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In your requests please include the following reference number 78EE117C99-2047988763

Contents

1.1 bzip2 1.0.8

1.2 ncurses 6.1

1.2.1 Available under license

1.3 tcl 8.5.13

1.3.1 Available under license

1.4 ply 3.9

1.4.1 Available under license

1.5 spew 1.1.1

1.5.1 Available under license

1.6 xi2-xz 0.0.0-20171230120015-48954b6210f8

1.6.1 Available under license

1.7 go-diffliib 1.0.0

1.7.1 Available under license

1.8 afero 1.0.5

1.8.1 Available under license

1.9 gorilla 1.5.1

1.9.1 Available under license

1.10 errors 0.9.1

1.10.1 Available under license

1.11 golang-snappy 0.0.4

1.11.1 Available under license

1.12 match 1.1.1

1.12.1 Available under license

1.13 archiver 3.5.1

1.13.1 Available under license

1.14 go-logr-stdr 1.2.2

- 1.14.1 Available under license
- 1.15 tk 8.5.13**
 - 1.15.1 Available under license
- 1.16 readline 6.2.4.1**
 - 1.16.1 Available under license
- 1.17 go-colorable 0.1.13**
 - 1.17.1 Available under license
- 1.18 go-ini-ini 1.67.0**
 - 1.18.1 Available under license
- 1.19 packaging 21.3**
 - 1.19.1 Available under license
- 1.20 gdbm 1.23**
 - 1.20.1 Available under license
- 1.21 felixge-fgprof 0.9.3**
 - 1.21.1 Available under license
- 1.22 pretty 1.2.1**
 - 1.22.1 Available under license
- 1.23 libffi 3.4.4**
 - 1.23.1 Available under license
- 1.24 expat 2.5.0**
 - 1.24.1 Available under license
- 1.25 sqlite 3.40.0**
 - 1.25.1 Available under license
- 1.26 go-playground-locales 0.14.1**
 - 1.26.1 Available under license
- 1.27 python-pip 23.0.1**
 - 1.27.1 Available under license
- 1.28 lumberjack 2.2.1**
 - 1.28.1 Available under license
- 1.29 profile 1.7.0**
 - 1.29.1 Available under license
- 1.30 dsnet-compress 0.0.2-0.20210315054119-f66993602bf5**
 - 1.30.1 Available under license
- 1.31 go-playground-universal-translator 0.18.1**
 - 1.31.1 Available under license
- 1.32 profile 1.7.0**
 - 1.32.1 Available under license
- 1.33 gorilla 1.5.1**
 - 1.33.1 Available under license

1.34 oklog-ulid 2.1.0

1.34.1 Available under license

1.35 creasty-defaults 1.7.0

1.35.1 Available under license

1.36 pgzip 1.2.6

1.36.1 Available under license

1.37 rardecode 1.1.3

1.37.1 Available under license

1.38 xxhash v1.1.0

1.38.1 Available under license

1.39 go-ole-go-ole 1.3.0

1.39.1 Available under license

1.40 greenlet 0.4.13

1.40.1 Available under license

1.41 fmt 7.1.3-r1

1.41.1 Available under license

1.42 python-setuptools 65.5.0

1.42.1 Available under license

1.43 gabriel-vasile-mimetypes 1.4.3

1.43.1 Available under license

1.44 mattn-go-isatty 0.0.20

1.44.1 Available under license

1.45 openssl 3.0.12

1.45.1 Available under license

1.46 cobra 1.8.0

1.46.1 Available under license

1.47 rardecode 1.1.3

1.47.1 Available under license

1.48 apenella-go-common-utils-data 0.0.0-20221227202648-5452d804e940

1.48.1 Available under license

1.49 apenella-go-common-utils-error 0.0.0-20221227202648-5452d804e940

1.49.1 Available under license

1.50 golang-snappy 0.0.4

1.50.1 Available under license

1.51 dsnet-compress 0.0.2-0.20210315054119-f66993602bf5

1.51.1 Available under license

1.52 go.melnyk.org-hostid 0.0.0-20230621030336-16e01618f2d0

1.52.1 Available under license

1.53 go.melnyk.org-hufid 1.0.0

- 1.53.1 Available under license
- 1.54 color 1.16.0**
- 1.54.1 Available under license
- 1.55 afero 1.11.0**
- 1.55.1 Available under license
- 1.56 afero 1.11.0**
- 1.56.1 Available under license
- 1.57 logr 1.4.1**
- 1.57.1 Available under license
- 1.58 hpy 0.9.0**
- 1.58.1 Available under license
- 1.59 x-oauth2 0.16.0**
- 1.59.1 Available under license
- 1.60 logr 1.4.1**
- 1.60.1 Available under license
- 1.61 grpc-go 1.61.0**
- 1.61.1 Available under license
- 1.62 proto-otlp 1.1.0**
- 1.62.1 Available under license
- 1.63 google-uuid 1.6.0**
- 1.63.1 Available under license
- 1.64 example 21.12**
- 1.64.1 Available under license
- 1.65 color 1.16.0**
- 1.65.1 Available under license
- 1.66 andybalholm-brotli 1.1.0**
- 1.66.1 Available under license
- 1.67 otel-exporters-otlp-otlpmetric-otlpmetrichttp 1.23.0**
- 1.67.1 Available under license
- 1.68 grpc-gateway 2.19.1**
- 1.68.1 Available under license
- 1.69 genproto-googleapis-rpc 0.0.0-20240205150955-31a09d347014**
- 1.69.1 Available under license
- 1.70 otel-trace 1.23.0**
- 1.70.1 Available under license
- 1.71 x-exp 0.0.0-20240205201215-2c58cdc269a3**
- 1.71.1 Available under license
- 1.72 apenella-go-ansible 1.3.0**
- 1.72.1 Available under license

1.73 otel-sdk 1.23.0

1.73.1 Available under license

1.74 otel-sdk-metric 1.23.0

1.74.1 Available under license

1.75 otel-metric 1.23.0

1.75.1 Available under license

1.76 google-pprof 0.0.0-20240130152714-0ed6a68c8d9e

1.76.1 Available under license

1.77 genproto-googleapis-api 0.0.0-20240205150955-31a09d347014

1.77.1 Available under license

1.78 pierrec-lz4 4.1.21

1.78.1 Available under license

1.79 yusufpapurcu-wmi 1.2.4

1.79.1 Available under license

1.80 leodido-go-urn 1.4.0

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1.81 google-uuid 1.6.0

1.81.1 Available under license

1.82 zap 1.27.0

1.82.1 Available under license

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1.83.1 Available under license

1.84 objx 0.5.2

1.84.1 Available under license

1.85 testify 1.9.0

1.85.1 Available under license

1.86 goprotobuf 1.5.4

1.86.1 Available under license

1.87 testify 1.9.0

1.87.1 Available under license

1.88 protobuf 1.33.0

1.88.1 Available under license

1.89 goprotobuf 1.5.4

1.89.1 Available under license

1.90 pgzip 1.2.6

1.90.1 Available under license

1.91 python 3.10.14

1.91.1 Available under license

1.92 xz 5.4.6

- 1.92.1 Available under license
- 1.93 golang 1.22.2**
 - 1.93.1 Notifications
 - 1.93.2 Available under license
- 1.94 gopkg.in-ini 1.67.0**
 - 1.94.1 Available under license
- 1.95 pflag 1.0.5**
 - 1.95.1 Available under license
- 1.96 backoff 4.3.0**
 - 1.96.1 Available under license
- 1.97 pierrec-lz4 4.1.21**
 - 1.97.1 Available under license
- 1.98 klauspost-compress 1.17.8**
 - 1.98.1 Available under license
- 1.99 klauspost-compress 1.17.8**
 - 1.99.1 Available under license
- 1.100 gjson 1.17.0**
 - 1.100.1 Available under license
- 1.101 open-telemetry-opentelemetry-collector-contrib 1.23.0**
 - 1.101.1 Available under license
- 1.102 go-uber-org-multierr 1.11.0**
 - 1.102.1 Available under license
- 1.103 cffi 1.17.0.dev0**
 - 1.103.1 Available under license
- 1.104 pyparsing v3.0.9**
 - 1.104.1 Available under license
- 1.105 gopkg.in-yaml 3.0.1**
 - 1.105.1 Available under license
- 1.106 importlib-metadata 4.11.1**
 - 1.106.1 Available under license
- 1.107 open-telemetry-opamp-go 0.14.0**
 - 1.107.1 Available under license
- 1.108 gookit-filter 1.2.1**
 - 1.108.1 Available under license
- 1.109 gookit-goutil 0.6.15**
 - 1.109.1 Available under license
- 1.110 gookit-validate 1.5.2**
 - 1.110.1 Available under license
- 1.111 tomli 2.0.1**

- 1.111.1 Available under license
- 1.112 spew 1.1.1**
 - 1.112.1 Available under license
- 1.113 x-sys 0.20.0**
 - 1.113.1 Available under license
- 1.114 x-text 0.15.0**
 - 1.114.1 Available under license
- 1.115 x-net 0.25.0**
 - 1.115.1 Available under license
- 1.116 x-crypto 0.23.0**
 - 1.116.1 Available under license
- 1.117 x-crypto 0.23.0**
 - 1.117.1 Available under license
- 1.118 futures 3.4.0**
 - 1.118.1 Available under license
- 1.119 go-playground-validator 10.20.0**
 - 1.119.1 Available under license
- 1.120 go-sysconf 0.3.14**
 - 1.120.1 Available under license
- 1.121 numcpus 0.8.0**
 - 1.121.1 Available under license
- 1.122 gopsutil 3.24.4**
 - 1.122.1 Available under license
- 1.123 x-text 0.15.0**
 - 1.123.1 Available under license
- 1.124 x-sys 0.20.0**
 - 1.124.1 Available under license
- 1.125 ulikunitz-xz 0.5.12**
 - 1.125.1 Available under license
- 1.126 x-net 0.25.0**
 - 1.126.1 Available under license
- 1.127 gopsutil 3.24.4**
 - 1.127.1 Available under license
- 1.128 ulikunitz-xz 0.5.12**
 - 1.128.1 Available under license

1.1 bzip2 1.0.8

1.2 ncurses 6.1

1.2.1 Available under license :

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

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This package is used for testing builds of ncurses.

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```
-- vile:txtmode fc=72
-- $Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp $
```

1.3 tcl 8.5.13

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1.4 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.

-- 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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a413a09/ply/cpp.py
```

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```

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

1.5 spew 1.1.1

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1.6 xi2-xz 0.0.0-20171230120015-48954b6210f8

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=====

This Go package is a modified version of

XZ Embedded <<http://tukaani.org/xz/embedded.html>>

The contents of the testdata directory are modified versions of the test files from

XZ Utils <<http://tukaani.org/xz/>>

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1.8 afero 1.0.5

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1.9 gorilla 1.5.1

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1.10 errors 0.9.1

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1.11 golang-snappy 0.0.4

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1.12 match 1.1.1

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1.13 archiver 3.5.1

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1.14 go-logr-stdr 1.2.2

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1.15 tk 8.5.13

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1.17 go-colorable 0.1.13

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1.18 go-ini-ini 1.67.0

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1.19 packaging 21.3

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1.20 gdbm 1.23

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1.22 pretty 1.2.1

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1.24 expat 2.5.0

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1.26 go-playground-locales 0.14.1

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1.27 python-pip 23.0.1

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

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

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

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

<https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt>

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

Just configure this file as the SSLCACertificateFile.#

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

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A. HISTORY OF THE SOFTWARE

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

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

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

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

Release	Derived	Year	Owner	GPL-
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	from			compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF		yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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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.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.28 lumberjack 2.2.1

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1.29 profile 1.7.0

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1.31 go-playground-universal-translator 0.18.1

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1.32 profile 1.7.0

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1.33 gorilla 1.5.1

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1.34 oklog-ulid 2.1.0

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1.37 rardecode 1.1.3

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1.39 go-ole-go-ole 1.3.0

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1.40 greenlet 0.4.13

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1.41 fmt 7.1.3-r1

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

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

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

2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
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2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes
3.2.1	3.2	2011		
	PSF	yes		
3.2.2	3.2.1	2011	PSF	yes
3.2.3	3.2.2	2012	PSF	yes
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1.42 python-setuptools 65.5.0

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A. HISTORY OF THE SOFTWARE

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

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

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

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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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`validate-pyproject`

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1.44 mattn-go-isatty 0.0.20

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at assemblers) written by James Hacker.
```

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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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1.47 rardecode 1.1.3

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1.48 apenella-go-common-utils-data 0.0.0-

20221227202648-5452d804e940

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1.49 apenella-go-common-utils-error 0.0.0-20221227202648-5452d804e940

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1.50 golang-snappy 0.0.4

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1.51 dsnet-compress 0.0.2-0.20210315054119-f66993602bf5

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1.53 go.melnyk.org-hufid 1.0.0

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1.54 color 1.16.0

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1.68 grpc-gateway 2.19.1

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1.69 genproto-googleapis-rpc 0.0.0-20240205150955-31a09d347014

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1.70 otel-trace 1.23.0

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1.72 apenella-go-ansible 1.3.0

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1.74 otel-sdk-metric 1.23.0

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1.76 google-pprof 0.0.0-20240130152714-0ed6a68c8d9e

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1.77 genproto-googleapis-api 0.0.0-20240205150955-31a09d347014

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1.78 pierrec-lz4 4.1.21

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1.79 yusufpapurcu-wmi 1.2.4

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1.80 leodido-go-urn 1.4.0

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1.88 protobuf 1.33.0

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1.89 goprotobuf 1.5.4

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1.90 pgzip 1.2.6

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1.91 python 3.10.14

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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 <https://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 <https://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

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.93 golang 1.22.2

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1.94 gopkg.in-ini 1.67.0

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1.95 pflag 1.0.5

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1.96 backoff 4.3.0

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1.97 pierrec-lz4 4.1.21

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1.98 klauspost-compress 1.17.8

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1.100 gjson 1.17.0

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1.101 open-telemetry-opentelemetry-collector-contrib 1.23.0

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1.102 go-uber-org-multierr 1.11.0

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1.103 cffi 1.17.0.dev0

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1.105 gopkg.in-yaml 3.0.1

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1.106 importlib-metadata 4.11.1

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1.107 open-telemetry-opamp-go 0.14.0

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1.108 gookit-filter 1.2.1

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1.109 gookit-goutil 0.6.15

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1.110 gookit-validate 1.5.2

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1.111 toml 2.0.1

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1.112 spew 1.1.1

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1.113 x-sys 0.20.0

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1.119 go-playground-validator 10.20.0

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1.120 go-sysconf 0.3.14

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1.121 numcpus 0.8.0

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1.122 gopsutil 3.24.4

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1.123 x-text 0.15.0

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1.124 x-sys 0.20.0

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1.125 ulikunitz-xz 0.5.12

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```

```
package main
```

```
import (
    "bufio"
    "bytes"
    "flag"
    "fmt"
    "io"
    "log"
    "os"
    "path/filepath"
    "strings"
)
```

```
const crUsageString = `xb copyright [options] <path>...
```

The xb copyright command adds a copyright remark to all go files below path.

```
-h prints this message and exits
```

```
func crUsage(w io.Writer) {
    fmt.Fprint(w, crUsageString)
}
```

```
const copyrightText = `
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license that can be found in the LICENSE file.
```

```
func goComment(text string) string {
    buf := new(bytes.Buffer)
    scanner := bufio.NewScanner(strings.NewReader(text))
    var err error
    for scanner.Scan() {
        s := strings.TrimSpace(scanner.Text())
        if len(s) == 0 {
            continue
        }
        if _, err = fmt.Fprintln(buf, "///", s); err != nil {
            panic(err)
        }
    }
    if err
    = scanner.Err(); err != nil {
        panic(err)
    }
    if _, err = fmt.Fprintln(buf); err != nil {
```

```

    panic(err)
}
return buf.String()
}

var goCopyright = goComment(copyrightText)

func addCopyright(path string) (err error) {
    log.Printf("adding copyright to %s", path)
    src, err := os.Open(path)
    if err != nil {
        return err
    }
    defer func() {
        cerr := src.Close()
        if cerr != nil && err == nil {
            err = cerr
        }
    }()
    newPath := path + ".new"
    dst, err := os.Create(newPath)
    if err != nil {
        return err
    }
    defer func() {
        cerr := dst.Close()
        if cerr != nil && err == nil {
            err = cerr
        }
    }()
    out := bufio.NewWriter(dst)
    fmt.Fprint(out, goCopyright)
    scanner := bufio.NewScanner(src)
    line := 0
    del := false
    for scanner.Scan() {
        line++
        txt := scanner.Text()
        if line == 1 && strings.Contains(txt, "Copyright") {
            del = true
            continue
        }
        if del {
            s := strings.TrimSpace(txt)
            if len(s) == 0 {
                del = false
            }
        }
        continue
    }
}

```

```

    }
    fmt.Fprintln(out, txt)
}
if err = scanner.Err();
err != nil {
    return err
}
if err = out.Flush(); err != nil {
    return
}
err = os.Rename(newPath, path)
return
}

func walkCopyrights(path string, info os.FileInfo, err error) error {
    if err != nil {
        return err
    }
    if info.IsDir() {
        return nil
    }
    if !strings.HasSuffix(info.Name(), ".go") {
        return nil
    }
    return addCopyright(path)
}

func copyright() {
    cmdName := os.Args[0]
    log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
    log.SetFlags(0)

    flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
    flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }

    help := flag.Bool("h", false, "")

    flag.Parse()

    if *help {
        crUsage(os.Stdout)
        os.Exit(0)
    }

    for _, path := range flag.Args() {
        fi, err := os.Stat(path)
        if err != nil {
            log.Print(err)
        }
    }
}

```

```
    continue
}
if !fi.IsDir() {
    log.Printf("%s is not a directory", path)
    continue
}
if err = filepath.Walk(path, walkCopyrights); err != nil {
    log.Fatalf("%s error %s", path, err)
}
}
}
```

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package main

```
const goLicense = `Copyright (c) 2009 The Go Authors. All rights reserved.
```

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1.126 x-net 0.25.0

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1.127 gopsutil 3.24.4

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1.128 ulikunitz-xz 0.5.12

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```

```
package main
```

```
import (  
    "bufio"  
    "bytes"  
    "flag"  
    "fmt"  
    "io"  
    "log"  
    "os"  
    "path/filepath"  
    "strings"  
)
```

```
const crUsageString = `xb copyright [options] <path>...`
```

The xb copyright command adds a copyright remark to all go files below path.

```
-h prints this message and exits
```

```
`
```

```
func crUsage(w io.Writer) {  
    fmt.Fprint(w, crUsageString)  
}
```

```
const copyrightText = `  
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Use of this source code is governed by a BSD-style  
license that can be found in the LICENSE file.  
`
```

```
func goComment(text string) string {  
    buf := new(bytes.Buffer)
```

```

scanner := bufio.NewScanner(strings.NewReader(text))
var err error
for scanner.Scan() {
    s := strings.TrimSpace(scanner.Text())
    if len(s) == 0 {
        continue
    }
    if _, err = fmt.Fprintln(buf, "//", s); err != nil {
        panic(err)
    }
}
if err
= scanner.Err(); err != nil {
    panic(err)
}
if _, err = fmt.Fprintln(buf); err != nil {
    panic(err)
}
return buf.String()
}

```

```

var goCopyright = goComment(copyrightText)

```

```

func addCopyright(path string) (err error) {
    log.Printf("adding copyright to %s", path)
    src, err := os.Open(path)
    if err != nil {
        return err
    }
    defer func() {
        cerr := src.Close()
        if cerr != nil && err == nil {
            err = cerr
        }
    }()
    newPath := path + ".new"
    dst, err := os.Create(newPath)
    if err != nil {
        return err
    }
    defer func() {
        cerr := dst.Close()
        if cerr != nil && err == nil {
            err = cerr
        }
    }()
    out := bufio.NewWriter(dst)
    fmt.Fprint(out, goCopyright)
}

```

```

scanner := bufio.NewScanner(src)
line := 0
del := false
for scanner.Scan() {
    line++
    txt := scanner.Text()
    if line == 1 && strings.Contains(txt, "Copyright") {
        del = true
        continue
    }
    if del {
        s := strings.TrimSpace(txt)
        if len(s) == 0 {
            del = false
        }
        continue
    }
    fmt.Fprintln(out, txt)
}
if err = scanner.Err();
err != nil {
    return err
}
if err = out.Flush(); err != nil {
    return
}
err = os.Rename(newPath, path)
return
}

func walkCopyrights(path string, info os.FileInfo, err error) error {
    if err != nil {
        return err
    }
    if info.IsDir() {
        return nil
    }
    if !strings.HasSuffix(info.Name(), ".go") {
        return nil
    }
    return addCopyright(path)
}

func copyright() {
    cmdName := os.Args[0]
    log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
    log.SetFlags(0)
}

```

```
flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }

help := flag.Bool("h", false, "")

flag.Parse()

if *help {
    crUsage(os.Stdout)
    os.Exit(0)
}

for _, path := range flag.Args() {
    fi, err := os.Stat(path)
    if err != nil {
        log.Print(err)
        continue
    }
    if !fi.IsDir() {
        log.Printf("%s is not a directory", path)
        continue
    }
    if err = filepath.Walk(path, walkCopyrights); err != nil {
        log.Fatalf("%s error %s", path, err)
    }
}
}
```

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package main

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