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## Contents

### **1.1 libdnet 1.11**

1.1.1 Available under license

### **1.2 lua 5.1.5**

1.2.1 Available under license

### **1.3 concat-map 0.0.1**

1.3.1 Available under license

### **1.4 minimist 0.0.8**

1.4.1 Available under license

### **1.5 mkdirp 0.5.1**

1.5.1 Available under license

### **1.6 underscore 1.8.3**

1.6.1 Available under license

### **1.7 has-ansi 2.0.0**

1.7.1 Available under license

### **1.8 supports-color 2.0.0**

1.8.1 Available under license

### **1.9 unicodecsv 0.14.1**

1.9.1 Available under license

### **1.10 buffer-xor 1.0.3**

1.10.1 Available under license

### **1.11 backbone 1.2.3**

1.11.1 Available under license

### **1.12 syslinux 6.03**

1.12.1 Available under license

### **1.13 browserify-rsa 4.0.1**

1.13.1 Available under license

## **1.14 python-backports-ssl-match-hostname 3.5.0.1**

1.14.1 Available under license

## **1.15 fastclick 1.0.6**

1.15.1 Available under license

## **1.16 backbone 1.3.3**

1.16.1 Available under license

## **1.17 backbone-computedfields 0.0.12**

1.17.1 Available under license

## **1.18 backgrid-filter 0.3.7**

1.18.1 Available under license

## **1.19 inflight 1.0.6**

1.19.1 Available under license

## **1.20 once 1.4.0**

1.20.1 Available under license

## **1.21 wrappy 1.0.2**

1.21.1 Available under license

## **1.22 cookies 2.2.1**

1.22.1 Available under license

## **1.23 django-bulk-update 1.1.10**

1.23.1 Available under license

## **1.24 brorand 1.1.0**

1.24.1 Available under license

## **1.25 browserify-sign 4.0.4**

1.25.1 Available under license

## **1.26 jsesc 0.5.0**

1.26.1 Available under license

## **1.27 json5 0.5.1**

1.27.1 Available under license

## **1.28 xmldict 0.11.0**

1.28.1 Available under license

## **1.29 appdirs 1.4.3**

1.29.1 Available under license

## **1.30 strict-rfc3339 0.7**

1.30.1 Available under license

## **1.31 regenerator-runtime 0.10.5**

1.31.1 Available under license

## **1.32 file-saver 1.3.3**

1.32.1 Available under license

## **1.33 liblogging 1.0.6**

- 1.33.1 Available under license
- 1.34 backbone-paginator 2.0.6**
  - 1.34.1 Available under license
- 1.35 backgrid-paginator 0.3.9**
  - 1.35.1 Available under license
- 1.36 util-deprecate 1.0.2**
  - 1.36.1 Available under license
- 1.37 ansi-regex 2.1.1**
  - 1.37.1 Available under license
- 1.38 ansi-styles 2.2.1**
  - 1.38.1 Available under license
- 1.39 anymatch 1.3.2**
  - 1.39.1 Available under license
- 1.40 arr-diff 2.0.0**
  - 1.40.1 Available under license
- 1.41 arr-flatten 1.1.0**
  - 1.41.1 Available under license
- 1.42 array-unique 0.2.1**
  - 1.42.1 Available under license
- 1.43 async-each 1.0.1**
  - 1.43.1 Available under license
- 1.44 babel-polyfill 6.26.0**
  - 1.44.1 Available under license
- 1.45 babel-runtime 6.26.0**
- 1.46 balanced-match 1.0.0**
  - 1.46.1 Available under license
- 1.47 strip-ansi 3.0.1**
  - 1.47.1 Available under license
- 1.48 brace 1.8.5**
  - 1.48.1 Available under license
- 1.49 chalk 1.1.3**
  - 1.49.1 Available under license
- 1.50 chokidar 1.7.0**
  - 1.50.1 Available under license
- 1.51 source-map-support 0.4.18**
  - 1.51.1 Available under license
- 1.52 set-immediate-shim 1.0.1**
- 1.53 safe-buffer 5.1.1**
  - 1.53.1 Available under license

- 1.54 repeat-string 1.6.1**
  - 1.54.1 Available under license
- 1.55 repeat-element 1.1.2**
  - 1.55.1 Available under license
- 1.56 regex-cache 0.4.4**
  - 1.56.1 Available under license
- 1.57 core-util-is 1.0.2**
  - 1.57.1 Available under license
- 1.58 readdirp 2.1.0**
  - 1.58.1 Available under license
- 1.59 randomatic 1.1.7**
  - 1.59.1 Available under license
- 1.60 punycode 1.4.1**
  - 1.60.1 Available under license
- 1.61 preserve 0.2.0**
  - 1.61.1 Available under license
- 1.62 debug 2.6.9**
  - 1.62.1 Available under license
- 1.63 escape-string-regexp 1.0.5**
  - 1.63.1 Available under license
- 1.64 path-is-absolute 1.0.1**
  - 1.64.1 Available under license
- 1.65 expand-brackets 0.1.5**
  - 1.65.1 Available under license
- 1.66 expand-range 1.8.2**
  - 1.66.1 Available under license
- 1.67 extglob 0.3.2**
  - 1.67.1 Available under license
- 1.68 parse-glob 3.0.4**
  - 1.68.1 Available under license
- 1.69 normalize-path 2.1.1**
  - 1.69.1 Available under license
- 1.70 ms 2.0.0**
  - 1.70.1 Available under license
- 1.71 minimatch 3.0.4**
  - 1.71.1 Available under license
- 1.72 micromatch 2.3.11**
  - 1.72.1 Available under license
- 1.73 is-posix-bracket 0.1.1**

- 1.73.1 Available under license
- 1.74 is-number 2.1.0**
  - 1.74.1 Available under license
- 1.75 is-extendable 0.1.1**
  - 1.75.1 Available under license
- 1.76 is-equal-shallow 0.1.3**
  - 1.76.1 Available under license
- 1.77 is-dotfile 1.0.3**
  - 1.77.1 Available under license
- 1.78 is-binary-path 1.0.1**
  - 1.78.1 Available under license
- 1.79 inherits 2.0.3**
  - 1.79.1 Available under license
- 1.80 graceful-fs 4.1.11**
  - 1.80.1 Available under license
- 1.81 glob-parent 2.0.0**
  - 1.81.1 Available under license
- 1.82 glob-base 0.3.0**
  - 1.82.1 Available under license
- 1.83 for-own 0.1.5**
  - 1.83.1 Available under license
- 1.84 for-in 1.0.2**
  - 1.84.1 Available under license
- 1.85 fill-range 2.2.3**
  - 1.85.1 Available under license
- 1.86 filename-regex 2.0.1**
  - 1.86.1 Available under license
- 1.87 dcron 4.5**
- 1.88 webcolors 1.7**
  - 1.88.1 Available under license
- 1.89 ifupdown 0.8.16**
  - 1.89.1 Available under license
- 1.90 babel 6.18.0**
  - 1.90.1 Available under license
- 1.91 babel-code-frame 6.26.0**
- 1.92 esutils 2.0.2**
  - 1.92.1 Available under license
- 1.93 glob 7.1.2**
  - 1.93.1 Available under license

## **1.94 globals 9.18.0**

1.94.1 Available under license

## **1.95 is-finite 1.0.2**

1.95.1 Available under license

## **1.96 js-tokens 3.0.2**

1.96.1 Available under license

## **1.97 loose-envify 1.3.1**

1.97.1 Available under license

## **1.98 number-is-nan 1.0.1**

1.98.1 Available under license

## **1.99 os-homedir 1.0.2**

1.99.1 Available under license

## **1.100 os-tmpdir 1.0.2**

1.100.1 Available under license

## **1.101 slash 1.0.0**

## **1.102 babel-helper-call-delegate 6.24.1**

## **1.103 babel-helper-define-map 6.26.0**

## **1.104 babel-helper-function-name 6.24.1**

## **1.105 babel-helper-get-function-arity 6.24.1**

## **1.106 babel-helper-hoist-variables 6.24.1**

## **1.107 babel-helper-optimise-call-expression 6.24.1**

## **1.108 babel-helper-replace-supers 6.24.1**

## **1.109 babel-helpers 6.24.1**

## **1.110 babel-messages 6.23.0**

## **1.111 babel-plugin-check-es2015-constants 6.22.0**

## **1.112 babel-plugin-transform-es2015-arrow-functions 6.22.0**

## **1.113 babel-plugin-transform-es2015-block-scoped-functions 6.22.0**

## **1.114 babel-plugin-transform-es2015-block-scoping 6.26.0**

## **1.115 babel-plugin-transform-es2015-classes 6.24.1**

## **1.116 babel-plugin-transform-es2015-computed-properties 6.24.1**

## **1.117 babel-plugin-transform-es2015-destructuring 6.23.0**

## **1.118 babel-plugin-transform-es2015-duplicate-keys 6.24.1**

## **1.119 babel-plugin-transform-es2015-for-of 6.23.0**

## **1.120 babel-plugin-transform-es2015-function-name 6.24.1**

## **1.121 babel-plugin-transform-es2015-literals 6.22.0**

## **1.122 babel-plugin-transform-es2015-modules-amd 6.24.1**

## **1.123 babel-plugin-transform-es2015-modules-commonjs 6.26.0**

## **1.124 babel-plugin-transform-es2015-modules-systemjs 6.24.1**

## **1.125 babel-plugin-transform-es2015-modules-umd 6.24.1**

- 1.126 babel-plugin-transform-es2015-object-super 6.24.1**
- 1.127 babel-plugin-transform-es2015-parameters 6.24.1**
- 1.128 babel-plugin-transform-es2015-shorthand-properties 6.24.1**
- 1.129 babel-plugin-transform-es2015-spread 6.22.0**
- 1.130 babel-plugin-transform-es2015-sticky-regex 6.24.1**
- 1.131 babel-plugin-transform-es2015-template-literals 6.22.0**
- 1.132 babel-plugin-transform-es2015-typeof-symbol 6.23.0**
- 1.133 babel-plugin-transform-es2015-unicode-regex 6.24.1**
- 1.134 babel-plugin-transform-strict-mode 6.24.1**
- 1.135 babel-register 6.26.0**
- 1.136 babel-template 6.26.0**
- 1.137 babel-traverse 6.26.0**
- 1.138 babel-types 6.26.0**
- 1.139 binary-extensions 1.11.0**
  - 1.139.1 Available under license
- 1.140 convert-source-map 1.5.1**
  - 1.140.1 Available under license
- 1.141 detect-indent 4.0.0**
  - 1.141.1 Available under license
- 1.142 fs-readdir-recursive 1.1.0**
  - 1.142.1 Available under license
- 1.143 home-or-tmp 2.0.0**
  - 1.143.1 Available under license
- 1.144 jsesc 1.3.0**
  - 1.144.1 Available under license
- 1.145 output-file-sync 1.1.2**
  - 1.145.1 Available under license
- 1.146 private 0.1.8**
  - 1.146.1 Available under license
- 1.147 regenerate 1.3.3**
  - 1.147.1 Available under license
- 1.148 regenerator-transform 0.10.1**
  - 1.148.1 Available under license
- 1.149 regexpu-core 2.0.0**
  - 1.149.1 Available under license
- 1.150 regjsgen 0.2.0**
  - 1.150.1 Available under license
- 1.151 regjsparser 0.1.5**
  - 1.151.1 Available under license



- 1.152 repeating 2.0.1**
  - 1.152.1 Available under license
- 1.153 to-fast-properties 1.0.3**
  - 1.153.1 Available under license
- 1.154 trim-right 1.0.1**
  - 1.154.1 Available under license
- 1.155 user-home 1.1.1**
  - 1.155.1 Available under license
- 1.156 v8flags 2.1.1**
  - 1.156.1 Available under license
- 1.157 cipher-base 1.0.4**
  - 1.157.1 Available under license
- 1.158 hmac-drbg 1.0.1**
  - 1.158.1 Available under license
- 1.159 md5js 1.3.4**
  - 1.159.1 Available under license
- 1.160 miller-rabin 4.0.1**
  - 1.160.1 Available under license
- 1.161 minimalistic-crypto-utils 1.0.1**
  - 1.161.1 Available under license
- 1.162 moment 2.19.1**
  - 1.162.1 Available under license
- 1.163 websocket-client 0.47.0**
  - 1.163.1 Available under license
- 1.164 crypto-browserify 3.12.0**
  - 1.164.1 Available under license
- 1.165 brace-expansion 1.1.11**
  - 1.165.1 Available under license
- 1.166 process-nextick-args 2.0.0**
  - 1.166.1 Available under license
- 1.167 regenerator-runtime 0.11.1**
  - 1.167.1 Available under license
- 1.168 source-map 0.5.7**
  - 1.168.1 Available under license
- 1.169 coverage 4.3.4**
  - 1.169.1 Available under license
- 1.170 ipython-genutils 0.2.0**
  - 1.170.1 Available under license
- 1.171 traitlets 4.3.2**

- 1.171.1 Available under license
- 1.172 requests-ntlm 1.1.0**
  - 1.172.1 Available under license
- 1.173 wsaccel 0.6.2**
  - 1.173.1 Available under license
- 1.174 diff-match-patch 20121119**
  - 1.174.1 Available under license
- 1.175 backgrid 0.3.8**
  - 1.175.1 Available under license
- 1.176 lunr 0.7.2**
  - 1.176.1 Available under license
- 1.177 pvutils 1.0.12**
- 1.178 pkijs 2.1.10**
  - 1.178.1 Available under license
- 1.179 js-cookie 2.1.4**
  - 1.179.1 Available under license
- 1.180 commander 2.15.1**
  - 1.180.1 Available under license
- 1.181 invariant 2.2.4**
  - 1.181.1 Available under license
- 1.182 readable-stream 2.3.6**
  - 1.182.1 Available under license
- 1.183 babel-preset-es2015 6.24.1**
- 1.184 babel-generator 6.26.1**
- 1.185 i18next 7.2.3**
  - 1.185.1 Available under license
- 1.186 gsap 1.20.3**
  - 1.186.1 Available under license
- 1.187 netns 2c9454e4fc6e2edc1a1c84e64ed3d6e662fb6991**
  - 1.187.1 Available under license
- 1.188 netlink dbc72376c86301bb873c332830857e73c9f701e3**
  - 1.188.1 Available under license
- 1.189 gojsonreference e02fc20de94c78484cd5ffb007f8af96be030a45**
  - 1.189.1 Available under license
- 1.190 gojsonschema f06f290571ce81ab347174c6f7ad2e1865af41a7**
  - 1.190.1 Available under license
- 1.191 safe-buffer 5.1.2**
  - 1.191.1 Available under license
- 1.192 babel-cli 6.26.0**

**1.193 babel-plugin-transform-regenerator 6.26.0**

**1.194 babel-core 6.26.0**

**1.195 async-timeout 3.0.0**

1.195.1 Available under license

**1.196 decorator 4.3.0**

1.196.1 Available under license

**1.197 minimist 1.2.0**

1.197.1 Available under license

**1.198 browserify-aes 1.2.0**

1.198.1 Available under license

**1.199 browserify-cipher 1.0.1**

1.199.1 Available under license

**1.200 create-ecdh 4.0.3**

1.200.1 Available under license

**1.201 create-hash 1.2.0**

1.201.1 Available under license

**1.202 create-hmac 1.1.7**

1.202.1 Available under license

**1.203 diffie-hellman 5.0.3**

1.203.1 Available under license

**1.204 hash-base 3.0.4**

1.204.1 Available under license

**1.205 minimalistic-assert 1.0.1**

1.205.1 Available under license

**1.206 pbkdf2 3.0.16**

1.206.1 Available under license

**1.207 public-encrypt 4.0.2**

1.207.1 Available under license

**1.208 randomfill 1.0.4**

1.208.1 Available under license

**1.209 ripemd160 2.0.2**

1.209.1 Available under license

**1.210 ntlm-auth 1.2.0**

1.210.1 Available under license

**1.211 cached-property 1.4.3**

1.211.1 Available under license

**1.212 moment-duration-format 2.2.2**

1.212.1 Available under license

**1.213 ptyprocess 0.6.0**

1.213.1 Available under license  
**1.214 backcall 0.1.0**  
**1.215 jdcal 1.4**  
1.215.1 Available under license  
**1.216 django-auth-ldap 1.7.0**  
1.216.1 Available under license  
**1.217 django-import-export 1.0.1**  
1.217.1 Available under license  
**1.218 automat 0.7.0**  
1.218.1 Available under license  
**1.219 et-xmlfile 1.0.1**  
**1.220 txaio 18.8.1**  
1.220.1 Available under license  
**1.221 django-cors-headers 2.4.0**  
1.221.1 Available under license  
**1.222 odfpy 1.3.6**  
1.222.1 Available under license  
**1.223 elliptic 6.4.1**  
**1.224 supports-color 5.5.0**  
1.224.1 Available under license  
**1.225 punycode 2.1.1**  
1.225.1 Available under license  
**1.226 zlib 1.2.3**  
1.226.1 Available under license  
**1.227 pynacl 1.3.0**  
1.227.1 Available under license  
**1.228 plotly-js-basic-dist 1.44.1**  
1.228.1 Available under license  
**1.229 flatpickr 4.5.2**  
1.229.1 Available under license  
**1.230 babel-helper-regex 6.24.1**  
1.230.1 Available under license  
**1.231 responses 0.10.5**  
1.231.1 Available under license  
**1.232 colorama 0.4.1**  
1.232.1 Available under license  
**1.233 jquery-ui 1.12.1**  
**1.234 paramiko 2.6.0**  
**1.235 webpack-jquery-ui 2.0.1**

- 1.236 bzip2 1.0.8**
- 1.237 iptables 1.8.3**
- 1.238 open-ldap 2.4.48**
- 1.239 select2 4.0.8**
  - 1.239.1 Available under license
- 1.240 sqlite 3.30.1**
- 1.241 python-setuptools 41.2.0**
  - 1.241.1 Available under license
- 1.242 zlib 1.2.8**
  - 1.242.1 Available under license
- 1.243 zlib 1.2.5**
  - 1.243.1 Available under license
- 1.244 json-c 0.99.8**
  - 1.244.1 Available under license
- 1.245 lua-cjson 2.1.0**
  - 1.245.1 Available under license
- 1.246 gmp 6.1.2**
  - 1.246.1 Available under license
- 1.247 net-tools 2.10**
  - 1.247.1 Available under license
- 1.248 ncurses 6.1**
  - 1.248.1 Available under license
- 1.249 libvmtools 10.3.5.7752**
  - 1.249.1 Available under license
- 1.250 popt 1.16**
  - 1.250.1 Available under license
- 1.251 pyparsing 2.4.2**
  - 1.251.1 Available under license
- 1.252 packaging 19.2**
  - 1.252.1 Available under license
- 1.253 jsonref 0.2**
  - 1.253.1 Available under license
- 1.254 cryptography 2.8**
  - 1.254.1 Available under license
- 1.255 xz 5.2.4**
  - 1.255.1 Available under license
- 1.256 cached-property 1.5.1**
  - 1.256.1 Available under license
- 1.257 python-dockerpty 0.4.1**

- 1.257.1 Available under license
- 1.258 core-js 2.5.5**
- 1.258.1 Available under license
- 1.259 readline 8.0**
- 1.259.1 Available under license
- 1.260 libxslt 1.1.34**
- 1.260.1 Available under license
- 1.261 kombu 4.6.7**
- 1.261.1 Available under license
- 1.262 pyyaml 5.3**
- 1.262.1 Available under license
- 1.263 six 1.14.0**
- 1.263.1 Available under license
- 1.264 amqp 2.5.2**
- 1.264.1 Available under license
- 1.265 vine 1.3.0**
- 1.265.1 Available under license
- 1.266 pytzdata 2019.1**
- 1.266.1 Available under license
- 1.267 busybox 1.31.1**
- 1.267.1 Available under license
- 1.268 postgresql 12.2**
- 1.268.1 Available under license
- 1.269 libunistring 0.9.10**
- 1.269.1 Available under license
- 1.270 libyaml 0.2.2**
- 1.270.1 Available under license
- 1.271 simplegeneric 0.8.1**
- 1.271.1 Available under license
- 1.272 dhcp 4.4.1**
- 1.272.1 Available under license
- 1.273 fs.realpath 1.0.0**
- 1.273.1 Available under license
- 1.274 evp\_bytestokey 1.0.3**
- 1.274.1 Available under license
- 1.275 backbone.radio 2.0.0**
- 1.275.1 Available under license
- 1.276 randombytes 2.0.6**
- 1.276.1 Available under license

- 1.277 bn.js 4.11.8**
  - 1.277.1 Available under license
- 1.278 hash.js 1.1.5**
  - 1.278.1 Available under license
- 1.279 string\_decoder 1.1.1**
  - 1.279.1 Available under license
- 1.280 asn1.js 4.10.1**
  - 1.280.1 Available under license
- 1.281 object.assign 4.1.1**
  - 1.281.1 Available under license
- 1.282 des.js 1.0.0**
  - 1.282.1 Available under license
- 1.283 ldap-filters 2.2.2**
  - 1.283.1 Available under license
- 1.284 object.omit 2.0.1**
  - 1.284.1 Available under license
- 1.285 sha.js 2.4.11**
  - 1.285.1 Available under license
- 1.286 backbone.marionette 3.4.4**
  - 1.286.1 Available under license
- 1.287 ldap-filter 0.2.1**
  - 1.287.1 Available under license
- 1.288 pendulum 2.0.4**
  - 1.288.1 Available under license
- 1.289 postcss 6.0.21**
  - 1.289.1 Available under license
- 1.290 pyasn 0.1.9**
  - 1.290.1 Available under license
- 1.291 soundex 0.2.1**
  - 1.291.1 Available under license
- 1.292 start-stop-daemon 1.18.10**
  - 1.292.1 Available under license
- 1.293 text-encoding-shim 1.0.4**
  - 1.293.1 Available under license
- 1.294 docker-pycreds 0.4.0**
  - 1.294.1 Available under license
- 1.295 libevent 2.1.11**
  - 1.295.1 Available under license
- 1.296 fdisk 2.35.1**

- 1.296.1 Available under license
- 1.297 libffi 3.3**
  - 1.297.1 Available under license
- 1.298 python 3.8.2**
  - 1.298.1 Available under license
- 1.299 netcat 0.7.1**
  - 1.299.1 Available under license
- 1.300 log-rotate 3.15.1**
  - 1.300.1 Available under license
- 1.301 stunnel 5.56**
  - 1.301.1 Available under license
- 1.302 bind 9.11.13**
  - 1.302.1 Available under license
- 1.303 sudo 1.8.31**
  - 1.303.1 Available under license
- 1.304 libnettle6 3.5.1**
  - 1.304.1 Available under license
- 1.305 jquery 3.5.1**
  - 1.305.1 Available under license
- 1.306 redis 5.0.7**
  - 1.306.1 Available under license
- 1.307 jsonschema 2.5.1**
  - 1.307.1 Available under license
- 1.308 pycparser 2.19**
  - 1.308.1 Available under license
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  - 1.364.1 Available under license
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## 1.6 underscore 1.8.3

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## 1.7 has-ansi 2.0.0

### 1.7.1 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
```

```
...
```

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

```
...
```

```
## Usage
```

```
```js
```

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

```
hasAnsi('\u001b[4mcake\u001b[0m');
```

```
//=> true
```

```
hasAnsi('cake');
```

```
//=> false
```

```
...
```

```
## Related
```

```
- [has-ansi-cli](https://github.com/sindresorhus/has-ansi-cli) - CLI for this module
```

```
- [strip-ansi](https://github.com/sindresorhus/strip-ansi) - Strip ANSI escape codes
```

```
- [ansi-regex](https://github.com/sindresorhus/ansi-regex) - Regular expression for matching ANSI escape codes
```

```
- [chalk](https://github.com/sindresorhus/chalk) - Terminal string styling done right
```

```
## License
```

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

## 1.8 supports-color 2.0.0

### 1.8.1 Available under license :

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

## Related

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

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## 1.9 unicodcsv 0.14.1

### 1.9.1 Available under license :

No license file was found, but licenses were detected in source scan.

```
license='BSD License',
'License :: OSI Approved :: BSD License',
```

Found in path(s):

```
* /opt/cola/permits/113619482_1695287522.204296/0/unicodcsv-0-14-1-3-tar-gz/unicodcsv-0.14.1/setup.py
```

No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1

Name: unicodcsv

Version: 0.14.1

Summary: Python2's stdlib csv module is nice, but it doesn't support unicode. This module is a drop-in replacement which *does*.

Home-page: <https://github.com/jdunck/python-unicodcsv>

Author: Jeremy Dunck

Author-email: [jdunck@gmail.com](mailto:jdunck@gmail.com)

License: BSD License

Description: unicodcsv

=====

The unicodcsv is a drop-in replacement for Python 2.7's csv module which supports unicode strings without a hassle. Supported versions are python 2.7, 3.3, 3.4, 3.5, and pypy 2.4.0.

More fully

-----

Python 2's csv module doesn't easily deal with unicode strings, leading to the dreaded "'ascii' codec can't encode characters in position ..." exception.

You can work around it by encoding everything just before calling write (or just after read), but why not add support to the serializer?

.. code-block:: pycon

```
>>> import unicodcsv as csv
>>> from io import BytesIO
>>> f = BytesIO()
>>> w = csv.writer(f, encoding='utf-8')
>>> _ = w.writerow((u'é', u'ñ'))
>>> _ = f.seek(0)
>>> r = csv.reader(f, encoding='utf-8')
>>> next(r) == [u'é', u'ñ']
True
```

Note that unicodcsv expects a bytestream, not unicode -- so there's no need to use `codecs.open` or similar wrappers. Plain `open(..., 'rb')` will do.

(Version 0.14.0 dropped support for python 2.6, but 0.14.1 added it back. See [c0b7655248c4249](#) for the mistaken, breaking change.)

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Natural Language :: English

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language

:: Python :: 2.7

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Programming Language :: Python :: 3.5

Classifier: Programming Language :: Python :: Implementation :: PyPy

Classifier: Programming Language :: Python :: Implementation :: CPython

Found in path(s):



\* /opt/cola/permits/113619482\_1695287522.204296/0/unicodecsv-0-14-1-3-tar-gz/unicodecsv-0.14.1/unicodecsv.egg-info/PKG-INFO  
\* /opt/cola/permits/113619482\_1695287522.204296/0/unicodecsv-0-14-1-3-tar-gz/unicodecsv-0.14.1/PKG-INFO

## 1.10 buffer-xor 1.0.3

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## 1.11 backbone 1.2.3

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## 1.12 syslinux 6.03

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```

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```
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```

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

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```
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```

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June 26, 2010

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### 3.5.0.1

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# 1.16 backbone 1.3.3

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# 1.17 backbone-computedfields 0.0.12

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```
/**
 * Sinon.JS 1.5.0, 2012/10/19
 *
 * @author Christian Johansen (christian@cjohansen.no)
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*/
```

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```
* /opt/cola/permits/147231139_1695304164.8714235/0/master-179-zip/backbone-computedfields-
master/test/lib/sinon/sinon.js
```

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```
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```

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```
* /opt/cola/permits/147231139_1695304164.8714235/0/master-179-zip/backbone-computedfields-
master/lib/amd/backbone.computedfields.js
* /opt/cola/permits/147231139_1695304164.8714235/0/master-179-zip/backbone-computedfields-
master/lib/backbone.computedfields.js
```

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* /opt/cola/permits/147231139_1695304164.8714235/0/master-179-zip/backbone-computedfields-
master/README.md
```

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```
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* Bootstrap Responsive v2.1.1  
*  
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* http://www.apache.org/licenses/LICENSE-2.0  
*  
* Designed and built with all the love in the world @twitter by @mdo and @fat.  
*/
```

Found in path(s):

```
* /opt/cola/permits/147231139_1695304164.8714235/0/master-179-zip/backbone-computedfields-master/examples/css/bootstrap-responsive.css  
* /opt/cola/permits/147231139_1695304164.8714235/0/master-179-zip/backbone-computedfields-master/examples/css/bootstrap-responsive.min.css
```

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```
/*!  
* chai  
* Copyright(c) 2011-2012 Jake Luer <jake@alogicalparadox.com>  
* MIT Licensed  
*/
```

Found in path(s):

```
* /opt/cola/permits/147231139_1695304164.8714235/0/master-179-zip/backbone-computedfields-master/test/lib/chai.js
```

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

Found in path(s):

```
* /opt/cola/permits/147231139_1695304164.8714235/0/master-179-zip/backbone-computedfields-master/test/lib/mocha/mocha.js
```

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```
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* Bootstrap v2.1.1  
*  
* Copyright 2012 Twitter, Inc  
* Licensed under the Apache License v2.0  
* http://www.apache.org/licenses/LICENSE-2.0  
*  
*/
```

\* Designed and built with all the love in the world @twitter by @mdo and @fat.

\*/

Found in path(s):

\* /opt/cola/permits/147231139\_1695304164.8714235/0/master-179-zip/backbone-computedfields-master/examples/css/bootstrap.min.css

\* /opt/cola/permits/147231139\_1695304164.8714235/0/master-179-zip/backbone-computedfields-master/examples/css/bootstrap.css

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/\*\*

\* Inspects an object.

\*

\* @see taken from node.js `util` module (copyright Joyent, MIT license)

\* @api private

\*/

/\*\*

\* Asserts deep equality

\*

\* @see taken from node.js `assert` module (copyright Joyent, MIT license)

\* @api private

\*/

Found in path(s):

\* /opt/cola/permits/147231139\_1695304164.8714235/0/master-179-zip/backbone-computedfields-master/test/lib/expect.js

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\* /opt/cola/permits/148343421\_1695307977.777354/0/cookies-2-2-1-tar-gz/cookies-2.2.1/cookies.py

No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1

Name: cookies

Version: 2.2.1

Summary: Friendlier RFC 6265-compliant cookie parser/renderer

Home-page: <https://github.com/sashahart/cookies>

Author: Sasha Hart

Author-email: s@sashahart.net

License: UNKNOWN

Description: What is this and what is it for?

-----

cookies.py is a Python module for working with HTTP cookies: parsing and rendering 'Cookie:' request headers and 'Set-Cookie:' response headers, and exposing a convenient API for creating and modifying cookies. It can be used as a replacement of Python's Cookie.py (aka http.cookies).

Features

-----

- \* Rendering according to the excellent new RFC 6265 (rather than using a unique ad hoc format inconsistently relating to unrealistic, very old RFCs which everyone ignored). Uses URL encoding to represent

non-ASCII by default, like many other languages' libraries

- \* Liberal parsing, incorporating many complaints about Cookie.py barfing on common cookie formats which can be reliably parsed (e.g. search 'cookie' on the Python issue tracker)

- \* Well-documented code, with chapter and verse from RFCs (rather than arbitrary, undocumented decisions and huge tables of magic values, as you see in Cookie.py).

- \* Test coverage at 100%, with a much more comprehensive test suite than Cookie.py

- \* Single-source compatible with the following Python versions: 2.6, 2.7, 3.2, 3.3 and PyPy (2.7).

- \* Cleaner, less surprising API::

```
# old Cookie.py - this code is all directly from its docstring
>>> from Cookie import SmartCookie
>>> C = SmartCookie()
>>> # n.b. it's "smart" because it automatically pickles Python objects,
>>> # which is actually
```



quite stupid for security reasons!

```
>>> C["rocky"] = "road"
>>> C["rocky"]["path"] = "/cookie"
>>> # So C["rocky"] is a string, except when it's a dict...
>>> # and why do I have to write [""] to access a fixed set of attrs?
>>> # Look at the atrocious way I render out a request header:
>>> C.output(attrs=[], header="Cookie:")
'Cookie: rocky=road'
```

```
# new cookies.py
>>> from cookies import Cookies, Cookie
>>> cookies = Cookies(rocky='road')
>>> # Can also write explicitly: cookies['rocky'] = Cookie['road']
>>> cookies['rocky'].path = "/cookie"
>>> cookies.render_request()
'rocky=road'
```

\* Friendly to customization, extension, and reuse of its parts.

Unlike Cookie.py, it doesn't lock all implementation inside its own classes (forcing you to write ugly wrappers as Django, Trac, Werkzeug/Flask,

web.py

and Tornado had to do). You can suppress minor parse exceptions with parameters rather than subclass wrappers. You can plug in your own parsers, renderers and validators for new or existing cookie attributes. You can render the data out in a dict. You can easily use the underlying imperative API or even lift the parser's regexps for your own parser or project. They are very well documented and relate directly to RFCs, so you know exactly what you are getting and why. It's MIT-licensed so do what you want (but I'd love to know what use you are getting from it!)

\* One file, so you can just drop cookies.py into your project if you like

\* MIT license, so you can use it in whatever you want with no strings

Things this is not meant to do

-----  
While this is intended to be a good module for handling cookies, it does not even try to do any of the following:

- \* Maintain backward compatibility with Cookie.py, which would mean inheriting its confusions and bugs
- \* Implement RFCs 2109 or 2965, which have always been ignored by almost everyone and are now obsolete as well
- \* Handle every conceivable output from terrible legacy apps, which is not possible to do without lots of silent data loss and corruption (the parser does try to be liberal as possible otherwise, though)
- \* Provide a means to store pickled Python objects in cookie values (that's a big security hole)

This doesn't compete with the cookielib (<http://cookielib.org>) module in the Python standard library, which is specifically for implementing cookie storage and

similar behavior in an HTTP client such as a browser. Things cookielib does that this doesn't:

- \* Write to or read from browsers' cookie stores or other proprietary formats for storing cookie data in files
- \* Handle the browser/client logic like deciding which cookies to send or discard, etc.

If you are looking for a cookie library but neither this one nor cookielib will help, you might also consider the implementations in WebOb or Bottle.

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

Classifier: Environment :: Other Environment

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: MIT License

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.2

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: Implementation :: PyPy

Classifier: Topic :: Software Development :: Libraries :: Python Modules

Found in path(s):

\* /opt/cola/permits/148343421\_1695307977.777354/0/cookies-2-2-1-tar-gz/cookies-2.2.1/cookies.egg-info/PKG-INFO

\*

/opt/cola/permits/148343421\_1695307977.777354/0/cookies-2-2-1-tar-gz/cookies-2.2.1/PKG-INFO

No license file was found, but licenses were detected in source scan.

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on common cookie formats which can be reliably parsed (e.g. search 'cookie' on the Python issue tracker)

- \* Well-documented code, with chapter and verse from RFCs (rather than arbitrary, undocumented decisions and huge tables of magic values, as you see in Cookie.py).
- \* Test coverage at 100%, with a much more comprehensive test suite than Cookie.py
- \* Single-source compatible with the following Python versions: 2.6, 2.7, 3.2, 3.3 and PyPy (2.7).
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>>> C["rocky"]["path"] = "/cookie"
>>> # So C["rocky"] is a string, except when it's a dict...
>>> # and why do I have to write ["" ] to access a fixed set of attrs?
>>> # Look at the atrocious way I render out a request header:
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'Cookie: rocky=road'
```

```
# new cookies.py
>>> from cookies import Cookies, Cookie
>>> cookies = Cookies(rocky='road')
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>>> cookies['rocky'].path = "/cookie"
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'rocky=road'
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- \* One file, so you can just drop cookies.py into your project if you like
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- \* Write to or read from browsers' cookie stores or other proprietary formats for storing cookie data in files
- \* Handle the browser/client logic like deciding which cookies to send or discard, etc.

If you are looking for a cookie library but neither this one nor cookielib will help, you might also consider the implementations in WebOb or Bottle.

Found in path(s):

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No license file was found, but licenses were detected in source scan.

```
from setuptools import setup, Command
from cookies import __version__
```

```
class Test(Command):
    user_options = []

    def initialize_options(self):
        pass

    def finalize_options(self):
        pass

    def run(self):
        try:
            import pytest
        except ImportError:
```

```

        raise AssertionError("Install py.test to run the tests")
import sys, subprocess
errno = subprocess.call([sys.executable, '-m', 'py.test'])
raise SystemExit(errno)

setup(
    name="cookies",
    version=__version__,
    author="Sasha Hart",
    author_email="s@sashahart.net",
    url="https://github.com/sashahart/cookies",
    py_modules=['cookies', 'test_cookies'],
    description="Friendlier RFC 6265-compliant cookie parser/renderers",
    long_description=open('README').read(),
    classifiers=[
        "Development Status :: 4 - Beta",
        "Environment :: Other Environment",
        "Intended
Audience :: Developers",
        "License :: OSI Approved :: MIT License",
        "Programming Language :: Python :: 2.6",
        "Programming Language :: Python :: 2.7",
        "Programming Language :: Python :: 3",
        "Programming Language :: Python :: 3.2",
        "Programming Language :: Python :: 3.3",
        "Programming Language :: Python :: Implementation :: PyPy",
        "Topic :: Software Development :: Libraries :: Python Modules",
    ],
    cmdclass = {'test': Test},
)

```

Found in path(s):

\* /opt/cola/permits/148343421\_1695307977.777354/0/cookies-2-2-1-tar-gz/cookies-2.2.1/setup.py

## 1.23 django-bulk-update 1.1.10

### 1.23.1 Available under license :

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Metadata-Version: 1.1

Name: django-bulk-update

Version: 1.1.10

Summary: Bulk update using one query over Django ORM.

Home-page: <https://github.com/aykut/django-bulk-update>

Author: Aykut Ozat

Author-email: [aykutozat@gmail.com](mailto:aykutozat@gmail.com)

License: UNKNOWN

Description: django-bulk-update

=====  
[![Build Status](https://travis-ci.org/aykut/django-bulk-update.svg?branch=master)](https://travis-ci.org/aykut/django-bulk-update)

[![Coverage Status](https://coveralls.io/repos/aykut/django-bulk-update/badge.svg?branch=master)](https://coveralls.io/r/aykut/django-bulk-update?branch=master)

Simple bulk update over Django ORM or with helper function.

This project aims to bulk update given objects using **one query** over **Django ORM**.

Installation

=====  
pip install django-bulk-update

Usage

=====  
With manager:

```
```python
import random
from bulk_update.manager import BulkUpdateManager
from tests.models import Person

class Person(models.Model):
    ...
    objects = BulkUpdateManager()

random_names = ['Walter', 'The Dude', 'Donny', 'Jesus']
people = Person.objects.all()
for person in people:
    person.name = random.choice(random_names)

Person.objects.bulk_update(people, update_fields=['name']) # updates only name column
Person.objects.bulk_update(people, exclude_fields=['username']) # updates all columns except username
Person.objects.bulk_update(people) # updates all columns
Person.objects.bulk_update(people, batch_size=50000) # updates all columns by 50000 sized chunks
```
```

With helper:

```
```python

import random
from bulk_update.helper import bulk_update
from tests.models import Person
```

```

random_names = ['Walter', 'The Dude', 'Donny', 'Jesus']
people = Person.objects.all()
for person in people:
    person.name = random.choice(random_names)

bulk_update(people, update_fields=['name']) # updates only name column
bulk_update(people, exclude_fields=['username']) # updates all columns except username
bulk_update(people, using='someotherdb') # updates all columns using the given db
bulk_update(people) # updates all columns using the default db
bulk_update(people, batch_size=50000) # updates all columns by 50000 sized chunks using the default db
...

```

Note: You can consider to use `.only('name')` when you only want to update `name`, so that Django will only retrieve name data from db.

And consider to use `.defer('username')` when you don't want to update `username`, so Django won't retrieve username from db.

These optimization can improve the performance even more.

#### Performance Tests:

```
=====
```

Here we test the performance of the `bulk_update` function vs. simply calling `.save()` on every object update (`dummy_update`). The interesting metric is the speedup using the `bulk_update` function more than the actual raw times.

```

```python
# Note: SQLite is unable to run the `timeit` tests
# due to the max number of sql variables
In [1]: import os
In [2]: import timeit
In [3]: import django

In [4]: os.environ['DJANGO_SETTINGS_MODULE'] = 'tests.test_settings'
In [5]: django.setup()

In [6]: from tests.fixtures import create_fixtures

In [7]: django.db.connection.creation.create_test_db()
In [8]: create_fixtures(1000)

In [9]: setup="""
import random
from bulk_update import helper
from tests.models import Person
random_names = ['Walter', 'The Dude', 'Donny', 'Jesus']

```

```

ids = list(Person.objects.values_list('id', flat=True)[:1000])
people = Person.objects.filter(id__in=ids)
for p in people:
    name = random.choice(random_names)
    p.name = name
    p.email = '%s@example.com' % name
bu_update = lambda: helper.bulk_update(people, update_fields=['name', 'email'])
'''

```

```
In [10]: bu_perf = min(timeit.Timer('bu_update()', setup=setup).repeat(7, 100))
```

```

In [11]: setup="""
import random
from tests.models import Person
from django.db.models import F
random_names = ['Walter', 'The Dude', 'Donny', 'Jesus']
ids = list(Person.objects.values_list('id', flat=True)[:1000])
people = Person.objects.filter(id__in=ids)
def dummy_update():
    for p in people:
        name = random.choice(random_names)
        p.name = name
        p.email = '%s@example.com' % name
        p.save(update_fields=['name', 'email'])
'''

```

```
In [12]: dummy_perf = min(timeit.Timer('dummy_update()', setup=setup).repeat(7, 100))
```

```
In [13]: print 'Bulk update performance: %.2f. Dummy update performance: %.2f. Speedup: %.2f.' % (bu_perf,
dummy_perf, dummy_perf / bu_perf)
```

```
Bulk update performance: 7.05. Dummy update performance: 373.12. Speedup: 52.90.
'''
```

## Requirements

```
=====
```

```
- Django 1.2+
```

## Contributors

```
=====
```

- [aykut](https://github.com/aykut)
- [daleobrien](https://github.com/daleobrien)
- [sruon](https://github.com/sruon)
- [HowerHell](https://github.com/HoverHell)
- [c-nichols](https://github.com/c-nichols)
- [towr](https://github.com/towr)
- [joshblum](https://github.com/joshblum)
- [luzfcb](https://github.com/luzfcb)
- [torchingloom](https://github.com/torchingloom)
- [cihann](https://github.com/cihann)



- [wetneb](https://github.com/wetneb)
- [tatterdemalion](https://github.com/tatterdemalion)
- [gabriel-laet](https://github.com/gabriel-laet)

#### TODO

- Geometry Fields support

#### License

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Platform: UNKNOWN

Classifier: Environment :: Web Environment

Classifier: Framework :: Django

Classifier: Intended Audience :: Developers

Classifier: License :: OSI Approved :: BSD License

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language ::

Python :: 2

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: 3.4

Classifier: Topic :: Internet :: WWW/HTTP

Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content

Found in path(s):

\* /opt/cola/permits/148344584\_1695307979.0263047/0/django-bulk-update-1-1-10-tar-gz/django-bulk-update-1.1.10/PKG-INFO

\* /opt/cola/permits/148344584\_1695307979.0263047/0/django-bulk-update-1-1-10-tar-gz/django-bulk-update-1.1.10/django\_bulk\_update.egg-info/PKG-INFO

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\* /opt/cola/permits/148344584\_1695307979.0263047/0/django-bulk-update-1-1-10-tar-gz/django-bulk-update-1.1.10/README.md

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\* /opt/cola/permits/148344584\_1695307979.0263047/0/django-bulk-update-1-1-10-tar-gz/django-bulk-update-1.1.10/setup.py

## 1.24 brorand 1.1.0

### 1.24.1 Available under license :

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```
# Brorand
```

```
#### LICENSE
```

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Found in path(s):

```
* /opt/cola/permits/150803033_1695308396.3979056/0/brorand-1-1-0-zip/brorand-1.1.0/README.md
```

## 1.25 browserify-sign 4.0.4

### 1.25.1 Available under license :

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## 1.26 jsestc 0.5.0

### 1.26.1 Available under license :

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## 1.27 json5 0.5.1

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## 1.28 xmldict 0.11.0

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## 1.29 appdirs 1.4.3

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## 1.30 strict-rfc3339 0.7

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Version 3, 29 June 2007

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## 1.36 util-deprecate 1.0.2

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# 1.38 ansi-styles 2.2.1

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## 1.41 arr-flatten 1.1.0

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## 1.42 array-unique 0.2.1

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## 1.43 async-each 1.0.1

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```
// async-each MIT license (by Paul Miller from http://paulmillr.com).
```

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```
* /opt/cola/permits/162679260_1695313299.4595304/0/async-each-zip/async-each/index.js
```

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```
# async-each
```

No-bullshit, ultra-simple, 35-lines-of-code async parallel forEach function for JavaScript.

We don't need junky 30K async libs. Really.

For browsers and node.js.

```
## Installation
```

```
* Just include async-each before your scripts.
```

```
* `npm install async-each` if you're using node.js.
```

```
* `bower install async-each` if you're using [Bower](http://bower.io).
```

```
## Usage
```

```
* `each(array, iterator, callback);` — `Array`, `Function`, `(optional) Function`
```

```
* `iterator(item, next)` receives current item and a callback that will mark the item as done. `next` callback receives optional `error, transformedItem` arguments.
```

```
* `callback(error, transformedArray)` optionally receives first error and transformed result `Array`.
```

Node.js:

```
```javascript
```

```
var each = require('async-each');
```

```
each(['a.js', 'b.js', 'c.js'], fs.readFile, function(error, contents) {
  if (error) console.error(error);
  console.log('Contents for a, b and c:',
    contents);
});
```
```

Browser:

```
```javascript
window.asyncEach(list, fn, callback);
```
```

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 *
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 * additional grant of patent rights can be found in the PATENTS file in
 * the same directory.
 */
```

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\* /opt/cola/permits/162680167\_1695313273.487567/0/babel-polyfill-4-zip/babel-polyfill/node\_modules/regenerator-runtime/runtime.js  
\* /opt/cola/permits/162680167\_1695313273.487567/0/babel-polyfill-4-zip/babel-polyfill/dist/polyfill.js

## 1.45 babel-runtime 6.26.0

# 1.46 balanced-match 1.0.0

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# 1.47 strip-ansi 3.0.1

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## 1.49 chalk 1.1.3

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\* /opt/cola/permits/162688776\_1695313339.2275658/0/chokidar-4-zip/chokidar/README.md

## 1.51 source-map-support 0.4.18

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## 1.52 set-immediate-shim 1.0.1

## 1.53 safe-buffer 5.1.1



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## 1.55 repeat-element 1.1.2

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## 1.56 regex-cache 0.4.4

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## 1.57 core-util-is 1.0.2

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## 1.60 punycode 1.4.1

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## 1.68 parse-glob 3.0.4

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# 1.80 graceful-fs 4.1.11

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## 1.87 dcron 4.5

## 1.88 webcolors 1.7

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## 1.89 ifupdown 0.8.16

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Source: <https://anonscm.debian.org/cgit/collab-maint/ifupdown.git>

Files: \*

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functions 6.22.0**

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scoped-functions 6.22.0**

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scoping 6.26.0**

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\* /opt/cola/permits/172800841\_1695317787.8567624/0/regenerator-transform-0-10-1-tar-gz/package/lib/hoist.js  
\* /opt/cola/permits/172800841\_1695317787.8567624/0/regenerator-transform-0-10-1-tar-gz/package/src/visit.js  
\* /opt/cola/permits/172800841\_1695317787.8567624/0/regenerator-transform-0-10-1-tar-gz/package/src/meta.js  
\* /opt/cola/permits/172800841\_1695317787.8567624/0/regenerator-transform-0-10-1-tar-gz/package/src/index.js  
\* /opt/cola/permits/172800841\_1695317787.8567624/0/regenerator-transform-0-10-1-tar-gz/package/src/emit.js  
\* /opt/cola/permits/172800841\_1695317787.8567624/0/regenerator-transform-0-10-1-tar-gz/package/src/leap.js  
\*

/opt/cola/permits/172800841\_1695317787.8567624/0/regenerator-transform-0-10-1-tar-gz/package/src/util.js  
\* /opt/cola/permits/172800841\_1695317787.8567624/0/regenerator-transform-0-10-1-tar-gz/package/src/hoist.js  
\* /opt/cola/permits/172800841\_1695317787.8567624/0/regenerator-transform-0-10-1-tar-gz/package/lib/visit.js  
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\* /opt/cola/permits/172800841\_1695317787.8567624/0/regenerator-transform-0-10-1-tar-gz/package/lib/emit.js

# 1.149 regexpu-core 2.0.0

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## 1.151 regjsparser 0.1.5

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## 1.155 user-home 1.1.1

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## 1.156 v8flags 2.1.1

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## 1.157 cipher-base 1.0.4

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## 1.158 hmac-drbg 1.0.1

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\* /opt/cola/permits/173222267\_1695320471.5921743/0/1473-hmac-drbg-1-0-1-tgz/package/README.md

## 1.159 md5js 1.3.4

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# 1.160 miller-rabin 4.0.1

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```

```
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```

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```
* /opt/cola/permits/173223781_1695320349.2920482/0/1569-miller-rabin-4-0-1-tgz/package/README.md
```

# 1.161 minimalistic-crypto-utils 1.0.1

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```
# minimalistic-crypto-utils
```

```
[![Build Status](https://secure.travis-ci.org/indutny/minimalistic-crypto-utils.svg)](http://travis-ci.org/indutny/minimalistic-crypto-utils)
```

```
[![NPM version](https://badge.fury.io/js/minimalistic-crypto-utils.svg)](http://badge.fury.io/js/minimalistic-crypto-
```

utils)

Very minimal utils that are required in order to write reasonable JS-only crypto module.

## Usage

```
```js
const utils = require('minimalistic-crypto-utils');
```

```
utils.toArray('abcd', 'hex');
utils.encode([ 1, 2, 3, 4 ], 'hex');
utils.toHex([ 1, 2, 3, 4 ]);
```
```

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[0]: <http://tools.ietf.org/html/rfc6979>  
[1]: <https://github.com/indutny/bn.js>  
[2]: <https://github.com/indutny/hash.js>  
[3]: <https://github.com/bitchan/eccrypto>  
[4]: <https://github.com/wanderer/secp256k1-node>

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## 1.162 moment 2.19.1

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## 1.163 websocket-client 0.47.0

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Version 2.1, February 1999

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## 1.164 crypto-browserify 3.12.0

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# 1.165 brace-expansion 1.1.11

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*/
```

Found in path(s):

```
* /opt/cola/permits/175074483_1695324263.486203/0/1766-regenerator-runtime-0-11-1-tgz/package/path.js  
* /opt/cola/permits/175074483_1695324263.486203/0/1766-regenerator-runtime-0-11-1-tgz/package/runtime.js  
* /opt/cola/permits/175074483_1695324263.486203/0/1766-regenerator-runtime-0-11-1-tgz/package/runtime-  
module.js
```

## 1.168 source-map 0.5.7

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## 1.173 wsaccel 0.6.2

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```
Metadata-Version: 1.1  
Name: wsaccel  
Version: 0.6.2  
Summary: Accelerator for ws4py and AutobahnPython  
Home-page: https://github.com/methane/wsaccel  
Author: INADA Naoki  
Author-email: songofacandy@gmail.com  
License: Apache  
Description: WSAccell
```

=====

WSAccell is WebSocket accelerator for `AutobahnPython` <<http://autobahn.ws/python>>`\_.

`ws4py <<https://github.com/Lawouach/WebSocket-for-Python>>`\_ and  
`Tornado <<http://www.tornadoweb.org/>>`\_.

WSAccel replaces per-byte process in them with Cython version.

AutobahnPython beginning with version 0.6 automatically uses WSAccel if available.

Otherwise you can run-time patch supported WebSocket libraries using:

```
.. code-block:: python
```

```
import wsaccel  
wsaccel.patch_autobahn() # for autobahn.  
wsaccel.patch_ws4py()   # for ws4py.
```

```
wsaccel.patch_tornado() # for Tornado
```

Platform: any

Classifier: Intended Audience :: Developers

Classifier: Operating System :: OS Independent

Classifier: Programming Language :: Python

Classifier: Programming Language :: Python :: 2

Classifier: Programming Language :: Python :: 2.6

Classifier: Programming Language :: Python :: 2.7

Classifier: Programming Language :: Python :: 3

Classifier: Programming Language :: Python :: 3.2

Classifier: Programming Language :: Python :: 3.3

Classifier: Programming Language :: Python :: Implementation :: CPython

Found in path(s):

\* /opt/cola/permits/178634281\_1695329474.5889049/0/wsaccel-0-6-2-tar-gz/wsaccel-0.6.2/PKG-INFO

# 1.174 diff-match-patch 20121119

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\* VERSION: 0.16.0

\* DATE: 2017-10-02

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\*

\* Requires TweenLite and CSSPlugin version 1.17.0 or later (TweenMax contains both TweenLite and CSSPlugin).

ThrowPropsPlugin is required for momentum-based continuation of movement after the mouse/touch is released (ThrowPropsPlugin is a membership benefit of Club GreenSock - <http://greensock.com/club/>).

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\* @author: Jack Doyle, [jack@greensock.com](mailto:jack@greensock.com)

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Found in path(s):

\* /opt/cola/permits/178644340\_1695329513.9393091/0/gsap-1-20-3-tgz/package/Draggable.js

\* /opt/cola/permits/178644340\_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/minified/utills/Draggable.min.js

```
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-  
tgz/package/src/uncompressed/utils/Draggable.js
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* VERSION: 1.15.6
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* DATE: 2017-06-19
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* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-  
tgz/package/src/uncompressed/easing/EasePack.js
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* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/EasePack.js
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* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-  
tgz/package/src/minified/easing/EasePack.min.js
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Found in path(s):

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* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/BezierPlugin.js
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* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-  
tgz/package/src/uncompressed/plugins/BezierPlugin.js
```

```
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-  
tgz/package/src/minified/plugins/BezierPlugin.min.js
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\* /opt/cola/permits/178644340\_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/minified/plugins/RoundPropsPlugin.min.js  
\* /opt/cola/permits/178644340\_1695329513.9393091/0/gsap-1-20-3-tgz/package/RoundPropsPlugin.js  
\* /opt/cola/permits/178644340\_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/uncompressed/plugins/RoundPropsPlugin.js  
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\* /opt/cola/permits/178644340\_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/minified/plugins/RaphaelPlugin.min.js  
\* /opt/cola/permits/178644340\_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/uncompressed/plugins/RaphaelPlugin.js  
\* /opt/cola/permits/178644340\_1695329513.9393091/0/gsap-1-20-3-tgz/package/RaphaelPlugin.js  
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Found in path(s):

- \* /opt/cola/permits/178644340\_1695329513.9393091/0/gsap-1-20-3-tgz/package/ScrollToPlugin.js
- \* /opt/cola/permits/178644340\_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/uncompressed/plugins/ScrollToPlugin.js
- \* /opt/cola/permits/178644340\_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/minified/plugins/ScrollToPlugin.min.js

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\*/

Found in path(s):

- \* /opt/cola/permits/178644340\_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/uncompressed/plugins/ModifiersPlugin.js
- \* /opt/cola/permits/178644340\_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/minified/plugins/ModifiersPlugin.min.js
- \* /opt/cola/permits/178644340\_1695329513.9393091/0/gsap-1-20-3-tgz/package/ModifiersPlugin.js

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Found in path(s):

- \* /opt/cola/permits/178644340\_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/minified/plugins/TextPlugin.min.js
- \* /opt/cola/permits/178644340\_1695329513.9393091/0/gsap-1-20-3-tgz/package/TextPlugin.js
- \* /opt/cola/permits/178644340\_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/uncompressed/plugins/TextPlugin.js

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```
/*!  
* VERSION: 1.2.0  
* DATE: 2017-01-17  
* UPDATES AND DOCS AT: http://greensock.com  
*  
* This file is to be used as a simple template for writing your own plugin. See the  
* TweenPlugin docs for more details.  
*  
* You can start by doing a search for "yourCustomProperty" and replace it with whatever the name  
* of your property is. This way of defining a plugin was introduced in version 1.9.0 - previous versions  
* of TweenLite won't work with this.  
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Found in path(s):

```
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/TEMPLATE_Plugin.js  
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-  
tgz/package/src/uncompressed/plugins/TEMPLATE_Plugin.js  
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```
/*!  
* VERSION: 0.1.12  
* DATE: 2017-01-17  
* UPDATES AND DOCS AT: http://greensock.com/jquery-gsap-plugin/  
*  
* Requires TweenLite version 1.8.0 or higher and CSSPlugin.  
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* @author: Jack Doyle, jack@greensock.com  
*/
```

Found in path(s):

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* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/jquery.gsap.js  
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/minified/jquery.gsap.min.js  
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/src/uncompressed/jquery.gsap.js  
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Found in path(s):

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* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/EaselPlugin.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-
tgz/package/src/minified/plugins/EaselPlugin.min.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-
tgz/package/src/uncompressed/plugins/EaselPlugin.js
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```
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```

Found in path(s):

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* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-
tgz/package/src/uncompressed/plugins/AttrPlugin.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-tgz/package/AttrPlugin.js
* /opt/cola/permits/178644340_1695329513.9393091/0/gsap-1-20-3-
tgz/package/src/minified/plugins/AttrPlugin.min.js
```

## 1.187 netns

2c9454e4fc6e2edc1a1c84e64ed3d6e662fb699

1

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## 1.188 netlink

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### 3

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# 1.193 babel-plugin-transform-regenerator 6.26.0

# 1.194 babel-core 6.26.0

# 1.195 async-timeout 3.0.0

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## 1.202 create-hmac 1.1.7

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## 1.215 jdcal 1.4

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## 1.219 et-xmlfile 1.0.1

## 1.220 txaio 18.8.1

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## 1.223 elliptic 6.4.1

## 1.224 supports-color 5.5.0

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## 1.226 zlib 1.2.3

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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## 1.233 jquery-ui 1.12.1

## 1.234 paramiko 2.6.0

## 1.235 webpack-jquery-ui 2.0.1

## 1.236 bzip2 1.0.8

## 1.237 iptables 1.8.3

## 1.238 open-ldap 2.4.48

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## 1.240 sqlite 3.30.1

## 1.241 python-setuptools 41.2.0

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## 1.242 zlib 1.2.8

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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
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```
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```



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## 1.245 lua-cjson 2.1.0

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when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision 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.
```

The hypothetical commands `show w' and `show c' should show the appropriate  
parts of the General Public License. Of course, the commands you use may  
be called something other than `show w' and `show c'; they could even be  
mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your  
school, if any, to sign a "copyright disclaimer" for the program, if  
necessary. Here is a sample; alter the names:

```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

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

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Version 3, 29 June 2007

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## 1.248 ncurses 6.1

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Upstream source <https://invisible-island.net/ncurses/ncurses-examples.html>

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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This package is used for testing builds of ncurses.

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-- vile:txtmode fc=72

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# 1.249 libvmtools 10.3.5.7752

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Open-vm-tools v10.3.0

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```
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```

```
base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
This work is part of OpenLDAP Software <http://www.openldap.org/>.
```

```
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## 1.253 jsonref 0.2

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## 1.255 xz 5.2.4

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# 1.257 python-dockerpty 0.4.1

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# 1.258 core-js 2.5.5

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more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

c) Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

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e) Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods,

procedures, authorization

keys, or other information required to install

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## 1.270 libyami 0.2.2

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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.

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

```
<!-- $Id$ -->
```

```
<!-- Generate ISC copyright comments from Docbook copyright metadata. -->
```

```
<xsl:stylesheet version="1.0"  
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"  
  xmlns:xi="http://www.w3.org/2001/XInclude"  
  xmlns:db="http://docbook.org/ns/docbook">  
  
  <xsl:template name="isc.copyright.format">  
    <xsl:param name="text"/>  
    <xsl:value-of select="$isc.copyright.leader"/>  
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>  
    <xsl:text>&#10;</xsl:text>  
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>  
    <xsl:if test="translate($rest, '&#9;&#32;', '')">  
      <xsl:call-template name="isc.copyright.format">  
        <xsl:with-param  
name="text" select="$rest"/>  
      </xsl:call-template>  
    </xsl:if>  
  </xsl:template>
```

```

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>&#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

```

<!--

- Local variables:
- mode: sgml
- End:

-->

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## 1.273 fs.realpath 1.0.0

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## 1.274 evp\_bytestokey 1.0.3

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## 1.275 backbone.radio 2.0.0

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## 1.276 randombytes 2.0.6

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## 1.277 bn.js 4.11.8

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# 1.278 hash.js 1.1.5

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# 1.279 string\_decoder 1.1.1

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

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

software.

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

All

Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived 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       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  | PSF        | yes                 |

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## 1.300 log-rotate 3.15.1

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The original code is FirewallControl.pas, released April 16, 2007.

The initial developer of the original code is Rainer Budde (<http://www.speed-soft.de>).

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<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

```

<xsl:stylesheet version="1.0"
  xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
  xmlns:xi="http://www.w3.org/2001/XInclude"
  xmlns:db="http://docbook.org/ns/docbook">

  <xsl:template name="isc.copyright.format">
    <xsl:param name="text"/>
    <xsl:value-of select="$isc.copyright.leader"/>
    <xsl:value-of select="normalize-space(substring-before($text, '&#10;'))"/>
    <xsl:text>&#10;</xsl:text>
    <xsl:variable name="rest" select="substring-after($text, '&#10;')"/>
    <xsl:if test="translate($rest, '&#9;&#32;', '')">

      <xsl:call-template name="isc.copyright.format">
        <xsl:with-param name="text" select="$rest"/>
      </xsl:call-template>
    </xsl:if>
  </xsl:template>

  <xsl:variable name="isc.copyright.text">
    <xsl:text>
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      file, You can obtain one at http://mozilla.org/MPL/2.0/.
    </xsl:text>
  </xsl:variable>

  <xsl:variable name="isc.copyright">
    <xsl:call-template name="isc.copyright.format">
      <xsl:with-param name="text">
        <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
          <xsl:text>Copyright (C) </xsl:text>
          <xsl:call-template name="copyright.years">
            <xsl:with-param name="years" select="year"/>
          </xsl:call-template>
        </xsl:for-each>
      </xsl:text> </xsl:text>
      <xsl:value-of select="holder"/>
      <xsl:value-of select="$isc.copyright.breakline"/>
    </xsl:call-template>
  </xsl:variable>

```

```
<xsl:text>#10;</xsl:text>
</xsl:for-each>
<xsl:value-of
select="$isc.copyright.text"/>
  </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>
```

<!--

- Local variables:  
- mode: sgml  
- End:

-->

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt  
Adler, Mark  
Allbery, Russ  
Anderson, Jamie  
Andrew, Nick  
Andric, Dimitry

Barron, Danny  
Bates, Tom  
Behan, Zdenk  
Bellis, Ray  
Benali, Elias  
Beverly, Jamie  
Boardman, Spider  
Bos, Sander  
Bostley, P.J.  
Bowes, Keith  
Boyce, Keith Garry  
Brantley, Michael  
Braun, Rob  
Bezina, Pavel  
Brooks, Piete  
Brown, Jerry  
Burr, Michael E  
Burton, Ross  
Bussjaeger, Andreas  
Calvin, Gary  
Campbell, Aaron  
Chazelas, Stephane  
Cheloha, Scott  
ek, Vtislav  
Coleman, Chris  
Corzine, Deven T.  
Cusack, Frank  
Dai, Wei  
Dill, David  
Earickson, Jeff  
Eckhardt, Drew  
Edgington, Ben  
Esipovich, Marc  
Espie, Marc  
Faigon, Ariel  
Farrell, Brian  
Fobes, Steve  
Frysinger, Mike  
G., Daniel Richard  
Gailly, Jean-loup  
Gelman, Stephen  
Gerraty, Simon J.  
Graber, Stephane  
Guillory, B.  
Hayman, Randy M.  
Henke, Joachim  
Hideaki, Yoshifuji  
Hieb, Dave



Holloway, Nick  
Hoover, Adam  
Hunter, Michael T.  
Hutchings, Ben  
Irrgang, Eric  
Jackson, Brian  
Jackson, John R.  
Jackson, Richard L., Jr.  
Janssen, Mark  
Jepeway, Chris  
Jorge, Joel Pele  
Jover, Guillem  
Juhani, Timo  
Kikuchi, Ayamura  
Kadow, Kevin  
Kasal, Stepan  
Kienenberger, Mike  
King, Dale  
King, Michael  
Klyachkin, Andrey  
Knoble, Jim  
Knox, Tim  
Komarnitsky, Alek O.  
Kondrashov, Nikolai  
Kopeek, Daniel  
Kranenburg, Paul  
Krause, David  
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Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbes, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.  
McLaughlin, Tom  
Makey, Jeff  
Mallayya, Sangamesh  
Marchionna, Michael D.  
Markham, Paul  
Martinian, Emin  
Meskes, Michael  
Michael, David  
Miller, Todd C.  
Minier, Loc  
Moffat, Darren  
Moldung, Jan Thomas  
Morris, Charles  
Mueller, Andreas

Mller, Dworkin  
Nieusma, Jeff  
Nikitser, Peter A.  
Nussel, Ludwig  
Ouellet, Jean-Philippe  
Paquet, Eric  
Paradis, Chantal  
Pasteleurs, Frederic  
Percival, Ted  
Perera, Andres  
Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
Plotnick, Alex  
de Raadt, Theo  
Rasch, Gudleik  
Reid, Steve  
Richards, Matt  
Rossum, Guido van  
Rouillard, John P.  
Rowe, William A., Jr.  
Roy, Alain  
Ruusame, Elan  
Ryabinkin, Eygene  
Sato, Yuichi  
Snchez, Wilfredo  
Sanders, Miguel  
Sasaki, Kan  
Saucier, Jean-Francois  
Schoenfeld, Patrick  
Schuring, Arno  
Schwarze, Ingo  
Scott, Dougal  
Sieger, Nick  
Simon, Thor Lancelot  
Slemko, Marc  
Smith, Andy  
Sobrado, Igor  
Soulen, Steven  
Spangler, Aaron  
Spradling, Cloyce D.  
Spradling, Michael  
Stier, Matthew  
Stoeckmann, Tobias  
Street, Russell

Stritzky, Tilo  
Stroucken, Michael  
Tarrall, Robert  
Thomas, Matthew  
Todd, Giles  
Toft, Martin  
Torek, Chris  
Tucker, Darren  
Uhl, Robert  
Uzel, Petr  
Valery, Reznic  
Van Dinter, Theo  
Venckus, Martynas  
de Vries, Maarten  
Wagner, Klaus  
Walsh, Dan  
Warburton, John  
Webb, Kirk  
Wetzel, Timm  
Wieringen, Marco van  
Wilk, Jakub  
Winiger, Gary  
Wood, David  
Zacarias, Gustavo  
Zolnowsky, John

The following people have worked to translate sudo into other languages as part of the Translation Project, see <https://translationproject.org> for more details.

Albuquerque, Pedro  
Blttermann, Mario  
Bogusz, Jakub  
Buo-ren, Lin  
Casagrande, Milo  
Castro, Felipe  
Cho, Seong-ho  
Chornoivan, Yuri  
Diguez,  
Francisco  
Fontenelle, Rafael  
Garca-Fontes, Walter  
Gezer, Volkan  
Hamasaki, Takeshi  
Hamming, Peter  
Hansen, Joe  
Hantrais, Frdric  
Hein, Jochen

Hufthammer, Karl Ove  
Jerovek, Damir  
Karvonen, Jorma  
Kazik, Duan  
Kelemen, Gbor  
Keeci, Mehmet  
Koir, Klemen  
Kozlov, Yuri  
Kramer, Jakob  
Krznar, Tomislav  
Marchal, Frdric  
Margeviius, Algimantas  
Maryanov, Pavel  
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Psa, Petr  
Puente, Enol  
Putanec, Boidar  
Qun, Trn Ngc  
Rasmussen, Sebastian  
Regueiro, Leandro  
Sarar, zgr  
Sendn, Abel  
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Spingos, Dimitris  
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r, Balzs  
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## 1.304 libnettle6 3.5.1

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21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
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25. [26]Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
26. [27]Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or [28]<H.Lambermont@chello.nl> ntpswep
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28. [30]Frank Kardel [31]<kardel (at) ntp (dot) org> PARSE <GENERIC>

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30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
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39. [42]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43]Tom Moore <tmoore@fiavel.daytonoh.ncr.com> i386 svr4 port
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42. [45]Derek Mulcahy <derek@toybox.demon.co.uk> and [46]Damon Hart-Davis <d@hd.org> ARCRON MSF clock driver
43. [47]Rob Neal <neal@ntp.org> Bancomm refclock and config/parse code maintenance
44. [48]Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling
45. [49]Dirce Richards <dirce@zk3.dec.com> Digital UNIX V4.0 port
46. [50]Wilfredo Sanchez <wsanchez@apple.com> added support for NetInfo
47. [51]Nick Sayer <mrapple@quack.kfu.com> SunOS streams modules
48. [52]Jack Sasportas <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory
49. [53]Ray Schnitzler <schnitz@unipress.com> Unixware1 port
50. [54]Michael Shields <shields@tembel.org> USNO clock driver
51. [55]Jeff Steinman <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver
52. [56]Harlan Stenn <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)
53. [57]Kenneth Stone <ken@sdd.hp.com> HP-UX port
54. [58]Ajit Thyagarajan <ajit@ee.udel.edu>IP multicast/anycast support
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TrueTime clock driver

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# 1.317 lvm2 2.02.185

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## 1.324 docker 4.1.0

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# 1.327 libseccomp 2.4.1

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Version 2.1, February 1999

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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*

\* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

\* <http://www.hypermall.com/>

\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY

\* interrupts us (except possibly for removal/insertion of the cable?)

\* 10/4/97 - began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

\* 10/5/97 - added code to handle PHY interrupts, disable PHY on

\* loss of link, and correctly re-enable PHY when link is

\* re-established. (put back CFG\_PHYIE)

\*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

\*

\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

\*

\* Linux driver for the IDT77201 NICStAR PCI ATM controller.

\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

\* see `init_nicstar()` for PHY initialization to change this. This driver

\* expects the Linux ATM stack to support scatter-gather

lists

\* `(skb->atm.iovcnt != 0)` for Rx skb's passed to `vcc->push`.

\*

\* Implementing minimal-copy of received data:

\* IDT always receives data into a small buffer, then large buffers

\* as needed. This means that data must always be copied to create

\* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)

\* Fix is simple: make large buffers large enough to hold entire

\* SDU, and leave `<small_buffer_data>` bytes empty at the start. Then

\* copy small buffer contents to head of large buffer.

\* Trick is to avoid fragmenting Linux, due to need for a lot of large

\* buffers. This is done by 2 things:

\* 1) `skb->destructor / skb->atm.recycle_buffer`

\* combined, allow `nicstar_free_rx_skb` to be called to

\* recycle large data buffers

\* 2) `skb_clone` of received buffers

\* See `nicstar_free_rx_skb` and `linearize_buffer` for implementation

\* details.

\*

\*

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\*  
\* M. Welsh, 6 July 1996  
\*  
\*  
\*/

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## 1.338 docker-containerd 1.2.12

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

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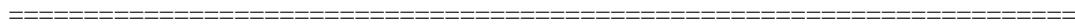
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Go support for Protocol Buffers - Google's data interchange format

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<https://github.com/golang/protobuf>

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## 1.339 docker-proxy

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Protocol Buffers for Go with Gadgets

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<http://github.com/gogo/protobuf>

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## 1.340 docker-engine 19.03.5

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

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## 1.341 libatomic-ops 7.6.10

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# URI.js

URI.js is an [RFC 3986](<http://www.ietf.org/rfc/rfc3986.txt>) compliant, scheme extendable URI parsing/validating/resolving library for all JavaScript environments (browsers, Node.js, etc).

It is also compliant with the IRI ([RFC 3987](<http://www.ietf.org/rfc/rfc3987.txt>)), IDNA ([RFC 5890](<http://www.ietf.org/rfc/rfc5890.txt>)), IPv6 Address ([RFC 5952](<http://www.ietf.org/rfc/rfc5952.txt>)), IPv6 Zone Identifier ([RFC 6874](<http://www.ietf.org/rfc/rfc6874.txt>)) specifications.

URI.js has an extensive test suite, and works in all (Node.js, web) environments. It weighs in at 6.2kb (gzipped, 16kb deflated).

## ## API

### ### Parsing

```
URI.parse("uri://user:pass@example.com:123/one/two.three?q1=a1&q2=a2#body");
//returns:
//{{
// scheme : "uri",
// userinfo : "user:pass",
// host : "example.com",
// port : 123,
// path : "/one/two.three",
// query : "q1=a1&q2=a2",
// fragment : "body"
//}}
```

### ### Serializing

```
URI.serialize({scheme
: "http", host : "example.com", fragment : "footer"}) === "http://example.com/#footer"
```

### ### Resolving

```
URI.resolve("uri://a/b/c/d?q", "../g") === "uri://a/g"
```

### ### Normalizing

```
URI.normalize("HTTP://ABC.com:80/%7Esmith/home.html") === "http://abc.com/~smith/home.html"
```

### ### Comparison

```
URI.equal("example://a/b/c/%7Bfoo%7D", "eXAMPLE://a/./b/./b/%63/%7bfoo%7d") === true
```

### ### IP Support

//IPv4 normalization

```
URI.normalize("//192.068.001.000") === "//192.68.1.0"
```

//IPv6 normalization

```
URI.normalize("//[2001:0:0DB8::0:0001]") === "//[2001:0:db8::1]"
```

//IPv6 zone identifier support

```
URI.parse("//[2001:db8::7%25en1]");
```

//returns:

```
//{{
```

```
// host : "2001:db8::7%en1"
```

```
//}}
```

### ### IRI Support

//convert IRI to URI

```
URI.serialize(URI.parse("http://exampl.org/ros")) === "http://xn--exampl-gva.org/ros%C3%A9"
```

//convert URI to IRI

```
URI.serialize(URI.parse("http://xn--exampl-gva.org/ros%C3%A9"), {iri:true}) === "http://exampl.org/ros"
```

### ### Options

All of

the above functions can accept an additional options argument that is an object that can contain one or more of the following properties:

\* ``scheme`` (string)

Indicates the scheme that the URI should be treated as, overriding the URI's normal scheme parsing behavior.

\* ``reference`` (string)

If set to ``suffix``, it indicates that the URI is in the suffix format, and the validator will use the option's ``scheme`` property to determine the URI's scheme.

\* ``tolerant`` (boolean, false)

If set to ``true``, the parser will relax URI resolving rules.

\* ``absolutePath`` (boolean, false)

If set to ``true``, the serializer will not resolve a relative ``path`` component.

\* ``iri`` (boolean, false)

If set to ``true``, the serializer will unescape non-ASCII characters as per [RFC 3987](<http://www.ietf.org/rfc/rfc3987.txt>).

\* ``unicodeSupport`` (boolean, false)

If set to ``true``, the parser will unescape non-ASCII characters in the parsed output as per [RFC 3987](<http://www.ietf.org/rfc/rfc3987.txt>).

\* ``domainHost``  
(boolean, false)

If set to ``true``, the library will treat the ``host`` component as a domain name, and convert IDNs (International Domain Names) as per [RFC 5891](<http://www.ietf.org/rfc/rfc5891.txt>).

### ## Scheme Extendable

URI.js supports inserting custom [scheme](http://en.wikipedia.org/wiki/URI\_scheme) dependent processing rules. Currently, URI.js has built in support for the following schemes:

- \* http \[[RFC 2616](http://www.ietf.org/rfc/rfc2616.txt)\]
- \* https \[[RFC 2818](http://www.ietf.org/rfc/rfc2818.txt)\]
- \* mailto \[[RFC 6068](http://www.ietf.org/rfc/rfc6068.txt)\]
- \* urn \[[RFC 2141](http://www.ietf.org/rfc/rfc2141.txt)\]
- \* urn:uuid \[[RFC 4122](http://www.ietf.org/rfc/rfc4122.txt)\]

### ### HTTP Support

```
URI.equal("HTTP://ABC.COM:80", "http://abc.com/") === true
```

### ### Mailto Support

```
URI.parse("mailto:alpha@example.com,bravo@example.com?subject=SUBSCRIBE&body=Sign%20me%20up!");  
//returns:  
//{  
// scheme : "mailto",  
// to : ["alpha@example.com", "bravo@example.com"],  
// subject  
// : "SUBSCRIBE",  
// body : "Sign me up!"  
//}
```

```
URI.serialize({  
  scheme : "mailto",  
  to : ["alpha@example.com"],  
  subject : "REMOVE",  
  body : "Please remove me",  
  headers : {  
    cc : "charlie@example.com"  
  }  
}) ===  
"mailto:alpha@example.com?cc=charlie@example.com&subject=REMOVE&body=Please%20remove%20me"
```

### ### URN Support

```
URI.parse("urn:example:foo");  
//returns:  
//{  
// scheme : "urn",  
// nid : "example",  
// nss : "foo",  
//}
```

### #### URN UUID Support

```
URI.parse("urn:uuid:f81d4fae-7dec-11d0-a765-00a0c91e6bf6");
//returns:
//{{
// scheme : "urn",
// nid : "example",
// uuid : "f81d4fae-7dec-11d0-a765-00a0c91e6bf6",
//}}
```

## ## Usage

To load in a browser, use the following tag:

```
<script type="text/javascript" src="uri-js/dist/es5/uri.all.min.js"></script>
```

To load in a CommonJS (Node.js) environment, first install with npm by running on the command line:

```
npm install uri-js
```

Then, in your code, load it using:

```
const URI = require("uri-js");
```

If you are

writing your code in ES6+ (ESNEXT) or TypeScript, you would load it using:

```
import * as URI from "uri-js";
```

Or you can load just what you need using named exports:

```
import { parse, serialize, resolve, resolveComponents, normalize, equal, removeDotSegments, pctEncChar,
pctDecChars, escapeComponent, unescapeComponent } from "uri-js";
```

## ## Breaking changes

### ### Breaking changes from 3.x

URN parsing has been completely changed to better align with the specification. Scheme is now always `urn`, but has two new properties: `nid` which contains the Namespace Identifier, and `nss` which contains the Namespace Specific String. The `nss` property will be removed by higher order scheme handlers, such as the UUID URN scheme handler.

The UUID of a URN can now be found in the `uuid` property.

### ### Breaking changes from 2.x

URI validation has been removed as it was slow, exposed a vulnerability, and was generally not useful.

### Breaking changes from 1.x

The `errors` array on parsed components is now an `error` string.

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Found in path(s):

\* /opt/cola/permits/1110634955\_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/README.md

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/\*

\* QUnit - A JavaScript Unit Testing Framework

\*

\* <http://docs.jquery.com/QUnit>

\*

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\* Dual licensed under the MIT (MIT-LICENSE.txt)

\* and GPL (GPL-LICENSE.txt) licenses.

\*/

/\*\*

\* jsDump

```
* Copyright (c) 2008 Ariel Flesler - aflesler(at)gmail(dot)com | http://flesler.blogspot.com
* Licensed under BSD (http://www.opensource.org/licenses/bsd-license.php)
* Date: 5/15/2008
* @projectDescription Advanced and extensible data dumping for Javascript.
* @version 1.0.0
* @author Ariel Flesler
* @link {http://flesler.blogspot.com/2008/05/jsdump-pretty-dump-of-any-javascript.html}
*/
```

Found in path(s):

```
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/tests/qunit.js
```

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```
/** @license URI.js v4.2.1 (c) 2011 Gary Court. License: http://github.com/garycourt/uri-js */
/**
```

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```
*/
```

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\* /opt/cola/permits/1110634955\_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/es5/uri.all.js

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\* /opt/cola/permits/1110634955\_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/src/uri.ts

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/\*\* @license URI.js v4.2.1 (c) 2011 Gary Court. License: <http://github.com/garycourt/uri-js> \*/



Found in path(s):

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```
{"version":3,"sources":["../../src/util.ts","../../src/regexps-  
uri.ts","../../node_modules/punycode/punycode.es6.js","../../src/uri.ts","../../src/schemes/mailto.ts","../../src/regexps-  
iri.ts","../../src/schemes/http.ts","../../src/schemes/https.ts","../../src/schemes/urn.ts","../../src/schemes/urn-  
uuid.ts","../../src/index.ts"],"names":["merge","sets","Array","_len","_key","arguments","length","slice","xl","x","joi  
n","subexp","str","typeof","o","undefined","Object","prototype","toString","call","split","pop","shift","toLowerCas  
e","toUpperCase","toArray","obj","setInterval","assign","target","source","key","buildExps","isIRI","HEXDIG$$","  
PCT_ENCODED$","SUB_DELIMS$$","RESERVED$$","UCSCHAR$$","DEC_OCTET_RELAXED$","H16$","  
LS32$","IPV4ADDRESS$","IPV6ADDRESS1$","IPV6ADDRESS2$","IPV6ADDRESS3$","IPV6ADDRESS4$","  
IPV6ADDRESS5$","IPV6ADDRESS6$","IPV6ADDRESS7$","IPV6ADDRESS8$","IPV6ADDRESS9$","ZONE  
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"value","charCodeAt","extra","push","pctEncChar","chr","c","pctDecChars","newStr","i","il","parseInt","substr","S  
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"_normalizeIPv6","IPV6ADDRESS","_matches2","zone","reverse","last","_addressToLowercase$2","first","firstF  
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"acc","field","index","lastLongest","longestZeroFields","sort","a","b","newHost","newFirst","newLast","parse","uriS  
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"base","relative","skipNormalization","tolerant","lastIndexOf","resolve","baseURI","relativeURI","schemelessOpti  
ons","normalize","uri","equal","uriA","uriB","escapeComponent","ESCAPE","unescapeComponent","maxInt","reg  
exPunycode","regexNonASCII","floor","Math","stringFromCharCode","ucs2encode","fromCodePoint","apply","to  
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```

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ASvF,YAAW4E,EAASW,KAAOhB,OAAOK,EAASW,MAAMIC,QAAQwB,EAASM,YAAAL,GAALBtE,cAAc

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CtB,IAAIF,EAAM3E,MAAM8E,MACdH,EAAMtG,QAAQyG,GAAM,OACrBxJ,UACD,IAAc,MAAVqJ,GAA2B ,OAAVA,IACnB,OACF,IACAI,GAACKJ,EAAM3E,MAAMgF,QACnBD,OAKG,IAAIE,OAAM,uCAJVC,GAAIH, EAAG,KACLJ,EAAMnK,MAAM0K,EAAE3K,UACfsE,KAAKqG,SAOR1G,GAAO7D,KAAK,IAGpB,QAAA w K,GAA0BvF,MAA0BwD,GAAPd9I,UAAAC,OAAA,GAAAD,UAAA,KAAAU,UAAAV,UAAA,MACOuF,EAA YuD,EAAQC,IAAMC,EAAeC,EACzCe,KAGAR,EAAGBC,GAASX,EAAQID,QAAUN,EAAWM,QAAU,IAAI1E ,kBAGtEsI,GAAiBA,EAACqB,WAAWtB,EAACqB,UAAUvF,EAAyWd,GAE9ExD,EAASW,QAEVv,EAAS0B, YAAyU,KAAKtC,EAASW,WAKpC,IAAI6C,EAAQa,YAAeH,GAAiBA,EAACg,iBAGID1D,KAAS6C,EAAQC ,IAAmGa,EAASkB,UAAUxG,EAASW,MAA3H2D,EAASC,QAAQvE,EAASW,KAAKIC,QAAQwB,EAASM,Y AAaIb,GAAazD,eAC7G,MAAO4I,KACG1G,MAAQkC,EAAWIC,OAAS,+CAAKD0F,EAAQC,IAAgB,UAAV,S AAuB,kBAaOBe,IAMzHxE,EAAYC,GAEd,WAAtBuD,EAAQI,WAA0B5D,EAASW,WACtCrB,KAAKe,EAAS W,M,UACHBrB,KAAK,SAGVwG,GAAYhB,EAaObzE,EAAyWd,MAC9CiC,IAAcRk,YACS,WAAtBoI,EAAQI,aA CD3E,KAAK,QAGNA,KAAKwG,GAEXzF,EAAWa,MAASc,MAA9Bb,EAAWa,KAAK6E,OAAO,MACnCzG,K AAK,MAIbe,EAAWa,OAASzF,UAAW,IAC9BkK,GAAItF,EAAWa,IAEd2C,GAAQmC,cAAkBzB,GAAkBA,EA AcyB,iBAC1Db,EAakBQ,IAGnBG,IAAcRk,cACbkK,EAAE7G,QAAQ,QAAS,WAGdQ,KAAKqG,SAGZtF,GAA WgB,QAAU5F,cACd6D,KAAK,OACLA,KAAKe,EAAWgB,QAGvBhB,EAASwB,WAAa9F,cACjB6D,KAAK,O ACLA,KAAKe,EAASwB,WAGpBwD,EAU3J,KAAK,IAGvB,QAAA6K,GAAkCC,EAaOBc,MAAwBtC,GAA9 E9I,UAAAC,OAAA,GAAAD,UAAA,KAAAU,UAAAV,UAAA,MAAUgqL,EAAvGrL,UAAA,GACOWB,WAED 6J,OACGzC,EAAMiC,EAAMrC,GAAUA,KAC5BF,EAAMiC,EAAUO,EAUUtC,GAAUA,MAEtCA,O AELA,EAAQwC,UAAyF,EAASxG,UAC1BA,OAASwF,EAASxG,SAEIBG,SAAWqF,EAASrF,WACpBE,KAAO mF,EAASnF,OACHBoD,KAAO+B,EAAS/B,OACHBID,KAAOiE,EAakBgB,EAASjF,MAAQ,MAC1CG,MAAQ8 E,EAAS9E,QAEPB8E,EAASrF,WAAarF,WAAa0K,EAASnF,OAASvF,WAAa0K,EAAS/B,OAAS3I,aAEhfqF,SA AWqF,EAASrF,WACpBE,KAAOmF,EAASnF,OACHBoD,KAAO+B,EAAS/B,OACHBID,KAAOiE,EAakBgB,E AASjF,MAAQ,MAC1CG,MAAQ8E,EAAS9E,QAEnB8E,EAASjF,MAQmB,MAA5BiF,EAASjF,KAAK6E,OAA O,KACjB7E,KAAOiE,EAakBgB,EAASjF,OAEpCgF,EAAKpF,WAAarF,WAAayK,EAAKIF,OAASvF,WAAayK ,EAAK9B,OAAS3I,WAAeyK,EAAKhF,KAERfgF,EAAKhF,OAGTA,KAAOGF,EAAKhF,KAAKjG,MAAM,EAA GiL,EAAKhF,KAAKoF,YAAy,KAAO,GAAKH,EAASjF,OAFrEA,KAAOiF,EAASjF,OAFhBA,KAAO,IAAMiF, EAASjF,OAMvBA,KAAOiE,EAakB5I,EAAO2E,SAEjCG,MAAQ8E,EAAS9E,UAnBjBH,KAAOGF,EAAKhF,K ACfiF,EAAS9E,QAAU5F,YACf4F,MAAQ8E,EAAS9E,QAejBA,MAAQ6E,EAAK7E,SakBfP,SAAWoF,EAAKp F,WACHBE,KAAOkF,EAAKIF,OACZoD,KAAO8B,EAAK9B,QAEBzD,OAASuF,EAAKvF,UAGfY,SAAW4E,E AAS5E,SAEPBhF,EAGR,QAAAGK,GAAwBC,EAAGBC,EAaOB5C,MACrD6C,GAAOBpK,GAASqE,OAAS,QA AUkD,SAC/C+B,GAAUK,EAakBtC,EAAM6C,EAASE,GAAOB/C,EAAM8C,EAaAC,GAAOBa,GAAmB,GAAO A,GAKxI,QAAAC,GAA0BC,EAAS/C,SACf,gBAAR+C,KACJhB,EAUjC,EAAMiD,EAAK/C,GAAUA,GACX, WAAhBtI,EAAOqL,OACXjD,EAAMiC,EAAYBgB,EAAK/C,GAAUA,IAG9C+C,EAKR,QAAAC,GAASBC,EAA UC,EAAUID,SACrB,gBAATiD,KACHIB,EAUjC,EAAMmD,EAAMjD,GAAUA,GACZ,WAAjBtI,EAAOuL,O ACVIB,EAAYBkB,EAAMjD,IAGnB,gBAATkD,KACHnB,EAUjC,EAAMoD,EAAMID,GAAUA,GACZ,WAAj BtI,EAAOwL,OACVnB,EAAYBmB,EAAMID,IAGhCiD,IAASC,EAGjB,QAAAC,GAAgC1L,EAAYuI,SACpCvI, IAAOA,EAAIM,WAAWkD,QAAU+E,GAAYA,EAAQC,IAA4BC,EAaakD,OAAnCjD,EAaaiD,OAa+B1H,GA G9G,QAAA2H,GAakC5L,EAAYuI,SACtCvI,IAAOA,EAAIM,WAAWkD,QAAU+E,GAAYA,EAAQC,IAAIcC, EAAanD,YAAxCoD,EAAapD,YAAyCIB,GC1exH,QAGAA,GAA0BjF,MACnBkF,GAASd,EAAYpE,SACIBkF,G AAOC,MAAMC,IAAOBF,EAANIF,EHmBrC,GAAA0I,GAAetH,GAAU,GirFzBqH,EAaerH,GAAU,2iBHAnByK ,EAAS,WAAtC,EAAGB,QACHBC,EAAGB,aACHbtI,EAakB,4BAGIBT,YACO,8DACC,iEACI,iBAKZgJ,EAAQC ,KAAKD,MACbE,EAAGBxH,OAaOC,aAsG5BwH,EAaA,SAAJJ,SAASwB,QAAO0H,cAAPC,MAAA3H,OA A4H,EAawBpJ,KAW9CqJ,EAae,SAASC,SACzBA,GAAY,GAAO,GACfA,EAAY,GAehBA,EAAY,GAAO,GA CfA,EAAY,GAehBA,EAAY,GAAO,GACfA,EAAY,GAJrJ,IAiKPC,EAae,SAASC,EAaOC,SAG7BD,GAAQ,G AAK,IAAMA,EAAQ,MAAGB,GAARC,IAAc,IAQnDC,EAAQ,SAASC,EAaOC,EAAWC,MACpCC,GAAI,QAC AD,EAAYf,EAAMa,EA1Kd,KA0K8BA,GAAS,KAC1Cb,EAAMa,EAAQC,GACOD,EAAQI,IAA2BD,GahLrD,K AiLHhB,EAAMa,EA3JMjC,UA6JdoB,GAAMgB,EAAI,GAASBH,GAASA,EALpC,MA0LPK,EAAS,SAASpD, MAEjBnG,MACAwJ,EAACrD,EAAMpK,OACtB4E,EAAI,EACJ8I,EA5LY,IA6LZC,EA9Le,GAoMfC,EAAQxD,

EAAMkB, YAlMD, IAmMbsC, GAAQ, MACH, OAGJ, GAAIC, GAAI, EAAGA, EAAID, IAASC, EAExBzD, EAAMhG, WAAWYJ, IAAM, OACpB, eAEAvJ, KAAK8F, EAAMhG, WAAWYJ, QAMzB, GAAI3F, GAAQ0F, EAAQ, EAAIA, EAAQ, EAAI, EAAG1F, EAAQuF, GAAwC, KAQtF, GADDK, GAAOIJ, EACFmJ, EAAI, EAAGT, EAjOL, IAiOmCA, GAjOnC, GAiO8C, CAEPDpF, GAASuF, KACN, oBAGDT, GAAQH, EAAazC, EAAMhG, WAAW8D, OAEc8E, GAzOM, IAyOWA, EAAQV, GAAOH, EAASvH, GAAKmJ, OAC3C, eAGFf, EAAQe, KACPC, GAAIV, GAAKK, EA7OL, EA6OoBL, GAAKK, EA5OzB, GAAA, GA4O8CL, EAAIK, KAExDX, EAAQgB, WAINC, GApPI, GAoPgBD, CActB D, GAAIzB, EAAMH, EAAS8B, MACHb, eAGFA, KAIAC, GAAMjK, EAAOjE, OAAS, IACrBkN, EAAMtI, EAAIkJ, EAAMI, EAAa, GAARJ, GAIXbxB, EAAM1H, EAAIsJ, GAAO/B, EAASuB, KACvB, eAGFpB, EAAM1H, EAAIsJ, MACVA, IAGEC, OAAOvJ, IAAK, EAAG8I, SAIHb1I, QAAO0H, cAAPC, MAAA3H, OAAwBf, IAU1BmK, EAAS, SAAShE, MACjBnG, QAGED, EAAWoG, MAGfQD, GAACrD, EAAMpK, OAGpB0N, EA5RY, IA6RZP, EAAQ, EACRQ, EA/Re, oCAkSnBU, KAA2BjE, EAA3BkE, OAAAC, cAAAC, GAAAH, EAAAI, EAAAC, QAAAC, MAAAH, GAAA, EA AkC, IAAvBI, GAAuBP, EAAAIK, KAC7ByK, GAAe, OACXtK, KAAKkI, EAAMBoC, 2FAI7BC, GAAc5K, EAAOjE, OACrB8O, EAAiBD, MAMjBA, KACIvK, KA9SS, KAKTVwK, EAAiBrB, GAAa, IAihCsB, GAAI5C, mCACR6C, KA A2B5E, EAA3BkE, OAAAC, cAAAu, GAAAD, EAAAE, EAAAR, QAAAC, MAAAM, GAAA, EAakC, IAAvBL, GA AuBI, EAAA7K, KAC7ByK, IAAgBIB, GAAKkB, EAAeG, MACnCH, OFAMAo, GAAwBL, EAAiB, CAC3CC, GAAI rB, EAAIpB, GAAOH, EAASgB, GAASgC, MAC9B, gBAGGJ, EAAIrB, GAAKyB, IACfJ, uCAEJK, KAA2BhF, EAA3 BkE, OAAAC, cAAAc, GAAAD, EAAAE, EAAAZ, QAAAC, MAAAu, GAAA, EAakC, IAAvBT, GAAuBQ, EAAAJL, SAC7ByK, EAAelB, KAAOP, EAAQhB, KAC3B, YAEHyC, GAAgBIB, EAAG, KAGjB, GADD6B, GAAIpC, EACCG, EA rVA, IAqV8BA, GARv9B, GAqVyC, IAC3CU, GAAIV, GAAKK, EA rVP, EAqVsBL, GAAKK, EA pV3B, GAAA, G AoVgDL, EAAIK, KACx4B, EAAIvB, WAGFwB, GAAUD, EAAIvB, EACdC, EA3VE, GA2VkBd, IACnB1J, KACN kI, EAAMBo, EAAaiB, EAAIwB, EAAUvB, EAAY, OAEvD3B, EAAMkD, EAAUvB, KAGd3J, KAAKkI, EAAMBo, E AAawC, EAAG, OACxCrC, EAAMC, EAAOgC, EAAuBL, GAAkBD, KACrD, IACNC, yFAIF3B, IACAO, QAGIzJ, G AAO7D, KAAK, KAcDyK, EAAY, SAAST, SACnBzG, GAAUyG, EAAO, SAASxG, SACzBwI, GAAc1E, KAAK9D, G ACvB4J, EAAO5J, EAAO3D, MAAM, GAAGgB, eACvB2C, KAeCgG, EAAU, SAASQ, SACjBzG, GAAUyG, EAAO, SAASxG, SACzByI, GAAc3E, KAAK9D, GACvB, OAASwK, EAAOxK, GACHBA, KAOC+F, WAMM, qBASA3F, SA CAyI, UAEDe, SACAY, UACCx, YACEiB, GC5VDrB, KA2IPN, EAAY, KIACZC, EAA4C, GAAI1D, MAAM, SAAU, KAAOhF, UAoHvE4J, EAAO, WACPC, EAAO, cACPC, GAAO, gBAEPE, GAAO, yBG1VPgF, WACI, mBAEI, QAEL, SAAUpK, EAA0BwD, SAEtCxD, GAAWW, SACJ7C, MAAQkC, EAAWIC, OAAS, +BAGjCkC, aAGI, SAAUA, EAA 0BwD, SAE3CxD, GAAW+D, QAAsD, UAA5CpE, OAAOK, EAAWM, QAAQ1E, cAA4B, GAAK, MAA4B, KAApBo E, EAAW+D, SAC3FA, KAAO3I, WAIId4E, EAAWa, SACJA, KAAO, KAOZb, IC5BHOk, WACI, mBACIC, GAAKhG, iBACVgG, GAAK/G, gBACD+G, GAAK9E, WHSZ+E, MAIA5M, GAAe, mGACfnB, GAAW, cACXC, GAAexB, EAA OA, EAAO, sBAA6BuB, GAAWA, GAAW, IAAMA, GAAWA, IAAY, IAAMvB, EAAO, 0BAAiCuB, GAAWA, IAAY, IAAMvB, EAAO, IAAMuB, GAAWA, KAehNgO, GAAUIQ, EADA, 6DACe, aAqBzBgG, GAAa, GAAI1C, QAAOD, G AAAC, KACtC6C, GAAc, GAAI5C, QAAOnB, GAAc, KACvCgO, GAAiB, GAAI7M, QAAOtD, EAAM, MAzBxB, wDA yBwC, QAAS, QAASkQ, IAAU, KAE9EE, GAAa, GAAI9M, QAAOtD, EAAM, MAAOqD, GAjBrB, uCAiBmD, KACn EgN, GAAcD, GASdL, WACI, eAED, SAAUpK, EAA0BwD, MACrCmH, GAAmB3K, EACnB4K, EAAKD, EAAiBC, GAAMD, EAAiB9J, KAAO8J, EAAiB9J, KAAKpF, MAAM, aACrEoF, KAAOzF, UAEpBuP, EAAiB3J, MAAO, KAKt B, GAJD6J, IAAiB, EACfC, KACAC, EAAUJ, EAAiB3J, MAAMvF, MAAM, KAEpCX, EAAI, EAAGD, EAAKkQ, EA AQpQ, OAAQG, EAAID, IAAMC, EAAG, IAC3CkQ, GAASD, EAAQjQ, GAAGW, MAAM, YAEExBuP, EAAO, QACT , SAEC, GADCC, GAAUD, EAAO, GAAGvP, MAAM, KACvBX, EAAI, EAAGD, EAAKoQ, EAAQtQ, OAAQG, EAAI D, IAAMC, IAC3CmE, KAAKgM, EAAQnQ, cAGb, YACaoQ, QAAUrE, EAAkBmE, EAAO, GAAIxH, aAEpD, SACa2 H, KAAOIE, EAAkBmE, EAAO, GAAIxH, oBAGpC, IACTqD, EAAkBmE, EAAO, GAAIxH, IAAYqD, EAAkBmE, EA AO, GAAIxH, IAK7EqH, IAAgBF, EAAiBG, QAAUA, KAG/B9J, MAAQ5F, cAEpB, GAAIN, GAAI, EAAGD, EAAK+ P, EAAGjQ, OAAQG, EAAID, IAAMC, EAAG, IACtCsQ, GAAOR, EAAG9P, GAAGW, MAAM, UAEpB, GAAKOL, E AAKBuE, EAAK, IAE5B5H, EAAQY, iBAQP, GAAKyC, EAAkBuE, EAAK, GAAI5H, GAAS5H, yBALx, GAAK0I, EAASC, QAAQsC, EAAkBuE, EAAK, GAAI5H, GAAS5H, eAC9D, MAAO4I, KACS1G, MAAQ6M, EAAiB7M, OAA S, 2EAA6E0G, IAM/H1J, GAAKsQ, EAAKrQ, KAAK, WAGZ4P, cAGI, SAAUA, EAAMCnH, MACIDxD, GAAa2K, E ACbC, EAAK9O, EAAQ6O, EAAiBC, OACHCA, EAAI, KACF, GAAI9P, GAAI, EAAGD, EAAK+P, EAAGjQ, OAAQ



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merge(ALPHA$$, DIGIT$$, "[\[\|\+|\|-\|\|\.]") + "*" ), \n\t\tUSERINFO$ = subexp(subexp(PCT_ENCODED$ +
"\|" + merge(UNRESERVED$$, SUB_DELIM$$, "[\[\|:]")) + "*" ), \n\t\tDEC_OCTETS$ =
subexp(subexp("\25[0-5]") + "\|" + subexp("\2[0-4]" + DIGIT$$) + "\|" + subexp("\1" + DIGIT$$ + DIGIT$$) +
"\|" + subexp("\[1-9]" + DIGIT$$) + "\|" + DIGIT$$), \n\t\tDEC_OCTET_RELAXED$ = subexp(subexp("\25[0-
5]"))
+ "\|" + subexp("\2[0-4]" + DIGIT$$) + "\|" + subexp("\1" + DIGIT$$ + DIGIT$$) + "\|" + subexp("\0?[1-9]" +
DIGIT$$) + "\0?0?" + DIGIT$$), //relaxed parsing rules\n\t\tIPV4ADDRESS$ =
subexp(DEC_OCTET_RELAXED$ + "\|\|\|." + DEC_OCTET_RELAXED$ + "\|\|\|." +
DEC_OCTET_RELAXED$ + "\|\|\|." + DEC_OCTET_RELAXED$), \n\t\tH16$ = subexp(HEXDIG$$ +
"\{1,4\}"), \n\t\tLS32$ = subexp(subexp(H16$ + "\|\|\|:" + H16$) + "\|" + IPV4ADDRESS$), \n\t\tIPV6ADDRESS1$
= subexp(
subexp(H16$ + "\|\|\|:" + "\{6\}" + LS32$), // 6(
h16 \":") ls32\n\t\tIPV6ADDRESS2$ = subexp(
"\|\|\|:\|\|\|:" + subexp(H16$ + "\|\|\|:")
+ "\{5\}" + LS32$), // \":\" 5( h16 \":\" ) ls32\n\t\tIPV6ADDRESS3$ = subexp(subexp(
H16$ + "\|\|\|:\|\|\|:" + subexp(H16$ + "\|\|\|:" + "\{4\}" + LS32$), // h16 \":\"
4( h16 \":\" ) ls32\n\t\tIPV6ADDRESS4$ = subexp(subexp(subexp(H16$ + "\|\|\|:" + "\{0,1\}" + H16$) +
"\|\|\|:\|\|\|:" + subexp(H16$ + "\|\|\|:" + "\{3\}" + LS32$), // *1( h16 \":\" ) h16 \":\" 3( h16 \":\" )
ls32\n\t\tIPV6ADDRESS5$ = subexp(subexp(subexp(H16$ + "\|\|\|:" + "\{0,2\}" + H16$) + "\|\|\|:\|\|\|:" +
subexp(H16$ + "\|\|\|:" + "\{2\}" + LS32$), // *2( h16 \":\" ) h16 \":\" 2( h16 \":\" ) ls32\n\t\tIPV6ADDRESS6$
= subexp(subexp(subexp(subexp(H16$ + "\|\|\|:" + "\{0,3\}" + H16$) + "\|\|\|:\|\|\|:" + H16$ + "\|\|\|:" +
LS32$), // *3( h16 \":\" ) h16 \":\" h16 \":\" ls32\n\t\tIPV6ADDRESS7$ = subexp(subexp(subexp(H16$ + "\|\|\|:" +
"\{0,4\}" + H16$) + "\|\|\|:\|\|\|:" + LS32$), // *4( h16 \":\" ) h16 \":\"
ls32\n\t\tIPV6ADDRESS8$ = subexp(subexp(subexp(subexp(H16$ + "\|\|\|:" + "\{0,5\}" + H16$) + "\|\|\|:\|\|\|:"
+ H16$), // *5( h16 \":\" ) h16 \":\" h16\n\t\tIPV6ADDRESS9$
= subexp(subexp(subexp(subexp(H16$ + "\|\|\|:" + "\{0,6\}" + H16$) + "\|\|\|:\|\|\|:"
), // *6( h16
\":\" ) h16 \":\" \":\" \n\t\tIPV6ADDRESS$ = subexp([IPV6ADDRESS1$, IPV6ADDRESS2$, IPV6ADDRESS3$,
IPV6ADDRESS4$, IPV6ADDRESS5$, IPV6ADDRESS6$, IPV6ADDRESS7$, IPV6ADDRESS8$,
IPV6ADDRESS9$].join("\|")), \n\t\tZONEID$ = subexp(subexp(UNRESERVED$$ + "\|" + PCT_ENCODED$) +
"+"), //RFC 6874\n\t\tIPV6ADDRZ$ = subexp(IPV6ADDRESS$ + "\|\|\|\%25" + ZONEID$), //RFC
6874\n\t\tIPV6ADDRZ_RELAXED$ = subexp(IPV6ADDRESS$ + subexp("\|\|\|\%25\|\|\|\%(?!)" + HEXDIG$$ +
"\{2\}")) + ZONEID$), //RFC 6874, with relaxed parsing rules\n\t\tIPV6FUTURE$ = subexp("\[vV]" + HEXDIG$$
+ "\+|\|\|." + merge(UNRESERVED$$, SUB_DELIM$$, "[\[\|:]")) + "+"), \n\t\tIP_LITERAL$ = subexp("\|\|\|\|["
+ subexp(IPV6ADDRZ_RELAXED$ + "\|" + IPV6ADDRESS$ + "\|" + IPV6FUTURE$) + "\|\|\|\|)", //RFC
6874\n\t\tREG_NAME$ = subexp(subexp(PCT_ENCODED$ + "\|" + merge(UNRESERVED$$,
SUB_DELIM$$)) +
"*"), \n\t\tHOST$ = subexp(IP_LITERAL$ + "\|" + IPV4ADDRESS$ + "\"(?!)" + REG_NAME$ + "\)" + "\|" +
REG_NAME$), \n\t\tPORT$ = subexp(DIGIT$$ + "*" ), \n\t\tAUTHORITY$ = subexp(subexp(USERINFO$ +
"@") + "\?" + HOST$ + subexp("\|\|\|:" + PORT$) + "\?"), \n\t\tPCHAR$ = subexp(PCT_ENCODED$ + "\|" +
merge(UNRESERVED$$, SUB_DELIM$$, "[\[\|\|\|@]")), \n\t\tSEGMENT$ = subexp(PCHAR$ +
"*"), \n\t\tSEGMENT_NZ$ = subexp(PCHAR$ + "+"), \n\t\tSEGMENT_NZ_NC$ =
subexp(subexp(PCT_ENCODED$ + "\|" + merge(UNRESERVED$$, SUB_DELIM$$, "[\[\|\|\|@]")) +
"+"), \n\t\tPATH_ABEMPTY$ = subexp(subexp("\|\|\|\|/" + SEGMENT$) + "*" ), \n\t\tPATH_ABSOLUTE$ =
subexp("\|\|\|\|/" + subexp(SEGMENT_NZ$ + PATH_ABEMPTY$) + "\?"), //simplified\n\t\tPATH_NOSCHEMES
= subexp(SEGMENT_NZ_NC$ + PATH_ABEMPTY$), //simplified\n\t\tPATH_ROOTLESS$ =
subexp(SEGMENT_NZ$ + PATH_ABEMPTY$), //simplified\n\t\tPATH_EMPTY$ = "\"(?!)" + PCHAR$ +
"\)", \n\t\tPATH$ = subexp(PATH_ABEMPTY$ + "\|" + PATH_ABSOLUTE$ + "\|" + PATH_NOSCHEMES
+ "\|" + PATH_ROOTLESS$ + "\|" + PATH_EMPTY$), \n\t\tQUERY$ = subexp(subexp(PCHAR$ + "\|" +
merge("\|\|\|\|\|\|\|?", IPRIVATE$$)) + "*" ), \n\t\tFRAGMENTS$ = subexp(subexp(PCHAR$ + "\|\|\|\|\|\|\|?)" +
"*"), \n\t\tHIER_PART$ = subexp(subexp("\|\|\|\|\|\|\|/" + AUTHORITY$ + PATH_ABEMPTY$) + "\|" +

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PATH_ABSOLUTE$ + "|" + PATH_ROOTLESS$ + "|" + PATH_EMPTY$),\n\tURI$ = subexp(SCHEMES$ +
"\\\\:" + HIER_PART$ + subexp("\\\\?" + QUERY$) + "?" + subexp("\\\\#" + FRAGMENTS$) +
"?",\n\tRELATIVE_PART$ = subexp(subexp("\\\\|/" + AUTHORITY$ + PATH_ABEMPTY$) + "|" +
PATH_ABSOLUTE$ + "|" + PATH_NOSCHEMES$ + "|" + PATH_EMPTY$),\n\tRELATIVE$ =
subexp(RELATIVE_PART$ + subexp("\\\\?" + QUERY$) + "?" + subexp("\\\\#" + FRAGMENTS$) +
"?",\n\tURI_REFERENCES$ = subexp(URI$ + "|" + RELATIVE$),\n\tABSOLUTE_URI$ =
subexp(SCHEMES$ + "\\\\:" + HIER_PART$ + subexp("\\\\?" + QUERY$) + "?" + "\n\n\tGENERIC_REF$ =
"^((" + SCHEMES$ + ")\\\\:" + subexp(subexp("\\\\|/" +
+ subexp("(" + USERINFO$ + ")@") + "?" + "(" + HOST$ + ")") + subexp("\\\\:(" + PORT$ + ")") + "?" +
"?" + "(" + PATH_ABEMPTY$ + "|" + PATH_ABSOLUTE$ + "|" + PATH_ROOTLESS$ + "|" +
PATH_EMPTY$ + ")") + subexp("\\\\?(" + QUERY$ + ")") + "?" + subexp("\\\\#(" + FRAGMENTS$ + ")") +
"?" + "\n\tRELATIVE_REF$ = "^(0}" + subexp(subexp("\\\\|/" + subexp("(" + USERINFO$ + ")@") +
"?" + "(" + HOST$ + ")") + subexp("\\\\:(" + PORT$ + ")") + "?" + "?" + "(" + PATH_ABEMPTY$ + "|" +
PATH_ABSOLUTE$ + "|" + PATH_NOSCHEMES$ + "|" + PATH_EMPTY$ + ")") + subexp("\\\\?(" +
QUERY$ + ")") + "?" + subexp("\\\\#(" + FRAGMENTS$ + ")") + "?" + "\n\tABSOLUTE_REF$ = "^((" +
SCHEMES$ + ")\\\\:" + subexp(subexp("\\\\|/" + subexp("(" + USERINFO$ + ")@") + "?" + "(" + HOST$ +
")") + subexp("\\\\:(" + PORT$ + ")") + "?" + "?" + "(" + PATH_ABEMPTY$ + "|" + PATH_ABSOLUTE$ +
"|" + PATH_ROOTLESS$ + "|" + PATH_EMPTY$ + ")") + subexp("\\\\?(" +
+ QUERY$ + ")") + "?" + "\n\tSAMEDOC_REF$ = "^((" + subexp("\\\\#(" + FRAGMENTS$ + ")") +
"?" + "\n\tAUTHORITY_REF$ = "^((" + USERINFO$ + ")@") + "?" + "(" + HOST$ + ")") +
subexp("\\\\:(" + PORT$ + ")") + "?" + "\n\n\treturn {\n\t\tNOT_SCHEME : new RegExp(merge("[^]",
ALPHA$$, DIGIT$, "[\\\\+\\\\-\\\\.\\\\]"), "g"),\n\t\tNOT_USERINFO : new RegExp(merge("[^\\\\%\\\\:]"),
UNRESERVED$$, SUB_DELIMS$$), "g"),\n\t\tNOT_HOST : new RegExp(merge("[^\\\\%\\\\[\\\\]\\\\:]"),
UNRESERVED$$, SUB_DELIMS$$), "g"),\n\t\tNOT_PATH : new RegExp(merge("[^\\\\%\\\\\\\\\\\\\\\\@]"),
UNRESERVED$$, SUB_DELIMS$$), "g"),\n\t\tNOT_PATH_NOSHEME : new
RegExp(merge("[^\\\\%\\\\\\\\\\\\\\\\@]"), UNRESERVED$$, SUB_DELIMS$$), "g"),\n\t\tNOT_QUERY : new
RegExp(merge("[^\\\\%]", UNRESERVED$$, SUB_DELIMS$$, "[\\\\:\\\\@\\\\\\\\\\\\?]", IPRIVATE$),
"g"),\n\t\tNOT_FRAGMENT : new RegExp(merge("[^\\\\%]", UNRESERVED$$, SUB_DELIMS$$,
"[\\\\:\\\\@\\\\\\\\\\\\?]", "g"),\n\t\tESCAPE
: new RegExp(merge("[^]", UNRESERVED$$, SUB_DELIMS$$), "g"),\n\t\tUNRESERVED : new
RegExp(UNRESERVED$$, "g"),\n\t\tOTHER_CHARS : new RegExp(merge("[^\\\\%]", UNRESERVED$$,
RESERVED$$), "g"),\n\t\tPCT_ENCODED : new RegExp(PCT_ENCODED$, "g"),\n\t\tIPV4ADDRESS : new
RegExp("^((" + IPV4ADDRESS$ + ")$"),\n\t\tIPV6ADDRESS : new RegExp("^(\\\\\\\\??" + IPV6ADDRESS$ +
"\\)" + subexp(subexp("\\\\\\%25\\\\\\\\%(?)" + HEXDIG$$ + "{2}") + "(" + ZONEID$ + ")") + "?" +
"?" + "\n\n\tRFC 6874, with relaxed parsing rules\n\t;\n}\n\nexport default buildExps(false);\n", "use strict;\n\n/** Highest
positive signed 32-bit float value *\nconst maxInt = 2147483647; // aka. 0x7FFFFFFF or 2^31-1\n\n/** Bootstring
parameters *\nconst base = 36;\nconst tMin = 1;\nconst tMax = 26;\nconst skew = 38;\nconst damp = 700;\nconst
initialBias = 72;\nconst initialN = 128; // 0x80\nconst delimiter = '-'; // "\x2D"\n\n/** Regular expressions *\nconst
regexPunycode = /^xn-;/;\nconst regexNonASCII
= /[^\0-\x7E]/; // non-ASCII chars\nconst regexSeparators = /[\x2E\u3002\uFF0E\uFF61]/g; // RFC 3490
separators\n\n/** Error messages *\nconst errors = {\n\t'overflow': 'Overflow: input needs wider integers to
process',\n\t'not-basic': 'Illegal input >= 0x80 (not a basic code point)',\n\t'invalid-input': 'Invalid input'\n};\n\n/**
Convenience shortcuts *\nconst baseMinusTMin = base - tMin;\nconst floor = Math.floor;\nconst
stringFromCharCode = String.fromCharCode;\n\n*-----
*\n\n/**\n * A generic error utility function.\n * @private\n * @param {String} type The error type.\n * @returns
{Error} Throws a `RangeError` with the applicable error message.\n\nfunction error(type) {\n\tthrow new
RangeError(errors[type]);\n}\n\n/**\n * A generic `Array#map` utility function.\n * @private\n * @param {Array}
array The array to iterate over.\n * @param {Function} callback The function that gets called for every

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array\n * item.\n * @returns {Array} A new array of values returned by the callback function.\n *^\nfunction
map(array, fn) {\n\tconst result = [];\n\tlet length = array.length;\n\twhile (length--)\n\t\tresult[length] =
fn(array[length]);\n\t}\n\treturn result;\n\t}\n\n/**\n * A simple `Array#map`-like wrapper to work with domain name
strings or email\n * addresses.\n * @private\n * @param {String} domain The domain name or email address.\n *
@param {Function} callback The function that gets called for every\n * character.\n * @returns {Array} A new
string of characters returned by the callback\n * function.\n *^\nfunction mapDomain(string, fn) {\n\tconst parts =
string.split('@');\n\tlet result = '';\n\tif (parts.length > 1) {\n\t\t// In email addresses, only the domain name should be
punycode. Leave\n\t\t// the local part (i.e. everything up to `@`) intact.\n\t\tresult = parts[0] + '@';\n\t\tstring =
parts[1];\n\t\t}\n\t\t// Avoid `split(regex)` for IE8 compatibility. See #17.\n\t\tstring
= string.replace(regexSeparators, '\\x2E');\n\t\tconst labels = string.split('.');\n\t\tconst encoded = map(labels,
fn).join('.');\n\t\treturn result + encoded;\n\t}\n\n/**\n * Creates an array containing the numeric code points of each
Unicode\n * character in the string. While JavaScript uses UCS-2 internally,\n * this function will convert a pair of
surrogate halves (each of which\n * UCS-2 exposes as separate characters) into a single code point,\n * matching
UTF-16.\n * @see `punycode.ucs2.encode`\n * @see <https://mathiasbynens.be/notes/javascript-encoding>\n *
@memberOf punycode.ucs2\n * @name decode\n * @param {String} string The Unicode input string (UCS-2).\n *
@returns {Array} The new array of code points.\n *^\nfunction ucs2decode(string) {\n\tconst output = [];\n\tlet
counter = 0;\n\tconst length = string.length;\n\twhile (counter < length) {\n\t\tconst value =
string.charCodeAt(counter++);\n\t\tif (value >= 0xD800 && value <= 0xDBFF && counter < length) {\n\t\t\t// It's a
high
surrogate, and there is a next character.\n\t\t\tconst extra = string.charCodeAt(counter++);\n\t\t\tif ((extra &
0xFC00) == 0xDC00) { // Low surrogate.\n\t\t\t\toutput.push(((value & 0x3FF) << 10) + (extra & 0x3FF) +
0x10000);\n\t\t\t\t} else {\n\t\t\t\t// It's an unmatched surrogate; only append this code unit, in case the\n\t\t\t\t// next
code unit is the high surrogate of a surrogate pair.\n\t\t\t\t\toutput.push(value);\n\t\t\t\t\tcounter--;\n\t\t\t\t}\n\t\t\t} else
{\n\t\t\t\toutput.push(value);\n\t\t\t}\n\t\t}\n\t\treturn output;\n\t}\n\n/**\n * Creates a string based on an array of numeric
code points.\n * @see `punycode.ucs2.decode`\n * @memberOf punycode.ucs2\n * @name encode\n * @param
{Array} codePoints The array of numeric code points.\n * @returns {String} The new Unicode string (UCS-2).\n *^\nconst ucs2encode = array => String.fromCodePoint(...array);\n\n/**\n * Converts a basic code point into a
digit/integer.\n * @see `digitToBasic()`\n * @private\n * @param {Number} codePoint The basic numeric
code point value.\n * @returns {Number} The numeric value of a basic code point (for use in\n * representing
integers) in the range `0` to `base - 1`, or `base` if\n * the code point does not represent a value.\n *^\nconst
basicToDigit = function(codePoint) {\n\tif (codePoint - 0x30 < 0x0A) {\n\t\treturn codePoint - 0x16;\n\t}\n\tif
(codePoint - 0x41 < 0x1A) {\n\t\treturn codePoint - 0x41;\n\t}\n\tif (codePoint - 0x61 < 0x1A) {\n\t\treturn
codePoint - 0x61;\n\t}\n\treturn base;\n\t};\n\n/**\n * Converts a digit/integer into a basic code point.\n * @see
`basicToDigit()`\n * @private\n * @param {Number} digit The numeric value of a basic code point.\n * @returns
{Number} The basic code point whose value (when used for\n * representing integers) is `digit`, which needs to be
in the range\n * `0` to `base - 1`. If `flag` is non-zero, the uppercase form is\n * used; else, the lowercase form is
used. The behavior is undefined\n * if `flag` is non-zero and `digit` has no uppercase form.\n *^\nconst digitToBasic = function(digit, flag) {\n\t// 0..25 map to ASCII a..z or A..Z\n\t// 26..35 map to ASCII
0..9\n\treturn digit + 22 + 75 * (digit < 26) - ((flag != 0) << 5);\n\t};\n\n/**\n * Bias adaptation function as per section
3.4 of RFC 3492.\n * https://tools.ietf.org/html/rfc3492#section-3.4\n * @private\n *^\nconst adapt = function(delta,
numPoints, firstTime) {\n\tlet k = 0;\n\tlet delta = firstTime ? floor(delta / damp) : delta >> 1;\n\tlet delta += floor(delta /
numPoints);\n\tfor (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {\n\t\tlet delta = floor(delta /
baseMinusTMin);\n\t\t}\n\treturn floor(k + (baseMinusTMin + 1) * delta / (delta + skew));\n\t};\n\n/**\n * Converts a
Punycode string of ASCII-only symbols to a string of Unicode\n * symbols.\n * @memberOf punycode\n *
@param {String} input The Punycode string of ASCII-only symbols.\n * @returns {String} The resulting string of
Unicode symbols.\n *^\nconst decode = function(input) {\n\t// Don't use UCS-2.\n\tconst
output = [];\n\tconst inputLength = input.length;\n\tlet i = 0;\n\tlet n = initialN;\n\tlet bias = initialBias;\n\t//
Handle the basic code points: let `basic` be the number of input code\n\t// points before the last delimiter, or `0` if

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there is none, then copy\n\t// the first basic code points to the output.\n\n\tlet basic =
input.lastIndexOf(delimiter);\n\tif (basic < 0) {\n\t\tbasic = 0;\n\t}\n\tfor (let j = 0; j < basic; ++j) {\n\t\t// if it's not
a basic code point\n\t\tif (input.charCodeAt(j) >= 0x80) {\n\t\t\tthrow('not-
basic');\n\t\t}\n\t\toutput.push(input.charCodeAt(j));\n\t}\n\n\t// Main decoding loop: start just after the last delimiter
if any basic code\n\t// points were copied; start at the beginning otherwise.\n\tfor (let index = basic > 0 ? basic + 1
: 0; index < inputLength; /* no final expression */) {\n\t\t// `index` is the index of the next character to be
consumed.\n\t\t// Decode a generalized variable-length integer into `delta`,\n\t\t// which
gets added to `i`. The overflow checking is easier\n\t\t// if we increase `i` as we go, then subtract off its
starting\n\t\t// value at the end to obtain `delta`.\n\t\tlet oldi = i;\n\t\tfor (let w = 1, k = base; /* no condition */; k +=
base) {\n\t\t\tif (index >= inputLength) {\n\t\t\t\tthrow('invalid-input');\n\t\t\t}\n\t\t\tconst digit =
basicToDigit(input.charCodeAt(index++));\n\t\t\tif (digit >= base || digit > floor((maxInt - i) / w))
{\n\t\t\t\tthrow('overflow');\n\t\t\t}\n\t\t\ti += digit * w;\n\t\t\tconst t = k <= bias ? tMin : (k >= bias + tMax ? tMax :
k - bias);\n\t\t\tif (digit < t) {\n\t\t\t\tbreak;\n\t\t\t}\n\t\t\tconst baseMinusT = base - t;\n\t\t\tif (w > floor(maxInt /
baseMinusT)) {\n\t\t\t\tthrow('overflow');\n\t\t\t}\n\t\t\ttw *= baseMinusT;\n\t\t\tconst out = output.length +
1;\n\t\t\tbias = adapt(i - oldi, out, oldi == 0);\n\t\t\t// `i` was supposed to wrap around from `out` to `0`,\n\t\t\t// incrementing `n` each time, so we'll fix that now:\n\t\t\tif
(floor(i / out) > maxInt - n) {\n\t\t\t\tthrow('overflow');\n\t\t\t}\n\t\t\ti += floor(i / out);\n\t\t\ti %= out;\n\t\t\t// Insert `n`
at position `i` of the output.\n\t\t\toutput.splice(i++, 0, n);\n\t\t}\n\n\t\treturn
String.fromCodePoint(...output);\n};\n\n/**\n * Converts a string of Unicode symbols (e.g. a domain name label) to
a\n * Punycode string of ASCII-only symbols.\n * @memberOf punycode\n * @param {String} input The string of
Unicode symbols.\n * @returns {String} The resulting Punycode string of ASCII-only symbols.\n */\nconst encode
= function(input) {\n\tconst output = [];\n\t// Convert the input in UCS-2 to an array of Unicode code
points.\n\tinput = ucs2decode(input);\n\t// Cache the length.\n\tlet inputLength = input.length;\n\t// Initialize the
state.\n\tlet n = initialN;\n\tlet delta = 0;\n\tlet bias = initialBias;\n\t// Handle the basic code points.\n\tfor (const
currentValue of input) {\n\t\tif (currentValue < 0x80)
{\n\t\t\toutput.push(stringFromCharCode(currentValue));\n\t\t}\n\t}\n\tlet
basicLength = output.length;\n\tlet handledCPCCount = basicLength;\n\t// `handledCPCCount` is the number of code
points that have been handled;\n\t// `basicLength` is the number of basic code points.\n\t// Finish the basic string
with a delimiter unless it's empty.\n\tif (basicLength) {\n\t\toutput.push(delimiter);\n\t}\n\n\t// Main encoding
loop:\n\twhile (handledCPCCount < inputLength) {\n\t\t// All non-basic code points < n have been handled already.
Find the next\n\t\t// larger one:\n\t\tlet m = maxInt;\n\t\tfor (const currentValue of input) {\n\t\t\tif (currentValue >=
n && currentValue < m) {\n\t\t\t\ttm = currentValue;\n\t\t\t}\n\t\t}\n\t\t// Increase `delta` enough to advance the
decoder's <n,i> state to <m,0>,\n\t\t// but guard against overflow.\n\t\tconst handledCPCCountPlusOne =
handledCPCCount + 1;\n\t\tif (m - n > floor((maxInt - delta) / handledCPCCountPlusOne))
{\n\t\t\tthrow('overflow');\n\t\t}\n\t\t\tdelta += (m - n) * handledCPCCountPlusOne;\n\t\t\tn
= m;\n\t\t\tfor (const currentValue of input) {\n\t\t\t\tif (currentValue < n && ++delta > maxInt)
{\n\t\t\t\t\tthrow('overflow');\n\t\t\t\t}\n\t\t\t\tif (currentValue === n) {\n\t\t\t\t\t// Represent delta as a generalized variable-
length integer.\n\t\t\t\t\tlet q = delta;\n\t\t\t\t\tfor (let k = base; /* no condition */; k += base) {\n\t\t\t\t\t\tconst t = k <=
bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\t\t\t\t\t\tif (q < t) {\n\t\t\t\t\t\t\tbreak;\n\t\t\t\t\t\t}\n\t\t\t\t\t\tconst
qMinusT = q - t;\n\t\t\t\t\t\tconst baseMinusT = base -
t;\n\t\t\t\t\t\toutput.push(stringFromCharCode(digitToBasic(t + qMinusT % baseMinusT,
0)));\n\t\t\t\t\t\tq = floor(qMinusT /
baseMinusT);\n\t\t\t\t\t\toutput.push(stringFromCharCode(digitToBasic(q, 0)));\n\t\t\t\t\t\tbias = adapt(delta,
handledCPCCountPlusOne, handledCPCCount == basicLength);\n\t\t\t\t\t\t\tdelta =
0;\n\t\t\t\t\t\tt += handledCPCCount;\n\t\t\t\t\t\t}\n\t\t\t\t\t\t}\n\t\t\t\t\t\tt += delta;\n\t\t\t\t\t\tt += n;\n\t\t\t\t\t\t}\n\t\t\t\t\t\treturn output.join('');\n\t\t}\n};\n\n/**\n * Converts a Punycode string representing a domain name or an email address\n * to Unicode. Only the Punycoded
parts of the input will be converted, i.e.\n * it doesn't matter if you call it on a string that has already been\n *
converted to Unicode.\n * @memberOf punycode\n * @param {String} input The Punycoded domain name or

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email address to\n * convert to Unicode.\n * @returns {String} The Unicode representation of the given Punycode\n
* string.\n */\nconst toUnicode = function(input) {\n\treturn mapDomain(input, function(string) {\n\t\treturn\n
regexPunycode.test(string)\n\t\t\t? decode(string.slice(4).toLowerCase())\n\t\t\t: string;\n\t});\n};\n\n/**\n *
Converts a Unicode string representing a domain name or an email address to\n * Punycode. Only the non-ASCII
parts of the domain name will be converted,\n * i.e. it doesn't matter if you call it with a domain that's already in\n *
ASCII.\n * @memberOf punycode\n * @param {String} input The domain name or email address to convert, as
a\n * Unicode string.\n * @returns {String} The Punycode representation of the given domain name or\n * email
address.\n */\nconst toASCII = function(input) {\n\treturn mapDomain(input, function(string) {\n\t\treturn\n
regexNonASCII.test(string)\n\t\t\t? 'xn--' + encode(string)\n\t\t\t: string;\n\t});\n};\n\n/*-----
-----*\n\n/**\n * Define the public API *\nconst punycode = {\n\t/**\n\t * A string
representing the current Punycode.js version number.\n\t * @memberOf punycode\n\t * @type String\n\t */\n\t'version': '2.1.0',\n\t/**\n\t * An object of methods to convert from JavaScript's internal character\n\t *
representation (UCS-2) to Unicode code points, and back.\n\t * @see <https://mathiasbynens.be/notes/javascript-encoding>\n\t * @memberOf punycode\n\t * @type Object\n\t */\n\t'ucs2': {\n\t\t'todecode': ucs2decode,\n\t\t'toencode':\n
ucs2encode\n\t},\n\t'todecode': decode,\n\t'toencode': encode,\n\t'toASCII': toASCII,\n\t'toUnicode':\n
toUnicode\n};\n\nexport default punycode;\n", "/**\n * URI.js\n * *\n * @fileoverview An RFC 3986 compliant,\n
scheme extendable URI parsing/validating/resolving library for JavaScript.\n * @author <a\n
href="mailto:gary.court@gmail.com">Gary Court</a>\n * @see http://github.com/garycourt/uri-js\n */\n\n**\n *
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SUBSTITUTE GOODS OR\n * SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS\n
INTERRUPTION) HOWEVER CAUSED AND ON\n * ANY THEORY OF LIABILITY, WHETHER IN\n
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING\n * NEGLIGENCE OR OTHERWISE) ARISING\n
IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF\n * ADVISED OF THE POSSIBILITY OF\n
SUCH DAMAGE.\n * \n * The views and conclusions contained in the software and documentation are those of\n
the\n * authors and should not be interpreted as representing official policies, either expressed\n * or implied, of\n
Gary Court.\n */\n\nimport URI_PROTOCOL from './regexprs-uri';\nimport IRI_PROTOCOL from './regexprs-iri';\nimport punycode from 'punycode';\nimport\n
{\n\ttoUpperCase, typeof, assign\n} from './util';\n\nexport interface URISchemeComponents\n
{\n\tscheme?:string;\n\tuserinfo?:string;\n\thost?:string;\n\tport?:number|string;\n\tpath?:string;\n\tquery?:string;\n\tfragment?:string;\n\treference?:string;\n\tterror?:string;\n}\n\nexport interface URIOptions\n
{\n\tscheme?:string;\n\treference?:string;\n\ttolerant?:boolean;\n\tabsolutePath?:boolean;\n\tiri?:boolean;\n\tunicode\n
Support?:boolean;\n\tdomainHost?:boolean;\n}\n\nexport interface URISchemeHandler<Components extends\n
URISchemeComponents = URISchemeComponents, Options extends URIOptions = URIOptions, ParentComponents extends\n
URISchemeComponents = URISchemeComponents> {\n\tscheme:string;\n\tparse(components:ParentComponents,\n
options:Options):Components;\n\tserialize(components:Components,\n
options:Options):ParentComponents;\n\tunicodeSupport?:boolean;\n\tdomainHost?:boolean;\n\tabsolutePath?:boolean;\n}\n\nexport interface URIRegExps {\n\tNOT_SCHEME : RegExp,\n\tNOT_USERINFO :\n
RegExp,\n\tNOT_HOST :

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RegExp,\n\tNOT_PATH : RegExp,\n\tNOT_PATH_NOScheme : RegExp,\n\tNOT_QUERY :
RegExp,\n\tNOT_FRAGMENT : RegExp,\n\tESCAPE : RegExp,\n\tUNRESERVED :
RegExp,\n\tOTHER_CHARS : RegExp,\n\tPCT_ENCODED : RegExp,\n\tIPV4ADDRESS :
RegExp,\n\tIPV6ADDRESS : RegExp,\n}
\n\nexport const SCHEMES: {[scheme:string]:URISchemeHandler} =
{
\n\nexport function pctEncChar(chr:string):string {
\n\tconst c = chr.charCodeAt(0);
\n\tlet e:string;
\n\tif (c < 16)
e = \"%0\" + c.toString(16).toUpperCase();
\n\telse if (c < 128) e = \"%\" + c.toString(16).toUpperCase();
\n\telse if (c
< 2048) e = \"%\" + ((c >> 6) | 192).toString(16).toUpperCase() + \"%\" + ((c & 63) |
128).toString(16).toUpperCase();
\n\telse e = \"%\" + ((c >> 12) | 224).toString(16).toUpperCase() + \"%\" + (((c >>
6) & 63) | 128).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();
\n\treturn
e;
\n}
\n\nexport function pctDecChars(str:string):string {
\n\tlet newStr = \"\";
\n\tlet i = 0;
\n\tconst il =
str.length;
\n\n\twhile
(i < il) {
\n\t\tconst c = parseInt(str.substr(i + 1, 2), 16);
\n\t\tif (c < 128) {
\n\t\t\tnewStr +=
String.fromCharCode(c);
\n\t\t\ti += 3;
\n\t\t\t}
\n\t\telse if (c >= 194 && c < 224) {
\n\t\t\tif ((il - i) >= 6) {
\n\t\t\t\tconst
c2 = parseInt(str.substr(i + 4, 2), 16);
\n\t\t\t\tnewStr += String.fromCharCode(((c & 31) << 6) | (c2 & 63));
\n\t\t\t\t}
\n\t\t\telse {
\n\t\t\t\tnewStr += str.substr(i, 6);
\n\t\t\t\ti += 6;
\n\t\t\t\t}
\n\t\t\t}
\n\t\telse if (c >= 224) {
\n\t\t\tif ((il - i) >= 9)
{
\n\t\t\t\tconst c2 = parseInt(str.substr(i + 4, 2), 16);
\n\t\t\t\tconst c3 = parseInt(str.substr(i + 7, 2), 16);
\n\t\t\t\tnewStr
+= String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));
\n\t\t\t\t}
\n\t\t\telse {
\n\t\t\t\tnewStr +=
str.substr(i, 9);
\n\t\t\t\ti += 9;
\n\t\t\t\t}
\n\t\t\t}
\n\t\telse {
\n\t\t\tnewStr += str.substr(i, 3);
\n\t\t\ti +=
3;
\n\t\t\t}
\n\t\t}
\n\n\treturn newStr;
\n}
\n\nfunction _normalizeComponentEncoding(components:URISchemeHandler,
protocol:URISchemeHandler) {
\n\tfunction decodeUnreserved(str:string):string {
\n\t\tconst
decStr = pctDecChars(str);
\n\t\treturn (!decStr.match(protocol.UNRESERVED) ? str : decStr);
\n\t}
\n\n\tif
(components.scheme) components.scheme = String(components.scheme).replace(protocol.PCT_ENCODED,
decodeUnreserved).toLowerCase().replace(protocol.NOT_SCHEME, \"\");
\n\tif (components userinfo !==
undefined) components userinfo = String(components userinfo).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_USERINFO, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);
\n\tif (components host !== undefined) components host =
String(components host).replace(protocol.PCT_ENCODED,
decodeUnreserved).toLowerCase().replace(protocol.NOT_HOST, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);
\n\tif (components path !== undefined) components path =
String(components path).replace(protocol.PCT_ENCODED, decodeUnreserved).replace((components.scheme ?
protocol.NOT_PATH : protocol.NOT_PATH_NOScheme), pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);
\n\tif (components query
!== undefined) components query = String(components query).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_QUERY, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);
\n\tif (components fragment !== undefined) components fragment =
String(components fragment).replace(protocol.PCT_ENCODED,
decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED,
toUpperCase);
\n\n\treturn components;
\n}
\n\nfunction _stripLeadingZeros(str:string):string {
\n\treturn
str.replace(/^*(.*)/, \"\$1\") || \"0\";
\n}
\n\nfunction _normalizeIPv4(host:string, protocol:URISchemeHandler):string
{
\n\tconst matches = host.match(protocol.IPV4ADDRESS) || [];
\n\tconst [, address] = matches;
\n\tif (address)
{
\n\t\treturn address.split(\".\").map(_stripLeadingZeros).join(\".\");
\n\t}
\n\telse {
\n\t\treturn host;
\n\t}
\n}
\n\nfunction
_normalizeIPv6(host:string, protocol:URISchemeHandler):string {
\n\tconst matches =
host.match(protocol.IPV6ADDRESS) || [];
\n\tconst [,
address, zone] = matches;
\n\n\tif (address) {
\n\t\tconst [last, first] =
address.toLowerCase().split(\"::\").reverse();
\n\t\tconst firstFields = first ? first.split(\".\").map(_stripLeadingZeros) :
[];
\n\t\tconst lastFields = last.split(\".\").map(_stripLeadingZeros);
\n\t\tconst isLastFieldIPv4Address =
protocol.IPV4ADDRESS.test(lastFields[lastFields.length - 1]);
\n\t\tconst fieldCount = isLastFieldIPv4Address ? 7 :
8;
\n\t\tconst lastFieldsStart = lastFields.length - fieldCount;
\n\t\tconst fields = Array<string>(fieldCount);
\n\n\t\tfor

```





















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```
import URI_PROTOCOL from \".regexp-uri\";
import IRI_PROTOCOL from \".regexp-iri\";
import punycode from \".punycode\";
import { toUpperCase, typeOf, assign } from \".util\";

export interface URISchemeHandler extends URISchemeHandler<Components> {
  parse(components: ParentComponents, options: Options): Components;
  serialize(components: Components, options: Options): ParentComponents;
  unicodeSupport?: boolean;
  domainHost?: boolean;
  absolutePath?: boolean;
  NOT_SCHEME : RegExp;
  NOT_USERINFO : RegExp;
  NOT_HOST : RegExp;
  NOT_PATH : RegExp;
  NOT_PATH_NOScheme : RegExp;
  NOT_QUERY : RegExp;
  NOT_FRAGMENT : RegExp;
  ESCAPE : RegExp;
  UNRESERVED : RegExp;
  OTHER_CHARS : RegExp;
  PCT_ENCODED : RegExp;
  IPV4ADDRESS : RegExp;
  IPV6ADDRESS : RegExp;
}

export const SCHEMES: {[scheme:string]: URISchemeHandler} = {}

export function pctEncChar(chr:string):string {
  const c = chr.charCodeAt(0);
  let e:string;
  if (c < 128) e = \"%\" + c.toString(16).toUpperCase();
  else if (c < 2048) e = \"%\" + ((c >> 6) | 192).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();
  else e = \"%\" + ((c >> 12) | 224).toString(16).toUpperCase() + \"%\" + (((c >> 6) & 63) | 128).toString(16).toUpperCase() + \"%\" + ((c & 63) | 128).toString(16).toUpperCase();
  return e;
}

export function pctDecChars(str:string):string {
  let newStr = \"\";
  let i = 0;
  const il = str.length;
  while (i < il) {
    const c = parseInt(str.substr(i + 1, 2), 16);
    if (c < 128) {
      newStr += String.fromCharCode(c);
      i += 3;
    } else if (c >= 194 && c < 224) {
      const c2 = parseInt(str.substr(i + 4, 2), 16);
      newStr += String.fromCharCode(((c & 31) << 6) | (c2 & 63));
      i += 6;
    } else {
      const c2 = parseInt(str.substr(i + 4, 2), 16);
      const c3 = parseInt(str.substr(i + 7, 2), 16);
      newStr += String.fromCharCode(((c & 15) << 12) | ((c2 & 63) << 6) | (c3 & 63));
      i += 9;
    }
  }
  return newStr;
}

function _normalizeComponentEncoding(components: URISchemeHandler, protocol: URISchemeHandler) {
  // ...
}
```











```

*/function ucs2decode(string) {
  const output = [];
  let counter = 0;
  const length = string.length;
  while (counter < length) {
    const value = string.charCodeAt(counter++);
    if (value >= 0xD800 && value <= 0xDBFF && counter < length) {
      // It's a high surrogate, and there is a next character.
      const extra = string.charCodeAt(counter++);
      if ((extra & 0xFC00) == 0xDC00) { // Low surrogate.
        output.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);
      } else {
        // It's an unmatched surrogate; only append this code unit, in case the next code unit is the high surrogate of a surrogate pair.
        output.push(value);
        counter--;
      }
    } else {
      output.push(value);
    }
  }
  return output;
}

/*
 * Creates a string based on an array of numeric code points.
 * @see `punycode.ucs2.decode`
 * @memberOf punycode.ucs2
 * @name encode
 * @param {Array} codePoints The array of numeric code points.
 * @returns {String} The new Unicode string (UCS-2).
 */
const ucs2encode = array => String.fromCodePoint(...array);

/*
 * Converts a basic code point into a digit/integer.
 * @see `digitToBasic()`
 * @private
 * @param {Number} codePoint The basic numeric code point value.
 * @returns {Number} The numeric value of a basic code point (for use in representing integers) in the range `0` to `base - 1`, or `base` if the code point does not represent a value.
 */
const basicToDigit = function(codePoint) {
  if (codePoint - 0x30 < 0x0A) {
    return codePoint - 0x16;
  }
  if (codePoint - 0x41 < 0x1A) {
    return codePoint - 0x41;
  }
  if (codePoint - 0x61 < 0x1A) {
    return codePoint - 0x61;
  }
  return base;
};

/*
 * Converts a digit/integer into a basic code point.
 * @see `basicToDigit()`
 * @private
 * @param {Number} digit The numeric value of a basic code point.
 * @returns {Number} The basic code point whose value (when used for representing integers) is `digit`, which needs to be in the range `0` to `base - 1`. If `flag` is non-zero, the uppercase form is used; else, the lowercase form is used. The behavior is undefined if `flag` is non-zero and `digit` has no uppercase form.
 */
const digitToBasic = function(digit, flag) {
  // 0..25 map to ASCII a..z or A..Z
  // 26..35 map to ASCII 0..9
  return digit + 22 + 75 * (digit < 26) - ((flag != 0) << 5);
};

/*
 * Bias adaptation function as per section 3.4 of RFC 3492.
 * https://tools.ietf.org/html/rfc3492#section-3.4
 */
const adapt = function(delta, numPoints, firstTime) {
  let k = 0;
  delta = firstTime ? floor(delta / damp) : delta >> 1;
  delta += floor(delta / numPoints);
  for (/* no initialization */; delta > baseMinusTMin * tMax >> 1; k += base) {
    delta = floor(delta / baseMinusTMin);
  }
  return floor(k + (baseMinusTMin + 1) * delta / (delta + skew));
};

/*
 * Converts a Punycode string of ASCII-only symbols to a string of Unicode symbols.
 * @memberOf punycode
 * @param {String} input The Punycode string of ASCII-only symbols.
 * @returns {String} The resulting string of Unicode symbols.
 */
const decode = function(input) {
  // Don't use UCS-2.
  const output = [];
  const inputLength = input.length;
  let i = 0;
  let let bias = initialBias;

  // Handle the basic code points: let `basic` be the number of input code points before the last delimiter, or `0` if there is none, then copy the first basic code points to the output.
  let basic = input.lastIndexOf(delimiter);
  if (basic < 0) {
    basic = 0;
  }

  for (let j = 0; j < basic; ++j) {
    // If it's not a basic code point
    if (input.charCodeAt(j) >= 0x80) {
      throw new Error('not-basic');
    }
    output.push(input.charCodeAt(j));
  }

  // Main decoding loop: start just after the last delimiter if any basic code points were copied; start at the beginning otherwise.
  for (let index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) {
    // `index` is the index of the next character to be consumed.
    // Decode a generalized variable-length integer into `delta`, which gets added to `i`. The overflow checking is easier if we increase `i` as we go, then subtract off its starting value at the end to obtain `delta`.
    let oldi = i;
    for (let w = 1, k = base; /* no condition */; k += base) {
      if (index >= inputLength) {
        throw new Error('invalid-input');
      }
      const digit = basicToDigit(input.charCodeAt(index++));

      if (digit >= base || digit > floor((maxInt - i) / w)) {
        throw new Error('overflow');
      }
      i += digit * w;
      const t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);
      if (digit < t) {
        break;
      }
      const baseMinusT = base - t;
      if (w > floor(maxInt / baseMinusT)) {
        throw new Error('overflow');
      }
      tw *= baseMinusT;
    }
    const out = output.length + 1;
    bias = adapt(i - oldi, out, oldi == 0);
    // `i` was supposed to wrap around from `out` to `0`, incrementing `n` each time, so we'll fix that now:
    floor(i /

```



```

} from \".uri\";
nimport { buildExps } from \".regexps-uri\";
nexport default buildExps(true);
n",
"import {
URIRegExps } from \".uri\";
nimport { merge, subexp } from \".util\";
nexport function
buildExps(isIRI:boolean):URIRegExps {
nconst ALPHA$$ = \"[A-Za-z]\",
nconst CR$$ =
\"[\\x0D]\",
nconst DIGIT$$ = \"[0-9]\",
nconst DQUOTE$$
= \"[\\x22]\",
nconst HEXDIG$$ = merge(DIGIT$$, \"[A-Fa-f]\"), //case-insensitive
nconst LF$$ =
\"[\\x0A]\",
nconst SP$$ = \"[\\x20]\",
nconst PCT_ENCODED$ = subexp(subexp(\"%[EFeF]\" + HEXDIG$$ + \"%\" +
HEXDIG$$ + HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"%\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ +
\"%\" + HEXDIG$$ + HEXDIG$$) + \"%\" + subexp(\"%\" + HEXDIG$$ + HEXDIG$$)),
//expanded
nconst GEN_DELIMS$$ = \"[!\"#$%&'()*+,-./:;=]\",
nconst SUB_DELIMS$$ =
\"[!\"#$%&'()*+,-./:;=]\",
nconst RESERVED$$ = merge(GEN_DELIMS$$,
SUB_DELIMS$$),
nconst UCSCHAR$$ = isIRI ? \"[\\xA0-\\u200D\\u2010-\\u2029\\u202F-
\\uD7FF\\uF900-\\uFDCF\\uFDF0-\\uFFEF]\" : \"[]\", //subset, excludes bidi control
characters
nconst PRIVATE$$ = isIRI ? \"[\\uE000-\\uF8FF]\" : \"[]\", //subset
nconst UNRESERVED$$ =
merge(ALPHA$$, DIGIT$$, \"[!\"#$%&'()*+,-./:;=]\", UCSCHAR$$),
nconst SCHEME$ = subexp(ALPHA$$ +
merge(ALPHA$$, DIGIT$$, \"[!\"#$%&'()*+,-./:;=]\"))
+ \"%*\",
nconst USERINFO$ = subexp(subexp(PCT_ENCODED$ + \"%\" + merge(UNRESERVED$$,
SUB_DELIMS$$, \"[!\"#$%&'()*+,-./:;=]\")) + \"%*\"),
nconst DEC_OCTET$ = subexp(subexp(\"25[0-5]\" + \"%\" + subexp(\"2[0-4]\" +
DIGIT$$) + \"%\" + subexp(\"1\" + DIGIT$$ + DIGIT$$) + \"%\" + subexp(\"[1-9]\" + DIGIT$$) + \"%\" +
DIGIT$$),
nconst DEC_OCTET_RELAXED$ = subexp(subexp(\"25[0-5]\" + \"%\" + subexp(\"2[0-4]\" + DIGIT$$) +
\"%\" + subexp(\"1\" + DIGIT$$ + DIGIT$$) + \"%\" + subexp(\"0?[1-9]\" + DIGIT$$) + \"%0?0?\" + DIGIT$$),
//relaxed parsing rules
nconst IPV4ADDRESS$ = subexp(DEC_OCTET_RELAXED$ + \"%\" + \"%\" +
DEC_OCTET_RELAXED$ + \"%\" + \"%\" + DEC_OCTET_RELAXED$ + \"%\" + \"%\" +
DEC_OCTET_RELAXED$),
nconst H16$ = subexp(HEXDIG$$ + \"{1,4}\"),
nconst LS32$ = subexp(subexp(H16$ +
\"%\" + H16$) + \"%\" + IPV4ADDRESS$),
nconst IPV6ADDRESS1$ = subexp(
subexp(H16$ + \"%\" + \"%\" + \"{6}\" + LS32$), //
6( h16 \":\" )
ls32 n t i P V 6 A D D R E S S 2 $
= subexp(
\"%\" + \"%\" + \"%\" + \"%\" + subexp(H16$ + \"%\" + \"%\" + \"{5}\" + LS32$), //
5( h16 \":\" )
ls32 n t i P V 6 A D D R E S S 3 $
= subexp(subexp(
H16$ + \"%\" + \"%\" + \"%\" +
subexp(H16$ + \"%\" + \"%\" + \"{4}\" + LS32$), //
4( h16 \":\" )
ls32 n t i P V 6 A D D R E S S 4 $
= subexp(subexp(subexp(H16$ + \"%\" + \"%\" + \"{0,1}\" + H16$) + \"%\" + \"%\" + \"%\" + subexp(H16$ + \"%\" + \"%\" +
\"{3}\" +
LS32$), //
*1( h16 \":\" )
h16 ] \":\"
3( h16 \":\" )
ls32 n t i P V 6 A D D R E S S 5 $
= subexp(subexp(subexp(H16$ +
\"%\" + \"%\" + \"%\" + H16$) + \"%\" + \"%\" + \"%\" + subexp(H16$ + \"%\" + \"%\" + \"%\" +
\"{2}\" +
LS32$), //
*2( h16 \":\" )
h16 ] \":\"
2( h16 \":\" )
ls32 n t i P V 6 A D D R E S S 6 $
= subexp(subexp(subexp(H16$ + \"%\" + \"%\" + \"%\" + H16$) +
\"%\" + \"%\" + \"%\" +
H16$ + \"%\" + \"%\" + \"%\" + LS32$), //
*3( h16 \":\" )
h16 ] \":\"
h16 \":\"
ls32 n t i P V 6 A D D R E S S 7 $
= subexp(subexp(subexp(H16$
+ \"%\" + \"%\" + \"%\" + \"%\" + H16$) + \"%\" + \"%\" + \"%\" + \"%\" +
LS32$), //
*4( h16 \":\" )
h16 ] \":\"
ls32 n t i P V 6 A D D R E S S 8 $
= subexp(subexp(subexp(H16$ + \"%\" + \"%\" + \"%\" + H16$) + \"%\" + \"%\" + \"%\" +
H16$), //
*5( h16 \":\" )
h16 ] \":\"
h16 n t i P V 6 A D D R E S S 9 $
= subexp(subexp(subexp(H16$ +
\"%\" + \"%\" + \"%\" + H16$) + \"%\" + \"%\" + \"%\" + \"%\" +
LS32$), //
*6( h16 \":\" )
h16 ] \":\"
nconst IPV6ADDRESS$ = subexp([IPV6ADDRESS1$, IPV6ADDRESS2$, IPV6ADDRESS3$,
IPV6ADDRESS4$, IPV6ADDRESS5$, IPV6ADDRESS6$, IPV6ADDRESS7$, IPV6ADDRESS8$,
IPV6ADDRESS9$].join(\"|\")),
nconst ZONEID$ = subexp(subexp(UNRESERVED$$ + \"%\" + PCT_ENCODED$) +
\"+\"), //RFC 6874
nconst IPV6ADDRZ$ = subexp(IPV6ADDRESS$ + \"%\" + \"%25\" + ZONEID$), //RFC
6874
nconst IPV6ADDRZ_RELAXED$ = subexp(IPV6ADDRESS$ + subexp(\"%25\" + \"%\" + \"%\" +
\"{2}\")) + ZONEID$), //RFC 6874, with relaxed
parsing rules
nconst IPVFUTURE$ = subexp(\"[vV]\" + HEXDIG$$ + \"%\" + \"%\" + \"%\" + merge(UNRESERVED$$,
SUB_DELIMS$$, \"[!\"#$%&'()*+,-./:;=]\")) + \"%\" + \"%\"),
nconst IP_LITERAL$ = subexp(\"[\" + subexp(IPV6ADDRZ_RELAXED$ +
\"%\" + IPV6ADDRESS$ + \"%\" + \"%\" + IPVFUTURE$) + \"%\" + \"%\"), //RFC 6874
nconst REG_NAME$ =
subexp(subexp(PCT_ENCODED$ + \"%\" + merge(UNRESERVED$$, SUB_DELIMS$$)) + \"%*\"),
nconst HOST$ =

```

```

subexp(IP_LITERAL$ + "|" + IPV4ADDRESS$ + "(?!" + REG_NAMES$ + ")" + "|" +
REG_NAMES$),\n\t\tPORT$ = subexp(DIGIT$$ + "*""),\n\t\tAUTHORITY$ = subexp(subexp(USERINFO$ +
"@") + "?" + HOST$ + subexp("|||:" + PORT$) + "?""),\n\t\tPCHAR$ = subexp(PCT_ENCODED$ + "|" +
merge(UNRESERVED$$, SUB_DELIMSS$, "[|:|@|]")), \n\t\tSEGMENT$ = subexp(PCHAR$ +
"*"),\n\t\tSEGMENT_NZ$ = subexp(PCHAR$ + "+""),\n\t\tSEGMENT_NZ_NC$ =
subexp(subexp(PCT_ENCODED$ + "|" + merge(UNRESERVED$$, SUB_DELIMSS$, "[|:|@|]")) +
"+"),\n\t\tPATH_ABEMPTY$ = subexp(subexp("|||/" + SEGMENT$) + "*""),\n\t\tPATH_ABSOLUTE$
= subexp("|||/" + subexp(SEGMENT_NZ$ + PATH_ABEMPTY$) + "?""),
//simplified\n\t\tPATH_NOSCHEMES$ = subexp(SEGMENT_NZ_NC$ + PATH_ABEMPTY$),
//simplified\n\t\tPATH_ROOTLESS$ = subexp(SEGMENT_NZ$ + PATH_ABEMPTY$),
//simplified\n\t\tPATH_EMPTY$ = "(?!" + PCHAR$ + ")" ,\n\t\tPATH$ = subexp(PATH_ABEMPTY$ + "|" +
PATH_ABSOLUTE$ + "|" + PATH_NOSCHEMES$ + "|" + PATH_ROOTLESS$ + "|" +
PATH_EMPTY$),\n\t\tQUERY$ = subexp(subexp(PCHAR$ + "|" + merge("|||/|||?", IPRIVATE$$)) +
"*"),\n\t\tFRAGMENTS$ = subexp(subexp(PCHAR$ + "[|:|@|]?" + "*""),\n\t\tHIER_PART$ =
subexp(subexp("|||/|||/" + AUTHORITY$ + PATH_ABEMPTY$) + "|" + PATH_ABSOLUTE$ + "|" +
PATH_ROOTLESS$ + "|" + PATH_EMPTY$),\n\t\tURI$ = subexp(SCHEMES$ + "|||:" + HIER_PART$ +
subexp("|||?" + QUERY$) + "?" + subexp("|||#|" + FRAGMENT$) + "?""),\n\t\tRELATIVE_PART$ =
subexp(subexp("|||/|||/" + AUTHORITY$ + PATH_ABEMPTY$) + "|" + PATH_ABSOLUTE$ + "|" +
PATH_NOSCHEMES$ + "|" + PATH_EMPTY$),\n\t\tRELATIVES$
= subexp(RELATIVE_PART$ + subexp("|||?" + QUERY$) + "?" + subexp("|||#|" + FRAGMENT$) +
"?"),\n\t\tURI_REFERENCES$ = subexp(URI$ + "|" + RELATIVES$),\n\t\tABSOLUTE_URI$ =
subexp(SCHEMES$ + "|||:" + HIER_PART$ + subexp("|||?" + QUERY$) + "?""),\n\t\tGENERIC_REF$ =
"^(" + SCHEMES$ + ")|||:" + subexp(subexp("|||/|||/" + subexp("(" + USERINFO$ + ")@") + "?" +
HOST$ + ")") + subexp("|||:( + PORT$ + ")") + "?" + "?" + PATH_ABEMPTY$ + "|" +
PATH_ABSOLUTE$ + "|" + PATH_ROOTLESS$ + "|" + PATH_EMPTY$ + ")") + subexp("|||?( +
QUERY$ + ")") + "?" + subexp("|||#( + FRAGMENT$ + ")") + "$",\n\t\tRELATIVE_REF$ = "^{0}" +
subexp(subexp("|||/|||/" + subexp("(" + USERINFO$ + ")@") + "?" + HOST$ + ")") + subexp("|||:( +
PORT$ + ")") + "?" + "?" + PATH_ABEMPTY$ + "|" + PATH_ABSOLUTE$ + "|" +
PATH_NOSCHEMES$ + "|" + PATH_EMPTY$ + ")") + subexp("|||?( + QUERY$ + ")") + "?" +
subexp("|||#( + FRAGMENT$ + ")") + "$",\n\t\tABSOLUTE_REF$ = "^(" + SCHEMES$ + ")|||:" +
subexp(subexp("|||/|||/" + subexp("(" + USERINFO$ + ")@") + "?" + HOST$ + ")") + subexp("|||:( +
PORT$ + ")") + "?" + "?" + PATH_ABEMPTY$ + "|" + PATH_ABSOLUTE$ + "|" +
PATH_ROOTLESS$ + "|" + PATH_EMPTY$ + ")") + subexp("|||?( + QUERY$ + ")") +
"?"$, \n\t\tSAMEDOC_REF$ = "^" + subexp("|||#( + FRAGMENT$ + ")") +
"?"$, \n\t\tAUTHORITY_REF$ = "^" + subexp("(" + USERINFO$ + ")@") + "?" + HOST$ + ")") +
subexp("|||:( + PORT$ + ")") + "?"$"\n\t;\n\treturn { \n\t\t\tNOT_SCHEME : new RegExp(merge("[^]" ,
ALPHA$$, DIGIT$$, "[|:|@|]"), "g"), \n\t\t\tNOT_USERINFO : new RegExp(merge("[^%|:]"),
UNRESERVED$$, SUB_DELIMSS$), "g"), \n\t\t\tNOT_HOST : new RegExp(merge("[^%|:]|:" ,
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UNRESERVED$$, SUB_DELIMSS$),
" g"), \n\t\t\tNOT_PATH_NOSCHEME : new RegExp(merge("[^%|:]|:" , UNRESERVED$$,
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RegExp("^( + IPV4ADDRESS$ + ")$", \n\t\t\tIPV6ADDRESS : new RegExp("^(|||?( + IPV6ADDRESS$ +

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\})" + subexp(subexp("\\\\%25\\\\%(?!" + HEXDIG$$ + "\\{2}\\") + "\\(" + ZONEID$ + "\\)") + "\\?\\\\]?$\\")
//RFC 6874, with relaxed parsing rules\n\t};\n}\n\nexport default buildExps(false);\n","export function
merge(...sets:Array<string>):string
  {\n\t\tif (sets.length > 1) {\n\t\t\tsets[0] = sets[0].slice(0, -1);\n\t\t\tconst xl = sets.length - 1;\n\t\t\tfor (let x = 1; x < xl;
  ++x) {\n\t\t\t\tsets[x] = sets[x].slice(1, -1);\n\t\t\t}\n\t\t\tsets[xl] = sets[xl].slice(1);\n\t\t\treturn sets.join("");\n\t\t} else
  {\n\t\t\treturn sets[0];\n\t\t}\n}\n\nexport function subexp(str:string):string {\n\t\treturn "\\(?:\\" + str + "\\)";\n}\n\nexport
function typeOf(o:any):string {\n\t\treturn o === undefined ? "undefined" : (o === null ? "null" :
Object.prototype.toString.call(o).split("\\ ").pop().split("\\]").shift().toLowerCase());\n}\n\nexport function
toUpperCase(str:string):string {\n\t\treturn str.toUpperCase();\n}\n\nexport function toArray(obj:any):Array<any>
{\n\t\treturn obj !== undefined && obj !== null ? (obj instanceof Array ? obj : (typeof obj.length !== "number" ||
obj.split || obj.setInterval || obj.call ? [obj] : Array.prototype.slice.call(obj))) : [];\n}\n\nexport function
assign(target: object, source: any): any {\n\t\tconst obj = target as
  any;\n\t\tif (source) {\n\t\t\tfor (const key in source) {\n\t\t\t\tobj[key] = source[key];\n\t\t\t}\n\t\t}\n\t\treturn
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AAf,GAAoF0C,SAASG,SAAT,CAAMBN,MAAnB,CAA9F;iBADD,CAEE,OAAOE,CAAP,EAUU;+BACAvC,K  
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AjE,EAA8EH,OAA9E,CAAsFI,UAAfF,EAakGC,UAAIG,IACA,GADA,GAEAC,QAAQP,IAAR,EAACc,OAAd,  
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F,CAA+FO,WAA/F,EAA4GF,UAA5G,CAHD;;;YAOEV,OAAOE,MAAX,EAAMb;uBACPH,KAAx,GAAMBC,  
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MF,YAAerB,MAAf,UAAyBS,QAAQS,GAAR,IAAeA,GAAxC,CAAN;gBACMC,gBAAgBrB,QAAQuB,SAAR,CAAtB;0BAECh,GAAd,GAAoBA,GAAPB;0BACcZ,GAAd,GAAoBA,GAAPB;0BACcW,IAAd,GAAqBH,SAARb;gBAEIK,AAAJ,EAAMb;gCACFA,cAAcG,KAAd,CAAoBjB,AAAPB,EAAMCI,OAAnC,CAAhB;;SAZF,MAcO;0BACQC,KAAd,GAAsBL,cAAcK,KAAd,IAAuB,wBAA7C;;eAGML,aAAP;KazByD;eA4B9C,sBAAUA,aAAV,EA AuCI,OAAvC,EAAb;YACQT,SAASS,QAAQT,MAAR,IAAkBK,cAAcL,MAAhC,IAA0C,KAAzD;YACMkB,MA AMb,cAAca,GAA1B;YACMG,YAAerB,MAAf,UAAyBS,QAAQS,GAAR,IAAeA,GAAxC,CAAN;YACMC,gBA AgBrB,QAAQuB,SAAR,CAAtB;YAEIF,AAAJ,EAAMb;4BACFA,cAAcC,SAAd,CAAwBf,aAAxB,EA AuCI,OA AvC,CAAhB;;YAGKO,gBAAgBX,aAAtB;YACMC,MAAMD,cAAcC,GAA1B;sBACcW,IAAd,IAAwBC,OAAOT, QAAQS,GAAvC,UAA8CZ,GAA9C;eAEOU,aAAP;;CA1CF,CA8CA;;AD5DA,IAAMH,OAAO,0DAAb;AACAA,AAEA;AACAA,IAAME,YAAsE;YACIE,UADkE;WAGnE,eAAUV,aAAV,EA AuCI,OA AvC,EAAT;YACQF,iBAAiB F,aAAvB;uBACeN,IAAf,GAAsBQ,eAAeD,GAARc;uBACeA,GAAf,GAAqBQ,SAARb;YAEI,CAACL,QAAQE,Q AAT,KAAAsB,CAACJ,eAAeR,IAAhB,IAAwB,CAACQ,eAAeR,IAAf,CAAoBa,KAAPB,CAA0BC,IAA1B,CAA/C, CAAJ,EAAqF;2BACrEH,KAAf,GAAuBH,eAAeG,KAAf,IAAwB,oBAA/C;;eAGMH,cAAP;KAZ0E;eAe/D,mBA AUA,cAAV,EAAyCE,OAAzC,EAAb;YACQJ,gBAAgBE,cAAtB;;sBAEcD,GAAd,GAAoB,CAACC,eAAeR,IAAf ,IAAuB,EAAxB,EAA4BS,WAA5B,EAAPB;eACOH,aAAP;;CAAnBF,CAuBA;;ADhCAP,QAAQM,QAACKJ,MAAb, IAAuBI,OA AvB;AAEA,AACAN,QAAQK,UAAAMH,MAAd,IAAwBG,SAAxB;AAEA,AACAL,QAAQI,UAAOF, MAAf,IAAyBE,SAAzB;AAEA,AACAJ,QAAQG,UAAID,MAAZ,IAAsBC,SAAtB;AAEA,AACAH,QAAQC,UA AKC,MAAb,IAAuBD,SAAvB,CAEA;,,,,,,,,,,,,,"}

Found

in path(s):

\* /opt/cola/permits/1110634955\_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/dist/es5/uri.all.js.map

No license file was found, but licenses were detected in source scan.

```
import resolve from 'rollup-plugin-node-resolve';
import babel from 'rollup-plugin-babel';
const packageJson = require('./package.json');
```

```
export default {
  entry : "dist/esnext/index.js",
  format : "umd",
  moduleName : "URI",
  plugins: [
    resolve({
      module: true,
      jsnext: true,
      preferBuiltins: false
    })
  ],
```

```
  babel({
    "presets": [
      ["latest", {
        "es2015": {
          "modules": false
        }
      }
    ]
  }
],
```

```
"plugins": ["external-helpers"],
"externalHelpers": false
}
)
],
dest : "dist/es5/uri.all.js",
sourceMap: true,
banner: "/* @license URI.js v" + packageJson.version + " (c) 2011 Gary Court. License:
http://github.com/garycourt/uri-js */"
}
```

Found in path(s):

```
* /opt/cola/permits/1110634955_1606918997.92/0/garycourt-uri-js-4-2-2-0-g4f6f600-1-tar-gz/garycourt-uri-js-4f6f600/rollup.config.js
```

## 1.352 postcss 6.0.23

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## 1.353 css-selector-tokenizer 0.7.1

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## 1.354 json-schema-traverse 0.4.1

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## 1.355 fast-json-stable-stringify 2.0.0

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## 1.356 postcss-modules-values 1.3.0

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## 1.357 regexpu-core 1.0.0

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## 1.358 postcss-modules-local-by-default 1.2.0

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## 1.359 postcss-modules-scope 1.1.0

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## 1.360 ansi-styles 3.2.1

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## 1.361 color-name 1.1.3

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## 1.362 color-convert 1.9.1

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## 1.363 isodate 0.6.0

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```

Found in path(s):

```

* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/__init__.py
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-
0.6.0/src/isodate/tests/test_datetime.py
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/tests/test_strf.py
*
/opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/setup.py
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/tests/__init__.py
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/duration.py
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/isoduration.py
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/isostrf.py
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/isotime.py
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/tests/test_date.py
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/isodates.py
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/isodatetime.py
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/isotzinfo.py
*
/opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/isoerror.py
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/tests/test_time.py
* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-
0.6.0/src/isodate/tests/test_duration.py

```

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Metadata-Version: 1.1

Name: isodate

Version: 0.6.0

Summary: An ISO 8601 date/time/duration parser and formatter

Home-page: <https://github.com/gweis/isodate/>

Author: Gerhard Weis

Author-email: [gerhard.weis@proclos.com](mailto:gerhard.weis@proclos.com)

License: BSD

Description:

ISO 8601 date/time parser

=====

.. image:: <https://travis-ci.org/gweis/isodate.svg?branch=master>

:target: <https://travis-ci.org/gweis/isodate>

:alt: Travis-CI

.. image:: <https://coveralls.io/repos/gweis/isodate/badge.svg?branch=master>

:target: <https://coveralls.io/r/gweis/isodate?branch=master>

:alt: Coveralls

.. image:: <https://img.shields.io/pypi/v/isodate.svg>

:target: <https://pypi.python.org/pypi/isodate/>

:alt: Latest Version

.. image:: <https://img.shields.io/pypi/l/isodate.svg>

:target: <https://pypi.python.org/pypi/isodate/>

:alt: License



This module implements ISO 8601 date, time and duration parsing. The implementation follows ISO8601:2004 standard, and implements only date/time representations mentioned in the standard. If something is not mentioned there, then it is treated as non existent, and not as an allowed option.

For instance, ISO8601:2004 never mentions 2 digit years. So, it is not intended by this module to support 2 digit years. (while it may still be valid as ISO date, because it is not explicitly forbidden.)

Another example is, when no time zone information is given for a time, then it should be interpreted as local time, and not UTC.

As this module maps ISO 8601 dates/times to standard Python data types, like `*date*`, `*time*`, `*datetime*` and `*timedelta*`, it is not possible to convert all possible ISO 8601 dates/times.

For instance, dates before 0001-01-01 are not allowed by the Python `*date*` and `*datetime*` classes. Additionally fractional seconds are limited to microseconds. That means if the parser finds for instance nanoseconds it will round it to microseconds.

#### Documentation

-----

Currently there are four parsing methods available.

- \* `parse_time`:  
parses an ISO 8601 time string into a `*time*` object
- \* `parse_date`:  
parses an ISO 8601 date string into a `*date*` object
- \* `parse_datetime`:  
parses an ISO 8601 date-time string into a `*datetime*` object
- \* `parse_duration`:  
parses an ISO 8601 duration string into a `*timedelta*` or `*Duration*` object.
- \* `parse_tzinfo`:  
parses the time zone info part of an ISO 8601 string into a `*tzinfo*` object.

As ISO 8601 allows to define durations in years and months, and `*timedelta*` does not handle years and months, this module provides a `*Duration*` class, which can be used almost like a `*timedelta*` object (with some limitations). However, a `*Duration*` object can be converted into a `*timedelta*` object.

There are also ISO formatting methods for all supported data types. Each `*xxx_isoformat*` method accepts a format parameter. The default format is always the ISO 8601 expanded format. This is the same format used by `*datetime.isoformat*`:

\* time\_isoformat:

Intended to create ISO time strings with default format  
\*hh:mm:ssZ\*.

\* date\_isoformat:

Intended to create ISO date strings with default format  
\*yyyy-mm-dd\*.

\* datetime\_isoformat:

Intended to create ISO date-time strings with default format  
\*yyyy-mm-ddThh:mm:ssZ\*.

\* duration\_isoformat:

Intended to create ISO duration strings with default format  
\*PnnYnnMnnDTnnHnnMnnS\*.

\* tz\_isoformat:

Intended to create ISO time zone strings with default format  
\*hh:mm\*.

\* strftime:

A re-implementation mostly compatible with Python's \*strftime\*, but supports only those format strings, which can also be used for dates prior 1900. This method also understands how to format \*datetime\* and \*Duration\* instances.

Installation:

-----

This module can easily be installed with Python standard installation methods.

Either use \*python setup.py install\* or in case you have \*setuptools\* or \*distribute\* available, you can also use \*easy\_install\*.

Limitations:

-----

\* The parser accepts several date/time representation which should be invalid according to ISO 8601 standard.

1. for date and time together, this parser accepts a mixture of basic and extended format. e.g. the date could be in basic format, while the time is accepted in extended format. It also allows short dates and times in date-time strings.
2. For incomplete dates, the first day is chosen. e.g. 19th century results in a date of 1901-01-01.
3. negative \*Duration\* and \*timedelta\* value are not fully supported yet.

Further information:

-----

The doc strings and unit tests should provide rather detailed information about

the methods and their limitations.

The source release provides a `*setup.py*` script, which can be used to run the unit tests included.

Source code is available at `<http://github.com/gweis/isodate>`_``.

## CHANGES

=====

0.6.0 (2017-10-13)

-----

- support incomplete month date (Fabien Loffredo)
- rely on duck typing when doing duration maths
- support ':' as separator in fractional time zones (usrenmae)

0.5.4 (2015-08-06)

-----

- Fix parsing of Periods (Fabien Bochu)
- Make Duration objects hashable (Geoffrey Fairchild)
- Add multiplication to duration (Reinoud Elhorst)

0.5.1 (2014-11-07)

-----

- fixed pickling of Duration objects
- raise ISO8601Error when there is no 'T' separator in datetime strings (Adrian Coveney)

0.5.0 (2014-02-23)

-----

- ISO8601Error are subclasses of ValueError now (Michael Hrivnak)
- improve compatibility across various python

variants and versions

- raise exceptions when using fractional years and months in date maths with durations
- renamed method `totdatetime` on Duration objects to `totimedelta`

0.4.9 (2012-10-30)

-----

- support pickling FixedOffset instances

- make sure parsed fractional seconds are in microseconds
- add leading zeros when formatting microseconds (Jarom Loveridge)

0.4.8 (2012-05-04)

-----

- fixed incompatibility of unittests with python 2.5 and 2.6 (runs fine on 2.7 and 3.2)

0.4.7 (2012-01-26)

-----

- fixed tzinfo formatting (never pass None into tzinfo.utcoffset())

0.4.6 (2012-01-06)

-----

- added Python 3 compatibility via 2to3

0.4.5 (2012-01-06)

-----

- made setuptools dependency optional

0.4.4 (2011-04-16)

-----

- Fixed formatting of microseconds for datetime objects

0.4.3 (2010-10-29)

-----

- Fixed problem with %P formatting and fractions (supplied by David Brooks)

0.4.2 (2010-10-28)

-----

- Implemented unary - for Duration (supplied by David Brooks)
- Output fractional seconds with '%P' format. (partly supplied by David Brooks)

0.4.1 (2010-10-13)

-----

- fixed bug in comparison between timedelta and Duration.
- fixed precision problem with microseconds (reported by Tommi Virtanen)

0.4.0 (2009-02-09)

-----

- added method to parse ISO 8601 time zone strings
- added methods to create ISO 8601 conforming strings

0.3.0 (2009-1-05)

-----

- Initial release

TODOs

=====

This to do list contains some thoughts and ideas about missing features, and parts to think about, whether to implement them or not. This list is probably not complete.

Missing features:

-----

- \* time formatting does not allow to create fractional representations.
- \* parser for ISO intervals.
- \* currently microseconds are always padded to a length of 6 characters.  
trailing 0s should be optional

Documentation:

-----

- \* parse\_datetime:
  - complete documentation to show what this function allows, but ISO forbids.  
and vice verse.
  - support other separators between date and time than 'T'
- \* parse\_date:
  - yeardigits  
should be always greater than 4
  - dates before 0001-01-01 are not supported
- \* parse\_duration:
  - alternative formats are not fully supported due to parse\_date restrictions
  - standard duration format is fully supported but not very restrictive.
- \* Duration:
  - support fractional years and month in calculations
  - implement w3c order relation? ([^ <http://www.w3.org/TR/xmlschema-2/#duration-order>`\\_\)](http://www.w3.org/TR/xmlschema-2/#duration-order))

- refactor to have duration mathematics only at one place.
- localize \_\_str\_\_ method (does timedelta do this?)
- when is a Duration negative?
- normalize Durations. months [00-12] and years ]-inf,+inf[

Platform: UNKNOWN

Classifier: Development Status :: 4 - Beta

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Classifier:

Programming Language :: Python

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\* /opt/cola/permits/1110810315\_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate.egg-info/PKG-INFO

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```
* /opt/cola/permits/1110810307_1606855956.29/0/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/LICENSE.rst
```

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```
"""
```

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA 2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

```
"""
```

```
import io, sys
from setuptools import setup
```

```
def main():
```

```
    python_version = sys.version_info[:2]
    if python_version < (2,7):
        raise SystemExit("Sorry, Python 2.7 or newer required")
```

```
    package_data = {}
    exec(open('idna/package_data.py').read(), package_data)
```

```
    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': package_data['__version__'],
        'description': 'Internationalized Domain Names in Applications (IDNA)',
        'long_description': io.open("README.rst", encoding="UTF-8").read(),
        'author': 'Kim Davies',
        'author_email': 'kim@cynosure.com.au',
        'license': 'BSD-like',
        'url': 'https://github.com/kjd/idna',
        'classifiers': [
            'Development Status :: 5 - Production/Stable',
            'Intended Audience :: Developers',
            'Intended Audience :: System Administrators',
            'License :: OSI Approved :: BSD License',
```

```

'Operating System :: OS Independent',
'Programming Language :: Python',
'Programming Language :: Python :: 2',
'Programming Language :: Python :: 2.7',
'Programming Language :: Python :: 3',
'Programming Language :: Python :: 3.4',
'Programming Language :: Python :: 3.5',
'Programming Language :: Python :: 3.6',
'Topic :: Internet :: Name Service (DNS)',
'Topic :: Software Development :: Libraries :: Python Modules',
'Topic :: Utilities',
],
'python_requires': '>=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*',
'test_suite': 'tests',
}

```

```

setup(**arguments)

```

```

if __name__ == '__main__':
    main()

```

Found in path(s):

```

* /opt/cola/permits/1110810307_1606855956.29/0/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/setup.py

```

# 1.366 ajv 6.10.0

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## 1.387 css-selector-tokenizer 0.7.0

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# 1.390 util-linux 2.35.1

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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.

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

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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 combine 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) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a



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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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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 materials to be 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.

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## 1.392 libaio 0.3.111

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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

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

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6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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a)

Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that

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

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

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Version 3, 29 June 2007

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## 1.396 asn1.js 2.0.19



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## 1.397 python-dateutil 2.7.3-1.ph3

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```
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```

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

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## 1.400 glibc 2.33

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@page

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

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## 1.408 msgpack 0.6.2

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It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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\* HTTPS patch (which inspired HTTPSConnectionPool)

\* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>

\* NTLM-authenticated HTTPSConnectionPool

\* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)

\* niphlod <[niphlod@gmail.com](mailto:niphlod@gmail.com)>

\* Client-verified SSL certificates for HTTPSConnectionPool

\* Response gzip and deflate encoding support

- \* Better unicode support for filepost using StringIO buffers
  
- \* btoconnor <brian@btoconnor.net>
  - \* Non-multipart encoding for POST requests
  
- \* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>
  - \* Code review, PEP8 compliance, benchmark fix
  
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  - \* Support for TLS SNI
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  - \* SSL fingerprint and alternative hostname verification
  - \* Bugfixes in testsuite
  
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- \* Bryce Boe <bbzbryce@gmail.com>
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  - \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
  - \* Allowed to skip SSL hostname verification

- \* Cory Benfield  
<<https://lukasa.co.uk/about/>>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- \* Added HTTPS (CONNECT) proxy support
  
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- \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <Martin.vGagern@gmx.net>
- \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>
- \* HTTPResponse.tell() for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <<https://dbrgn.ch/>>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in pyopenssl contrib module
- \* Configurable cipher suites in pyopenssl contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <<https://github.com/jschneier>>
- \* HTTPHeaderDict and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <<http://tahia.tk/>>
- \* Added Timeout examples in docs

- \* Arthur Grunseid <<https://grunseid.com>>
- \* source\_address support and tests (with <https://github.com/bui>)
  
- \* Ian Cordasco <[graffatcolmingov@gmail.com](mailto:graffatcolmingov@gmail.com)>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <[erik.tollerud@gmail.com](mailto:erik.tollerud@gmail.com)>
- \* Support for standard library io module.
  
- \* Krishna Prasad <[kprasad.iitd@gmail.com](mailto:kprasad.iitd@gmail.com)>
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- \* Benjamin Meyer <[bm\\_witness@yahoo.com](mailto:bm_witness@yahoo.com)>
- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <[github@sornars.com](mailto:github@sornars.com)>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <[alex.gaynor@gmail.com](mailto:alex.gaynor@gmail.com)>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <[ttomecek@redhat.com](mailto:ttomecek@redhat.com)>
- \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <<https://github.com/tlynn>>
- \* Respect the warning preferences at import.
  
- \* David D. Riddle <[ddriddle@illinois.edu](mailto:ddriddle@illinois.edu)>
- \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <[magicalgirl@google.com](mailto:magicalgirl@google.com)>
- \* App Engine environment tests.
- \* Documentation re-write.
  
- \* John Krauss <<https://github.com/talos>>
- \* Clues to debugging problems with `cryptography` dependency in docs
  
- \* Disassem <<https://github.com/Disassem>>
- \* Fix pool-default headers not applying for url-encoded

requests like GET.

\* James Atherfold <jlatherfold@hotmail.com>

\* Bugfixes relating to cleanup of connections during errors.

\* Christian Pedersen <https://github.com/chripede>

\* IPv6 HTTPS proxy bugfix

\* Jordan Moldow <https://github.com/jmoldow>

\* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.

\* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.

\* Creation of ``HTTPConnectionPool.ResponseCls``.

\* Predrag Gruevski <https://github.com/obi1kenobi>

\* Made cert digest comparison use a constant-time algorithm.

\* Adam Talsma <https://github.com/a-tal>

\* Bugfix to ca\_cert file paths.

\* Evan Meagher <https://evanmeagher.net>

\* Bugfix related to `memoryview` usage in PyOpenSSL adapter

\* John Vandenberg <jayvdb@gmail.com>

\* Python 2.6 fixes; pyflakes and pep8 compliance

\* Andy Caldwell <andy.m.caldwell@googlemail.com>

\* Bugfix related to reusing connections in indeterminate states.

\* Ville Skytt <ville.skytta@iki.fi>

\* Logging efficiency

improvements, spelling fixes, Travis config.

\* Shige Takeda <smtakeda@gmail.com>

\* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

\* Jess Shapiro <jesse@jesseshapiro.net>

\* Various character-encoding fixes/tweaks

\* Disabling IPv6 DNS when IPv6 connections not supported

\* David Foster <http://dafoster.net/>

\* Ensure order of request and response headers are preserved.

\* Jeremy Cline <jeremy@jcline.org>

\* Added connection pool keys by scheme

\* Aviv Palivoda <palaviv@gmail.com>

\* History list to Retry object.

\* HTTPResponse contains the last Retry object.



- \* Nate Prewitt <nate.prewitt@gmail.com>
- \* Ensure timeouts are not booleans and greater than zero.
- \* Fixed infinite loop in ``stream`` when amt=None.
- \* Added length\_remaining to determine remaining data to be read.
- \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
- \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <alex.dias@smarkets.com>
- \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <moin18@gmail.com>
- \* Lazily load idna package
  
- \* Tom White <s6yg1ez3@mail2tor.com>
- \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <tim.burke@gmail.com>
- \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
- \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <erik@mozilla.com>
- \* Bugfix to pyopenssl vendoring
  
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
- \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
  
- \* Mike Miller <github@mikeage.net>
- \* Logging improvements to include the HTTP(S) port when opening a new connection
  
- \* Ioannis Tziakos <mail@itziakos.gr>
- \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- \* Update appveyor tox setup to use the 64bit python.
  
- \* Akamai  
(through Jess Shapiro) <jshapiro@akamai.com>
- \* Ongoing maintenance; 2017-2018
  
- \* Dominique Leuenberger <dimstar@opensuse.org>
- \* Minor fixes in the test suite
  
- \* Will Bond <will@wbond.net>
- \* Add Python 2.6 support to ``contrib.securetransport``

- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
- \* using auth info for socks proxy
  
- \* Chris Wilcox <git@crwilcox.com>
- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
  
- \* Bruce Merry <https://www.brucemerry.org.za>
- \* Fix leaking exceptions when system calls are interrupted with zero timeout
  
- \* Hugo van Kemenade <https://github.com/hugovk>
- \* Drop support for EOL Python 2.6
  
- \* Tim Bell <https://github.com/timb07>
- \* Bugfix for responses with Content-Type: message/\* logging warnings
  
- \* Justin Bramley <https://github.com/jbramleycl>
- \* Add ability to handle multiple Content-Encodings
  
- \* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
- \* Remove Authorization header  
regardless of case when redirecting to cross-site
  
- \* James Meickle <https://permadeath.com/>
- \* Improve handling of Retry-After header
  
- \* Chris Jerdonek <chris.jerdonek@gmail.com>
- \* Remove a spurious TypeError from the exception chain inside  
HTTPConnectionPool.\_make\_request(), also for BaseExceptions.
  
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

## 1.414 python-pip 19.3.1

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team.

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

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|---------|--------------|------|-------|---------------------|
| 2.5     | 2.4          | 2006 | PSF   | yes                 |
| 2.5.1   | 2.5          | 2007 | PSF   | yes                 |
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| 2.6.3   | 2.6.2        | 2009 | PSF   | yes                 |
| 2.6.4   | 2.6.3        | 2009 | PSF   | yes                 |
| 2.6.5   | 2.6.4        | 2010 | PSF   | yes                 |
| 3.0     | 2.6          | 2008 | PSF   | yes                 |
| 3.0.1   | 3.0          | 2009 | PSF   | yes                 |
| 3.1     | 3.0.1        | 2009 | PSF   | yes                 |
| 3.1.1   | 3.1          | 2009 | PSF   | yes                 |
| 3.1.2   | 3.1.1        | 2010 | PSF   | yes                 |
| 3.1.3   | 3.1.2        | 2010 | PSF   | yes                 |
| 3.1.4   | 3.1.3        | 2011 | PSF   | yes                 |
| 3.2     | 3.1          | 2011 | PSF   | yes                 |
| 3.2.1   | 3.2          | 2011 | PSF   | yes                 |
| 3.2.2   | 3.2.1        | 2011 | PSF   | yes                 |
| 3.3     | 3.2          |      |       |                     |
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Python was created in the early 1990s by Guido van Rossum at Stichting  
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In 1995, Guido continued his work on Python at the Corporation for  
National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>)  
in Reston, Virginia where he released several versions of the  
software.

In May 2000, Guido and the Python core development team moved to  
BeOpen.com to form the BeOpen PythonLabs team. In October of the same  
year, the PythonLabs team moved to Digital Creations (now Zope  
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Foundation (PSF, see <http://www.python.org/psf/>) was formed, a  
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| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |
| 2.1.2          | 2002         | PSF       | yes        |                     |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
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| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
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| 2.5            | 2.4          | 2006      | PSF        | yes                 |
| 2.5.1          | 2.5          | 2007      | PSF        | yes                 |
| 2.5.2          | 2.5.1        | 2008      | PSF        | yes                 |
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#### A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived 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       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          |              |           |            |                     |

|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.1.2 | 2002  | PSF       | yes |     |
| 2.2.1 | 2.2   | 2002      | PSF | yes |
| 2.2.2 | 2.2.1 | 2002      | PSF | yes |
| 2.2.3 | 2.2.2 | 2003      | PSF | yes |
| 2.3   | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3   | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
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| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
| 2.5   | 2.4   | 2006      | PSF | yes |
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| 2.5.2 | 2.5.1 | 2008      | PSF | yes |
| 2.5.3 | 2.5.2 | 2008      | PSF | yes |
| 2.6   | 2.5   | 2008      | PSF | yes |
| 2.6.1 | 2.6   | 2008      | PSF | yes |
| 2.6.2 | 2.6.1 | 2009      | PSF | yes |
| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
| 2.6.5 | 2.6.4 | 2010      | PSF | yes |
| 3.0   | 2.6   | 2008      | PSF | yes |
| 3.0.1 | 3.0   | 2009      | PSF | yes |
| 3.1   | 3.0.1 | 2009      | PSF | yes |
| 3.1.1 | 3.1   | 2009      | PSF | yes |
| 3.1.2 | 3.1   | 2010      | PSF | yes |
| 3.2   | 3.1   | 2010      | PSF | yes |

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

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

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

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|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |

|       |           |           |     |     |
|-------|-----------|-----------|-----|-----|
| 2.1.1 | 2.1+2.0.1 | 2001      | PSF | yes |
| 2.2   | 2.1.1     | 2001      | PSF | yes |
| 2.1.2 | 2.1.1     | 2002      | PSF | yes |
| 2.1.3 |           |           |     |     |
| 2.1.2 | 2002      | PSF       | yes |     |
| 2.2.1 | 2.2       | 2002      | PSF | yes |
| 2.2.2 | 2.2.1     | 2002      | PSF | yes |
| 2.2.3 | 2.2.2     | 2003      | PSF | yes |
| 2.3   | 2.2.2     | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3       | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1     | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2     | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3     | 2004      | PSF | yes |
| 2.3.5 | 2.3.4     | 2005      | PSF | yes |
| 2.4   | 2.3       | 2004      | PSF | yes |
| 2.4.1 | 2.4       | 2005      | PSF | yes |
| 2.4.2 | 2.4.1     | 2005      | PSF | yes |
| 2.4.3 | 2.4.2     | 2006      | PSF | yes |
| 2.4.4 | 2.4.3     | 2006      | PSF | yes |
| 2.5   | 2.4       | 2006      | PSF | yes |
| 2.5.1 | 2.5       | 2007      | PSF | yes |
| 2.5.2 | 2.5.1     | 2008      | PSF | yes |
| 2.5.3 | 2.5.2     | 2008      | PSF | yes |
| 2.6   | 2.5       | 2008      | PSF | yes |
| 2.6.1 | 2.6       | 2008      | PSF | yes |
| 2.6.2 | 2.6.1     | 2009      | PSF | yes |
| 2.6.3 | 2.6.2     | 2009      | PSF | yes |
| 2.6.4 | 2.6.3     | 2009      | PSF | yes |
| 2.6.5 | 2.6.4     | 2010      | PSF | yes |
| 2.7   | 2.6       | 2010      | PSF | yes |

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| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
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| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
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| 2.5.3          | 2.5.2        | 2008      | PSF        | yes                 |
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|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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## 1.417 attrs 19.3.0

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This is a free and open source implementation of ASN.1 types and codecs

as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

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## Features

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\*

Generic implementation of ASN.1 types (X.208)

\* Standards compliant BER/CER/DER codecs

\* Dumps/loads ASN.1 structures from Python types

\* 100% Python, works with Python 2.4 up to Python 3.7

\* MT-safe

\* Contributed ASN.1 compiler [Asn1ate](<https://github.com/kimgr/asn1ate>)

## Why using pyasn1

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ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1.

[Communication between heterogeneous systems](<http://www.oss.com/asn1/dubuisson.html>)

by

Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

## How to use pyasn1

-----

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```

```bash
Record ::= SEQUENCE {
  id    INTEGER,
  room  [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```

```

Could be expressed in pyasn1 like this:

```

```python
class Record(Sequence):
    componentType = NamedTypes(
        NamedType('id', Integer()),
        OptionalNamedType(
            'room', Integer().subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
            )
        ),
        DefaultedNamedType(
            'house',
            Integer(0).subtype(
                implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
            )
        )
    )
```

```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form.

Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
```

```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())
>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
```

```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id':

```

```
123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
>>>
'''
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](<http://snmplabs.com/pyasn1/>), compiled ASN.1 modules for different protocols and file formats could be found in the pyasn1-modules [repo](<https://github.com/etingof/pyasn1-modules>).

How to get pyasn1

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The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](<http://snmplabs.com/pyasn1/license.html>). Source code is freely available as a GitHub [repo](<https://github.com/etingof/pyasn1>).

You could `pip install pyasn1` or download it from [PyPI](<https://pypi.org/project/pyasn1>).

If something does not work as expected, [open an issue](<https://github.com/etingof/pyasn1/issues>) at GitHub or post your question [on Stack Overflow](<https://stackoverflow.com/questions/ask>) or try browsing pyasn1 [mailing list archives](<https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/>).

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Found in path(s):  
\* /opt/cola/permits/1161616804\_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/README.md  
No license file was found, but licenses were detected in source scan.

ASN.1 library for Python

=====

```
.. toctree::
   :maxdepth: 1
```



Abstract Syntax Notation One (ASN.1

[http://en.wikipedia.org/wiki/Abstract\\_Syntax\\_Notation\\_1x](http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x)) is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1` <https://pypi.org/project/pyasn1/> library implements ASN.1 support in pure-Python.

What is ASN.1

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ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on it was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting discussions <https://news.ycombinator.com/item?id=8871453> on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers` <https://developers.google.com/protocol-buffers/> or `FlatBuffers` <https://google.github.io/flatbuffers/>, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

- \* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.
- \* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.
- \* Schema language: ASN.1 data structures could be described in terms

of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

## ASN.1 applications

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Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

- \* Signaling standards for the public switched telephone network (SS7 family)
- \* Network management standards (SNMP, CMIP)
- \* Directory standards (X.500 family, LDAP)
- \* Public Key Infrastructure standards (X.509, etc.)
- \* PBX control (CSTA)
- \* IP-based Videoconferencing (H.323 family)
- \* Biometrics (BIP, CBEFF, ACBio)
- \* Intelligent transportation (SAE J2735)
- \* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

## ASN.1 gotchas

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Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the ``statistics <http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`` on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

## Documentation

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```
.. toctree::  
    :maxdepth: 2  
  
    /pyasn1/contents
```

## Use case

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```
.. toctree::  
    :maxdepth: 2  
  
    /example-use-case
```

## Download & Install

-----

```
.. toctree::  
    :maxdepth: 2
```

/download

## Changes

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All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

```
..  
toctree::  
    :maxdepth: 1
```

/changelog

## License

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```
.. toctree::  
    :maxdepth: 2
```

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## Getting help

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Please, file your `issues` <<https://github.com/etingof/pyasn1/issues>>`\_` and `PRs` <<https://github.com/etingof/pyasn1/pulls>>`\_` at GitHub. Alternatively, you could ask for help at `Stack Overflow` <<http://stackoverflow.com/questions/tagged/pyasn1>>`\_` or search `pyasn1-users` <<https://lists.sourceforge.net/lists/listinfo/pyasn1-users>>`\_` mailing list archive.

## Books on ASN.1

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The pyasn1 implementation is largely based on reading up the following awesome books:

\* `ASN.1 - Communication between heterogeneous systems <<http://www.oss.com/asn1/dubuisson.html>>`\_ by Olivier Dubuisson

\* `ASN.1 Complete <<http://www.oss.com/asn1/resources/books-whitepapers-pubs/larmouth-asn1-book.pdf>>`\_ by Prof John Larmouth

Here you can get the official standards which is hard to read:

\* `ITU standards

<<http://www.itu.int/ITU-T/studygroups/com17/languages/X.680-X.693-0207w.zip>>`\_

On the other end of the readability spectrum, here is a quick and sweet write up:

\* `A Layman's Guide to a Subset of ASN.1, BER, and DER <<ftp://ftp.rsasecurity.com/pub/pkcs/ascii/layman.asc>>`\_ by Burton S. Kaliski

If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

Found in path(s):

\* /opt/cola/permits/1161616804\_1621638494.08/0/pyasn1-0-4-4-1-tar-gz/pyasn1-0.4.4/docs/source/contents.rst

## 1.423 urllib3 1.24.2

### 1.423.1 Available under license :

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## DEALINGS IN THE SOFTWARE.

# Contributions to the urllib3 project

## Creator & Maintainer

\* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

- \* victor.vde <<http://code.google.com/u/victor.vde/>>
- \* HTTPS patch (which inspired HTTPSConnectionPool)
  
- \* erikcederstrand <<http://code.google.com/u/erikcederstrand/>>
- \* NTLM-authenticated HTTPSConnectionPool
- \* Basic-authenticated HTTPSConnectionPool (merged into make\_headers)
  
- \* niphlod <niphlod@gmail.com>
- \* Client-verified SSL certificates for HTTPSConnectionPool
- \* Response gzip and deflate encoding support
- \* Better unicode support for filepost using StringIO buffers
  
- \* btoconnor <brian@btoconnor.net>
- \* Non-multipart encoding for POST requests
  
- \* p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>
- \* Code review, PEP8 compliance, benchmark fix
  
- \* kennethreitz <me@kennethreitz.com>
- \* Bugfixes, suggestions, Requests integration
  
- \* georgemarshall <<https://github.com/georgemarshall>>
- \* Bugfixes, Improvements and Test coverage
  
- \* Thomas Kluyver <thomas@kluyver.me.uk>
- \* Python 3 support
  
- \* brandon-rhodes <<http://rhodesmill.org/brandon>>
- \* Design review, bugfixes, test coverage.
  
- \* studer <theo.studer@gmail.com>
- \* IPv6 url support and test coverage
  
- \* Shivaram Lingamneni <slingamn@cs.stanford.edu>
- \* Support for explicitly closing pooled connections

- \* hartator <hartator@gmail.com>
- \* Corrected multipart behavior for params
  
- \* Thomas Weischuh <thomas@t-8ch.de>
- \* Support for TLS SNI
- \* API unification of ssl\_version/cert\_reqs
- \* SSL fingerprint and alternative hostname verification
- \* Bugfixes in testsuite
  
- \* Sune Kirkeby <mig@ibofobi.dk>
- \* Optional SNI-support for Python 2 via PyOpenSSL.
  
- \* Marc Schlaich <marc.schlaich@gmail.com>
- \* Various bugfixes and test improvements.
  
- \* Bryce Boe <bbzbryce@gmail.com>
- \* Correct six.moves conflict
- \* Fixed pickle support of some exceptions
  
- \* Boris Figovsky <boris.figovsky@ravellosystems.com>
- \* Allowed to skip SSL hostname verification
  
- \* Cory Benfield  
<<https://lukasa.co.uk/about/>>
- \* Stream method for Response objects.
- \* Return native strings in header values.
- \* Generate 'Host' header when using proxies.
  
- \* Jason Robinson <jaywink@basshero.org>
- \* Add missing WrappedSocket.fileno method in PyOpenSSL
  
- \* Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- \* Added HTTPS (CONNECT) proxy support
  
- \* Stephen Holsapple <sholsapp@gmail.com>
- \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <Martin.vGagern@gmx.net>
- \* Support for non-ASCII header parameters
  
- \* Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- \* Support for separate connect and request timeouts
  
- \* Peter Waller <p@pwaller.net>

- \* `HTTPResponse.tell()` for determining amount received over the wire
  
- \* Nipunn Koorapati <nipunn1313@gmail.com>
- \* Ignore default ports when comparing hosts for equality
  
- \* Danilo @dbrgn <https://dbrgn.ch/>
- \* Disabled TLS compression by default on Python 3.2+
- \* Disabled TLS compression in `pyopenssl` contrib module
- \* Configurable cipher suites in `pyopenssl` contrib module
  
- \* Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <nicolas.delaby@ezeep.com>
- \* Use the platform-specific CA certificate locations
  
- \* Josh Schneier <https://github.com/jschneier>
- \* `HTTPHeaderDict` and associated tests and docs
- \* Bugfixes, docs, test coverage
  
- \* Tahia Khan <http://tahia.tk/>
- \* Added Timeout examples in docs
  
- \* Arthur Grunseid <https://grunseid.com>
- \* `source_address` support and tests (with <https://github.com/bui>)
  
- \* Ian Cordasco <graffatcolmingov@gmail.com>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <erik.tollerud@gmail.com>
- \* Support for standard library `io` module.
  
- \* Krishna Prasad <kprasad.iitd@gmail.com>
- \* Google App Engine documentation
  
- \* Aaron Meurer  
<asmeurer@gmail.com>
- \* Added `Url.url`, which unparses a `Url`
  
- \* Evgeny Kapun <abacabadabacaba@gmail.com>
- \* Bugfixes
  
- \* Benjamin Meyer <bm\_witness@yahoo.com>
- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <github@sornars.com>
- \* Support for using `ConnectionPool` and `PoolManager` as context managers.

- \* Alex Gaynor <alex.gaynor@gmail.com>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <ttomecek@redhat.com>
- \* Implemented generator for getting chunks from chunked responses.
  
- \* tlynn <https://github.com/tlynn>
- \* Respect the warning preferences at import.
  
- \* David D. Riddle <ddriddle@illinois.edu>
- \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <magicalgirl@google.com>
- \* App Engine environment tests.
- \* Documentation re-write.
  
- \* John Krauss <https://github.com/talos>
- \* Clues to debugging problems with `cryptography` dependency in docs
  
- \* Disassem <https://github.com/Disassem>
- \* Fix pool-default headers not applying for url-encoded requests like GET.
  
- \* James Atherfold <jlatherfold@hotmail.com>
- \* Bugfixes relating to cleanup of connections during errors.
  
- \* Christian Pedersen <https://github.com/chripede>
- \* IPv6 HTTPS proxy bugfix
  
- \* Jordan Moldow <https://github.com/jmoldow>
- \* Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- \* Bugfix for ``ConnectionPool.urlopen(release\_conn=False)``.
- \* Creation of ``HTTPConnectionPool.ResponseCls``.
  
- \* Predrag Gruevski <https://github.com/obi1kenobi>
- \* Made cert digest comparison use a constant-time algorithm.
  
- \* Adam Talsma <https://github.com/a-tal>
- \* Bugfix to ca\_cert file paths.
  
- \* Evan Meagher <https://evanmeagher.net>
- \* Bugfix related to `memoryview` usage in PyOpenSSL adapter
  
- \* John Vandenberg <jayvdb@gmail.com>
- \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <andy.m.caldwell@googlemail.com>



- \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <ville.skytta@iki.fi>
  - \* Logging efficiencyimprovements, spelling fixes, Travis config.
  
- \* Shige Takeda <smtakeda@gmail.com>
  - \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jesse Shapiro <jesse@jesseshapiro.net>
  - \* Various character-encoding fixes/tweaks
  - \* Disabling IPv6 DNS when IPv6 connections not supported
  
- \* David Foster <http://dafoster.net/>
  - \* Ensure order of request and response headers are preserved.
  
- \* Jeremy Cline <jeremy@jcline.org>
  - \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <palaviv@gmail.com>
  - \* History list to Retry object.
  - \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <nate.prewitt@gmail.com>
  - \* Ensure timeouts are not booleans and greater than zero.
  - \* Fixed infinite loop in ``stream`` when amt=None.
  - \* Added length\_remaining to determine remaining data to be read.
  - \* Added enforce\_content\_length to raise exception when incorrect content-length received.
  
- \* Seth Michael Larson <sethmichaellarson@protonmail.com>
  - \* Created selectors backport that supports PEP 475.
  
- \* Alexandre Dias <alex.dias@smarkets.com>
  - \* Don't retry on timeout if method not in whitelist
  
- \* Moinuddin Quadri <moin18@gmail.com>
  - \* Lazily load idna package
  
- \* Tom White <s6yg1ez3@mail2tor.com>
  - \* Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.
  
- \* Tim Burke <tim.burke@gmail.com>
  - \* Stop buffering entire deflate-encoded responses.
  
- \* Tuukka Mustonen <tuukka.mustonen@gmail.com>
  - \* Add counter for status\_forcelist retries.
  
- \* Erik Rose <erik@mozilla.com>

- \* Bugfix to pyopenssl vendoring
  
- \* Wolfgang Richter <wolfgang.richter@gmail.com>
- \* Bugfix related to loading full certificate chains with PyOpenSSL backend.
  
- \* Mike Miller <github@mikeage.net>
- \* Logging improvements to include the HTTP(S) port when opening a new connection
  
- \* Ioannis Tziakos <mail@itziakos.gr>
- \* Fix ``util.selectors.\_fileobj\_to\_fd`` to accept ``long``.
- \* Update appveyor tox setup to use the 64bit python.
  
- \* Akamai  
(through Jesse Shapiro) <jshapiro@akamai.com>
- \* Ongoing maintenance
  
- \* Dominique Leuenberger <dimstar@opensuse.org>
- \* Minor fixes in the test suite
  
- \* Will Bond <will@wbond.net>
- \* Add Python 2.6 support to ``contrib.securetransport``
  
- \* Aleksei Alekseev <alekseev.yeskela@gmail.com>
- \* using auth info for socks proxy
  
- \* Chris Wilcox <git@crwilcox.com>
- \* Improve contribution guide
- \* Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior
  
- \* Bruce Merry <https://www.brucemerry.org.za>
- \* Fix leaking exceptions when system calls are interrupted with zero timeout
  
- \* Hugo van Kemenade <https://github.com/hugovk>
- \* Drop support for EOL Python 2.6
  
- \* Tim Bell <https://github.com/timb07>
- \* Bugfix for responses with Content-Type: message/\* logging warnings
  
- \* Justin Bramley <https://github.com/jbramleycl>
- \* Add ability to handle multiple Content-Encodings
  
- \* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
- \* Remove Authorization header regardless  
of case when redirecting to cross-site
  
- \* [Your name or handle] <[email or website]>
- \* [Brief summary of your changes]

# 1.424 cyrus-sasl 2.1.27

## 1.424.1 Available under license :

```
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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
 */
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## 1.427 loader-utils 1.2.3

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

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

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

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived 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	yes (2)



2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now	PSF		yes

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=====  
Advice for new contributors  
=====

New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

.. admonition:: Basic tools and workflow

If you are new to contributing to Django, the `:doc:`intro/contributing`` tutorial will give you an introduction to the tools and the workflow.

First steps

=====

Start with these easy tasks to discover Django's development process.

**\*\*Sign the Contributor License Agreement\*\***

The code that you write belongs to you or your employer. If your contribution is more than one or two lines of code, you need to sign the ``CLA`_`. See the ``Contributor License Agreement FAQ`_` for a more thorough explanation.

**\*\*Triage tickets\*\***

If an ``unreviewed ticket`_` reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at `:ref:`how-can-i-help-with-triaging``

**\*\*Look for tickets that are accepted and review patches to build familiarity with the codebase and the process\*\***

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. `:doc:`Run the tests </internals/contributing/writing-code/unit-tests>`` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

**\*\*Keep old patches up to date\*\***

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on `:doc:`writing-code/submitting-patches``.

**\*\*Write some documentation\*\***

Django's documentation is great but it can always be improved. Did you find

a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on `:doc:`writing-documentation``.

.. note::

The ``reports page`_` contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

.. `_reports page`: <https://code.djangoproject.com/wiki/Reports>

.. `_CLA`: <https://www.djangoproject.com/foundation/cla/>

.. `_Contributor License Agreement FAQ`: <https://www.djangoproject.com/foundation/cla/faq/>

.. `_unreviewed ticket`: <https://code.djangoproject.com/query?status=!closed&stage=Unreviewed>

## Guidelines

=====

As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

\* **Pick a subject**

area that you care about, that you are familiar with, or that you want to learn about

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

\* **Analyze tickets' context and history**

Trac isn't an absolute; the context is just as important as the words.

When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *hasn't* spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

\* **Start small**

It's easier to get feedback on a little issue than on a big one. See the ``easy pickings`_`.

\* **If you're going to engage in a big task, make sure that your idea has support first**

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

\* **Be bold! Leave feedback!**\*

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without **you**!

\* **Err on the side of caution when marking things Ready For Check-in**\*

If you're really not certain if a ticket is ready, don't mark it as such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

\* **Wait for feedback, and respond to feedback that you receive**\*

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

\* **Be rigorous**\*

When we say ":pep:8", and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. [\\_easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1](https://code.djangoproject.com/query?status=!closed&easy=1)

.. [\\_new-contributors-faq:](#)

FAQ

===

1. **This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?**

First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The

best thing to do is to  
send a gentle reminder to the |django-developers|  
mailing list asking for review on the ticket, or to bring it up in the  
`#django-dev` IRC channel.

2. **\*\*I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC  
myself?\***

Short answer: No. It's always better to get another set of eyes on a  
ticket. If you're having trouble getting that second set of eyes, see  
question 1, above.

#### A. HISTORY OF THE SOFTWARE

=====

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

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

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

All Python releases are Open Source (see <http://www.opensource.org> for  
the Open Source Definition). Historically, most, but not all, Python  
releases have also been GPL-compatible; the table below summarizes  
the various releases.

Release	Derived 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	yes (2)
2.1	2.0+1.6.1	2001	PSF	no

2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1	2001-now	PSF		yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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## 1.433 pyopenssl 19.1.0-2.ph4

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## 1.434 constantly 15.1.0-3.ph4

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## 1.435 incremental 17.5.0-2.ph4

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## 1.436 paramiko 2.7.2-1.ph4

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## 1.439 python3-asn1crypto 1.2.0

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## 1.444 pyasn1-modules 0.2.2-1.ph3

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## 1.452 openpyxl 2.5.6

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Metadata-Version: 1.2

Name: openpyxl

Version: 2.5.6

Summary: A Python library to read/write Excel 2010 xlsx/xlsm files

Home-page: <https://openpyxl.readthedocs.io>

Author: See AUTHORS

Author-email: [charlie.clark@clark-consulting.eu](mailto:charlie.clark@clark-consulting.eu)

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Description: .. image:: <https://coveralls.io/repos/bitbucket/openpyxl/openpyxl/badge.svg?branch=default>

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:alt: coverage status

## Introduction

-----

openpyxl is a Python library to read/write Excel 2010 xlsx/xlsm/xltx/xltn files.

It was born from lack of existing library to read/write natively from Python the Office Open XML format.

All kudos to the PHPExcel team as openpyxl was initially based on PHPExcel.

## Mailing List

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### The user

list can be found on <http://groups.google.com/group/openpyxl-users>

## Sample code::

```
from openpyxl import Workbook
wb = Workbook()

# grab the active worksheet
ws = wb.active

# Data can be assigned directly to cells
ws['A1'] = 42

# Rows can also be appended
ws.append([1, 2, 3])

# Python types will automatically be converted
import datetime
ws['A2'] = datetime.datetime.now()

# Save the file
wb.save("sample.xlsx")
```

## Documentation

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The documentation is at: <https://openpyxl.readthedocs.io>

- \* installation methods
- \* code examples
- \* instructions for contributing

Release notes: <https://openpyxl.readthedocs.io/en/stable/changes.html>

Platform: UNKNOWN

Classifier:

- Development Status :: 5 - Production/Stable
- Classifier: Operating System :: MacOS :: MacOS X
- Classifier: Operating System :: Microsoft :: Windows
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- Classifier: Programming Language :: Python :: 3.4
- Classifier: Programming Language :: Python :: 3.5
- Classifier: Programming Language :: Python :: 3.6
- Classifier: Programming Language :: Python :: 3.7
- Requires-Python: >=2.7, !=3.0.\*, !=3.1.\*, !=3.2.\*, !=3.3.\*

Found in path(s):

- \* /opt/cola/permits/1180985164\_1626381098.37/0/openpyxl-2-5-6-1-tar-gz/openpyxl-2.5.6/PKG-INFO
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## 1.454 django-rest-framework 3.8.2

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package licensing

```
import (  
    "context"  
    "crypto/hmac"  
    "crypto/sha256"  
    "encoding/base64"  
    "encoding/json"  
    "fmt"  
    "time"  
  
    "github.com/docker/libtrust"  
    "github.com/docker/licensing/lib/errors"  
    "github.com/docker/licensing/lib/go-clientlib"  
    "github.com/docker/licensing/model"  
)
```

```

func (c *client) getLicenseFile(ctx context.Context, subID string) (*model.IssuedLicense, error) {
    url := c.baseURI
    url.Path += fmt.Sprintf("/api/billing/v4/subscriptions/%s/license-file", subID)

    license := new(model.IssuedLicense)
    if _, _, err := c.doReq(ctx, "GET", &url, clientlib.RecvJSON(license)); err != nil {
        return nil, err
    }

    return license, nil
}

// Check verifies that the license identified by the given key id is valid. Note that it does not
// interrogate the contents of the license.
func (c *client) check(ctx context.Context, license model.IssuedLicense) (*model.CheckResponse, error) {
    keyID := license.KeyID
    privateKey := license.PrivateKey

    authorization, err := c.getAuthorization(ctx,
        license)
    if err != nil {
        return nil, err
    }

    // TODO: Mason - replace this parseJWS with a non libtrust lib
    signature, err := libtrust.ParseJWS(authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license parse JWS failed")
    }

    keys, err := signature.Verify()
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{
            "key_id": keyID,
        }, "license signature verification failed")
    }

    keyCnt := len(keys)
    if keyCnt != 1 {
        err = fmt.Errorf("unexpected number of signing keys (%d)", keyCnt)
        return nil, errors.WithStack(err).With(errors.Fields{
            "key_id": keyID,
        })
    }
}

```

```

key := keys[0]

if !c.recognizedSigningKey(key) {
    return nil, errors.New("unrecognized signing key")
}

payload, err := signature.Payload()
if err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "malformed signature payload")
}

checkRes := new(model.CheckResponse)

err = json.Unmarshal(payload, &checkRes)
if
err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    }, "license payload unmarshal failed")
}

msg := checkRes.Expiration.Format(time.RFC3339)
if err := checkToken(msg, checkRes.Token, privateKey); err != nil {
    return nil, errors.Wrapf(err, errors.Fields{
        "key_id": keyID,
    })
}

return checkRes, nil
}

// recognizedSigningKey returns true if the given key is signed with a recognized signing key, false otherwise
func (c *client) recognizedSigningKey(key libtrust.PublicKey) bool {
    for _, publicKey := range c.publicKeys {
        if key.KeyID() == publicKey.KeyID() {
            return true
        }
    }
    return false
}

// getAuthorization returns the decoded license authorization
func (c *client) getAuthorization(ctx context.Context, license model.IssuedLicense) ([]byte, error) {
    decoded, err := base64.StdEncoding.DecodeString(license.Authorization)
    if err != nil {
        return nil, errors.Wrapf(err, errors.Fields{

```



```

    "key_id": license.KeyID,
  }, "decoding license authorization
failed")
}
return decoded, nil
}

// All of the functions in this file assume that they are receiving a properly
// formatted private key.

// checkToken performs a MAC algorithm (where token is generated by hashing the
// message with the privateKey via GenerateToken) with the purpose of authenticating
// the validity of both the message and the private key of the person who generated
// the token.
func checkToken(message, token, privateKey string) error {
    tokenBytes, err := base64.URLEncoding.DecodeString(token)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    generatedToken, err := generateToken(message, privateKey)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    generatedBytes, err := base64.URLEncoding.DecodeString(generatedToken)
    if err != nil {
        return errors.Wrap(err, errors.Fields{"token": token})
    }

    if !hmac.Equal(tokenBytes, generatedBytes) {
        return errors.Forbidden(errors.Fields{"token": token},
"invalid token")
    }

    return nil
}

// generateToken generates a hash of the message with the privateKey via the
// sha256 algorithm.
func generateToken(message, privateKey string) (string, error) {
    key, err := base64.URLEncoding.DecodeString(privateKey)
    if err != nil {
        return "", errors.Wrap(err, errors.Fields{"msg": message})
    }

    h := hmac.New(sha256.New, key)
    h.Write([]byte(message))

```

```
return base64.URLEncoding.EncodeToString(h.Sum(nil)), nil
}
```

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

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package model

```
import "time"
```

```
// A CheckResponse is the internal content of the PublicCheckResponse signed  
// json blob.
```

```
type CheckResponse struct {  
    Expiration    time.Time `json:"expiration"`  
    Token         string   `json:"token"`  
    MaxEngines    int      `json:"maxEngines"`  
    ScanningEnabled bool     `json:"scanningEnabled"`  
    Type          string   `json:"licenseType"`  
    Tier          string   `json:"tier"`  
}
```

```
// IssuedLicense represents an issued license
```

```
type IssuedLicense struct {  
    KeyID         string `json:"key_id"`  
    PrivateKey    string `json:"private_key"`  
    Authorization string `json:"authorization"`  
}
```

```
// Valid returns true if the License is syntactically valid, false otherwise
```

```
func (l *IssuedLicense) Valid() (bool, string) {  
    if l.KeyID == "" {  
        return false, "empty key_id"  
    }  
}
```

```
if l.PrivateKey == "" {
    return false, "empty private_key"
}
```

```
if l.Authorization == "" {
    return false, "empty authorization"
}
```

```
return true, ""
}
```

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package engine

```
import (  
    "time"  
  
    "github.com/docker/cli/cli/command/formatter"  
    "github.com/docker/cli/internal/licenseutils"  
    "github.com/docker/licensing/model"  
)  
  
const (  
    defaultSubscriptionsTableFormat = "table  
{{.Num}}\t{{.Owner}}\t{{.ProductID}}\t{{.Expires}}\t{{.ComponentsString}}"  
    defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"  
  
    numHeader          = "NUM"  
    ownerHeader        = "OWNER"  
    licenseNameHeader  = "NAME"  
    idHeader           = "ID"  
    dockerIDHeader     = "DOCKER ID"  
    productIDHeader    = "PRODUCT ID"  
    productRatePlanHeader = "PRODUCT RATE PLAN"  
    productRatePlanIDHeader = "PRODUCT RATE PLAN ID"  
    startHeader        = "START"  
    expiresHeader       = "EXPIRES"  
    stateHeader        = "STATE"  
    eusaHeader         = "EUSA"  
    pricingComponentsHeader = "PRICING COMPONENTS"  
)
```

```

// NewSubscriptionsFormat returns a Format for rendering using a license Context
func NewSubscriptionsFormat(source string, quiet bool) formatter.Format
{
switch source {
case formatter.TableFormatKey:
if quiet {
return defaultSubscriptionsQuietFormat
}
return defaultSubscriptionsTableFormat
case formatter.RawFormatKey:
if quiet {
return `license: {{.ID}}`
}
return `license: {{.ID}}\nname: {{.Name}}\nowner: {{.Owner}}\ncomponents: {{.ComponentsString}}\n`
}
return formatter.Format(source)
}

// SubscriptionsWrite writes the context
func SubscriptionsWrite(ctx formatter.Context, subs []licenseutils.LicenseDisplay) error {
render := func(format func(subContext formatter.SubContext) error) error {
for _, sub := range subs {
licenseCtx := &licenseContext{trunc: ctx.Trunc, l: sub}
if err := format(licenseCtx); err != nil {
return err
}
}
return nil
}
licenseCtx := licenseContext{}
licenseCtx.Header = map[string]string{
"Num":      numHeader,
"Owner":    ownerHeader,
"Name":     licenseNameHeader,
"ID":       idHeader,
"DockerID": dockerIDHeader,
"ProductID":
productIDHeader,
"ProductRatePlan": productRatePlanHeader,
"ProductRatePlanID": productRatePlanIDHeader,
"Start":    startHeader,
"Expires":  expiresHeader,
"State":    stateHeader,
"Eusa":     eusaHeader,
"ComponentsString": pricingComponentsHeader,
}
return ctx.Write(&licenseCtx, render)
}

```

```

}

type licenseContext struct {
    formatter.HeaderContext
    trunc bool
    l licenseutils.LicenseDisplay
}

func (c *licenseContext) MarshalJSON() ([]byte, error) {
    return formatter.MarshalJSON(c)
}

func (c *licenseContext) Num() int {
    return c.l.Num
}

func (c *licenseContext) Owner() string {
    return c.l.Owner
}

func (c *licenseContext) ComponentsString() string {
    return c.l.ComponentsString
}

func (c *licenseContext) Summary() string {
    return c.l.String()
}

func (c *licenseContext) Name() string {
    return c.l.Name
}

func (c *licenseContext) ID() string {
    return c.l.ID
}

func (c *licenseContext) DockerID()
string {
    return c.l.DockerID
}

func (c *licenseContext) ProductID() string {
    return c.l.ProductID
}

func (c *licenseContext) ProductRatePlan() string {
    return c.l.ProductRatePlan
}

```

```

func (c *licenseContext) ProductRatePlanID() string {
    return c.l.ProductRatePlanID
}

func (c *licenseContext) Start() *time.Time {
    return c.l.Start
}

func (c *licenseContext) Expires() *time.Time {
    return c.l.Expires
}

func (c *licenseContext) State() string {
    return c.l.State
}

func (c *licenseContext) Eusa() *model.EusaState {
    return c.l.Eusa
}

func (c *licenseContext) PricingComponents() []model.SubscriptionPricingComponent {
    // Dereference the pricing component pointers in the pricing components
    // so it can be rendered properly with the template formatter

    var ret []model.SubscriptionPricingComponent
    for _, spc := range c.l.PricingComponents {
        if spc == nil {
            continue
        }
        ret = append(ret, *spc)
    }
    return ret
}

```

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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package engine

```
import (  
    "bytes"  
    "encoding/json"  
    "strings"  
    "testing"  
    "time"
```

```
"github.com/docker/cli/cli/command/formatter"
```

```
"github.com/docker/cli/internal/licenseutils"
```

```
"github.com/docker/licensing/model"
"gotest.tools/assert"
is "gotest.tools/assert/cmp"
)
```

```
func TestSubscriptionContextWrite(t *testing.T) {
cases := []struct {
context formatter.Context
expected string
}{
// Errors
{
formatter.Context{Format: "{{InvalidFunction}}"},
`Template parsing error: template: :1: function "InvalidFunction" not defined
`,
},
{
formatter.Context{Format: "{{nil}}"},
`Template parsing error: template: :1:2: executing "" at <nil>: nil is not a command
`,
},
// Table format
{
formatter.Context{Format: NewSubscriptionsFormat("table", false)},
`NUM          OWNER          PRODUCT ID    EXPIRES          PRICING COMPONENTS
1            owner1          productid1    2020-01-01 10:00:00 +0000 UTC  compstring
2
            owner2          productid2    2020-01-01 10:00:00 +0000 UTC  compstring
`,
},
{
formatter.Context{Format: NewSubscriptionsFormat("table", true)},
`1:License Name: name1 Quantity: 10 nodes Expiration date: 2020-01-01
2:License Name: name2 Quantity: 20 nodes Expiration date: 2020-01-01
`,
},
{
formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
`OWNER
owner1
owner2
`,
},
{
formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
`OWNER
owner1
owner2
`
}
```

```

`,
},
// Raw Format
{
  formatter.Context{Format: NewSubscriptionsFormat("raw", false)},
  `license: id1
name: name1
owner: owner1
components: compstring

license: id2
name: name2
owner: owner2
components: compstring

`,
},
{
  formatter.Context{Format: NewSubscriptionsFormat("raw", true)},
  `license: id1
license: id2
`,
},
// Custom Format
{
  formatter.Context{Format: NewSubscriptionsFormat("{{.Owner}}", false)},
  `owner1
owner2
`,
},
}

```

```

expiration,
_ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

```

```

for _, testcase := range cases {
subscriptions := []licenseutils.LicenseDisplay{
{
  Num: 1,
  Owner: "owner1",
  Subscription: model.Subscription{
    ID: "id1",
    Name: "name1",
    ProductID: "productid1",
    Expires: &expiration,
    PricingComponents: model.PricingComponents{
      &model.SubscriptionPricingComponent{
        Name: "nodes",

```

```

    Value: 10,
  },
},
},
ComponentsString: "compstring",
},
{
  Num: 2,
  Owner: "owner2",
  Subscription: model.Subscription{
    ID: "id2",
    Name: "name2",
    ProductID: "productid2",
    Expires: &expiration,
    PricingComponents: model.PricingComponents{
      &model.SubscriptionPricingComponent{
        Name: "nodes",
        Value: 20,
      },
    },
  },
  ComponentsString: "compstring",
},
}
out := &bytes.Buffer{}
testcase.context.Output
= out
err := SubscriptionsWrite(testcase.context, subscriptions)
if err != nil {
  assert.Error(t, err, testcase.expected)
} else {
  assert.Check(t, is.Equal(testcase.expected, out.String()))
}
}
}

func TestSubscriptionContextWriteJSON(t *testing.T) {
  expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")
  subscriptions := []licenseutils.LicenseDisplay{
    {
      Num: 1,
      Owner: "owner1",
      Subscription: model.Subscription{
        ID: "id1",
        Name: "name1",
        ProductID: "productid1",
        Expires: &expiration,
        PricingComponents: model.PricingComponents{

```



```

&model.SubscriptionPricingComponent{
  Name: "nodes",
  Value: 10,
},
},
},
ComponentsString: "compstring",
},
{
  Num: 2,
  Owner: "owner2",
  Subscription: model.Subscription{
    ID: "id2",
    Name: "name2",
    ProductID: "productid2",
    Expires: &expiration,
    PricingComponents: model.PricingComponents{
      &model.SubscriptionPricingComponent{
        Name:
"nodes",
        Value: 20,
      },
    },
  },
  ComponentsString: "compstring",
},
}
expectedJSONs := []map[string]interface{}{
{
  "Owner": "owner1",
  "ComponentsString": "compstring",
  "Expires": "2020-01-01T10:00:00Z",
  "DockerID": "",
  "Eusa": nil,
  "ID": "id1",
  "Start": nil,
  "Name": "name1",
  "Num": float64(1),
  "PricingComponents": []interface{}{
    map[string]interface{}{
      "name": "nodes",
      "value": float64(10),
    },
  },
  "ProductID": "productid1",
  "ProductRatePlan": "",
  "ProductRatePlanID": "",
  "State": "",
}
}

```

```

"Summary":      "License Name: name1\tQuantity: 10 nodes\tExpiration date: 2020-01-01",
},
{
"Owner":      "owner2",
"ComponentsString": "compstring",
"Expires":    "2020-01-01T10:00:00Z",
"DockerID":   "",
"Eusa":      nil,
"ID":        "id2",
"Start":     nil,
"Name":      "name2",
"Num":      float64(2),
"PricingComponents": []interface{}{
map[string]interface{}{
"name": "nodes",
"value": float64(20),
},
},
"ProductID":    "productid2",
"ProductRatePlan": "",
"ProductRatePlanID": "",
"State":       "",
"Summary":     "License Name: name2\tQuantity: 20 nodes\tExpiration date: 2020-01-01",
},
}

```

```

out := &bytes.Buffer{ }
err := SubscriptionsWrite(formatter.Context{Format: "{{json .}}", Output: out}, subscriptions)
if err != nil {
t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
var m map[string]interface{}
if err := json.Unmarshal([]byte(line), &m); err != nil {
t.Fatal(err)
}
assert.Check(t, is.DeepEqual(expectedJSONs[i], m))
}
}

```

```

func TestSubscriptionContextWriteJSONField(t *testing.T) {
subscriptions := []licenseutils.LicenseDisplay{
{Num: 1, Owner:
"owner1"},
{Num: 2, Owner: "owner2"},
}
out := &bytes.Buffer{ }

```

```

err := SubscriptionsWrite(formatter.Context{Format: "{{json .Owner}}", Output: out}, subscriptions)
if err != nil {
    t.Fatal(err)
}
for i, line := range strings.Split(strings.TrimSpace(out.String()), "\n") {
    var s string
    if err := json.Unmarshal([]byte(line), &s); err != nil {
        t.Fatal(err)
    }
    assert.Check(t, is.Equal(subscriptions[i].Owner, s))
}
}

```

# 1.456 python-dateutil 2.8.1-2.ph4

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dateutil - Extensions to the standard Python datetime module.

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## 1.457 python-certifi 2019.09.11

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

# 1.458 bridgeutils 1.6.0

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```
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```

```
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>>> frebsd-base64-4.8

>>> unicode-5.0

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>>> frebsd-base64-4.8

base64.c -- routines to encode/decode base64 data

\$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp \$ /

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## 1.465 parse-asn1 5.1.1

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# 1.466 python-certifi 2019.11.28

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

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@(#) \$RCSfile: certdata.txt,v \$

\$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

# 1.467 supports-color 5.3.0

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## 1.468 remove-trailing-separator 1.1

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## 1.469 procps 3.3.15

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Version 2, June 1991

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```
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This is free software, and you are welcome to redistribute
it
under certain conditions; type `show c' for details.
```

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```
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```

```
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<signature of Ty Coon>, 1 April 1990  
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## 1.470 msgpack-python 0.6.2

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```
# This is the official list of people who can contribute
# (and typically have contributed) code to the Go repository.
# The AUTHORS file lists the copyright holders; this file
# lists people. For example, Google employees are listed here
# but not in AUTHORS, because Google holds the copyright.
#
# Names should be added to this file only after verifying that
# the individual or the individual's organization has agreed to
# the appropriate Contributor License Agreement, found here:
#
# http://code.google.com/legal/individual-cla-v1.0.html
# http://code.google.com/legal/corporate-cla-v1.0.html
#
# The agreement for individuals can be filled out on the web.

# Names should be added to this file like so:
# Individual's name <submission email address>
# Individual's name <submission email address> <email2> <emailN>
#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized
# as the
# same person when interacting with Gerrit.

# Please keep the list sorted.
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## 1.489 packaging 16.8

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## 1.490 html5lib 1.0.1

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## 1.491 cssesc 0.1.0

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