Open Source Used In Remote PHY (version 10.1) 10.1

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Julian Seward, Cambridge, UK.
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)
usage: minibz2 [-d] [-{1,2,...9}] [[srcfilename] destfilename]
*/
%%CreationDate: Wed Dec 22 1999
% Copyright (URW)++,Copyright 1999 by (URW)++ Design & Development
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1.2 tftpy 0.6.2
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1.3 busybox 1.28.4

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1.4 libffi 3.0.13

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1.5 zeromq 4.3.2
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wepoll - epoll for Windows
https://github.com/piscisaureus/wepoll

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1.10 pylint 1.4.4

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1.14 tdb 1.3.16

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1.16 libpcap 1.9.1

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

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: tbsa/tdb.c  
===================================================================  
--- tbsa.orig/tdb.c  
+++ tbsa/tdb.c  
@@ -4,11 +4,11 @@ Rev: 23371  
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)  
 */  
/  
- Unix SMB/CIFS implementation.  
+ trivial database library - standalone version
trivial database library - private includes

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Theodore Ts'o
23-June-2007

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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/

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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:$<

$<: $(OBJS)
$(cd pic; ld -Bshareable -o $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION) $(OBJS))
$(MV) pic/$(BSDLIB_IMAGE).so.$(BSDLIB_VERSION) .
$(RM) -f ../$(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
$(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSDLIB_IMAGE).so.$(BSDLIB_VERSION))

install-shlibs install:: $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)"
@$(INSTALL_PROGRAM) $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSDLIB_IMAGE).so.$(BSDLIB_VERSION) \
@-$(LDCONFIG)

install-strip: install-shlibs

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)

clean::
$(RM) -rf pic
$(RM) -f $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
$(RM) -f ../$(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)

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:
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Gadi Oxman, August 1995

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1.24 python 2.7.18

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

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

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

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

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man/fmtcheck.3bsd
man/humanize_number.3bsd
man/stringlist.3bsd
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include/bsd/sys/endian.h
man/byteorder.3bsd
man/closfrom.3bsd
man/expand_number.3bsd
man/flopen.3bsd
man/getpeereid.3bsd
man/pidfile.3bsd
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man/readpassphrase.3bsd
man/strlcpy.3bsd
man/strtonum.3bsd
src/arc4random.c
src/arc4random_openbsd.h
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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1.28 u-boot 2016.01

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That's all there is to it!

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Version 2.1, February 1999

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*
* http://code.google.com/p/curve25519-donna/
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* Adam Langley <agl@imperialviolet.org>
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* Derived from public domain C code by Daniel J. Bernstein <djb@cr.yp.to>
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* 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 reimplementation 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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1.34 cryptography 1.5.1

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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
License: Public Domain
Description: UNKNOWN
Keywords: protobuf, json, dict
Platform: UNKNOWN
Classifier: Programming Language :: Python
Classifier: Development Status :: 4 - Beta
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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
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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

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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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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
(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/
1.37 glibc 2.30

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

------------------------------------------------------------------------
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1.40 distribute 0.6.21

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1.41 idna 2.1

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```python
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()

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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
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* /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
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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
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MIT licensed. All credits go to Jake Gordon for the `original javascript implementation <https://github.com/jakesgordon/javascript-state-machine>`_
and to Mansour Behabadi for the `python port <https://github.com/oxplot/fysom>`_.

Synopsis
========

This is basically Mansour's 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'},
                  {'name': 'clear', 'src': 'yellow', '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:

```python
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:

```python
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:

```python
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:

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

```python
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
---------------------------------------------------------

```python
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()
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:

```python
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:

```python
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:

```python
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
1.44.1 Available under license:

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Version 1.0

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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software
sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.
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   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

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

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

c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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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

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

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.
 * ------------------------------------------------------------------------
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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-targ
gz/brick-lang-linenoise-ml-923ca3c/linenoise_c/linenoise.c
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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-targ
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-targ
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-targ
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-targ
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-targ
gz/brick-lang-linenoise-ml-923ca3c/headers/unsigned_stubs.h

1.46 berkeley-db 4.7.25

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1.51 tcp-dump 4.9.3

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1.52 cffi 1.8.3

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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.

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

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

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

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"

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.

-- Dave

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1.55 iproute 5.7.0

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1.58 pcre 8.43
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-------------------------

Written by: Philip Hazel
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Email domain: cam.ac.uk

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1.59 enum34 1.1.6

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