



# Open Source Used In Remote PHY (version 10.1) 10.1

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Julian Seward, Cambridge, UK.

[jseward@acm.org](mailto:jseward@acm.org)

bzip2/libbzip2 version 1.0.2 of 30 December 2001

/\*

minibz2

libbz2.dll test program.

by Yoshioka Tsuneo ([tsuneo@rr.iij4u.or.jp](mailto:tsuneo@rr.iij4u.or.jp))

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```
usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]
*/
%%CreationDate: Wed Dec 22 1999
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```

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## 1.5 zeromq 4.3.2

### 1.5.1 Available under license :

wepoll - epoll for Windows

<https://github.com/piscisaureus/wepoll>

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## 1.7 redis 4.0.14

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## 1.8 libndp 1.7

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## 1.10 pylint 1.4.4

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```
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```

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```

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Version 3, 29 June 2007

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```
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```

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```
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## 1.14 tdb 1.3.16

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@c ispell-local-pdict: "ispell-dict"

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## 1.20 zlib 1.2.3

### 1.20.1 Available under license :

```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.1.4, March 11th, 2002
```

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Jean-loup Gailly      Mark Adler  
jloup@gzip.org      madler@alumni.caltech.edu

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

```
*/  
/* match.s -- Pentium-optimized version of longest_match()  
* Written for zlib 1.1.2  
* Copyright (C) 1998 Brian Raiter <breadbox@muppetlabs.com>  
*  
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*/
```

## 1.21 e2fsprogs 1.44.1

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\*/

Index: tdbsa/tdb.c

=====

--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

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- 
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```

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```

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

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```

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

That's all there is to it!

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

<http://sourceforge.net/projects/e2fsprogs>

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss command-line interface parsing library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

From the original distribution:

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#

# This is a Makefile stub which handles the creation of BSD shared libraries.

#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD\_LIB = \$(BSDLIB\_IMAGE).so.\$(BSDLIB\_VERSION)

BSDLIB\_PIC\_FLAG = -fpic

image: \$(BSD\_LIB)

\$(BSD\_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD\_LIB) \$(LDFLAGS\_SHLIB) \$(OBJS))

\$(MV) pic/\$(BSD\_LIB) .

\$(RM) -f ../\$(BSD\_LIB)

(cd ..; \$(LN) \$(LINK\_BUILD\_FLAGS) \

`echo \$(my\_dir) | sed -e 's/lib/;`"/\$(BSD\_LIB) \$(BSD\_LIB))

install-shlibs install:: \$(BSD\_LIB)

@echo " INSTALL\_PROGRAM \$(BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)"

@\$(INSTALL\_PROGRAM) \$(BSD\_LIB) \

\$(DESTDIR)\$ (BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)

@-\$(LDCONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::

\$(RM) -f \$(DESTDIR)\$ (BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)

clean::

\$(RM) -rf pic

\$(RM) -f \$(BSD\_LIB)

\$(RM) -f ../\$(BSD\_LIB)

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
[tsx-11.mit.edu/pub/linux/packages/ext2fs/](http://tsx-11.mit.edu/pub/linux/packages/ext2fs/)

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Gadi Oxman, August 1995

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Version 2, June 1991

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```
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```
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```

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## 1.22 fdisk 2.32.0

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## 1.23 gdbm 1.11

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## 1.24 python 2.7.18

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

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

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

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

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0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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NR START END SECTORS SIZE NAME UUID
1 32 7679 7648 3.7M 8f8378c0-01
2 7680 16383 8704 4.3M 8f8378c0-02
5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M
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43mI,5WEV @@ WEV @mImImIAmImImI0mImImI\*mImI  
A0mImImI...  
lost+found...

;9GimCN7g

!"#\$%&'()\*+,-  
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!"#\$%&'()\*+,-  
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include/bsd/stdlib.h

include/bsd/unistd.h

src/bsd\_getopt.c

src/err.c

src/fgetln.c

src/progname.c

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include/bsd/sys/queue.h  
include/bsd/sys/time.h  
include/bsd/timeconv.h  
include/bsd/vis.h  
man/bitstring.3bsd  
man/errc.3bsd  
man/explicit\_bzero.3bsd  
man/fgetln.3bsd  
man/fgetwln.3bsd  
man/fpurge.3bsd  
man/funopen.3bsd  
man/getbsize.3bsd  
man/heapsort.3bsd  
man/nlist.3bsd  
man/queue.3bsd  
man/radixsort.3bsd  
man/reallocarray.3bsd  
man/reallocf.3bsd  
man/setmode.3bsd  
man/strmode.3bsd  
man/strnstr.3bsd  
man/unvis.3bsd  
man/vis.3bsd  
man/wcslcpy.3bsd  
src/getbsize.c  
src/heapsort.c  
src/merge.c  
src/nlist.c  
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include/bsd/stringlist.h

man/fmtcheck.3bsd

man/humanize\_number.3bsd

man/stringlist.3bsd

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src/fmtcheck.c

src/humanize\_number.c

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man/closefrom.3bsd  
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man/getpeereid.3bsd  
man/pidfile.3bsd  
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src/fparsefn.c

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man/readpassphrase.3bsd  
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man/strtonum.3bsd  
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src/arc4random\_uniform.c  
src/arc4random\_unix.h  
src/closefrom.c  
src/getentropy\_aix.c  
src/getentropy\_bsd.c  
src/getentropy\_hpux.c  
src/getentropy\_hurd.c  
src/getentropy\_linux.c  
src/getentropy\_osx.c  
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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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## TERMS AND CONDITIONS

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#### 1. Source Code.

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## 1.28 u-boot 2016.01

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\* curve25519-donna: Curve25519 elliptic curve, public key function  
\*  
\* <http://code.google.com/p/curve25519-donna/>  
\*  
\* Adam Langley <agl@imperialviolet.org>  
\*  
\* Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>  
\*  
\* More information about curve25519 can be found here  
\* <http://cr.yp.to/ecdh.html>  
\*  
\* djb's sample implementation of curve25519 is written in a special assembly  
\* language called qhasm and uses the floating point registers.  
\*  
\* This is, almost, a clean room reimplementaion from the curve25519 paper. It  
\* uses many of the tricks described therein. Only the crecip function is taken  
\* from the sample implementation.  
\*/

## 1.31 opkg 2019-01-18

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=== Contributors ===

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# 1.35 protobuf-to-dict 0.1.0

## 1.35.1 Available under license :

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Metadata-Version: 1.1

Name: protobuf-to-dict

Version: 0.1.0

Summary: A teeny Python library for creating Python dicts from protocol buffers and the reverse. Useful as an intermediate step before serialisation (e.g. to JSON).

Home-page: <https://github.com/benhodgson/protobuf-to-dict>

Author: Ben Hodgson

Author-email: [ben@benhodgson.com](mailto:ben@benhodgson.com)

License: Public Domain

Description: UNKNOWN

Keywords: protobuf,json,dict

Platform: UNKNOWN

Classifier: Programming Language :: Python

Classifier: Development Status :: 4 - Beta

Classifier: Intended Audience :: Developers

Classifier: License :: Public Domain

Classifier: Operating System :: OS Independent

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

Found in path(s):

\* /opt/cola/permits/1158126119\_1619711498.13/0/protobuf-to-dict-0-1-0-1-tar-gz/protobuf-to-dict-0.1.0/src/protobuf\_to\_dict.egg-info/PKG-INFO

\* /opt/cola/permits/1158126119\_1619711498.13/0/protobuf-to-dict-0-1-0-1-tar-gz/protobuf-to-dict-0.1.0/PKG-INFO

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```
from setuptools import setup
```

```
setup(  
    name='protobuf-to-dict',  
    description='A teeny Python library for creating Python dicts from '  
        'protocol buffers and the reverse. Useful as an intermediate step '  
        'before serialisation (e.g. to JSON).',  
    version='0.1.0',  
    author='Ben Hodgson',  
    author_email='ben@benhodgson.com',  
    url='https://github.com/benhodgson/protobuf-to-dict',  
    license='Public Domain',  
    keywords=['protobuf', 'json', 'dict'],  
    install_requires=['protobuf>=2.3.0'],  
    package_dir={' ': 'src'},  
    py_modules=['protobuf_to_dict'],
```



```

setup_requires=['protobuf>=2.3.0', 'nose>=1.0', 'coverage', 'nosecover'],
test_suite = 'nose.collector',
classifiers=[
    'Programming Language :: Python',
    'Development Status :: 4 - Beta',
    'Intended Audience :: Developers',
    'License :: Public Domain',
    'Operating System :: OS Independent',
    'Topic :: Software Development :: Libraries :: Python Modules',
],
)

```

Found in path(s):

\* /opt/cola/permits/1158126119\_1619711498.13/0/protobuf-to-dict-0-1-0-1-tar-gz/protobuf-to-dict-0.1.0/setup.py

## 1.36 zlib 1.2.11

### 1.36.1 Available under license :

```

/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017

```

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

```

*/

```

# 1.37 glibc 2.30

## 1.37.1 Available under license :

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@center Version 2.1, February 1999

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```
@c Local Variables:  
@c ispell-local-pdict: "ispell-dict"  
@c End:
```

## 1.38 lua 5.1.5

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Found in path(s):

```
* /opt/cola/permits/1156185735_1619141854.94/0/kjd-idna-v2-1-0-gcb8ae9a-1-tar-gz/kjd-idna-45839b9/LICENSE.rst
```

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"""

A library to support the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5890 et.al. This new methodology, known as IDNA2008, can generate materially different results to the previous standard. The library can act as a drop-in replacement for the "encodings.idna" module.

"""

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

```
version = "2.1"
```

```
def main():
```

```
    python_version = sys.version_info[:2]
    if python_version < (2,6):
        raise SystemExit("Sorry, Python 2.6 or newer required")
```

```
    arguments = {
        'name': 'idna',
        'packages': ['idna'],
        'version': 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 :: 2.6',
    'Programming Language :: Python :: 2.7',
    'Programming Language :: Python :: 3',
    'Programming Language :: Python :: 3.3',
    'Programming Language :: Python :: 3.4',
    'Topic :: Internet :: Name Service (DNS)',
    'Topic :: Software Development :: Libraries :: Python Modules',
    'Topic :: Utilities',
],
'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

```

Found in path(s):

\* /opt/cola/permits/1156185735\_1619141854.94/0/kjd-idna-v2-1-0-gcb8ae9a-1-tar-gz/kjd-idna-45839b9/setup.py

## 1.42 protobuf 3.6.1

## 1.43 fysom 2.1.2

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- \* /opt/cola/permits/1158126133\_1619711509.17/0/fysom-2-1-2-1-tar-gz/fysom-2.1.2/test/test\_state.py
- \* /opt/cola/permits/1158126133\_1619711509.17/0/fysom-2-1-2-1-tar-gz/fysom-2.1.2/test/test\_garbage\_collection.py
- \* /opt/cola/permits/1158126133\_1619711509.17/0/fysom-2-1-2-1-tar-gz/fysom-2.1.2/test/test\_async\_state\_transition.py
- \* /opt/cola/permits/1158126133\_1619711509.17/0/fysom-2-1-2-1-tar-gz/fysom-2.1.2/test/test\_initialization.py
- \* /opt/cola/permits/1158126133\_1619711509.17/0/fysom-2-1-2-1-tar-gz/fysom-2.1.2/test/test\_many\_to\_many.py
- \* /opt/cola/permits/1158126133\_1619711509.17/0/fysom-2-1-2-1-tar-gz/fysom-2.1.2/test/test\_same\_dst.py
- \* /opt/cola/permits/1158126133\_1619711509.17/0/fysom-2-1-2-1-tar-gz/fysom-2.1.2/test/test\_finished\_state.py
- \* /opt/cola/permits/1158126133\_1619711509.17/0/fysom-2-1-2-1-tar-gz/fysom-2.1.2/test/test\_callbacks.py
- \* /opt/cola/permits/1158126133\_1619711509.17/0/fysom-2-1-2-1-tar-gz/fysom-2.1.2/test/test\_wildcard.py

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classifiers = ['Development Status :: 5 - Production/Stable', 'Intended Audience :: Developers', 'License :: OSI Approved :: MIT License', 'Programming Language :: Python', 'Natural Language :: English', 'Operating System :: OS Independent', 'Topic :: Scientific/Engineering'],

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Metadata-Version: 1.1

Name: fysom

Version: 2.1.2

Summary: pYthOn Finite State Machine

Home-page: <https://github.com/mriehl/fysom>

Author: Mansour Behabadi, Jake Gordon, Maximilien Riehl, Stefano

Author-email: mansour@oxplot.com, jake@codeincomplete.com, maximilien.riehl@gmail.com,

License: MIT

Description: UNKNOWN

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

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```
.. image:: https://travis-ci.org/mriehl/fysom.png?branch=master
:alt: Travis build status image
:align: left
:target: https://travis-ci.org/mriehl/fysom
```

```
.. image:: https://coveralls.io/repos/mriehl/fysom/badge.png?branch=master
:target: https://coveralls.io/r/mriehl/fysom?branch=master
:alt: Coverage status
```

```
.. image:: https://badge.fury.io/py/fysom.png
:target: https://badge.fury.io/py/fysom
:alt: Latest PyPI version
```

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=====

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## Synopsis

=====

This is basically Mansours' implementation with unit tests and a build process added. It's also on PyPi (`pip install fysom`). Fysom is built and tested on python 2.6 to 3.3 and PyPy.

## Installation

=====

From your friendly neighbourhood cheeseshop

-----

```
::
```

```
pip install fysom
```

## Developer setup

-----

This module uses `PyBuilder <<http://pybuilder.github.io>>`\_.

```
::
```

```
sudo pip install pyb_init
pyb-init github mriehl : fysom
```

## Running the tests

-----

::

```
pyb verify
```

## Generating and using a setup.py

-----

::

```
pyb
cd target/dist/fysom-$VERSION
./setup.py bdist_rpm #build RPM
```

## Looking at the coverage

-----

::

```
pyb
cat target/reports/coverage
```

## USAGE

=====

### Basics

-----

::

```
from fysom import Fysom

fsm = Fysom({ 'initial': 'green',
              'events': [
                  {'name': 'warn', 'src': 'green', 'dst': 'yellow'},
                  {'name': 'panic', 'src': 'yellow', 'dst': 'red'},
                  {'name': 'calm', 'src': 'red', 'dst': 'yellow'},
                  {'name': 'clear', 'src': 'yellow', 'dst': 'green'} ] })
```

... will create an object with a method for each event:

- fsm.warn() - transition from 'green' to 'yellow'
- fsm.panic() - transition from 'yellow' to 'red'
- fsm.calm() - transition from 'red' to 'yellow'



- fsm.clear() - transition from 'yellow' to 'green'

along with the following members:

- fsm.current - contains the current state
- fsm.isstate(s) - return True if state s is the current state
- fsm.can(e) - return True if event e can be fired in the current state
- fsm.cannot(e) - return True if event s cannot be fired in the current state

### Shorter Syntax

-----

It's possible to define event transitions as 3-tuples (event name, source state, destination state) rather than dictionaries.

`Fysom` constructor accepts also keyword arguments `initial`, `events`, `callbacks`, and `final`.

This is a shorter version of the previous example::

```
fsm = Fysom(initial='green',
            events=[('warn', 'green', 'yellow'),
                   ('panic', 'yellow', 'red'),
                   ('calm', 'red', 'yellow'),
                   ('clear', 'yellow', 'green')])
```

### Initialization

-----

How the state machine should initialize can depend on your application requirements, so the library provides a number of simple options.

By default, if you don't specify any initial state, the state machine will be in the 'none' state and you would need to provide an event to take it out of this state:

::

```
fsm = Fysom({'events': [
    {'name': 'startup', 'src': 'none', 'dst': 'green'},
    {'name': 'panic', 'src': 'green', 'dst': 'red'},
    {'name': 'calm', 'src': 'red', 'dst': 'green'}]})
print fsm.current # "none"
fsm.startup()
print fsm.current # "green"
```

If you specify the name of your initial event (as in all the earlier

examples), then an implicit 'startup' event will be created for you and fired when the state machine is constructed:

::

```
fsm = Fysom({'initial': 'green',
            'events': [
                {'name': 'panic', 'src': 'green', 'dst': 'red'},
                {'name': 'calm', 'src': 'red', 'dst': 'green'}]})
print fsm.current # "green"
```

If your object already has a startup method, you can use a different name for the initial event:

::

```
fsm = Fysom({'initial': {'state': 'green', 'event': 'init'},
            'events': [
                {'name': 'panic', 'src': 'green', 'dst': 'red'},
                {'name': 'calm', 'src': 'red', 'dst': 'green'}]})
print fsm.current # "green"
```

Finally, if you want to wait to call the initial state transition event until a later date, you can defer it:

::

```
fsm = Fysom({'initial': {'state': 'green', 'event': 'init', 'defer': True},
            'events': [
                {'name': 'panic', 'src': 'green', 'dst': 'red'},
                {'name': 'calm', 'src': 'red', 'dst': 'green'}]})
print fsm.current # "none"
fsm.init()
print fsm.current # "green"
```

Of course, we have now come full circle, this last example pretty much functions the same as the first example in this section where you simply define your own startup event.

So you have a number of choices available to you when initializing your state machine.

You can also indicate which state should be considered final.

This has no effect on the state machine, but lets you use a shorthand method `is_finished()` that returns true if the state machine is in this 'final' state:

::

```
fsm = Fysom({'initial': 'green',
            'final': 'red',
            'events': [
```

```

        {'name': 'panic', 'src': 'green', 'dst': 'red'},
        {'name': 'calm', 'src': 'red', 'dst': 'green'}}])
print fsm.current # "green"
fsm.is_finished() # False
fsm.panic()
fsm.is_finished() # True

```

#### Dynamically generated event names

-----

Sometimes you have to compute the name of an event you want to trigger on the fly. Instead of relying on `getattr`` you can use the `trigger`` method, which takes a string (the event name) as a parameter, followed by any arguments/keyword arguments you want to pass to the event method.

This is also arguably better if you're not sure if the event exists at all (FysomError vs. AttributeError, see below).

::

```

from fysom import Fysom

fsm = Fysom({'initial': 'green',
            'events': [
                {'name': 'warn', 'src': 'green', 'dst': 'yellow'},
                {'name': 'panic', 'src': 'yellow', 'dst': 'red'},
                {'name': 'calm', 'src': 'red', 'dst': 'yellow'},
                {'name': 'clear', 'src': 'yellow', 'dst': 'green'} ] })

fsm.trigger('warn', msg="danger") # equivalent to fsm.warn(msg="danger")
fsm.trigger('unknown') # FysomError, event does not exist
fsm.unknown() # AttributeError, event does not exist

```

#### Multiple source and destination states for a single event

-----

::

```

fsm = Fysom({'initial': 'hungry',
            'events': [
                {'name': 'eat', 'src': 'hungry', 'dst': 'satisfied'},
                {'name': 'eat', 'src': 'satisfied', 'dst': 'full'},
                {'name': 'eat', 'src': 'full', 'dst': 'sick'},
                {'name': 'rest', 'src': ['hungry', 'satisfied', 'full', 'sick'], 'dst': 'hungry'}}])

```

This example will create an object with 2 event methods:

- fsm.eat()

- fsm.rest()

The rest event will always transition to the hungry state, while the eat event will transition to a state that is dependent on the current state.

NOTE the rest event in the above example can also be specified as multiple events with the same name if you prefer the verbose approach.

NOTE if an event can be triggered from any state, you can specify it using the '\*' wildcard, or even by omitting the src attribute from its definition:

::

```
fsm = Fysom({'initial': 'hungry',
            'events': [
                {'name': 'eat', 'src': 'hungry', 'dst': 'satisfied'},
                {'name': 'eat', 'src': 'satisfied', 'dst': 'full'},
                {'name': 'eat', 'src': 'full', 'dst': 'sick'},
                {'name': 'eat_a_lot', 'src': '*', 'dst': 'sick'},
                {'name': 'rest', 'dst': 'hungry'}]})
```

NOTE if an event will not change the current state, you can specify destination using the '=' symbol. It's useful when using wildcard source or multiply sources:

::

```
fsm = Fysom({'initial': 'hungry',
            'events': [
                {'name': 'eat', 'src': 'hungry', 'dst': 'satisfied'},
                {'name': 'eat', 'src': 'satisfied', 'dst': 'full'},
                {'name': 'eat', 'src': 'full', 'dst': 'sick'},
                {'name': 'eat_a_little', 'src': '*', 'dst': '='},
                {'name': 'eat_a_little', 'src': ['full', 'satisfied'], 'dst': '='},
                {'name': 'eat_a_little', 'src': 'hungry', 'dst': '='},
                {'name': 'rest', 'dst': 'hungry'}]})
```

## Callbacks

-----

5 callbacks are available if your state machine has methods using the following naming conventions:

- onbefore\\_event\\_ - fired before the \*event\*
- onleave\\_state\\_ - fired when leaving the old \*state\*
- onenter\\_state\\_ - fired when entering the new \*state\*
- onreenter\\_state\\_ - fired when reentering the old \*state\* (a reflexive transition i.e. src == dst)
- onafter\\_event\\_ - fired after the \*event\*

You can affect the event in 2 ways:

- return False from an `onbefore\_event\_` handler to cancel the event. This will raise a `fysom.Canceled` exception.
- return False from an `onleave\_state\_` handler to perform an asynchronous state transition (see next section)

For convenience, the 2 most useful callbacks can be shortened:

- `on\_event\_` - convenience shorthand for `onafter\_event\_`
- `on\_state\_` - convenience shorthand for `onenter\_state\_`

In addition, a generic `onchangestate()` callback can be used to call a single function for all state changes.

All callbacks will be passed one argument 'e' which is an object with following attributes:

- fsm Fysom object calling the callback
- event Event name
- src Source state
- dst Destination state
- (any other keyword arguments you passed into the original event method)
- (any positional argument you passed in the original event method, in the 'args' attribute of the event)

Note that when you call an event, only one instance of 'e' argument is created and passed to all 4 callbacks. This allows you to preserve data across a state transition by storing it in 'e'. It also allows you to shoot yourself in the foot if you're not careful.

Callbacks can be specified when the state machine is first created:

```
::
```

```
def onpanic(e):
    print 'panic!' + e.msg
def oncalm(e):
    print 'thanks to ' + e.msg + ' done by ' + e.args[0]
def ongreen(e):
    print 'green'
def onyellow(e):
    print 'yellow'
def onred(e):
    print 'red'
fsm = Fysom({'initial': 'green',
            'events': [
                {'name': 'warn', 'src': 'green', 'dst': 'yellow'},
                {'name': 'panic', 'src': 'yellow', 'dst': 'red'},
```

```

    {'name': 'panic', 'src': 'green', 'dst': 'red'},
    {'name': 'calm', 'src': 'red', 'dst': 'yellow'},
    {'name': 'clear', 'src': 'yellow', 'dst': 'green'}],
    'callbacks': {
        'onpanic': onpanic,
        'oncalm': oncalm,
        'ongreen': ongreen,
        'onyellow': onyellow,
        'onred': onred })

```

```

fsm.panic(msg='killer bees')
fsm.calm('bob', msg='sedatives in the honey pots')

```

Additionally, they can be added and removed from the state machine at any time:

```
::
```

```

def printstatechange(e):
    print 'event: %s, src: %s, dst: %s' % (e.event, e.src, e.dst)

del fsm.ongreen
del fsm.onyellow
del fsm.onred
fsm.onchangestate = printstatechange

```

Asynchronous state transitions

-----

Sometimes, you need to execute some asynchronous code during a state transition and ensure the new state is not entered until you code has completed.

A good example of this is when you run a background thread to download something as result of an event. You only want to transition into the new state after the download is complete.

You can return False from your onleave\\_state\\_ handler and the state machine will be put on hold until you are ready to trigger the transition using the transition() method.

Found in path(s):

```
* /opt/cola/permits/1158126133_1619711509.17/0/fysom-2-1-2-1-tar-gz/fysom-2.1.2/README
```

## 1.44 linux-kernel 4.9.140

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

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

\*

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

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

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

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

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

\* and spelling mistakes.

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

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

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

\*

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

\*

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

\*

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

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

\* see init\_nicstar() for PHY initialization to change this. This driver

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

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

\*

\* Implementing minimal-copy of received data:

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

```

* as needed. This means that data must always be copied to create
* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)
* Fix is simple: make large buffers large enough to hold entire
* SDU, and leave <small_buffer_data> bytes empty at the start. Then
* copy small buffer contents to head of large buffer.
* Trick is to avoid fragmenting Linux, due to need for a lot of large
* buffers. This is done by 2 things:
* 1) skb->destructor / skb->atm.recycle_buffer
*    combined, allow nicstar_free_rx_skb to be called to
*    recycle large data buffers
* 2) skb_clone of received buffers
* See nicstar_free_rx_skb and linearize_buffer for implementation
* details.
*
*
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*
* M. Welsh, 6 July 1996
*
*/

```

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# 1.45 linenoise 1.0.0

## 1.45.1 Available under license :

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```
/* linenoise.h -- guerrilla line editing library against the idea that a
* line editing lib needs to be 20,000 lines of C code.
*
* See linenoise.c for more information.
*
* -----
*
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\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1064480664\_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-0-g923ca3c-tar-gz/brick-lang-linenoise-ml-923ca3c/linenoise\_c/linenoise.h

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OASISFormat: 0.4

Name: linenoise

Version: 0.1

Synopsis: A small readline replacement

Authors: Katherine Whitlock

License: BSD-3-clause

Plugins: META(0.4)

Library linenoise

Path: .

BuildTools: ocamlbuild

CSources: linenoise\_stubs.c, linenoise\_c/linenoise.c, linenoise\_c/linenoise.h, headers/complex\_stubs.h, headers/cstubs\_internals.h, headers/managed\_buffer\_stubs.h, headers/primitives.h, headers/raw\_pointer.h, headers/type\_info\_stubs.h, headers/unsigned\_stubs.h

BuildDepends: ctypes.foreign, ctypes.stubs, core, threads

Modules: Linenoise\_bindings, Linenoise

Install: true

SourceRepository head

Type: git

Location: <https://github.com/brick-lang/linenoise-ml>

Browser: <https://github.com/brick-lang/linenoise-ml>

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1064480664\_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-0-g923ca3c-tar-

gz/brick-lang-linenoise-ml-923ca3c/\_oasis

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```
/* linenoise.c -- guerrilla line editing library against the idea that a
* line editing lib needs to be 20,000 lines of C code.
*
* You can find the latest source code at:
*
* http://github.com/antirez/linenoise
*
* Does a number of crazy assumptions that happen to be true in 99.9999% of
* the 2010 UNIX computers around.
*
* -----
*
* Copyright (c) 2010-2013, Salvatore Sanfilippo <antirez at gmail dot com>
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*
* -----
*
* References:
* - http://invisible-island.net/xterm/ctlseqs/ctlseqs.html
* - http://www.3waylabs.com/nw/WWW/products/wizcon/vt220.html
```

\*  
 \* Todo list:  
 \* - Filter bogus Ctrl+<char> combinations.  
 \* - Win32 support  
 \*  
 \* Bloat:  
 \* - History search like Ctrl+r in readline?  
 \*  
 \* List of escape sequences used by this program, we do everything just  
 \* with three sequences. In order to be so cheap we may have some  
 \* flickering effect with some slow terminal, but the lesser sequences  
 \* the more compatible.  
 \*  
 \* CHA (Cursor Horizontal Absolute)  
 \* Sequence: ESC [ n G  
 \* Effect: moves cursor to column n  
 \*  
 \* EL (Erase Line)  
 \* Sequence: ESC [ n K  
 \* Effect: if n is 0 or missing, clear from cursor to end of line  
 \* Effect: if n is 1, clear from beginning of line to cursor  
 \* Effect: if n is 2, clear entire line  
 \*  
 \* CUF (CUrsor Forward)  
 \* Sequence: ESC [ n C  
 \* Effect: moves cursor forward of n chars  
 \*  
 \* When multi line mode is enabled, we also use an additional escape  
 \* sequence. However multi line editing is disabled by default.  
 \*  
 \* CUU (Cursor Up)  
 \* Sequence: ESC [ n A  
 \* Effect: moves cursor up of n chars.  
 \*  
 \* CUD (Cursor Down)  
 \* Sequence: ESC [ n B  
 \* Effect: moves cursor down of n chars.  
 \*  
 \* The following are used to clear the screen: ESC [ H ESC [ 2 J  
 \* This is actually composed of two sequences:  
 \*  
 \* cursorhome  
 \* Sequence: ESC [ H  
 \* Effect: moves the cursor to upper left corner  
 \*  
 \* ED2 (Clear entire screen)  
 \* Sequence: ESC [ 2 J  
 \* Effect: clear the whole screen

\*  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1064480664\_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-0-g923ca3c-tar-gz/brick-lang-linenoise-ml-923ca3c/linenoise\_c/linenoise.c

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

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1064480664\_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-0-g923ca3c-tar-gz/brick-lang-linenoise-ml-923ca3c/headers/raw\_pointer.h

\* /opt/ws\_local/PERMITS\_SQL/1064480664\_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-0-g923ca3c-tar-gz/brick-lang-linenoise-ml-923ca3c/headers/complex\_stubs.h

\* /opt/ws\_local/PERMITS\_SQL/1064480664\_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-0-g923ca3c-tar-gz/brick-lang-linenoise-ml-923ca3c/headers/primitives.h

\* /opt/ws\_local/PERMITS\_SQL/1064480664\_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-0-g923ca3c-tar-gz/brick-lang-linenoise-ml-923ca3c/headers/type\_info\_stubs.h

\* /opt/ws\_local/PERMITS\_SQL/1064480664\_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-0-g923ca3c-tar-gz/brick-lang-linenoise-ml-923ca3c/headers/managed\_buffer\_stubs.h

\* /opt/ws\_local/PERMITS\_SQL/1064480664\_1593568854.77/0/brick-lang-linenoise-ml-1-0-0-0-g923ca3c-tar-gz/brick-lang-linenoise-ml-923ca3c/headers/unsigned\_stubs.h

## 1.46 berkeley-db 4.7.25

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```
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```
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The End

## 1.50 rom 0.42.6

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## 1.53 json-c 0.99.8

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# 1.54 ply 3.9

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PLY (Python Lex-Yacc)                      Version 3.9

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Introduction

=====

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc.  
If you know how to use these tools in C, you will find PLY to be similar.
- PLY provides *very* extensive error reporting and diagnostic

information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.

- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.
- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.
- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.
- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

#### How to Use

=====

PLY consists of two files : lex.py and yacc.py. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import lex and yacc from the associated 'ply' package. For example:

```
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files lex.py and yacc.py individually and use them as modules. For example:

```
import lex
import yacc
```

The file setup.py can be used to install ply using distutils.

The file doc/ply.html contains complete documentation on how to use the system.



The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

#### Requirements

=====

PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

#### Resources

=====

More information about PLY can be obtained on the PLY webpage at:

<http://www.dabeaz.com/ply>

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

<https://github.com/dabeaz/ply>

An old and relatively inactive discussion group for PLY is found at:

<http://groups.google.com/group/ply-hack>

#### Acknowledgments

=====

A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

#### Special Note for PLY-3.0

=====

PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common

subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

### Example

=====

Here is a simple example showing a PLY implementation of a calculator with variables.

```
# -----
# calc.py
#
# A simple calculator with variables.
# -----

tokens = (
    'NAME','NUMBER',
    'PLUS','MINUS','TIMES','DIVIDE','EQUALS',
    'LPAREN','RPAREN',
    )

# Tokens

t_PLUS = r\+'
t_MINUS = r\-'
t_TIMES = r\*'
t_DIVIDE = r\/'
t_EQUALS = r\='
t_LPAREN = r\('(
t_RPAREN = r\) '
t_NAME = r'[a-zA-Z_][a-zA-Z0-9_]*'

def t_NUMBER(t):
    r\d+'
    t.value = int(t.value)
    return t

# Ignored characters
t_ignore = " \t"

def t_newline(t):
    r\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)
```

```

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence rules for the arithmetic operators
precedence = (
    ('left','PLUS','MINUS'),
    ('left','TIMES','DIVIDE'),
    ('right','UMINUS'),
    )

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    """expression : expression PLUS expression
                  | expression MINUS expression
                  | expression TIMES expression
                  | expression DIVIDE expression"""
    if p[2] == '+': p[0] = p[1] + p[3]
    elif p[2] == '-': p[0] = p[1] - p[3]
    elif p[2] == '*': p[0] = p[1] * p[3]
    elif p[2] == '/': p[0] = p[1] / p[3]

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]

def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]

```

```

except LookupError:
    print("Undefined name '%s'" % p[1])
    p[0] = 0

def p_error(p):
    print("Syntax error at '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ') # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)

```

## Bug Reports and Patches

=====

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at <https://github.com/dabeaz/ply> to submit issues and pull requests. To contact me about bugs and/or new features, please send email to [dave@dabeaz.com](mailto:dave@dabeaz.com).

-- Dave

Found in path(s):

```
* /opt/cola/permits/1162255210_1620805893.95/0/dabeaz-ply-3-9-0-gb515c5f-1-tar-gz/dabeaz-ply-a413a09/README.md
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```

```
* /opt/cola/permits/1162255210_1620805893.95/0/dabeaz-ply-3-9-0-gb515c5f-1-tar-gz/dabeaz-ply-a413a09/ply/yacc.py
```

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```

## 1.55 iproute 5.7.0

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## 1.69 wpa-supPLICANT 2.7-devel

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@c Local Variables:  
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## 1.72 psutil 4.3.0

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