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Contents

1.1 evp_bytestokey 1.0.3
   1.1.1 Available under license
1.2 ansi-styles 2.2.1
   1.2.1 Available under license
1.3 daphne 2.4.1
   1.3.1 Available under license
1.4 coreutils 8.31
   1.4.1 Available under license
1.5 underscore 1.8.3
   1.5.1 Available under license
1.6 constantly 15.1.0-3.ph4
   1.6.1 Available under license
1.7 babel-plugin-transform-es2015-destructuring 6.23.0
1.8 jdcal 1.4
   1.8.1 Available under license
1.9 chardet 3.0.4
   1.9.1 Available under license
1.10 css-selector-tokenizer 0.7.0
    1.10.1 Available under license
1.11 lodash 4.17.4
    1.11.1 Available under license
1.12 randomatic 1.1.7
    1.12.1 Available under license
1.13 babel-plugin-transform-es2015-modules-umd 6.24.1
1.14 pcre 8.44
    1.14.1 Available under license
1.15 chalk 2.3.2
   1.15.1 Available under license
1.16 babel-plugin-transform-es2015-sticky-regex 6.24.1
1.17 babylon 6.18.0
   1.17.1 Available under license
1.18 sqlite 3.30.1
1.19 user-home 1.1.1
   1.19.1 Available under license
1.20 is-equal-shallow 0.1.3
   1.20.1 Available under license
1.21 bridgeutils 1.6.0
   1.21.1 Available under license
1.22 jsonschema 2.5.1
   1.22.1 Available under license
1.23 pbkdf2 3.0.16
   1.23.1 Available under license
1.24 lvm2 2.02.185
   1.24.1 Available under license
1.25 odfpy 1.3.6
   1.25.1 Available under license
1.26 for-in 1.0.2
   1.26.1 Available under license
1.27 process-nextick-args 2.0.0
   1.27.1 Available under license
1.28 moment-duration-format 2.2.2
   1.28.1 Available under license
1.29 pyyaml 5.3
   1.29.1 Available under license
1.30 icss-replace-symbols 1.1.0
   1.30.1 Available under license
1.31 postcss-modules-local-by-default 1.2.0
   1.31.1 Available under license
1.32 python-dateutil 2.8.1-2.ph4
   1.32.1 Available under license
1.33 babel-types 6.26.0
1.34 minimist 0.0.8
   1.34.1 Available under license
1.35 babel-plugin-transform-es2015-duplicate-keys 6.24.1
1.36 nettle 3.5.1
<table>
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    1.163.1 Available under license
1.164 babel-plugin-transform-es2015-object-super 6.24.1
1.165 asn1.js 4.10.1
    1.165.1 Available under license
1.166 minimalistic-crypto-utils 1.0.1
1.167 regex-cache 0.4.4
    1.167.1 Available under license
1.168 linux-kernel 5.4.23
    1.168.1 Available under license
1.169 pyopenssl 19.1.0-2.ph4
    1.169.1 Available under license
1.170 packaging 19.1
    1.170.1 Available under license
1.171 fast-deep-equal 2.0.1
    1.171.1 Available under license
1.172 babel-runtime 6.26.0
1.173 postgresql 12.2
    1.173.1 Available under license
1.174 regjsgen 0.2.0
    1.174.1 Available under license
1.175 gojsonschema f06f290571ce81ab347174c6f7ad2e1865af41a7
    1.175.1 Available under license
1.176 source-list-map 2.0.1
    1.176.1 Available under license
1.177 source-map-support 0.4.18
    1.177.1 Available under license
1.178 babel-plugin-transform-strict-mode 6.24.1
1.179 babel-plugin-transform-es2015-for-of 6.23.0
1.180 supports-color 5.5.0
    1.180.1 Available under license
1.181 filename-regex 2.0.1
    1.181.1 Available under license
1.182 globals 9.18.0
    1.182.1 Available under license
1.183 crypto-browserify 3.12.0
    1.183.1 Available under license
1.184 ipython 7.10.2
1.184.1 Available under license

1.185 **libunistring 0.9.10**
1.185.1 Available under license

1.186 **libffi 3.3**
1.186.1 Available under license

1.187 **rsyslog 8.2006.0**
1.187.1 Available under license

1.188 **fast-json-stable-stringify 2.0.0**
1.188.1 Available under license

1.189 **repeating 2.0.1**
1.189.1 Available under license

1.190 **lua 5.1.5**
1.190.1 Available under license

1.191 **docker-cli 19.03.5**
1.191.1 Available under license

1.192 **wrappy 1.0.2**
1.192.1 Available under license

1.193 **gojsonreference e02fc20de94c78484cd5ffb007f8af96be030a45**
1.193.1 Available under license

1.194 **ntlm-auth 1.2.0**
1.194.1 Available under license

1.195 **for-own 0.1.5**
1.195.1 Available under license

1.196 **start-stop-daemon 1.18.10**
1.196.1 Available under license

1.197 **bind 9.11.13**
1.197.1 Available under license

1.198 **micromatch 2.3.11**
1.198.1 Available under license

1.199 **is-posix-bracket 0.1.1**
1.199.1 Available under license

1.200 **ajv 6.10.0**
1.200.1 Available under license

1.201 **pyasn1-modules 0.2.2-1.ph3**
1.201.1 Available under license

1.202 **bash 5.0.16**
1.202.1 Available under license

1.203 **sudo 1.8.31**
1.203.1 Available under license
1.204 babel-helper-define-map 6.26.0
1.205 babel-plugin-transform-es2015-template-literals 6.22.0
1.206 service-identity 18.1.0
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1.207 python-setuptools 41.2.0
   1.207.1 Available under license
1.208 os-tmpdir 1.0.2
   1.208.1 Available under license
1.209 binary-extensions 1.11.0
   1.209.1 Available under license
1.210 object.omit 2.0.1
   1.210.1 Available under license
1.211 backbone-computedfields 0.0.12
   1.211.1 Available under license
1.212 unicodecsv 0.14.1
   1.212.1 Available under license
1.213 hmac-drbg 1.0.1
1.214 billiard 3.6.1.0
   1.214.1 Available under license
1.215 djangorestframework 3.8.2
   1.215.1 Available under license
1.216 pendulum 2.0.4
   1.216.1 Available under license
1.217 ripemd160 2.0.2
   1.217.1 Available under license
1.218 browserify-cipher 1.0.1
   1.218.1 Available under license
1.219 dockerpty 0.4.1
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1.220 babel-helpers 6.24.1
1.221 backgrid-paginator 0.3.9
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1.225.1 Available under license
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  1.230.1 Available under license
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1.234 ndisc 1.0.4
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1.10 css-selector-tokenizer 0.7.0

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1.11 lodash 4.17.4

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1.12 randomatic 1.1.7

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1.13 babel-plugin-transform-es2015-modules-umd 6.24.1

1.14 pcre 8.44
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Written by: Philip Hazel
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1.15 chalk 2.3.2

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1.16 babel-plugin-transform-es2015-sticky-regex 6.24.1

1.17 babylon 6.18.0

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1.18 sqlite 3.30.1

1.19 user-home 1.1.1
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1.20 is-equal-shallow 0.1.3

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1.21 bridgeutils 1.6.0

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### 1.24 lvm2 2.02.185

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1.26 for-in 1.0.2

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1.27 process-nextick-args 2.0.0
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1.28 moment-duration-format 2.2.2

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1.29 pyyaml 5.3

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1.30 icss-replace-symbols 1.1.0

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1.31 postcss-modules-local-by-default 1.2.0

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1.32 python-dateutil 2.8.1-2.ph4

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dateutil - Extensions to the standard Python datetime module.

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1.33 babel-types 6.26.0

1.34 minimist 0.0.8

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1.35 babel-plugin-transform-es2015-duplicate-keys 6.24.1

1.36 nettle 3.5.1
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1.38 ldap-filters 2.2.2
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1.40 cyrus-sasl 2.1.27

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1.44 pkijs 2.1.10

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1.45 redis 5.0.7

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1.58 babel-plugin-transform-es2015-
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Julian Seward, Cambridge, UK.
jseward@bzip.org
bzip2/libbzip2 version 1.0.4 of 20 December 2006
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A. HISTORY OF THE SOFTWARE

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, 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.

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1.100 babel-helper-get-function-arity 6.24.1

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1.102 babel-cli 6.26.0

1.103 postcss-value-parser 3.3.0
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1.104 pytz 2018.5-2.ph3

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1.105 ajv-keywords 3.4.0

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1.108 normalize-path 2.1.1
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1.109 netcat 0.7.1
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1.111 open-ldap 2.4.48

1.112 is-number 3.0.0
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1.113 iptables 1.8.3

1.114 pyasn 0.1.9

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

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1.116 readable-stream 2.3.6

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1.117 jsonref 0.2
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1.119 js-tokens 3.0.2
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1.121 async-timeout 3.0.0

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1.125 core-js 2.5.5

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means
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$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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1.129 python-blessed 1.17.5

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1.132 dhcp 4.4.1

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3a0982da308228d796df35f98d787c5cfe2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

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

  Author: Julio Merino <jmmv84@gmail.com>

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

  Author: Julio Merino <jmmv84@gmail.com>
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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">
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</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text" select=""/>
    <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
      <xsl:call-template name="copyright.years">
        <xsl:for-each select="Copyright (C) "></xsl:for-each>
      </xsl:call-template>
    </xsl:for-each>
  </xsl:call-template>
</xsl:variable>
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This file is part of the lwIP TCP/IP stack.

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1.136 kombu 4.6.7

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1.137 json-schema-traverse 0.4.1

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1.138 wcwidth 0.1.7-2.ph3

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1.139 docker-engine 19.03.5
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1.140 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
License: MIT/Expat

Introduction
------------

openpyxl is a Python library to read/write Excel 2010 xlsx/xlsm/xlt/xltm 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
------------

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

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

* installation methods
* code examples
* instructions for contributing


Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Operating System :: MacOS :: MacOS X
Classifier: Operating System :: Microsoft :: Windows
Classifier: Operating System :: POSIX
Classifier: License :: OSI Approved :: MIT License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2.7
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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1.142 expand-brackets 0.1.5

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1.143 regenerate 1.3.3

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1.144 escape-string-regexp 1.0.5
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1.148 plotly-js-basic-dist 1.44.1

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1.151 libyaml 0.2.2

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1.153 bzip2 1.0.8

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1.155 python-dockerpty 0.4.1

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1.157 slash 1.0.0

1.158 fs-readdir-recursive 1.1.0
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1.160 python-ldap 3.1.0
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1.162 big.js 5.2.2

1.162.1 Available under license:

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1.163 schema-utils 0.4.7

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1.164 babel-plugin-transform-es2015-object-super 6.24.1

1.165 asn1.js 4.10.1

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1.166 minimalistic-crypto-utils 1.0.1

1.167 regex-cache 0.4.4
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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
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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
* M. Welsh, 6 July 1996
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1.176 source-list-map 2.0.1

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1.177 source-map-support 0.4.18
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1.178 babel-plugin-transform-strict-mode
6.24.1

1.179 babel-plugin-transform-es2015-for-of
6.23.0

1.180 supports-color 5.5.0
1.180.1 Available under license :
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1.181 filename-regex 2.0.1

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1.182 globals 9.18.0

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1.183 crypto-browserify 3.12.0

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1.184 ipython 7.10.2

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1.185 libunistring 0.9.10
1.185.1 Available under license :

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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.

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1.188 fast-json-stable-stringify 2.0.0

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Protocol Buffers for Go with Gadgets

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

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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" )

   // 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: name1Quantity: 10 nodesExpiration date: 2020-01-01
2:License Name: name2Quantity: 20 nodesExpiration date: 2020-01-01`,       },
expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

for _, testcase := range cases {
subscriptions := []licenseutils.LicenseDisplay{

formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", false)},
`OWNER
owner1
owner2
,
},

formatter.Context{Format: NewSubscriptionsFormat("table {{.Owner}}", true)},
`OWNER
owner1
owner2
,
},

// Raw Format

`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
,
},
}
func TestSubscriptionContextWriteJSON(t *testing.T) {
    expiration, _ := time.Parse(time.RFC822, "01 Jan 20 10:00 UTC")

    out := &bytes.Buffer{
        test:case.context.Output = out
        err := SubscriptionsWrite(test:case.context, subscriptions)
        if err != nil {
            assert.Error(t, err, test:case.expected)
        } else {
            assert.Check(t, is.Equal(test:case.expected, out.String()))
        }
    }

    Open Source Used In Cisco Meeting Management 3.4 815
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,
            },
            &model.SubscriptionPricingComponent{
                Name: "nodes",
                Value: 20,
            },
        },
        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: 10,
            },
            &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
Quantity: 10 nodes
Expiration 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
Quantity: 20 nodes
Expiration 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) {
submissions := []licenseutils.LicenseDisplay{
    {Num: 1, Owner: "owner1"},
    {Num: 2, Owner: "owner2"},
}
out := &bytes.Buffer{
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))
}
}

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package licensing

import (  "context"  "crypto/hmac"  "crypto/sha256"  "encoding/base64"  "encoding/json"  "fmt"
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.Wrap(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}}	{{.Owner}}	{{.ProductID}}	{{.Expires}}	{{.ComponentsString}}"

defaultSubscriptionsQuietFormat = "{{.Num}}:{{.Summary}}"
// 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}}
name: {{.Name}}
owner: {{.Owner}}
components: {{.ComponentsString}}
``
    }
    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{
        Header = map[string]string{
            "Num": numHeader,
            "Owner": ownerHeader,
        },
        ...
    }
    return render
}
"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
1 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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1.192 wrappy 1.0.2

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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, Vitezslav
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
Fryson, 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
Lakin, Eric
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
Miller, Dworkin
Nieuwma, 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
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Sato, Yuichi
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Sanders, Miguel
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Schuring, Arno
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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
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
Blittermann, 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
Keecci, Mehmet
Koirc, Klemen
Kozlov, Yuri
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Marchal, Frédéric
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1.204 babel-helper-define-map 6.26.0

1.205 babel-plugin-transform-es2015-template-literals 6.22.0

1.206 service-identity 18.1.0
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1.215 djangorestframework 3.8.2
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1.221 backgrid-paginator 0.3.9

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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.ceri.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.

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- Wichert Akkerman, 2012/02/02

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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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cabundle.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:
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1.241 libevent 2.1.11

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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

```javascript
URL.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

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

#### Resolving

```javascript
URL.resolve("uri://a/b/c/d?q", ".//g") === "uri://a/g"
```
### Normalizing

URI.normalize("HTTP://ABC.com:80/%7Esmit/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%en1]");
//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:

```javascript
//{
//  "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

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

#### URN UUID Support

URL.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:

```html
<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:

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

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

```javascript
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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* /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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function merge(...sets:Array<string>):string {
    if (sets.length > 1) {
        sets[0] = sets[0].slice(0, -1);
        const xl = sets.length - 1;
        for (let x = 1; x < xl; ++x) {
            sets[x] = sets[x].slice(1, -1);
        }
        sets[xl] = sets[xl].slice(1);
        return sets.join('');
    } else {
        return sets[0];
    }
}

function subexp(str:string):string {
    return "(?:" + str + ")";
}

function typeOf(o:any):string {
    return o === undefined ? "undefined" : (o === null ? "null" : Object.prototype.toString.call(o).split(" ").pop().split("[").shift().toLowerCase());
}

function toUpperCase(str:string):string {
    return str.toUpperCase();
}

function toArray(obj:any):Array<any> {
}

function assign(target: object, source: any): any {
    const obj = target as any;
    if (source) {
        for (const key in source) {
            obj[key] = source[key];
        }
    }
    return obj;
}
mapDomain(string, fn) {\n  const parts = string.split('@');\n  let result = '';\n  if (parts.length > 1) {\n    // In email addresses, only the domain name should be punycoded. Leave\n    // the local part (i.e. everything up to `@`) intact.\n    result = parts[0] + '@';\n    const labels = string.split('.');\n    const encoded = map(labels, fn).join('.');\n    result += encoded;\n  }\n  // Avoid `split(regex)` for IE8 compatibility. See \n  // #17.\n  string = string.replace(regexSeparators, '\x2E');\n  const labels = string.split('.');\n  const encoded = map(labels, fn).join('.');\n  return result + encoded;
}

/**\n * Creates an array containing the numeric code\n * points of each Unicode\n * character in the string. While JavaScript uses UCS-2 internally,\n * this function will create a proxy of surrogate characters (each of which \n * in UCS-2 exposes as separate characters) into a single code\n * point,\n * matching UTF-16.\n * \n * @see `punycode.ucs2.encode`\n */
function ucs2decode(string) {
  const output = [];\n  let counter = 0;\n  const length = string.length;\n  while (counter < length) {
    const value = string.charCodeAt(counter++);
    if (value >= 0xD800 && value <= 0xDBFF && counter < length) {
      const extra = string.charCodeAt(counter++);
      if ((extra & 0xFC00) == 0xDC00) { // Low\n        output.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);\n      } else { // It's an unmatched surrogate; only append this code unit, in case the\n        // next code unit is the high surrogate of a\n        // surrogate pair.\n        output.push(value);
        counter--;
      }
    } else {
      output.push(value);
    }
  }
  return output;
}

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

/**\n * Converts a\n * Punycode string of ASCII-only symbols to a string of Unicode\n * symbols.\n * \n * @param {String} input The Punycode string of ASCII-only symbols.\n * @returns {String} The resulting string of\n * Unicode symbols.\n */
const decode = function(input) {
  // Don't use UCS-2.\n  const output = [];\n  const inputLength = input.length;\n  let i = 0;\n  let n = initialN;\n  let bias = initialBias;\n  while (i < inputLength) {\n    const basic = ucs2decode(input.substr(i, 1));\n    if (basic <= 0 || basic > base0) {\n      error('not-basic');\n    }\n    output.push(basicToDigit(basic) + 0xFE00);\n    i += 1;\n  }
  return output.join('');
};
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` be the value of `i` at the beginning of the loop. The overflow checking is easier if we increase `i` as we go, then subtract off its starting value at the end to obtain `delta`.

```javascript
let oldi = i;
for (let w = 1, k = base; /* no condition */; k += base) {
    if (index >= inputLength) {
        error('invalid-input');
    }
    let digit = basicToDigit(input.charCodeAt(index++));
    if (digit >= base || digit > floor((maxInt - i) / w)) {
        error('overflow');
    }
    i += digit * w;
    const t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);
    const baseMinusT = base - t;
    if (digit < t) {
        break;
    }
    const baseMinusT = base - t;
    if (w > floor(maxInt / baseMinusT)) {
        error('overflow');
    }
    w *= baseMinusT;
}
const out = output.length + 1;
bias = adapt(i - oldi, out, oldi == 0);
if (floor(i / out) > maxInt - n) {
    error('overflow');
}
const delimiter = output.output.slice(i++, 0, n);
const return String.fromCharCodePoint(...output);
const **n * Converts a string of Unicode symbols (e.g. a domain name label) to a Punycode string of ASCII-only symbols.

```
removeDotSegments(input:string):string {
  \n  const output:Array<string> = [];
  \n  while (input.length) {
    if (input.match(RDS1)) {
      input = input.replace(RDS1, "}\";\"\";\"\";\"\"");
    } else if (input.match(RDS2)) {
      input = input.replace(RDS2, "}\"\";\"\";\"\";\"");
    } else if (input.match(RDS3)) {
      input = input.replace(RDS3, "\";\"\";\"\";\"");
      output.pop();
    } else if (input === "." || input === "..") {
      input = "";
    } else {
      const im = input.match(RDS5);
      if (im) {
        const s = im[0];
        input = input.slice(s.length);
        output.push(s);
      } else {
        throw new Error("Unexpected dot segment condition");
      }
    }
  }

  return output.join("");
}

export function serialize(components:URIComponents, options:URIOptions = { }):string {
  const protocol = (options.iri ? IRI_PROTOCOL : URI_PROTOCOL);
  const uriTokens:Array<string> = [];

  //find scheme handler
  const schemeHandler = SCHEMES[(options.scheme || components.scheme || "").toLowerCase()];

  //perform scheme specific serialization
  if (schemeHandler && schemeHandler.serialize) schemeHandler.serialize(components, options);

  if (components.host) {
    //if host component is an IPv6 address
    if (protocol.IPV6ADDRESS.test(components.host)) {
      //TODO: normalize IPv6 address as per RFC 5952
      const s = components.host;
      if (options.iri) {
        s = s.replace(/%2F/ig, "/\";\"\"");
      } else {
        s = s.replace(/%5F/ig, "/\";\"\"");
      }
      options.iri = true;
    }

    //if host component is a domain name
    else if (options.domainHost || (schemeHandler && schemeHandler.domainHost)) {
      const s = components.host;
      if (options.iri) {
        s = s.replace(/%2F/ig, "/\";\"\"");
      } else {
        s = s.replace(/%5F/ig, "/\";\"\"");
      }
      options.domainHost = true;
    }

    //normalize encoding
    normalizeComponentEncoding(components, protocol);

    if (options.reference !== "suffix" && components.scheme) {
      uriTokens.push(components.scheme);
      uriTokens.push(":");
    }

    const authority = _recomposeAuthority(components, options);
    if (authority !== undefined) {
      if (options.reference !== "suffix") {
        uriTokens.push("//");
      }
      uriTokens.push(authority);
      if (components.path && components.path.charAt(0) !== "/") {
        uriTokens.push("/");
      }
    }

    if (components.path !== undefined) {
      let s = components.path;
      if (!options.absolutePath && (!schemeHandler || !schemeHandler.absolutePath)) {
        s = removeDotSegments(s);
      }
      if (authority === undefined) {
        s = s.replace(/^\\//, "/%2F");
      }
      uriTokens.push(s);
    }

    if (components.query !== undefined) {
      uriTokens.push("?");
      uriTokens.push(components.query);
    }

    if (components.fragment !== undefined) {
      uriTokens.push("#");
      uriTokens.push(components.fragment);
    }

    return uriTokens.join("");
  }

  export function resolveComponents(base:URIComponents, relative:URIComponents, options:URIOptions = {}, skipNormalization?:boolean):URIComponents {
    const target:URIComponents = {};

    if (!skipNormalization) {
      base = parse(serialize(base, options), options);
      relative = parse(serialize(relative, options), options);
    }

    options = options || {};

    if (options.tolerant && relative.scheme) {
      target.scheme = relative.scheme;
      target.authority = relative.authority;
      target.userinfo = relative.userinfo;
      target.host = relative.host;
      target.path = removeDotSegments(relative.path);
    } else {
      if (relative.userinfo !== undefined || relative.host !== undefined || relative.port !== undefined) {
        target.userinfo = relative.userinfo;
        target.host = relative.host;
        target.port = relative.port;
        target.path = removeDotSegments(relative.path);
      } else {
        target.path = base.path;
      }

      if (relative.query !== undefined) {
        target.query = relative.query;
      }
    }

    return target;
}
const fields = []; for (const name in headers) {
    if (headers[name] !== O[name]) {
        fields.push(encodeURIComponent(name).replace(PCT_ENCODED, decodeURIComponent) + '=' + encodeURIComponent(headers[name]).replace(PCT_ENCODED, decodeURIComponent));
    }
}

return components.query = fields.join('&');

import { URISchemeHandler, URIComponents, URIOptions } from './scheme';
import { buildExps } from './regexps-uri';

const handler: URISchemeHandler = { uri: true, uri: true, uri: function (components: URIComponents, options: URIOptions) {
    return components;
},

serialize: function (components: URIComponents, options: URIOptions) {
    return components;
},
};

export default handler;
UUID_PARSE = /\[0-9A-Fa-f\]{36}/; UUID = /\[0-9A-Fa-f\]{8}(?:\-[0-9A-Fa-f\]{4}){3}\-[0-9A-Fa-f]{12}/;

//RFC 4122
const handler:URISchemeHandler<UUIDComponents, URIOptions, URNComponents> = {
  scheme: "urn:uuid",

  parse: function (urnComponents:URNComponents, options:URIOptions):UUIDComponents {
    const uuidComponents = urnComponents as UUIDComponents;
    uuidComponents.uuid = uuidComponents.nss;
    uuidComponents.nss = undefined;

    if (!options.tolerant && (!uuidComponents.uuid || !uuidComponents.uuid.match(UUID))) {
      uuidComponents.error = uuidComponents.error || "UUID is not valid.";
    }

    return uuidComponents;
  },

  serialize: function (uuidComponents:UUIDComponents, options:URIOptions):URNComponents {
    const urnComponents = uuidComponents as URNComponents;
    urnComponents.toLowerCase = function () {
      return urnComponents;
    }

    if (!options.tolerant) {
      if (!urnComponents.uuid || !urnComponents.uuid.match(UUID)) {
        urnComponents.error = urnComponents.error || "UUID is not valid.";
      }
    }

    return urnComponents;
  },
};

export default handler;
const URN_SCHEME = new RegExp("^urn://\w+\$\:\w+(?:\+\w+)-(?:\+\w+)\$|urn://\w+\$\:\w+(?:\+\w+)-(?:\+\w+)\$\:\w+$");

const URN_PATH = new RegExp("^urn://\w+\$\:\w+(?:\+\w+)-(?:\+\w+)\$\:\w+(?:\+\w+)-(?:\+\w+)\$\:\w+$");

const URN_EXCLUDED = new RegExp("^urn://\w+\$\:\w+(?:\+\w+)-(?:\+\w+)\$\:\w+(?:\+\w+)-(?:\+\w+)\$\:\w+(?:\+\w+)-(?:\+\w+)\$\:\w+$");

const URN_PARSE = new RegExp("^\([^\:\]+)\:\w+(?:\+\w+)-(?:\+\w+)\$\:\w+(?:\+\w+)-(?:\+\w+)\$\:\w+(?:\+\w+)-(?:\+\w+)\$\:\w+$\:\w+$");

const URN_EXCLUDED = new RegExp("^urn://\w+\$\:\w+(?:\+\w+)-(?:\+\w+)\$\:\w+(?:\+\w+)-(?:\+\w+)\$\:\w+(?:\+\w+)-(?:\+\w+)\$\:\w+$\:\w+$");

//RFC 2141
const handler:URISchemeHandler<URNComponents,URNOptions> = {
	scheme: "urn",
	parse: function (components:URIComponents, options:URNOptions):URNComponents {
		const

		matches = components.path && components.path.match(URN_PARSE);

		let urnComponents = components as URNComponents;

		if (matches) {

			const scheme = options.scheme || urnComponents.scheme || "urn";

			const nid = matches[1].toLowerCase();

			const nss = matches[2];

			const urnScheme = `${scheme}:${options.nid || nid}`;

			schemeHandler = SCHEMES[urnScheme];

			urnComponents.nid = nid;

			urnComponents.nss = nss;

			urnComponents.path = undefined;

			if (schemeHandler) {

				urnComponents = schemeHandler.parse(urnComponents, options) as URNComponents;

			}

		} else {

			urnComponents.error = urnComponents.error || "URN can not be parsed.";

			return return urnComponents;

		}

		return serialize(urnComponents, options);

	},

	serialize: function (urnComponents:URNComponents, options:URNOptions):URIComponents {

		const scheme = options.scheme || urnComponents.scheme || "urn";

		const nid = urnComponents.nid;

		const urnScheme = `${scheme}:${options.nid || nid}`;

		const schemeHandler = SCHEMES[urnScheme];

		if (schemeHandler) {

			urnComponents = schemeHandler.serialize(urnComponents, options) as URNComponents;

		}

		const uriComponents = urnComponents as URIComponents;

		const nss = urnComponents.nss;

		uriComponents.path = `${nid || options.nid}:${nss}`;

		return uriComponents;

};

export default handler;
```javascript
O[name]}) {'\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n\n```
RegExp,

```

const NOT_HOST : RegExp,
const NOT_PATH : RegExp,
const NOT_PATH_NOSCHEM : RegExp,
const NOT_QUERY : RegExp,
const NOT_FRAGMENT : RegExp,
const ESCAPE : RegExp,
const UNRESERVED : RegExp,
const OTHER_CHARS : RegExp,
const IPv4ADDRESS : RegExp,
const IPv6ADDRESS : RegExp,
```

```

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

};

export function pctEncChar(chr:string):string {
    const c = chr.charCodeAt(0);
    let e:string;

    if (c < 16)
        e = "%0" + c.toString(16);
    else if (c < 128)
        e = "%" + c.toString(16);
    else if (c < 2048)
        e = "%" + ((c >> 6) + 128).toString(16);
    else if (c < 65536)
        e = "%" + ((c >> 12) + 224).toString(16);
    else e = "%" + ((c >> 18) + 240).toString(16);

    return e;
}

function _normalizeComponentEncoding(components:URIComponents,
    protocol:URIRegExps) {
    function decodeUnreserved(str:string):string {
        const decStr =
            pctDecChars(str);
        return (!decStr.match(protocol.UNRESERVED) ? str : decStr);
    }

    if (components.scheme)
        components.scheme = String(components.scheme).replace(protocol.PCT_ENCODED,
            decodeUnreserved).toLocaleLowerCase().replace(protocol.NOT_SCHEME, pctEncChar).replace(protocol.PCT_ENCODED,
            toUpperCase);
    if (components.userinfo !== undefined)
        components.userinfo = String(components.userinfo).replace(protocol.PCT_ENCODED,
            decodeUnreserved).replace(protocol.NOT_USERINFO, pctEncChar).replace(protocol.PCT_ENCODED,
            toUpperCase);
    if (components.host !== undefined)
        components.host = String(components.host).replace(protocol.PCT_ENCODED,
            decodeUnreserved).toLocaleLowerCase().replace(protocol.NOT_HOST, pctEncChar).replace(protocol.PCT_ENCODED,
            toUpperCase);
    if (components.path !== undefined)
        components.path = String(components.path).replace(protocol.PCT_ENCODED,
            decodeUnreserved).replace((components.scheme ? protocol.NOT_PATH : protocol.NOT_PATH_NOSCHEM), pctEncChar).replace(protocol.PCT_ENCODED,
            toUpperCase);
    if (components.query !== undefined)
        components.query = String(components.query).replace(protocol.PCT_ENCODED,
            decodeUnreserved).replace(protocol.NOT_QUERY, pctEncChar).replace(protocol.PCT_ENCODED,
            toUpperCase);
    if (components.fragment !== undefined)
        components.fragment = String(components.fragment).replace(protocol.PCT_ENCODED,
            decodeUnreserved).replace(protocol.NOT_FRAGMENT, pctEncChar).replace(protocol.PCT_ENCODED,
            toUpperCase);
    return components;
};

function _stripLeadingZeros(str:string):string {
    return str.replace(/^0*(.*)/, "$1") || "0";
}

function _normalizeIPv4(host:string, protocol:URIRegExps):string {
    const matches = host.match(protocol.IPV4ADDRESS) || [];
    const [, address] = matches;
    if (address)
        return address.split(".").map(_stripLeadingZeros).join(".");
    else return host;
}

function _normalizeIPv6(host:string, protocol:URIRegExps):string {
    const matches = host.match(protocol.IPV6ADDRESS) || [];
    const [, address, zone] = matches;
    if (address) {
        const [last, first] = address.split(":").reverse();
        return first;  // firstField is lastField
    } else return host;
}

Open Source Used In Cisco Meeting Management 3.4 1127
protocol);\n\t\t}\n\n\t\tconst allZeroFields = fields.reduce<Array<{index:number,length:number}>>((acc, field,
index) => {\n\t\t\tif (!field || field === \"0\") {\n\t\t\t\tconst lastLongest = acc[acc.length - 1];\n\t\t\t\tif (lastLongest
&& lastLongest.index + lastLongest.length === index) {\n\t\t\t\t\tlastLongest.length++;\n\t\t\t\t} else
{\n\t\t\t\t\tacc.push({ index, length : 1 });\n\t\t\t\t}\n\t\t\t}\n\t\t\treturn acc;\n\t\t}, []);\n\n\t\tconst longestZeroFields =
allZeroFields.sort((a, b) => b.length - a.length)[0];\n\n\t\tlet newHost:string;\n\t\tif (longestZeroFields &&
longestZeroFields.length > 1) {\n\t\t\tconst newFirst = fields.slice(0, longestZeroFields.index) ;\n\t\t\tconst newLast
= fields.slice(longestZeroFields.index + longestZeroFields.length);\n\t\t\tnewHost = newFirst.join(\":\") + \"::\" +
newLast.join(\":\");\n\t\t} else {\n\t\t\tnewHost = fields.join(\":\");\n\t\t}\n\n\t\tif (zone) {\n\t\t\tnewHost += \"%\" +
zone;\n\t\t}\n\n\t\treturn newHost;\n\t} else {\n\t\treturn host;\n\t}\n}\n\nconst URI_PARSE =
/^(?:([^:\\/?#]+):)?(?:\\/\\/((?:([^\\/?#@]*)@)?(\\[[^\\/?#\\]]+\\]|[^\\/?#:]*)(?:\\:(\\d*))?))?([^?#]*)(?:\\?([^#]*))?(?:#((?:
.|\\n|\\r)*))?/i;\nconst NO_MATCH_IS_UNDEFINED = (<RegExpMatchArray>(\"\").match(/(){0}/))[1] ===
undefined;\n\nexport function parse(uriString:string, options:URIOptions = {}):URIComponents {\n\tconst
components:URIComponents = {};\n\tconst protocol = (options.iri !== false ? IRI_PROTOCOL :
URI_PROTOCOL);\n\n\tif (options.reference === \"suffix\") uriString = (options.scheme ? options.scheme + \":\" :
\"\") + \"//\" + uriString;\n\n\tconst matches = uriString.match(URI_PARSE);\n\n\tif (matches) {\n\t\tif
(NO_MATCH_IS_UNDEFINED) {\n\t\t\t//store each component\n\t\t\tcomponents.scheme =
matches[1];\n\t\t\tcomponents.userinfo = matches[3];\n\t\t\tcomponents.host = matches[4];\n\t\t\tcomponents.port =
parseInt(matches[5], 10);\n\t\t\tcomponents.path = matches[6] || \"\";\n\t\t\tcomponents.query =
matches[7];\n\t\t\tcomponents.fragment = matches[8];\n\n\t\t\t//fix port number\n\t\t\tif (isNaN(components.port))
{\n\t\t\t\tcomponents.port = matches[5];\n\t\t\t}\n\t\t} else { //IE FIX for improper RegExp matching\n\t\t\t//store
each component\n\t\t\tcomponents.scheme = matches[1] || undefined;\n\t\t\tcomponents.userinfo =
(uriString.indexOf(\"@\") !== -1 ? matches[3] : undefined);\n\t\t\tcomponents.host = (uriString.indexOf(\"//\") !== 1 ? matches[4] : undefined);\n\t\t\tcomponents.port = parseInt(matches[5], 10);\n\t\t\tcomponents.path = matches[6]
|| \"\";\n\t\t\tcomponents.query = (uriString.indexOf(\"?\") !== -1 ? matches[7] :
undefined);\n\t\t\tcomponents.fragment = (uriString.indexOf(\"#\") !== -1 ? matches[8] : undefined);\n\n\t\t\t//fix
port number\n\t\t\tif (isNaN(components.port)) {\n\t\t\t\tcomponents.port =
(uriString.match(/\\/\\/(?:.|\\n)*\\:(?:\\/|\\?|\\#|$)/) ? matches[4] : undefined);\n\t\t\t}\n\t\t}\n\n\t\tif (components.host)
{\n\t\t\t//normalize IP hosts\n\t\t\tcomponents.host = _normalizeIPv6(_normalizeIPv4(components.host, protocol),
protocol);\n\t\t}\n\n\t\t//determine reference type\n\t\tif (components.scheme === undefined &&
components.userinfo === undefined && components.host === undefined && components.port === undefined &&
!components.path && components.query === undefined) {\n\t\t\tcomponents.reference = \"same-document\";\n\t\t}
else if (components.scheme === undefined) {\n\t\t\tcomponents.reference = \"relative\";\n\t\t} else if
(components.fragment === undefined) {\n\t\t\tcomponents.reference = \"absolute\";\n\t\t} else
{\n\t\t\tcomponents.reference = \"uri\";\n\t\t}\n\n\t\t//check for reference errors\n\t\tif (options.reference &&
options.reference !== \"suffix\" && options.reference !== components.reference) {\n\t\t\tcomponents.error =
components.error || \"URI is not a \" + options.reference + \" reference.\";\n\t\t}\n\n\t\t//find scheme
handler\n\t\tconst schemeHandler = SCHEMES[(options.scheme || components.scheme ||
\"\").toLowerCase()];\n\n\t\t//check if scheme can't handle IRIs\n\t\tif (!options.unicodeSupport &&
(!schemeHandler || !schemeHandler.unicodeSupport)) {\n\t\t\t//if host component is a domain name\n\t\t\tif
(components.host && (options.domainHost || (schemeHandler && schemeHandler.domainHost))) {\n\t\t\t\t//convert
Unicode IDN -> ASCII IDN\n\t\t\t\ttry {\n\t\t\t\t\tcomponents.host =
punycode.toASCII(components.host.replace(protocol.PCT_ENCODED, pctDecChars).toLowerCase());\n\t\t\t\t}
catch (e) {\n\t\t\t\t\tcomponents.error = components.error || \"Host's domain name can not be converted to ASCII via
punycode: \" + e;\n\t\t\t\t}\n\t\t\t}\n\t\t\t//convert IRI -> URI\n\t\t\t_normalizeComponentEncoding(components,
URI_PROTOCOL);\n\t\t} else {\n\t\t\t//normalize encodings\n\t\t\t_normalizeComponentEncoding(components,
protocol);\n\t\t}\n\n\t\t//perform scheme specific parsing\n\t\tif (schemeHandler && schemeHandler.parse)
{\n\t\t\tschemeHandler.parse(components, options);\n\t\t}\n\t} else {\n\t\tcomponents.error = components.error ||
\"URI can not be parsed.\";\n\t}\n\n\treturn components;\n};\n\nfunction

Open Source Used In Cisco Meeting Management 3.4 1128


name or email address.

```javascript
function mapDomain(string, fn) {
    const parts = string.split('@');
    let result = '';
    if (parts.length > 1) {
        result = parts[0] + '@';
        string = parts[1];
    }
    string = string.replace(regexSeparators, '\x2E');
    const labels = string.split('.');
    const encoded = map(labels, fn).join('.');
    return result + encoded;
}

/**
 * Creates an array containing the numeric code points of each Unicode
 * character in the string. While JavaScript uses UCS-2 internally, this
 * function will convert a pair of surrogate halfs (each of which is
 * UCS-2 exposes as separate characters) into a single code
 * point.
 * matching UTF-16.
 * @param {Function} callback The function that gets called for every
 * character.
 * @returns {Array} A new string of characters returned by the callback
 * function.
 */
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) {
            const extra = string.charCodeAt(counter++);
            if ((extra & 0xFC00) == 0xDC00) {// Low
                output.push(((value & 0x3FF) << 10) + (extra & 0x3FF) + 0x10000);
            } else {
                output.push(value);
                counter--;
            }
        } else {
            output.push(value);
        }
    }
    return output;
}

/**
 * Creates a string based on an array of numeric code points.
 * @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);
```

(let index = basic > 0 ? basic + 1 : 0; index < inputLength; /* no final expression */) {\n\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\n\t\t\tif (index >= inputLength) {\n\t\t\t\terror('invalid-input');\n\t\t\t}\n\n\t\t\tconst digit =
basicToDigit(input.charCodeAt(index++));\n\n\t\t\tif (digit >= base || digit > floor((maxInt - i) / w))
{\n\t\t\t\terror('overflow');\n\t\t\t}\n\n\t\t\ti += digit * w;\n\t\t\tconst t = k <= bias ? tMin : (k >= bias + tMax ? tMax :
k - bias);\n\n\t\t\tif (digit < t) {\n\t\t\t\tbreak;\n\t\t\t}\n\n\t\t\tconst baseMinusT = base - t;\n\t\t\tif (w > floor(maxInt /
baseMinusT)) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\n\t\t\tw *= baseMinusT;\n\n\t\t}\n\n\t\tconst out = output.length +
1;\n\t\tbias = adapt(i - oldi, out, oldi == 0);\n\n\t\t// `i` was supposed to wrap around from `out` to `0`,\n\t\t//
incrementing `n` each time, so we'll fix that now:\n\t\tif (floor(i / out) > maxInt - n)
{\n\t\t\terror('overflow');\n\t\t}\n\n\t\tn += floor(i / out);\n\t\ti %= out;\n\n\t\t// Insert `n` at position `i` of the
output.\n\t\toutput.splice(i++, 0, n);\n\n\t}\n\n\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\n\t//
Convert the input in UCS-2 to an array of Unicode code points.\n\tinput = ucs2decode(input);\n\n\t// Cache the
length.\n\tlet inputLength = input.length;\n\n\t// Initialize the state.\n\tlet n = initialN;\n\tlet delta = 0;\n\tlet bias =
initialBias;\n\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\n\tlet basicLength = output.length;\n\tlet
handledCPCount = basicLength;\n\n\t// `handledCPCount` is the number of code points that have been handled;\n\t//
`basicLength` is the number of basic code points.\n\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 (handledCPCount
< inputLength) {\n\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\tm = currentValue;\n\t\t\t}\n\t\t}\n\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 handledCPCountPlusOne = handledCPCount + 1;\n\t\tif (m - n
> floor((maxInt - delta) / handledCPCountPlusOne)) {\n\t\t\terror('overflow');\n\t\t}\n\n\t\tdelta += (m - n) *
handledCPCountPlusOne;\n\t\tn = m;\n\n\t\tfor (const currentValue of input) {\n\t\t\tif (currentValue < n &&
++delta > maxInt) {\n\t\t\t\terror('overflow');\n\t\t\t}\n\t\t\tif (currentValue == n) {\n\t\t\t\t// Represent delta as a
generalized variable-length integer.\n\t\t\t\tlet q = delta;\n\t\t\t\tfor (let k = base; /* no condition */; k += base)
{\n\t\t\t\t\tconst t = k <= bias ? tMin : (k >= bias + tMax ? tMax : k - bias);\n\t\t\t\t\tif (q < t)
{\n\t\t\t\t\t\tbreak;\n\t\t\t\t\t}\n\t\t\t\t\tconst qMinusT = q - t;\n\t\t\t\t\tconst baseMinusT = base t;\n\t\t\t\t\toutput.push(\n\t\t\t\t\t\tstringFromCharCode(digitToBasic(t + qMinusT % baseMinusT,
0))\n\t\t\t\t\t);\n\t\t\t\t\tq = floor(qMinusT /
baseMinusT);\n\t\t\t\t}\n\n\t\t\t\toutput.push(stringFromCharCode(digitToBasic(q, 0)));\n\t\t\t\tbias = adapt(delta,
handledCPCountPlusOne, handledCPCount == basicLength);\n\t\t\t\tdelta =
0;\n\t\t\t\t++handledCPCount;\n\t\t\t}\n\t\t}\n\n\t\t++delta;\n\t\t++n;\n\n\t}\n\treturn output.join('');\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
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
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

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address.\n */\nconst toASCII = function(input) {\n\treturn mapDomain(input, function(string) {\n\t\treturn
regexNonASCII.test(string)\n\t\t\t? 'xn--' + encode(string)\n\t\t\t: string;\n\t});\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/javascriptencoding>\n\t * @memberOf punycode\n\t * @type Object\n\t */\n\t'ucs2': {\n\t\t'decode': ucs2decode,\n\t\t'encode':
ucs2encode\n\t},\n\t'decode': decode,\n\t'encode': encode,\n\t'toASCII': toASCII,\n\t'toUnicode':
toUnicode\n};\n\nexport default punycode;\n","import { URIRegExps } from \"./uri\";\nimport { buildExps } from
\"./regexps-uri\";\n\nexport default buildExps(true);\n","import { URIRegExps } from \"./uri\";\nimport { merge,
subexp } from \"./util\";\n\nexport function buildExps(isIRI:boolean):URIRegExps {\n\tconst\n\t\tALPHA$$ = \"[AZa-z]\",\n\t\tCR$ = \"[\\\\x0D]\",\n\t\tDIGIT$$ = \"[0-9]\",\n\t\tDQUOTE$$ = \"[\\\\x22]\",\n\t\tHEXDIG$$ =
merge(DIGIT$$, \"[A-Fa-f]\"), //case-insensitive\n\t\tLF$$ = \"[\\\\x0A]\",\n\t\tSP$$ =
\"[\\\\x20]\",\n\t\tPCT_ENCODED$ = subexp(subexp(\"%[EFef]\" + HEXDIG$$ + \"%\" + HEXDIG$$ +
HEXDIG$$ + \"%\" + HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%[89A-Fa-f]\" + HEXDIG$$ + \"%\" +
HEXDIG$$ + HEXDIG$$) + \"|\" + subexp(\"%\" + HEXDIG$$ + HEXDIG$$)),
//expanded\n\t\tGEN_DELIMS$$ = \"[\\\\:\\\\/\\\\?\\\\#\\\\[\\\\]\\\\@]\",\n\t\tSUB_DELIMS$$ =
\"[\\\\!\\\\$\\\\&\\\\'\\\\(\\\\)\\\\*\\\\+\\\\,\\\\;\\\\=]\",\n\t\tRESERVED$$ = merge(GEN_DELIMS$$,
SUB_DELIMS$$),\n\t\tUCSCHAR$$ = isIRI ? \"[\\\\xA0-\\\\u200D\\\\u2010-\\\\u2029\\\\u202F\\\\uD7FF\\\\uF900-\\\\uFDCF\\\\uFDF0-\\\\uFFEF]\" : \"[]\", //subset, excludes bidi control
characters\n\t\tIPRIVATE$$ = isIRI ? \"[\\\\uE000-\\\\uF8FF]\" : \"[]\", //subset\n\t\tUNRESERVED$$ =
merge(ALPHA$$, DIGIT$$, \"[\\\\-\\\\.\\\\_\\\\~]\", UCSCHAR$$),\n\t\tSCHEME$ = subexp(ALPHA$$ +
merge(ALPHA$$, DIGIT$$, \"[\\\\+\\\\-\\\\.]\") + \"*\"),\n\t\tUSERINFO$ = subexp(subexp(PCT_ENCODED$ +
\"|\" + merge(UNRESERVED$$, SUB_DELIMS$$, \"[\\\\:]\")) + \"*\"),\n\t\tDEC_OCTET$ =
subexp(subexp(\"25[0-5]\") + \"|\" + subexp(\"2[0-4]\" + DIGIT$$) + \"|\" + subexp(\"1\" + DIGIT$$ + DIGIT$$) +
\"|\" + subexp(\"[1-9]\" + DIGIT$$) + \"|\" + DIGIT$$),\n\t\tDEC_OCTET_RELAXED$ = subexp(subexp(\"25[05]\") + \"|\" + subexp(\"2[0-4]\" + DIGIT$$) + \"|\" + subexp(\"1\" + DIGIT$$ + DIGIT$$) + \"|\" + subexp(\"0?[19]\" + DIGIT$$) + \"|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(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(H16$ + \"\\\\:\") + \"{0,5}\" + H16$) + \"?\\\\:\\\\:\"
+ H16$ ), //[ *5( h16
\":\" ) h16 ] \"::\"
h16\n\t\tIPV6ADDRESS9$ = 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$) + \"+\"), //RFC 6874\n\t\tIPV6ADDRZ$ =

Open Source Used In Cisco Meeting Management 3.4 1133


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1135

"[\\:\@\\/\\?\"]\", "g"),
		ESCAPE : new RegExp(merge("[^"]", UNRESERVED$$, SUB_DELIMS$$), "g"),
		UNRESERVED : new RegExp(UNRESERVED$$, "g"),
		OTHER_CHARS : new
RegExp(PCT_ENCODED$$, "g"),
		IPv4ADDRESS : new RegExp("^\[(?:[^\\%]" + IPv4ADDRESS$ + "\]"),
subexp(subexp("\[(?:[^\\%]" + IPv6ADDRESS$ + "\]"), "g"),
		IPv6ADDRESS : new RegExp("^\[(?:[^\\%]" + IPv6ADDRESS$ + "\]"),
subexp(subexp("\[(?:[^\\%]" + IPv4ADDRESS$ + "\]"), "g"),
		IPv4ADDRESS$,
		IPv6ADDRESS$,
		ZONEIDS$,
		SAMEDOC_REF$,
		FRAGMENT$,
		ABSOLUTE_REF$,
		SCHEME$,
		PATH_ABEMPTY$,
		PATH_ABSOLUTE$,
		PATH_ROOTLESS$,
		PATH_EMPTY$,
		QUERY$,
		RELATIVE_REF$,
		PATH_NOSCHEME$,
		GENERIC_REF$,
		ABSOLUTE_URI$,
		HIER_PART$,
		URI_REFERENCE$,
		URI$,
		RELATIVE$,
		RELATIVE_PART$,
		AUTHORITY$,
		PCHAR$,
		PATH$,
		SEGMENT_NZ$,
		SEGMENT_NZ_NCS$,
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}
        }]
      ]
    })
  ],
  module: true,
  jsnext: true,
  preferBuiltins: false
};
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1.250 jsonschema 3.0.1

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1.251 libsodium 1.0.18

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1.253 emojis-list 2.1.0

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1.254 gojsonpointer
e0fe6f68307607d540ed8eac07a342c33fa1b54a

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1.258 postcss-modules-values 1.3.0

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1.259 urllib3 1.24.2

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## Contributors

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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>  
  * 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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  * 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

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  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>  
  * Corrected multipart behavior for params

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  * 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.

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* 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.

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* Add missing WrappedSocket.fileno method in PyOpenSSL

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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

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* 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>
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* 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

* Benjamen 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.

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  * Updates to the default SSL configuration

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* tlynn <https://github.com/tlynn>
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* 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 <jatherfold@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

* 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 vending

* 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]

---

1.260 backbone.marionette 3.4.4

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5. [6]Michael Barone <michael.barone@lmco.com> GPSVME fixes
6. [7]Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
7. [8]Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
8. [9]Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
9. [10]Piete Brooks <Piete.Brooks@e1.cam.ac.uk> MSF clock driver, Trimble PARSE support
10. [11]Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
11. [12]Jean-Francois Boudreault
<Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
12. [13]Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
13. [14]Steve Clift <clift@ml.csiro.au> OMEGA clock driver
14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help
    with target configuration
15. [16]Sven Dietrich <sven_dietrich@trimble.com> Palisade reference
    clock driver, NT adj. residuals, integrated Greg’s Winnt port.
17. [18]Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
18. [19]Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for
    NTP Version 2 as specified in RFC-1119
19. [20]John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
20. [21]Dave Hart <davehart@davehart.com> General maintenance, Windows
    port interpolation rewrite
21. [22]Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
22. [23]Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
23. [24]Mike Iglesias <iglesias@uci.edu> DEC Alpha port
24. [25]Jim Jugielski <jim@jagubox.gsfc.nasa.gov> A/UX port
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
27. [29]Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original
    author)
    (driver 14 reference clocks), STREAMS modules for PARSE, support
    scripts, syslog cleanup, dynamic interface handling
29. [32]Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote snntp to
    comply with NTPv4 specification, ntpq saveconfig
30. [33]William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX
    modifications, HPUX modifications
31. [34]Dave Katz <dkatz@cisco.com> RS/6000 AIX port
32. [35]Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppsclock, Magnavox
    GPS clock driver
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    code for Version 3 as specified in RFC-1305
    Maintenance
37. [40]David L. Mills <mills@udel.edu> Version 4 foundation, precision
    kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36
38. [41]Wolfgang Moeller <moeller@gwdgv1.dnet.gwdg.de> VMS port
39. [42]Jeffrey Mogul <mogul@pa.dec.com> ntptrace utility
40. [43]Tom Moore <tmoore@fievel.daytonoh.ncr.com> i386 svr4 port
41. [44]Kamal A Mostafa <kamal@whence.com> SCO OpenServer port
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 <shield@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
55. [59] Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp> TRAK clock driver
56. [60] Brian Utterback <brian.utterback@oracle.com> General codebase,
    Solaris issues
57. [61] Loganaden Velvindron <loganaden@gmail.com> Sandboxing
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    validated HTML documents according to the HTML DTD

References

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1.262 esutils 2.0.2

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1.269 docker-containerd 1.2.12

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

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

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Protocol Buffers for Go with Gadgets

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

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go-runhcs is a fork of go-runc

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1.270 setuptools-scm 3.3.3
1.270.1 Available under license :

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1.271 css-selector-tokenizer 0.7.1
1.271.1 Available under license :

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1.272 certifi 2019.11.28
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This package contains a modified version of ca-bundle.crt:

c-a-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:
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 $

1.273 asn1crypto 1.2.0
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1.274 isodate 0.6.0

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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
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Description:

ISO 8601 date/time parser

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
*yyyyMMdd*.

* datetime_isoformat:
  Intended to create ISO date-time strings with default format
  *yyyyMMddThhmmssZ*.

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

* tz_isoformat:
  Intended to create ISO time zone strings with default format
  *hhmm*.

* 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 todatetime 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 formating 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.
  - 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>`__)
  - 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]

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* /opt/cola/permits/1110810315_1606855982.37/0/isodate-0-6-0-1-tar-gz/isodate-0.6.0/src/isodate/tests/test_duration.py
1.275 minimatch 3.0.4

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1.276 wsaccel 0.6.2

1.277 repeat-string 1.6.1

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1.278 babel-helper-optimise-call-expression
6.24.1

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1.281 six 1.14.0

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1.286 babel-polyfill 6.26.0

1.287 python-dateutil 2.7.3-1.ph3

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1.288 is-binary-path 1.0.1

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1.289 ipython-genutils 0.2.0

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concluded that weaker conditions might promote sharing better.

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1.295 xz 5.2.4
1.295.1 Available under license:

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==============

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*Version 2.1, February 1999*

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1.298 libxml 2.9.10

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1.303 paramiko 2.6.0

1.304 msgpack 0.6.2
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1.308 soundex 0.2.1

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1.310 brace 1.8.5

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1.311 public-encrypt 4.0.2
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1.312 zlib 1.2.5
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/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017

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1.314 channels-redis 2.4.2

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1.317 diffie-hellman 5.0.3

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1.319 cryptography 3.3.2

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1.323 ptyprocess 0.6.0

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1.328 babel-helper-hoist-variables 6.24.1

1.329 vine 1.3.0
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1.337 has-ansi 2.0.0

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

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

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

## Install

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

## 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

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1.340 pytzdata 2019.1

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1.344 zlib 1.2.8

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* /opt/cola/permits/1170785299_1622700563.86/0/python-excel-xlrd-1-1-0-0-ge1930e4-1-tar-gz/python-excel-xlrd-e1930e4/xlrd/examples/xlrdnameAPIdemo.py

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1.347 is-primitive 2.0.0

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1.348 babel-plugin-transform-es2015-unicode-regex 6.24.1
1.349 kind-of 4.0.0

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1.353 mpdecimal 2.4.2

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1.355 regenerator-runtime 0.11.1

1.356 commander 2.15.1

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1.357 log-rotate 3.15.1

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>>> freebsd-base64-4.8
>>> unicode-5.0

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>>> freebsd-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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1.361 babel-plugin-transform-es2015-block-scoped-functions 6.22.0

1.362 babel-traverse 6.26.0

1.363 file-saver 1.3.3
1.363.1 Available under license :

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[1]: http://eligrey.com


1.365 pvutils 1.0.12

1.366 msgpack-python 0.6.2
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1.367 babel-generator 6.26.1

1.368 idna 2.8
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```bash
import io, sys
from setuptools import setup
```

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.
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-g1c2f175-1-tar-gz/kjd-idna-375dc46/setup.py
1.369 readdirp 2.1.0

1.369.1 Available under license:

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1.370 lunr 0.7.2

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1.371 zope-interface 4.6.0

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1.372 Jedi 0.12.1

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1.373 regexpu-core 2.0.0
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1.374 babel-plugin-transform-regenerator
6.26.0

1.375 pyhamcrest 1.9.0
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1.376 postcss-modules-scope 1.1.0

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1.400 responses 0.10.5

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1.401 django-bulk-update 1.1.10

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1.417 repeat-element 1.1.2

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1.424 convert-source-map 1.5.1
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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)
Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also 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 copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the 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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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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1.430 python-backports-ssl-match-hostname

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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
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the PSF.

All Python releases are Open Source (see http://www.opensource.org for
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releases have also been GPL-compatible; the table below summarizes
the various releases.

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

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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:
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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@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $Date: 2011/11/03 15:11:58 $
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Protocol Buffers for Go with Gadgets

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http://github.com/gogo/protobuf

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

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1.439 pyasn1 0.4.4-1.ph3

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ASN.1 library for Python
------------------------

Features
--------
* 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
-----------------

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:

```
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
-----------------

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
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Abstract Syntax Notation One (ASN.1) 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
------------

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 if 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
-------------------

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

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

.. toctree::
   :maxdepth: 2

   /pyasn1/contents

Use case
Open Source Used In Cisco Meeting Management 3.4

--------

.. toctree::
   :maxdepth: 2

/example-use-case

Download & Install

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Changes

-------

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::
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/changelog

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Getting help

----------

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

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


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


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`

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1.441 backbone.radio 2.0.0

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1.445 elliptic 6.4.1

1.446 json-c 0.99.8
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```markdown
/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.11, January 15th, 2017

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1.455 parse-asn1 5.1.1

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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 `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 `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

.. _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.

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

> Detect whether a terminal supports color

```sh
$ npm install --save supports-color
```

```js
var supportsColor = require('supports-color');

if (supportsColor) {
    console.log('Terminal supports color');
}
```

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

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

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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 SSLCA CertificateFile.#

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1.467 babel-plugin-transform-es2015-typeof-symbol 6.23.0

1.468 once 1.4.0
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1.469 backcall 0.1.0

1.470 simplegeneric 0.8.1
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Development Status :: 6 - Mature
Development Status :: 7 - Inactive
Intended Audience :: Developers
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Programming Language :: Python :: 2
Programming Language :: Python :: 2.4
Programming Language :: Python :: 2.5
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Programming Language :: Python :: 3
Operating System :: OS Independent
Topic :: Software Development :: Libraries :: Python Modules

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  * NTLM-authenticated HTTPSConnectionPool
  * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

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  * Client-verified SSL certificates for HTTPSConnectionPool
  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

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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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  * Optional SNI-support for Python 2 via PyOpenSSL.

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  * Fixed pickle support of some exceptions

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  * 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>
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  * 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

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  * Google App Engine documentation

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  * Added Url.url, which unparses a Url

* Evgeny Kapun <abacabadabacaba@gmail.com>
  * Bugfixes

* Benjamen 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

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  * 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 vending

* 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]

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1.479 sha.js 2.4.11

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1.484 backgrid-filter 0.3.7

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1.487 babel-template 6.26.0

1.488 string_decoder 1.1.1

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1.489 chardet 3.0.4-2.ph4

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1.492 remove-trailing-separator 1.1

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