

```

Document.hook('set', function (key, val) {
 this[key] = val;
});
Document.pre('set', function (next, key, val) {
 next('namespace-' + key, val);
});
var doc = new Document();
doc.set('hello', 'world');
console.log(doc.hello); // undefined
console.log(doc['namespace-hello']); // 'world'

```

As you can see above, we pass arguments via `next`.

If you are not mutating the arguments, then you can pass zero arguments to `next`, and the next middleware function will still have access to the arguments.

```

Document.hook('set', function (key, val) {
 this[key] = val;
});
Document.pre('set', function (next, key, val) {
 // I have access to key and val here
 next(); // We don't need to pass anything to next
});
Document.pre('set', function (next, key, val) {
 // And I still have access to the original key and val here
 next();
});

```

Finally, you can add arguments that downstream middleware can also see:

```

// Note that in the definition of `set`, there is no 3rd argument, options
Document.hook('set', function (key, val) {
 // But...
 var options = arguments[2]; // ...I have access to an options argument
 // because of pre function pre2 (defined below)
 console.log(options); // '{ debug: true}'
 this[key] = val;
});
Document.pre('set', function pre1 (next, key, val) {
 // I only have access to key and val arguments
 console.log(arguments.length); // 3
 next(key, val, { debug: true });
});
Document.pre('set', function pre2 (next, key, val, options) {
 console.log(arguments.length); // 4
 console.log(options); // '{ debug: true}'
 next();
});
Document.pre('set', function pre3 (next, key, val, options) {
 // I still have access to key, val, AND the options argument introduced via the preceding middleware
 console.log(arguments.length); // 4
 console.log(options); // '{ debug: true}'
 next();
});

var doc = new Document()
doc.set('hey', 'there');

```

### ## Parallel `pre` middleware

All middleware up to this point has been "serial" middleware -- i.e., middleware whose logic is executed as a serial chain.

Some scenarios call for parallel middleware -- i.e., middleware that can wait for several asynchronous services at once to respond.

For instance, you may only want to save a Document only after you have checked that the Document is valid according to two different remote services.

We accomplish asynchronous middleware by adding a second kind of flow control callback (the only flow control callback so far has been `next`), called `done`.

- `next` passes control to the next middleware in the chain
- `done` keeps track of how many parallel middleware have invoked `done` and passes control to the target method when ALL parallel middleware have invoked `done`. If you pass an `Error` to `done`, then the error is handled, and the main method that is wrapped by pres and posts will not get invoked.

We declare pre middleware that is parallel by passing a 3rd boolean argument to our `pre` definition method.

We illustrate via the parallel validation example mentioned above:

```
Document.hook('save', function targetFn (callback) {
 // Save logic goes here
 // ...
 // This only gets run once the two `done`s are both invoked via preOne and preTwo.
});

// true marks this as parallel middleware
Document.pre('save', true, function preOne (next, doneOne, callback) {
 remoteServiceOne.validate(this.serialize(), function (err, isValid) {
 // The code in here will probably be run after the `next` below this block
 // and could possibly be run after the console.log("Hola") in `preTwo
 if (err) return doneOne(err);
 if (isValid) doneOne();
 });
 next(); // Pass control to the next middleware
});

// We will suppose that we need 2 different remote services to validate our document
Document.pre('save', true, function preTwo (next, doneTwo, callback) {
 remoteServiceTwo.validate(this.serialize(), function (err, isValid) {
 if (err) return doneTwo(err);
 if (isValid) doneTwo();
 });
 next();
});

// While preOne and preTwo are parallel, preThree is a serial pre middleware
Document.pre('save', function preThree (next, callback) {
 next();
});

var doc = new Document();
doc.save(function (err, doc) {
 // Do stuff with the saved doc here...
});
```

In the above example, flow control may happen in the following way:

(1) doc.save -> (2) preOne --(next)--> (3) preTwo --(next)--> (4) preThree --(next)--> (wait for dones to invoke) -> (5) doneTwo -> (6) doneOne -> (7) targetFn

So what's happening is that:

1. You call `doc.save(...)`
2. First, your `preOne` middleware gets executed. It makes a remote call to the validation service and `next()`'s to the `preTwo` middleware.
3. Now, your `preTwo` middleware gets executed. It makes a remote call to another validation service and `next()`'s to the `preThree` middleware.
4. Your `preThree` middleware gets executed. It immediately `next()`'s. But nothing else gets executing until both `doneOne` and `doneTwo` are invoked inside the callbacks handling the response from the two validation services.
5. We will suppose that validation `remoteServiceTwo` returns a response to us first. In this case, we call `doneTwo` inside the callback to `remoteServiceTwo`.
6. Some fractions of a second later, `remoteServiceOne` returns a response to us. In this case, we call `doneOne` inside the callback to `remoteServiceOne`.
7. `hooks` implementation keeps track of how many parallel middleware has been defined per target function. It detects that both asynchronous pre middlewares (`preOne` and `preTwo`) have finally called their `done` functions (`doneOne` and `doneTwo`), so the implementation finally invokes our `targetFn` (i.e., our core `save` business logic).

### ## Removing Pres

You can remove a particular pre associated with a hook:

```
Document.pre('set', someFn);
Document.removePre('set', someFn);
```

And you can also remove all pres associated with a hook:

```
Document.removePre('set'); // Removes all declared `pre`s on the hook 'set'
```

### ## Tests

To run the tests:

```
make test
```

### ### Contributors

- [Brian Noguchi](https://github.com/bnoguchi)

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### ### Author

Brian Noguchi

## 1.310 htmlparser 1.7.6

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## 1.311 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"
```

}

## 1.312 http-errors 1.3.1

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## 1.313 http-parser 2.0

:4.20121128gitcd01361.e17

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node-http-proxy

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### 1.315.1 Available under license :

node-http-proxy

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## 1.316 http-proxy 1.1.2

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node-http-proxy

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# 1.317 http-signature 0.11.0

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# 1.319 i 0.3.2

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# 1.333 is-array 1.0.1

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```



```

# isArray

Check if the given `value` is an `Array`.

## Installation

```
$ component install yields/isArray
```

## API

### isArray(val)

```
```javascript  
isArray(arguments);  
// > false  
isArray();  
// > false  
isArray([]);  
// > true  
```
```

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# 1.334 is-my-json-valid 2.12.0

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## 1.341 ivykis 0.36.2 :2.e17

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## 1.346 jison 0.3.12

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Jison

=====

\* [issues](<http://github.com/zaach/jison/issues>)

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[![build status](<https://secure.travis-ci.org/zaach/jison.png>)](<http://travis-ci.org/zaach/jison>)

## An API for creating parsers in JavaScript

---

Jison generates bottom-up parsers in JavaScript. Its API is similar to Bison's, hence the name. It supports many of Bison's major features, plus some of its own. If you are new to parser generators such as Bison, and Context-free Grammars in general, a [good introduction][1] is found in the Bison manual. If you already know Bison, Jison should be easy to pickup.

Briefly, Jison takes a JSON encoded grammar or Bison style grammar and outputs a JavaScript file capable of parsing the language described by that grammar. You can then use the generated script to parse inputs and accept, reject, or perform actions based on the input.

### Installation

---

Jison can be installed for [Node](<http://nodejs.org>) using [`npm`](<http://github.com/isaacs/npm/>)

Using npm:

```
npm install jison -g
```

Usage from the command line

---

Clone the github repository for examples:

```
git clone git://github.com/zaach/jison.git
cd jison/examples
```

Now you're ready to generate some parsers:

```
jison calculator.jison
```

This will generate `calculator.js` in your current working directory. This file can be used to parse an input file, like so:

```
echo "2^32 / 1024" > testcalc
node calculator.js testcalc
```

This will print out `4194304`.

Usage from a CommonJS module

---

You can generate parsers programatically from JavaScript as well. Assuming Jison is in your commonjs environment's load path:

```
// mygenerator.js
```

```

var Parser = require("jison").Parser;

// a grammar in JSON
var grammar = {
 "lex": {
 "rules": [
 ["\\s+", "/* skip whitespace */"],
 ["[a-f0-9]+", "return 'HEX';"]
]
 },

 "bnf": {
 "hex_strings" :["hex_strings HEX",
 "HEX"]
 }
};

// `grammar` can also be a string that uses jison's grammar format
var parser = new Parser(grammar);

// generate source, ready to be written to disk
var parserSource = parser.generate();

// you can also use the parser directly from memory

// returns true
parser.parse("adfe34bc e82a");

// throws lexical error
parser.parse("adfe34bc zxc");

```

#### More Documentation

-----

For more information on creating grammars and using the generated parsers, read the [documentation](<http://jison.org/docs>).

#### How to contribute

-----

Fork, make your changes, run tests and/or add tests then send a pull request.

Run tests with:

```
make test
```

#### Projects using Jison

-----

View them on the [wiki](<https://github.com/zaach/jison/wiki/ProjectsUsingJison>), or add your own.

## Contributors

-----

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Special thanks to Jarred Ligatti, Manuel E. Berm dez

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# JSON Pointer for nodejs

This is an implementation of [JSON Pointer](<http://tools.ietf.org/html/draft-ietf-appsawg-json-pointer-08>).

## Usage

```
var jsonpointer = require("jsonpointer");
var obj = { foo: 1, bar: { baz: 2 }, qux: [3, 4, 5]};
var one = jsonpointer.get(obj, "/foo");
var two = jsonpointer.get(obj, "/bar/baz");
var three = jsonpointer.get(obj, "/qux/0");
var four = jsonpointer.get(obj, "/qux/1");
var five = jsonpointer.get(obj, "/qux/2");
```

```
jsonpointer.set(obj, "/foo", 6); // obj.foo = 6;
```

```
Testing
```

```
$ node test.js
All tests pass.
$
```

```
[![Build Status](https://travis-ci.org/janl/node-jsonpointer.png?branch=master)](undefined)
```

```
Author
```

```
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# launcher script for jsdoc

# Author: Avi Deitcher

#

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## 1.367 kerberos 0.0.9

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single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a  
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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*

\* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

\* <http://www.hypermall.com/>

\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY

\* interrupts us (except possibly for removal/insertion of the cable?)

\* 10/4/97 - began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

\* 10/5/97 - added code to handle PHY interrupts, disable PHY on

\* loss of link, and correctly re-enable PHY when link is

\* re-established. (put back CFG\_PHYIE)

\*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

\*

\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

\*

\* Linux driver for the IDT77201 NICStAR PCI ATM controller.

\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

\* see init\_nicstar() for PHY initialization to change this. This driver

\* expects the Linux ATM stack to support scatter-gather lists

\* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

\*

\* Implementing minimal-copy of received data:

\* IDT always receives data into a small buffer, then large buffers

\* as needed. This means that data must always be copied to create

```

* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
* combined, allow nicstar_free_rx_skb to be called to
* recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
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*
* M. Welsh, 6 July 1996
*
*/

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```
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```

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Version 3, 29 June 2007

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## 1.377 libtool - libltdl 2.4.2 :20.e17

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If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

@smallexample

@var{program} Copyright (C) @var{year} @var{name of author}

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`@end smallexample`

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Version 3, 29 June 2007

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## 1.381 libxslt\_GPLv2 1.1.28 :5.e17

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'Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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\* libxslt\_pipes.c: a program for performing a series of XSLT

\* transformations

\*

\* Written by Panos Louridas, based on libxslt\_tutorial.c by John Fleck.

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\*/

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```
"author": "AJ ONeal <coolaj86@gmail.com> (http://coolaj86.info)",
"url": "git://github.com/coolaj86/node-location.git"
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# 1.383 Iodash 3.5.0

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 "description": "A utility library delivering consistency, customization, performance, and extras.",
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 "util"
],
 "author": "John-David Dalton <john.david.dalton@gmail.com> (http://allyoucanleet.com/)",
 "contributors": [
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 "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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 "*.*custom.*",
 "*.*min.*",
 "*.*template.*",
 "*.*d.ts",
 "*.*map",
 "*.*md"
]
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}
```

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"*.txt",
"lodash.js",
"index.js",
"bower.json",
"component.json",
"doc",
"modularize",
"node_modules",
"perf",
"test",
"vendor"
]
}
}
```

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"url": "<https://github.com/cainus/logdriver/issues>"

"url": "[git://github.com/cainus/logdriver.git](https://github.com/cainus/logdriver.git)"

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Narrative Science

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"Contribution" shall mean any original work of authorship, including any modifications or additions to an existing work, that is intentionally submitted by You to the Project Leads for inclusion in, or documentation of, any of the products owned or managed by the Project Leads (the "Work"). For the purposes of this definition, "submitted" means any form of electronic, verbal, or written

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## 1.393 log4js 0.6.12

### 1.393.1 Available under license :

# log4js-node [![Build Status](https://secure.travis-ci.org/nomiddlename/log4js-node.png?branch=master)](http://travis-ci.org/nomiddlename/log4js-node)

This is a conversion of the [log4js](http://log4js.berlios.de/index.html) framework to work with [node](http://nodejs.org). I've mainly stripped out the browser-specific code and tidied up some of the javascript.

Out of the box it supports the following features:

- \* coloured console logging
- \* replacement of node's console.log functions (optional)
- \* file appender, with log rolling based on file size
- \* SMTP appender
- \* GELF appender
- \* hook.io appender
- \* Loggly appender
- \* multiprocess appender (useful when you've got worker processes)
- \* a logger for connect/express servers



- \* configurable log message layout/patterns
- \* different log levels for different log categories (make some parts of your app log as DEBUG, others only ERRORS, etc.)

NOTE: from log4js 0.5 onwards you'll need to explicitly enable replacement of node's console.log functions. Do this either by calling `log4js.replaceConsole()` or configuring with an object or json file like this:

```
```javascript
{
  appenders: [
    { type: "console" }
  ],
  replaceConsole: true
}
```
```

## installation

```
npm install log4js
```

## usage

Minimalist version:

```
```javascript
var log4js = require('log4js');
var logger = log4js.getLogger();
logger.debug("Some debug messages");
```
```

By default, log4js outputs to stdout with the coloured layout (thanks to [masyllum](http://github.com/masyllum)), so for the above you would see:

```
```bash
[2010-01-17 11:43:37.987] [DEBUG] [default] - Some debug messages
```
```

See example.js for a full example, but here's a snippet (also in fromreadme.js):

```
```javascript
var log4js = require('log4js');
//console log is loaded by default, so you won't normally need to do this
//log4js.loadAppender('console');
log4js.loadAppender('file');
//log4js.addAppender(log4js.appenders.console());
log4js.addAppender(log4js.appenders.file('logs/cheese.log'), 'cheese');

var logger = log4js.getLogger('cheese');
logger.setLevel('ERROR');

logger.trace('Entering cheese testing');
logger.debug('Got cheese.');
```

```
logger.info('Cheese is Gouda.');
```

```
logger.warn('Cheese is quite smelly.');
```

```
logger.error('Cheese is too ripe!');
```

```
logger.fatal('Cheese was breeding ground for listeria.');
```

```
...
```

Output:

```
``bash
```

```
[2010-01-17 11:43:37.987] [ERROR] cheese - Cheese is too ripe!
```

```
[2010-01-17 11:43:37.990] [FATAL] cheese - Cheese was breeding ground for listeria.
```

```
...
```

The first 5 lines of the code above could also be written as:

```
``javascript
```

```
var log4js = require('log4js');
```

```
log4js.configure({
```

```
  appenders: [
```

```
    { type: 'console' },
```

```
    { type: 'file', filename: 'logs/cheese.log', category: 'cheese' }
```

```
  ]
```

```
});
```

```
...
```

```
## configuration
```

You can configure the appenders and log levels manually (as above), or provide a configuration file (`log4js.configure('path/to/file.json')`), or a configuration object. The configuration file location may also be specified via the environment variable `LOG4JS_CONFIG` (`export LOG4JS_CONFIG=path/to/file.json`).

An example file can be found in `test/log4js.json`. An example config file with log rolling is in `test/with-log-rolling.json`.

By default, the configuration file is checked for changes every 60 seconds, and if changed, reloaded. This allows changes to logging levels to occur without restarting the application.

To turn off configuration file change checking, configure with:

```
``javascript
```

```
var log4js = require('log4js');
```

```
log4js.configure('my_log4js_configuration.json', {});
```

```
...
```

To specify a different period:

```
``javascript
```

```
log4js.configure('file.json', { reloadSecs: 300 });
```

```
...
```

For FileAppender you can also pass the path to the log directory as an option where all your log files would be stored.

```
``javascript
```

```
log4js.configure('my_log4js_configuration.json', { cwd: '/absolute/path/to/log/dir' });
```

...

If you have already defined an absolute path for one of the FileAppenders in the configuration file, you could add a "absolute": true to the particular FileAppender to override the cwd option passed. Here is an example configuration file:

```
```json
my_log4js_configuration.json
{
 "appenders": [
 {
 "type": "file",
 "filename": "relative/path/to/log_file.log",
 "maxLogSize": 20480,
 "backups": 3,
 "category": "relative-logger"
 },
 {
 "type": "file",
 "absolute": true,
 "filename": "/absolute/path/to/log_file.log",
 "maxLogSize": 20480,
 "backups": 10,
 "category": "absolute-logger"
 }
]
}
```
```

Documentation for most of the core appenders can be found on the [wiki](https://github.com/nomiddlename/log4js-node/wiki/Appenders), otherwise take a look at the tests and the examples.

Documentation

See the [wiki](https://github.com/nomiddlename/log4js-node/wiki). Improve the [wiki](https://github.com/nomiddlename/log4js-node/wiki), please.

Contributing

Contributions welcome, but take a look at the [rules](https://github.com/nomiddlename/log4js-node/wiki/Contributing) first.

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1.394 log4js 0.6.22

1.394.1 Available under license :

log4js-node [![Build Status](https://secure.travis-ci.org/nomiddlename/log4js-node.png?branch=master)](http://travis-ci.org/nomiddlename/log4js-node)

This is a conversion of the [log4js](https://github.com/stritti/log4js) framework to work with [node](http://nodejs.org). I've mainly stripped out the browser-specific code and tidied up some of the javascript.

Out of the box it supports the following features:

- * coloured console logging
- * replacement of node's console.log functions (optional)
- * file appender, with log rolling based on file size
- * SMTP appender
- * GELF appender
- * hook.io appender
- * Loggly appender
- * Logstash UDP appender
- * multiprocess appender (useful when you've got worker processes)
- * a logger for connect/express servers
- * configurable log message layout/patterns
- * different log levels for different log categories (make some parts of your app log as DEBUG, others only ERRORS, etc.)

NOTE: from log4js 0.5 onwards you'll need to explicitly enable replacement of node's console.log functions. Do this either by calling `log4js.replaceConsole()` or configuring with an object or json file like this:

```
```javascript
{
 appenders: [
 { type: "console" }
],
 replaceConsole: true
}
```
```

installation

```
npm install log4js
```

usage

Minimalist version:

```
```javascript
var log4js = require('log4js');
var logger = log4js.getLogger();
```

```
logger.debug("Some debug messages");
...

```

By default, log4js outputs to stdout with the coloured layout (thanks to [masyllum](http://github.com/masyllum)), so for the above you would see:

```
``bash
[2010-01-17 11:43:37.987] [DEBUG] [default] - Some debug messages
...

```

See example.js for a full example, but here's a snippet (also in fromreadme.js):

```
``javascript
var log4js = require('log4js');
//console log is loaded by default, so you won't normally need to do this
//log4js.loadAppender('console');
log4js.loadAppender('file');
//log4js.addAppender(log4js.appenders.console());
log4js.addAppender(log4js.appenders.file('logs/cheese.log'), 'cheese');

var logger = log4js.getLogger('cheese');
logger.setLevel('ERROR');

```

```
logger.trace('Entering cheese testing');
logger.debug('Got cheese.');
logger.info('Cheese is Gouda.');
logger.warn('Cheese is quite smelly.');
logger.error('Cheese is too ripe!');
logger.fatal('Cheese was breeding ground for listeria.');
...

```

Output:

```
``bash
[2010-01-17 11:43:37.987] [ERROR] cheese - Cheese is too ripe!
[2010-01-17 11:43:37.990] [FATAL] cheese - Cheese was breeding ground for listeria.
...

```

The first 5 lines of the code above could also be written as:

```
``javascript
var log4js = require('log4js');
log4js.configure({
 appenders: [
 { type: 'console' },
 { type: 'file', filename: 'logs/cheese.log', category: 'cheese' }
]
});
...

```

## configuration

You can configure the appenders and log levels manually (as above), or provide a configuration file (`log4js.configure('path/to/file.json')`), or a configuration object. The configuration file location may also be specified via the environment variable `LOG4JS_CONFIG` (`export LOG4JS_CONFIG=path/to/file.json`).

An example file can be found in `test/log4js.json`. An example config file with log rolling is in `test/with-log-rolling.json`.

By default, the configuration file is checked for changes every 60 seconds, and if changed, reloaded. This allows changes to logging levels to occur without restarting the application.

To turn off configuration file change checking, configure with:

```
```javascript
var log4js = require('log4js');
log4js.configure('my_log4js_configuration.json', {});
```
```

To specify a different period:

```
```javascript
log4js.configure('file.json', { reloadSecs: 300 });
```
```

For FileAppender you can also pass the path to the log directory as an option where all your log files would be stored.

```
```javascript
log4js.configure('my_log4js_configuration.json', { cwd: '/absolute/path/to/log/dir' });
```
```

If you have already defined an absolute path for one of the FileAppenders in the configuration file, you could add a "absolute": true to the particular FileAppender to override the cwd option passed. Here is an example configuration file:

```
my_log4js_configuration.json
```json
{
  "appenders": [
    {
      "type": "file",
      "filename": "relative/path/to/log_file.log",
      "maxLogSize": 20480,
      "backups": 3,
      "category": "relative-logger"
    },
    {
      "type": "file",
      "absolute": true,
      "filename": "/absolute/path/to/log_file.log",
      "maxLogSize": 20480,
      "backups": 10,
      "category": "absolute-logger"
    }
  ]
}
```
```

Documentation for most of the core appenders can be found on the [wiki](https://github.com/nomiddlename/log4js-node/wiki/Appenders), otherwise take a look at the tests and the examples.

## ## Documentation

See the [wiki](https://github.com/nomiddlename/log4js-node/wiki). Improve the [wiki](https://github.com/nomiddlename/log4js-node/wiki), please.

There's also [an example application](https://github.com/nomiddlename/log4js-example).

## ## Contributing

Contributions welcome, but take a look at the [rules](https://github.com/nomiddlename/log4js-node/wiki/Contributing) first.

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# 1.395 log4js 0.6.10

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This is a conversion of the [log4js](http://log4js.berlios.de/index.html) framework to work with [node](http://nodejs.org). I've mainly stripped out the browser-specific code and tidied up some of the javascript.

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- \* multiprocess appender (useful when you've got worker processes)
- \* a logger for connect/express servers
- \* configurable log message layout/patterns
- \* different log levels for different log categories (make some parts of your app log as DEBUG, others only ERRORS, etc.)

NOTE: from log4js 0.5 onwards you'll need to explicitly enable replacement of node's console.log functions. Do this either by calling `log4js.replaceConsole()` or configuring with an object or json file like this:

```
```javascript
{
  appenders: [
    { type: "console" }
  ],
  replaceConsole: true
}
```
```

## installation

```
npm install log4js
```

## usage

Minimalist version:

```
```javascript
var log4js = require('log4js');
var logger = log4js.getLogger();
logger.debug("Some debug messages");
```
```

By default, log4js outputs to stdout with the coloured layout (thanks to [masyllum](<http://github.com/masyllum>)), so for the above you would see:

```
```bash
[2010-01-17 11:43:37.987] [DEBUG] [default] - Some debug messages
```
```

See example.js for a full example, but here's a snippet (also in fromreadme.js):

```
```javascript
var log4js = require('log4js');
//console log is loaded by default, so you won't normally need to do this
//log4js.loadAppender('console');
log4js.loadAppender('file');
//log4js.addAppender(log4js.appenders.console());
log4js.addAppender(log4js.appenders.file('logs/cheese.log'), 'cheese');
```

```
var logger = log4js.getLogger('cheese');
logger.setLevel('ERROR');
```

```
logger.trace('Entering cheese testing');
logger.debug('Got cheese. ');
logger.info('Cheese is Gouda. ');
logger.warn('Cheese is quite smelly. ');
logger.error('Cheese is too ripe!');
logger.fatal('Cheese was breeding ground for listeria. ');
```
```

Output:



```
```bash
[2010-01-17 11:43:37.987] [ERROR] cheese - Cheese is too ripe!
[2010-01-17 11:43:37.990] [FATAL] cheese - Cheese was breeding ground for listeria.
```
```

The first 5 lines of the code above could also be written as:

```
```javascript
var log4js = require('log4js');
log4js.configure({
  appenders: [
    { type: 'console' },
    { type: 'file', filename: 'logs/cheese.log', category: 'cheese' }
  ]
});
```
```

```
configuration
```

You can configure the appenders and log levels manually (as above), or provide a configuration file (`log4js.configure('path/to/file.json')`), or a configuration object. The configuration file location may also be specified via the environment variable `LOG4JS_CONFIG` (`export LOG4JS_CONFIG=path/to/file.json`).

An example file can be found in `test/log4js.json`. An example config file with log rolling is in `test/with-log-rolling.json`.

By default, the configuration file is checked for changes every 60 seconds, and if changed, reloaded. This allows changes to logging levels to occur without restarting the application.

To turn off configuration file change checking, configure with:

```
```javascript
var log4js = require('log4js');
log4js.configure('my_log4js_configuration.json', {});
```
```

To specify a different period:

```
```javascript
log4js.configure('file.json', { reloadSecs: 300 });
```
```

For FileAppender you can also pass the path to the log directory as an option where all your log files would be stored.

```
```javascript
log4js.configure('my_log4js_configuration.json', { cwd: '/absolute/path/to/log/dir' });
```
```

If you have already defined an absolute path for one of the FileAppenders in the configuration file, you could add a "absolute": true to the particular FileAppender to override the cwd option passed. Here is an example configuration file:

```
```json
#### my_log4js_configuration.json ####
```

```

{
  "appenders": [
    {
      "type": "file",
      "filename": "relative/path/to/log_file.log",
      "maxLogSize": 20480,
      "backups": 3,
      "category": "relative-logger"
    },
    {
      "type": "file",
      "absolute": true,
      "filename": "/absolute/path/to/log_file.log",
      "maxLogSize": 20480,
      "backups": 10,
      "category": "absolute-logger"
    }
  ]
}
...

```

Documentation for most of the core appenders can be found on the [wiki](https://github.com/nomiddlename/log4js-node/wiki/Appenders), otherwise take a look at the tests and the examples.

Documentation

See the [wiki](https://github.com/nomiddlename/log4js-node/wiki). Improve the [wiki](https://github.com/nomiddlename/log4js-node/wiki), please.

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1.396 log4js 0.6.9

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Version 2.0, January 2004

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- */

1.397 log4js 0.5.8

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log4js-node [Build Status](https://secure.travis-ci.org/nomiddlename/log4js-node.png?branch=master)(http://travis-ci.org/nomiddlename/log4js-node)

This is a conversion of the [log4js](http://log4js.berlios.de/index.html) framework to work with [node](http://nodejs.org). I've mainly stripped out the browser-specific code and tidied up some of the javascript.

Out of the box it supports the following features:

- * coloured console logging
- * replacement of node's console.log functions (optional)
- * file appender, with log rolling based on file size
- * SMTP appender
- * GELF appender
- * hook.io appender
- * multiprocess appender (useful when you've got worker processes)
- * a logger for connect/express servers
- * configurable log message layout/patterns
- * different log levels for different log categories (make some parts of your app log as DEBUG, others only ERRORS, etc.)

NOTE: from log4js 0.5 onwards you'll need to explicitly enable replacement of node's console.log functions. Do this either by calling `log4js.replaceConsole()` or configuring with an object or json file like this:

```
```javascript
{
 appenders: [
 { type: "console" }
],
 replaceConsole: true
}
```
```

installation

```
npm install log4js
```

usage

Minimalist version:

```
```javascript
var log4js = require('log4js');
var logger = log4js.getLogger();
logger.debug("Some debug messages");
```
```

By default, log4js outputs to stdout with the coloured layout (thanks to [masyllum](http://github.com/masyllum)), so for the above you would see:

```
```bash
[2010-01-17 11:43:37.987] [DEBUG] [default] - Some debug messages
```
```

See example.js for a full example, but here's a snippet (also in fromreadme.js):

```
```javascript
var log4js = require('log4js');
//console log is loaded by default, so you won't normally need to do this
//log4js.loadAppender('console');
log4js.loadAppender('file');
//log4js.addAppender(log4js.appenders.console());
log4js.addAppender(log4js.appenders.file('logs/cheese.log'), 'cheese');
```

```
var logger = log4js.getLogger('cheese');
logger.setLevel('ERROR');
```

```
logger.trace('Entering cheese testing');
logger.debug('Got cheese. ');
logger.info('Cheese is Gouda. ');
logger.warn('Cheese is quite smelly. ');
logger.error('Cheese is too ripe!');
logger.fatal('Cheese was breeding ground for listeria. ');
```
```

Output:

```
```bash
[2010-01-17 11:43:37.987] [ERROR] cheese - Cheese is too ripe!
[2010-01-17 11:43:37.990] [FATAL] cheese - Cheese was breeding ground for listeria.
```
```

The first 5 lines of the code above could also be written as:

```
```javascript
var log4js = require('log4js');
log4js.configure({
 appenders: [
 { type: 'console' },
 { type: 'file', filename: 'logs/cheese.log', category: 'cheese' }
]
});
```
```

```
## configuration
```

You can configure the appenders and log levels manually (as above), or provide a configuration file (`log4js.configure('path/to/file.json')`), or a configuration object. The configuration file location may also be specified via the environment variable `LOG4JS_CONFIG` (`export LOG4JS_CONFIG=path/to/file.json`).

An example file can be found in `test/log4js.json`. An example config file with log rolling is in `test/with-log-rolling.json`.

By default, the configuration file is checked for changes every 60 seconds, and if changed, reloaded. This allows changes to logging levels to occur without restarting the application.

To turn off configuration file change checking, configure with:

```
```javascript
var log4js = require('log4js');
log4js.configure('my_log4js_configuration.json', {});
```
```

To specify a different period:

```
```javascript
log4js.configure('file.json', { reloadSecs: 300 });
```
```

For `FileAppender` you can also pass the path to the log directory as an option where all your log files would be stored.

```
```javascript
log4js.configure('my_log4js_configuration.json', { cwd: '/absolute/path/to/log/dir' });
```
```

If you have already defined an absolute path for one of the `FileAppenders` in the configuration file, you could add a `"absolute": true` to the particular `FileAppender` to override the `cwd` option passed. Here is an example configuration file:

```
```json
my_log4js_configuration.json
{
 "appenders": [
 {
 "type": "file",
 "filename": "relative/path/to/log_file.log",
 "maxLogSize": 20480,
 "backups": 3,
 "category": "relative-logger"
 },
 {
 "type": "file",
 "absolute": true,
 "filename": "/absolute/path/to/log_file.log",
 "maxLogSize": 20480,
 "backups": 10,
 "category": "absolute-logger"
 }
]
}
```
```



```
}  
]  
}  
...
```

Documentation for most of the core appenders can be found on the [wiki](log4js-node/wiki/Appenders), otherwise take a look at the tests and the examples.

Documentation

See the [wiki](log4js-node/wiki). Improve the [wiki](log4js-node/wiki), please.

Contributing

Contributions welcome, but take a look at the [rules](log4js-node/wiki/Contributing) first.

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1.398 log4js-ain2 0.1.6

1.398.1 Available under license :

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```
"author": "Itamar Kunik",  
"url": "http://github.com/Fring/log4js-ain2"  
"url": "http://github.com/Fring/log4js-ain2/issues"
```

1.399 Iolex 1.1.0

1.399.1 Available under license :

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1.400 Iru-cache 2.6.4

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1.401 Iru-cache 2.5.0

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1.402 media-typer 0.2.0

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```
# media-typer
```

```
[![NPM version](https://badge.fury.io/js/media-typer.svg)](https://badge.fury.io/js/media-typer)
[![Build Status](https://travis-ci.org/expressjs/media-typer.svg?branch=master)](https://travis-ci.org/expressjs/media-typer)
[![Coverage Status](https://img.shields.io/coveralls/expressjs/media-typer.svg?branch=master)](https://coveralls.io/r/expressjs/media-typer)
```

Simple RFC 6838 media type parser

```
## Installation
```

```
```sh
$ npm install media-typer
```
```

API

```
```js
var typer = require('media-typer')
```
```

typer.parse(string)

```
```js
var obj = typer.parse('image/svg+xml; charset=utf-8')
```
```

Parse a media type string. This will return an object with the following properties (examples are shown for the string `'image/svg+xml; charset=utf-8'`):

- `type`: The type of the media type (always lower case). Example: `'image'`
- `subtype`: The subtype of the media type (always lower case). Example: `'svg'`
- `suffix`: The suffix of the media type (always lower case). Example: `'xml'`
- `parameters`: An object of the parameters in the media type (name of parameter always lower case). Example: `{ charset: 'utf-8' }`

typer.parse(req)

```
```js
var obj = typer.parse(req)
```
```

Parse the `'content-type'` header from the given `req`. Short-cut for `typer.parse(req.headers['content-type'])`.

typer.parse(res)

```
```js
var obj = typer.parse(res)
```
```

Parse the `'content-type'` header set on the given `res`. Short-cut for `typer.parse(res.getHeader('content-type'))`.

typer.format(obj)

```
```js
var obj = typer.format({ type: 'image', subtype: 'svg', suffix: 'xml' })
```
```

Format an object into a media type string. This will return a string of the mime type for the given object. For the properties of the object, see the documentation for ``typer.parse(string)``.

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1.403 media-typer 0.3.0

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1.404 merge-descriptors 1.0.0

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1.405 merge-descriptors 0.0.2

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Merge Descriptors [![Build Status](https://travis-ci.org/component/merge-descriptors.png)](https://travis-ci.org/component/merge-descriptors)

Merge objects using descriptors.

```
```js
var thing = {
 get name() {
 return 'jon'
 }
}
```

```
}

var animal = {

}

merge(animal, thing)

animal.name === 'jon'
...

API
```

```
merge(destination, source)
```

Overwrites `destination`'s descriptors with `source`'s.

```
License
```

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## 1.407 method-override 2.3.1

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# 1.408 method-override 2.3.3

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# 1.409 method-override 1.0.2

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```
method-override [![Build Status](https://travis-ci.org/expressjs/method-override.svg)](https://travis-ci.org/expressjs/method-override) [![NPM version](https://badge.fury.io/js/method-override.svg)](http://badge.fury.io/js/method-override)
```

Lets you use HTTP verbs such as PUT or DELETE in places you normally can't.

Previously `connect.methodOverride()`.

```
Install
```

```
```sh
```

```
$ npm install method-override
```

```
```
```

```
API
```

**\*\*NOTE\*\*** It is very important that this module is used **\*\*before\*\*** any module that needs to know the method of the request (for example, it `_must_` be used prior to the `csrf`` module).

### methodOverride(key)

Create a new middleware function to override the `req.method`` property with a new value. This value will be pulled from the `X-HTTP-Method-Override`` header of the request. If this header is not present, then this module will look in the `req.body`` object for a property name given by the `key`` argument (and if found, will delete the property from `req.body``).

If the found method is supported by node.js core, then `req.method`` will be set to this value, as if it has originally been that value. The previous `req.method`` value will be stored in `req.originalMethod``.

#### key

This is the property to look for the overwritten method in the `req.body`` object. This defaults to `"_method"`.

## Examples

```
```js
var bodyParser = require('body-parser')
var connect = require('connect')
var methodOverride = require('method-override')
```

```
app.use(bodyParser())
app.use(methodOverride())
```
```

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## 1.410 method-override 1.0.0

### 1.410.1 Available under license :

# Method Override

Previously `connect.methodOverride()`.

Usage:

```
```js
var app = require('connect');
app.use(require('body-parser')());
app.use(require('method-override')())
```
```

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# 1.411 method-override 2.3.2

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## 1.413 methods 0.0.1

### 1.413.1 Available under license :

```
{
 "name": "methods",
 "version": "0.0.1",
 "description": "HTTP methods that node supports",
 "main": "index.js",
 "scripts": {
 "test": "echo \"Error: no test specified\" && exit 1"
 },
 "keywords": [
 "http",
 "methods"
],
 "author": "TJ Holowaychuk",
 "license": "MIT"
}
```

## 1.414 methods 0.1.0

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## 1.417 mime 1.2.11

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## 1.428 minimatch 0.2.14

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## 1.429 minimatch 2.0.4

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```
{
 "author": "Isaac Z. Schlueter <i@izs.me> (http://blog.izs.me)",
 "name": "minimatch",
 "description": "a glob matcher in javascript",
```

```

"version": "2.0.4",
"repository": {
 "type": "git",
 "url": "git://github.com/isaacs/minimatch.git"
},
"main": "minimatch.js",
"scripts": {
 "test": "tap test/*.js",
 "prepublish": "browserify -o browser.js -e minimatch.js --bare"
},
"engines": {
 "node": "*"
},
"dependencies": {
 "brace-expansion": "^1.0.0"
},
"devDependencies": {
 "browserify": "^9.0.3",
 "tap": ""
},
"license": {
 "type": "MIT",
 "url": "http://github.com/isaacs/minimatch/raw/master/LICENSE"
},
"files": [
 "minimatch.js",
 "browser.js"
]
}

```

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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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## 1.444 mongodb 1.1.8

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Up to date documentation

=====

[Documentation](<http://mongodb.github.com/node-mongodb-native/>)

Install

=====

To install the most recent release from npm, run:

```
npm install mongodb
```

That may give you a warning telling you that bugs['web'] should be bugs['url'], it would be safe to ignore it (this has been fixed in the development version)

To install the latest from the repository, run::

```
npm install path/to/node-mongodb-native
```

## Community

=====

Check out the google group [node-mongodb-native](<http://groups.google.com/group/node-mongodb-native>) for questions/answers from users of the driver.

## Introduction

=====

This is a node.js driver for MongoDB. It's a port (or close to a port) of the library for ruby at <http://github.com/mongodb/mongo-ruby-driver/>.

A simple example of inserting a document.

```
````javascript
var client = new Db('test', new Server("127.0.0.1", 27017, {})),
    test = function (err, collection) {
    collection.insert({a:2}, function(err, docs) {

    collection.count(function(err, count) {
    test.assertEquals(1, count);
    });

    // Locate all the entries using find
    collection.find().toArray(function(err, results) {
    test.assertEquals(1, results.length);
    test.assertTrue(results[0].a === 2);

    // Let's close the db
    client.close();
    });
    });
};

client.open(function(err, p_client) {
    client.collection('test_insert', test);
});
````
```

Data types

=====

To store and retrieve the non-JSON MongoDB primitives

[ObjectID](<http://www.mongodb.org/display/DOCS/Object+IDs>), Long, Binary,

[Timestamp](<http://www.mongodb.org/display/DOCS/Timestamp+data+type>),

[DBRef](<http://www.mongodb.org/display/DOCS/Database+References#DatabaseReferences-DBRef>), Code).

In particular, every document has a unique `\_id` which can be almost any type, and by default a 12-byte ObjectID is created. ObjectIDs can be represented as 24-digit hexadecimal strings, but you must convert the string back into an ObjectID before you can use it in the database. For example:

```
```javascript
// Get the objectID type
var ObjectID = require('mongodb').ObjectID;

var idString = '4e4e1638c85e808431000003';
collection.findOne({_id: new ObjectID(idString)}, console.log) // ok
collection.findOne({_id: idString}, console.log) // wrong! callback gets undefined
```
```

Here are the constructors the non-Javascript BSON primitive types:

```
```javascript
// Fetch the library
var mongo = require('mongodb');
// Create new instances of BSON types
new mongo.Long(numberString)
new mongo.ObjectID(hexString)
new mongo.Timestamp() // the actual unique number is generated on insert.
new mongo.DBRef(collectionName, id, dbName)
new mongo.Binary(buffer) // takes a string or Buffer
new mongo.Code(code, [context])
new mongo.Symbol(string)
new mongo.MinKey()
new mongo.MaxKey()
new mongo.Double(number) // Force double storage
```
```

The C/C++ bson parser/serializer

-----

If you are running a version of this library has the C/C++ parser compiled, to enable the driver to use the C/C++ bson parser pass it the option `native_parser:true` like below

```
```javascript
// using native_parser:
var client = new Db('integration_tests_20',
    new Server("127.0.0.1", 27017),
```



```
        {native_parser:true});  
...  

```

The C++ parser uses the js objects both for serialization and deserialization.

GitHub information

=====

The source code is available at <http://github.com/mongodb/node-mongodb-native>.
You can either clone the repository or download a tarball of the latest release.

Once you have the source you can test the driver by running

```
$ make test
```

in the main directory. You will need to have a mongo instance running on localhost for the integration tests to pass.

Examples

=====

For examples look in the examples/ directory. You can execute the examples using node.

```
$ cd examples  
$ node queries.js
```

GridStore

=====

The GridStore class allows for storage of binary files in mongoDB using the mongoDB defined files and chunks collection definition.

For more information have a look at [Gridstore](<https://github.com/mongodb/node-mongodb-native/blob/master/docs/gridfs.md>)

Replicaset

=====

For more information about how to connect to a replicaset have a look at [Replicaset](<https://github.com/mongodb/node-mongodb-native/blob/master/docs/replicaset.md>)

Primary Key Factories

Defining your own primary key factory allows you to generate your own series of id's (this could f.ex be to use something like ISBN numbers). The generated the id needs to be a 12 byte long "string".

Simple example below

```
```javascript
```



```

 error_client.close();
 });
});
});
...

```

## Documentation

=====

If this document doesn't answer your questions, see the source of [Collection](<https://github.com/mongodb/node-mongodb-native/blob/master/lib/mongodb/collection.js>) or [Cursor](<https://github.com/mongodb/node-mongodb-native/blob/master/lib/mongodb/cursor.js>), or the documentation at MongoDB for query and update formats.

## Find

----

The find method is actually a factory method to create Cursor objects. A Cursor lazily uses the connection the first time you call `nextObject`, `each`, or `toArray`.

The basic operation on a cursor is the `nextObject` method that fetches the next matching document from the database. The convenience methods `each` and `toArray` call `nextObject` until the cursor is exhausted.

### Signatures:

```

```javascript
var cursor = collection.find(query, [fields], options);
cursor.sort(fields).limit(n).skip(m).

cursor.nextObject(function(err, doc) {});
cursor.each(function(err, doc) {});
cursor.toArray(function(err, docs) {});

cursor.rewind() // reset the cursor to its initial state.
```

```

Useful chainable methods of cursor. These can optionally be options of `find` instead of method calls:

- \* `.limit(n).skip(m)` to control paging.
- \* `.sort(fields)` Order by the given fields. There are several equivalent syntaxes:
- \* `.sort({field1: -1, field2: 1})` descending by field1, then ascending by field2.
- \* `.sort([[ 'field1', 'desc'], [ 'field2', 'asc']])` same as above
- \* `.sort([[ 'field1', 'desc'], 'field2'])` same as above
- \* `.sort('field1')` ascending by field1

Other options of `find`:

- \* ``fields`` the fields to fetch (to avoid transferring the entire document)
- \* ``tailable`` if true, makes the cursor [tailable](http://www.mongodb.org/display/DOCS/Tailable+Cursors).
- \* ``batchSize`` The number of the subset of results to request the database to return for every request. This should initially be greater than 1 otherwise the database will automatically close the cursor. The batch size can be set to 1 with ``batchSize(n, function(err){})`` after performing the initial query to the database.
- \* ``hint`` See [Optimization: hint](http://www.mongodb.org/display/DOCS/Optimization#Optimization-Hint).
- \* ``explain`` turns this into an explain query. You can also call ``explain()`` on any cursor to fetch the explanation.
- \* ``snapshot`` prevents documents that are updated while the query is active from being returned multiple times. See more [details about query snapshots](http://www.mongodb.org/display/DOCS/How+to+do+Snapshotted+Queries+in+the+Mongo+Database).
- \* ``timeout`` if false, asks MongoDB not to time out this cursor after an inactivity period.

For information on how to create queries, see the [MongoDB section on querying](http://www.mongodb.org/display/DOCS/Querying).

```

```javascript
var mongodb = require('mongodb');
var server = new mongodb.Server("127.0.0.1", 27017, {});
new mongodb.Db('test', server, {}).open(function (error, client) {
  if (error) throw error;
  var collection = new mongodb.Collection(client, 'test_collection');
  collection.find({}, {limit:10}).toArray(function(err, docs) {
    console.dir(docs);
  });
});
```

```

Insert

-----

Signature:

```

```javascript
collection.insert(docs, options, [callback]);
```

```

where ``docs`` can be a single document or an array of documents.

Useful options:

- \* ``safe:true`` Should always set if you have a callback.

See also: [MongoDB docs for insert](http://www.mongodb.org/display/DOCS/Inserting).

```
````javascript
var mongodb = require('mongodb');
var server = new mongodb.Server("127.0.0.1", 27017, {});
new mongodb.Db('test', server, {}).open(function (error, client) {
  if (error) throw error;
  var collection = new mongodb.Collection(client, 'test_collection');
  collection.insert({hello: 'world'}, {safe:true},
    function(err, objects) {
      if (err) console.warn(err.message);
      if (err && err.message.indexOf('E11000 ') !== -1) {
        // this _id was already inserted in the database
      }
    });
});
````
```

Note that there's no reason to pass a callback to the insert or update commands unless you use the `safe:true` option. If you don't specify `safe:true`, then your callback will be called immediately.

Update; update and insert (upsert)

-----

The update operation will update the first document that matches your query (or all documents that match if you use `multi:true`).

If `safe:true`, `upsert` is not set, and no documents match, your callback will return 0 documents updated.

See the [MongoDB docs](http://www.mongodb.org/display/DOCS/Updating) for the modifier (`\$inc`, `\$set`, `\$push`, etc.) formats.

Signature:

```
````javascript
collection.update(criteria, objNew, options, [callback]);
````
```

Useful options:

- \* `safe:true` Should always set if you have a callback.
- \* `multi:true` If set, all matching documents are updated, not just the first.
- \* `upsert:true` Atomically inserts the document if no documents matched.

Example for `update`:

```
````javascript
var mongodb = require('mongodb');
```

```

var server = new mongodb.Server("127.0.0.1", 27017, {});
new mongodb.Db('test', server, {}).open(function (error, client) {
  if (error) throw error;
  var collection = new mongodb.Collection(client, 'test_collection');
  collection.update({hi: 'here'}, {$set: {hi: 'there'}}, {safe:true},
    function(err) {
      if (err) console.warn(err.message);
      else console.log('successfully updated');
    });
});
...

```

Find and modify

`findAndModify` is like `update`, but it also gives the updated document to your callback. But there are a few key differences between `findAndModify` and `update`:

1. The signatures differ.
2. You can only `findAndModify` a single item, not multiple items.

Signature:

```

```javascript
collection.findAndModify(query, sort, update, options, callback)
```

```

The `sort` parameter is used to specify which object to operate on, if more than one document matches. It takes the same format as the cursor `sort` (see `Connection.find` above).

See the

[MongoDB docs for `findAndModify`](<http://www.mongodb.org/display/DOCS/findAndModify+Command>) for more details.

Useful options:

- * `remove:true` set to a true to remove the object before returning
- * `new:true` set to true if you want to return the modified object rather than the original. Ignored for remove.
- * `upsert:true` Atomically inserts the document if no documents matched.

Example for `findAndModify`:

```

```javascript
var mongodb = require('mongodb');
var server = new mongodb.Server("127.0.0.1", 27017, {});
new mongodb.Db('test', server, {}).open(function (error, client) {

```

```

if (error) throw error;
var collection = new mongodb.Collection(client, 'test_collection');
collection.findAndModify({hello: 'world'}, [['_id','asc']], {$set: {hi: 'there'}}, {},
 function(err, object) {
 if (err) console.warn(err.message);
 else console.dir(object); // undefined if no matching object exists.
 });
});
...

```

Save

----

The `save` method is a shorthand for upsert if the document contains an `\_id`, or an insert if there is no `\_id`.

Sponsors

=====

Just as Felix Geisendörfer I'm also working on the driver for my own startup and this driver is a big project that also benefits other companies who are using MongoDB.

If your company could benefit from a even better-engineered node.js mongodb driver I would appreciate any type of sponsorship you may be able to provide. All the sponsors will get a lifetime display in this readme, priority support and help on problems and votes on the roadmap decisions for the driver. If you are interested contact me on [christkv AT g m a i l.com](mailto:christkv@gmail.com) for details.

And I'm very thankful for code contributions. If you are interested in working on features please contact me so we can discuss API design and testing.

Release Notes

=====

See HISTORY

Credits

=====

1. [10gen](http://github.com/mongodb/mongo-ruby-driver/)
2. [Google Closure Library](http://code.google.com/closure/library/)
3. [Jonas Raoni Soares Silva](http://jsfromhell.com/classes/binary-parser)

Contributors

=====

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## THE BASIC LIBRARY FUNCTIONS

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- Strongtalk assembler, the basis of the files assembler-arm-inl.h, assembler-arm.cc, assembler-arm.h, assembler-ia32-inl.h, assembler-ia32.cc, assembler-ia32.h, assembler-x64-inl.h, assembler-x64.cc, assembler-x64.h, assembler-mips-inl.h, assembler-mips.cc, assembler-mips.h, assembler.cc and assembler.h. This code is copyrighted by Sun Microsystems Inc. and released under a 3-clause BSD license.
- Valgrind client API header, located at third\_party/valgrind/valgrind.h. This is release under the BSD license.

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## 1.451 mongoose 3.6.17

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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

<a href="https://runnable.com/#learnboost/mongoose/code.js/launch" target="\_blank"></a>

## Support

- [Stack Overflow](http://stackoverflow.com/questions/tagged/mongoose)
- [bug reports](https://github.com/learnboost/mongoose/issues/)
- [help forum](http://groups.google.com/group/mongoose-orm)
- [10gen support](http://www.mongodb.org/display/DOCS/Technical+Support)
- (irc) #mongoosejs on freenode

## Installation

First install [node.js](http://nodejs.org/) and [mongodb](http://www.mongodb.org/downloads).

```
$ npm install mongoose
```

## ## Plugins

Check out the [plugins search site](<http://plugins.mongoosejs.com/>) to see hundreds of related modules from the community.

## ## Contributors

View all 90+ [contributors](<https://github.com/learnboost/mongoose/graphs/contributors>).

## ## Get Involved

Stand up and be counted as a [contributor](<https://github.com/LearnBoost/mongoose/blob/master/CONTRIBUTING.md>) too!

## ## Overview

### ### Connecting to MongoDB

First, we need to define a connection. If your app uses only one database, you should use `mongoose.connect``. If you need to create additional connections, use `mongoose.createConnection``.

Both `connect`` and `createConnection`` take a `mongodb://`` URI, or the parameters `host, database, port, options``.

```
var mongoose = require('mongoose');

mongoose.connect('mongodb://localhost/my_database');
```

Once connected, the `open`` event is fired on the `Connection`` instance. If you're using `mongoose.connect``, the `Connection`` is `mongoose.connection``. Otherwise, `mongoose.createConnection`` return value is a `Connection``.

**\*\*Important!\*\*** Mongoose buffers all the commands until it's connected to the database. This means that you don't have to wait until it connects to MongoDB in order to define models, run queries, etc.

### ### Defining a Model

Models are defined through the `Schema`` interface.

```
var Schema = mongoose.Schema
 , ObjectId = Schema.ObjectId;

var BlogPost = new Schema({
 author : ObjectId
 , title : String
 , body : String
 , date : Date
});
```

Aside from defining the structure of your documents and the types of data you're storing, a Schema handles the

definition of:

- \* [Validators](http://mongoosejs.com/docs/validation.html) (async and sync)
- \* [Defaults](http://mongoosejs.com/docs/api.html#schematype\_SchemaType-default)
- \* [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:

```
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, type) {
 // `this` is the current Document
 this.emit('set', path, val);

 // Pass control to the next pre
 next();
});

```

Moreover, you can mutate the incoming `method` arguments so that subsequent middleware see different values for those arguments. To do so, just pass the new values to `next`:

```

.pre(method, function firstPre (next, methodArg1, methodArg2) {
 // Mutate methodArg1
 next("altered-" + methodArg1.toString(), methodArg2);
})

```

```

// pre declaration is chainable
.pre(method, function secondPre (next, methodArg1, methodArg2) {
 console.log(methodArg1);
 // => 'altered-originalValOfMethodArg1'

 console.log(methodArg2);
 // => 'originalValOfMethodArg2'

 // Passing no arguments to `next` automatically passes along the current argument values
 // i.e., the following `next()` is equivalent to `next(methodArg1, methodArg2)`
 // and also equivalent to, with the example method arg
 // values, `next('altered-originalValOfMethodArg1', 'originalValOfMethodArg2')`
 next();
})

```

#### #### Schema gotcha

`type`, when used in a schema has special meaning within Mongoose. If your schema requires using `type` as a nested property you must use object notation:

```

new Schema({
 broken: { type: Boolean }
, asset : {
 name: String
, type: String // uh oh, it broke. asset will be interpreted as String
}
});

```

```

new Schema({
 works: { type: Boolean }
, asset : {
 name: String
, type: { type: String } // works. asset is an object with a type property
}
});

```

#### ### Driver access

The driver being used defaults to [node-mongodb-native](<https://github.com/mongodb/node-mongodb-native>) and is directly accessible through `YourModel.collection`. **Note**: using the driver directly bypasses all Mongoose power-tools like validation, getters, setters, hooks, etc.

#### ## API Docs

Find the API docs [here](<http://mongoosejs.com/docs/api.html>), generated by [dox](<http://github.com/visionmedia/dox>).

#### ## License

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## 1.452 mongoose 3.9.7

### 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=master>)](<https://travis-ci.org/LearnBoost/mongoose>)

## Documentation

[mongoosejs.com](<http://mongoosejs.com/>)

## Support

- [Stack Overflow](<http://stackoverflow.com/questions/tagged/mongoose>)
- [bug reports](<https://github.com/learnboost/mongoose/issues/>)
- [help forum](<http://groups.google.com/group/mongoose-orm>)
- [MongoDB support](<http://www.mongodb.org/display/DOCS/Technical+Support>)
- (irc) #mongoosejs on freenode

## Plugins

Check out the [plugins search site](http://plugins.mongoosejs.com/) to see hundreds of related modules from the community.

## ## 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

```

```

## ## Installation

First install [node.js](http://nodejs.org/) and [mongodb](http://www.mongodb.org/downloads). Then:

```
```sh  
$ npm install mongoose  
```
```

## ## Stability

The current stable branch is [3.8.x](https://github.com/LearnBoost/mongoose/tree/3.8.x). New (unstable) development always occurs on the [master](https://github.com/LearnBoost/mongoose/tree/master) branch.

## ## Overview

### ### Connecting to MongoDB

First, we need to define a connection. If your app uses only one database, you should use `mongoose.connect``. If you need to create additional connections, use `mongoose.createConnection``.

Both `connect`` and `createConnection`` take a `mongodb://` URI, or the parameters host, database, port, options`.`

```
```js  
var mongoose = require('mongoose');  
  
mongoose.connect('mongodb://localhost/my_database');  
```
```

Once connected, the `open`` event is fired on the `Connection`` instance. If you're using `mongoose.connect``, the `Connection`` is `mongoose.connection``. Otherwise, `mongoose.createConnection`` return value is a `Connection``.

**\*\*Important!\*\*** Mongoose buffers all the commands until it's connected to the database. This means that you don't have to wait until it connects to MongoDB in order to define models, run queries, etc.

### ### Defining a Model



Models are defined through the `Schema` interface.

```
```js
var Schema = mongoose.Schema
, ObjectId = Schema.ObjectId;

var BlogPost = new Schema({
  author  : ObjectId
, title   : String
, body    : String
, date    : Date
});
```
```

Aside from defining the structure of your documents and the types of data you're storing, a Schema handles the definition of:

- \* [Validators](<http://mongoosejs.com/docs/validation.html>) (async and sync)
- \* [Defaults]([http://mongoosejs.com/docs/api.html#schematype\\_SchemaType-default](http://mongoosejs.com/docs/api.html#schematype_SchemaType-default))
- \* [Getters]([http://mongoosejs.com/docs/api.html#schematype\\_SchemaType-get](http://mongoosejs.com/docs/api.html#schematype_SchemaType-get))
- \* [Setters]([http://mongoosejs.com/docs/api.html#schematype\\_SchemaType-set](http://mongoosejs.com/docs/api.html#schematype_SchemaType-set))
- \* [Indexes](<http://mongoosejs.com/docs/guide.html#indexes>)
- \* [Middleware](<http://mongoosejs.com/docs/middleware.html>)
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- \* [Plugins](<http://mongoosejs.com/docs/plugins.html>)
- \* [pseudo-JOINs](<http://mongoosejs.com/docs/populate.html>)

The following example shows some of these features:

```
```js
var Comment = new Schema({
  name : { type: String, default: 'hahaha' }
, age  : { type: Number, min: 18, index: true }
, bio  : { type: String, match: /^[a-z]/ }
, date : { type: Date, default: Date.now }
, buff : Buffer
});

// a setter
Comment.path('name').set(function (v) {
  return capitalize(v);
});

// middleware
Comment.pre('save', function (next) {
  notify(this.get('email'));
  next();
});
```
```

```
});
```
```

Take a look at the example in `examples/schema.js` for an end-to-end example of a typical setup.

Accessing a Model

Once we define a model through `mongoose.model('ModelName', mySchema)`, we can access it through the same function

```
```js  
var myModel = mongoose.model('ModelName');
```
```

Or just do it all at once

```
```js  
var MyModel = mongoose.model('ModelName', mySchema);
```
```

We can then instantiate it, and save it:

```
```js  
var instance = new MyModel();
instance.my.key = 'hello';
instance.save(function (err) {
 //
});
```
```

Or we can find documents from the same collection

```
```js  
MyModel.find({}, function (err, docs) {
 // docs.forEach
});
```
```

You can also `findOne`, `findById`, `update`, etc. For more details check out [the docs](<http://mongoosejs.com/docs/queries.html>).

****Important!**** If you opened a separate connection using `mongoose.createConnection()` but attempt to access the model through `mongoose.model('ModelName')` it will not work as expected since it is not hooked up to an active db connection. In this case access your model through the connection you created:

```
```js  
var conn = mongoose.createConnection('your connection string')
 , MyModel = conn.model('ModelName', schema)
```

```
, m = new MyModel;
m.save(); // works
...

```

vs

```
```js
var conn = mongoose.createConnection('your connection string')
, MyModel = mongoose.model('ModelName', schema)
, m = new MyModel;
m.save(); // does not work b/c the default connection object was never connected
...

```

Embedded Documents

In the first example snippet, we defined a key in the Schema that looks like:

```
...
comments: [Comments]
...

```

Where `Comments` is a `Schema` we created. This means that creating embedded documents is as simple as:

```
```js
// retrieve my model
var BlogPost = mongoose.model('BlogPost');

// create a blog post
var post = new BlogPost();

// create a comment
post.comments.push({ title: 'My comment' });

post.save(function (err) {
 if (!err) console.log('Success!');
});
...

```

The same goes for removing them:

```
```js
BlogPost.findById(myId, function (err, post) {
  if (!err) {
    post.comments[0].remove();
    post.save(function (err) {
      // do something
    });
  }
}

```

```
});  
```
```

Embedded documents enjoy all the same features as your models. Defaults, validators, middleware. Whenever an error occurs, it's bubbled to the `save()` error callback, so error handling is a snap!

Mongoose interacts with your embedded documents in arrays `_atomically_`, out of the box.

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See the [docs](<http://mongoosejs.com/docs/middleware.html>) page.

#### #### Intercepting and mutating method arguments

You can intercept method arguments via middleware.

For example, this would allow you to broadcast changes about your Documents every time someone `set`'s a path in your Document to a new value:

```
```js  
schema.pre('set', function (next, path, val, type) {  
  // `this` is the current Document  
  this.emit('set', path, val);  
  
  // Pass control to the next pre  
  next();  
});  
```
```

Moreover, you can mutate the incoming `method` arguments so that subsequent middleware see different values for those arguments. To do so, just pass the new values to `next`:

```
```js  
.pre(method, function firstPre (next, methodArg1, methodArg2) {  
  // Mutate methodArg1  
  next("altered-" + methodArg1.toString(), methodArg2);  
});  
  
// pre declaration is chainable  
.pre(method, function secondPre (next, methodArg1, methodArg2) {  
  console.log(methodArg1);  
  // => 'altered-originalValOfMethodArg1'  
  
  console.log(methodArg2);  
  // => 'originalValOfMethodArg2'  
  
  // Passing no arguments to `next` automatically passes along the current argument values  
  // i.e., the following `next()` is equivalent to `next(methodArg1, methodArg2)`  
});  
```
```

```
// and also equivalent to, with the example method arg
// values, `next('altered-originalValOfMethodArg1', 'originalValOfMethodArg2')`
next();
});
...

```

#### #### Schema gotcha

`type`, when used in a schema has special meaning within Mongoose. If your schema requires using `type` as a nested property you must use object notation:

```
```js
new Schema({
  broken: { type: Boolean }
, asset : {
  name: String
  , type: String // uh oh, it broke. asset will be interpreted as String
  }
});

new Schema({
  works: { type: Boolean }
, asset : {
  name: String
  , type: { type: String } // works. asset is an object with a type property
  }
});
...

```

Driver access

The driver being used defaults to [node-mongodb-native](https://github.com/mongodb/node-mongodb-native) and is directly accessible through `YourModel.collection`. **Note**: using the driver directly bypasses all Mongoose power-tools like validation, getters, setters, hooks, etc.

API Docs

Find the API docs [here](http://mongoosejs.com/docs/api.html), generated using [dox](http://github.com/visionmedia/dox).

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1.453 mongoose 3.8.25

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Mongoose

Mongoose is a [MongoDB](<http://www.mongodb.org/>) object modeling tool designed to work in an asynchronous environment.

[![Build Status](<https://travis-ci.org/LearnBoost/mongoose.png?branch=3.8.x>)](<https://travis-ci.org/LearnBoost/mongoose>)

Documentation

[mongoosejs.com](<http://mongoosejs.com/>)

Support

- [Stack Overflow](<http://stackoverflow.com/questions/tagged/mongoose>)
- [bug reports](<https://github.com/learnboost/mongoose/issues/>)
- [help forum](<http://groups.google.com/group/mongoose-orm>)
- [MongoDB support](<http://www.mongodb.org/display/DOCS/Technical+Support>)
- (irc) #mongoosejs on freenode

Plugins

Check out the [plugins search site](<http://plugins.mongoosejs.com/>) to see hundreds of related modules from the community.

Build your own Mongoose plugin through [generator-mongoose-plugin](<https://github.com/huei90/generator-mongoose-plugin>).

Contributors

View all 100+ [contributors](https://github.com/learnboost/mongoose/graphs/contributors). Stand up and be counted as a [contributor](https://github.com/LearnBoost/mongoose/blob/master/CONTRIBUTING.md) too!

Live Examples

```
<a href="https://runnable.com/mongoose" target="_blank"></a>
```

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

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First, we need to define a connection. If your app uses only one database, you should use `mongoose.connect``. If you need to create additional connections, use `mongoose.createConnection``.

Both `connect`` and `createConnection`` take a `mongodb://` URI, or the parameters host, database, port, options`.`

```
```js  
var mongoose = require('mongoose');

mongoose.connect('mongodb://localhost/my_database');
```
```

Once connected, the `open` event is fired on the Connection` instance. If you're using mongoose.connect`, the Connection` is mongoose.connection`. Otherwise, mongoose.createConnection` return value is a Connection`.`

****Important!**** Mongoose buffers all the commands until it's connected to the database. This means that you don't have to wait until it connects to MongoDB in order to define models, run queries, etc.

Defining a Model

Models are defined through the `Schema` interface.`

```
```js  
var Schema = mongoose.Schema
```

```
, ObjectId = Schema.ObjectId;
```

```
var BlogPost = new Schema({
 author : ObjectId
 , title : String
 , body : String
 , date : Date
});
...
```

Aside from defining the structure of your documents and the types of data you're storing, a Schema handles the definition of:

- \* [Validators](<http://mongoosejs.com/docs/validation.html>) (async and sync)
- \* [Defaults]([http://mongoosejs.com/docs/api.html#schematype\\_SchemaType-default](http://mongoosejs.com/docs/api.html#schematype_SchemaType-default))
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- \* [Plugins](<http://mongoosejs.com/docs/plugins.html>)
- \* [pseudo-JOINs](<http://mongoosejs.com/docs/populate.html>)

The following example shows some of these features:

```
```js  
var Comment = new Schema({  
  name : { type: String, default: 'hahaha' }  
  , age : { type: Number, min: 18, index: true }  
  , bio : { type: String, match: /^[a-z]/ }  
  , date : { type: Date, default: Date.now }  
  , buff : Buffer  
});  
  
// a setter  
Comment.path('name').set(function (v) {  
  return capitalize(v);  
});  
  
// middleware  
Comment.pre('save', function (next) {  
  notify(this.get('email'));  
  next();  
});  
...
```

Take a look at the example in `examples/schema.js` for an end-to-end example of a typical setup.

Accessing a Model

Once we define a model through `mongoose.model('ModelName', mySchema)`, we can access it through the same function

```
```js
var myModel = mongoose.model('ModelName');
```
```

Or just do it all at once

```
```js
var MyModel = mongoose.model('ModelName', mySchema);
```
```

We can then instantiate it, and save it:

```
```js
var instance = new MyModel();
instance.my.key = 'hello';
instance.save(function (err) {
 //
});
```
```

Or we can find documents from the same collection

```
```js
MyModel.find({}, function (err, docs) {
 // docs.forEach
});
```
```

You can also `findOne`, `findById`, `update`, etc. For more details check out [the docs](<http://mongoosejs.com/docs/queries.html>).

****Important!**** If you opened a separate connection using `mongoose.createConnection()` but attempt to access the model through `mongoose.model('ModelName')` it will not work as expected since it is not hooked up to an active db connection. In this case access your model through the connection you created:

```
```js
var conn = mongoose.createConnection('your connection string')
 , MyModel = conn.model('ModelName', schema)
 , m = new MyModel;
m.save(); // works
```
```

vs

```
```js
var conn = mongoose.createConnection('your connection string')
, MyModel = mongoose.model('ModelName', schema)
, m = new MyModel;
m.save(); // does not work b/c the default connection object was never connected
```
```

Embedded Documents

In the first example snippet, we defined a key in the Schema that looks like:

```
```
comments: [Comments]
```
```

Where `Comments` is a `Schema` we created. This means that creating embedded documents is as simple as:

```
```js
// retrieve my model
var BlogPost = mongoose.model('BlogPost');

// create a blog post
var post = new BlogPost();

// create a comment
post.comments.push({ title: 'My comment' });

post.save(function (err) {
 if (!err) console.log('Success!');
});
```
```

The same goes for removing them:

```
```js
BlogPost.findById(myId, function (err, post) {
 if (!err) {
 post.comments[0].remove();
 post.save(function (err) {
 // do something
 });
 }
});
```
```

Embedded documents enjoy all the same features as your models. Defaults, validators, middleware. Whenever an

error occurs, it's bubbled to the `save()` error callback, so error handling is a snap!

Mongoose interacts with your embedded documents in arrays `_atomically_`, out of the box.

Middleware

See the [docs](<http://mongoosejs.com/docs/middleware.html>) page.

Intercepting and mutating method arguments

You can intercept method arguments via middleware.

For example, this would allow you to broadcast changes about your Documents every time someone `set`'s a path in your Document to a new value:

```
```js
schema.pre('set', function (next, path, val, type) {
 // `this` is the current Document
 this.emit('set', path, val);

 // Pass control to the next pre
 next();
});
```
```

Moreover, you can mutate the incoming `method` arguments so that subsequent middleware see different values for those arguments. To do so, just pass the new values to `next`:

```
```js
.pre(method, function firstPre (next, methodArg1, methodArg2) {
 // Mutate methodArg1
 next("altered-" + methodArg1.toString(), methodArg2);
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// pre declaration is chainable
.pre(method, function secondPre (next, methodArg1, methodArg2) {
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 // Passing no arguments to `next` automatically passes along the current argument values
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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
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new Schema({
 works: { type: Boolean }
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```
```

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

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1.454 mongoose 3.8.24

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 author : ObjectId
```

```
, title : String
, body : String
, date : Date
});
...

```

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// a setter
Comment.path('name').set(function (v) {
  return capitalize(v);
});

// middleware
Comment.pre('save', function (next) {
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instance.my.key = 'hello';
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});
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### ### Embedded Documents

In the first example snippet, we defined a key in the Schema that looks like:

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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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  works: { type: Boolean }
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  name: String
  , type: { type: String } // works. asset is an object with a type property
  }
});
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```

### ### 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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### ## License

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THE SOFTWARE IS PROVIDED 'AS IS', WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

## 1.459 morgan 1.2.2

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```
morgan
```

```
[![NPM version](https://badge.fury.io/js/morgan.svg)](http://badge.fury.io/js/morgan)
[![Build Status](https://travis-ci.org/expressjs/morgan.svg?branch=master)](https://travis-ci.org/expressjs/morgan)
[![Coverage
Status](https://img.shields.io/coveralls/expressjs/morgan.svg?branch=master)](https://coveralls.io/r/expressjs/morgan)
```

HTTP request logger middleware for node.js

> Named after [Dexter](http://en.wikipedia.org/wiki/Dexter\_Morgan), a show you should not watch until completion.

```
API
```

```
```js
var express = require('express')
var morgan = require('morgan')

var app = express()
app.use(morgan('combined'))
```
```

```
morgan(format, options)
```

Create a new morgan logger middleware function using the given `format` and `options`. The `format` argument may be a string of a predefined name (see below for the names), a string of a format string, or a function that will produce a log entry.

```
```js
// a pre-defined name
morgan('combined')

// a format string
morgan(':remote-addr :method :url')

// a custom function
morgan(function (req, res) {
  return req.method + ' ' + req.url
})
```
```

#### #### Options

Morgan accepts these properties in the options object.

#### #### buffer

Buffer duration before writing logs to the `stream`, defaults to `false`. When set to `true`, defaults to `1000 ms`.

#### #### immediate

Write log line on request instead of response. This means that a requests will be logged even if the server crashes, but data from the response cannot be logged (like the response code).

#### #### skip

Function to determine if logging is skipped, defaults to `false`. This function will be called as `skip(req, res)`.

```
```js
// only log error responses
morgan('combined', {
  skip: function (req, res) { return res.statusCode < 400 }
})
```
```

#### #### stream

Output stream for writing log lines, defaults to `process.stdout`.

#### #### Predefined Formats

There are various pre-defined formats provided:

##### ##### combined

Standard Apache combined log output.

...

```
:remote-addr - :remote-user [:date] ":method :url HTTP/:http-version" :status :res[content-length] ":referrer" ":user-agent"
```

...

##### ##### common

Standard Apache common log output.

...

```
:remote-addr - :remote-user [:date] ":method :url HTTP/:http-version" :status :res[content-length]
```

...

##### ##### dev

Concise output colored by response status for development use. The `:status`` token will be colored red for server error codes, yellow for client error codes, cyan for redirection codes, and uncolored for all other codes.

...

```
:method :url :status :response-time ms - :res[content-length]
```

...

##### ##### short

Shorter than default, also including response time.

...

```
:remote-addr :remote-user :method :url HTTP/:http-version :status :res[content-length] - :response-time ms
```

...

##### ##### tiny

The minimal output.

...

```
:method :url :status :res[content-length] - :response-time ms
```

...



#### #### Tokens

```
- `:req[header]` ex: `:req[Accept]`
- `:res[header]` ex: `:res[Content-Length]`
- `:http-version`
- `:response-time`
- `:remote-addr`
- `:remote-user`
- `:date`
- `:method`
- `:url`
- `:referrer`
- `:user-agent`
- `:status`
```

To define a token, simply invoke `morgan.token()` with the name and a callback function. The value returned is then available as `:type` in this case:

```
```js  
morgan.token('type', function(req, res){ return req.headers['content-type']; })  
```
```

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## 1.460 morgan 1.0.0

## 1.460.1 Available under license :

# Connect Logger

Connect's logging middleware. Named after [Dexter]([http://en.wikipedia.org/wiki/Dexter\\_Morgan](http://en.wikipedia.org/wiki/Dexter_Morgan)), a show you should not watch until completion. You may view the old docs at <http://www.senchalabs.org/connect/logger.html>. Otherwise, view the source code's JSDocs.

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## 1.461 morgan 1.5.2

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## 1.462 mpath 0.1.1

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## 1.464 mpromise 0.4.3

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## 1.466 mquery 0.8.0

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# 1.468 ms 0.7.0

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# 1.469 ms 0.1.0

## 1.469.1 Available under license :

```
ms.js
```

Ever find yourself doing math in your head or writing `1000 * 60 * 60 ...`?`  
Don't want to add obtrusive `Number`` prototype extensions to your reusable / distributable modules and projects?

``ms`` is a tiny utility that you can leverage when your application needs to accept a number of milliseconds as a parameter.

If a number is supplied to ``ms``, it returns it immediately (e.g:  
If a string that contains the number is supplied, it returns it immediately as a number (e.g: it returns `100`` for ``100``).

However, if you pass a string with a number and a valid unit, the number of equivalent ms is returned.

```
```js
ms('1d') // 86400000
ms('10h') // 36000000
ms('2h') // 7200000
ms('1m') // 60000
ms('5ms') // 5000
ms('100') // '100'
ms(100) // 100
```
```

```
How to use
```

```
Node
```

```
```js
require('ms')
```
```

```
Browser
```

```
```html
<script src="ms.js"></script>
```
```

## Credits

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## 1.470 ms 0.6.2

### 1.470.1 Available under license :

# ms.js: miliseconds conversion utility

```
```js
ms('1d') // 86400000
ms('10h') // 36000000
ms('2h') // 7200000
ms('1m') // 60000
ms('5s') // 5000
ms('100') // 100
...

```

```
```js
ms(60000) // "1m"
ms(2 * 60000) // "2m"
ms(ms('10 hours')) // "10h"
...

```

```
```js
```



```
ms(60000, { long: true }) // "1 minute"
ms(2 * 60000, { long: true }) // "2 minutes"
ms(ms('10 hours', { long: true })) // "10 hours"
...

```

- Node/Browser compatible. Published as `ms` in NPM.
- If a number is supplied to `ms`, a string with a unit is returned.
- If a string that contains the number is supplied, it returns it as a number (e.g: it returns `100` for `100`).
- If you pass a string with a number and a valid unit, the number of equivalent ms is returned.

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1.471 ms 0.7.1

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1.472 multiparty 2.2.0

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1.473 multiparty 3.3.2

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1.474 muri 0.3.1

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1.475 mute-stream 0.0.4

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1.476 mv 0.0.5

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```
{
  "name": "mv",
  "version": "0.0.5",
  "description": "fs.rename but works across devices. same as the unix utility 'mv'",
  "main": "index.js",
  "scripts": {
    "test": "mocha"
  },
  "repository": {
    "type": "git",
    "url": "git://github.com/superjoe30/node-mv.git"
  },
  "keywords": [
    "mv",
    "move",
    "rename",
    "device",
    "recursive",
    "folder"
  ],
  "author": "Andrew Kelley",
  "license": "BSD",
  "engines": {
    "node": ">=0.8.0"
  },
  "devDependencies": {
    "proxyquire": "~0.3.4",
    "mocha": "~1.6.0"
  }
}
```

1.477 mz 1.3.0

1.477.1 Available under license :

MZ - Modernize node.js

```
[![NPM version][npm-image]][npm-url]
[![Build status][travis-image]][travis-url]
[![Test coverage][coveralls-image]][coveralls-url]
[![Dependency Status][david-image]][david-url]
[![License][license-image]][license-url]
[![Downloads][downloads-image]][downloads-url]
```

[![Gittip][gittip-image]][gittip-url]

Modernize node.js to current ECMAScript specifications!

node.js will not update their API to ES6+ [for a while](<https://github.com/joyent/node/issues/7549>).

This library is a wrapper for various aspects of node.js' API.

Installation and Usage

Set `mz` as a dependency and install it.

```
``bash
npm i mz
``
```

Then prefix the relevant `require()`s with `mz`:

```
``js
var fs = require('mz/fs')

fs.exists(__filename).then(function (exists) {
  if (exists) // do something
})
``
```

Personally, I use this with generator-based control flow libraries such as `co`(<https://github.com/visionmedia/co>) so I don't need to use implementation-specific wrappers like `co-fs`(<https://github.com/visionmedia/co-fs>).

```
``js
var co = require('co')
var fs = require('mz/fs')

co(function* () {
  if (yield fs.exists(__filename)) // do something
})()
``
```

Promisification

Many node methods are converted into promises.

Any properties that are deprecated or aren't asynchronous will simply be proxied.

The modules wrapped are:

- `child_process`
- `crypto`
- `dns`
- `fs`
- `zlib`

```
```js
var exec = require('mz/child_process').exec

exec('node --version').then(function (stdout) {
 console.log(stdout)
})
```
```

Promise Engine

If you've installed [bluebird][bluebird],
[bluebird][bluebird] will be used.
`mz` does not install [bluebird][bluebird] for you.

Otherwise, if you're using a node that has native v8 Promises (v0.11.13+),
then that will be used.

Otherwise, this library will crash the process and exit,
so you might as well install [bluebird][bluebird] as a dependency!

FAQ

Can I use this in production?

If you do, you should probably install [bluebird][bluebird] as
native v8 promises are still pretty raw.

Will this make my app faster?

Nope, probably slower actually.

Can I add more features?

Sure.
Open an issue.

Currently, the plans are to eventually support:

- ECMAScript7 Streams

[bluebird]: <https://github.com/petkaantonov/bluebird>

[npm-image]: <https://img.shields.io/npm/v/mz.svg?style=flat-square>

[npm-url]: <https://npmjs.org/package/mz>

[github-tag]: <http://img.shields.io/github/tag/normalize/mz.svg?style=flat-square>

[github-url]: <https://github.com/normalize/mz/tags>

[travis-image]: <https://img.shields.io/travis/normalize/mz.svg?style=flat-square>

[travis-url]: <https://travis-ci.org/normalize/mz>

[coveralls-image]: <https://img.shields.io/coveralls/normalize/mz.svg?style=flat-square>

[coveralls-url]: <https://coveralls.io/r/normalize/mz?branch=master>

[david-image]: <http://img.shields.io/david/normalize/mz.svg?style=flat-square>

[david-url]: <https://david-dm.org/normalize/mz>

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[gittip-image]: <https://img.shields.io/gittip/jonathanong.svg?style=flat-square>

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1.478 nan 1.4.3

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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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1.501 node-logger 2.0.0

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```
"author": {
```

1.502 node-ssh-exec 0.1.0

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```
{
  "name": "node-ssh-exec",
  "version": "0.1.0",
  "description": "A simple ssh2 wrapper to exec shell commands on remotes via ssh using Node.js.",
  "main": "lib/ssh-exec.js",
  "scripts": {
    "test": "mocha --reporter spec --timeout 60s test/"
  },
  "repository": {
    "type": "git",
    "url": "http://github.com/adriano-di-giovanni/node-ssh-exec.git"
  },
  "author": "Adriano Di Giovanni <me@adrianodigiovanni.com> (http://adrianodigiovanni.com/)",
  "license": "MIT",
  "bugs": {
    "url": "https://github.com/adriano-di-giovanni/node-ssh-exec/issues"
  },
  "homepage": "https://github.com/adriano-di-giovanni/node-ssh-exec",
  "keywords": [
    "node",
    "ssh",
    "ssh2",
    "exec",
    "remote"
  ],
  "dependencies": {
    "underscore": "^1.6.0",
    "ssh2": "^0.3.2"
  }
}
```

1.503 node-uuid 1.4.2

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1.506 node-zookeeper-client 0.2.1

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1.507 nodejs 0.10.32 :1.e17

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""

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```

- HTTP Parser, located at `deps/http_parser`. HTTP Parser's license follows:

```

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```

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```

```
"""
```

```
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```

```
"""
```

```
- tools/gyp. GYP is a meta-build system. GYP's license follows:
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```
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- Zlib at deps/zlib. zlib's license follows:

""

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.4, March 14th, 2010
```

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Jean-loup Gailly
Mark Adler

```
*/
```

""

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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation

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This package is a JavaScript porting of `wcwidth()` implementation
[by Markus Kuhn](<http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c>).

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.4, March 14th, 2010

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1.518 nodejs-chmodr 0.1.0 :4.el7

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1.531 nodejs-fstream 0.1.24 :1.e17

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1.543 nodejs-json-stringify-safe 5.0.0 :1.el7

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1.580 nodejs_ArtisticLicense2.0 0.10.32 :1.e17

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1.586 npm 1.3.6 :5.el7

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1.600 optimist 0.3.7

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1.601 options 0.0.6

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```
# options.js #
```

A very light-weight in-code option parsers for node.js.

```
## Usage ##
```

```
``` js
```

```
var Options = require("options");
```

```
// Create an Options object
```

```

function foo(options) {
 var default_options = {
 foo : "bar"
 };

 // Create an option object with default value
 var opts = new Options(default_options);

 // Merge options
 opts = opts.merge(options);

 // Reset to default value
 opts.reset();

 // Copy selected attributes out
 var seled_att = opts.copy("foo");

 // Read json options from a file.
 opts.read("options.file"); // Sync
 opts.read("options.file", function(err){ // Async
 if(err){ // If error occurs
 console.log("File error.");
 }else{
 // No error
 }
 });

 // Attributes defined or not
 opts.isDefinedAndNonNull("foobar");
 opts.isDefined("foobar");
}

```

...

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## 1.602 os-monitor 0.1.5

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```
{
 "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": {}
}
```

# 1.603 packet 0.0.6

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## 1.605 parseurl 1.0.1

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```
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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```

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# 1.606 path 0.4.9

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```
"author": "Joyent (http://www.joyent.com)",
"url": "git://github.com/coolaj86/nodejs-libs-4-browser.git"
```

# 1.607 path 0.11.14

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# 1.608 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');  
...  
### pathToRegExp(path, keys, options)
```

- **path** A string in the express format, an array of such strings, or a regular expression
- **keys** An array to be populated with the keys present in the url. Once the function completes, this will be an array of strings.
- **options**
 - **options.sensitive** Defaults to false, set this to true to make routes case sensitive
 - **options.strict** Defaults to false, set this to true to make the trailing slash matter.
 - **options.end** Defaults to true, set this to false to only match the prefix of the URL.

```

```javascript
var keys = [];
var exp = pathToRegexp('/foo/:bar', keys);
//keys = ['bar']
//exp = /^\/foo\/(?:([^\/]++))\/?$\/i
```

```

Live Demo

You can see a live demo of this library in use at [express-route-tester](http://forbeslindesay.github.com/express-route-tester/).

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1.609 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');
```

```

```

#### pathToRegexp(path, keys, options)

```

- **path** A string in the express format, an array of such strings, or a regular expression
- **keys** An array to be populated with the keys present in the url. Once the function completes, this will be an array of strings.
- **options**
 - **options.sensitive** Defaults to false, set this to true to make routes case sensitive
 - **options.strict** Defaults to false, set this to true to make the trailing slash matter.
 - **options.end** Defaults to true, set this to false to only match the prefix of the URL.

```
````javascript
var keys = [];
var exp = pathToRegexp('/foo/:bar', keys);
//keys = ['bar']
//exp = /^\/foo\/(?:([^\/]++))\/?$\/i
````
```

Live Demo

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1.610 pause 0.0.1

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1.611 piranha 0.8.6 :4.el7.centos.2

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1.613 pkginfo 0.2.3

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"author": "Charlie Robbins <charlie.robbins@gmail.com>",

"url": "<http://github.com/indexzero/node-pkginfo.git>"

1.614 policyfile 0.0.4

1.614.1 Available under license :

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1.615 portchecker 0.1.2

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```
"author": "danielzzz <daniel@zelisko.net> (http://daniel.zelisko.net)",  
"url": "git://github.com/danielzzz/node-portchecker.git"
```

1.616 posix 2.0.0

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1.617 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"
}
```

1.618 process 0.6.0

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1.620 promise 2.0.0

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[![Build Status](https://travis-ci.org/then/promise.png)](https://travis-ci.org/then/promise)

promise

This a bare bones [Promises/A+](<http://promises-aplus.github.com/promises-spec/>) implementation.

It is designed to get the basics spot on correct, so that you can build extended promise implementations on top of it.

Installation

Server:

```
$ npm install promise
```

Client:

```
$ component install then/promise
```

API

In the example below shows how you can load the promise library (in a way that works on both client and server). It then demonstrates creating a promise from scratch. You simply call `new Promise(fn)`. There is a complete specification for what is returned by this method in [Promises/A+](<http://promises-aplus.github.com/promises-spec/>).

```
```javascript
var Promise = require('promise');

var promise = new Promise(function (resolve, reject) {
 get('http://www.google.com', function (err, res) {
 if (err) reject(err);
 else resolve(res);
 });
});
```
```

Extending Promises

There are three options for extending the promises created by this library.

Inheritance

You can use inheritance if you want to create your own complete promise library with this as your basic starting point, perfect if you have lots of cool features you want to add. Here is an example of a promise library called `Awesome`, which is built on top of `Promise` correctly.

```
```javascript
var Promise = require('promise');
function Awesome(fn) {
 if (!(this instanceof Awesome)) return new Awesome(fn);
```

```

Promise.call(this, fn);
}
Awesome.prototype = Object.create(Promise.prototype);
Awesome.prototype.constructor = Awesome;

//Awesome extension
Awesome.prototype.spread = function (cb) {
 return this.then(function (arr) {
 return cb.apply(this, arr);
 })
};
```

```

N.B. if you fail to set the prototype and constructor properly or fail to do Promise.call, things can fail in really subtle ways.

Wrap

This is the nuclear option, for when you want to start from scratch. It ensures you won't be impacted by anyone who is extending the prototype (see below).

```

```javascript
function Uber(fn) {
 if (!(this instanceof Uber)) return new Uber(fn);
 var _prom = new Promise(fn);
 this.then = _prom.then;
}

Uber.prototype.spread = function (cb) {
 return this.then(function (arr) {
 return cb.apply(this, arr);
 })
};
```

```

Extending the Prototype

In general, you should never extend the prototype of this promise implementation because your extensions could easily conflict with someone else's extensions. However, this organisation will host a library of extensions which do not conflict with each other, so you can safely enable any of those. If you think of an extension that we don't provide and you want to write it, submit an issue on this repository and (if I agree) I'll set you up with a repository and give you permission to commit to it.

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1.621 prompt 0.2.14

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1.622 proxy-addr 1.0.6

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1.626 puppet 3.7.4 :1.e17

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#   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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#
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1.631 python-lxml_GPLv2 3.2.1 :4.e17

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (see <http://www.digicool.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Digital Creations is a sponsoring member of the PSF.

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| Release from | Derived from | Year | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|-------|---------------------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |

| | | | | |
|-------|-----------|------|------------|-----|
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | no |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
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1.634 python-pip 1.3.1 :4.e17

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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1.636 python-prettytable 0.7.2 :1.e17

1.636.1 Available under license :

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```

1.637 python-pygments_GPLv3 1.4 :9.e17

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V# New ports collection makefile for: python25\u000a
p364
tp365
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V
tp366
a(g24
V# Date created: 3 July 2003\u000a
p367
tp368
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tp369
a(g24
V# Whom: Hye-Shik Chang <perky@FreeBSD.org>\u000a
p370
tp371
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V
tp372
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V#\u000a
p373
tp374
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V# \$FreeBSD: ports/lang/python25/Makefile.v 1.145 2007/10/03 23:22:04 edwin Exp \$\u000a
p376
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VCONFIGURE_TARGET
p501
tp502
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V=
tp503
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V
tp504
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V--build
p505
tp506
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tp509
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VMACHINE_ARCH
p510
tp511
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V}
tp512
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V-portbld-freebsd
p513
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V../configure

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V# must be relative\u000a

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VCONFIGURE_ENV

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V=

tp532

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tp533

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VOPT

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tp535

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tp536

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V"\${CFLAGS}"

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VSVNVERSION

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V=
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a(g6
V
tp559
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V's,smtpd,smtpd\${PYTHON_VER},'
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tp753
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p761
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tp763
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tp764
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VTHREADS
p765
tp766
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V
tp767
a(g255
V"Enable thread support"
p768
tp769
a(g6
V

tp770
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Von
p771
tp772
a(g6
V
tp773
a(g262
V\u005c\u000a
p774
tp775
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V
p776
tp777
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VHUGE_STACK_SIZE
p778
tp779
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V
tp780
a(g255
V"Use a larger thread stack"
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tp782
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V
tp783
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p784
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tp786
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p789
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VUCS4
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V"Use UCS4 for unicode support"
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Von
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VPYALLOC
p804
tp805
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V"Use python's internal malloc"
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a(g6
VIPV6
p817
tp818
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V"Enable floating point exception handling"
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V
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Voff
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V\u000a\u000a
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V.include <bsd.port.pre.mk>\u000a
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tp842
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V.if \${PYTHON_VERSION} == \${PYTHON_DEFAULT_VERSION}\u000a
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VPLIST_SUB+
p862
tp863
a(g353
V=
tp864
a(g6
V
tp865
a(g100
VIF_DEFAULT
p866
tp867
a(g353
V=
tp868
a(g255
V""
p869
tp870
a(g6
V\u000a
tp871
a(g27
V.else\u000a
p872
tp873
a(g6
V
tp874
a(g6
VPLIST_SUB+
p875
tp876
a(g353

V=
tp877
a(g6
V
tp878
a(g100
VIF_DEFAULT
p879
tp880
a(g353
V=
tp881
a(g255
V"@comment "
p882
tp883
a(g6
V\u000a
tp884
a(g27
V.endif\u000a
p885
tp886
a(g6
V\u000a
tp887
a(g24
V# workaround for a bug in base curses.h.\u000a
p888
tp889
a(g6
V
tp890
a(g6
VCFLAGS+
p891
tp892
a(g353
V=
tp893
a(g6
V
tp894
a(g6
V-D__wchar_t
p895
tp896
a(g353

V=
tp897
a(g6
Vwchar_t
p898
tp899
a(g6
V\u000a\u000a
p900
tp901
a(g27
V.if !defined(WITHOUT_THREADS)\u000a
p902
tp903
a(g6
V
tp904
a(g6
VCONFIGURE_ARGS+
p905
tp906
a(g353
V=
tp907
a(g6
V
tp908
a(g6
V--with-threads
p909
tp910
a(g6
V\u000a
tp911
a(g6
VCFLAGS+
p912
tp913
a(g353
V=
tp914
a(g6
V
p915
tp916
a(g138
V\${
p917

tp918
a(g100
VPTHREAD_CFLAGS
p919
tp920
a(g138
V}
tp921
a(g6
V\u000a
tp922
a(g27
V.if defined(WITHOUT_HUGE_STACK_SIZE)\u000a
p923
tp924
a(g6
V
tp925
a(g6
VCFLAGS+
p926
tp927
a(g353
V=
tp928
a(g6
V
p929
tp930
a(g6
V-DTHREAD_STACK_SIZE
p931
tp932
a(g353
V=
tp933
a(g6
V0x20000
p934
tp935
a(g6
V\u000a
tp936
a(g27
V.else\u000a
p937
tp938
a(g6

V
tp939
a(g6
VCFLAGS+
p940
tp941
a(g353
V=
tp942
a(g6
V
p943
tp944
a(g6
V-DTHREAD_STACK_SIZE
p945
tp946
a(g353
V=
tp947
a(g6
V0x100000
p948
tp949
a(g6
V\u000a
tp950
a(g27
V.endif # defined(WITHOUT_HUGE_STACK_SIZE)\u000a
p951
tp952
a(g6
V
tp953
a(g6
VCONFIGURE_ENV+
p954
tp955
a(g353
V=
tp956
a(g6
V
p957
tp958
a(g100
VLDFLAGS
p959

tp960
a(g353
V=
tp961
a(g255
V"\${PTHREAD_LIBS} \${LDFLAGS}"
p962
tp963
a(g6
V\u000a
tp964
a(g27
V.else\u000a
p965
tp966
a(g6
V
tp967
a(g6
VCONFIGURE_ARGS+
p968
tp969
a(g353
V=
tp970
a(g6
V
tp971
a(g6
V--without-threads
p972
tp973
a(g6
V\u000a
tp974
a(g27
V.if defined(LDFLAGS)\u000a
p975
tp976
a(g6
V
tp977
a(g6
VCONFIGURE_ENV+
p978
tp979
a(g353
V=

tp980
a(g6
V
p981
tp982
a(g100
VLDFLAGS
p983
tp984
a(g353
V=
tp985
a(g255
V"\${LDFLAGS}"
p986
tp987
a(g6
V\u000a
tp988
a(g27
V.endif # defined(LDFLAGS)\u000a
p989
tp990
a(g6
V
tp991
a(g27
V.endif # !defined(WITHOUT_THREADS)\u000a
p992
tp993
a(g6
V\u000a
tp994
a(g27
V.if !defined(WITHOUT_UCS4) && !defined(WITH_UCS2)\u000a
p995
tp996
a(g6
V
tp997
a(g6
VCONFIGURE_ARGS+
p998
tp999
a(g353
V=
tp1000
a(g6

V
tp1001
a(g6
V--enable-unicode
p1002
tp1003
a(g353
V=
tp1004
a(g6
Vucs4
p1005
tp1006
a(g6
V\u000a
tp1007
a(g27
V.endif\u000a
p1008
tp1009
a(g6
V\u000a
tp1010
a(g27
V.if defined(WITHOUT_PYMALLOC)\u000a
p1011
tp1012
a(g6
V
tp1013
a(g6
VCONFIGURE_ARGS+
p1014
tp1015
a(g353
V=
tp1016
a(g6
V
p1017
tp1018
a(g6
V--without-pymalloc
p1019
tp1020
a(g6
V\u000a
tp1021

a(g27
V.endif\u000a
p1022
tp1023
a(g6
V\u000a
tp1024
a(g27
V.if \${ARCH} == i386\u000a
p1025
tp1026
a(g6
V
tp1027
a(g6
VPLIST_SUB+
p1028
tp1029
a(g353
V=
tp1030
a(g6
V
tp1031
a(g100
VX86_ONLY
p1032
tp1033
a(g353
V=
tp1034
a(g255
V""
p1035
tp1036
a(g6
V\u000a
tp1037
a(g27
V.else\u000a
p1038
tp1039
a(g6
V
tp1040
a(g6
VPLIST_SUB+
p1041

tp1042
a(g353
V=
tp1043
a(g6
V
tp1044
a(g100
VX86_ONLY
p1045
tp1046
a(g353
V=
tp1047
a(g255
V"@comment "
p1048
tp1049
a(g6
V\u000a
tp1050
a(g27
V.endif\u000a
p1051
tp1052
a(g6
V
tp1053
a(g27
V.if \${ARCH} == amd64 || \${ARCH} == ia64 || \${ARCH} == sparc64 || \${ARCH} == alpha\u000a
p1054
tp1055
a(g6
V
tp1056
a(g6
VPLIST_SUB+
p1057
tp1058
a(g353
V=
tp1059
a(g6
V
p1060
tp1061
a(g100
V32BIT_ONLY

p1062
tp1063
a(g353
V=
tp1064
a(g255
V"@comment "
p1065
tp1066
a(g6
V\u000a
tp1067
a(g27
V.else\u000a
p1068
tp1069
a(g6
V
tp1070
a(g6
VPLIST_SUB+
p1071
tp1072
a(g353
V=
tp1073
a(g6
V
p1074
tp1075
a(g100
V32BIT_ONLY
p1076
tp1077
a(g353
V=
tp1078
a(g255
V""
p1079
tp1080
a(g6
V\u000a
tp1081
a(g27
V.endif\u000a
p1082
tp1083

```
a(g6
V
tp1084
a(g27
V.if ${ARCH} == sparc64\u000a
p1085
tp1086
a(g6
V
tp1087
a(g6
VCFLAGS+
p1088
tp1089
a(g353
V=
tp1090
a(g6
V
p1091
tp1092
a(g6
V-DPYTHON_DEFAULT_RECURSION_LIMIT
p1093
tp1094
a(g353
V=
tp1095
a(g6
V900
p1096
tp1097
a(g6
V\u000a
tp1098
a(g27
V.endif\u000a
p1099
tp1100
a(g6
V\u000a
tp1101
a(g27
V.if !exists(/usr/bin/ypcat) # the world with NO_NIS\u000a
p1102
tp1103
a(g6
V
```

tp1104
a(g6
VPLIST_SUB+
p1105
tp1106
a(g353
V=
tp1107
a(g6
V
tp1108
a(g100
VNO_NIS
p1109
tp1110
a(g353
V=
tp1111
a(g255
V"@comment "
p1112
tp1113
a(g6
V\u000a
tp1114
a(g27
V.else\u000a
p1115
tp1116
a(g6
V
tp1117
a(g6
VPLIST_SUB+
p1118
tp1119
a(g353
V=
tp1120
a(g6
V
tp1121
a(g100
VNO_NIS
p1122
tp1123
a(g353
V=

tp1124
a(g255
V""
p1125
tp1126
a(g6
V\u000a
tp1127
a(g27
V.endif\u000a
p1128
tp1129
a(g6
V\u000a
tp1130
a(g27
V.if !defined(WITHOUT_IPV6)\u000a
p1131
tp1132
a(g6
V
tp1133
a(g6
VCONFIGURE_ARGS+
p1134
tp1135
a(g353
V=
tp1136
a(g6
V
tp1137
a(g6
V--enable-ipv6
p1138
tp1139
a(g6
V\u000a
tp1140
a(g27
V.else\u000a
p1141
tp1142
a(g6
V
tp1143
a(g6
VCONFIGURE_ARGS+

p1144
tp1145
a(g353
V=
tp1146
a(g6
V
tp1147
a(g6
V--disable-ipv6
p1148
tp1149
a(g6
V\u000a
tp1150
a(g27
V.endif\u000a
p1151
tp1152
a(g6
V\u000a
tp1153
a(g27
V.if defined(WITH_FPECTL)\u000a
p1154
tp1155
a(g6
V
tp1156
a(g6
VCONFIGURE_ARGS+
p1157
tp1158
a(g353
V=
tp1159
a(g6
V
tp1160
a(g6
V--with-fpectl
p1161
tp1162
a(g6
V\u000a
tp1163
a(g27
V.endif\u000a

p1164
tp1165
a(g6
V\u000a
tp1166
a(g27
V.if \${OSVERSION} >= 700000\u000a
p1167
tp1168
a(g6
V
tp1169
a(g100
VPLATFORMS
p1170
tp1171
a(g353
V=
tp1172
a(g6
Vplat-freebsd4
p1173
tp1174
a(g6
V
tp1175
a(g6
Vplat-freebsd5
p1176
tp1177
a(g6
V
tp1178
a(g6
Vplat-freebsd6
p1179
tp1180
a(g6
V\u000a
tp1181
a(g27
V.elif \${OSVERSION} >= 600000\u000a
p1182
tp1183
a(g6
V
tp1184
a(g100

VPLATFORMS

p1185

tp1186

a(g353

V=

tp1187

a(g6

Vplat-freebsd4

p1188

tp1189

a(g6

V

tp1190

a(g6

Vplat-freebsd5

p1191

tp1192

a(g6

V

tp1193

a(g6

Vplat-freebsd7

p1194

tp1195

a(g6

V\u000a

tp1196

a(g27

V.else\u000a

p1197

tp1198

a(g6

V

tp1199

a(g100

VPLATFORMS

p1200

tp1201

a(g353

V=

tp1202

a(g6

Vplat-freebsd4

p1203

tp1204

a(g6

V

tp1205

a(g6
Vplat-freebsd6
p1206
tp1207
a(g6
V
tp1208
a(g6
Vplat-freebsd7
p1209
tp1210
a(g6
V\u000a
tp1211
a(g27
V.endif\u000a
p1212
tp1213
a(g6
V\u000a
tp1214
a(g6
Vpre-patch:
p1215
tp1216
a(g6
V\u000a
p1217
tp1218
a(g138
V\${
p1219
tp1220
a(g100
VMKDIR
p1221
tp1222
a(g138
V}
tp1223
a(g6
V
tp1224
a(g138
V\${
p1225
tp1226
a(g100

VWRKSRRC
p1227
tp1228
a(g138
V}
tp1229
a(g6
V
tp1230
a(g138
V\${
p1231
tp1232
a(g100
VSHARED_WRKSRRC
p1233
tp1234
a(g138
V}
tp1235
a(g6
V/Modules
p1236
tp1237
a(g6
V\u000a
p1238
tp1239
a(g138
V\${
p1240
tp1241
a(g100
VSED
p1242
tp1243
a(g138
V}
tp1244
a(g6
V
tp1245
a(g6
V-e
p1246
tp1247
a(g6
V

tp1248
a(g281
V'1s,^.*\$\$,#!\${PREFIX}/bin/\${PYTHON_VERSION},'
p1249
tp1250
a(g6
V
tp1251
a(g262
V\u005c\u000a
p1252
tp1253
a(g6
V
p1254
tp1255
a(g138
V\${
p1256
tp1257
a(g100
VPATCH_WRKSRC
p1258
tp1259
a(g138
V}
tp1260
a(g6
V/Tools/scripts/pydoc
p1261
tp1262
a(g6
V
tp1263
a(g6
V>
tp1264
a(g6
V
tp1265
a(g138
V\${
p1266
tp1267
a(g100
VWRKDIR
p1268
tp1269

a(g138
V}
tp1270
a(g6
V/pydoc2.5
p1271
tp1272
a(g6
V\u000a
p1273
tp1274
a(g138
V\${
p1275
tp1276
a(g100
VSED
p1277
tp1278
a(g138
V}
tp1279
a(g6
V
tp1280
a(g6
V-e
p1281
tp1282
a(g6
V
tp1283
a(g281
V'1s,^.*\$\$,#!\${PREFIX}/bin/\${PYTHON_VERSION},'
p1284
tp1285
a(g6
V
tp1286
a(g262
V\u005c\u000a
p1287
tp1288
a(g6
V
p1289
tp1290
a(g138

V\${
p1291
tp1292
a(g100
VPATCH_WRKSRC
p1293
tp1294
a(g138
V}
tp1295
a(g6
V/Tools/scripts/idle
p1296
tp1297
a(g6
V
tp1298
a(g6
V>
tp1299
a(g6
V
tp1300
a(g138
V\${
p1301
tp1302
a(g100
VWRKDIR
p1303
tp1304
a(g138
V}
tp1305
a(g6
V/idle2.5
p1306
tp1307
a(g6
V\u000a
p1308
tp1309
a(g138
V\${
p1310
tp1311
a(g100
VSED

p1312
tp1313
a(g138
V}
tp1314
a(g6
V
tp1315
a(g6
V-e
p1316
tp1317
a(g6
V
tp1318
a(g281
V'1s,^.*\$\$,#!\${PREFIX}/bin/\${PYTHON_VERSION},'
p1319
tp1320
a(g6
V
tp1321
a(g262
V\u005c\u000a
p1322
tp1323
a(g6
V
p1324
tp1325
a(g138
V\${
p1326
tp1327
a(g100
VPATCH_WRKSRC
p1328
tp1329
a(g138
V}
tp1330
a(g6
V/Lib/smtpd.py
p1331
tp1332
a(g6
V
tp1333

a(g6
V>
tp1334
a(g6
V
tp1335
a(g138
V\${
p1336
tp1337
a(g100
VWRKDIR
p1338
tp1339
a(g138
V}
tp1340
a(g6
V/smtpd2.5.py
p1341
tp1342
a(g6
V\u000a
p1343
tp1344
a(g138
V\${
p1345
tp1346
a(g100
VREINPLACE_CMD
p1347
tp1348
a(g138
V}
tp1349
a(g6
V
tp1350
a(g6
V-e
p1351
tp1352
a(g6
V
tp1353
a(g262
V\u0005c\u000a

p1354
tp1355
a(g6
V
p1356
tp1357
a(g281
V's,/usr/doc/python-docs-,\${PREFIX}/share/doc/python,g'
p1358
tp1359
a(g6
V
tp1360
a(g262
V\u005c\u000a
p1361
tp1362
a(g6
V
p1363
tp1364
a(g138
V\${
p1365
tp1366
a(g100
VPATCH_WRKSRC
p1367
tp1368
a(g138
V}
tp1369
a(g6
V/Lib/pydoc.py
p1370
tp1371
a(g6
V\u000a
p1372
tp1373
a(g138
V\${
p1374
tp1375
a(g100
VREINPLACE_CMD
p1376
tp1377

a(g138
V}
tp1378
a(g6
V
tp1379
a(g6
V-e
p1380
tp1381
a(g6
V
tp1382
a(g262
V\u005c\u000a
p1383
tp1384
a(g6
V
p1385
tp1386
a(g281
V's|^)\u005c(*prefixes = .*\u005c)\u005c]\$\$\u005c1, "{\$X11BASE}"]g'
p1387
tp1388
a(g6
V
tp1389
a(g262
V\u005c\u000a
p1390
tp1391
a(g6
V
p1392
tp1393
a(g138
V\${
p1394
tp1395
a(g100
VPATCH_WRKSRC
p1396
tp1397
a(g138
V}
tp1398
a(g6

V/Lib/site.py
p1399
tp1400
a(g6
V\u000a
p1401
tp1402
a(g138
V\${
p1403
tp1404
a(g100
VREINPLACE_CMD
p1405
tp1406
a(g138
V}
tp1407
a(g6
V
tp1408
a(g6
V-e
p1409
tp1410
a(g6
V
tp1411
a(g262
V\u005c\u000a
p1412
tp1413
a(g6
V
p1414
tp1415
a(g281
V's|^ \u005c(..ASDLGEN.*\u005c)\$ \$ \${TRUE} |g'
p1416
tp1417
a(g6
V
tp1418
a(g262
V\u005c\u000a
p1419
tp1420
a(g6

V
p1421
tp1422
a(g138
V\${
p1423
tp1424
a(g100
VPATCH_WRKSRC
p1425
tp1426
a(g138
V}
tp1427
a(g6
V/Makefile.pre.in
p1428
tp1429
a(g6
V\u000a\u000a
p1430
tp1431
a(g138
V\${
p1432
tp1433
a(g100
VREINPLACE_CMD
p1434
tp1435
a(g138
V}
tp1436
a(g6
V
tp1437
a(g6
V-e
p1438
tp1439
a(g6
V
tp1440
a(g262
V\u005c\u000a
p1441
tp1442
a(g6

V
p1443
tp1444
a(g281
V's|*\u005c(..INSTALL_SCRIPT.*\u005c)python-config\$\$|#port \u005c1'
p1445
tp1446
a(g6
V
tp1447
a(g262
V\u005c\u000a
p1448
tp1449
a(g6
V
p1450
tp1451
a(g138
V\${
p1452
tp1453
a(g100
VPATCH_WRKSRC
p1454
tp1455
a(g138
V}
tp1456
a(g6
V/Makefile.pre.in
p1457
tp1458
a(g6
V\u000a\u000a
p1459
tp1460
a(g138
V\${
p1461
tp1462
a(g100
VSED
p1463
tp1464
a(g138
V}
tp1465

a(g6
V
tp1466
a(g6
V-e
p1467
tp1468
a(g6
V
tp1469
a(g281
V's|^#!.*|#!\${PREFIX}/bin/\${PYTHON_VERSION}!'
p1470
tp1471
a(g6
V
tp1472
a(g262
V\u005c\u000a
p1473
tp1474
a(g6
V
p1475
tp1476
a(g138
V\${
p1477
tp1478
a(g100
VPATCH_WRKSRC
p1479
tp1480
a(g138
V}
tp1481
a(g6
V/Misc/python-config.in
p1482
tp1483
a(g6
V
tp1484
a(g6
V>
tp1485
a(g6
V

tp1486
a(g138
V\${
p1487
tp1488
a(g100
VWRKDIR
p1489
tp1490
a(g138
V}
tp1491
a(g6
V/
tp1492
a(g138
V\${
p1493
tp1494
a(g100
VPYTHON_VERSION
p1495
tp1496
a(g138
V}
tp1497
a(g6
V-config
p1498
tp1499
a(g6
V\u000a
p1500
tp1501
a(g138
V\${
p1502
tp1503
a(g100
VSED
p1504
tp1505
a(g138
V}
tp1506
a(g6
V
tp1507

a(g6
V-e
p1508
tp1509
a(g6
V
tp1510
a(g281
V's|^#!.*|#!\${PREFIX}/bin/\${PYTHON_VERSION:S/thon/thon-shared/}'
p1511
tp1512
a(g6
V
tp1513
a(g262
V\u005c\u000a
p1514
tp1515
a(g6
V
p1516
tp1517
a(g138
V\${
p1518
tp1519
a(g100
VPATCH_WRKSRC
p1520
tp1521
a(g138
V}
tp1522
a(g6
V/Misc/python-config.in
p1523
tp1524
a(g6
V
tp1525
a(g6
V>
tp1526
a(g6
V
tp1527
a(g138
V\${

p1528
tp1529
a(g100
VWRKDIR
p1530
tp1531
a(g138
V}
tp1532
a(g6
V/
tp1533
a(g138
V\${
p1534
tp1535
a(g100
VPYTHON_VERSION
p1536
tp1537
a(g212
V:
tp1538
a(g100
VS
tp1539
a(g212
V/thon/thon-shared/
p1540
tp1541
a(g138
V}
tp1542
a(g6
V-config
p1543
tp1544
a(g6
V\u000a\u000a
p1545
tp1546
a(g27
V.if defined(WITH_FPECTL) && \${ARCH} == i386\u000a
p1547
tp1548
a(g6
V
tp1549

a(g138
V\${
p1550
tp1551
a(g100
VMKDIR
p1552
tp1553
a(g138
V}
tp1554
a(g6
V
tp1555
a(g138
V\${
p1556
tp1557
a(g100
VWRKSRC
p1558
tp1559
a(g138
V}
tp1560
a(g6
V/Modules
p1561
tp1562
a(g6
V\u000a
p1563
tp1564
a(g138
V\${
p1565
tp1566
a(g100
VECHO
p1567
tp1568
a(g138
V}
tp1569
a(g6
V
tp1570
a(g255

V"fpectl fpectlmodule.c"

p1571

tp1572

a(g6

V

tp1573

a(g6

V>>

p1574

tp1575

a(g6

V

tp1576

a(g138

V\${

p1577

tp1578

a(g100

VWRKSRC

p1579

tp1580

a(g138

V}

tp1581

a(g6

V/Modules/Setup.dist

p1582

tp1583

a(g6

V\u000a

tp1584

a(g27

V.endif\u000a

p1585

tp1586

a(g6

V\u000a

tp1587

a(g6

Vpost-configure:

p1588

tp1589

a(g6

V\u000a

p1590

tp1591

a(g138

V\${

p1592
tp1593
a(g100
VTAR
p1594
tp1595
a(g138
V}
tp1596
a(g6
V
tp1597
a(g6
V-C
p1598
tp1599
a(g6
V
tp1600
a(g138
V\${
p1601
tp1602
a(g100
VWRKSRC
p1603
tp1604
a(g138
V}
tp1605
a(g6
V
tp1606
a(g6
V-cf
p1607
tp1608
a(g6
V
tp1609
a(g6
V-
tp1610
a(g6
V
tp1611
a(g6
V.

tp1612
a(g6
V
tp1613
a(g6
V|
tp1614
a(g6
V
tp1615
a(g138
V\${
p1616
tp1617
a(g100
VTAR
p1618
tp1619
a(g138
V}
tp1620
a(g6
V
tp1621
a(g6
V-C
p1622
tp1623
a(g6
V
tp1624
a(g138
V\${
p1625
tp1626
a(g100
VSHARED_WRKSRV
p1627
tp1628
a(g138
V}
tp1629
a(g6
V
tp1630
a(g6
V-xf
p1631

tp1632
a(g6
V
tp1633
a(g6
V-
tp1634
a(g6
V\u000a
p1635
tp1636
a(g138
V\${
p1637
tp1638
a(g100
VLN
p1639
tp1640
a(g138
V}
tp1641
a(g6
V
tp1642
a(g6
V-sf
p1643
tp1644
a(g6
V
tp1645
a(g138
V\${
p1646
tp1647
a(g100
VPYTHON_WRKSRC
p1648
tp1649
a(g138
V}
tp1650
a(g6
V/Lib
p1651
tp1652
a(g6

V
tp1653
a(g138
V\${
p1654
tp1655
a(g100
VWRKSRC
p1656
tp1657
a(g138
V}
tp1658
a(g6
V/Lib
p1659
tp1660
a(g6
V\u000a
p1661
tp1662
a(g138
V\${
p1663
tp1664
a(g100
VSED
p1665
tp1666
a(g138
V}
tp1667
a(g6
V
tp1668
a(g6
V-e
p1669
tp1670
a(g6
V
tp1671
a(g281
V's,^\u005c(LDLIBRARY=\u005c).*\$\$,\u005c1libpython\$(VERSION).so,'
p1672
tp1673
a(g6
V

tp1674
a(g262
V\u005c\u000a
p1675
tp1676
a(g6
V
p1677
tp1678
a(g6
V-e
p1679
tp1680
a(g6
V
tp1681
a(g281
V's,^\u005c(BLDLIBRARY=\u005c).*\$\$,\u005c1-L. -lpython\$(VERSION),'
p1682
tp1683
a(g6
V
tp1684
a(g262
V\u005c\u000a
p1685
tp1686
a(g6
V
p1687
tp1688
a(g6
V-e
p1689
tp1690
a(g6
V
tp1691
a(g281
V's,^\u005c(CFLAGSFORSHARED=\u005c).*\$\$,\u005c1\$(CCSHARED),'
p1692
tp1693
a(g6
V
tp1694
a(g262
V\u005c\u000a
p1695

tp1696
a(g6
V
p1697
tp1698
a(g6
V-e
p1699
tp1700
a(g6
V
tp1701
a(g281
V's,^\u005c(Makefile Modules/config.c:.*\u005c)Makefile.pre,\u005c1,'
p1702
tp1703
a(g6
V
tp1704
a(g262
V\u005c\u000a
p1705
tp1706
a(g6
V
p1707
tp1708
a(g6
V-e
p1709
tp1710
a(g6
V
tp1711
a(g281
V's,^\u005c(.(BUILDPYTHON)\u005c:.*\u005c).(LIBRARY),\u005c1,'
p1712
tp1713
a(g6
V
tp1714
a(g262
V\u005c\u000a
p1715
tp1716
a(g6
V
p1717

tp1718
a(g6
V-e
p1719
tp1720
a(g6
V
tp1721
a(g281
V's,^\u005c(.BUILDPYTHON):*\u005c).(LIBRARY),\u005c1,'
p1722
tp1723
a(g6
V
tp1724
a(g262
V\u005c\u000a
p1725
tp1726
a(g6
V
p1727
tp1728
a(g138
V\${
p1729
tp1730
a(g100
VWRKSRC
p1731
tp1732
a(g138
V}
tp1733
a(g6
V/Makefile
p1734
tp1735
a(g6
V
tp1736
a(g6
V>
tp1737
a(g6
V
tp1738
a(g138

V\${
p1739
tp1740
a(g100
VSHARED_WRKSR
p1741
tp1742
a(g138
V}
tp1743
a(g6
V/Makefile
p1744
tp1745
a(g6
V\u000a\u000a
p1746
tp1747
a(g6
Vpre-build:
p1748
tp1749
a(g6
V\u000a
p1750
tp1751
a(g84
Vcd
p1752
tp1753
a(g6
V
tp1754
a(g138
V\${
p1755
tp1756
a(g100
VSHARED_WRKSR
p1757
tp1758
a(g138
V}
tp1759
a(g6
V;
tp1760
a(g6

V
tp1761
a(g262
V\u005c\u000a
p1762
tp1763
a(g6
V
tp1764
a(g138
V\${
p1765
tp1766
a(g100
VSETENV
p1767
tp1768
a(g138
V}
tp1769
a(g6
V
tp1770
a(g138
V\${
p1771
tp1772
a(g100
VMAKE_ENV
p1773
tp1774
a(g138
V}
tp1775
a(g6
V
tp1776
a(g138
V\${
p1777
tp1778
a(g100
VMAKE
p1779
tp1780
a(g138
V}
tp1781

a(g6
V
tp1782
a(g6
Vlib
p1783
tp1784
a(g138
V\${
p1785
tp1786
a(g100
VPYTHON_VERSION
p1787
tp1788
a(g138
V}
tp1789
a(g6
V.so
p1790
tp1791
a(g6
V
tp1792
a(g6
Vpython;
p1793
tp1794
a(g6
V
tp1795
a(g262
V\u005c\u000a
p1796
tp1797
a(g6
V
tp1798
a(g138
V\${
p1799
tp1800
a(g100
VLN
p1801
tp1802
a(g138

V}
tp1803
a(g6
V
tp1804
a(g6
V-f
p1805
tp1806
a(g6
V
tp1807
a(g6
Vlib
p1808
tp1809
a(g138
V\${
p1810
tp1811
a(g100
VPYTHON_VERSION
p1812
tp1813
a(g138
V}
tp1814
a(g6
V.so
p1815
tp1816
a(g6
V
tp1817
a(g6
Vlib
p1818
tp1819
a(g138
V\${
p1820
tp1821
a(g100
VPYTHON_VERSION
p1822
tp1823
a(g138
V}

tp1824
a(g6
V.so.1;
p1825
tp1826
a(g6
V
tp1827
a(g262
V\u005c\u000a
p1828
tp1829
a(g6
V
tp1830
a(g138
V\${
p1831
tp1832
a(g100
VLN
p1833
tp1834
a(g138
V}
tp1835
a(g6
V
tp1836
a(g6
V-f
p1837
tp1838
a(g6
V
tp1839
a(g6
Vpython
p1840
tp1841
a(g6
V
tp1842
a(g138
V\${
p1843
tp1844
a(g100

VPYTHON_VERSION
p1845
tp1846
a(g212
V:
tp1847
a(g100
VS
tp1848
a(g212
V/thon/thon-shared/
p1849
tp1850
a(g138
V}
tp1851
a(g6
V\u000a\u000a
p1852
tp1853
a(g6
Vpre-su-install:
p1854
tp1855
a(g6
V\u000a
tp1856
a(g27
V.for platform in \${PLATFORMS}\u000a
p1857
tp1858
a(g6
V
tp1859
a(g138
V\${
p1860
tp1861
a(g100
VMKDIR
p1862
tp1863
a(g138
V}
tp1864
a(g6
V
tp1865

a(g138
V\${
p1866
tp1867
a(g100
VPYTHONPREFIX_LIBDIR
p1868
tp1869
a(g138
V}
tp1870
a(g6
V/
tp1871
a(g138
V\${
p1872
tp1873
a(g100
Vplatform
p1874
tp1875
a(g138
V}
tp1876
a(g6
V\u000a
tp1877
a(g27
V.for file in IN.py regen\u000a
p1878
tp1879
a(g6
V
tp1880
a(g138
V\${
p1881
tp1882
a(g100
VINSTALL_DATA
p1883
tp1884
a(g138
V}
tp1885
a(g6
V

tp1886
a(g138
V\${
p1887
tp1888
a(g100
VWRKSRC
p1889
tp1890
a(g138
V}
tp1891
a(g6
V/Lib/
p1892
tp1893
a(g138
V\${
p1894
tp1895
a(g100
Vplatform
p1896
tp1897
a(g138
V}
tp1898
a(g6
V/
tp1899
a(g138
V\${
p1900
tp1901
a(g100
Vfile
p1902
tp1903
a(g138
V}
tp1904
a(g6
V
tp1905
a(g262
V\u005c\u000a
p1906
tp1907

a(g6
V
p1908
tp1909
a(g138
V\${
p1910
tp1911
a(g100
VPYTHONPREFIX_LIBDIR
p1912
tp1913
a(g138
V}
tp1914
a(g6
V/
tp1915
a(g138
V\${
p1916
tp1917
a(g100
Vplatform
p1918
tp1919
a(g138
V}
tp1920
a(g6
V/
tp1921
a(g6
V\u000a
tp1922
a(g27
V.endfor\u000a
p1923
tp1924
a(g6
V
tp1925
a(g27
V.endfor\u000a
p1926
tp1927
a(g6
V\u000a

tp1928
a(g6
Vpre-install:
p1929
tp1930
a(g6
V\u000a
p1931
tp1932
a(g138
V\${
p1933
tp1934
a(g100
VCAT
p1935
tp1936
a(g138
V}
tp1937
a(g6
V
tp1938
a(g138
V\${
p1939
tp1940
a(g100
VPLIST_TEMPLATE
p1941
tp1942
a(g138
V}
tp1943
a(g6
V
tp1944
a(g6
V|
tp1945
a(g6
V
tp1946
a(g138
V\${
p1947
tp1948
a(g100

VAWK
p1949
tp1950
a(g138
V}
tp1951
a(g6
V
tp1952
a(g281
V'{ print \$\$0; } \u005c\u000a /LIBDIR.*\u005c.py\$\$/ && !\u005c/bad/ { print \$\$0 "o"; print \$\$0 "c"; }'
p1953
tp1954
a(g6
V
tp1955
a(g6
V>
tp1956
a(g6
V
tp1957
a(g138
V\${
p1958
tp1959
a(g100
VPLIST
p1960
tp1961
a(g138
V}
tp1962
a(g6
V\u000a\u000a
p1963
tp1964
a(g24
V @# if openssl 0.9.8 is detected, _sha{256,512} module won't be installed\u000a
p1965
tp1966
a(g6
V
tp1967
a(g353
V(
tp1968
a(g353

V[
tp1969
a(g6
V
tp1970
a(g6
V-f
p1971
tp1972
a(g6
V
tp1973
a(g138
V\${
p1974
tp1975
a(g100
VWRKSRC
p1976
tp1977
a(g138
V}
tp1978
a(g6
V/.without_own_sha
p1979
tp1980
a(g6
V
tp1981
a(g353
V]
tp1982
a(g6
V
tp1983
a(g353
V&&
p1984
tp1985
a(g6
V
tp1986
a(g262
V\u005c\u000a
p1987
tp1988
a(g6

V
p1989
tp1990
a(g138
V\${
p1991
tp1992
a(g100
VGREP
p1993
tp1994
a(g138
V}
tp1995
a(g6
V
tp1996
a(g6
V-v
p1997
tp1998
a(g6
V
tp1999
a(g281
V'lib-dynload/_sha'
p2000
tp2001
a(g6
V
tp2002
a(g138
V\${
p2003
tp2004
a(g100
VPLIST
p2005
tp2006
a(g138
V}
tp2007
a(g6
V
tp2008
a(g6
V>
tp2009

a(g6
V
tp2010
a(g138
V\${
p2011
tp2012
a(g100
VPLIST
p2013
tp2014
a(g138
V}
tp2015
a(g6
V.tmp
p2016
tp2017
a(g6
V
tp2018
a(g353
V&&
p2019
tp2020
a(g6
V
tp2021
a(g262
V\u005c\u000a
p2022
tp2023
a(g6
V
p2024
tp2025
a(g138
V\${
p2026
tp2027
a(g100
VCAT
p2028
tp2029
a(g138
V}
tp2030
a(g6

V
tp2031
a(g138
V\${
p2032
tp2033
a(g100
VPLIST
p2034
tp2035
a(g138
V}
tp2036
a(g6
V.tmp
p2037
tp2038
a(g6
V
tp2039
a(g6
V>
tp2040
a(g6
V
tp2041
a(g138
V\${
p2042
tp2043
a(g100
VPLIST
p2044
tp2045
a(g138
V}
tp2046
a(g353
V)
tp2047
a(g6
V
tp2048
a(g353
V||
p2049
tp2050
a(g6

V
tp2051
a(g138
V\${
p2052
tp2053
a(g100
VTRUE
p2054
tp2055
a(g138
V}
tp2056
a(g6
V\u000a\u000a
p2057
tp2058
a(g6
Vpost-install:
p2059
tp2060
a(g6
V\u000a
tp2061
a(g24
V @# install config providers\u000a
p2062
tp2063
a(g6
V
tp2064
a(g138
V\${
p2065
tp2066
a(g100
VINSTALL_SCRIPT
p2067
tp2068
a(g138
V}
tp2069
a(g6
V
tp2070
a(g138
V\${
p2071

tp2072
a(g100
VWRKDIR
p2073
tp2074
a(g138
V}
tp2075
a(g6
V/
tp2076
a(g138
V\${
p2077
tp2078
a(g100
VPYTHON_VERSION
p2079
tp2080
a(g138
V}
tp2081
a(g6
V-config
p2082
tp2083
a(g6
V
tp2084
a(g138
V\${
p2085
tp2086
a(g100
VPREFIX
p2087
tp2088
a(g138
V}
tp2089
a(g6
V/bin
p2090
tp2091
a(g6
V\u000a
p2092
tp2093

a(g138
V\${
p2094
tp2095
a(g100
VINSTALL_SCRIPT
p2096
tp2097
a(g138
V}
tp2098
a(g6
V
tp2099
a(g138
V\${
p2100
tp2101
a(g100
VWRKDIR
p2102
tp2103
a(g138
V}
tp2104
a(g6
V/
tp2105
a(g138
V\${
p2106
tp2107
a(g100
VPYTHON_VERSION
p2108
tp2109
a(g212
V:
tp2110
a(g100
VS
tp2111
a(g212
V/thon/thon-shared/
p2112
tp2113
a(g138
V}

tp2114
a(g6
V-config
p2115
tp2116
a(g6
V
tp2117
a(g138
V\${
p2118
tp2119
a(g100
VPREFIX
p2120
tp2121
a(g138
V}
tp2122
a(g6
V/bin
p2123
tp2124
a(g6
V\u000a\u000a
p2125
tp2126
a(g24
V @# shared version of executable and library\u000a
p2127
tp2128
a(g6
V
tp2129
a(g138
V\${
p2130
tp2131
a(g100
VINSTALL_PROGRAM
p2132
tp2133
a(g138
V}
tp2134
a(g6
V
tp2135

a(g138
V\${
p2136
tp2137
a(g100
VSHARED_WRKSRC
p2138
tp2139
a(g138
V}
tp2140
a(g6
V/lib
p2141
tp2142
a(g138
V\${
p2143
tp2144
a(g100
VPYTHON_VERSION
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tp2146
a(g138
V}
tp2147
a(g6
V.so.1
p2148
tp2149
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tp2150
a(g262
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p2151
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p2153
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V\${
p2155
tp2156
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VPREFIX
p2157

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p2164
tp2165
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tp2166
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VPREFIX
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V}
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V/lib;
p2172
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p2177
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tp2201

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V/bin
p2277
tp2278
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V\u000a\u000a
p2279
tp2280
a(g24
V @# additional files installing by ports\u000a
p2281
tp2282
a(g6
V
tp2283
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V\${
p2284
tp2285
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VINSTALL_SCRIPT
p2286
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V}

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V\${
p2334
tp2335
a(g100
VMANPREFIX
p2336
tp2337
a(g138
V}
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V/man/man1
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p2345
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tp2347
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tp2348
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p2359
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tp2362
a(g100
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p2363
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V}
tp2365
a(g6
V/man/man1/
p2366
tp2367
a(g138
V\${
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tp2369
a(g100
VPYTHON_VERSION
p2370
tp2371
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tp2372
a(g6
V.1
p2373
tp2374
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p2375
tp2376
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V.if \${PYTHON_VERSION} == \${PYTHON_DEFAULT_VERSION}\u000a
p2377
tp2378
a(g6
V
tp2379
a(g138
Vfor
p2380
tp2381
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Vf
tp2382
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Vin
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V
tp2386
a(g138
V\${
p2387
tp2388
a(g100
VBIN_SCRIPTS
p2389
tp2390
a(g138
V}
tp2391
a(g6
V;
tp2392
a(g6
V
tp2393
a(g138
Vdo
p2394
tp2395

a(g6
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tp2396
a(g262
V\u005c\u000a
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tp2398
a(g6
V
p2399
tp2400
a(g100
VTARGET
p2401
tp2402
a(g353
V=
tp2403
a(g274
V`
tp2404
a(g138
V\${
p2405
tp2406
a(g100
VECHO_CMD
p2407
tp2408
a(g138
V}
tp2409
a(g6
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tp2410
a(g100
V\$\$
p2411
tp2412
a(g6
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V\${
p2417
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a(g138
V}
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p2423
tp2424
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tp2425
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V\${
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tp2427
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VBINLINKS_SUB
p2428
tp2429
a(g138
V}
tp2430
a(g274
V`
tp2431
a(g6
V;
tp2432
a(g6
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tp2433
a(g262
V\u005c\u000a
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tp2435

a(g6
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tp2437
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Vcd
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V\${
p2441
tp2442
a(g100
VPREFIX
p2443
tp2444
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tp2445
a(g6
V/bin
p2446
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tp2448
a(g353
V&&
p2449
tp2450
a(g6
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tp2451
a(g138
V\${
p2452
tp2453
a(g100
VLN
p2454
tp2455
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V}
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tp2457
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V-f
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V\$\$
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VTARGET
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V\$\$
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Vf;
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a(g262
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p2471
tp2472
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tp2473
a(g138
Vdone
p2474
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V\u000a
tp2476
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V.endif\u000a
p2477

tp2478
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V\u000a
tp2479
a(g27
V.if !defined(NOPORTDOCS)\u000a
p2480
tp2481
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tp2482
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V@
tp2483
a(g138
V\${
p2484
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V}
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tp2489
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V\${
p2490
tp2491
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VTOOLS DIR
p2492
tp2493
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V}
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V\u000a
p2495
tp2496
a(g6
V@cd
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V
tp2499
a(g138
V\${
p2500
tp2501
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VPYTHON_WRKSRC
p2502
tp2503
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V}
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VTools

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VTOOLS DIR
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VDEMODIR
p2560
tp2561
a(g138
V}
tp2562
a(g6
V\u000a
p2563
tp2564
a(g6
V@cd
p2565
tp2566
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tp2567
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V\${
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VPYTHON_WRKSRC
p2570
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V/Demo;
p2573
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tp2605
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V-xf
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tp2613
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tp2614
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V)
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V\u000a
tp2617
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V.endif\u000a

p2618
tp2619
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p2620
tp2621
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tp2622
a(g138
V\${
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tp2624
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VCAT
p2625
tp2626
a(g138
V}
tp2627
a(g6
V
tp2628
a(g138
V\${
p2629
tp2630
a(g100
VPKGMESAGE
p2631
tp2632
a(g138
V}
tp2633
a(g6
V\u000a\u000a
p2634
tp2635
a(g27
V.include <bsd.port.post.mk>\u000a
p2636
tp2637
a(g6
V
tp2638
a.

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1.638 python-requests_LGPLv2.1 1.1.0 :8.e17

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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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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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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test/domapi/ (and test/test_pyxmlDOM.py)

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1.646 qs 0.5.1

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```
# node-querystring
```

query string parser for node and the browser supporting nesting, as it was removed from `0.3.x`, so this library provides the previous and commonly desired behaviour (and twice as fast). Used by [express](http://expressjs.com), [connect](http://senchalabs.github.com/connect) and others.

```
## Installation
```

```
$ npm install qs
```

```
## Examples
```

```
```js
var qs = require('qs');

qs.parse('user[name][first]=Tobi&user[email]=tobi@learnboost.com');
// => { user: { name: { first: 'Tobi' }, email: 'tobi@learnboost.com' } }

qs.stringify({ user: { name: 'Tobi', email: 'tobi@learnboost.com' } })
// => user[name]=Tobi&user[email]=tobi%40learnboost.com
```
```

```
## Testing
```

Install dev dependencies:

```
$ npm install -d
```

and execute:

```
$ make test
```

browser:

```
$ open test/browser/index.html
```

```
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```

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1.648 qs 3.1.0

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node-querystring

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```js
var qs = require('qs');

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// => { 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:

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$ npm install -d
```

and execute:

```
$ make test
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browser:

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$ open test/browser/index.html
```

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1.650 querystring 0.2.0

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1.651 rabbitmq-server 3.1.5 :7.e17

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1.652 range-parser 1.0.2

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1.653 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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1.654 range-parser 0.0.4

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1.655 raw-body 1.1.3

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Raw Body [![Build Status](https://travis-ci.org/stream-utils/raw-body.png)](https://travis-ci.org/stream-utils/raw-body)

Gets the entire buffer of a stream either as a `Buffer` or a string.

Validates the stream's length against an expected length and maximum limit.

Ideal for parsing request bodies.

API

```
```js
```

```
var getRawBody = require('raw-body')
```

```
app.use(function (req, res, next) {
 getRawBody(req, {
 length: req.headers['content-length'],
 limit: '1mb',
 encoding: 'utf8'
 }, function (err, string) {
 if (err)
 return next(err)
```

```

 req.text = string
 next()
 })
})
...

```

or in a Koa generator:

```

```js
app.use(function* (next) {
  var string = yield getRawBody(this.req, {
    length: this.length,
    limit: '1mb',
    encoding: 'utf8'
  })
})
})
...

```

```

### getRawBody(stream, [options], [callback])

```

Returns a thunk for yielding with generators.

Options:

- `length` - The length length of the stream.

If the contents of the stream do not add up to this length, an `400` error code is returned.

- `limit` - The byte limit of the body.

If the body ends up being larger than this limit, a `413` error code is returned.

- `encoding` - The requested encoding.

By default, a `Buffer` instance will be returned.

Most likely, you want `utf8`.

You can use any type of encoding supported by [StringDecoder](http://nodejs.org/api/string_decoder.html).

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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1.656 raw-body 1.1.2

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1.660 raw-body 1.3.0

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raw-body

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Gets the entire buffer of a stream either as a `Buffer` or a string.
Validates the stream's length against an expected length and maximum limit.
Ideal for parsing request bodies.

API

```
```js
var getRawBody = require('raw-body')
var typer = require('media-typer')

app.use(function (req, res, next) {
 getRawBody(req, {
 length: req.headers['content-length'],
 limit: '1mb',
 encoding: typer.parse(req.headers['content-type']).parameters.charset
 }, function (err, string) {
 if (err)
 return next(err)

 req.text = string
 next()
 })
})
```
```

or in a Koa generator:

```
```js
app.use(function* (next) {
 var string = yield getRawBody(this.req, {
 length: this.length,
 limit: '1mb',
 encoding: this.charset
 })
})
```
```

getRawBody(stream, [options], [callback])

Returns a thunk for yielding with generators.

Options:

- `length` - The length length of the stream.
If the contents of the stream do not add up to this length,

an `400` error code is returned.

- `limit` - The byte limit of the body.

If the body ends up being larger than this limit,

a `413` error code is returned.

- `encoding` - The requested encoding.

By default, a `Buffer` instance will be returned.

Most likely, you want `utf8`.

You can use any type of encoding supported by `[iconv-lite]`(<https://www.npmjs.org/package/iconv-lite#readme>).

You can also pass a string in place of options to just specify the encoding.

`callback(err, res)`:

- `err` - the following attributes will be defined if applicable:

- `limit` - the limit in bytes

- `length` and `expected` - the expected length of the stream

- `received` - the received bytes

- `encoding` - the invalid encoding

- `status` and `statusCode` - the corresponding status code for the error

- `type` - either `entity.too.large`, `request.size.invalid`, `stream.encoding.set`, or `encoding.unsupported`

- `res` - the result, either as a `String` if an encoding was set or a `Buffer` otherwise.

If an error occurs, the stream will be paused, everything un piped,

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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1.661 re2 20131024 :1.e17

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1.662 read 1.0.5

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1.663 readable-stream 1.1.13

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1.666 readdirp 0.2.5

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1.667 redis 0.9.1

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redis - a node.js redis client

=====

This is a complete Redis client for node.js. It supports all Redis commands, including many recently added commands like EVAL from experimental Redis server branches.

Install with:

```
npm install redis
```

Pieter Noordhuis has provided a binding to the official `hiredis` C library, which is non-blocking and fast. To use `hiredis`, do:

```
npm install hiredis redis
```

If `hiredis` is installed, `node_redis` will use it by default. Otherwise, a pure JavaScript parser will be used.

If you use `hiredis`, be sure to rebuild it whenever you upgrade your version of node. There are mysterious failures that can happen between node and native code modules after a node upgrade.

```
## Usage
```

Simple example, included as `examples/simple.js`:

```
```js
var redis = require("redis"),
 client = redis.createClient();

// if you'd like to select database 3, instead of 0 (default), call
// client.select(3, function() { /* ... */ });

client.on("error", function (err) {
 console.log("Error " + err);
});

client.set("string key", "string val", redis.print);
client.hset("hash key", "hashtest 1", "some value", redis.print);
client.hset(["hash key", "hashtest 2", "some other value"], redis.print);
client.hkeys("hash key", function (err, replies) {
 console.log(replies.length + " replies:");
 replies.forEach(function (reply, i) {
 console.log(" " + i + ": " + reply);
 });
 client.quit();
});
```
```

This will display:

```
mjr:~/work/node_redis (master)$ node example.js
Reply: OK
Reply: 0
Reply: 0
2 replies:
  0: hashtest 1
  1: hashtest 2
mjr:~/work/node_redis (master)$
```

Performance

Here are typical results of `multi_bench.js` which is similar to `redis-benchmark` from the Redis distribution. It uses 50 concurrent connections with no pipelining.

JavaScript parser:

```
PING: 20000 ops 42283.30 ops/sec 0/5/1.182
SET: 20000 ops 32948.93 ops/sec 1/7/1.515
GET: 20000 ops 28694.40 ops/sec 0/9/1.740
INCR: 20000 ops 39370.08 ops/sec 0/8/1.269
```

```
LPUSH: 20000 ops 36429.87 ops/sec 0/8/1.370
LRANGE (10 elements): 20000 ops 9891.20 ops/sec 1/9/5.048
LRANGE (100 elements): 20000 ops 1384.56 ops/sec 10/91/36.072
```

hiredis parser:

```
PING: 20000 ops 46189.38 ops/sec 1/4/1.082
SET: 20000 ops 41237.11 ops/sec 0/6/1.210
GET: 20000 ops 39682.54 ops/sec 1/7/1.257
INCR: 20000 ops 40080.16 ops/sec 0/8/1.242
LPUSH: 20000 ops 41152.26 ops/sec 0/3/1.212
LRANGE (10 elements): 20000 ops 36563.07 ops/sec 1/8/1.363
LRANGE (100 elements): 20000 ops 21834.06 ops/sec 0/9/2.287
```

The performance of `node_redis` improves dramatically with pipelining, which happens automatically in most normal programs.`

Sending Commands

Each Redis command is exposed as a function on the `client` object. All functions take either an args` Array plus optional callback` Function or a variable number of individual arguments followed by an optional callback. Here is an example of passing an array of arguments and a callback:`

```
client.mset(["test keys 1", "test val 1", "test keys 2", "test val 2"], function (err, res) {});
```

Here is that same call in the second style:

```
client.mset("test keys 1", "test val 1", "test keys 2", "test val 2", function (err, res) {});
```

Note that in either form the `callback` is optional:`

```
client.set("some key", "some val");
client.set(["some other key", "some val"]);
```

If the key is missing, reply will be null (probably):

```
client.get("missingkey", function(err, reply) {
  // reply is null when the key is missing
  console.log(reply);
});
```

For a list of Redis commands, see [Redis Command Reference](<http://redis.io/commands>)

The commands can be specified in uppercase or lowercase for convenience. `client.get()` is the same as client.GET()`.`

Minimal parsing is done on the replies. Commands that return a single line reply return JavaScript Strings, integer replies return JavaScript Numbers, "bulk" replies return node Buffers, and "multi bulk" replies return a JavaScript Array of node Buffers. `HGETALL` returns an Object with Buffers keyed by the hash keys.

API

Connection Events

`client` will emit some events about the state of the connection to the Redis server.

"ready"

`client` will emit `ready` a connection is established to the Redis server and the server reports that it is ready to receive commands. Commands issued before the `ready` event are queued, then replayed just before this event is emitted.

"connect"

`client` will emit `connect` at the same time as it emits `ready` unless `client.options.no_ready_check` is set. If this options is set, `connect` will be emitted when the stream is connected, and then you are free to try to send commands.

"error"

`client` will emit `error` when encountering an error connecting to the Redis server.

Note that "error" is a special event type in node. If there are no listeners for an "error" event, node will exit. This is usually what you want, but it can lead to some cryptic error messages like this:

```
mjr:~/work/node_redis (master)$ node example.js
```

```
node.js:50
```

```
  throw e;
```

```
  ^
```

```
Error: ECONNREFUSED, Connection refused
```

```
  at IOWatcher.callback (net:870:22)
```

```
  at node.js:607:9
```

Not very useful in diagnosing the problem, but if your program isn't ready to handle this, it is probably the right thing to just exit.

`client` will also emit `error` if an exception is thrown inside of `node_redis` for whatever reason. It would be nice to distinguish these two cases.

"end"

`client` will emit `end` when an established Redis server connection has closed.

```
### "drain"
```

``client`` will emit ``drain`` when the TCP connection to the Redis server has been buffering, but is now writable. This event can be used to stream commands in to Redis and adapt to backpressure. Right now, you need to check ``client.command_queue.length`` to decide when to reduce your send rate. Then you can resume sending when you get ``drain``.

```
### "idle"
```

``client`` will emit ``idle`` when there are no outstanding commands that are awaiting a response.

```
## redis.createClient(port, host, options)
```

Create a new client connection. ``port`` defaults to ``6379`` and ``host`` defaults to ``127.0.0.1``. If you have ``redis-server`` running on the same computer as node, then the defaults for port and host are probably fine. ``options`` in an object with the following possible properties:

- * ``parser``: which Redis protocol reply parser to use. Defaults to ``hiredis`` if that module is installed.

This may also be set to ``javascript``.

- * ``return_buffers``: defaults to ``false``. If set to ``true``, then all replies will be sent to callbacks as node Buffer objects instead of JavaScript Strings.

- * ``detect_buffers``: default to ``false``. If set to ``true``, then replies will be sent to callbacks as node Buffer objects if any of the input arguments to the original command were Buffer objects.

This option lets you switch between Buffers and Strings on a per-command basis, whereas ``return_buffers`` applies to

every command on a client.

- * ``socket_nodelay``: defaults to ``true``. Whether to call `setNoDelay()` on the TCP stream, which disables the Nagle algorithm on the underlying socket. Setting this option to ``false`` can result in additional throughput at the cost of more latency. Most applications will want this set to ``true``.

- * ``no_ready_check``: defaults to ``false``. When a connection is established to the Redis server, the server might still be loading the database from disk. While loading, the server not respond to any commands. To work around this, ``node_redis`` has a "ready check" which sends the ``INFO`` command to the server. The response from the ``INFO`` command

indicates whether the server is ready for more commands. When ready, ``node_redis`` emits a ``ready`` event.

Setting ``no_ready_check`` to ``true`` will inhibit this check.

- * ``enable_offline_queue``: defaults to ``true``. By default, if there is no active connection to the redis server, commands are added to a queue and are executed once the connection has been established. Setting ``enable_offline_queue`` to ``false`` will disable this feature and the callback will be execute immediately with an error, or an error will be thrown if no callback is specified.

- * ``retry_max_delay``: defaults to ``null``. By default every time the client tries to connect and fails time before reconnection (delay) almost doubles. This delay normally grows infinitely, but setting ``retry_max_delay`` limits delay

to maximum value, provided in milliseconds.

- * ``connect_timeout`` defaults to ``false``. By default client will try reconnecting until connected. Setting ``connect_timeout``

limits total time for client to reconnect. Value is provided in milliseconds and is counted once the disconnect

occured.

* `max_attempts` defaults to null`. By default client will try reconnecting until connected. Setting max_attempts` limits total amount of reconnects.`

* `auth_pass` defaults to null`. By default client will try connecting without auth. If set, client will run redis auth command on connect.`

```
```js
var redis = require("redis"),
 client = redis.createClient(null, null, {detect_buffers: true});

client.set("foo_rand000000000000", "OK");

// This will return a JavaScript String
client.get("foo_rand000000000000", function (err, reply) {
 console.log(reply.toString()); // Will print `OK`
});

// This will return a Buffer since original key is specified as a Buffer
client.get(new Buffer("foo_rand000000000000"), function (err, reply) {
 console.log(reply.toString()); // Will print ``
});
client.end();
```
```

`createClient()` returns a `RedisClient` object that is named client` in all of the examples here.`

Unix Domain Socket

You can also create a connection to Redis server via the unix domain socket if the server has it enabled:

```
```js
var redis = require("redis");
var client = redis.createClient("/tmp/redis.sock");
```
```

Sample `redis.conf` configuration to enable unix domain socket listening:`

```
```conf
unixsocket /tmp/redis.sock
unixsocketperm 755
```
```

See [issue #204](https://github.com/mranney/node_redis/issues/204) for more information.

```
## client.auth(password, callback)
```

When connecting to Redis servers that require authentication, the `AUTH` command must be sent as the`

first command after connecting. This can be tricky to coordinate with reconnections, the ready check, etc. To make this easier, `client.auth()` stashes `password` and will send it after each connection, including reconnections. `callback` is invoked only once, after the response to the very first `AUTH` command sent.

NOTE: Your call to `client.auth()` should not be inside the ready handler. If you are doing this wrong, `client` will emit an error that looks something like this `Error: Ready check failed: ERR operation not permitted`.

```
## client.end()
```

Forcibly close the connection to the Redis server. Note that this does not wait until all replies have been parsed. If you want to exit cleanly, call `client.quit()` to send the `QUIT` command after you have handled all replies.

This example closes the connection to the Redis server before the replies have been read. You probably don't want to do this:

```
```js
var redis = require("redis"),
 client = redis.createClient();

client.set("foo_rand000000000000", "some fantastic value");
client.get("foo_rand000000000000", function (err, reply) {
 console.log(reply.toString());
});
client.end();
```
```

`client.end()` is useful for timeout cases where something is stuck or taking too long and you want to start over.

```
## client.unref()
```

Call `unref()` on the underlying socket connection to the Redis server, allowing the program to exit once no more commands are pending.

This is an *experimental* feature, and only supports a subset of the Redis protocol. Any commands where client state is saved on the Redis server, e.g. `SUBSCRIBE` or the blocking `BL*` commands will *NOT* work with `unref()`.

```
```js
var redis = require("redis")
var client = redis.createClient()

/*
 Calling unref() will allow this program to exit immediately after the get command finishes. Otherwise the client
 would hang as long as the client-server connection is alive.
*/
client.unref()
```

```
client.get("foo", function (err, value){
 if (err) throw(err)
 console.log(value)
})
...

```

## Friendlier hash commands

Most Redis commands take a single String or an Array of Strings as arguments, and replies are sent back as a single String or an Array of Strings.

When dealing with hash values, there are a couple of useful exceptions to this.

### client.hgetall(hash)

The reply from an HGETALL command will be converted into a JavaScript Object by `node_redis``. That way you can interact with the responses using JavaScript syntax.

Example:

```
client.hmset("hosts", "mjr", "1", "another", "23", "home", "1234");
client.hgetall("hosts", function (err, obj) {
 console.dir(obj);
});

```

Output:

```
{ mjr: '1', another: '23', home: '1234' }
```

### client.hmset(hash, obj, [callback])

Multiple values in a hash can be set by supplying an object:

```
client.HMSET(key2, {
 "0123456789": "abcdefghij", // NOTE: key and value will be coerced to strings
 "some manner of key": "a type of value"
});

```

The properties and values of this Object will be set as keys and values in the Redis hash.

### client.hmset(hash, key1, val1, ... keyn, valn, [callback])

Multiple values may also be set by supplying a list:

```
client.HMSET(key1, "0123456789", "abcdefghij", "some manner of key", "a type of value");

```

## Publish / Subscribe

Here is a simple example of the API for publish / subscribe. This program opens two client connections, subscribes to a channel on one of them, and publishes to that channel on the other:

```
```js
var redis = require("redis"),
    client1 = redis.createClient(), client2 = redis.createClient(),
    msg_count = 0;

client1.on("subscribe", function (channel, count) {
  client2.publish("a nice channel", "I am sending a message.");
  client2.publish("a nice channel", "I am sending a second message.");
  client2.publish("a nice channel", "I am sending my last message.");
});

client1.on("message", function (channel, message) {
  console.log("client1 channel " + channel + ": " + message);
  msg_count += 1;
  if (msg_count === 3) {
    client1.unsubscribe();
    client1.end();
    client2.end();
  }
});

client1.incr("did a thing");
client1.subscribe("a nice channel");
```
```

When a client issues a `SUBSCRIBE` or `PSUBSCRIBE`, that connection is put into a "subscriber" mode. At that point, only commands that modify the subscription set are valid. When the subscription set is empty, the connection is put back into regular mode.

If you need to send regular commands to Redis while in subscriber mode, just open another connection.

#### ## Subscriber Events

If a client has subscriptions active, it may emit these events:

### "message" (channel, message)

Client will emit `message` for every message received that matches an active subscription. Listeners are passed the channel name as `channel` and the message Buffer as `message`.

### "pmessage" (pattern, channel, message)

Client will emit `pmessage` for every message received that matches an active subscription pattern.

Listeners are passed the original pattern used with `PSUBSCRIBE` as `pattern`, the sending channel name as `channel`, and the message Buffer as `message`.

```
"subscribe" (channel, count)
```

Client will emit `subscribe` in response to a `SUBSCRIBE` command. Listeners are passed the channel name as `channel` and the new count of subscriptions for this client as `count`.

```
"psubscribe" (pattern, count)
```

Client will emit `psubscribe` in response to a `PSUBSCRIBE` command. Listeners are passed the original pattern as `pattern`, and the new count of subscriptions for this client as `count`.

```
"unsubscribe" (channel, count)
```

Client will emit `unsubscribe` in response to a `UNSUBSCRIBE` command. Listeners are passed the channel name as `channel` and the new count of subscriptions for this client as `count`. When `count` is 0, this client has left subscriber mode and no more subscriber events will be emitted.

```
"punsubscribe" (pattern, count)
```

Client will emit `punsubscribe` in response to a `PUNSUBSCRIBE` command. Listeners are passed the channel name as `channel` and the new count of subscriptions for this client as `count`. When `count` is 0, this client has left subscriber mode and no more subscriber events will be emitted.

```
client.multi([commands])
```

`MULTI` commands are queued up until an `EXEC` is issued, and then all commands are run atomically by Redis. The interface in `node_redis` is to return an individual `Multi` object by calling `client.multi()`.

```
```js
var redis = require("./index"),
    client = redis.createClient(), set_size = 20;

client.sadd("bigset", "a member");
client.sadd("bigset", "another member");

while (set_size > 0) {
  client.sadd("bigset", "member " + set_size);
  set_size -= 1;
}

// multi chain with an individual callback
client.multi()
  .scard("bigset")
  .smembers("bigset")
  .keys("*", function (err, replies) {
    // NOTE: code in this callback is NOT atomic
  })
```
```

```

 // this only happens after the the .exec call finishes.
 client.mget(replies, redis.print);
 })
 .dbsize()
 .exec(function (err, replies) {
 console.log("MULTI got " + replies.length + " replies");
 replies.forEach(function (reply, index) {
 console.log("Reply " + index + ": " + reply.toString());
 });
 });
 ...

```

```
Multi.exec(callback)
```

`client.multi()` is a constructor that returns a `Multi` object. `Multi` objects share all of the same command methods as `client` objects do. Commands are queued up inside the `Multi` object until `Multi.exec()` is invoked.

The `callback` of `.exec()` will get invoked with two arguments:

- \* `err` **type:** `null | Array` `err` is either null or an array of Error Objects corresponding the the sequence the commands where chained. The last item of the array will always be an `EXECABORT` type of error originating from the `.exec()` itself.

- \* `results` **type:** `null | Array` `results` is an array of responses corresponding the the sequence the commands where chained.

You can either chain together `MULTI` commands as in the above example, or you can queue individual commands while still sending regular client command as in this example:

```

```js
var redis = require("redis"),
    client = redis.createClient(), multi;

// start a separate multi command queue
multi = client.multi();
multi.incr("incr thing", redis.print);
multi.incr("incr other thing", redis.print);

// runs immediately
client.mset("incr thing", 100, "incr other thing", 1, redis.print);

// drains multi queue and runs atomically
multi.exec(function (err, replies) {
  console.log(replies); // 101, 2
});

// you can re-run the same transaction if you like
multi.exec(function (err, replies) {

```

```

    console.log(replies); // 102, 3
    client.quit();
  });
  ...

```

In addition to adding commands to the `MULTI` queue individually, you can also pass an array of commands and arguments to the constructor:

```

```js
var redis = require("redis"),
 client = redis.createClient(), multi;

client.multi([
 ["mget", "multifoo", "multibar", redis.print],
 ["incr", "multifoo"],
 ["incr", "multibar"]
]).exec(function (err, replies) {
 console.log(replies);
});
...

```

#### ## Monitor mode

Redis supports the `MONITOR` command, which lets you see all commands received by the Redis server across all client connections, including from other client libraries and other computers.

After you send the `MONITOR` command, no other commands are valid on that connection. `node_redis` will emit a `monitor` event for every new monitor message that comes across. The callback for the `monitor` event takes a timestamp from the Redis server and an array of command arguments.

Here is a simple example:

```

```js
var client = require("redis").createClient(),
    util = require("util");

client.monitor(function (err, res) {
  console.log("Entering monitoring mode.");
});

client.on("monitor", function (time, args) {
  console.log(time + ": " + util.inspect(args));
});
...

```

Extras

Some other things you might like to know about.

```
## client.server_info
```

After the ready probe completes, the results from the INFO command are saved in the `client.server_info`` object.

The `versions`` key contains an array of the elements of the version string for easy comparison.

```
> client.server_info.redis_version
'2.3.0'
> client.server_info.versions
[ 2, 3, 0 ]
```

```
## redis.print()
```

A handy callback function for displaying return values when testing. Example:

```
```js
var redis = require("redis"),
 client = redis.createClient();

client.on("connect", function () {
 client.set("foo_rand000000000000", "some fantastic value", redis.print);
 client.get("foo_rand000000000000", redis.print);
});
```
```

This will print:

```
Reply: OK
Reply: some fantastic value
```

Note that this program will not exit cleanly because the client is still connected.

```
## redis.debug_mode
```

Boolean to enable debug mode and protocol tracing.

```
```js
var redis = require("redis"),
 client = redis.createClient();

redis.debug_mode = true;

client.on("connect", function () {
 client.set("foo_rand000000000000", "some fantastic value");
});
```
```

...

This will display:

```
mjr:~/work/node_redis (master)$ node ~/example.js
send command: *3
$3
SET
$20
foo_rand0000000000000
$20
some fantastic value

on_data: +OK
```

`send command` is data sent into Redis and `on_data` is data received from Redis.

Multi-word commands

To execute redis multi-word commands like `SCRIPT LOAD` or `CLIENT LIST` pass the second word as first parameter:

```
client.script('load', 'return 1');
client.multi().script('load', 'return 1').exec(...);
client.multi(['script', 'load', 'return 1']).exec(...);
```

client.send_command(command_name, args, callback)

Used internally to send commands to Redis. For convenience, nearly all commands that are published on the Redis Wiki have been added to the `client` object. However, if I missed any, or if new commands are introduced before this library is updated, you can use `send_command()` to send arbitrary commands to Redis.

All commands are sent as multi-bulk commands. `args` can either be an Array of arguments, or omitted.

client.connected

Boolean tracking the state of the connection to the Redis server.

client.command_queue.length

The number of commands that have been sent to the Redis server but not yet replied to. You can use this to enforce some kind of maximum queue depth for commands while connected.

Don't mess with `client.command_queue` though unless you really know what you are doing.

client.offline_queue.length

The number of commands that have been queued up for a future connection. You can use this to enforce

some kind of maximum queue depth for pre-connection commands.

```
## client.retry_delay
```

Current delay in milliseconds before a connection retry will be attempted. This starts at `250`.

```
## client.retry_backoff
```

Multiplier for future retry timeouts. This should be larger than 1 to add more time between retries.

Defaults to 1.7. The default initial connection retry is 250, so the second retry will be 425, followed by 723.5, etc.

```
### Commands with Optional and Keyword arguments
```

This applies to anything that uses an optional `[WITHSCORES]` or `[LIMIT offset count]` in the `[redis.io/commands]`(<http://redis.io/commands>) documentation.

Example:

```
```js
var args = ['myzset', 1, 'one', 2, 'two', 3, 'three', 99, 'ninety-nine'];
client.zadd(args, function (err, response) {
 if (err) throw err;
 console.log('added '+response+' items.');
```

```
 // -Infinity and +Infinity also work
 var args1 = ['myzset', '+inf', '-inf'];
 client.zrevrangebyscore(args1, function (err, response) {
 if (err) throw err;
 console.log('example1', response);
 // write your code here
 });

 var max = 3, min = 1, offset = 1, count = 2;
 var args2 = ['myzset', max, min, 'WITHSCORES', 'LIMIT', offset, count];
 client.zrevrangebyscore(args2, function (err, response) {
 if (err) throw err;
 console.log('example2', response);
 // write your code here
 });
});
```
```

```
## TODO
```

Better tests for auth, disconnect/reconnect, and all combinations thereof.

Stream large set/get values into and out of Redis. Otherwise the entire value must be in node's memory.

Performance can be better for very large values.

I think there are more performance improvements left in there for smaller values, especially for large lists of small values.

How to Contribute

- open a pull request and then wait for feedback (if [DTrejo](http://github.com/dtrejo) does not get back to you within 2 days, comment again with indignation!)

Contributors

Some people have have added features and fixed bugs in `node_redis` other than me.

Ordered by date of first contribution.

[Auto-generated](http://github.com/dtrejo/node-authors) on Wed Jul 25 2012 19:14:59 GMT-0700 (PDT).

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Thanks.

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1.668 redis 2.8.14 :2.e17

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1.669 redis 0.7.3

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1.670 redis 0.9.0

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redis - a node.js redis client

=====

This is a complete Redis client for node.js. It supports all Redis commands, including many recently added commands like EVAL from experimental Redis server branches.

Install with:

```
npm install redis
```

Pieter Noordhuis has provided a binding to the official `hiredis` C library, which is non-blocking and fast. To use hiredis`, do:`

```
npm install hiredis redis
```

If `hiredis` is installed, node_redis` will use it by default. Otherwise, a pure JavaScript parser will be used.`

If you use `hiredis`, be sure to rebuild it whenever you upgrade your version of node. There are mysterious failures that can happen between node and native code modules after a node upgrade.`

Usage

Simple example, included as `examples/simple.js`:`

```
```js
var redis = require("redis"),
 client = redis.createClient();

// if you'd like to select database 3, instead of 0 (default), call
// client.select(3, function() { /* ... */ });

client.on("error", function (err) {
 console.log("Error " + err);
});

client.set("string key", "string val", redis.print);
client.hset("hash key", "hashtest 1", "some value", redis.print);
client.hset(["hash key", "hashtest 2", "some other value"], redis.print);
client.hkeys("hash key", function (err, replies) {
 console.log(replies.length + " replies:");
 replies.forEach(function (reply, i) {
 console.log(" " + i + ": " + reply);
 });
 client.quit();
});
```
```

This will display:

```
mjr:~/work/node_redis (master)$ node example.js
Reply: OK
Reply: 0
Reply: 0
2 replies:
```

```
0: hashtest 1
1: hashtest 2
mjr:~/work/node_redis (master)$
```

Performance

Here are typical results of `multi_bench.js` which is similar to `redis-benchmark` from the Redis distribution. It uses 50 concurrent connections with no pipelining.

JavaScript parser:

```
PING: 20000 ops 42283.30 ops/sec 0/5/1.182
SET: 20000 ops 32948.93 ops/sec 1/7/1.515
GET: 20000 ops 28694.40 ops/sec 0/9/1.740
INCR: 20000 ops 39370.08 ops/sec 0/8/1.269
LPUSH: 20000 ops 36429.87 ops/sec 0/8/1.370
LRANGE (10 elements): 20000 ops 9891.20 ops/sec 1/9/5.048
LRANGE (100 elements): 20000 ops 1384.56 ops/sec 10/91/36.072
```

hiredis parser:

```
PING: 20000 ops 46189.38 ops/sec 1/4/1.082
SET: 20000 ops 41237.11 ops/sec 0/6/1.210
GET: 20000 ops 39682.54 ops/sec 1/7/1.257
INCR: 20000 ops 40080.16 ops/sec 0/8/1.242
LPUSH: 20000 ops 41152.26 ops/sec 0/3/1.212
LRANGE (10 elements): 20000 ops 36563.07 ops/sec 1/8/1.363
LRANGE (100 elements): 20000 ops 21834.06 ops/sec 0/9/2.287
```

The performance of `node_redis` improves dramatically with pipelining, which happens automatically in most normal programs.

Sending Commands

Each Redis command is exposed as a function on the `client` object. All functions take either an `args` Array plus optional `callback` Function or a variable number of individual arguments followed by an optional callback. Here is an example of passing an array of arguments and a callback:

```
client.mset(["test keys 1", "test val 1", "test keys 2", "test val 2"], function (err, res) {});
```

Here is that same call in the second style:

```
client.mset("test keys 1", "test val 1", "test keys 2", "test val 2", function (err, res) {});
```

Note that in either form the `callback` is optional:


```
client.set("some key", "some val");
client.set(["some other key", "some val"]);
```

If the key is missing, reply will be null (probably):

```
client.get("missingkey", function(err, reply) {
  // reply is null when the key is missing
  console.log(reply);
});
```

For a list of Redis commands, see [Redis Command Reference](<http://redis.io/commands>)

The commands can be specified in uppercase or lowercase for convenience. `client.get()` is the same as `client.GET()`.

Minimal parsing is done on the replies. Commands that return a single line reply return JavaScript Strings, integer replies return JavaScript Numbers, "bulk" replies return node Buffers, and "multi bulk" replies return a JavaScript Array of node Buffers. `HGETALL` returns an Object with Buffers keyed by the hash keys.

API

Connection Events

`client` will emit some events about the state of the connection to the Redis server.

"ready"

`client` will emit `ready` a connection is established to the Redis server and the server reports that it is ready to receive commands. Commands issued before the `ready` event are queued, then replayed just before this event is emitted.

"connect"

`client` will emit `connect` at the same time as it emits `ready` unless `client.options.no_ready_check` is set. If this options is set, `connect` will be emitted when the stream is connected, and then you are free to try to send commands.

"error"

`client` will emit `error` when encountering an error connecting to the Redis server.

Note that "error" is a special event type in node. If there are no listeners for an "error" event, node will exit. This is usually what you want, but it can lead to some cryptic error messages like this:

```
mjr:~/work/node_redis (master)$ node example.js
```

```
node.js:50
  throw e;
  ^
Error: ECONNREFUSED, Connection refused
  at IOWatcher.callback (net:870:22)
  at node.js:607:9
```

Not very useful in diagnosing the problem, but if your program isn't ready to handle this, it is probably the right thing to just exit.

``client`` will also emit ``error`` if an exception is thrown inside of ``node_redis`` for whatever reason. It would be nice to distinguish these two cases.

```
### "end"
```

``client`` will emit ``end`` when an established Redis server connection has closed.

```
### "drain"
```

``client`` will emit ``drain`` when the TCP connection to the Redis server has been buffering, but is now writable. This event can be used to stream commands in to Redis and adapt to backpressure. Right now, you need to check ``client.command_queue.length`` to decide when to reduce your send rate. Then you can resume sending when you get ``drain``.

```
### "idle"
```

``client`` will emit ``idle`` when there are no outstanding commands that are awaiting a response.

```
## redis.createClient(port, host, options)
```

Create a new client connection. ``port`` defaults to ``6379`` and ``host`` defaults to ``127.0.0.1``. If you have ``redis-server`` running on the same computer as node, then the defaults for port and host are probably fine. ``options`` in an object with the following possible properties:

* ``parser``: which Redis protocol reply parser to use. Defaults to ``hiredis`` if that module is installed. This may also be set to ``javascript``.

* ``return_buffers``: defaults to ``false``. If set to ``true``, then all replies will be sent to callbacks as node Buffer objects instead of JavaScript Strings.

* ``detect_buffers``: default to ``false``. If set to ``true``, then replies will be sent to callbacks as node Buffer objects if any of the input arguments to the original command were Buffer objects.

This option lets you switch between Buffers and Strings on a per-command basis, whereas ``return_buffers`` applies to every command on a client.

* ``socket_nodelay``: defaults to ``true``. Whether to call `setNoDelay()` on the TCP stream, which disables the Nagle algorithm on the underlying socket. Setting this option to ``false`` can result in additional throughput at the cost of more latency. Most applications will want this set to ``true``.

* ``no_ready_check``: defaults to ``false``. When a connection is established to the Redis server, the server might still be loading the database from disk. While loading, the server not respond to any commands. To work around this,

`node_redis` has a "ready check" which sends the INFO` command to the server. The response from the INFO` command`

indicates whether the server is ready for more commands. When ready, `node_redis` emits a ready` event. Setting no_ready_check` to true` will inhibit this check.`

* `enable_offline_queue` defaults to true`. By default, if there is no active connection to the redis server, commands are added to a queue and are executed once the connection has been established. Setting enable_offline_queue` to false` will disable this feature and the callback will be execute immediately with an error, or an error will be thrown if no callback is specified.`

* `retry_max_delay` defaults to null`. By default every time the client tries to connect and fails time before reconnection (delay) almost doubles. This delay normally grows infinitely, but setting retry_max_delay` limits delay to maximum value, provided in milliseconds.`

* `connect_timeout` defaults to false`. By default client will try reconnecting until connected. Setting connect_timeout` limits total time for client to reconnect. Value is provided in milliseconds and is counted once the disconnect occurred.`

* `max_attempts` defaults to null`. By default client will try reconnecting until connected. Setting max_attempts` limits total amount of reconnects.`

* `auth_pass` defaults to null`. By default client will try connecting without auth. If set, client will run redis auth command on connect.`

```
```js
var redis = require("redis"),
 client = redis.createClient(null, null, {detect_buffers: true});

client.set("foo_rand000000000000", "OK");

// This will return a JavaScript String
client.get("foo_rand000000000000", function (err, reply) {
 console.log(reply.toString()); // Will print `OK`
});

// This will return a Buffer since original key is specified as a Buffer
client.get(new Buffer("foo_rand000000000000"), function (err, reply) {
 console.log(reply.toString()); // Will print ``
});
client.end();
```
```

`createClient()` returns a RedisClient` object that is named client` in all of the examples here.`

Unix Domain Socket

You can also create a connection to Redis server via the unix domain socket if the server has it enabled:

```
```js
```

```
var redis = require("redis");
var client = redis.createClient("/tmp/redis.sock");
...
```

Sample `redis.conf` configuration to enable unix domain socket listening:

```
``conf
unixsocket /tmp/redis.sock
unixsocketperm 755
...
```

See [issue #204](https://github.com/mranney/node\_redis/issues/204) for more information.

```
client.auth(password, callback)
```

When connecting to Redis servers that require authentication, the `AUTH` command must be sent as the first command after connecting. This can be tricky to coordinate with reconnections, the ready check, etc. To make this easier, `client.auth()` stashes `password` and will send it after each connection, including reconnections. `callback` is invoked only once, after the response to the very first `AUTH` command sent.

NOTE: Your call to `client.auth()` should not be inside the ready handler. If you are doing this wrong, `client` will emit an error that looks something like this `Error: Ready check failed: ERR operation not permitted`.

```
client.end()
```

Forcibly close the connection to the Redis server. Note that this does not wait until all replies have been parsed. If you want to exit cleanly, call `client.quit()` to send the `QUIT` command after you have handled all replies.

This example closes the connection to the Redis server before the replies have been read. You probably don't want to do this:

```
``js
var redis = require("redis"),
 client = redis.createClient();

client.set("foo_rand000000000000", "some fantastic value");
client.get("foo_rand000000000000", function (err, reply) {
 console.log(reply.toString());
});
client.end();
...
```

`client.end()` is useful for timeout cases where something is stuck or taking too long and you want to start over.

```
client.unref()
```

Call `unref()` on the underlying socket connection to the Redis server, allowing the program to exit once no more commands are pending.

This is an **experimental** feature, and only supports a subset of the Redis protocol. Any commands where client state is saved on the Redis server, e.g. `SUBSCRIBE` or the blocking `BL*` commands will **NOT** work with `unref()`.

```
```js
var redis = require("redis")
var client = redis.createClient()

/*
  Calling unref() will allow this program to exit immediately after the get command finishes. Otherwise the client
  would hang as long as the client-server connection is alive.
*/
client.unref()
client.get("foo", function (err, value){
  if (err) throw(err)
  console.log(value)
})
```
```

```
Friendlier hash commands
```

Most Redis commands take a single String or an Array of Strings as arguments, and replies are sent back as a single String or an Array of Strings.

When dealing with hash values, there are a couple of useful exceptions to this.

```
client.hgetall(hash)
```

The reply from an HGETALL command will be converted into a JavaScript Object by `node_redis`. That way you can interact with the responses using JavaScript syntax.

Example:

```
client.hmset("hosts", "mjr", "1", "another", "23", "home", "1234");
client.hgetall("hosts", function (err, obj) {
 console.dir(obj);
});
```

Output:

```
{ mjr: '1', another: '23', home: '1234' }
```

```
client.hmset(hash, obj, [callback])
```

Multiple values in a hash can be set by supplying an object:

```

client.HMSET(key2, {
 "0123456789": "abcdefghij", // NOTE: key and value will be coerced to strings
 "some manner of key": "a type of value"
});

```

The properties and values of this Object will be set as keys and values in the Redis hash.

```

client.hmset(hash, key1, val1, ... keyn, valn, [callback])

```

Multiple values may also be set by supplying a list:

```

client.HMSET(key1, "0123456789", "abcdefghij", "some manner of key", "a type of value");

```

```

Publish / Subscribe

```

Here is a simple example of the API for publish / subscribe. This program opens two client connections, subscribes to a channel on one of them, and publishes to that channel on the other:

```

```js
var redis = require("redis"),
    client1 = redis.createClient(), client2 = redis.createClient(),
    msg_count = 0;

client1.on("subscribe", function (channel, count) {
  client2.publish("a nice channel", "I am sending a message.");
  client2.publish("a nice channel", "I am sending a second message.");
  client2.publish("a nice channel", "I am sending my last message.");
});

client1.on("message", function (channel, message) {
  console.log("client1 channel " + channel + ": " + message);
  msg_count += 1;
  if (msg_count === 3) {
    client1.unsubscribe();
    client1.end();
    client2.end();
  }
});

client1.incr("did a thing");
client1.subscribe("a nice channel");
```

```

When a client issues a ``SUBSCRIBE`` or ``PSUBSCRIBE``, that connection is put into a "subscriber" mode. At that point, only commands that modify the subscription set are valid. When the subscription

set is empty, the connection is put back into regular mode.

If you need to send regular commands to Redis while in subscriber mode, just open another connection.

## ## Subscriber Events

If a client has subscriptions active, it may emit these events:

```
"message" (channel, message)
```

Client will emit `message` for every message received that matches an active subscription.

Listeners are passed the channel name as `channel` and the message Buffer as `message`.

```
"pmessage" (pattern, channel, message)
```

Client will emit `pmessage` for every message received that matches an active subscription pattern.

Listeners are passed the original pattern used with `PSUBSCRIBE` as `pattern`, the sending channel name as `channel`, and the message Buffer as `message`.

```
"subscribe" (channel, count)
```

Client will emit `subscribe` in response to a `SUBSCRIBE` command. Listeners are passed the channel name as `channel` and the new count of subscriptions for this client as `count`.

```
"psubscribe" (pattern, count)
```

Client will emit `psubscribe` in response to a `PSUBSCRIBE` command. Listeners are passed the original pattern as `pattern`, and the new count of subscriptions for this client as `count`.

```
"unsubscribe" (channel, count)
```

Client will emit `unsubscribe` in response to a `UNSUBSCRIBE` command. Listeners are passed the channel name as `channel` and the new count of subscriptions for this client as `count`. When `count` is 0, this client has left subscriber mode and no more subscriber events will be emitted.

```
"punsubscribe" (pattern, count)
```

Client will emit `punsubscribe` in response to a `PUNSUBSCRIBE` command. Listeners are passed the channel name as `channel` and the new count of subscriptions for this client as `count`. When `count` is 0, this client has left subscriber mode and no more subscriber events will be emitted.

```
client.multi([commands])
```

`MULTI` commands are queued up until an `EXEC` is issued, and then all commands are run atomically by Redis. The interface in `node\_redis` is to return an individual `Multi` object by calling `client.multi()`.

```
```js
```

```
var redis = require("./index"),
```

```

    client = redis.createClient(), set_size = 20;

client.sadd("bigset", "a member");
client.sadd("bigset", "another member");

while (set_size > 0) {
    client.sadd("bigset", "member " + set_size);
    set_size -= 1;
}

// multi chain with an individual callback
client.multi()
    .scard("bigset")
    .smembers("bigset")
    .keys("*", function (err, replies) {
        // NOTE: code in this callback is NOT atomic
        // this only happens after the the .exec call finishes.
        client.mget(replies, redis.print);
    })
    .dbsize()
    .exec(function (err, replies) {
        console.log("MULTI got " + replies.length + " replies");
        replies.forEach(function (reply, index) {
            console.log("Reply " + index + ": " + reply.toString());
        });
    });
}
```


Multi.exec(callback)


```

`client.multi()` is a constructor that returns a `Multi`` object. `Multi`` objects share all of the same command methods as `client`` objects do. Commands are queued up inside the `Multi`` object until `Multi.exec()` is invoked.

The `callback`` of `.exec()` will get invoked with two arguments:

- \* `err`` **type:** `null | Array`` `err`` is either null or an array of Error Objects corresponding the the sequence the commands where chained. The last item of the array will always be an `EXECABORT`` type of error originating from the `.exec()` itself.
- \* `results`` **type:** `null | Array`` `results`` is an array of responses corresponding the the sequence the commands where chained.

You can either chain together `MULTI`` commands as in the above example, or you can queue individual commands while still sending regular client command as in this example:

```

```js
var redis = require("redis"),
    client = redis.createClient(), multi;
```

```



```

// start a separate multi command queue
multi = client.multi();
multi.incr("incr thing", redis.print);
multi.incr("incr other thing", redis.print);

// runs immediately
client.mset("incr thing", 100, "incr other thing", 1, redis.print);

// drains multi queue and runs atomically
multi.exec(function (err, replies) {
 console.log(replies); // 101, 2
});

// you can re-run the same transaction if you like
multi.exec(function (err, replies) {
 console.log(replies); // 102, 3
 client.quit();
});
...

```

In addition to adding commands to the `MULTI` queue individually, you can also pass an array of commands and arguments to the constructor:

```

```js
var redis = require("redis"),
    client = redis.createClient(), multi;

client.multi([
  ["mget", "multifoo", "multibar", redis.print],
  ["incr", "multifoo"],
  ["incr", "multibar"]
]).exec(function (err, replies) {
  console.log(replies);
});
...

```

Monitor mode

Redis supports the `MONITOR` command, which lets you see all commands received by the Redis server across all client connections, including from other client libraries and other computers.

After you send the `MONITOR` command, no other commands are valid on that connection. `node_redis` will emit a `monitor` event for every new monitor message that comes across. The callback for the `monitor` event takes a timestamp from the Redis server and an array of command arguments.

Here is a simple example:

```

```js
var client = require("redis").createClient(),
 util = require("util");

client.monitor(function (err, res) {
 console.log("Entering monitoring mode.");
});

client.on("monitor", function (time, args) {
 console.log(time + ": " + util.inspect(args));
});
```

```

Extras

Some other things you might like to know about.

client.server_info

After the ready probe completes, the results from the INFO command are saved in the `client.server_info`` object.

The `versions`` key contains an array of the elements of the version string for easy comparison.

```

> client.server_info.redis_version
'2.3.0'
> client.server_info.versions
[ 2, 3, 0 ]

```

redis.print()

A handy callback function for displaying return values when testing. Example:

```

```js
var redis = require("redis"),
 client = redis.createClient();

client.on("connect", function () {
 client.set("foo_rand000000000000", "some fantastic value", redis.print);
 client.get("foo_rand000000000000", redis.print);
});
```

```

This will print:

```

Reply: OK
Reply: some fantastic value

```

Note that this program will not exit cleanly because the client is still connected.

```
## redis.debug_mode
```

Boolean to enable debug mode and protocol tracing.

```
```js
var redis = require("redis"),
 client = redis.createClient();

redis.debug_mode = true;

client.on("connect", function () {
 client.set("foo_rand000000000000", "some fantastic value");
});
```
```

This will display:

```
mjr:~/work/node_redis (master)$ node ~/example.js
send command: *3
$3
SET
$20
foo_rand000000000000
$20
some fantastic value

on_data: +OK
```

`send command` is data sent into Redis and `on_data` is data received from Redis.

```
## Multi-word commands
```

To execute redis multi-word commands like `SCRIPT LOAD` or `CLIENT LIST` pass the second word as first parameter:

```
client.script('load', 'return 1');
client.multi().script('load', 'return 1').exec(...);
client.multi(['script', 'load', 'return 1']).exec(...);
```

```
## client.send_command(command_name, args, callback)
```

Used internally to send commands to Redis. For convenience, nearly all commands that are published on the Redis Wiki have been added to the `client` object. However, if I missed any, or if new commands are introduced before this library is updated, you can use `send_command()` to send arbitrary commands to Redis.

All commands are sent as multi-bulk commands. `args` can either be an Array of arguments, or omitted.

```
## client.connected
```

Boolean tracking the state of the connection to the Redis server.

```
## client.command_queue.length
```

The number of commands that have been sent to the Redis server but not yet replied to. You can use this to enforce some kind of maximum queue depth for commands while connected.

Don't mess with `client.command_queue` though unless you really know what you are doing.

```
## client.offline_queue.length
```

The number of commands that have been queued up for a future connection. You can use this to enforce some kind of maximum queue depth for pre-connection commands.

```
## client.retry_delay
```

Current delay in milliseconds before a connection retry will be attempted. This starts at `250`.

```
## client.retry_backoff
```

Multiplier for future retry timeouts. This should be larger than 1 to add more time between retries. Defaults to 1.7. The default initial connection retry is 250, so the second retry will be 425, followed by 723.5, etc.

```
### Commands with Optional and Keyword arguments
```

This applies to anything that uses an optional `[WITHSCORES]` or `[LIMIT offset count]` in the redis.io/commands documentation.

Example:

```
```js
var args = ['myzset', 1, 'one', 2, 'two', 3, 'three', 99, 'ninety-nine'];
client.zadd(args, function (err, response) {
 if (err) throw err;
 console.log('added '+response+' items.');
```

```
 // -Infinity and +Infinity also work
 var args1 = ['myzset', '+inf', '-inf'];
 client.zrevrangebyscore(args1, function (err, response) {
 if (err) throw err;
 console.log('example1', response);
 // write your code here
 });

 var max = 3, min = 1, offset = 1, count = 2;
```

```

var args2 = ['myzset', max, min, 'WITHSCORES', 'LIMIT', offset, count];
client.zrevrangebyscore(args2, function (err, response) {
 if (err) throw err;
 console.log('example2', response);
 // write your code here
});
});
```

```

TODO

Better tests for auth, disconnect/reconnect, and all combinations thereof.

Stream large set/get values into and out of Redis. Otherwise the entire value must be in node's memory.

Performance can be better for very large values.

I think there are more performance improvements left in there for smaller values, especially for large lists of small values.

How to Contribute

- open a pull request and then wait for feedback (if [DTrejo](http://github.com/dtrejo) does not get back to you within 2 days, comment again with indignation!)

Contributors

Some people have have added features and fixed bugs in `node_redis` other than me.

Ordered by date of first contribution.

[Auto-generated](http://github.com/dtrejo/node-authors) on Wed Jul 25 2012 19:14:59 GMT-0700 (PDT).

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Thanks.

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![spacer](http://ranney.com/1px.gif)

1.671 redis 0.12.1

1.671.1 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 `hireis` C library, which is non-blocking and fast. To use `hireis`, do:

```
npm install hireis redis
```

If `hireis` is installed, `node_redis` will use it by default. Otherwise, a pure JavaScript parser will be used.

If you use `hireis`, be sure to rebuild it whenever you upgrade your version of node. There are mysterious failures that can happen between node and native code modules after a node upgrade.

Usage

Simple example, included as `examples/simple.js`:

```
```js
var redis = require("redis"),
 client = redis.createClient();

// if you'd like to select database 3, instead of 0 (default), call
// client.select(3, function() { /* ... */ });

client.on("error", function (err) {
 console.log("Error " + err);
});

client.set("string key", "string val", redis.print);
client.hset("hash key", "hashtest 1", "some value", redis.print);
client.hset(["hash key", "hashtest 2", "some other value"], redis.print);
client.hkeys("hash key", function (err, replies) {
 console.log(replies.length + " replies:");
```

```

 replies.forEach(function (reply, i) {
 console.log(" " + i + ": " + reply);
 });
 client.quit();
 });
 ...

```

This will display:

```

mjr:~/work/node_redis (master)$ node example.js
Reply: OK
Reply: 0
Reply: 0
2 replies:
 0: hashtest 1
 1: hashtest 2
mjr:~/work/node_redis (master)$

```

## ## Performance

Here are typical results of `multi\_bench.js` which is similar to `redis-benchmark` from the Redis distribution. It uses 50 concurrent connections with no pipelining.

JavaScript parser:

```

PING: 20000 ops 42283.30 ops/sec 0/5/1.182
SET: 20000 ops 32948.93 ops/sec 1/7/1.515
GET: 20000 ops 28694.40 ops/sec 0/9/1.740
INCR: 20000 ops 39370.08 ops/sec 0/8/1.269
LPUSH: 20000 ops 36429.87 ops/sec 0/8/1.370
LRANGE (10 elements): 20000 ops 9891.20 ops/sec 1/9/5.048
LRANGE (100 elements): 20000 ops 1384.56 ops/sec 10/91/36.072

```

hiredis parser:

```

PING: 20000 ops 46189.38 ops/sec 1/4/1.082
SET: 20000 ops 41237.11 ops/sec 0/6/1.210
GET: 20000 ops 39682.54 ops/sec 1/7/1.257
INCR: 20000 ops 40080.16 ops/sec 0/8/1.242
LPUSH: 20000 ops 41152.26 ops/sec 0/3/1.212
LRANGE (10 elements): 20000 ops 36563.07 ops/sec 1/8/1.363
LRANGE (100 elements): 20000 ops 21834.06 ops/sec 0/9/2.287

```

The performance of `node\_redis` improves dramatically with pipelining, which happens automatically in most normal programs.



### ### Sending Commands

Each Redis command is exposed as a function on the `client`` object.

All functions take either an `args`` Array plus optional `callback`` Function or a variable number of individual arguments followed by an optional callback.

Here is an example of passing an array of arguments and a callback:

```
client.mset(["test keys 1", "test val 1", "test keys 2", "test val 2"], function (err, res) {});
```

Here is that same call in the second style:

```
client.mset("test keys 1", "test val 1", "test keys 2", "test val 2", function (err, res) {});
```

Note that in either form the `callback`` is optional:

```
client.set("some key", "some val");
client.set(["some other key", "some val"]);
```

If the key is missing, reply will be null (probably):

```
client.get("missingkey", function(err, reply) {
 // reply is null when the key is missing
 console.log(reply);
});
```

For a list of Redis commands, see [Redis Command Reference](<http://redis.io/commands>)

The commands can be specified in uppercase or lowercase for convenience. `client.get()`` is the same as `client.GET()``.

Minimal parsing is done on the replies. Commands that return a single line reply return JavaScript Strings, integer replies return JavaScript Numbers, "bulk" replies return node Buffers, and "multi bulk" replies return a JavaScript Array of node Buffers. `HGETALL`` returns an Object with Buffers keyed by the hash keys.

### # API

#### ## Connection Events

`client`` will emit some events about the state of the connection to the Redis server.

##### ### "ready"

`client`` will emit `ready`` a connection is established to the Redis server and the server reports that it is ready to receive commands. Commands issued before the `ready`` event are queued, then replayed just before this event is emitted.

##### ### "connect"

``client`` will emit ``connect`` at the same time as it emits ``ready`` unless ``client.options.no_ready_check`` is set. If this options is set, ``connect`` will be emitted when the stream is connected, and then you are free to try to send commands.

```
"error"
```

``client`` will emit ``error`` when encountering an error connecting to the Redis server.

Note that "error" is a special event type in node. If there are no listeners for an "error" event, node will exit. This is usually what you want, but it can lead to some cryptic error messages like this:

```
mjr:~/work/node_redis (master)$ node example.js

node.js:50
 throw e;
 ^
Error: ECONNREFUSED, Connection refused
 at IOWatcher.callback (net:870:22)
 at node.js:607:9
```

Not very useful in diagnosing the problem, but if your program isn't ready to handle this, it is probably the right thing to just exit.

``client`` will also emit ``error`` if an exception is thrown inside of ``node_redis`` for whatever reason. It would be nice to distinguish these two cases.

```
"end"
```

``client`` will emit ``end`` when an established Redis server connection has closed.

```
"drain"
```

``client`` will emit ``drain`` when the TCP connection to the Redis server has been buffering, but is now writable. This event can be used to stream commands in to Redis and adapt to backpressure. Right now, you need to check ``client.command_queue.length`` to decide when to reduce your send rate. Then you can resume sending when you get ``drain``.

```
"idle"
```

``client`` will emit ``idle`` when there are no outstanding commands that are awaiting a response.

```
redis.createClient()
```

```
overloading
```

```
* redis.createClient() = redis.createClient(6379, '127.0.0.1', {})
* redis.createClient(options) = redis.createClient(6379, '127.0.0.1', options)
* redis.createClient(unix_socket, options)
```

\* `redis.createClient(port, host, options)`

If you have `redis-server` running on the same computer as node, then the defaults for port and host are probably fine. `options` in an object with the following possible properties:

\* `parser`: which Redis protocol reply parser to use. Defaults to `hiredis` if that module is installed.

This may also be set to `javascript`.

\* `return_buffers`: defaults to `false`. If set to `true`, then all replies will be sent to callbacks as node Buffer objects instead of JavaScript Strings.

\* `detect_buffers`: default to `false`. If set to `true`, then replies will be sent to callbacks as node Buffer objects if any of the input arguments to the original command were Buffer objects.

This option lets you switch between Buffers and Strings on a per-command basis, whereas `return_buffers` applies to

every command on a client.

\* `socket_nodelay`: defaults to `true`. Whether to call `setNoDelay()` on the TCP stream, which disables the Nagle algorithm on the underlying socket. Setting this option to `false` can result in additional throughput at the cost of more latency. Most applications will want this set to `true`.

\* `socket_keepalive` defaults to `true`. Whether the keep-alive functionality is enabled on the underlying socket.

\* `no_ready_check`: defaults to `false`. When a connection is established to the Redis server, the server might still be loading the database from disk. While loading, the server not respond to any commands. To work around this, `node_redis` has a "ready check" which sends the `INFO` command to the server. The response from the `INFO` command

indicates whether the server is ready for more commands. When ready, `node_redis` emits a `ready` event.

Setting `no_ready_check` to `true` will inhibit this check.

\* `enable_offline_queue`: defaults to `true`. By default, if there is no active connection to the redis server, commands are added to a queue and are executed once the connection has been established. Setting `enable_offline_queue` to `false` will disable this feature and the callback will be execute immediately with an error, or an error will be thrown if no callback is specified.

\* `retry_max_delay`: defaults to `null`. By default every time the client tries to connect and fails time before reconnection (delay) almost doubles. This delay normally grows infinitely, but setting `retry_max_delay` limits delay

to maximum value, provided in milliseconds.

\* `connect_timeout` defaults to `false`. By default client will try reconnecting until connected. Setting `connect_timeout`

limits total time for client to reconnect. Value is provided in milliseconds and is counted once the disconnect occurred.

\* `max_attempts` defaults to `null`. By default client will try reconnecting until connected. Setting `max_attempts` limits total amount of reconnects.

\* `auth_pass` defaults to `null`. By default client will try connecting without auth. If set, client will run `redis auth` command on connect.

\* `family` defaults to `IPv4`. The client connects in IPv4 if not specified or if the DNS resolution returns an IPv4 address.

You can force an IPv6 if you set the family to 'IPv6'. See nodejs net or dns modules how to use the family type.

```
```js
var redis = require("redis"),
    client = redis.createClient({detect_buffers: true});
```

```

client.set("foo_rand000000000000", "OK");

// This will return a JavaScript String
client.get("foo_rand000000000000", function (err, reply) {
  console.log(reply.toString()); // Will print `OK`
});

// This will return a Buffer since original key is specified as a Buffer
client.get(new Buffer("foo_rand000000000000"), function (err, reply) {
  console.log(reply.toString()); // Will print ``
});
client.end();
...

```

`createClient()` returns a `RedisClient` object that is named `client` in all of the examples here.

```
## client.auth(password, callback)
```

When connecting to Redis servers that require authentication, the `AUTH` command must be sent as the first command after connecting. This can be tricky to coordinate with reconnections, the ready check, etc. To make this easier, `client.auth()` stashes `password` and will send it after each connection, including reconnections. `callback` is invoked only once, after the response to the very first `AUTH` command sent.

NOTE: Your call to `client.auth()` should not be inside the ready handler. If you are doing this wrong, `client` will emit an error that looks something like this `Error: Ready check failed: ERR operation not permitted`.

```
## client.end()
```

Forcibly close the connection to the Redis server. Note that this does not wait until all replies have been parsed. If you want to exit cleanly, call `client.quit()` to send the `QUIT` command after you have handled all replies.

This example closes the connection to the Redis server before the replies have been read. You probably don't want to do this:

```

```js
var redis = require("redis"),
 client = redis.createClient();

client.set("foo_rand000000000000", "some fantastic value");
client.get("foo_rand000000000000", function (err, reply) {
 console.log(reply.toString());
});
client.end();
...

```

`client.end()` is useful for timeout cases where something is stuck or taking too long and you want to start over.

```
client.unref()
```

Call `unref()` on the underlying socket connection to the Redis server, allowing the program to exit once no more commands are pending.

This is an *experimental* feature, and only supports a subset of the Redis protocol. Any commands where client state is saved on the Redis server, e.g. `SUBSCRIBE` or the blocking `BL*` commands will *NOT* work with `unref()`.

```
```js
var redis = require("redis")
var client = redis.createClient()

/*
  Calling unref() will allow this program to exit immediately after the get command finishes. Otherwise the client
  would hang as long as the client-server connection is alive.
*/
client.unref()
client.get("foo", function (err, value){
  if (err) throw(err)
  console.log(value)
})
```
```

```
Friendlier hash commands
```

Most Redis commands take a single String or an Array of Strings as arguments, and replies are sent back as a single String or an Array of Strings.

When dealing with hash values, there are a couple of useful exceptions to this.

```
client.hgetall(hash)
```

The reply from an HGETALL command will be converted into a JavaScript Object by `node_redis`. That way you can interact with the responses using JavaScript syntax.

Example:

```
client.hmset("hosts", "mjr", "1", "another", "23", "home", "1234");
client.hgetall("hosts", function (err, obj) {
 console.dir(obj);
});
```

Output:

```
{ mjr: '1', another: '23', home: '1234' }
```

```
client.hmset(hash, obj, [callback])
```

Multiple values in a hash can be set by supplying an object:

```
client.HMSET(key2, {
 "0123456789": "abcdefghij", // NOTE: key and value will be coerced to strings
 "some manner of key": "a type of value"
});
```

The properties and values of this Object will be set as keys and values in the Redis hash.

```
client.hmset(hash, key1, val1, ... keyn, valn, [callback])
```

Multiple values may also be set by supplying a list:

```
client.HMSET(key1, "0123456789", "abcdefghij", "some manner of key", "a type of value");
```

```
Publish / Subscribe
```

Here is a simple example of the API for publish / subscribe. This program opens two client connections, subscribes to a channel on one of them, and publishes to that channel on the other:

```
```js
var redis = require("redis"),
    client1 = redis.createClient(), client2 = redis.createClient(),
    msg_count = 0;

client1.on("subscribe", function (channel, count) {
  client2.publish("a nice channel", "I am sending a message.");
  client2.publish("a nice channel", "I am sending a second message.");
  client2.publish("a nice channel", "I am sending my last message.");
});

client1.on("message", function (channel, message) {
  console.log("client1 channel " + channel + ": " + message);
  msg_count += 1;
  if (msg_count === 3) {
    client1.unsubscribe();
    client1.end();
    client2.end();
  }
});

client1.incr("did a thing");
```

```
client1.subscribe("a nice channel");  
...
```

When a client issues a `SUBSCRIBE` or `PUBLISH`, 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 `PUBLISH` 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 `PUBLISH` command. Listeners are passed the original pattern as `pattern`, and the new count of subscriptions for this client as `count`.

"unsubscribe" (channel, count)

Client will emit `unsubscribe` in response to a `UNSUBSCRIBE` command. Listeners are passed the channel name as `channel` and the new count of subscriptions for this client as `count`. When `count` is 0, this client has left subscriber mode and no more subscriber events will be emitted.

"punsubscribe" (pattern, count)

Client will emit `punsubscribe` in response to a `PUNSUBSCRIBE` command. Listeners are passed the channel name as `channel` and the new count of subscriptions for this client as `count`. When `count` is 0, this client has left subscriber mode and no more subscriber events will be emitted.

client.multi(commands)

``MULTI`` commands are queued up until an ``EXEC`` is issued, and then all commands are run atomically by Redis. The interface in ``node_redis`` is to return an individual ``Multi`` object by calling ``client.multi()``.

```
``js
var redis = require("./index"),
    client = redis.createClient(), set_size = 20;

client.sadd("bigset", "a member");
client.sadd("bigset", "another member");

while (set_size > 0) {
  client.sadd("bigset", "member " + set_size);
  set_size -= 1;
}

// multi chain with an individual callback
client.multi()
  .scard("bigset")
  .smembers("bigset")
  .keys("*", function (err, replies) {
    // NOTE: code in this callback is NOT atomic
    // this only happens after the the .exec call finishes.
    client.mget(replies, redis.print);
  })
  .dbsize()
  .exec(function (err, replies) {
    console.log("MULTI got " + replies.length + " replies");
    replies.forEach(function (reply, index) {
      console.log("Reply " + index + ": " + reply.toString());
    });
  });
...

```

Multi.exec(callback)

``client.multi()`` is a constructor that returns a ``Multi`` object. ``Multi`` objects share all of the same command methods as ``client`` objects do. Commands are queued up inside the ``Multi`` object until ``Multi.exec()`` is invoked.

The ``callback`` of ``exec()`` will get invoked with two arguments:

* ``err`` **type:** ``null | Array`` ``err`` is either null or an array of Error Objects corresponding the the sequence the commands where chained. The last item of the array will always be an ``EXECABORT`` type of error originating from the ``exec()`` itself.

* ``results`` **type:** ``null | Array`` ``results`` is an array of responses corresponding the the sequence the commands where chained.

You can either chain together ``MULTI`` commands as in the above example, or you can queue individual

commands while still sending regular client command as in this example:

```
```js
var redis = require("redis"),
 client = redis.createClient(), multi;

// start a separate multi command queue
multi = client.multi();
multi.incr("incr thing", redis.print);
multi.incr("incr other thing", redis.print);

// runs immediately
client.mset("incr thing", 100, "incr other thing", 1, redis.print);

// drains multi queue and runs atomically
multi.exec(function (err, replies) {
 console.log(replies); // 101, 2
});

// you can re-run the same transaction if you like
multi.exec(function (err, replies) {
 console.log(replies); // 102, 3
 client.quit();
});
```
```

In addition to adding commands to the `MULTI` queue individually, you can also pass an array of commands and arguments to the constructor:

```
```js
var redis = require("redis"),
 client = redis.createClient(), multi;

client.multi([
 ["mget", "multifoo", "multibar", redis.print],
 ["incr", "multifoo"],
 ["incr", "multibar"]
]).exec(function (err, replies) {
 console.log(replies);
});
```
```

Monitor mode

Redis supports the `MONITOR` command, which lets you see all commands received by the Redis server across all client connections, including from other client libraries and other computers.

After you send the `MONITOR` command, no other commands are valid on that connection. `node_redis` will emit a `monitor` event for every new monitor message that comes across. The callback for the `monitor` event takes a timestamp from the Redis server and an array of command arguments.

Here is a simple example:

```
```js
var client = require("redis").createClient(),
 util = require("util");

client.monitor(function (err, res) {
 console.log("Entering monitoring mode.");
});

client.on("monitor", function (time, args) {
 console.log(time + ": " + util.inspect(args));
});
```
```

`## Extras`

Some other things you might like to know about.

`## client.server_info`

After the ready probe completes, the results from the `INFO` command are saved in the `client.server_info` object.

The `versions` key contains an array of the elements of the version string for easy comparison.

```
> client.server_info.redis_version
'2.3.0'
> client.server_info.versions
[ 2, 3, 0 ]
```

`## redis.print()`

A handy callback function for displaying return values when testing. Example:

```
```js
var redis = require("redis"),
 client = redis.createClient();

client.on("connect", function () {
 client.set("foo_rand000000000000", "some fantastic value", redis.print);
 client.get("foo_rand000000000000", redis.print);
});
```
```

This will print:

```
Reply: OK
Reply: some fantastic value
```

Note that this program will not exit cleanly because the client is still connected.

```
## redis.debug_mode
```

Boolean to enable debug mode and protocol tracing.

```
```js
var redis = require("redis"),
 client = redis.createClient();

redis.debug_mode = true;

client.on("connect", function () {
 client.set("foo_rand000000000000", "some fantastic value");
});
```
```

This will display:

```
mjr:~/work/node_redis (master)$ node ~/example.js
send command: *3
$3
SET
$20
foo_rand000000000000
$20
some fantastic value

on_data: +OK
```

``send command`` is data sent into Redis and ``on_data`` is data received from Redis.

```
## Multi-word commands
```

To execute redis multi-word commands like ``SCRIPT LOAD`` or ``CLIENT LIST`` pass the second word as first parameter:

```
client.script('load', 'return 1');
client.multi().script('load', 'return 1').exec(...);
client.multi(['script', 'load', 'return 1']).exec(...);

## client.send_command(command_name, args, callback)
```

Used internally to send commands to Redis. For convenience, nearly all commands that are published on the Redis Wiki have been added to the `client` object. However, if I missed any, or if new commands are introduced before this library is updated, you can use `send_command()` to send arbitrary commands to Redis.

All commands are sent as multi-bulk commands. `args` can either be an Array of arguments, or omitted.

```
## client.connected
```

Boolean tracking the state of the connection to the Redis server.

```
## client.command_queue.length
```

The number of commands that have been sent to the Redis server but not yet replied to. You can use this to enforce some kind of maximum queue depth for commands while connected.

Don't mess with `client.command_queue` though unless you really know what you are doing.

```
## client.offline_queue.length
```

The number of commands that have been queued up for a future connection. You can use this to enforce some kind of maximum queue depth for pre-connection commands.

```
## client.retry_delay
```

Current delay in milliseconds before a connection retry will be attempted. This starts at `250`.

```
## client.retry_backoff
```

Multiplier for future retry timeouts. This should be larger than 1 to add more time between retries. Defaults to 1.7. The default initial connection retry is 250, so the second retry will be 425, followed by 723.5, etc.

```
### Commands with Optional and Keyword arguments
```

This applies to anything that uses an optional `[WITHSCORES]` or `[LIMIT offset count]` in the redis.io/commands documentation.

Example:

```
```js
var args = ['myzset', 1, 'one', 2, 'two', 3, 'three', 99, 'ninety-nine'];
client.zadd(args, function (err, response) {
 if (err) throw err;
 console.log('added '+response+' items.');
```

```
 // -Infinity and +Infinity also work
 var args1 = ['myzset', '+inf', '-inf'];
 client.zrevrangebyscore(args1, function (err, response) {
 if (err) throw err;
```

```

 console.log('example1', response);
 // write your code here
 });

 var max = 3, min = 1, offset = 1, count = 2;
 var args2 = ['myzset', max, min, 'WITHSCORES', 'LIMIT', offset, count];
 client.zrevrangebyscore(args2, function (err, response) {
 if (err) throw err;
 console.log('example2', response);
 // write your code here
 });
});
...

```

## TODO

Better tests for auth, disconnect/reconnect, and all combinations thereof.

Stream large set/get values into and out of Redis. Otherwise the entire value must be in node's memory.

Performance can be better for very large values.

I think there are more performance improvements left in there for smaller values, especially for large lists of small values.

## How to Contribute

- open a pull request and then wait for feedback (if [DTrejo](http://github.com/dtrejo) does not get back to you within 2 days, comment again with indignation!)

## Contributors

Some people have have added features and fixed bugs in `node\_redis` other than me.

Ordered by date of first contribution.

[Auto-generated](http://github.com/dtrejo/node-authors) on Wed Jul 25 2012 19:14:59 GMT-0700 (PDT).

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Thanks.

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![spacer](http://ranney.com/1px.gif)

# 1.672 reduce-component 1.0.1

## 1.672.1 Available under license :

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## 1.673 reflect 0.0.7

### 1.673.1 Available under license :

![Reflect.js](https://github.com/zaach/reflect.js/raw/master/reflectjs.png "Reflect.js")

Reflect.js is a JavaScript (ES3 compatible) implementation of [Mozilla's Parser

API]([https://developer.mozilla.org/en/SpiderMonkey/Parser\\_API](https://developer.mozilla.org/en/SpiderMonkey/Parser_API)). It does not currently support some of Mozilla's extensions, such as generators, list comprehensions, `for each`, E4X, etc. but may eventually support ones that are, or become Harmony proposals.

Builders are also supported.

Parsing really large files can be slow, for reasons [articulated](<http://www.andychu.net/ecmascript/RegExp-Enhancements.html>) by Andy Chu.

## Download

=====

You can download a minified-standalone version of reflect.js to embed in web pages [here](<https://raw.github.com/zaach/reflect.js/master/standalone/reflect.js>).

## Install

=====

Reflect.js is available as a CommonJS module for Node.js. Simply install it with npm:

```
npm install reflect
```

## Use

=====

```
var Reflect = require('reflect');

var ast = Reflect.parse("var a = 4 + 7");

console.log(Reflect.stringify(ast, " "));
```

Refer to [Mozilla's docs]([https://developer.mozilla.org/en/SpiderMonkey/Parser\\_API](https://developer.mozilla.org/en/SpiderMonkey/Parser_API)) for details on the AST interface.

## Builders

=====

The optional [builder]([https://developer.mozilla.org/en/SpiderMonkey/Parser\\_API#Builder\\_objects](https://developer.mozilla.org/en/SpiderMonkey/Parser_API#Builder_objects)) parameter to Reflect.parse() makes it possible to construct user-specified data from the parser, rather than the default Node objects.

The reflect.js module exports the [default builder](<https://raw.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.

```
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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## 1.674 regexp-clone 0.0.1

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## 1.675 replace 0.2.9

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NO LICENSE INFORMATION AVAILABLE. Possible Contact (in addition to <https://www.npmjs.com>):

"author": "Heather Arthur <fayearthur@gmail.com>",

"url": "http://github.com/harthur/replace.git"

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## 1.689 response-time 1.0.0

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# Response Time

Response time middleware extracted from connect.

Usage:

```
```js
var responseTime = require('response-time');

app.use(responseTime());
```
```

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# 1.692 restler 3.2.0

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## 1.693 retry 0.6.1

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## 1.694 revalidator 0.1.8

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# 1.697 rndm 1.1.0

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```
{
 "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"
]
}
```

## 1.698 root-require 0.3.1

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<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

```
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License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.
```

```
This library is distributed in the hope that it will be useful,
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Lesser General Public License for more details.
```

```
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License along with this library; if not, write to the Free Software
Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
```

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```
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library `Frob' (a library for tweaking knobs) written by James
Random Hacker.
```



<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!

## 1.701 ruby-shadow 1.4.1 :23.el7

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## 1.702 samsam 1.1.2

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## 1.703 sax 0.3.5

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```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
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October 2006 - Apple Inc. build 13), see www.w3.org" /><title>W3C Software Notice and License</title><link
rel="stylesheet" href="/2008/site/css/minimum" type="text/css" media="handheld, all" /><style type="text/css"
media="print, screen and (min-width: 481px)" xml:space="preserve">
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</style><link href="/2008/site/css/minimum" rel="stylesheet" type="text/css" media="handheld, only screen and
(max-device-width: 480px)" /><meta name="viewport" content="width=device-width" /><link rel="stylesheet"
href="/2008/site/css/print" type="text/css" media="print" /><link rel="shortcut icon"
href="/2008/site/images/favicon.ico" type="image/x-icon" /></head><body id="www-w3-org"
class="w3c_public"><div id="w3c_container">
```

```
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 <h1 class="logo">

 W3C
</h1>

<div id="w3c_nav">

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class="w3c_sec_nav"><!-- --></div><ul class="main_nav"><li class="first-item">
 Standards

 Participate

 Membership
<li class="last-item">
 About W3C
<li class="search-item">
 <div id="search-form">
 <input tabindex="3" class="text" name="q" value="" title="Search" type="text" />
 <button id="search-submit" name="search-submit" type="submit"></button>
 </div>
</form>

</div>

</div>

<div id="w3c_main">
 <div id="w3c_logo_shadow" class="w3c_leftCol">

 </div>

 <div class="w3c_leftCol"><h2 class="offscreen">Site Navigation</h2>
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and Legal Information">Policies and Legal Information </h3>
 <ul class="theme">
 Licenses for W3C Test Suites
 Policies for Contribution of Test Cases to W3C
 Intellectual Rights FAQ
 W3C Privacy Statements
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License
 W3C Trademarks and Generic
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```

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 W3C Software Notice and License
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Collaborators Agreement
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</div>
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 <div id="w3c_crumbs">
<div id="w3c_crumbs_frame">
 <ul class="bct"> <!-- .bct / Breadcrumbs -->
 <li class="skip"><a tabindex="1" accesskey="2" title="Skip to content (e.g., when browsing via audio)"
href="#w3c_content_body">Skip
 W3C »
 About<#xA0;W3C »
 Facts<#xA0;About<#xA0;W3C »
 <a href="/Consortium/Legal/ipr-
notice.html">Policies<#xA0;and<#xA0;Legal<#xA0;Information »
 <li class="current">W3C Software Notice and License

</div>
</div>
</div>
 <h1 class="title">W3C Software Notice and License</h1>
 <div id="w3c_content_body">
 <div class="line">
 <p class="intro tPadding">This work (and included software, documentation such as READMEs, or
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related items) is being provided by the copyright holders under the following
license.</p>
<h2>License</h2>

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```

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</div>

</div>

</div>

</div>

```

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 <div id="w3c_footer-inner">
 <h2 class="offscreen">Footer Navigation</h2>
 <div class="w3c_footer-nav">
 <h3>Navigation</h3>
 <ul class="footer_top_nav">
 Home

 Standards

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 <li class="last-item">
 About W3C

 </div>
 <div class="w3c_footer-nav">
 <h3>Contact W3C</h3>
 <ul class="footer_bottom_nav">
 Contact

 Help and FAQ

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 <address id="w3c_signature">
 Feedback</address>

 </div>
 <div class="w3c_footer-nav">
 <h3>W3C Updates</h3>
 <ul class="footer_follow_nav">

 </div>

```

```
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,
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apply.</p>
</div>
</div><!-- Generated from data/scripts.php, ../smarty/{scripts.tpl} --><!-- At the bottom for performance
reasons --><div id="w3c_scripts">
 <script type="text/javascript" src="/2008/site/js/main" xml:space="preserve"><!-- --></script>
</div></body></html>
```

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## 1.706 scmp 1.0.0

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## 1.707 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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# send

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## Installation

```
$ npm install send
```

## Examples

Small:

```
```js
var http = require('http');
var send = require('send');

var app = http.createServer(function(req, res){
  send(req, req.url).pipe(res);
}).listen(3000);
```
```

Serving from a root directory with custom error-handling:

```
```js
var http = require('http');
var send = require('send');
var url = require('url');

var app = http.createServer(function(req, res){
  // your custom error-handling logic:

```

```

function error(err) {
  res.statusCode = err.status || 500;
  res.end(err.message);
}

// your custom directory handling logic:
function redirect() {
  res.statusCode = 301;
  res.setHeader('Location', req.url + '/');
  res.end('Redirecting to ' + req.url + '/');
}

// transfer arbitrary files from within
// /www/example.com/public/*
send(req, url.parse(req.url).pathname, {root: '/www/example.com/public'})
.on('error', error)
.on('directory', redirect)
.pipe(res);
}).listen(3000);
...

```

API

Options

etag

Enable or disable etag generation, defaults to true.

hidden

Enable or disable transfer of hidden files, defaults to false.

index

By default send supports "index.html" files, to disable this set `false` or to supply a new index pass a string or an array in preferred order.

maxage

Provide a max-age in milliseconds for http caching, defaults to 0.

root

Serve files relative to `path`.

Events

- `error` an error occurred `(err)`
- `directory` a directory was requested
- `file` a file was requested `(path, stat)`
- `stream` file streaming has started `(stream)`
- `end` streaming has completed

.etag(bool)

Enable or disable etag generation, defaults to true.

.root(dir)

Serve files relative to `path`. Aliased as `.from(dir)`.

.index(paths)

By default send supports "index.html" files, to disable this invoke `.index(false)` or to supply a new index pass a string or an array in preferred order.

.maxage(ms)

Provide a max-age in milliseconds for http caching, defaults to 0.

.hidden(bool)

Enable or disable transfer of hidden files, defaults to false.

Error-handling

By default when no `error` listeners are present an automatic response will be made, otherwise you have full control over the response, aka you may show a 5xx page etc.

Caching

It does not perform internal caching, you should use a reverse proxy cache such as Varnish for this, or those fancy things called CDNs. If your application is small enough that it would benefit from single-node memory caching, it's small enough that it does not need caching at all ;).

Debugging

To enable `debug()` instrumentation output export `__DEBUG__`:

```
$ DEBUG=send node app
```

```
## Running tests
```

```
...
```

```
$ npm install
```

```
$ make test
```

```
...
```

```
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```

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send

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Installation

```
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```

Examples

Small:

```
```js
var http = require('http');
var send = require('send');

var app = http.createServer(function(req, res){
 send(req, req.url).pipe(res);
});
```
```

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```
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var http = require('http');
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var app = http.createServer(function(req, res){
 // your custom error-handling logic:

```

```

function error(err) {
 res.statusCode = err.status || 500;
 res.end(err.message);
}

// your custom directory handling logic:
function redirect() {
 res.statusCode = 301;
 res.setHeader('Location', req.url + '/');
 res.end('Redirecting to ' + req.url + '/');
}

// transfer arbitrary files from within
// /www/example.com/public/*
send(req, url.parse(req.url).pathname)
.root('/www/example.com/public')
.on('error', error)
.on('directory', redirect)
.pipe(res);
});
```

```

API

Events

- `error` an error occurred `(err)`
- `directory` a directory was requested
- `stream` file streaming has started `(stream)`
- `end` streaming has completed

.root(dir)

Serve files relative to `path`. Aliased as `.from(dir)`.

.index(path)

By default send supports "index.html" files, to disable this invoke `.index(false)` or to supply a new index pass a string.

.maxage(ms)

Provide a max-age in milliseconds for http caching, defaults to 0.

Error-handling

By default when no `error` listeners are present an automatic response will be made, otherwise you have full control over the response, aka you may show a 5xx page etc.

Caching

It does `_not_` perform internal caching, you should use a reverse proxy cache such as Varnish for this, or those fancy things called CDNs. If your application is small enough that it would benefit from single-node memory caching, it's small enough that it does not need caching at all ;).

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```

Running tests

```
$ npm install
```

```
$ make test
```

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```
# send
```

Send is Connect's `static()` extracted for generalized use, a streaming static file server supporting partial responses (Ranges), conditional-GET negotiation, high test coverage, and granular events which may be leveraged to take appropriate actions in your application or framework.

```
## Installation
```

```
$ npm install send
```

```
## Examples
```

Small:

```
```js
var http = require('http');
var send = require('send');

var app = http.createServer(function(req, res){
 send(req, req.url).pipe(res);
}).listen(3000);
```
```

Serving from a root directory with custom error-handling:

```
```js
var http = require('http');
var send = require('send');
var url = require('url');
```



```

var app = http.createServer(function(req, res){
 // your custom error-handling logic:
 function error(err) {
 res.statusCode = err.status || 500;
 res.end(err.message);
 }

 // your custom directory handling logic:
 function redirect() {
 res.statusCode = 301;
 res.setHeader('Location', req.url + '/');
 res.end('Redirecting to ' + req.url + '/');
 }

 // transfer arbitrary files from within
 // /www/example.com/public/*
 send(req, url.parse(req.url).pathname)
 .root('/www/example.com/public')
 .on('error', error)
 .on('directory', redirect)
 .pipe(res);
}).listen(3000);
...

```

## API

### Events

- `error` an error occurred `(err)`
- `directory` a directory was requested
- `file` a file was requested `(path, stat)`
- `stream` file streaming has started `(stream)`
- `end` streaming has completed

### .root(dir)

Serve files relative to `path`. Aliased as `.from(dir)`.

### .index(path)

By default send supports "index.html" files, to disable this invoke `.index(false)` or to supply a new index pass a string.

### .maxage(ms)

Provide a max-age in milliseconds for http caching, defaults to 0.

### .hidden(bool)

Enable or disable transfer of hidden files, defaults to false.

## Error-handling

By default when no `error` listeners are present an automatic response will be made, otherwise you have full control over the response, aka you may show a 5xx page etc.

## Caching

It does not perform internal caching, you should use a reverse proxy cache such as Varnish for this, or those fancy things called CDNs. If your application is small enough that it would benefit from single-node memory caching, it's small enough that it does not need caching at all ;).

## Debugging

To enable `debug()` instrumentation output export `__DEBUG__`:

...

```
$ DEBUG=send node app
```

...

## Running tests

...

```
$ npm install
```

```
$ make test
```

...

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## 1.729 should 3.1.3

### 1.729.1 Available under license :

# should.js

`__should__` is an expressive, readable, test framework agnostic, assertion library. Main goals of this library `__to be expressive__` and `__to be helpful__`. It keeps your test code clean, and your error messages helpful.

It extends the `Object.prototype`` with a single non-enumerable getter that allows you to express how that object should behave, also it returns itself when required with `require``.

## Example

```
```javascript
```

```
var should = require('should');
```

```

var user = {
  name: 'tj'
  , pets: ['tobi', 'loki', 'jane', 'bandit']
};

user.should.have.property('name', 'tj');
user.should.have.property('pets').with.lengthOf(4);

// if the object was created with Object.create(null)
// then it doesn't inherit `Object` and have the `should` getter
// so you can do:

should(user).have.property('name', 'tj');
should(true).ok;

someAsyncTask(foo, function(err, result){
  should.not.exist(err);
  should.exist(result);
  result.bar.should.equal(foo);
});
```


To begin


```

#### 1. Install it:

```

```bash
$ npm install should --save-dev
```

```

#### 2. Require it and use:

```

```js
var should = require('should');

(5).should.be.exactly(5).and.be.a.Number;
```

```

#### ## In browser

If you want to use `_should_` in browser, use the ``should.js`` file in the root of this repository, or build it yourself. It is built with browserify (see [Makefile](https://github.com/visionmedia/should.js/blob/master/Makefile)). To build a fresh version:

```

```bash
# you should have browserify
$ npm install -g browserify
$ make browser
```

```

...

The script is exported to `window.Should`. It is the same as using `should` statically:

```
```js
Should(5).be.exactly(5)
```
```

Also, in the case of `node.js`, `Object.prototype` is extended with `should` (hence the capital S in `window.Should`):

```
```js
window.should.be.exactly(window);
// the same
// window is host object
should.be.exactly(window);
// you should not really care about it

(5).should.be.exactly(5);
```
```

`*should.js*` uses EcmaScript 5 very extensively so any browser that support ES5 is supported. (IE <=8 not supported).

See [kangax's compat table](<http://kangax.github.io/es5-compat-table>) to know which exactly.

You can easy install it with npm or bower:

```
...
npm install should --save-dev
or
bower install visionmedia/should.js
...

```

## Static should and assert module

For some rare cases should can be used statically, without `Object.prototype`.

It can be a replacement for the node assert module:

```
```javascript
assert.fail(actual, expected, message, operator) // just write wrong should assertion
assert(value, message), assert.ok(value, [message]) // should(value).ok
assert.equal(actual, expected, [message]) // should(actual).eql(expected, [message])
assert.notEqual(actual, expected, [message]) // should(actual).not.eql(expected, [message])
assert.deepEqual(actual, expected, [message]) // should(actual).eql(expected, [message])
assert.notDeepEqual(actual, expected, [message]) // should(actual).not.eql(expected, [message])
assert.strictEqual(actual, expected, [message]) // should(actual).equal(expected, [message])
assert.notStrictEqual(actual, expected, [message]) // should(actual).not.equal(expected, [message])
assert.throws(block, [error], [message]) // should(block).throw([error])
assert.doesNotThrow(block, [message]) // should(block).not.throw([error])
assert.ifError(value) // should(value).Error (to check if it is error) or should(value).not.ok (to check that it is falsy)
```
```

...

## .not

`.not` negate current assertion.`

# Assertions

## chaining assertions

Every assertion will return a `should.js`-wrapped Object`, so assertions can be chained.

To help chained assertions read more clearly, you can use the following helpers anywhere in your chain: `.an``, `.of``, `.a``, `.and``, `.be``, `.have``, `.with``, `.is``, `.which``. Use them for better readability; they do nothing at all.

For example:

```
```js
```

```
user.should.be.an.instanceOf(Object).and.have.property('name', 'tj');
```

```
user.pets.should.be.instanceof(Array).and.have.lengthOf(4);
```

```
```
```

Almost all assertions return the same object - so you can easy chain them. But some (eg: `.length`` and `.property``) move the assertion object to a property value, so be careful.

## .ok

Assert if chained object is truthy in javascript (ie: not "", null, undefined, 0, NaN).

Assert truthfulness:

```
```javascript
```

```
true.should.be.ok;
```

```
'yay'.should.be.ok;
```

```
(1).should.be.ok;
```

```
({}).should.be.ok;
```

```
```
```

or negated:

```
```javascript
```

```
false.should.not.be.ok;
```

```
".should.not.be.ok;
```

```
(0).should.not.be.ok;
```

```
```
```

*\*Warning:\** No assertions can be done on null and undefined.

e.g.

```
```js
```

```
undefined.should.not.be.ok;
```

```
```
```

will give you ``Uncaught TypeError: Cannot read property 'should' of undefined``.

## .true

Assert if chained object === true:

```
```javascript
true.should.be.true;
'1'.should.not.be.true;
```
```

## .false

Assert if chained object === false:

```
```javascript
false.should.be.false;
(0).should.not.be.false;
```
```

## .eql(otherValue)

Assert if chained object is *equal* to otherValue. The object is compared by its actual content, not just reference equality.

```
```javascript
({ foo: 'bar' }).should.eql({ foo: 'bar' });
[1,2,3].should.eql([1,2,3]);
// see next example it is correct, even if it is different types, but actual content the same
[1, 2, 3].should.eql({ '0': 1, '1': 2, '2': 3 });
```
```

## .equal(otherValue) and .exactly(otherValue)

Assert if chained object is strictly equal to `otherValue` (using `===` - no type conversion for primitive types and reference equivalence for reference types).

```
```javascript
(4).should.equal(4);
'test'.should.equal('test');
[1,2,3].should.not.equal([1,2,3]);
(4).should.be.exactly(4);
```
```

## .startsWith(str)

Assert that a string starts with `str`.

```
```javascript
'foobar'.should.startsWith('foo');
'foobar'.should.not.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 (\leq to and \geq from):

```
```javascript
```

```
user.age.should.be.within(5, 50);
(5).should.be.within(5, 10).and.within(5, 5);
```

```
```
```

.approximately(num, delta)

Assert floating point number near `num` within `delta` margin:

```
```javascript
```

```
(99.99).should.be.approximately(100, 0.1);
```

```
```
```

.above(num) and .greaterThan(num)

Assert numeric value above the given value ($>$ num):

```
```javascript
```

```
user.age.should.be.above(5);
user.age.should.not.be.above(100);
(5).should.be.above(0);
(5).should.not.be.above(5);
```

```
```
```

.below(num) and .lessThan(num)

Assert numeric value below the given value ($<$ num):

```
```javascript
```

```
user.age.should.be.below(100);
user.age.should.not.be.below(5);
(5).should.be.below(6);
(5).should.not.be.below(5);
```

```
```
```

.NaN

Assert numeric value is NaN:

```
```javascript
(undefined + 0).should.be.NaN;
```
```

.Infinity

Assert numeric value is Infinity:

```
```javascript
(1/0).should.be.Infinity;
```
```

.type(str)

Assert given object is of a particular type (using `__typeof__` operator):

```
```javascript
user.should.be.type('object');
'test'.should.be.type('string');
```
```

.instanceof(constructor) and .instanceOf(constructor)

Assert given object is an instance of ``constructor`` (using `__instanceof__` operator):

```
```javascript
user.should.be.an.instanceof(User);
[].should.be.an.instanceOf(Array);
```
```

.arguments

Assert given object is an ``Arguments``:

```
```javascript
var args = (function(){ return arguments; })(1,2,3);
args.should.be.arguments;
[].should.not.be.arguments;
```
```

.Object, .Number, .Array, .Boolean, .Function, .String, .Error

Assert given object is instance of the given constructor (shortcut for ``instanceof`` assertion).

```
```javascript
```



```
{}).should.be.an.Object;
(1).should.be.a.Number;
[].should.be.an.Array.and.an.Object;
(true).should.be.a.Boolean;
".should.be.a.String;
...
```

```
.property(name[, value])
```

Assert property exists and has optional value (compare using `.eql``):

```
````javascript
user.should.have.property('name');
user.should.have.property('age', 15);
user.should.not.have.property('rawr');
user.should.not.have.property('age', 0);
[1, 2].should.have.property('0', 1);
...````
```

`__NB__` .property` changes the chain's object to the given property's value, so be careful when chaining after .property`!`

```
## .properties(propName1, propName2, ...) or .properties([propName1, propName2, ...]) or .properties(obj)
```

``obj` should be an object that maps properties to their actual values.`

Assert all given properties exist and have given values (compare using `.eql``):

```
````javascript
user.should.have.properties('name', 'age');
user.should.have.properties(['name', 'age']);
user.should.have.properties({
 name: 'denis',
 age: 24
});
...````
```

```
.length(number) and .lengthOf(number)
```

Assert `__length__` property exists and has a value of the given number (shortcut for .property('length', number)`):`

```
````javascript
user.pets.should.have.length(5);
user.pets.should.have.a.lengthOf(5);
({ length: 10 }).should.have.length(10);
...````
```

`__NB__` .length` and .lengthOf` change the chain's object to the given length value, so be careful when chaining!`

```
## .ownProperty(str) and .hasOwnProperty(str)
```

Assert given object has own property (using `.hasOwnProperty``):

```
```javascript
({ foo: 'bar' }).should.have.ownProperty('foo').equal('bar');
```
```

`__NB__` .ownProperty` and .hasOwnProperty` change the chain's object to the given property value, so be careful when chaining!`

`.empty`

Assert given value is empty. Strings, arrays, arguments with a length of 0, and objects without their own properties, are considered empty.

```
```javascript
[].should.be.empty;
''.should.be.empty;
({}).should.be.empty;
(function() {
 arguments.should.be.empty;
})();
```
```

`.keys([key1, key2, ...])` and `.keys(key1, key2, ...)` and `.key(key)`

Assert own object keys, which must match `_exactly_`, and will fail if you omit a key or two:

```
```javascript
var obj = { foo: 'bar', baz: 'raz' };
obj.should.have.keys('foo', 'baz');
obj.should.have.keys(['foo', 'baz']);
({}).should.have.keys();
({}).should.have.keys('key'); //fail AssertionError: expected {} to have key 'key'missing keys: 'key'
```
```

`.containEq(otherValue)`

Assert given value to contain something `*.eq*` to `otherValue`. See examples to understand better:

```
```javascript
'hello boy'.should.containEq('boy');
[1,2,3].should.containEq(3);
[[1],[2],[3]].should.containEq([3]);
[[1],[2],[3, 4]].should.not.containEq([3]);

({ b: 10 }).should.containEq({ b: 10 });
([1, 2, { a: 10 }]).should.containEq({ a: 10 });
```
```

```
[1, 2, 3].should.not.containEq({ a: 1 });
```

```
[{a: 'a'}, {b: 'b', c: 'c'}].should.containEq({a: 'a'});  
[{a: 'a'}, {b: 'b', c: 'c'}].should.not.containEq({b: 'b'});  
...
```

```
## .containDeep(otherValue)
```

Assert given value to contain something `*.eql*` to `otherValue` within depth.
Again see examples:

```
```javascript  
'hello boy'.should.containDeep('boy');
[1,2,3].should.containDeep([3]);
[1,2,3].should.containDeep([1, 3]);
//but not
[1,2,3].should.containDeep([3, 1]);
```

```
({ a: { b: 10 }, b: { c: 10, d: 11, a: { b: 10, c: 11 } } }).should
.containDeep({ a: { b: 10 }, b: { c: 10, a: { c: 11 } } });
```

```
[1, 2, 3, { a: { b: { d: 12 } } }].should.containDeep([{ a: { b: { d: 12 } } }]);
```

```
[[1],[2],[3]].should.containDeep([[3]]);
[[1],[2],[3, 4]].should.containDeep([[3]]);
[{a: 'a'}, {b: 'b', c: 'c'}].should.containDeep([{a: 'a'}]);
[{a: 'a'}, {b: 'b', c: 'c'}].should.containDeep([{b: 'b'}]);
...
```

It does not search somewhere in depth it check all pattern in depth. Objects are checked by properties key and value; arrays are checked like sub sequences. Everyting is compared using ``eql``. Main difference with ``containEql`` is that this assertion requires full type chain - if asserted value is an object, `otherValue` should be also an object (which is sub object of given). The same is true for arrays, `otherValue` should be an array which compared to be subsequence of given object.

```
.match(otherValue)
```

Assert given object matches ``otherValue``.

Given: String, `otherValue`: regexp. Uses ``RegExp#exec(str)``:

```
```javascript  
username.should.match(/^w+$/)  
...
```

Given: Array, `otherValue`: regexp - assert each value match to regexp.

```
```javascript  
['a', 'b', 'c'].should.match(/[a-z]/);
['a', 'b', 'c'].should.not.match(/[d-z]/);
```

...

Given: Object, otherValue: regexp - assert own property's values to match regexp.

```
```javascript
({ a: 'foo', c: 'barfoo' }).should.match(/foo$/);
({ a: 'a' }).should.not.match(/^http/);
```
```

Given: Anything, otherValue: function - assert if given value matched to function.

Function can use `.should`` inside or return 'true' or 'false', in all other cases it do nothing. If you return value that return assertion, you will receive better error messages.

```
```javascript
(5).should.match(function(n) { return n > 0; });
(5).should.not.match(function(n) { return n < 0; });
(5).should.not.match(function(it) { it.should.be.an.Array; });
(5).should.match(function(it) { return it.should.be.a.Number; });
```
```

Now compare messages:

```
```javascript
(5).should.not.match(function(it) { it.should.be.a.Number; });
//AssertionError: expected 5 not to match [Function]
(5).should.not.match(function(it) { return it.should.be.a.Number; });
//AssertionError: expected 5 not to match [Function]
// expected 5 to be a number
```
```

Given: object, otherValue: another object - assert that object properties match to properties of another object in meaning that describe above cases. See examples:

```
```javascript
({ a: 10, b: 'abc', c: { d: 10 }, d: 0 }).should
  .match({ a: 10, b: /c$/, c: function(it) { return it.should.have.property('d', 10); }});

[10, 'abc', { d: 10 }, 0].should
  .match({ '0': 10, '1': /c$/, '2': function(it) { return it.should.have.property('d', 10); }});

[10, 'abc', { d: 10 }, 0].should
  .match([10, /c$/, function(it) { return it.should.have.property('d', 10); }]);
```
```

## .matchEach(otherValue)

Assert given property keys and values each match given check object.

If `otherValue`` is RegExp, then each property value checked to match it:

```
```javascript
(['a', 'b', 'c']).should.matchEach(/[a-c]/);
```
```

If `otherValue`` is Function, then check each property value and key matched it:

```
```javascript
[10, 11, 12].should.matchEach(function(it) { return it >= 10; });
[10, 11, 12].should.matchEach(function(it) { return it >= 10; });
```
```

In other cases it checks that each property value is `.eql`` to `otherValue``:

```
```javascript
[10, 10].should.matchEach(10);
```
```

## `.throw()` and `throwError()`

Assert an exception is thrown:

```
```js
(function(){
  throw new Error('fail');
}).should.throw();
```
```

Assert an exception is not thrown:

```
```js
(function(){

}).should.not.throw();
```
```

Assert exception message matches string:

```
```js
(function(){
  throw new Error('fail');
}).should.throw('fail');
```
```

Assert exepection message matches regexp:

```
```js
(function(){
  throw new Error('failed to foo');
}).should.throw(/^fail/);
```
```

If you need to pass arguments and/or context to execute function use `Function#bind(context, arg1, ...)``:

```

```js
function isPositive(n) {
  if(n <= 0) throw new Error('Given number is not positive')
}

isPositive.bind(null, 10).should.not.throw();
isPositive.bind(null, -10).should.throw();
```

```

If you need to check something in an asynchronous function, you must do it in 2 steps:

```

```js
// first we need to check that function is called
var called = false;
collection.findOne({ _id: 10 }, function(err, res) {
  called = true;

  //second we test what you want
  res.should.be...
});

called.should.be.true;
```

```

In case you are using something like `Mocha`, you should use an asynchronous test, and call `done()` in the proper place to make sure that your asynchronous function is called before the test finishes.

```

```js
collection.findOne({ _id: 10 }, function(err, res) {
  if(err) return done(err);
  //second we test what you want
  res.should.be...

  done();
});
```

```

In general, if you need to check that something is executed, you are best using `spies`. A good example is [sinon](http://sinonjs.org/).

```

.status(code)

```

Asserts that `statusCode` is `code`:

```

```javascript
res.should.have.status(200);
```

```

Not included in browser build.

## .header(field[, value])

Asserts that a `.headers` object with `field` and optional `value` are present:

```
```javascript
res.should.have.header('content-length');
res.should.have.header('Content-Length', '123');
```
```

Not included in browser build.

## .json

Assert that Content-Type is "application/json; charset=utf-8"

```
```javascript
res.should.be.json
```
```

Not included in browser build.

## .html

Assert that Content-Type is "text/html; charset=utf-8"

```
```javascript
res.should.be.html
```
```

Not included in browser build.

## Optional Error description

As it can often be difficult to ascertain exactly where failed assertions are coming from in your tests, an optional description parameter can be passed to several should matchers. The description will follow the failed assertion in the error:

```
(1).should.eql(0, 'some useful description')
```

```
AssertionError: some useful description
 at Object.eql (/Users/swift/code/should.js/node_modules/should/lib/should.js:280:10)
 ...
```

The methods that support this optional description are: `eql`, `equal`, `within`, `instanceof`, `above`, `below`, `match`, `length`, `property`, `ownProperty`.

## Mocha example

For example you can use should with the [Mocha test framework](<http://visionmedia.github.io/mocha/>) by simply including it:

```
````javascript
var should = require('should');
var mylib = require('mylib');

describe('mylib', function() {
  it('should have a version with the format #.#.#', function() {
    lib.version.should.match(/^\d+\.\d+\.\d+$/);
  });
});
````
```

## ## Contributions

[Actual list of contributors](<https://github.com/visionmedia/should.js/graphs/contributors>) if you want to show it your friends.

To run the tests for `_should_` simply run:

```
$ make test
```

Before contribute something:

1. Your code should look like all the other code - this project should look like it was written by one man, always.
2. If you want propose something - just create an issue and describe your question with as much description as you can.
3. Please never send issues or pull requests about code style, jshint violations etc - I do not accept it (and you will spend your time for free).
4. If you think you have some general improvement, consider creating a pull request with it.
5. If you are not sure whether your improvement is general enough, just create your own plugin for `should.js`. (see `should.use` and `Assertion.add` usage).
6. If you add new code, it should be covered by tests. No tests - no code.
7. If you find bug (or at least you think it is a bug), create an issue with the library version and test case that I can run and see what are you talking about, or at least full steps by which I can reproduce it.

## ## OMG IT EXTENDS OBJECT????!?!@

Yes, yes it does, with a single getter `_should_`, and no it won't break your code, because it does this **\*\*properly\*\*** with a non-enumerable property.

## ## License

MIT



# 1.730 sigmund 1.0.1

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"author": "Peter Scott <pjscott@iastate.edu>",

"repository": {"type": "git", "url": "http://github.com/PeterScott/simplesets-nodejs.git"},

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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"
```

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socket.io

=====

#### Sockets for the rest of us

The `socket.io` client is basically a simple HTTP Socket interface implementation. It looks similar to WebSocket while providing additional features and leveraging other transports when WebSocket is not supported by the user's browser.

```
```js
var socket = io.connect('http://domain.com');
socket.on('connect', function () {
  // socket connected
});
socket.on('custom event', function () {
  // server emitted a custom event
});
socket.on('disconnect', function () {
  // socket disconnected
});
socket.send('hi there');
```
```

### Recipes

#### Utilizing namespaces (ie: multiple sockets)

If you want to namespace all the messages and events emitted to a particular endpoint, simply specify it as part of the `connect` uri:

```
```js
var chat = io.connect('http://localhost/chat');
chat.on('connect', function () {
  // chat socket connected
});

var news = io.connect('/news'); // io.connect auto-detects host
```

```
news.on('connect', function () {
  // news socket connected
});
...

```

Emitting custom events

To ease with the creation of applications, you can emit custom events outside of the global `message` event.

```
```js
var socket = io.connect();
socket.emit('server custom event', { my: 'data' });
...

```

#### #### Forcing disconnection

```
```js
var socket = io.connect();
socket.on('connect', function () {
  socket.disconnect();
});
...

```

Documentation

io#connect

```
```js
io.connect(uri, [options]);
...

```

##### ##### Options:

- *\*resource\**

socket.io

The resource is what allows the `socket.io` server to identify incoming connections by `socket.io` clients. In other words, any HTTP server can implement socket.io and still serve other normal, non-realtime HTTP requests.

- *\*transports\**

```
```js
['websocket', 'flashsocket', 'htmlfile', 'xhr-multipart', 'xhr-polling', 'jsonp-polling']
...

```

A list of the transports to attempt to utilize (in order of preference).

- `'connect timeout'`

```
```js
5000
```
```

The amount of milliseconds a transport has to create a connection before we consider it timed out.

- `'try multiple transports'`

```
```js
true
```
```

A boolean indicating if we should try other transports when the `connectTimeout` occurs.

- `'reconnect'`

```
```js
true
```
```

A boolean indicating if we should automatically reconnect if a connection is disconnected.

- `'reconnection delay'`

```
```js
500
```
```

The amount of milliseconds before we try to connect to the server again. We are using an exponential back off algorithm for the following reconnections, on each reconnect attempt this value will get multiplied (500 > 1000 > 2000 > 4000 > 8000).

- `'max reconnection attempts'`

```
```js
10
```
```

The amount of attempts should we make using the current transport to connect to the server? After this we will do one final attempt, and re-try with all enabled transport methods before we give up.

Properties:

- `'options'`

The passed in options combined with the defaults.

- **connected**

Whether the socket is connected or not.

- **connecting**

Whether the socket is connecting or not.

- **reconnecting**

Whether we are reconnecting or not.

- **transport**

The transport instance.

Methods:

- **connect(ÃÂ»)**

Establishes a connection. If ÃÂ» is supplied as argument, it will be called once the connection is established.

- **send(message)**

A string of data to send.

- **disconnect**

Closes the connection.

- **on(event, ÃÂ»)**

Adds a listener for the event **event**.

- **once(event, ÃÂ»)**

Adds a one time listener for the event **event**. The listener is removed after the first time the event is fired.

- **removeListener(event, ÃÂ»)**

Removes the listener ÃÂ» for the event **event**.

Events:

- **connect**

Fired when the connection is established and the handshake successful.

- `*connecting(transport_type)*`

Fired when a connection is attempted, passing the transport name.

- `*connect_failed*`

Fired when the connection timeout occurs after the last connection attempt. This only fires if the ``connectTimeout`` option is set. If the ``tryTransportsOnConnectTimeout`` option is set, this only fires once all possible transports have been tried.

- `*message(message)*`

Fired when a message arrives from the server

- `*close*`

Fired when the connection is closed. Be careful with using this event, as some transports will fire it even under temporary, expected disconnections (such as XHR-Polling).

- `*disconnect*`

Fired when the connection is considered disconnected.

- `*reconnect(transport_type,reconnectionAttempts)*`

Fired when the connection has been re-established. This only fires if the ``reconnect`` option is set.

- `*reconnecting(reconnectionDelay,reconnectionAttempts)*`

Fired when a reconnection is attempted, passing the next delay for the next reconnection.

- `*reconnect_failed*`

Fired when all reconnection attempts have failed and we were unsuccessful in reconnecting to the server.

Contributors

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1.746 sprintf-js 1.0.2

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1.747 sqlite3 3.0.4

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```

1.750 ssh2 0.3.6

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1.751 ssh2 0.2.25

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1.752 stack-trace 0.0.9

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1.755 statuses 1.2.1

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1.756 stream-counter 0.2.0

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1.757 streamsearch 0.1.2

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1.758 string_decoder 0.10.31

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1.759 stringstream 0.0.4

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1.760 strip-ansi 2.0.1

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strip-ansi [![Build Status](https://travis-ci.org/sindresorhus/strip-ansi.svg?branch=master)](https://travis-ci.org/sindresorhus/strip-ansi)

> Strip [ANSI escape codes](http://en.wikipedia.org/wiki/ANSI_escape_code)

```
## Install
```

```
```sh
$ npm install --save strip-ansi
```
```

```
## Usage
```

```
```js
var stripAnsi = require('strip-ansi');
```



```
stripAnsi("\u001b[4mcake\u001b[0m');
//=> 'cake'
...
```

```
CLI
```

```
``sh
$ npm install --global strip-ansi
...
```

```
``sh
$ strip-ansi --help
```

Usage

```
strip-ansi <input-file> > <output-file>
cat <input-file> | strip-ansi > <output-file>
```

Example

```
strip-ansi unicorn.txt > unicorn-stripped.txt
...
```

```
License
```

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## 1.761 superagent 0.17.0

### 1.761.1 Available under license :

```
SuperAgent
```

SuperAgent is a small progressive `__client-side__` HTTP request library, and `__Node.js__` module with the same API, sporting many high-level HTTP client features. View the [docs](<http://visionmedia.github.com/superagent/>).

![super agent](<http://f.cl.ly/items/3d282n3A0h0Z0K2w0q2a/Screenshot.png>)

```
Installation
```

```
node:
```

```
...
```

```
$ npm install superagent
...
```

```
component:
```

```

$ component install visionmedia/superagent

```

with script tags use `./superagent.js`

## ## Motivation

This library spawned from my frustration with jQuery's weak & inconsistent Ajax support. jQuery's API while having recently added some promise-like support, is largely static, forcing you to build up big objects containing all the header fields and options, not to mention most of the options are awkwardly named "type" instead of "method", etc. Onto examples!

The following is what you might typically do for a simple `__GET__` with jQuery:

```
```js
$.get('/user/1', function(data, textStatus, xhr){

});
***
```

great, it's ok, but it's kinda lame having 3 arguments just to access something on the ``xhr``. Our equivalent would be:

```
```js
request.get('/user/1', function(res){

});

```

the response object is an instance of ``request.Response``, encapsulating all of this information instead of throwing a bunch of arguments at you. For example we can check ``res.status``, ``res.header`` for header fields, ``res.text``, ``res.body`` etc.

An example of a JSON POST with jQuery typically might use `$.post()``, however once you need to start defining header fields you have to then re-write it using `$.ajax()`` ... so that might look like:

```
```js
$.ajax({
  url: '/api/pet',
  type: 'POST',
  data: { name: 'Manny', species: 'cat' },
  headers: { 'X-API-Key': 'foobar' }
}).success(function(res){

}).error(function(){

});
***
```

...

Not only is it ugly it's pretty opinionated, jQuery likes to special-case {4,5}xx, for example you cannot (easily at least) receive a parsed JSON response for say "400 Bad Request". This same request would look like this:

```
```js
request
 .post('/api/pet')
 .send({ name: 'Manny', species: 'cat' })
 .set('X-API-Key', 'foobar')
 .set('Accept', 'application/json')
 .end(function(error, res){

 });
```
```

building on the existing API internally we also provide something similar to `$.post()` for those times in life where your interactions are very basic:

```
```js
request.post('/api/pet', cat, function(error, res){

});
```
```

Running node tests

Install dependencies:

```
$ npm install
```

Run em!

```
$ make test
```

Running browser tests

Install the test server deps (nodejs / express):

```
$ npm install
```

Start the test server:

```
$ make test-server
```

Visit `localhost:4000/` in the browser.

Browser build

The browser build of superagent is located in ./superagent.js

Examples:

- [agency tests](https://github.com/visionmedia/superagent/blob/master/test/node/agency.js)
- [express demo app](https://github.com/hunterloftis/component-test/blob/master/lib/users/test/controller.test.js)

Plugins

Usage:

```
```js
var request = require('superagent'),
 no_cache = require('no-cache'),
 prefix = require('superagent-prefix')('/static');

prefix(request); // Prefixes *all* requests

request.get('/some-url')
 .use(no_cache) // Prevents caching of *only* this request
 .end(function(res) {
 // Do something
 });
```
```

Existing plugins:

- * [superagent-no-cache](https://github.com/johntron/superagent-no-cache) - prevents caching by including Cache-Control header
- * [superagent-prefix](https://github.com/johntron/superagent-prefix) - prefixes absolute URLs (useful in test environment)

Please prefix your plugin component with `superagent-*`

For superagent extensions such as couchdb and oauth visit the [wiki](https://github.com/visionmedia/superagent/wiki).

License

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1.762 supertest 0.9.2

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1.763 supports-color 1.3.1

1.763.1 Available under license :

```
# supports-color [![Build Status](https://travis-ci.org/sindresorhus/supports-color.svg?branch=master)](https://travis-ci.org/sindresorhus/supports-color)
```

> Detect whether a terminal supports color

```
## Install
```

```
---
```

```
$ npm install --save supports-color
```

```
---
```

```
## Usage
```

```
```js
```

```
var supportsColor = require('supports-color');
```

```
if (supportsColor) {
 console.log('Terminal supports color');
}

```

It obeys the `--color` and `--no-color` CLI flags.

For situations where using `--color` is not possible, add an environment variable `FORCE\_COLOR` with any value to force color. Trumps `--no-color`.

```
CLI
```

```

```

```
$ npm install --global supports-color
```

```

```

```

```

```
$ supports-color --help
```

```
Usage
```

```
 supports-color
```

```
Exits with code 0 if color is supported and 1 if not
```

```

```

```
License
```

```
MIT ÃÂ© [Sindre Sorhus](http://sindresorhus.com)
```

## 1.764 swagger-node-express 2.0.1

### 1.764.1 Available under license :

```
{
 "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"
}
```

## 1.765 syslog-ng 3.5.6 :1.e17

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Version 2, June 1991

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FAQ:

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Q: Is it possible to create derived works of syslog-ng under the GPL/LGPL licenses?

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Q: Do I need to sign a Contributory License Agreement in order for my contribution to be 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

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====

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## 1.767 syslog-ng\_MPLv1.1 3.5.6

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# 1.768 thenify 3.1.0

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```
thenify
```

```
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```

Promisify a callback-based function.

- Preserves function names
- Uses a native promise implementation if available and tries to fall back to `bluebird`
- Converts multiple arguments from the callback into an `Array`
- Resulting function never deoptimizes
- Supports both callback and promise style

An added benefit is that `throw` errors in that async function will be caught by the promise!

```
API
```

- Turn async functions into promises

```
```js
var thenify = require('thenify');

var somethingAsync = thenify(function somethingAsync(a, b, c, callback) {
  callback(null, a, b, c);
});
```
```

- Backward compatible with callback

```
```js
```

```

var thenify = require('thenify').withcallback;

var somethingAsync = thenify(function somethingAsync(a, b, c, callback) {
  callback(null, a, b, c);
});

// somethingAsync(a, b, c).then(onFulfilled).catch(onRejected);
// somethingAsync(a, b, c, function () {});
...

### var fn = thenify(fn)

```

Promisifies a function.

```

[gitter-image]: https://badges.gitter.im/thenables/thenify.png
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[github-tag]: http://img.shields.io/github/tag/thenables/thenify.svg?style=flat-square
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```

1.769 thenify-all 1.6.0

1.769.1 Available under license :

```

# thenify-all

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[![Build status][travis-image]][travis-url]
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[![Gittip][gittip-image]][gittip-url]

```

Promisifies all the selected functions in an object.

```
``js
var thenifyAll = require('thenify-all');

var fs = thenifyAll(require('fs'), { }, [
  'readFile',
  'writeFile',
]);

fs.readFile(__filename).then(function (buffer) {
  console.log(buffer.toString());
});
``
```

API

```
### var obj = thenifyAll(source, [obj], [methods])
```

Promisifies all the selected functions in an object.

- `source` - the source object for the async functions
- `obj` - the destination to set all the promisified methods
- `methods` - an array of method names of `source`

```
### var obj = thenifyAll.withCallback(source, [obj], [methods])
```

Promisifies all the selected functions in an object and backward compatible with callback.

- `source` - the source object for the async functions
- `obj` - the destination to set all the promisified methods
- `methods` - an array of method names of `source`

```
### thenifyAll.thenify
```

Exports [thenify](<https://github.com/thenables/thenify>) this package uses.

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[github-url]: <https://github.com/thenables/thenify-all/tags>

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1.770 through 2.3.7

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1.771 tinycolor 0.0.1

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1.776 transformers 2.1.0

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```
{
  "name": "transformers",
  "version": "2.1.0",
  "description": "String/Data transformations for use in templating libraries, static site generators and web frameworks",
  "main": "lib/transformers.js",
  "scripts": {
    "pretest": "node test/update-package && npm install",
    "test": "mocha test/test.js -R spec"
  },
  "repository": {
    "type": "git",
    "url": "https://github.com/ForbesLindesay/transformers.git"
  },
  "author": "ForbesLindesay",
  "license": "MIT",
  "readmeFilename": "README.md",
  "gitHead": "4b46e72cba3ad3403fd5ed3802d5472dcfa77311",
  "devDependencies": {
    "mocha": "~1.8",
    "expect.js": "~0.2",
    "swig": "*",
    "atpl": "*",
    "liquor": "*"
  }
}
```

```

"ejs": "*",
"eco": "*",
"jqtpl": "*",
"hamljs": "*",
"haml-coffee": "*",
"whiskers": "*",
"hogan.js": "*",
"handlebars": "*",
"underscore": "*",
"walrus": "*",
"mustache": "*",
"mote": "*",
"toffee": "*",
"just": "*",
"ect": "*",
"jade": "*",
"then-jade": "*",
"dust": "*",
"dustjs-linkedin": "*",
"jazz": "*",
"qejs": "*",
"less": "*",
"stylus": "*",
"sass": "*",
"marked": "*",
"supermarked": "*",
"markdown-js": "*",
"markdown": "*",
"coffee-script": "*",
"cson": "*",
"coffeekup": "*",
"coffeecup": "*",
"templated": "*",
"plates": "*",
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"component-builder": "*",
"html2jade": "*",
"highlight.js": "*"
},
"dependencies": {
  "promise": "~2.0",
  "css": "~1.0.8",
  "uglify-js": "~2.2.5"
}
}

```

1.777 traverse 0.3.9

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1.780 type-is 1.3.2

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type-is

```
[![NPM version](https://badge.fury.io/js/type-is.svg)](https://badge.fury.io/js/type-is)
[![Build Status](https://travis-ci.org/expressjs/type-is.svg?branch=master)](https://travis-ci.org/expressjs/type-is)
[![Coverage Status](https://img.shields.io/coveralls/expressjs/type-is.svg?branch=master)](https://coveralls.io/r/expressjs/type-is)
```

Infer the content-type of a request.

Install

```
```sh
$ npm install type-is
```
```

API

```
```js
var http = require('http')
var is = require('type-is')

http.createServer(function (req, res) {
 var istext = is(req, ['text/*'])
 res.end('you ' + (istext ? 'sent' : 'did not send') + ' me text')
})
```
```

type = is(request, types)

`request` is the node HTTP request. `types` is an array of types.

```
```js
// req.headers.content-type = 'application/json'

is(req, ['json']) // 'json'
is(req, ['html', 'json']) // 'json'
is(req, ['application/*']) // 'application/json'
is(req, ['application/json']) // 'application/json'

is(req, ['html']) // false
```
```

Each type can be:

- An extension name such as `json`. This name will be returned if matched.
- A mime type such as `application/json`.
- A mime type with a wildcard such as `*/json` or `application/*`. The full mime type will be returned if matched

- A suffix such as ``+json``. This can be combined with a wildcard such as ``*/vnd+json`` or ``application/*+json``. The full mime type will be returned if matched.

``false`` will be returned if no type matches.

Examples

Example body parser

```
```js
var is = require('type-is');
var parse = require('body');
var busboy = require('busboy');

function bodyParser(req, res, next) {
 if (!is.hasBody(req)) return next();

 switch (is(req, ['urlencoded', 'json', 'multipart'])) {
 case 'urlencoded':
 // parse urlencoded body
 break
 case 'json':
 // parse json body
 break
 case 'multipart':
 // parse multipart body
 break
 default:
 // 415 error code
 }
}
```
```

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1.781 type-is 1.6.0

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1.782 type-is 1.5.7

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1.783 type-is 1.6.2

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1.784 type-is 1.1.0

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```
# Type Is [![Build Status](https://travis-ci.org/expressjs/type-is.png)](https://travis-ci.org/expressjs/type-is)
```

Infer the content type of a request.

Extracted from `[koa](https://github.com/koajs/koa)` for general use.

Here's an example body parser:

```
```js
var is = require('type-is');
var parse = require('body');
var busboy = require('busboy');

function bodyParser(req, res, next) {
 var hasRequestBody = 'content-type' in req.headers
 || 'transfer-encoding' in req.headers;
 if (!hasRequestBody) return next();

 switch (is(req, ['urlencoded', 'json', 'multipart'])) {
 case 'urlencoded':
 // parse urlencoded body
 break
 case 'json':
 // parse json body
 break
 case 'multipart':
 // parse multipart body
 break
 default:
 // 415 error code
 }
}
```
```

API

var type = is(request, types)

```
```js
var is = require('type-is')

http.createServer(function (req, res) {
 is(req, ['text/*'])
})
```
```

`request` is the node HTTP request. `types` is an array of types. Each type can be:

- An extension name such as `json`. This name will be returned if matched.
- A mime type such as `application/json`.
- A mime type with a wildcard such as `*/json` or `application/*`. The full mime type will be returned if matched

`false` will be returned if no type matches.

Examples:

```
```js
// req.headers.content-type = 'application/json'
is(req, ['json']) // -> 'json'
is(req, ['html', 'json']) // -> 'json'
is(req, ['application/*']) // -> 'application/json'
is(req, ['application/json']) // -> 'application/json'
is(req, ['html']) // -> false
```
```

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1.785 type-is 1.6.1

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1.786 type-of-is 3.3.0

1.786.1 Available under license :

```
{
  "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"
}
}
```

1.787 type-of-is 3.2.0

1.787.1 Available under license :

```
{
  "name": "type-of-is",
  "version": "3.2.0",
  "description": "Determine and test types using constructor or {}.toString",
  "license": "MIT",
  "main": "index.js",

  "repository": {
    "type": "git",
    "url": "https://github.com/stephenhandley/type-of-is"
  },

  "bugs": {
    "url": "http://github.com/stephenhandley/type-of-is/issues"
  },

  "scripts": {
    "test": "node test/test.js"
  },

  "keywords": [
    "type",
    "types",
    "typeof",
    "toString",
    "type.of",

```

```

    "type.is"
  ],

  "directories" : {
    "lib" : ".",
    "test" : "test"
  },

  "engines" : {
    "node" : ">=0.10.5"
  },

  "devDependencies": {
    "asserts": "4.0.x"
  },

  "author": {
    "name": "Stephen Handley",
    "email": "stephen.handley@gmail.com",
    "url": "http://person.sh"
  }
}

```

1.788 uglify-js 2.2.5

1.788.1 Available under license :

UglifyJS 2

=====

UglifyJS is a JavaScript parser, minifier, compressor or beautifier toolkit.

This page documents the command line utility. For

[API and internals documentation see my website](<http://lisperator.net/uglifyjs/>).

There's also an

[in-browser online demo](<http://lisperator.net/uglifyjs/#demo>) (for Firefox,

Chrome and probably Safari).

Install

First make sure you have installed the latest version of [node.js](<http://nodejs.org/>)

(You may need to restart your computer after this step).

From NPM for use as a command line app:

```
npm install uglify-js -g
```

From NPM for programmatic use:

```
npm install uglify-js
```

From Git:

```
git clone git://github.com/mishoo/UglifyJS2.git
cd UglifyJS2
npm link .
```

Usage

```
uglifyjs [input files] [options]
```

UglifyJS2 can take multiple input files. It's recommended that you pass the input files first, then pass the options. UglifyJS will parse input files in sequence and apply any compression options. The files are parsed in the same global scope, that is, a reference from a file to some variable/function declared in another file will be matched properly.

If you want to read from STDIN instead, pass a single dash instead of input files.

The available options are:

```
--source-map    Specify an output file where to generate source map.
                  [string]
--source-map-root  The path to the original source to be included in the
                  source map. [string]
--source-map-url  The path to the source map to be added in //@
                  sourceMappingURL. Defaults to the value passed with
                  --source-map. [string]
--in-source-map  Input source map, useful if you're compressing JS that was
                  generated from some other original code.
-p, --prefix    Skip prefix for original filenames that appear in source
                  maps. For example -p 3 will drop 3 directories from file
                  names and ensure they are relative paths.
-o, --output    Output file (default STDOUT).
-b, --beautify  Beautify output/specify output options. [string]
-m, --mangle    Mangle names/pass mangler options. [string]
-r, --reserved  Reserved names to exclude from mangling.
-c, --compress  Enable compressor/pass compressor options. Pass options
                  like -c hoist_vars=false,if_return=false. Use -c with no
                  argument to use the default compression options. [string]
-d, --define    Global definitions [string]
--comments      Preserve copyright comments in the output. By default this
                  works like Google Closure, keeping JSDoc-style comments
```

that contain "@license" or "@preserve". You can optionally pass one of the following arguments to this flag:

- "all" to keep all comments
- a valid JS regexp (needs to start with a slash) to keep only comments that match.

Note that currently not **all** comments can be kept when compression is on, because of dead code removal or cascading statements into sequences. [string]

- stats Display operations run time on STDERR. [boolean]
- acorn Use Acorn for parsing. [boolean]
- spidermonkey Assume input files are SpiderMonkey AST format (as JSON). [boolean]
- self Build itself (UglifyJS2) as a library (implies --wrap=UglifyJS --export-all) [boolean]
- wrap Embed everything in a big function, making the `exports` and `global` variables available. You need to pass an argument to this option to specify the name that your module will take when included in, say, a browser. [string]
- export-all Only used when --wrap, this tells UglifyJS to add code to automatically export all globals. [boolean]
- lint Display some scope warnings [boolean]
- v, --verbose Verbose [boolean]
- V, --version Print version number and exit. [boolean]

Specify `--output` (`-o`)` to declare the output file. Otherwise the output goes to `STDOUT`.

Source map options

UglifyJS2 can generate a source map file, which is highly useful for debugging your compressed JavaScript. To get a source map, pass `--source-map output.js.map` (full path to the file where you want the source map dumped).`

Additionally you might need `--source-map-root` to pass the URL where the original files can be found. In case you are passing full paths to input files to UglifyJS, you can use --prefix` (`-p`) to specify the number of directories to drop from the path prefix when declaring files in the source map.`

For example:

```
uglifyjs /home/does/work/foo/src/js/file1.js \  
  /home/does/work/foo/src/js/file2.js \  
  -o foo.min.js \  
  --source-map foo.min.js.map \  
  --source-map-root http://foo.com/src \  
  --prefix /src
```

-p 5 -c -m

The above will compress and mangle `file1.js` and `file2.js`, will drop the output in `foo.min.js` and the source map in `foo.min.js.map`. The source mapping will refer to `http://foo.com/src/js/file1.js` and `http://foo.com/src/js/file2.js` (in fact it will list `http://foo.com/src` as the source map root, and the original files as `js/file1.js` and `js/file2.js`).

Composed source map

When you're compressing JS code that was output by a compiler such as CoffeeScript, mapping to the JS code won't be too helpful. Instead, you'd like to map back to the original code (i.e. CoffeeScript). UglifyJS has an option to take an input source map. Assuming you have a mapping from CoffeeScript â compiled JS, UglifyJS can generate a map from CoffeeScript â compressed JS by mapping every token in the compiled JS to its original location.

To use this feature you need to pass `--in-source-map /path/to/input/source.map`. Normally the input source map should also point to the file containing the generated JS, so if that's correct you can omit input files from the command line.

Mangler options

To enable the mangler you need to pass `--mangle` (`-m`). Optionally you can pass `-m sort=true` (we'll possibly have other flags in the future) in order to assign shorter names to most frequently used variables. This saves a few hundred bytes on jQuery before gzip, but the output is `_bigger_` after gzip (and seems to happen for other libraries I tried it on) therefore it's not enabled by default.

When mangling is enabled but you want to prevent certain names from being mangled, you can declare those names with `--reserved` (`-r`) â pass a comma-separated list of names. For example:

```
uglifyjs ... -m -r '$,require,exports'
```

to prevent the `require`, `exports` and `$` names from being changed.

Compressor options

You need to pass `--compress` (`-c`) to enable the compressor. Optionally you can pass a comma-separated list of options. Options are in the form `foo=bar`, or just `foo` (the latter implies a boolean option that you want to set `true`; it's effectively a shortcut for `foo=true`).

The defaults should be tuned for maximum compression on most code. Here are the available options (all are `true` by default, except `hoist_vars`):

- `sequences` -- join consecutive simple statements using the comma operator
- `properties` -- rewrite property access using the dot notation, for example `foo["bar"]` â `foo.bar`
- `dead_code` -- remove unreachable code
- `drop_debugger` -- remove `debugger;` statements
- `unsafe` -- apply "unsafe" transformations (discussion below)
- `conditionals` -- apply optimizations for `if`-s and conditional expressions
- `comparisons` -- apply certain optimizations to binary nodes, for example: `!(a <= b) â `a > b` (only when `unsafe`), attempts to negate binary nodes, e.g. `a = !b && !c && !d && !e â `a =!(b||c||d||e)` etc.
- `evaluate` -- attempt to evaluate constant expressions
- `booleans` -- various optimizations for boolean context, for example `!!a ? b : c` â `a ? b : c`
- `loops` -- optimizations for `do`, `while` and `for` loops when we can statically determine the condition
- `unused` -- drop unreferenced functions and variables
- `hoist_funs` -- hoist function declarations
- `hoist_vars` -- hoist `var` declarations (this is `false` by default because it seems to increase the size of the output in general)
- `if_return` -- optimizations for if/return and if/continue
- `join_vars` -- join consecutive `var` statements
- `cascade` -- small optimization for sequences, transform `x, x` into `x` and `x = something(), x` into `x = something()`
- `warnings` -- display warnings when dropping unreachable code or unused declarations etc.

Conditional compilation

You can use the `--define` (`-d`) switch in order to declare global variables that UglifyJS will assume to be constants (unless defined in scope). For example if you pass `--define DEBUG=false` then, coupled with dead code removal UglifyJS will discard the following from the output:

```
if (DEBUG) {
  console.log("debug stuff");
}
```

UglifyJS will warn about the condition being always false and about dropping unreachable code; for now there is no option to turn off only this specific warning, you can pass `warnings=false` to turn off *all* warnings.

Another way of doing that is to declare your globals as constants in a separate file and include it into the build. For example you can have a `build/defines.js` file with the following:

```
const DEBUG = false;
const PRODUCTION = true;
// etc.
```

and build your code like this:

```
uglifyjs build/defines.js js/foo.js js/bar.js... -c
```

UglifyJS will notice the constants and, since they cannot be altered, it will evaluate references to them to the value itself and drop unreachable code as usual. The possible downside of this approach is that the build will contain the `const` declarations.

```
<a name="codegen-options"></a>
## Beautifier options
```

The code generator tries to output shortest code possible by default. In case you want beautified output, pass `--beautify` (`-b`). Optionally you can pass additional arguments that control the code output:

- `beautify` (default `true`) -- whether to actually beautify the output. Passing `-b` will set this to true, but you might need to pass `-b` even when you want to generate minified code, in order to specify additional arguments, so you can use `-b beautify=false` to override it.
- `indent-level` (default 4)
- `indent-start` (default 0) -- prefix all lines by that many spaces
- `quote-keys` (default `false`) -- pass `true` to quote all keys in literal objects
- `space-colon` (default `true`) -- insert a space after the colon signs
- `ascii-only` (default `false`) -- escape Unicode characters in strings and regexps
- `inline-script` (default `false`) -- escape the slash in occurrences of `</script` in strings
- `width` (default 80) -- only takes effect when beautification is on, this specifies an (orientative) line width that the beautifier will try to obey. It refers to the width of the line text (excluding indentation). It doesn't work very well currently, but it does make the code generated by UglifyJS more readable.
- `max-line-len` (default 32000) -- maximum line length (for uglified code)
- `ie-proof` (default `true`) -- generate `!IE-proof` code (for now this means add brackets around the `do/while` in code like this: `if (foo) do something(); while (bar); else ...`).
- `bracketize` (default `false`) -- always insert brackets in `if`, `for`, `do`, `while` or `with` statements, even if their body is a single statement.
- `semicolons` (default `true`) -- separate statements with semicolons. If you pass `false` then whenever possible we will use a newline instead of a

semicolon, leading to more readable output of uglified code (size before gzip could be smaller; size after gzip insignificantly larger).

Keeping copyright notices or other comments

You can pass `--comments`` to retain certain comments in the output. By default it will keep JSDoc-style comments that contain `"@preserve"`, `"@license"` or `"@cc_on"` (conditional compilation for IE). You can pass `--comments all`` to keep all the comments, or a valid JavaScript regexp to keep only comments that match this regexp. For example `--comments /foo|bar/`` will keep only comments that contain "foo" or "bar".

Note, however, that there might be situations where comments are lost. For example:

```
function f() {
  /** @preserve Foo Bar */
  function g() {
    // this function is never called
  }
  return something();
}
```

Even though it has `"@preserve"`, the comment will be lost because the inner function `g`` (which is the AST node to which the comment is attached to) is discarded by the compressor as not referenced.

The safest comments where to place copyright information (or other info that needs to be kept in the output) are comments attached to toplevel nodes.

Support for the SpiderMonkey AST

UglifyJS2 has its own abstract syntax tree format; for [practical reasons](<http://lisperator.net/blog/uglifyjs-why-not-switching-to-spidermonkey-ast/>) we can't easily change to using the SpiderMonkey AST internally. However, UglifyJS now has a converter which can import a SpiderMonkey AST.

For example [Acorn][acorn] is a super-fast parser that produces a SpiderMonkey AST. It has a small CLI utility that parses one file and dumps the AST in JSON on the standard output. To use UglifyJS to mangle and compress that:

```
acorn file.js | uglifyjs --spidermonkey -m -c
```

The `--spidermonkey`` option tells UglifyJS that all input files are not JavaScript, but JS code described in SpiderMonkey AST in JSON. Therefore we don't use our own parser in this case, but just transform that AST into our internal AST.

Use Acorn for parsing

More for fun, I added the `--acorn` option which will use Acorn to do all the parsing. If you pass this option, UglifyJS will require("acorn")`.`

Acorn is really fast (e.g. 250ms instead of 380ms on some 650K code), but converting the SpiderMonkey tree that Acorn produces takes another 150ms so in total it's a bit more than just using UglifyJS's own parser.

API Reference

Assuming installation via NPM, you can load UglifyJS in your application like this:

```
var UglifyJS = require("uglify-js");
```

It exports a lot of names, but I'll discuss here the basics that are needed for parsing, mangling and compressing a piece of code. The sequence is (1) parse, (2) compress, (3) mangle, (4) generate output code.

The simple way

There's a single toplevel function which combines all the steps. If you don't need additional customization, you might want to go with `minify`.`

Example:

```
var result = UglifyJS.minify("/path/to/file.js");
console.log(result.code); // minified output
// if you need to pass code instead of file name
var result = UglifyJS.minify("var b = function () {};", {fromString: true});
```

You can also compress multiple files:

```
var result = UglifyJS.minify(["file1.js", "file2.js", "file3.js" ]);
console.log(result.code);
```

To generate a source map:

```
var result = UglifyJS.minify(["file1.js", "file2.js", "file3.js" ], {
  outSourceMap: "out.js.map"
});
console.log(result.code); // minified output
console.log(result.map);
```

Note that the source map is not saved in a file, it's just returned in `result.map`.` The value passed for `outSourceMap` is only used to set the`

`file` attribute in the source map (see [the spec][sm-spec]).

You can also specify `sourceRoot` property to be included in source map:

```
var result = UglifyJS.minify([ "file1.js", "file2.js", "file3.js" ], {
  outSourceMap: "out.js.map",
  sourceRoot: "http://example.com/src"
});
```

If you're compressing compiled JavaScript and have a source map for it, you can use the `inSourceMap` argument:

```
var result = UglifyJS.minify("compiled.js", {
  inSourceMap: "compiled.js.map",
  outSourceMap: "minified.js.map"
});
// same as before, it returns `code` and `map`
```

The `inSourceMap` is only used if you also request `outSourceMap` (it makes no sense otherwise).

Other options:

- `warnings` (default `false`) â pass `true` to display compressor warnings.
- `fromString` (default `false`) â if you pass `true` then you can pass JavaScript source code, rather than file names.
- `mangle` â pass `false` to skip mangling names.
- `output` (default `null`) â pass an object if you wish to specify additional [output options][codegen]. The defaults are optimized for best compression.
- `compress` (default `{}`) â pass `false` to skip compressing entirely. Pass an object to specify custom [compressor options][compressor].

We could add more options to `UglifyJS.minify` â if you need additional functionality please suggest!

The hard way

Following there's more detailed API info, in case the `minify` function is too simple for your needs.

The parser

```
var toplevel_ast = UglifyJS.parse(code, options);
```

`options` is optional and if present it must be an object. The following properties are available:

- `strict` â disable automatic semicolon insertion and support for trailing comma in arrays and objects
- `filename` â the name of the file where this code is coming from
- `toplevel` â a `toplevel` node (as returned by a previous invocation of `parse`)

The last two options are useful when you'd like to minify multiple files and get a single file as the output and a proper source map. Our CLI tool does something like this:

```
var toplevel = null;
files.forEach(function(file){
  var code = fs.readFileSync(file);
  toplevel = UglifyJS.parse(code, {
    filename: file,
    toplevel: toplevel
  });
});
```

After this, we have in `toplevel` a big AST containing all our files, with each token having proper information about where it came from.

Scope information

UglifyJS contains a scope analyzer that you need to call manually before compressing or mangling. Basically it augments various nodes in the AST with information about where is a name defined, how many times is a name referenced, if it is a global or not, if a function is using `eval` or the `with` statement etc. I will discuss this some place else, for now what's important to know is that you need to call the following before doing anything with the tree:

```
toplevel.figure_out_scope()
```

Compression

Like this:

```
var compressor = UglifyJS.Compressor(options);
var compressed_ast = toplevel.transform(compressor);
```

The `options` can be missing. Available options are discussed above in [âCompressor optionsâ](#). Defaults should lead to best compression in most

scripts.

The compressor is destructive, so don't rely that ``toplevel`` remains the original tree.

Mangling

After compression it is a good idea to call again ``figure_out_scope`` (since the compressor might drop unused variables / unreachable code and this might change the number of identifiers or their position). Optionally, you can call a trick that helps after Gzip (counting character frequency in non-mangleable words). Example:

```
compressed_ast.figure_out_scope();
compressed_ast.compute_char_frequency();
compressed_ast.mangle_names();
```

Generating output

AST nodes have a ``print`` method that takes an output stream. Essentially, to generate code you do this:

```
var stream = UglifyJS.OutputStream(options);
compressed_ast.print(stream);
var code = stream.toString(); // this is your minified code
```

or, for a shortcut you can do:

```
var code = compressed_ast.print_to_string(options);
```

As usual, ``options`` is optional. The output stream accepts a lot of options, most of them documented above in section `âBeautifier optionsâ`. The two which we care about here are ``source_map`` and ``comments``.

Keeping comments in the output

In order to keep certain comments in the output you need to pass the ``comments`` option. Pass a `RegExp` or a function. If you pass a `RegExp`, only those comments whose body matches the `regexp` will be kept. Note that `body` means without the initial ``/^`` or ``/*``. If you pass a function, it will be called for every comment in the tree and will receive two arguments: the node that the comment is attached to, and the comment token itself.

The comment token has these properties:

- ``type``: "comment1" for single-line comments or "comment2" for multi-line comments
- ``value``: the comment body

- ``pos`` and ``endpos``: the start/end positions (zero-based indexes) in the original code where this comment appears
- ``line`` and ``col``: the line and column where this comment appears in the original code
- ``file`` â the file name of the original file
- ``nlb`` â true if there was a newline before this comment in the original code, or if this comment contains a newline.

Your function should return ``true`` to keep the comment, or a falsy value otherwise.

Generating a source mapping

You need to pass the ``source_map`` argument when calling ``print``. It needs to be a ``SourceMap`` object (which is a thin wrapper on top of the [source-map][source-map] library).

Example:

```
var source_map = UglifyJS.SourceMap(source_map_options);
var stream = UglifyJS.OutputStream({
  ...
  source_map: source_map
});
compressed_ast.print(stream);

var code = stream.toString();
var map = source_map.toString(); // json output for your source map
```

The ``source_map_options`` (optional) can contain the following properties:

- ``file``: the name of the JavaScript output file that this mapping refers to
- ``root``: the ``sourceRoot`` property (see the [spec][sm-spec])
- ``orig``: the "original source map", handy when you compress generated JS and want to map the minified output back to the original code where it came from. It can be simply a string in JSON, or a JSON object containing the original source map.

[acorn]: <https://github.com/marijnh/acorn>

[source-map]: <https://github.com/mozilla/source-map>

[sm-spec]: https://docs.google.com/document/d/1U1RGAehQwRypUTovF1KRlpiOFze0b-_2gc6fAH0KY0k/edit

[codegen]: <http://lisperator.net/uglifyjs/codegen>

[compressor]: <http://lisperator.net/uglifyjs/compress>

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1.793 uglify-js 1.2.5

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*

* Credits: Ideas included from incomplete JS implementation of Olson

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* parser, "XMLDate" by Philippe Goetz (philippe.goetz@wanadoo.fr)

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1.806 underscore.string 2.4.0

1.806.1 Available under license :

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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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    "gulp-rename": "~1.2.0"
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1.807 underscore.string 2.3.3

1.807.1 Available under license :

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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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  },  
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  },  
  "repository": {  
    "type": "git",  
    "url": "https://github.com/epeli/underscore.string.git"  
  },  
  "bugs": {  
    "url": "https://github.com/epeli/underscore.string/issues"  
  },  
  "licenses": [  
    {  
      "type": "MIT"  
    }  
  ]  
}
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1.808 url 0.10.2

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1.809 util 0.10.3

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1.810 utile 0.2.1

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1.811 utils-merge 1.0.0

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1.813 validator 3.22.1

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1.814 validator 3.26.0

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1.818 vhost 1.0.0

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Virtual Host

Previously `connect.vhost()`.

Usage:

```
```js
var connect = require('connect');
var vhost = require('vhost');

var app = connect();

app.use(vhost('mail.example.com', function(req, res){}));
app.use(vhost('*example.com', connect()));
app.use(connect());
```
```

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1.819 void-elements 1.0.0

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1.823 winston 0.8.3

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1.828 wordwrap 0.0.2

1.828.1 Available under license :

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  "description" : "Wrap those words. Show them at what columns to start and stop.",
  "version" : "0.0.2",
  "repository" : {
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    "url" : "git://github.com/substack/node-wordwrap.git"
  },
  "main" : "./index.js",
  "keywords" : [
    "word",
    "wrap",
    "rule",
    "format",
    "column"
  ],
}
```

```

"directories" : {
  "lib" : ".",
  "example" : "example",
  "test" : "test"
},
"scripts" : {
  "test" : "expresso"
},
"devDependencies" : {
  "expresso" : "=0.7.x"
},
"engines" : {
  "node" : ">=0.4.0"
},
"license" : "MIT/X11",
"author" : {
  "name" : "James Halliday",
  "email" : "mail@substack.net",
  "url" : "http://substack.net"
}
}

```

1.829 wordwrap 0.0.3

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1.830 wrappy 1.0.1

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1.831 ws 0.4.32

1.831.1 Available under license :

[![Build Status](https://secure.travis-ci.org/einaros/ws.png)](http://travis-ci.org/einaros/ws)

ws: a node.js websocket library

`ws` is a simple to use websocket implementation, up-to-date against RFC-6455, and [probably the fastest WebSocket library for node.js](http://web.archive.org/web/20130314230536/http://hobbycoding.posterous.com/the-fastest-websocket-module-for-nodejs).

Passes the quite extensive Autobahn test suite. See <http://einaros.github.com/ws> for the full reports.

Comes with a command line utility, `wscat`, which can either act as a server (--listen), or client (--connect); Use it to debug simple websocket services.

Protocol support

* **Hixie draft 76** (Old and deprecated, but still in use by Safari and Opera. Added to ws version 0.4.2, but server only. Can be disabled by setting the `disableHixie` option to true.)

* **HyBi drafts 07-12** (Use the option `protocolVersion: 8`, or argument `-p 8` for wscat)

* **HyBi drafts 13-17** (Current default, alternatively option `protocolVersion: 13`, or argument `-p 13` for wscat)

See the echo.websocket.org example below for how to use the `protocolVersion` option.

Usage

```
### Installing ###
```

```
`npm install ws`
```

```
### Sending and receiving text data ###
```

```
```js
var WebSocket = require('ws');
var ws = new WebSocket('ws://www.host.com/path');
ws.on('open', function() {
 ws.send('something');
});
ws.on('message', function(data, flags) {
 // flags.binary will be set if a binary data is received
 // flags.masked will be set if the data was masked
});
```
```

```
### Sending binary data ###
```

```
```js
var WebSocket = require('ws');
var ws = new WebSocket('ws://www.host.com/path');
ws.on('open', function() {
 var array = new Float32Array(5);
 for (var i = 0; i < array.length; ++i) array[i] = i / 2;
 ws.send(array, { binary: true, mask: true });
});
```
```

Setting ``mask``, as done for the send options above, will cause the data to be masked according to the websocket protocol. The same option applies for text data.

```
### Server example ###
```

```
```js
var WebSocketServer = require('ws').Server
, wss = new WebSocketServer({port: 8080});
wss.on('connection', function(ws) {
 ws.on('message', function(message) {
 console.log('received: %s', message);
 });
 ws.send('something');
});
```
```

```
### Server sending broadcast data ###
```

```

```js
var WebSocketServer = require('ws').Server
 , wss = new WebSocketServer({port: 8080});

wss.broadcast = function(data) {
 for(var i in this.clients)
 this.clients[i].send(data);
};
```

### Error handling best practices ###

```js
// If the WebSocket is closed before the following send is attempted
ws.send('something');

// Errors (both immediate and async write errors) can be detected in an optional callback.
// The callback is also the only way of being notified that data has actually been sent.
ws.send('something', function(error) {
 // if error is null, the send has been completed,
 // otherwise the error object will indicate what failed.
});

// Immediate errors can also be handled with try/catch-blocks, but **note**
// that since sends are inherently asynchronous, socket write failures will *not*
// be captured when this technique is used.
try {
 ws.send('something');
}
catch (e) {
 // handle error
}
```

### echo.websocket.org demo ###

```js
var WebSocket = require('ws');
var ws = new WebSocket('ws://echo.websocket.org/', {protocolVersion: 8, origin: 'http://websocket.org'});
ws.on('open', function() {
 console.log('connected');
 ws.send(Date.now().toString(), {mask: true});
});
ws.on('close', function() {
 console.log('disconnected');
});
ws.on('message', function(data, flags) {
 console.log('Roundtrip time: ' + (Date.now() - parseInt(data)) + 'ms', flags);
});
```

```



```
setTimeout(function() {
  ws.send(Date.now().toString(), {mask: true});
}, 500);
});
...

```

wscat against echo.websocket.org

```
$ npm install -g ws
$ wscat -c ws://echo.websocket.org
connected (press CTRL+C to quit)
> hi there
< hi there
> are you a happy parrot?
< are you a happy parrot?

```

Other examples

For a full example with a browser client communicating with a ws server, see the examples folder.

Note that the usage together with Express 3.0 is quite different from Express 2.x. The difference is expressed in the two different serverstats-examples.

Otherwise, see the test cases.

Running the tests

```
`make test`

```

API Docs

See the doc/ directory for Node.js-like docs for the ws classes.

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1.832 wxGTK 2.8.12 :8.e17

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object

code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- 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.

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

```
<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>
```

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

```
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library `Frob' (a library for tweaking knobs) written by James Random Hacker.
```

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

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[This is the first released version of the library GPL. It is
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code. If you link a program with the library, you must provide
complete object files to the recipients so that they can relink them
with the library, after making changes to the library and recompiling
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Our method of protecting your rights has two steps: (1) copyright

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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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.
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License.

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```
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```
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```

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

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/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.3, July 18th, 2005

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Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu

The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://www.ietf.org/rfc/rfc1950.txt> (zlib format), [rfc1951.txt](http://www.ietf.org/rfc/rfc1951.txt) (deflate format) and [rfc1952.txt](http://www.ietf.org/rfc/rfc1952.txt) (gzip format).

*/

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1.833 xml2js 0.4.2

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1.836 xml2js 0.4.4

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1.837 xmlbuilder 2.4.5

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1.838 xmlbuilder 2.6.1

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1.839 xmlbuilder 2.1.0

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1.840 xmlhttprequest 1.4.2

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1.841 xtend 4.0.0

1.841.1 Available under license :

```
{
  "name": "xtend",
  "version": "4.0.0",
  "description": "extend like a boss",
  "keywords": [
    "extend",
    "merge",
    "options",
    "opts",
    "object",
```

```

    "array"
  ],
  "author": "Raynos <raynos2@gmail.com>",
  "repository": "git://github.com/Raynos/xtend.git",
  "main": "immutable",
  "scripts": {
    "test": "node test"
  },
  "dependencies": {},
  "devDependencies": {
    "tape": "~1.1.0"
  },
  "homepage": "https://github.com/Raynos/xtend",
  "contributors": [
    {
      "name": "Jake Verbaten"
    },
    {
      "name": "Matt Esch"
    }
  ],
  "bugs": {
    "url": "https://github.com/Raynos/xtend/issues",
    "email": "raynos2@gmail.com"
  },
  "licenses": [
    {
      "type": "MIT",
      "url": "http://github.com/raynos/xtend/raw/master/LICENSE"
    }
  ],
  "testling": {
    "files": "test.js",
    "browsers": [
      "ie/7..latest",
      "firefox/16..latest",
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      "chrome/canary",
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      "opera/next",
      "safari/5.1..latest",
      "ipad/6.0..latest",
      "iphone/6.0..latest"
    ]
  },
  "engines": {
    "node": ">=0.4"
  }
}

```



```
}  
}
```

1.842 yaml 0.2.3

1.842.1 Available under license :

YAML

CommonJS JavaScript YAML parser, fast and tiny. Although this implementation does not currently support the entire YAML specification, feel free to fork the project and submit a patch :)

Usage

```
require('yaml').eval(string_of_yaml)
```

Currently Supports

- * Comments
- * Sequences (arrays)
- * Maps (hashes)
- * Inline sequences
- * Inline maps
- * Nesting
- * Primitive scalars (integers, floats, booleans, etc)
- * Extended bools (enabled, disabled, yes, no, on, off, true, false)

Installation

```
$ npm install yaml
```

Testing

Update git submodules and run:

```
$ make test
```

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1.843 yargs 3.5.4

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1.844 zeparser 0.0.5

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1.850 zookeeper_EPLv1.0 3.4.6 :1

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1.851 zookeeper_LGPLv2.1 3.4.6 :1

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