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## 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 pgzip 1.2.5**

1.4.1 Available under license

### **1.5 rardecode 1.1.0**

1.5.1 Available under license

### **1.6 ply 3.9**

1.6.1 Available under license

### **1.7 ulikunitz-xz 0.5.10**

1.7.1 Available under license

### **1.8 xi2-xz 0.0.0-20171230120015-48954b6210f8**

1.8.1 Available under license

### **1.9 go-difflib 1.0.0**

1.9.1 Available under license

### **1.10 afero 1.0.5**

1.10.1 Available under license

### **1.11 rardecode 1.1.0**

1.11.1 Available under license

### **1.12 gorilla 1.5.1**

1.12.1 Available under license

### **1.13 errors 0.9.1**

1.13.1 Available under license

### **1.14 golang-snappy 0.0.4**

- 1.14.1 Available under license
- 1.15 match 1.1.1**
  - 1.15.1 Available under license
- 1.16 gopsutil 3.21.11+incompatible**
  - 1.16.1 Available under license
- 1.17 archiver 3.5.1**
  - 1.17.1 Available under license
- 1.18 go-logr-stdr 1.2.2**
  - 1.18.1 Available under license
- 1.19 tk 8.5.13**
  - 1.19.1 Available under license
- 1.20 andybalholm-brotli 1.0.4**
  - 1.20.1 Available under license
- 1.21 readline 6.2.4.1**
  - 1.21.1 Available under license
- 1.22 pierrec-lz4 4.1.15**
  - 1.22.1 Available under license
- 1.23 go-colorable 0.1.13**
  - 1.23.1 Available under license
- 1.24 go-ini-ini 1.67.0**
  - 1.24.1 Available under license
- 1.25 gdbm 1.23**
  - 1.25.1 Available under license
- 1.26 felixge-fgprof 0.9.3**
  - 1.26.1 Available under license
- 1.27 pretty 1.2.1**
  - 1.27.1 Available under license
- 1.28 libffi 3.4.4**
  - 1.28.1 Available under license
- 1.29 expat 2.5.0**
  - 1.29.1 Available under license
- 1.30 sqlite 3.40.0**
  - 1.30.1 Available under license
- 1.31 python-pip 23.0.1**
  - 1.31.1 Available under license
- 1.32 lumberjack 2.2.1**
  - 1.32.1 Available under license
- 1.33 profile 1.7.0**
  - 1.33.1 Available under license

- 1.34 backoff 4.2.1**
  - 1.34.1 Available under license
- 1.35 oklog-ulid 2.1.0**
  - 1.35.1 Available under license
- 1.36 testify 1.8.4**
  - 1.36.1 Available under license
- 1.37 creasty-defaults 1.7.0**
  - 1.37.1 Available under license
- 1.38 gopkg.in-yaml 3.0.1**
  - 1.38.1 Available under license
- 1.39 go-uber-org-multierr 1.11.0**
  - 1.39.1 Available under license
- 1.40 gopkg.in-ini 1.67.0**
  - 1.40.1 Available under license
- 1.41 zap 1.26.0**
  - 1.41.1 Available under license
- 1.42 go-ole-go-ole 1.3.0**
  - 1.42.1 Available under license
- 1.43 cffi 1.16.0**
  - 1.43.1 Available under license
- 1.44 greenlet 0.4.13**
  - 1.44.1 Available under license
- 1.45 fmt 7.1.3-r1**
  - 1.45.1 Available under license
- 1.46 objx 0.5.1**
  - 1.46.1 Available under license
- 1.47 spew 1.1.1**
  - 1.47.1 Available under license
- 1.48 xxhash v2.2.0**
  - 1.48.1 Available under license
- 1.49 gjson 1.17.0**
  - 1.49.1 Available under license
- 1.50 python-setuptools 65.5.0**
  - 1.50.1 Available under license
- 1.51 mattn-go-isatty 0.0.20**
  - 1.51.1 Available under license
- 1.52 ulikunitz-xz 0.5.10**
  - 1.52.1 Available under license
- 1.53 pflag 1.0.5**

- 1.53.1 Available under license
- 1.54 goprotobuf 1.5.3**
  - 1.54.1 Available under license
- 1.55 pgzip 1.2.5**
  - 1.55.1 Available under license
- 1.56 x-text 0.14.0**
  - 1.56.1 Available under license
- 1.57 openssl 3.0.12**
  - 1.57.1 Available under license
- 1.58 cobra 1.8.0**
  - 1.58.1 Available under license
- 1.59 importlib-metadata 4.11.1**
  - 1.59.1 Available under license
- 1.60 apenella-go-common-utils-data 0.0.0-20221227202648-5452d804e940**
  - 1.60.1 Available under license
- 1.61 apenella-go-common-utils-error 0.0.0-20221227202648-5452d804e940**
  - 1.61.1 Available under license
- 1.62 golang-snappy 0.0.4**
  - 1.62.1 Available under license
- 1.63 go-colorable 0.1.13**
  - 1.63.1 Available under license
- 1.64 dsnet-compress 0.0.2-0.20210315054119-f66993602bf5**
  - 1.64.1 Available under license
- 1.65 xz 5.2.12**
  - 1.65.1 Available under license
- 1.66 go.melnyk.org-hostid 0.0.0-20230621030336-16e01618f2d0**
  - 1.66.1 Available under license
- 1.67 go.melnyk.org-hufid 1.0.0**
  - 1.67.1 Available under license
- 1.68 go-sysconf 0.3.13**
  - 1.68.1 Available under license
- 1.69 numcpus 0.7.0**
  - 1.69.1 Available under license
- 1.70 afero 1.11.0**
  - 1.70.1 Available under license
- 1.71 afero 1.11.0**
  - 1.71.1 Available under license
- 1.72 logr 1.4.1**
  - 1.72.1 Available under license

### **1.73 x-net 0.20.0**

1.73.1 Available under license

### **1.74 x-sys 0.16.0**

1.74.1 Available under license

### **1.75 hpy 0.9.0**

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### **1.76 x-oauth2 0.16.0**

1.76.1 Available under license

### **1.77 pierrec-lz4 4.1.15**

1.77.1 Available under license

### **1.78 phanidevavarapu-opamp-go 0.0.0-20240119161423-10380152d641**

1.78.1 Available under license

### **1.79 grpc-go 1.61.0**

1.79.1 Available under license

### **1.80 proto-otlp 1.1.0**

1.80.1 Available under license

### **1.81 futures 3.4.0**

1.81.1 Available under license

### **1.82 protobuf 1.32.0**

1.82.1 Available under license

### **1.83 example 21.12**

1.83.1 Available under license

### **1.84 color 1.16.0**

1.84.1 Available under license

### **1.85 xxhash v2.2.0**

1.85.1 Available under license

### **1.86 golang 1.21.7**

1.86.1 Notifications

1.86.2 Available under license

### **1.87 otel-exporters-otlp-otlpmetric-otlpmetrichttp 1.23.0**

1.87.1 Available under license

### **1.88 grpc-gateway 2.19.1**

1.88.1 Available under license

### **1.89 genproto-googleapis-rpc 0.0.0-20240205150955-31a09d347014**

1.89.1 Available under license

### **1.90 otel-trace 1.23.0**

1.90.1 Available under license

### **1.91 open-telemetry-opentelemetry-collector-contrib 1.23.0**

1.91.1 Available under license

### **1.92 x-exp 0.0.0-20240205201215-2c58cdc269a3**

1.92.1 Available under license

### **1.93 apenella-go-ansible 1.3.0**

1.93.1 Available under license

### **1.94 otel-sdk 1.23.0**

1.94.1 Available under license

### **1.95 otel-sdk-metric 1.23.0**

1.95.1 Available under license

### **1.96 otel-metric 1.23.0**

1.96.1 Available under license

### **1.97 google-pprof 0.0.0-20240130152714-0ed6a68c8d9e**

1.97.1 Available under license

### **1.98 genproto-googleapis-api 0.0.0-20240205150955-31a09d347014**

1.98.1 Available under license

### **1.99 python 3.10.13v7.3.15**

1.99.1 Available under license

### **1.100 yusufpapurcu-wmi 1.2.4**

1.100.1 Available under license

### **1.101 gopsutil 3.24.1**

1.101.1 Available under license

### **1.102 klauspost-compress 1.17.6**

1.102.1 Available under license

### **1.103 google-uuid 1.6.0**

1.103.1 Available under license

### **1.104 cloudfoundry-route-registrar 0.293.0**

1.104.1 Available under license

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Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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## 1.4 pgzip 1.2.5

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## 1.5 rardecode 1.1.0

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## 1.6 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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Found in path(s):

```
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a413a09/ply/lex.py  
* /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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```

Found in path(s):

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

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```

Found in path(s):

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

## 1.7 ulikunitz-xz 0.5.10

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```
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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)
  }
}
}
package main
```

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```

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# 1.8 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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## 1.9 go-diff lib 1.0.0

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## 1.10 afero 1.0.5

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# 1.11 rardecode 1.1.0

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## 1.13 errors 0.9.1

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## 1.17 archiver 3.5.1

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## 1.22 pierrec-iz4 4.1.15

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## 1.25 gdbm 1.23

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## 1.31 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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#### A. HISTORY OF THE SOFTWARE

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

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>)

in Reston, Virginia where he released several versions of the software.

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
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

Footnotes:

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

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

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

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

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

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1.3 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
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## 1.44 greenlet 0.4.13

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## 1.45 fmt 7.1.3-r1

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a



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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3				
2.1.2	2002	PSF	yes	
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
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	3.1.1	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
3.3.0	3.2	2012	PSF	yes

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In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software

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1.6.1	1.6	2001	CNRI	yes (2)
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2.0.1	2.0+1.6.1	2001	PSF	yes
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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```

```
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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`
```

```
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)
}
}
}
package main

```

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## 1.53 pflag 1.0.5

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## 1.54 goprotobuf 1.5.3

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## 1.56 x-text 0.14.0

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## 1.57 openssl 3.0.12

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## 1.77 pierrec-lz4 4.1.15

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## 1.78 phanidevavarapu-opamp-go 0.0.0-20240119161423-10380152d641

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# 1.87 otel-exporters-otlp-otlpmetric-otlpmetrichttp 1.23.0

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# 1.88 grpc-gateway 2.19.1

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# 1.98 genproto-googleapis-api 0.0.0-20240205150955-31a09d347014

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## 1.103 google-uuid 1.6.0

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builds:

```
10661a06190559379af3f2c99f89d8bacb4ecf6e017ca6b8b6d412110bdba37b:
  version: 10661a06190559379af3f2c99f89d8bacb4ecf6e017ca6b8b6d412110bdba37b
  blobstore_id: 297955b8-900e-4f9c-566e-975a5fb6f7cf
  sha1: sha256:b8f7807cd60f9b408b9885e502be6f20d7ec626aec181bc818cc7b432d5e4a63
4e41af694fbdc8ab0534f2adbfae5f87badd7dbf:
  version: 4e41af694fbdc8ab0534f2adbfae5f87badd7dbf
  blobstore_id: 8e7be692-660a-4f23-9e6d-f1fddee542f3
  sha1: 2d0c9c4e7d7b1e60d5eea18f76e5b137fb103d00
9841d3f4cf3430748ecd6b1c6308345f8bf9404a:
  version: 9841d3f4cf3430748ecd6b1c6308345f8bf9404a
  blobstore_id: 859cf0cd-dbaf-483c-86f4-364489f6c3a8
  sha1: fe031105547bdf52d046364ece11d0308169b5dd
format-version: "2"
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```
//go:build go1.10
```

```
// +build go1.10
```

```
package pq
```

```
import (  
    "context"  
    "database/sql/driver"  
)
```

```
// NoticeHandler returns the notice handler on the given connection, if any. A  
// runtime panic occurs if c is not a pq connection. This is rarely used  
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.  
func NoticeHandler(c driver.Conn) func(*Error) {  
    return c.(*conn).noticeHandler  
}
```

```
// SetNoticeHandler sets the given notice handler on the given connection. A  
// runtime panic occurs if c is not a pq connection. A nil handler may be used  
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and  
// ConnectorWithNoticeHandler instead.  
//
```

```

// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
//
// on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and
// setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
    }
}

```

```
return c
}
return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}
```

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Protocol Buffers for Go with Gadgets

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



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

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