



Open Source Used In Meeting Management 2.6

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
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```

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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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)

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usage: minibz2 [-d] [-{1,2,..9}] [[srcfilename] destfilename]

\*/

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## 1.96 celery 4.2.1

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The first commit to the Celery codebase was made on Fri Apr 24 13:30:00 2009 +0200, and has since then been improved by many contributors.

Everyone who have ever contributed to Celery should be in this list, but in a recent policy change it has been decided that everyone must add themselves here, and not be added by others, so it's currently incomplete waiting for everyone to add their names.

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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:

<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>

It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

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It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php\_curl, or with an Apache+mod\_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03 15:11:58 \$

Metadata-Version: 1.1

Name: certifi

Version: 2018.1.18

Summary: Python package for providing Mozilla's CA Bundle.

Home-page: <http://certifi.io/>

Author: Kenneth Reitz

Author-email: [me@kennethreitz.com](mailto:me@kennethreitz.com)

License: MPL-2.0

Description: Certifi: Python SSL Certificates

=====

`certifi` is a carefully curated collection of Root Certificates for validating the trustworthiness of SSL certificates while verifying the identity of TLS hosts. It has been extracted from the `Requests` project.

## Installation

-----

`certifi` is available on PyPI. Simply install it with `pip`:

```
$ pip install certifi
```

## Usage

-----

To reference the installed certificate authority (CA) bundle, you can use the built-in function:

```
>>> import certifi

>>> certifi.where()
/usr/local/lib/python2.7/site-packages/certifi/cacert.pem'
```

Enjoy!

## 1024-bit Root Certificates

~~~~~

Browsers and certificate authorities have concluded that 1024-bit keys are unacceptably weak for certificates, particularly root certificates. For this reason, Mozilla has removed any weak (i.e. 1024-bit key) certificate from its bundle, replacing it with an equivalent strong (i.e. 2048-bit or greater key) certificate from the same CA. Because Mozilla removed these certificates from its bundle, `certifi` removed them as well.

In previous versions, `certifi` provided the `certifi.old_where()` function to intentionally re-add the 1024-bit roots back into your bundle. This was not recommended in production and therefore was removed. To assist in migrating old code, the function `certifi.old_where()` continues to exist as an alias of `certifi.where()`. Please update your code to use `certifi.where()` instead. `certifi.old_where()` will be removed in 2018.

```
.. _`Certifi`: http://certifi.io/en/latest/
.. _`Requests`: http://docs.python-requests.org/en/latest/
```

Platform: UNKNOWN

Classifier: Development Status :: 5 - Production/Stable

Classifier: Intended Audience :: Developers

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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>  
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.  
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## 1.103 chardet 3.0.4

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## 1.113 core-util-is 1.0.2

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## 1.115 coverage 4.3.4

## 1.115.1 Available under license :

Coverage.py was originally written by Gareth Rees, and since 2004 has been extended and maintained by Ned Batchelder.

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## 1.121 cryptography-1.8.1 1.8.1

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#ifndef _KERBEROS_MIT_COPYRIGHT_H
#define _KERBEROS_MIT_COPYRIGHT_H
```

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#pragma ident "@(#)mit-sipb-copyright.h 1.5 93/02/04 SMI"
```

```
#endif /* _KERBEROS_MIT_COPYRIGHT_H */
```

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```

```
#define _KERBEROS_MIT_COPYRIGHT_H
```

```
/* #pragma ident "@(#)mit-copyright.h 1.4 93/02/04 SMI" */
```

```
#endif /* _KERBEROS_MIT_COPYRIGHT_H */
```

```
/* CMU libsasl
```

```
* Tim Martin
```

```
* Rob Earhart
```

```
* Rob Siemborski
```

```
*/
```

```
/*
```

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* Rob Earhart
* Rob Siemborski
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## 1.124 dcron 4.5

## 1.125 debug 2.6.9

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## 1.126 decorator 4.3.0

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```

node_modules/
npm-debug.log
{
 "disallowKeywordsOnNewLine": ["else"],
 "disallowMixedSpacesAndTabs": true,
 "disallowMultipleLineStrings": true,
 "disallowMultipleVarDecl": true,
 "disallowNewlineBeforeBlockStatements": true,
 "disallowQuotedKeysInObjects": true,
 "disallowSpaceAfterObjectKeys": true,
 "disallowSpaceAfterPrefixUnaryOperators": true,
 "disallowSpaceBeforePostfixUnaryOperators": true,
 "disallowSpacesInCallExpression": true,
 "disallowTrailingComma": true,
 "disallowTrailingWhitespace": true,
 "disallowYodaConditions": true,

 "requireCommaBeforeLineBreak": true,
 "requireOperatorBeforeLineBreak": true,
 "requireSpaceAfterBinaryOperators": true,
 "requireSpaceAfterKeywords": ["if", "for", "while", "else", "try", "catch"],
 "requireSpaceAfterLineComment": true,
 "requireSpaceBeforeBinaryOperators": true,
 "requireSpaceBeforeBlockStatements": true,
 "requireSpaceBeforeKeywords": ["else", "catch"],
 "requireSpaceBeforeObjectValues": true,
 "requireSpaceBetweenArguments": true,
 "requireSpacesInAnonymousFunctionExpression": {
 "beforeOpeningCurlyBrace": true
 },
 "requireSpacesInFunctionDeclaration": {
 "beforeOpeningCurlyBrace": true
 },
 "requireSpacesInFunctionExpression": {
 "beforeOpeningCurlyBrace": true
 },
 "requireSpacesInConditionalExpression": true,
 "requireSpacesInForStatement": true,
 "requireSpacesInsideArrayBrackets": "all",
 "requireSpacesInsideObjectBrackets": "all",
 "requireDotNotation": true,

 "maximumLineLength": 80,
 "validateIndentation": 2,
 "validateLineBreaks": "LF",
 "validateParameterSeparator": ", ",
 "validateQuoteMarks": ""
}

```

```

{
 // JSHint Default Configuration File (as on JSHint website)
 // See http://jshint.com/docs/ for more details

 "maxerr" : 50, // {int} Maximum error before stopping

 // Enforcing
 "bitwise" : false, // true: Prohibit bitwise operators (&, |, ^, etc.)
 "camelcase" : false, // true: Identifiers must be in camelCase
 "curly" : false, // true: Require {} for every new block or scope
 "eqeqeq" : true, // true: Require triple equals (===) for comparison
 "forin" : true, // true: Require filtering for..in loops with obj.hasOwnProperty()
 "freeze" : true, // true: prohibits overwriting prototypes of native objects such as Array, Date etc.
 "immed" : false, // true: Require immediate invocations to be wrapped in parens e.g. `(function () { } ());`
 "indent" : 2, // {int} Number of spaces to use for indentation
 "latedef" : true, // true: Require variables/functions to be defined before being used
 "newcap" : true, // true: Require capitalization of all constructor functions e.g. `new F()`
 "noarg" : true, // true: Prohibit use of `arguments.caller` and `arguments.callee`
 "noempty" : false, // true: Prohibit use of empty blocks
 "nonbsp" : true, // true: Prohibit "non-breaking whitespace" characters.
 "nonew" : false, // true: Prohibit use of constructors for side-effects (without assignment)
 "plusplus" : false, // true: Prohibit use of `++` & `--`
 "quotmark" : "single", // Quotation mark consistency:
 // false : do nothing (default)
 // true : ensure whatever is used is consistent
 // "single" : require single quotes
 // "double" : require double quotes
 "undef" : true, // true: Require all non-global variables to be declared (prevents global leaks)
 "unused" : true, // true: Require all defined variables be used
 "strict" : true, // true: Requires all functions run in ES5 Strict Mode
 "maxparams" : false, // {int} Max number of formal params allowed per function
 "maxdepth" : 3, // {int} Max depth of nested blocks (within functions)
 "maxstatements" : false, // {int} Max number statements per function
 "maxcomplexity" : false, // {int} Max cyclomatic complexity per function
 "maxlen" : false, // {int} Max number of characters per line

 // Relaxing
 "asi" : false, // true: Tolerate Automatic Semicolon Insertion (no semicolons)
 "boss" : false, // true: Tolerate assignments where comparisons would be expected
 "debug" : false, // true: Allow debugger statements e.g. browser breakpoints.
 "eqnull" : false, // true: Tolerate use of `== null`
 "es5" : false, // true: Allow ES5 syntax (ex: getters and setters)
 "esnext" : false, // true: Allow ES.next (ES6) syntax (ex: `const`)
 "moz" : false, // true: Allow Mozilla specific syntax (extends and overrides esnext features)
 // (ex: `for each`, multiple try/catch, function expression...)
 "evil" : false, // true: Tolerate use of `eval` and `new Function()`
 "expr" : false, // true: Tolerate `ExpressionStatement` as Programs
 "funcscope" : false, // true: Tolerate defining variables inside control statements

```

```

"globalstrict" : false, // true: Allow global "use strict" (also enables 'strict')
"iterator" : false, // true: Tolerate using the `__iterator__` property
"lastsemic" : false, // true: Tolerate omitting a semicolon for the last statement of a 1-line block
"laxbreak" : false, // true: Tolerate possibly unsafe line breakings
"laxcomma" : false, // true: Tolerate comma-first style coding
"loopfunc" : false, // true: Tolerate functions being defined in loops
"multistr" : false, // true: Tolerate multi-line strings
"noyield" : false, // true: Tolerate generator functions with no yield statement in them.
"notypeof" : false, // true: Tolerate invalid typeof operator values
"proto" : false, // true: Tolerate using the `__proto__` property
"scripturl" : false, // true: Tolerate script-targeted URLs
"shadow" : true, // true: Allows re-define variables later in code e.g. `var x=1; x=2;`
"sub" : false, // true: Tolerate using `[]` notation when it can still be expressed in dot notation
"supernew" : false, // true: Tolerate `new function () { ... };` and `new Object;`
"validthis" : false, // true: Tolerate using this in a non-constructor function

```

```
// Environments
```

```

"browser" : true, // Web Browser (window, document, etc)
"browserify" : true, // Browserify (node.js code in the browser)
"couch" : false, // CouchDB
"devel" : true, // Development/debugging (alert, confirm, etc)
"dojo" : false, // Dojo Toolkit
"jasmine" : false, // Jasmine
"jquery" : false, // jQuery
"mocha" : true, // Mocha
"mootools" : false, // MooTools
"node" : true, // Node.js
"nonstandard" : false, // Widely adopted globals (escape, unescape, etc)
"prototypejs" : false, // Prototype and Scriptaculous
"qunit" : false, // QUnit
"rhino" : false, // Rhino
"shelljs" : false, // ShellJS
"worker" : false, // Web Workers
"wsh" : false, // Windows Scripting Host
"yii" : false, // Yahoo User Interface

```

```
// Custom Globals
```

```

"globals" : {
 "module": true
} // additional predefined global variables
}

```

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## 1.129 detect-indent 4.0.0

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## 1.130 dhcp 4.3.6

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\* `configure.ac`, `Makefile.am`: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

\* `atf-c/ui.c`: The `format_paragraph` and `format_text` functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

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

Author: Julio Merino <jmmv84@gmail.com>

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

Author: Julio Merino <jmmv84@gmail.com>

```
=====
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
<!--
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-
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-->

<!-- Id -->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform"
xmlns:xi="http://www.w3.org/2001/XInclude"
xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">
 <xsl:param name="text"/>
 <xsl:value-of select="$isc.copyright.leader"/>
 <xsl:value-of select="normalize-space(substring-before($text, '
'))"/>
 <xsl:text>
</xsl:text>
 <xsl:variable name="rest" select="substring-after($text, '
')"/>
 <xsl:if test="translate($rest, '	 ', '')">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text" select="$rest"/>
 </xsl:call-template>
 </xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
 <xsl:text>
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 purpose with or without fee is hereby granted, provided that the above
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```

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```
</xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
 <xsl:call-template name="isc.copyright.format">
 <xsl:with-param name="text">
 <xsl:for-each select="book/info/copyright | refentry/docinfo/copyright">
 <xsl:text>Copyright (C) </xsl:text>
 <xsl:call-template name="copyright.years">
 <xsl:with-param name="years" select="year"/>
 </xsl:call-template>
 <xsl:text> </xsl:text>
 <xsl:value-of select="holder"/>
 <xsl:value-of select="$isc.copyright.breakline"/>
 <xsl:text>
</xsl:text>
 </xsl:for-each>
 <xsl:value-of select="$isc.copyright.text"/>
 </xsl:with-param>
 </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>
```

<!--

- Local variables:

- mode: sgml

- End:

-->

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## 1.131 diff-match-patch 20121119

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# 1.132 diffie-hellman 5.0.3

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# 1.133 Django 2.1.4

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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

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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                  |
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| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
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Advice for new contributors

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New contributor and not sure what to do? Want to help but just don't know how to get started? This is the section for you.

.. admonition:: Basic tools and workflow

If you are new to contributing to Django, the `:doc:`intro/contributing`` tutorial will give you an introduction to the tools and the workflow.

First steps

=====

Start with these easy tasks to discover Django's development process.

**\*\*Sign the Contributor License Agreement\*\***

The code that you write belongs to you or your employer. If your contribution is more than one or two lines of code, you need to sign the `CLA`\_. See the `Contributor License Agreement FAQ`\_ for a more thorough explanation.

#### \* \*\*Triage tickets\*\*

If an `unreviewed ticket`\_ reports a bug, try and reproduce it. If you can reproduce it and it seems valid, make a note that you confirmed the bug and accept the ticket. Make sure the ticket is filed under the correct component area. Consider writing a patch that adds a test for the bug's behavior, even if you don't fix the bug itself. See more at :ref:`how-can-i-help-with-triaging`

#### \* \*\*Look for tickets that are accepted and review patches to build familiarity with the codebase and the process\*\*

Mark the appropriate flags if a patch needs docs or tests. Look through the changes a patch makes, and keep an eye out for syntax that is incompatible with older but still supported versions of Python. :doc:`Run the tests </internals/contributing/writing-code/unit-tests>` and make sure they pass. Where possible and relevant, try them out on a database other than SQLite. Leave comments and feedback!

#### \* \*\*Keep old patches up to date\*\*

Oftentimes the codebase will change between a patch being submitted and the time it gets reviewed. Make sure it still applies cleanly and functions as expected. Simply updating a patch is both useful and important! See more on :doc:`writing-code/submitting-patches`.

#### \* \*\*Write some documentation\*\*

Django's documentation is great but it can always be improved. Did you find a typo? Do you think that something should be clarified? Go ahead and suggest a documentation patch! See also the guide on :doc:`writing-documentation`.

.. note::

The `reports page`\_ contains links to many useful Trac queries, including several that are useful for triaging tickets and reviewing patches as suggested above.

.. \_reports page: <https://code.djangoproject.com/wiki/Reports>

.. \_CLA: <https://www.djangoproject.com/foundation/cla/>

.. \_Contributor License Agreement FAQ: <https://www.djangoproject.com/foundation/cla/faq/>

.. \_unreviewed ticket: <https://code.djangoproject.com/query?status=!closed&stage=Unreviewed>

## Guidelines

=====

As a newcomer on a large project, it's easy to experience frustration. Here's some advice to make your work on Django more useful and rewarding.

\* \*\*Pick a subject area that you care about, that you are familiar with, or that you want to learn about\*\*

You don't already have to be an expert on the area you want to work on; you become an expert through your ongoing contributions to the code.

\* \*\*Analyze tickets' context and history\*\*

Trac isn't an absolute; the context is just as important as the words.

When reading Trac, you need to take into account who says things, and when they were said. Support for an idea two years ago doesn't necessarily mean that the idea will still have support. You also need to pay attention to who *hasn't* spoken -- for example, if an experienced contributor hasn't been recently involved in a discussion, then a ticket may not have the support required to get into Django.

\* \*\*Start small\*\*

It's easier to get feedback on a little issue than on a big one. See the ``easy pickings`_`.

\* \*\*If you're going to engage in a big task, make sure that your idea has support first\*\*

This means getting someone else to confirm that a bug is real before you fix the issue, and ensuring that there's consensus on a proposed feature before you go implementing it.

\* \*\*Be bold! Leave feedback!\*\*

Sometimes it can be scary to put your opinion out to the world and say "this ticket is correct" or "this patch needs work", but it's the only way the project moves forward. The contributions of the broad Django community ultimately have a much greater impact than that of any one person. We can't do it without *you*!

\* \*\*Err on the side of caution when marking things Ready For Check-in\*\*

If you're really not certain if a ticket is ready, don't mark it as

such. Leave a comment instead, letting others know your thoughts. If you're mostly certain, but not completely certain, you might also try asking on IRC to see if someone else can confirm your suspicions.

\* \*\*Wait for feedback, and respond to feedback that you receive\*\*

Focus on one or two tickets, see them through from start to finish, and repeat. The shotgun approach of taking on lots of tickets and letting some fall by the wayside ends up doing more harm than good.

\* \*\*Be rigorous\*\*

When we say ":pep:`8`, and must have docs and tests", we mean it. If a patch doesn't have docs and tests, there had better be a good reason. Arguments like "I couldn't find any existing tests of this feature" don't carry much weight--while it may be true, that means you have the extra-important job of writing the very first tests for that feature, not that you get a pass from writing tests altogether.

.. [\\_easy pickings: https://code.djangoproject.com/query?status=!closed&easy=1](https://code.djangoproject.com/query?status=!closed&easy=1)

.. [\\_new-contributors-faq:](#)

## FAQ

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1. **This ticket I care about has been ignored for days/weeks/months! What can I do to get it committed?**

First off, it's not personal. Django is entirely developed by volunteers (except the Django fellow), and sometimes folks just don't have time. The best thing to do is to send a gentle reminder to the `|django-developers|` mailing list asking for review on the ticket, or to bring it up in the ``#django-dev`` IRC channel.

2. **I'm sure my ticket is absolutely 100% perfect, can I mark it as RFC myself?**

Short answer: No. It's always better to get another set of eyes on a ticket. If you're having trouble getting that second set of eyes, see question 1, above.

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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     |
| 2.1.2         | 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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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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## FUNCTIONS

func Negotiate(header string, alternatives []string) (content\_type string)  
Negotiate the most appropriate content\_type given the accept header and a list of alternatives.

func ParseAccept(header string) (accept []Accept)  
Parse an Accept Header string returning a sorted list of clauses

## TYPES

```
type Accept struct {
 Type, SubType string
 Q float32
```

```
Params map[string]string
}
```

Structure to represent a clause in an HTTP Accept Header

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Extensions for Protocol Buffers to create more go like structures.

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<http://github.com/gogo/protobuf/gogoproto>

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

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

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see

<https://developers.google.com/protocol-buffers/>

## Installation ##

To use this software, you must:

- Install the standard C++ implementation of protocol buffers from <https://developers.google.com/protocol-buffers/>

- Of course, install the Go compiler and tools from <https://golang.org/>

See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at

<https://golang.org/doc/install/gccgo>

- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
```

The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers.

See the note at the bottom of this file for details.

There are no insertion points in the plugin.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf

see <http://github.com/gogo/protobuf/gogoprotoc/doc.go>

## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it.

First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo\_out parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto\_path to include the descriptor.proto and gogo.proto.  
gogo.proto is located in [github.com/gogo/protobuf/gogoprotos](https://github.com/gogo/protobuf/gogoprotos)  
This should be fine, since your import is the same.  
descriptor.proto is located in either [github.com/gogo/protobuf/protobuf](https://github.com/gogo/protobuf/protobuf)  
or [code.google.com/p/protobuf/trunk/src/](https://code.google.com/p/protobuf/trunk/src/)  
Its import is google/protobuf/descriptor.proto so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel\_case to CamelCase for export.
- There are no methods on v to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset.  
The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state.  
All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset.  
That is, optional or required field int32 f becomes F \*int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields.  
Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.  
msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default\_StructName\_FieldName.  
Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values.  
Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E\_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the

extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.

- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

message Test {
 required string label = 1;
 optional int32 type = 2 [default=77];
 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

To create and play with a Test object from the example package,

```
package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
 err = proto.Unmarshal(data, newTest)
 if err != nil {
 log.Fatal("unmarshaling error: ", err)
 }
}
```

```

}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

```

## gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go\_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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Extensions for Protocol Buffers to create more go like structures.

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See

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for details or, if you are using gccgo, follow the instructions at

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- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
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Once the software is installed, there are two steps to using it. First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run `protoc` with the `--gogo_out` parameter set to the directory you want to output the Go code to.

```
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```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
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```
=====
```

The `proto` package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for `.proto` files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable `v`:

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- There are getters that return a field's value if set, and return the field's default value if unset.

The getters work even if the receiver is a nil message.

- The zero value for a struct is its correct initialization state.

All desired fields must be set before marshaling.

- A `Reset()` method will restore a `protobuf` struct to its zero state.

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```
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package main

import (
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```

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```
protoc --gogo_out=plugins=grpc:. *.proto
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=====

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This should be fine, since your import is the same.

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 data, err := proto.Marshal(test)
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Consider file `test.proto`, containing

```
package example;

enum FOO { X = 17; };

message Test {
 required string label = 1;
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package main

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 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 },
```

```

}
data, err := proto.Marshal(test)
if err != nil {
 log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
 log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
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=====

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package example;

enum FOO { X = 17; };

message Test {
 required string label = 1;
 optional int32 type = 2 [default=77];
 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

To create and play with a Test object from the example package,

```
package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
 err = proto.Unmarshal(data, newTest)
 if err != nil {
 log.Fatal("unmarshaling error: ", err)
 }
 // Now test and newTest contain the same data.
 if test.GetLabel() != newTest.GetLabel() {
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=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the `--go_out` argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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Its import is [google/protobuf/descriptor.proto](https://code.google.com/p/protobuf/descriptor.proto) so it might need some help.

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 }
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```
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```

The generated files will be suffixed `.pb.go`. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any `gogo.proto` extensions you will need to specify the `proto_path` to include the `descriptor.proto` and `gogo.proto`. `gogo.proto` is located in `github.com/gogo/protobuf/gogoproto`. This should be fine, since your import is the same. `descriptor.proto` is located in either `github.com/gogo/protobuf/protobuf` or `code.google.com/p/protobuf/trunk/src/`. Its import is `google/protobuf/descriptor.proto` so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

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- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```
package example;
```

```
enum FOO { X = 17; };
```

```
message Test {
 required string label = 1;
 optional int32 type = 2 [default=77];
 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

To create and play with a Test object from the example package,

```
package main
```

```
import (
 "log"
```

```
 "github.com/gogo/protobuf/proto"
```

```
 "path/to/example"
```

```

)

func main() {
test := &example.Test {
Label: proto.String("hello"),
Type: proto.Int32(17),
Optionalgroup: &example.Test_OptionalGroup {
RequiredField: proto.String("good bye"),
},
}
data, err := proto.Marshal(test)
if err != nil {
log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
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}
// etc.
}

```

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=====

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```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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gogo.proto is located in [github.com/gogo/protobuf/gogoprototo](https://github.com/gogo/protobuf/gogoprototo)

This should be fine, since your import is the same.

descriptor.proto is located in either [github.com/gogo/protobuf/protobuf](https://github.com/gogo/protobuf/protobuf) or [code.google.com/p/protobuf/trunk/src/](https://code.google.com/p/protobuf/trunk/src/)

Its import is [google/protobuf/descriptor.proto](https://code.google.com/p/protobuf/trunk/src/) so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

```
=====
```

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel\_case to CamelCase for export.
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The getters work even if the receiver is a nil message.

- The zero value for a struct is its correct initialization state.

All desired fields must be set before marshaling.

- A Reset() method will restore a protobuf struct to its zero state.

- Non-repeated fields are pointers to the values; nil means unset.

That is, optional or required field int32 f becomes F \*int32.

- Repeated fields are slices.

- Helper functions are available to aid the setting of fields.

Helpers for getting values are superseded by the

GetFoo methods and their use is deprecated.

```
msg.Foo = proto.String("hello") // set field
```

- Constants are defined to hold the default values of all fields that have them. They have the form Default\_StructName\_FieldName.

Because the getter methods handle defaulted values,

direct use of these constants should be rare.

- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
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- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

message Test {
 required string label = 1;
 optional int32 type = 2 [default=77];
 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

To create and play with a Test object from the example package,

```
package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
}
```

```

data, err := proto.Marshal(test)
if err != nil {
 log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{ }
err = proto.Unmarshal(data, newTest)
if err != nil {
 log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

```

## gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the `--go_out` argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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- Of course, install the Go compiler and tools from <https://golang.org/>

See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at

<https://golang.org/doc/install/gccgo>

- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
```

The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol

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See the note at the bottom of this file for details.

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GoGoProtobuf provides extensions for protocol buffers and GoProtobuf  
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First you must compile the protocol buffer definitions and then import  
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To compile the protocol buffer definition, run protoc with the --gogo\_out  
parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed .pb.go. See the Test code below  
for an example using such a file.

The package comment for the proto library contains text describing  
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gogo.proto is located in [github.com/gogo/protobuf/gogoproto](http://github.com/gogo/protobuf/gogoproto)  
This should be fine, since your import is the same.  
descriptor.proto is located in either [github.com/gogo/protobuf/protobuf](http://github.com/gogo/protobuf/protobuf)  
or [code.google.com/p/protobuf/trunk/src/](http://code.google.com/p/protobuf/trunk/src/)  
Its import is [google/protobuf/descriptor.proto](http://google/protobuf/descriptor.proto) so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

```
=====
```

The proto package converts data structures to and from the  
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msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default\_StructName\_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
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 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

To create and play with a Test object from the example package,

```
package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
 err = proto.Unmarshal(data, newTest)
 if err != nil {
 log.Fatal("unmarshaling error: ", err)
 }
 // Now test and newTest contain the same data.
 if test.GetLabel() != newTest.GetLabel() {
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
 }
 // etc.
}
```

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=====

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```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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- Grab the code from the repository and install the proto package.  
The simplest way is to run 

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## Using protocol buffers with Go ##

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First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo\_out parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the

proto\_path to include the descriptor.proto and gogo.proto.  
gogo.proto is located in [github.com/gogo/protobuf/gogoproto](https://github.com/gogo/protobuf/gogoproto)  
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or [code.google.com/p/protobuf/trunk/src/](https://code.google.com/p/protobuf/trunk/src/)  
Its import is [google/protobuf/descriptor.proto](https://code.google.com/p/protobuf/descriptor.proto) so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

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Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

message Test {
 required string label = 1;
 optional int32 type = 2 [default=77];
 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

To create and play with a Test object from the example package,

```
package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
 err = proto.Unmarshal(data, newTest)
 if err != nil {
 log.Fatal("unmarshaling error: ", err)
 }
 // Now test and newTest contain the same data.
```

```
if test.GetLabel() != newTest.GetLabel() {
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}
```

## gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go\_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

-----  
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The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
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## ## Using protocol buffers with Go ##

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To compile the protocol buffer definition, run `protoc` with the `--gogo_out` parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed `.pb.go`. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any `gogo.proto` extensions you will need to specify the `proto_path` to include the `descriptor.proto` and `gogo.proto`. `gogo.proto` is located in `github.com/gogo/protobuf/gogoproto`. This should be fine, since your import is the same. `descriptor.proto` is located in either `github.com/gogo/protobuf/protobuf` or `code.google.com/p/protobuf/trunk/src/`. Its import is `google/protobuf/descriptor.proto` so it might need some help.

```
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```

=====

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A summary of the properties of the protocol buffer interface for a protocol buffer variable `v`:

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All desired fields must be set before marshaling.

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That is, optional or required field `int32 f` becomes `F *int32`.

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  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```
package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
)
```

```

func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type: proto.Int32(17),
        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
        log.Fatal("unmarshaling error: ", err)
    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
        log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
    }
    // etc.
}

```

gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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  }
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 - Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
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package example;

enum FOO { X = 17; };

message Test {
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  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a `Test` object from the example package,

```
package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
```

```

if err != nil {
    log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
    log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
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```

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```
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```

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```

```
message Test {
```

```
  required string label = 1;
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```
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  optional group OptionalGroup = 4 {
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```
    required string RequiredField = 5;
```

```
  }
```

```
}
```

To create and play with a Test object from the example package,

```

package main

import (
    "log"

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func main() {
    test := &example.Test {
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    }
    data, err := proto.Marshal(test)
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    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
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  }
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package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
  if err != nil {
    log.Fatal("unmarshaling error: ", err)
  }
  // Now test and newTest contain the same data.
  if test.GetLabel() != newTest.GetLabel() {
```

```
    log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}
```

gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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<http://github.com/gogo/protobuf/gogoproto>

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

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See

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for details or, if you are using gccgo, follow the instructions at

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- Grab the code from the repository and install the proto package.

The simplest way is to run

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To compile the protocol buffer definition, run `protoc` with the `--gogo_out` parameter set to the directory you want to output the Go code to.

```
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The generated files will be suffixed `.pb.go`. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any `gogo.proto` extensions you will need to specify the `proto_path` to include the `descriptor.proto` and `gogo.proto`. `gogo.proto` is located in `github.com/gogo/protobuf/gogoproto`. This should be fine, since your import is the same. `descriptor.proto` is located in either `github.com/gogo/protobuf/protobuf` or `code.google.com/p/protobuf/trunk/src/`. Its import is `google/protobuf/descriptor.proto` so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

The `proto` package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for `.proto` files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable `v`:

- Names are turned from `camel_case` to `CamelCase` for export.
- There are no methods on `v` to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset. The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
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- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field `int32 f` becomes `F *int32`.
- Repeated fields are slices.

- Helper functions are available to aid the setting of fields.
Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.
msg.Foo = proto.String("hello") // set field
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- Nested groups and enums have type names prefixed with the name of the surrounding message type.
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  optional group OptionalGroup = 4 {
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import (
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func main() {
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        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
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```
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```

```
=====
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All desired fields must be set before marshaling.

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Helpers for getting values are superseded by the

GetFoo methods and their use is deprecated.

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msg.Foo = proto.String("hello") // set field
```

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- Nested groups and enums have type names prefixed with the name of the surrounding message type.

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Consider file test.proto, containing

```
package example;
```

```
enum FOO { X = 17; };
```

```
message Test {
```

```

required string label = 1;
optional int32 type = 2 [default=77];
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optional group OptionalGroup = 4 {
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}
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To create and play with a Test object from the example package,

```

package main

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    test := &example.Test {
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        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
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    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
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    }
    // etc.
}

```

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=====

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```
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```

=====

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  test := &example.Test {
    Label: proto.String("hello"),
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    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
```

```

log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{ }
err = proto.Unmarshal(data, newTest)
if err != nil {
log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
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// etc.
}

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=====

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  optional group OptionalGroup = 4 {
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  }
}
```

To create and play with a Test object from the example package,

```

package main

import (
    "log"

    "github.com/gogo/protobuf/proto"
    "path/to/example"
)

func main() {
    test := &example.Test {
        Label: proto.String("hello"),
        Type: proto.Int32(17),
        Optionalgroup: &example.Test_OptionalGroup {
            RequiredField: proto.String("good bye"),
        },
    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{}
    err = proto.Unmarshal(data, newTest)
    if err != nil {
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    }
    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
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    }
    // etc.
}

```

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```
protoc --go_out=plugins=grpc:. *.proto
```

=====

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<http://github.com/gogo/protobuf/gogoproto>

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This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf
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}
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```
package main

import (
  "log"

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}
```

```
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// etc.  
}
```

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```
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```

=====

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```
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```

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Consider file test.proto, containing

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package example;
```

```
enum FOO { X = 17; };
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```
message Test {  
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  optional group OptionalGroup = 4 {  
    required string RequiredField = 5;  
  }  
}
```

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```
package main
```

```
import (  
  "log"  
  
  "github.com/gogo/protobuf/proto"  
  "path/to/example"  
)
```

```
func main() {
```

```

test := &example.Test {
  Label: proto.String("hello"),
  Type: proto.Int32(17),
  Optionalgroup: &example.Test_OptionalGroup {
    RequiredField: proto.String("good bye"),
  },
}
data, err := proto.Marshal(test)
if err != nil {
  log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
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}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
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// etc.
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```

```

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    }
    data, err := proto.Marshal(test)
    if err != nil {
        log.Fatal("marshaling error: ", err)
    }
    newTest := &example.Test{ }
    err = proto.Unmarshal(data, newTest)
    if err != nil {
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    }
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```
protoc --gogo_out=plugins=grpc:. *.proto
```

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

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see

<https://developers.google.com/protocol-buffers/>

Installation

To use this software, you must:

- Install the standard C++ implementation of protocol buffers from

<https://developers.google.com/protocol-buffers/>

- Of course, install the Go compiler and tools from

<https://golang.org/>

See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at

<https://golang.org/doc/install/gccgo>

- Grab the code from the repository and install the proto package.

The simplest way is to run ``go get -u github.com/golang/protobuf/{proto,protoc-gen-go}``.

The compiler plugin, `protoc-gen-go`, will be installed in `$GOBIN`,

defaulting to `$GOPATH/bin`. It must be in your `$PATH` for the protocol compiler, `protoc`, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers.

See the note at the bottom of this file for details.

There are no insertion points in the plugin.

Using protocol buffers with Go

Once the software is installed, there are two steps to using it.

First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run `protoc` with the `--go_out` parameter set to the directory you want to output the Go code to.

```
protoc --go_out=. *.proto
```

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

```
=====
```

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel_case to CamelCase for export.
- There are no methods on v to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset. The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F *int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields. Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.
msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the

extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.

- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

When the .proto file specifies `syntax="proto3"`, there are some differences:

- Non-repeated fields of non-message type are values instead of pointers.
- Getters are only generated for message and oneof fields.
- Enum types do not get an Enum method.

Consider file test.proto, containing

```
```proto
package example;

enum FOO { X = 17; };

message Test {
 required string label = 1;
 optional int32 type = 2 [default=77];
 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```
```

To create and play with a Test object from the example package,

```
```go
package main

import (
 "log"

 "github.com/golang/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Reps: []int64{1, 2, 3},
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 }
 }
}
```

```

 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{ }
 err = proto.Unmarshal(data, newTest)
 if err != nil {
 log.Fatal("unmarshaling error: ", err)
 }
 // Now test and newTest contain the same data.
 if test.GetLabel() != newTest.GetLabel() {
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
 }
 // etc.
}
...

```

### ## Parameters ##

To pass extra parameters to the plugin, use a comma-separated parameter list separated from the output directory by a colon:

```
protoc --go_out=plugins=grpc,import_path=mypackage:. *.proto
```

- ``import_prefix=xxx`` - a prefix that is added onto the beginning of all imports. Useful for things like generating protos in a subdirectory, or regenerating vendored protobufs in-place.
- ``import_path=foo/bar`` - used as the package if no input files declare ``go_package``. If it contains slashes, everything up to the rightmost slash is ignored.
- ``plugins=plugin1+plugin2`` - specifies the list of sub-plugins to load. The only plugin in this repo is ``grpc``.
- ``Mfoo/bar.proto=quux/shme`` - declares that `foo/bar.proto` is associated with Go package `quux/shme`. This is subject to the `import_prefix` parameter.

### ## gRPC Support ##

If a proto file specifies RPC services, `protoc-gen-go` can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the ``plugins`` parameter to `protoc-gen-go`; the usual way is to insert it into the `--go_out` argument to `protoc`:

```
protoc --go_out=plugins=grpc:. *.proto
```

=====

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Gocheck - A rich testing framework for Go

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

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ffjson

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

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Extensions for Protocol Buffers to create more go like structures.

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<http://github.com/gogo/protobuf/gogoproto>

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

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Gocheck - A rich testing framework for Go

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## FUNCTIONS

func Negotiate(header string, alternatives []string) (content\_type string)  
Negotiate the most appropriate content\_type given the accept header and a list of alternatives.

func ParseAccept(header string) (accept []Accept)  
Parse an Accept Header string returning a sorted list of clauses

## TYPES

```
type Accept struct {
 Type, SubType string
 Q float32
 Params map[string]string
}
```

Structure to represent a clause in an HTTP Accept Header

## SUBDIRECTORIES

.hg

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<http://github.com/gogo/protobuf/gogoproto>

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

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See

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- Grab the code from the repository and install the proto package.

The simplest way is to run

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```

The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

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## ## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it.

First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo\_out parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto\_path to include the descriptor.proto and gogo.proto.

gogo.proto is located in [github.com/gogo/protobuf/gogoprotos](https://github.com/gogo/protobuf/gogoprotos)

This should be fine, since your import is the same.

descriptor.proto is located in either [github.com/gogo/protobuf/protobuf](https://github.com/gogo/protobuf/protobuf) or [code.google.com/p/protobuf/trunk/src/](https://code.google.com/p/protobuf/trunk/src/)

Its import is `google/protobuf/descriptor.proto` so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

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All desired fields must be set before marshaling.

- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes `F *int32`.

- Repeated fields are slices.
- Helper functions are available to aid the setting of fields.

Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.

```
msg.Foo = proto.String("hello") // set field
```

- Constants are defined to hold the default values of all fields that have them. They have the form `Default_StructName_FieldName`. Because the getter methods handle defaulted values, direct use of these constants should be rare.

- Enums are given type names and maps from names to values.

Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.

- Nested groups and enums have type names prefixed with the name of

the surrounding message type.

- Extensions are given descriptor names that start with E\_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

message Test {
 required string label = 1;
 optional int32 type = 2 [default=77];
 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

To create and play with a Test object from the example package,

```
package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
}
```

```

newTest := &example.Test{ }
err = proto.Unmarshal(data, newTest)
if err != nil {
 log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

```

## gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go\_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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See

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- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
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The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

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gogo.proto is located in [github.com/gogo/protobuf/gogoproto](http://github.com/gogo/protobuf/gogoproto)  
This should be fine, since your import is the same.  
descriptor.proto is located in either [github.com/gogo/protobuf/protobuf](http://github.com/gogo/protobuf/protobuf)  
or [code.google.com/p/protobuf/trunk/src/](http://code.google.com/p/protobuf/trunk/src/)  
Its import is [google/protobuf/descriptor.proto](http://google/protobuf/descriptor.proto) so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

```
=====
```

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```

```

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)

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 test := &example.Test {
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 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
 err = proto.Unmarshal(data, newTest)
 if err != nil {
 log.Fatal("unmarshaling error: ", err)
 }
 // Now test and newTest contain the same data.
 if test.GetLabel() != newTest.GetLabel() {
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
 }
 // etc.
}

```

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```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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- Nested groups and enums have type names prefixed with the name of the surrounding message type.
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message Test {
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 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

To create and play with a Test object from the example package,

```
package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
 err = proto.Unmarshal(data, newTest)
 if err != nil {
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 }
 // Now test and newTest contain the same data.
 if test.GetLabel() != newTest.GetLabel() {
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
 }
 // etc.
```

}

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=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go\_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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The simplest way is to run

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If you are using any `gogo.proto` extensions you will need to specify the `proto_path` to include the `descriptor.proto` and `gogo.proto`.

`gogo.proto` is located in `github.com/gogo/protobuf/gogoproto`

This should be fine, since your import is the same.

`descriptor.proto` is located in either `github.com/gogo/protobuf/protobuf` or `code.google.com/p/protobuf/trunk/src/`

Its import is `google/protobuf/descriptor.proto` so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

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All desired fields must be set before marshaling.

- A `Reset()` method will restore a `protobuf` struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field `int32 f` becomes `F *int32`.

- Repeated fields are slices.
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Helpers for getting values are superseded by the

`GetFoo` methods and their use is deprecated.

- ```
msg.Foo = proto.String("hello") // set field
```
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}
```

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func main() {
  test := &example.Test {
    Label: proto.String("hello"),
```

```

Type: proto.Int32(17),
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  RequiredField: proto.String("good bye"),
},
}
data, err := proto.Marshal(test)
if err != nil {
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newTest := &example.Test{}
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=====

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```

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If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.
gogo.proto is located in github.com/gogo/protobuf/gogoprotobuf
This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf
or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

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A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

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Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
```

```

optional group OptionalGroup = 4 {
  required string RequiredField = 5;
}
}

```

To create and play with a Test object from the example package,

```

package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
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)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{ }
  err = proto.Unmarshal(data, newTest)
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  }
  // Now test and newTest contain the same data.
  if test.GetLabel() != newTest.GetLabel() {
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  }
  // etc.
}

```

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```

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  "log"

  "github.com/gogo/protobuf/proto"
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    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
```

```

err = proto.Unmarshal(data, newTest)
if err != nil {
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}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
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If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.
gogo.proto is located in github.com/gogo/protobuf/gogoprotobuf
This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf
or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

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```
msg.Foo = proto.String("hello") // set field
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Consider file test.proto, containing

```
package example;

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  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
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  }
}
```

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package main

import (
```

```

"log"

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"path/to/example"
)

func main() {
test := &example.Test {
Label: proto.String("hello"),
Type: proto.Int32(17),
Optionalgroup: &example.Test_OptionalGroup {
RequiredField: proto.String("good bye"),
},
}
data, err := proto.Marshal(test)
if err != nil {
log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{ }
err = proto.Unmarshal(data, newTest)
if err != nil {
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// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
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}
// etc.
}

```

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If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
```

The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

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```
## Using protocol buffers with Go ##
```

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To compile the protocol buffer definition, run protoc with the --gogo_out parameter set to the directory you want to output the Go code to.

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If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.

gogo.proto is located in github.com/gogo/protobuf/gogoproto

This should be fine, since your import is the same.

descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/

Its import is google/protobuf/descriptor.proto so it might need some help.

```
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msg.Foo = proto.String("hello") // set field
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    required string RequiredField = 5;
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}

```

To create and play with a Test object from the example package,

```

package main

import (
  "log"

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  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
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  // etc.
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```

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```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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msg.Foo = proto.String("hello") // set field
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- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- `Marshal` and `Unmarshal` are functions to encode and decode the wire format.

Consider file `test.proto`, containing

```
package example;

enum FOO { X = 17; };

message Test {
 required string label = 1;
 optional int32 type = 2 [default=77];
 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

To create and play with a `Test` object from the example package,

```
package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
```

```

Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
},
}
data, err := proto.Marshal(test)
if err != nil {
 log.Fatal("marshaling error: ", err)
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newTest := &example.Test{ }
err = proto.Unmarshal(data, newTest)
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=====

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 optional group OptionalGroup = 4 {
```

```

 required string RequiredField = 5;
}
}

```

To create and play with a Test object from the example package,

```

package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
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func main() {
 test := &example.Test {
 Label: proto.String("hello"),
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 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
 err = proto.Unmarshal(data, newTest)
 if err != nil {
 log.Fatal("unmarshaling error: ", err)
 }
 // Now test and newTest contain the same data.
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- Grab the code from the repository and install the proto package.

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 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
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 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
 err = proto.Unmarshal(data, newTest)
```

```

if err != nil {
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}
// Now test and newTest contain the same data.
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=====

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package main
```

```
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```

```

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data, err := proto.Marshal(test)
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```

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 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
```

```

 RequiredField: proto.String("good bye"),
 },
}
data, err := proto.Marshal(test)
if err != nil {
 log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
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// Now test and newTest contain the same data.
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```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

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 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

To create and play with a Test object from the example package,

```
package main

import (
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 "github.com/gogo/protobuf/proto"
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)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
 err = proto.Unmarshal(data, newTest)
 if err != nil {
```

```

log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

```

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=====

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```
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```

=====

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A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel\_case to CamelCase for export.
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msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default\_StructName\_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
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package example;
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enum FOO { X = 17; };

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 required string label = 1;
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To create and play with a Test object from the example package,

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package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
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 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
 err = proto.Unmarshal(data, newTest)
 if err != nil {
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 // Now test and newTest contain the same data.
 if test.GetLabel() != newTest.GetLabel() {
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## gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the `--go_out` argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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Extensions for Protocol Buffers to create more go like structures.

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See

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- Grab the code from the repository and install the proto package.

The simplest way is to run

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The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

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There is support for gRPC in Go using protocol buffers. See the note at the bottom of this file for details.

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### ## Using protocol buffers with Go ##

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First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo\_out

parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed `.pb.go`. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any `gogo.proto` extensions you will need to specify the `proto_path` to include the `descriptor.proto` and `gogo.proto`.

`gogo.proto` is located in `github.com/gogo/protobuf/gogoproto`

This should be fine, since your import is the same.

`descriptor.proto` is located in either `github.com/gogo/protobuf/protobuf` or `code.google.com/p/protobuf/trunk/src/`

Its import is `google/protobuf/descriptor.proto` so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

```
=====
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The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for `.proto` files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable `v`:

- Names are turned from `camel_case` to `CamelCase` for export.
- There are no methods on `v` to set fields; just treat them as structure fields.

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The getters work even if the receiver is a nil message.

- The zero value for a struct is its correct initialization state.

All desired fields must be set before marshaling.

- A `Reset()` method will restore a `protobuf` struct to its zero state.

- Non-repeated fields are pointers to the values; nil means unset.

That is, optional or required field `int32 f` becomes `F *int32`.

- Repeated fields are slices.

- Helper functions are available to aid the setting of fields.

Helpers for getting values are superseded by the

`GetFoo` methods and their use is deprecated.

```
msg.Foo = proto.String("hello") // set field
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package main

import (
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```

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```
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=====

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 test := &example.Test {
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 data, err := proto.Marshal(test)
 if err != nil {
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=====

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=====

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```

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```
package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
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)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
 err = proto.Unmarshal(data, newTest)
 if err != nil {
 log.Fatal("unmarshaling error: ", err)
 }
}
```

```

}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
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}
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```

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```
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=====

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See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at

<https://golang.org/doc/install/gccgo>

- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
```

The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers.

See the note at the bottom of this file for details.

There are no insertion points in the plugin.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf

see <http://github.com/gogo/protobuf/gogoproto/doc.go>

## ## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it. First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run `protoc` with the `--gogo_out` parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed `.pb.go`. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any `gogo.proto` extensions you will need to specify the `proto_path` to include the `descriptor.proto` and `gogo.proto`. `gogo.proto` is located in [github.com/gogo/protobuf/gogoproto](http://github.com/gogo/protobuf/gogoproto). This should be fine, since your import is the same. `descriptor.proto` is located in either [github.com/gogo/protobuf/protobuf](http://github.com/gogo/protobuf/protobuf) or [code.google.com/p/protobuf/trunk/src/](http://code.google.com/p/protobuf/trunk/src/). Its import is `google/protobuf/descriptor.proto` so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

```
=====
```

The `proto` package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for `.proto` files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable `v`:

- Names are turned from `camel_case` to `CamelCase` for export.
- There are no methods on `v` to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset.

The getters work even if the receiver is a nil message.

- The zero value for a struct is its correct initialization state.

All desired fields must be set before marshaling.

- A `Reset()` method will restore a `protobuf` struct to its zero state.

- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F \*int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields. Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.
 

```
msg.Foo = proto.String("hello") // set field
```
- Constants are defined to hold the default values of all fields that have them. They have the form Default\_StructName\_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E\_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

message Test {
 required string label = 1;
 optional int32 type = 2 [default=77];
 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

To create and play with a Test object from the example package,

```
package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
```

```

"path/to/example"
)

func main() {
test := &example.Test {
Label: proto.String("hello"),
Type: proto.Int32(17),
Optionalgroup: &example.Test_OptionalGroup {
RequiredField: proto.String("good bye"),
},
}
data, err := proto.Marshal(test)
if err != nil {
log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

```

## gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go\_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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Extensions for Protocol Buffers to create more go like structures.

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<http://github.com/gogo/protobuf/gogoproto>

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

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

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

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see

<https://developers.google.com/protocol-buffers/>

## Installation ##

To use this software, you must:

- Install the standard C++ implementation of protocol buffers from

<https://developers.google.com/protocol-buffers/>

- Of course, install the Go compiler and tools from

<https://golang.org/>

See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at

<https://golang.org/doc/install/gccgo>

- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
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The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers.

See the note at the bottom of this file for details.

There are no insertion points in the plugin.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf see <http://github.com/gogo/protobuf/gogoprotoc/doc.go>

## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it.

First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo\_out parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto\_path to include the descriptor.proto and gogo.proto.

gogo.proto is located in [github.com/gogo/protobuf/gogoprotoc](http://github.com/gogo/protobuf/gogoprotoc)

This should be fine, since your import is the same.

descriptor.proto is located in either [github.com/gogo/protobuf/protobuf](http://github.com/gogo/protobuf/protobuf) or [code.google.com/p/protobuf/trunk/src/](http://code.google.com/p/protobuf/trunk/src/)

Its import is [google/protobuf/descriptor.proto](http://google/protobuf/descriptor.proto) so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel\_case to CamelCase for export.
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- The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F \*int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields. Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.  
msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default\_StructName\_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E\_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

package example;

```

enum FOO { X = 17; };

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 required string label = 1;
 optional int32 type = 2 [default=77];
 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}

```

To create and play with a Test object from the example package,

```

package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
 err = proto.Unmarshal(data, newTest)
 if err != nil {
 log.Fatal("unmarshaling error: ", err)
 }
 // Now test and newTest contain the same data.
 if test.GetLabel() != newTest.GetLabel() {
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
 }
 // etc.
}

```

gRPC Support

=====  
If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go\_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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

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

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see

<https://developers.google.com/protocol-buffers/>

### ## Installation ##

To use this software, you must:

- Install the standard C++ implementation of protocol buffers from

<https://developers.google.com/protocol-buffers/>

- Of course, install the Go compiler and tools from

<https://golang.org/>

See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at

<https://golang.org/doc/install/gccgo>

- Grab the code from the repository and install the proto package.

The simplest way is to run ``go get -u github.com/golang/protobuf/{proto,protoc-gen-go}``.

The compiler plugin, `protoc-gen-go`, will be installed in `$GOBIN`,

defaulting to `$GOPATH/bin`. It must be in your `$PATH` for the protocol compiler, `protoc`, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers.

See the note at the bottom of this file for details.

There are no insertion points in the plugin.

### ## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it.

First you must compile the protocol buffer definitions and then import

them, with the support library, into your program.

To compile the protocol buffer definition, run `protoc` with the `--go_out` parameter set to the directory you want to output the Go code to.

```
protoc --go_out=. *.proto
```

The generated files will be suffixed `.pb.go`. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

```
=====
```

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for `.proto` files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable `v`:

- Names are turned from `camel_case` to `CamelCase` for export.
- There are no methods on `v` to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset.

The getters work even if the receiver is a nil message.

- The zero value for a struct is its correct initialization state.

All desired fields must be set before marshaling.

- A `Reset()` method will restore a `protobuf` struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field `int32 f` becomes `F *int32`.

- Repeated fields are slices.
- Helper functions are available to aid the setting of fields.

Helpers for getting values are superseded by the `GetFoo` methods and their use is deprecated.

```
msg.Foo = proto.String("hello") // set field
```

- Constants are defined to hold the default values of all fields that have them. They have the form `Default_StructName_FieldName`.

Because the getter methods handle defaulted values, direct use of these constants should be rare.

- Enums are given type names and maps from names to values.

Enum values are prefixed with the enum's type name. Enum types have a `String` method, and a `Enum` method to assist in message construction.

- Nested groups and enums have type names prefixed with the name of

the surrounding message type.

- Extensions are given descriptor names that start with E\_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

When the .proto file specifies `syntax="proto3"`, there are some differences:

- Non-repeated fields of non-message type are values instead of pointers.
- Getters are only generated for message and oneof fields.
- Enum types do not get an Enum method.

Consider file test.proto, containing

```
```proto
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```
```

To create and play with a Test object from the example package,

```
```go
package main

import (
  "log"

  "github.com/golang/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
  }
}
```

```

Type: proto.Int32(17),
Reps: []int64{ 1, 2, 3},
Optionalgroup: &example.Test_OptionalGroup {
  RequiredField: proto.String("good bye"),
},
}
data, err := proto.Marshal(test)
if err != nil {
  log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{ }
err = proto.Unmarshal(data, newTest)
if err != nil {
  log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
  log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}
...

```

Parameters

To pass extra parameters to the plugin, use a comma-separated parameter list separated from the output directory by a colon:

```
protoc --go_out=plugins=grpc,import_path=mypackage:. *.proto
```

- ``import_prefix=xxx`` - a prefix that is added onto the beginning of all imports. Useful for things like generating protos in a subdirectory, or regenerating vendored protobufs in-place.
- ``import_path=foo/bar`` - used as the package if no input files declare ``go_package``. If it contains slashes, everything up to the rightmost slash is ignored.
- ``plugins=plugin1+plugin2`` - specifies the list of sub-plugins to load. The only plugin in this repo is ``grpc``.
- ``Mfoo/bar.proto=quux/shme`` - declares that `foo/bar.proto` is associated with Go package `quux/shme`. This is subject to the `import_prefix` parameter.

gRPC Support

If a proto file specifies RPC services, `protoc-gen-go` can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass

the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

```
protoc --go_out=plugins=grpc:. *.proto
```

=====

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

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Extensions for Protocol Buffers to create more go like structures.

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<http://github.com/gogo/protobuf/gogoproto>

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FUNCTIONS

`func Negotiate(header string, alternatives []string) (content_type string)`
Negotiate the most appropriate content_type given the accept header and a list of alternatives.

`func ParseAccept(header string) (accept []Accept)`
Parse an Accept Header string returning a sorted list of clauses

TYPES

```
type Accept struct {  
    Type, SubType string  
    Q          float32  
    Params    map[string]string  
}
```

Structure to represent a clause in an HTTP Accept Header

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<http://github.com/gogo/protobuf/gogoproto>

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

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This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see <https://developers.google.com/protocol-buffers/>

Installation

To use this software, you must:

- Install the standard C++ implementation of protocol buffers from <https://developers.google.com/protocol-buffers/>
- Of course, install the Go compiler and tools from <https://golang.org/>

See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at

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- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
```

The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

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Using protocol buffers with Go

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First you must compile the protocol buffer definitions and then import
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parameter set to the directory you want to output the Go code to.

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protoc --gogo_out=. *.proto
```

The generated files will be suffixed .pb.go. See the Test code below
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The package comment for the proto library contains text describing
the interface provided in Go for protocol buffers. Here is an edited
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proto_path to include the descriptor.proto and gogo.proto.
gogo.proto is located in github.com/gogo/protobuf/gogoprotoc
This should be fine, since your import is the same.
descriptor.proto is located in either github.com/gogo/protobuf/protobuf
or code.google.com/p/protobuf/trunk/src/
Its import is google/protobuf/descriptor.proto so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

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- The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F *int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields. Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.


```
msg.Foo = proto.String("hello") // set field
```
- Constants are defined to hold the default values of all fields that have them. They have the form Default_StructName_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
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Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
  repeated int64 reps = 3;
  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}
```

To create and play with a Test object from the example package,

```
package main

import (
```

```

"log"

"github.com/gogo/protobuf/proto"
"path/to/example"
)

func main() {
test := &example.Test {
Label: proto.String("hello"),
Type: proto.Int32(17),
Optionalgroup: &example.Test_OptionalGroup {
RequiredField: proto.String("good bye"),
},
}
data, err := proto.Marshal(test)
if err != nil {
log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

```

gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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The simplest way is to run

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go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
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The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

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```
## Using protocol buffers with Go ##
```

Once the software is installed, there are two steps to using it.

First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo_out parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto_path to include the descriptor.proto and gogo.proto.

gogo.proto is located in github.com/gogo/protobuf/gogoproto

This should be fine, since your import is the same.

descriptor.proto is located in either github.com/gogo/protobuf/protobuf or code.google.com/p/protobuf/trunk/src/

Its import is google/protobuf/descriptor.proto so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

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msg.Foo = proto.String("hello") // set field
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Consider file test.proto, containing

```

package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
  optional int32 type = 2 [default=77];
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  optional group OptionalGroup = 4 {
    required string RequiredField = 5;
  }
}

```

To create and play with a Test object from the example package,

```

package main

import (
  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
)

func main() {
  test := &example.Test {
    Label: proto.String("hello"),
    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
      RequiredField: proto.String("good bye"),
    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
    log.Fatal("marshaling error: ", err)
  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
  if err != nil {
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  // Now test and newTest contain the same data.
  if test.GetLabel() != newTest.GetLabel() {
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  }
  // etc.
}

```

gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

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- ```
msg.Foo = proto.String("hello") // set field
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- Extensions are given descriptor names that start with `E_`, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. `HasExtension`, `ClearExtension`, `GetExtension` and `SetExtension` are functions for manipulating extensions.
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- `Marshal` and `Unmarshal` are functions to encode and decode the wire format.

Consider file `test.proto`, containing

```
package example;

enum FOO { X = 17; };

message Test {
 required string label = 1;
 optional int32 type = 2 [default=77];
 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

To create and play with a `Test` object from the example package,

```
package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
```

```

Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
},
}
data, err := proto.Marshal(test)
if err != nil {
 log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{ }
err = proto.Unmarshal(data, newTest)
if err != nil {
 log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
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=====

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```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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Extensions for Protocol Buffers to create more go like structures.

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<http://github.com/gogo/protobuf/gogoproto>

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

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Its import is [google/protobuf/descriptor.proto](http://google/protobuf/descriptor.proto) so it might need some help.

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protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
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```
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- Constants are defined to hold the default values of all fields that have them. They have the form Default\_StructName\_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
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```

 required string RequiredField = 5;
}
}

```

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 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
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 }
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```

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 "github.com/gogo/protobuf/proto"
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 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
 err = proto.Unmarshal(data, newTest)
```

```

if err != nil {
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// Now test and newTest contain the same data.
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 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

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package main
```

```
import (
 "log"
```

```

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msg.Foo = proto.String("hello") // set field
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message Test {
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 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}

```

To create and play with a Test object from the example package,

```

package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
 err = proto.Unmarshal(data, newTest)
 if err != nil {
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```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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- Grab the code from the repository and install the proto package.

The simplest way is to run

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The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

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`gogo.proto` is located in `github.com/gogo/protobuf/gogoproto`  
This should be fine, since your import is the same.  
`descriptor.proto` is located in either `github.com/gogo/protobuf/protobuf` or `code.google.com/p/protobuf/trunk/src/`  
Its import is `google/protobuf/descriptor.proto` so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

```
=====
```

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for `.proto` files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable `v`:

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- There are no methods on `v` to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset.

The getters work even if the receiver is a nil message.

- The zero value for a struct is its correct initialization state.

All desired fields must be set before marshaling.

- A `Reset()` method will restore a `protobuf` struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field `int32 f` becomes `F *int32`.
- Repeated fields are slices.

- Helper functions are available to aid the setting of fields.

Helpers for getting values are superseded by the

`GetFoo` methods and their use is deprecated.

```
msg.Foo = proto.String("hello") // set field
```

- Constants are defined to hold the default values of all fields that

have them. They have the form `Default_StructName_FieldName`.

Because the getter methods handle defaulted values,

direct use of these constants should be rare.

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Consider file `test.proto`, containing

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enum FOO { X = 17; };

message Test {
 required string label = 1;
 optional int32 type = 2 [default=77];
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 optional group OptionalGroup = 4 {
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 }
}
```

To create and play with a `Test` object from the example package,

```
package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
```

```

 RequiredField: proto.String("good bye"),
 },
}
data, err := proto.Marshal(test)
if err != nil {
 log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
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```
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=====

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To compile the protocol buffer definition, run protoc with the --gogo\_out parameter set to the directory you want to output the Go code to.

```
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```

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

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gogo.proto is located in [github.com/gogo/protobuf/gogoprotobuf](http://github.com/gogo/protobuf/gogoprotobuf)  
This should be fine, since your import is the same.  
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or [code.google.com/p/protobuf/trunk/src/](http://code.google.com/p/protobuf/trunk/src/)  
Its import is [google/protobuf/descriptor.proto](http://google/protobuf/descriptor.proto) so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

```
=====
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The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface

for a protocol buffer variable v:

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- There are getters that return a field's value if set, and return the field's default value if unset. The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
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- Constants are defined to hold the default values of all fields that have them. They have the form Default\_StructName\_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
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Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

message Test {
 required string label = 1;
 optional int32 type = 2 [default=77];
 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
```

```
}
}
```

To create and play with a Test object from the example package,

```
package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
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func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{ }
 err = proto.Unmarshal(data, newTest)
 if err != nil {
 log.Fatal("unmarshaling error: ", err)
 }
 // Now test and newTest contain the same data.
 if test.GetLabel() != newTest.GetLabel() {
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 }
 // etc.
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### gRPC Support

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```
protoc --gogo_out=plugins=grpc:. *.proto
```

---

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 required string RequiredField = 5;
 }
}
```

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```
package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
 err = proto.Unmarshal(data, newTest)
 if err != nil {
```

```

log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

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```
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=====

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This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers.  
See the note at the bottom of this file for details.

There are no insertion points in the plugin.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf  
see <http://github.com/gogo/protobuf/gogoprotoc/doc.go>

## ## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it.  
First you must compile the protocol buffer definitions and then import  
them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo\_out  
parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
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The generated files will be suffixed .pb.go. See the Test code below  
for an example using such a file.

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Its import is [google/protobuf/descriptor.proto](http://google/protobuf/descriptor.proto) so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

The proto package converts data structures to and from the  
wire format of protocol buffers. It works in concert with the  
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- The zero value for a struct is its correct initialization state.  
All desired fields must be set before marshaling.

- A Reset() method will restore a protobuf struct to its zero state.
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To create and play with a Test object from the example package,

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package main

import (
 "log"
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```

"github.com/gogo/protobuf/proto"
"path/to/example"
)

func main() {
test := &example.Test {
Label: proto.String("hello"),
Type: proto.Int32(17),
Optionalgroup: &example.Test_OptionalGroup {
RequiredField: proto.String("good bye"),
},
}
data, err := proto.Marshal(test)
if err != nil {
log.Fatal("marshaling error: ", err)
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err = proto.Unmarshal(data, newTest)
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```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

= Godeps/\_workspace/src/github.com/gogo/protobuf/plugin/populate licensed under: =

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

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```

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 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}

```

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```
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=====

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Its import is [google/protobuf/descriptor.proto](https://code.google.com/p/protobuf/descriptor.proto) so it might need some help.

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```
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Consider file `test.proto`, containing

```
package example;

enum FOO { X = 17; };

message Test {
 required string label = 1;
 optional int32 type = 2 [default=77];
 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

To create and play with a `Test` object from the example package,

```
package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
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)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
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 }
 }
```

```

 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
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=====

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Consider file test.proto, containing

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enum FOO { X = 17; };

message Test {
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 repeated int64 reps = 3;
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 required string RequiredField = 5;
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}
```

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 test := &example.Test {
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 Optionalgroup: &example.Test_OptionalGroup {
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 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
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 newTest := &example.Test{}
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 }
 // Now test and newTest contain the same data.
 if test.GetLabel() != newTest.GetLabel() {
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
 }
 // etc.
}
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=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go\_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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Extensions for Protocol Buffers to create more go like structures.

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<http://github.com/gogo/protobuf/gogoproto>

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

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 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
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 },
 }
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 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
 err = proto.Unmarshal(data, newTest)
 if err != nil {
 log.Fatal("unmarshaling error: ", err)
 }
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```

}
// Now test and newTest contain the same data.
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## ## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it. First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run `protoc` with the `--gogo_out` parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
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The generated files will be suffixed `.pb.go`. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any `gogo.proto` extensions you will need to specify the `proto_path` to include the `descriptor.proto` and `gogo.proto`. `gogo.proto` is located in [github.com/gogo/protobuf/gogoproto](http://github.com/gogo/protobuf/gogoproto). This should be fine, since your import is the same. `descriptor.proto` is located in either [github.com/gogo/protobuf/protobuf](http://github.com/gogo/protobuf/protobuf) or [code.google.com/p/protobuf/trunk/src/](http://code.google.com/p/protobuf/trunk/src/). Its import is `google/protobuf/descriptor.proto` so it might need some help.

```
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```

```
=====
```

The `proto` package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for `.proto` files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable `v`:

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```
package example;

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```

```

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func main() {
test := &example.Test {
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},
}
data, err := proto.Marshal(test)
if err != nil {
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}
newTest := &example.Test{}
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```

=====

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 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

To create and play with a `Test` object from the example package,

```
package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 },
```

```

}
data, err := proto.Marshal(test)
if err != nil {
 log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{}
err = proto.Unmarshal(data, newTest)
if err != nil {
 log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
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```
protoc --go_out=plugins=grpc:. *.proto
```

=====

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See

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The simplest way is to run

```
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The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

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Its import is google/protobuf/descriptor.proto so it might need some help.

```
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```

```
=====
```

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msg.Foo = proto.String("hello") // set field
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 }
}
```

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```
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=====

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 }
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```

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```
package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
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 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
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 data, err := proto.Marshal(test)
 if err != nil {
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 newTest := &example.Test{}
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```
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
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=====

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Consider file `test.proto`, containing

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package example;
```

```
enum FOO { X = 17; };
```

```
message Test {
 required string label = 1;
 optional int32 type = 2 [default=77];
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 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

To create and play with a `Test` object from the example package,

```
package main
```

```
import (
 "log"
```

```
 "github.com/gogo/protobuf/proto"
```

```
 "path/to/example"
```

```

)

func main() {
test := &example.Test {
Label: proto.String("hello"),
Type: proto.Int32(17),
Optionalgroup: &example.Test_OptionalGroup {
RequiredField: proto.String("good bye"),
},
}
data, err := proto.Marshal(test)
if err != nil {
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}
newTest := &example.Test{}
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}
// Now test and newTest contain the same data.
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=====

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This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers. See the note at the bottom of this file for details.

There are no insertion points in the plugin.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf see <http://github.com/gogo/protobuf/gogoproto/doc.go>

```
Using protocol buffers with Go
```

Once the software is installed, there are two steps to using it. First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo\_out parameter set to the directory you want to output the Go code to.

```
protoc --gogo_out=. *.proto
```

The generated files will be suffixed .pb.go. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto\_path to include the descriptor.proto and gogo.proto.

gogo.proto is located in [github.com/gogo/protobuf/gogoproto](http://github.com/gogo/protobuf/gogoproto)

This should be fine, since your import is the same.

descriptor.proto is located in either [github.com/gogo/protobuf/protobuf](http://github.com/gogo/protobuf/protobuf) or [code.google.com/p/protobuf/trunk/src/](http://code.google.com/p/protobuf/trunk/src/)

Its import is google/protobuf/descriptor.proto so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for .proto files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

- Names are turned from camel\_case to CamelCase for export.
- There are no methods on v to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset. The getters work even if the receiver is a nil message.
- The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F \*int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields. Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.  
msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default\_StructName\_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E\_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };
```

```

message Test {
 required string label = 1;
 optional int32 type = 2 [default=77];
 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}

```

To create and play with a Test object from the example package,

```

package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{}
 err = proto.Unmarshal(data, newTest)
 if err != nil {
 log.Fatal("unmarshaling error: ", err)
 }
 // Now test and newTest contain the same data.
 if test.GetLabel() != newTest.GetLabel() {
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
 }
 // etc.
}

```

gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go\_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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Extensions for Protocol Buffers to create more go like structures.

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<http://github.com/gogo/protobuf/gogoproto>

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

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

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

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see <https://developers.google.com/protocol-buffers/>

### ## Installation ##

To use this software, you must:

- Install the standard C++ implementation of protocol buffers from <https://developers.google.com/protocol-buffers/>
- Of course, install the Go compiler and tools from <https://golang.org/>

See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at <https://golang.org/doc/install/gccgo>

- Grab the code from the repository and install the proto package.

The simplest way is to run

```
go get -u github.com/golang/protobuf/{proto,protoc-gen-go}
```

The compiler plugin, protoc-gen-go, will be installed in \$GOBIN, defaulting to \$GOPATH/bin. It must be in your \$PATH for the protocol compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

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There are no insertion points in the plugin.

GoGoProtobuf provides extensions for protocol buffers and GoProtobuf see <http://github.com/gogo/protobuf/gogoprotoc/doc.go>

### ## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it.

First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the --gogo\_out parameter set to the directory you want to output the Go code to.

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The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

If you are using any gogo.proto extensions you will need to specify the proto\_path to include the descriptor.proto and gogo.proto. gogo.proto is located in [github.com/gogo/protobuf/gogoprototo](https://github.com/gogo/protobuf/gogoprototo). This should be fine, since your import is the same. descriptor.proto is located in either [github.com/gogo/protobuf/protobuf](https://github.com/gogo/protobuf/protobuf) or [code.google.com/p/protobuf/trunk/src/](https://code.google.com/p/protobuf/trunk/src/). Its import is google/protobuf/descriptor.proto so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
```

=====

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A summary of the properties of the protocol buffer interface for a protocol buffer variable v:

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- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F \*int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields. Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.  
msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default\_StructName\_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.

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- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E\_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
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enum FOO { X = 17; };

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 required string label = 1;
 optional int32 type = 2 [default=77];
 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}
```

To create and play with a Test object from the example package,

```
package main

import (
 "log"

 "github.com/gogo/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
}
```

```

data, err := proto.Marshal(test)
if err != nil {
 log.Fatal("marshaling error: ", err)
}
newTest := &example.Test{ }
err = proto.Unmarshal(data, newTest)
if err != nil {
 log.Fatal("unmarshaling error: ", err)
}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
}
// etc.
}

```

## gRPC Support

=====

If a proto file specifies RPC services, protoc-gen-go can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the `plugins` parameter to protoc-gen-go; the usual way is to insert it into the --go\_out argument to protoc:

```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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=====

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

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

This package and the code it generates requires at least Go 1.4.

This software implements Go bindings for protocol buffers. For information about protocol buffers themselves, see <https://developers.google.com/protocol-buffers/>

## Installation ##

To use this software, you must:

- Install the standard C++ implementation of protocol buffers from <https://developers.google.com/protocol-buffers/>
- Of course, install the Go compiler and tools from <https://golang.org/>

See

<https://golang.org/doc/install>

for details or, if you are using gccgo, follow the instructions at

<https://golang.org/doc/install/gccgo>

- Grab the code from the repository and install the proto package.

The simplest way is to run `go get -u github.com/golang/protobuf/{proto,protoc-gen-go}`.`

The compiler plugin, `protoc-gen-go`, will be installed in `$GOBIN`, defaulting to `$GOPATH/bin`. It must be in your `$PATH` for the protocol

compiler, protoc, to find it.

This software has two parts: a 'protocol compiler plugin' that generates Go source files that, once compiled, can access and manage protocol buffers; and a library that implements run-time support for encoding (marshaling), decoding (unmarshaling), and accessing protocol buffers.

There is support for gRPC in Go using protocol buffers.  
See the note at the bottom of this file for details.

There are no insertion points in the plugin.

### ## Using protocol buffers with Go ##

Once the software is installed, there are two steps to using it.  
First you must compile the protocol buffer definitions and then import them, with the support library, into your program.

To compile the protocol buffer definition, run protoc with the `--go_out` parameter set to the directory you want to output the Go code to.

```
protoc --go_out=. *.proto
```

The generated files will be suffixed `.pb.go`. See the Test code below for an example using such a file.

The package comment for the proto library contains text describing the interface provided in Go for protocol buffers. Here is an edited version.

```
=====
```

The proto package converts data structures to and from the wire format of protocol buffers. It works in concert with the Go source code generated for `.proto` files by the protocol compiler.

A summary of the properties of the protocol buffer interface for a protocol buffer variable `v`:

- Names are turned from `camel_case` to `CamelCase` for export.
- There are no methods on `v` to set fields; just treat them as structure fields.
- There are getters that return a field's value if set, and return the field's default value if unset.

The getters work even if the receiver is a nil message.

- The zero value for a struct is its correct initialization state. All desired fields must be set before marshaling.
- A Reset() method will restore a protobuf struct to its zero state.
- Non-repeated fields are pointers to the values; nil means unset. That is, optional or required field int32 f becomes F \*int32.
- Repeated fields are slices.
- Helper functions are available to aid the setting of fields. Helpers for getting values are superseded by the GetFoo methods and their use is deprecated.  
msg.Foo = proto.String("hello") // set field
- Constants are defined to hold the default values of all fields that have them. They have the form Default\_StructName\_FieldName. Because the getter methods handle defaulted values, direct use of these constants should be rare.
- Enums are given type names and maps from names to values. Enum values are prefixed with the enum's type name. Enum types have a String method, and a Enum method to assist in message construction.
- Nested groups and enums have type names prefixed with the name of the surrounding message type.
- Extensions are given descriptor names that start with E\_, followed by an underscore-delimited list of the nested messages that contain it (if any) followed by the CamelCased name of the extension field itself. HasExtension, ClearExtension, GetExtension and SetExtension are functions for manipulating extensions.
- Oneof field sets are given a single field in their message, with distinguished wrapper types for each possible field value.
- Marshal and Unmarshal are functions to encode and decode the wire format.

When the .proto file specifies `syntax="proto3"`, there are some differences:

- Non-repeated fields of non-message type are values instead of pointers.
- Getters are only generated for message and oneof fields.
- Enum types do not get an Enum method.

Consider file test.proto, containing

```

``proto
package example;

enum FOO { X = 17; };

message Test {
 required string label = 1;
 optional int32 type = 2 [default=77];
 repeated int64 reps = 3;
 optional group OptionalGroup = 4 {
 required string RequiredField = 5;
 }
}

```

```
}
...

```

To create and play with a Test object from the example package,

```
...go
package main

import (
 "log"

 "github.com/golang/protobuf/proto"
 "path/to/example"
)

func main() {
 test := &example.Test {
 Label: proto.String("hello"),
 Type: proto.Int32(17),
 Reps: []int64{1, 2, 3},
 Optionalgroup: &example.Test_OptionalGroup {
 RequiredField: proto.String("good bye"),
 },
 }
 data, err := proto.Marshal(test)
 if err != nil {
 log.Fatal("marshaling error: ", err)
 }
 newTest := &example.Test{ }
 err = proto.Unmarshal(data, newTest)
 if err != nil {
 log.Fatal("unmarshaling error: ", err)
 }
 // Now test and newTest contain the same data.
 if test.GetLabel() != newTest.GetLabel() {
 log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
 }
 // etc.
}
...

Parameters ##

```

To pass extra parameters to the plugin, use a comma-separated parameter list separated from the output directory by a colon:

```
protoc --go_out=plugins=grpc,import_path=mypackage:. *.proto
```

- ``import_prefix=xxx`` - a prefix that is added onto the beginning of all imports. Useful for things like generating protos in a subdirectory, or regenerating vendored protobufs in-place.
- ``import_path=foo/bar`` - used as the package if no input files declare ``go_package``. If it contains slashes, everything up to the rightmost slash is ignored.
- ``plugins=plugin1+plugin2`` - specifies the list of sub-plugins to load. The only plugin in this repo is ``grpc``.
- ``Mfoo/bar.proto=quux/shme`` - declares that `foo/bar.proto` is associated with Go package `quux/shme`. This is subject to the `import_prefix` parameter.

## gRPC Support ##

If a proto file specifies RPC services, `protoc-gen-go` can be instructed to generate code compatible with gRPC (<http://www.grpc.io/>). To do this, pass the ``plugins`` parameter to `protoc-gen-go`; the usual way is to insert it into the `--go_out` argument to `protoc`:

```
protoc --go_out=plugins=grpc:. *.proto
```

=====

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Gocheck - A rich testing framework for Go

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

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

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---

description: Learn about the permission levels available in Docker Trusted Registry.

keywords: docker, registry, security, permissions

title: Permission levels in DTR

---

Docker Trusted Registry allows you to define fine-grain permissions over image repositories.

### ## Administrator users

Users are shared across Docker Datacenter. When you create a new user in Docker Universal Control Plane, that user becomes available in DTR and vice versa. When you create an administrator user in DTR, that user is a Docker Datacenter administrator, with permissions to:

- \* Manage users across Docker Datacenter,
- \* Manage DTR repositories and settings,
- \* Manage the whole UCP cluster.

### ## Team permission levels

Teams allow you to define the permissions a set of user has for a set of repositories. Three permission levels are available:

|                      |      |            |        |  |
|----------------------|------|------------|--------|--|
| Repository operation | read | read-write | admin  |  |
| :-----               | :--- | :-----     | :----- |  |
| View/ browse         | x    | x          | x      |  |

|                       |   |   |   |  |
|-----------------------|---|---|---|--|
| Pull                  | x | x | x |  |
| Push                  |   | x | x |  |
| Delete tags           |   | x | x |  |
| Edit description      |   |   | x |  |
| Set public or private |   |   | x |  |
| Manage user access    |   |   | x |  |
| Delete repository     |   |   |   |  |

Team permissions are additive. When a user is a member of multiple teams, they have the highest permission level defined by those teams.

## ## Overall permissions

Here's an overview of the permission levels available in DTR:

- \* Anonymous users: Can search and pull public repositories.
- \* Users: Can search and pull public repos, and create and manage their own repositories.
- \* Team member: Everything a user can do, plus the permissions granted by the teams the user is member of.
- \* Team admin: Everything a team member can do, and can also add members to the team.
- \* Organization admin: Everything a team admin can do, can create new teams, and add members to the organization.
- \* DDC admin: Can manage anything across UCP and DTR.

## ## Where to go next

- \* [Authentication and authorization](index.md)

---

title: License your installation

description: Learn how to license your Docker Trusted Registry installation.

keywords: docker, dtr, install, license

---

By default, you don't need to license your Docker Trusted Registry. When installing DTR, it automatically starts using the same license file used on your Docker Universal Control Plane cluster.

However, there are some situations when you have to manually license your DTR installation:

- \* When upgrading to a new major version,
- \* When your current license expires.

## ## Download your license

Go to [Docker Store](https://store.docker.com/bundles/docker-datacenter) and download your license.



### ## License your installation

Once you've downloaded the license file, you can apply it to your DTR installation. Navigate to the **DTR web UI**, and then go to the **Settings page**.



Click the **Apply new license** button, and upload your new license file.

### ## Where to go next

\* [Use your own TLS certificates](use-your-own-tls-certificates.md)

---

description: Learn about the permission levels available in Docker Trusted Registry.

keywords: docker, registry, security, permissions

redirect\_from:

- /docker-trusted-registry/user-management/permission-levels/

title: Permission levels

---

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|----------------------|------|------------|-------|
| View/ browse         | x    | x          | x     |
| Pull                 | x    | x          | x     |

|                       |  |  |   |  |   |  |
|-----------------------|--|--|---|--|---|--|
| Push                  |  |  | x |  | x |  |
| Delete tags           |  |  | x |  | x |  |
| Edit description      |  |  |   |  | x |  |
| Set public or private |  |  |   |  | x |  |
| Manage user access    |  |  |   |  | x |  |
| Delete repository     |  |  |   |  |   |  |

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description: Learn how to license your Docker Trusted Registry installation.

keywords: docker, dtr, install, license

redirect\_from:

- /docker-trusted-registry/license/

- /docker-trusted-registry/install/license

title: License Docker Trusted Registry

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### ## Where to go next

- \* [Install DTR](index.md)
- \* [Install DTR offline](install-dtr-offline.md)

---

description: Learn about the permission levels available in Docker Trusted Registry.

keywords: docker, registry, security, permissions

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- \* Organization admin: Everything a team admin can do, can create new teams, and add members to the organization.
- \* DDC admin: Can manage anything across UCP and DTR.

## ## Where to go next

- \* [Authentication and authorization](index.md)

---

description: Learn how to license your Docker Trusted Registry installation.

keywords: docker, dtr, install, license

title: License Docker Trusted Registry

---

By default, you don't need to license your Docker Trusted Registry. When installing DTR, it automatically starts using the same license file used on your Docker Universal Control Plane cluster.

However, there are some situations when you have to manually license your DTR installation:

- \* When upgrading to a new major version,
- \* When your current license expires.

## ## Download your license

Go to [Docker Store](https://store.docker.com/bundles/docker-datacenter) and download your license.



## ## License your installation

Once you've downloaded the license file, you can apply it to your DTR installation. Navigate to the **DTR web UI**, and then go to the **Settings page**.



Click the **Apply new license** button, and upload your new license file.

## ## Where to go next

- \* [Install DTR](index.md)
- \* [Install DTR offline](install-offline.md)

---

description: Learn about the permission levels available in Docker Universal Control Plane.

keywords: authorization, authentication, users, teams, UCP

title: Permission levels

---

Docker Universal Control Plane has two types of users: administrators and regular users. Administrators can make changes to the UCP cluster, while regular users have permissions that range from no access to full control over volumes, networks, images, and containers.

## ## Administrator users

In Docker UCP, only users with administrator privileges can make changes to cluster settings. This includes:

- \* Managing user and team permissions,
- \* Managing cluster configurations like adding and removing nodes to the cluster.

## ## Default permission levels

Regular users can't change cluster settings, and they are assigned with a default permission level.

The default permission level specify the permission a user has to access or edit resources. You can choose from four permission levels that range from no access to full control over the resources.

| Default permission level | Description

|                      |                                                                                                                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      |                                                                                                                                                                                                              |
| :----- :-----        |                                                                                                                                                                                                              |
|                      |                                                                                                                                                                                                              |
| `No Access`          | The user can't view any resource, like volumes, networks, images, or containers.                                                                                                                             |
|                      |                                                                                                                                                                                                              |
| `View Only`          | The user can view volumes, networks and images, but can't create any containers.                                                                                                                             |
|                      |                                                                                                                                                                                                              |
| `Restricted Control` | The user can view and edit volumes, networks, and images. They can create containers, but can't see other users containers, run `docker exec`, or run containers that require privileged access to the host. |
| `Full Control`       | The user can view and edit volumes, networks, and images, They can create containers without any restriction, but can't see other users containers.                                                          |

When a user only has a default permission assigned, only them and admin users can see the containers they deploy in the cluster.

**\*\*NOTE\*\***: Full-control users can utilize host-mounted volumes, which can potentially gain access to sensitive material on the cluster. We recommend giving full-control permissions to users you would trust with admin-level access.

### ## Team permission levels

Teams and labels give the administrator fine-grained control over permissions. Each team can have multiple labels. Each label has a key of `com.docker.ucp.access.label`. The label is then applied to the containers, services, networks, secrets and volumes. Labels are not currently available for nodes and images. DTR has its own permissions.

There are four permission levels:

| Team permission level | Description                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| :----- :-----         |                                                                                                                                                      |
|                       |                                                                                                                                                      |
| `No Access`           | The user can't view containers with this label.                                                                                                      |
|                       |                                                                                                                                                      |
| `View Only`           | The user can view but can't create containers with this label.                                                                                       |
|                       |                                                                                                                                                      |
| `Restricted Control`  | The user can view and create containers with this label. The user can't run `docker exec`, or containers that require privileged access to the host. |
| `Full Control`        | The user can view and create containers with this label, without any restriction.                                                                    |

### ## Where to go next

- \* [Create and manage users](create-and-manage-users.md)
- \* [Create and manage teams](create-and-manage-teams.md)

---

description: Learn how to license your Docker Universal Control Plane installation.

keywords: Universal Control Plane, UCP, install, license

title: License UCP

---

After installing Docker Universal Control Plane, you need to license your installation. Here's how to do it.

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## ## Where to go next

\* [Install UCP](index.md)

\* [Install UCP offline](install-offline.md)

---

description: Learn about the permission levels available in Docker Universal Control Plane.

keywords: authorization, authentication, users, teams, UCP

redirect\_from:

- /ucp/user-management/permission-levels/

title: Permission levels

---

Docker Universal Control Plane has two types of users: administrators and regular users. Administrators can make changes to the UCP cluster, while regular users have permissions that range from no access to full control over volumes, networks, images, and containers.

## ## Administrator users

In Docker UCP, only users with administrator privileges can make changes to cluster settings. This includes:

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Regular users can't change cluster settings, and they are assigned with a default permission level.

The default permission level specify the permission a user has to access or edit resources. You can choose from four permission levels that range from no access to full control over the resources.

| Default permission level | Description                                                                                                                                                                                                  |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| `No Access`              | The user can't view any resource, like volumes, networks, images, or containers.                                                                                                                             |
| `View Only`              | The user can view volumes, networks and images, but can't create any containers.                                                                                                                             |
| `Restricted Control`     | The user can view and edit volumes, networks, and images. They can create containers, but can't see other users containers, run `docker exec`, or run containers that require privileged access to the host. |
| `Full Control`           | The user can view and edit volumes, networks, and images, They can create containers without any restriction, but can't see other users containers.                                                          |

When a user only has a default permission assigned, only them and admin users can see the containers they deploy in the cluster.

**\*\*NOTE\*\***: Full-control users can utilize host-mounted volumes, which can potentially gain access to sensitive material on the cluster. We recommend giving full-control permissions to users you would trust with admin-level access.

### ## Team permission levels

Teams allow you to define fine-grain permissions to containers that have the label `com.docker.ucp.access.label` applied to them.

There are four permission levels:

| Team permission level | Description                                                    |
|-----------------------|----------------------------------------------------------------|
| `No Access`           | The user can't view containers with this label.                |
| `View Only`           | The user can view but can't create containers with this label. |

| `Restricted Control` | The user can view and create containers with this label. The user can't run `docker exec`, or containers that require privileged access to the host. |

| `Full Control` | The user can view and create containers with this label, without any restriction. |

## ## Where to go next

\* [Create and manage users](create-and-manage-users.md)

\* [Create and manage teams](create-and-manage-teams.md)

---

description: Learn how to license your Docker Universal Control Plane installation.

keywords: Universal Control Plane, UCP, install, license

redirect\_from:

- /ucp/installation/license/

title: License UCP

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## ## Where to go next

\* [Install UCP](install-production.md)

\* [Install UCP offline](install-offline.md)

---

description: Learn about the permission levels available in Docker Universal Control Plane.

keywords: authorization, authentication, users, teams, UCP

title: Permission levels

---

Docker Universal Control Plane has two types of users: administrators and regular users. Administrators can make changes to the UCP cluster, while regular users have permissions that range from no access to full control over volumes, networks, images, and containers.

## ## Administrator users

In Docker UCP, only users with administrator privileges can make changes to cluster settings. This includes:

- \* Managing user and team permissions,
- \* Managing cluster configurations like adding and removing nodes to the cluster.

## ## Default permission levels

Regular users can't change cluster settings, and they are assigned with a default permission level.

The default permission level specify the permission a user has to access or edit resources. You can choose from four permission levels that range from no access to full control over the resources.

| Default permission level | Description |
|--------------------------|-------------|
|--------------------------|-------------|

|                      |                                                                                                                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| `No Access`          | The user can't view any resource, like volumes, networks, images, or containers.                                                                                                                             |
| `View Only`          | The user can view volumes, networks and images, but can't create any containers.                                                                                                                             |
| `Restricted Control` | The user can view and edit volumes, networks, and images. They can create containers, but can't see other users containers, run `docker exec`, or run containers that require privileged access to the host. |
| `Full Control`       | The user can view and edit volumes, networks, and images, They can create containers without any restriction, but can't see other users containers.                                                          |

If a user has Restricted Control or Full Control default permissions, they can create resources without labels, and only the user and Admins can see and access the resources. Default permissions also affect ability for a user to access things that can't have labels, images and nodes.

## ## Team permission levels

Teams and labels give the administrator fine-grained control over permissions. Each team can have multiple labels. Each label has a key of `com.docker.ucp.access.label`. The label is then applied to the containers, services, networks, secrets and volumes. Labels are not currently available for nodes and images. DTR has its own permissions.

There are four permission levels:

| Team permission level | Description |
|-----------------------|-------------|
|-----------------------|-------------|

|                      |                                                                                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| `No Access`          | The user can't view containers with this label.                                                                                                      |
| `View Only`          | The user can view but can't create containers with this label.                                                                                       |
| `Restricted Control` | The user can view and create containers with this label. The user can't run `docker exec`, or containers that require privileged access to the host. |
| `Full Control`       | The user can view and create containers with this label, without any restriction.                                                                    |

### ## Where to go next

- \* [Create and manage users](create-and-manage-users.md)
- \* [Create and manage teams](create-and-manage-teams.md)
- \* [Docker Reference Architecture: Securing Docker Datacenter and Security Best Practices](https://success.docker.com/KBase/Docker\_Reference\_Architecture%3A\_Securing\_Docker\_Datacenter\_and\_Security\_Best\_Practices)

description: Learn how to license your Docker Universal Control Plane installation.

keywords: Universal Control Plane, UCP, install, license

title: License your installation

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## Where to go next

\* [Install UCP](../install/index.md)

\* [Install UCP offline](../install/install-offline.md)

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# 1.141 docker-compose 1.10.0

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```
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```

<signature of Ty Coon>, 1 April 1989

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## 1.145 elliptic 6.4.1

## 1.146 escape-string-regexp 1.0.5

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## 1.148 et-xmlfile 1.0.1

## 1.149 evp\_bytestokey 1.0.3

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@c Local Variables:

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

@c End:

@c The GNU Lesser General Public License.

@center Version 2.1, February 1999

@c This file is intended to be included within another document,

@c hence no sectioning command or @node.

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@subheading END OF TERMS AND CONDITIONS

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## 1.170 gnutls 3.5.17

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Constant-time SSSE3 AES core implementation.
version 0.1

By Mike Hamburg (Stanford University), 2009
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> Check if a string has [ANSI escape codes](http://en.wikipedia.org/wiki/ANSI\_escape\_code)

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---

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

---

## Usage

```
```js
```

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

```
hasAnsi('\u001b[4mcake\u001b[0m');
```

```
//=> true
```

```
hasAnsi('cake');
```

```
//=> false
```

Related

- [has-ansi-cli](https://github.com/sindresorhus/has-ansi-cli) - CLI for this module
- [strip-ansi](https://github.com/sindresorhus/strip-ansi) - Strip ANSI escape codes
- [ansi-regex](https://github.com/sindresorhus/ansi-regex) - Regular expression for matching ANSI escape codes
- [chalk](https://github.com/sindresorhus/chalk) - Terminal string styling done right

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1.176 hash-base 3.0.4

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1.177 hash.js 1.1.5

1.178 hiredis 0.2.0

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1.179 hmac-drbg 1.0.1

1.180 home-or-tmp 2.0.0

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1.181 hyperlink 18.0.0

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1.183 idna 2.5

1.184 idna 2.7

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1.185 ifupdown 0.8.16

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Fernando Perez began IPython in 2001 based on code from Janko Hauser <jhauser-AT-zscout.de> and Nathaniel Gray <n8gray-AT-caltech.edu>. Fernando is still the project lead.

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1.193 ipython-genutils 0.2.0

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1.195 is-buffer 1.1.6

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1.197 is-equal-shallow 0.1.3

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1.200 is-finite 1.0.2

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1.204 is-posix-bracket 0.1.1

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1.205 is-primitive 2.0.0

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1.207 isobject 2.1.0

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1.208 isodate 0.6.0

1.209 jdcal 1.4

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1.211 jquery 3.1.1

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1.212 js-cookie 2.1.4

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1.213 js-tokens 3.0.2

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1.218 jsonschema 2.5.1

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1.219 kind-of 3.2.2

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1.221 kombu 4.2.1

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1.224 libevent 2.1.8-stable

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1.225 libfastjson 0.99.4

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1.232 libxml2 2.9.7

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1.233 libxslt 1.1.32

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content="DocBook XSL Stylesheets V1.37"></head><body bgcolor="white" text="black" link="#0000FF"
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1.234 libyaml 0.1.7

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1.235 Linux Kernel - 4.19.14 4.19.14

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ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

Thanks go to the following people for patches and contributions:

Michael Hunold <m.hunold@gmx.de>
for the initial saa7146 driver and its recent overhaul

Christian Theiss
for his work on the initial Linux DVB driver

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Ralph Metzler <rjkm@metzlerbros.de>
for their continuing work on the DVB driver

Michael Holz <kju@debian.org>
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacomp.it>
for CyberLogin for Linux which allows logging onto EON
(in case you are wondering where CyberLogin is, EON changed its login
procedure and CyberLogin is no longer used.)

Martin Schaller <martin@smurf.franken.de>
for patching the cable card decoder driver

Klaus Schmidinger <Klaus.Schmidinger@cadsoft.de>
for various fixes regarding tuning, OSD and CI stuff and his work on VDR

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Wolfram Joost <dbox2@frokaschwei.de>
...and all the other dbox2 people
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Oliver Endriss <o.endriss@gmx.de>
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Davor Emard <emard@softhome.net>
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for his work on calculating and checking the crc's for the
TechnoTrend/Hauppauge DEC driver firmware

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Andreas 'randy' Weinberger
for the support of the Fujitsu-Siemens Activy budget DVB-S

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for the IR code for the ttusb-dec driver

Wilson Michaels <wilsonmichaels@earthlink.net>
for the lgt330x frontend driver, and various bugfixes

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for maintaining v4l/dvb inter-tree dependencies

Taylor Jacob <rtjacob@earthlink.net>
for the nxt2002 frontend driver

Jean-Francois Thibert <jeanfrancois@sagetv.com>
for the nxt2004 frontend driver

Kirk Lapray <kirk.lapray@gmail.com>
for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
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Version 1.0

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Radio card (ITT sound processor)

bigfoot <bigfoot@net-way.net>
Ragnar Hojland Espinosa <ragnar@macula.net>
ConferenceTV card

+ many more (please mail me if you are missing in this list and would like to be mentioned)

/* 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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```

/* 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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*

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- *
- * M. Welsh, 6 July 1996
- *
- *
- */

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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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(If you think you should be in this list, but you are not, drop a
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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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```
/* 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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```
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```

```
static inline int license_is_gpl_compatible(const char *license)
{
return (strcmp(license, "GPL") == 0
|| strcmp(license, "GPL v2") == 0
|| strcmp(license, "GPL and additional rights") == 0
|| strcmp(license, "Dual BSD/GPL") == 0
|| strcmp(license, "Dual MIT/GPL") == 0
|| strcmp(license, "Dual MPL/GPL") == 0);
}
```

#endif

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.. note::

This documentation is outdated. There are several other DVB contributors that aren't listed below.

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(in case you are wondering where CyberLogin is, EON changed its login procedure and CyberLogin is no longer used.)

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<one line to give the program's name and a brief idea of what it does.>

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Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
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`Gnomovision' (which makes passes at compilers) written by James Hacker.
```

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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```

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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
program `Gnomovision' (a program to direct compilers to make passes
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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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.

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- Andrew de Quincey <adq_dvb@lidskialf.net>
- for the tda1004x frontend driver, and various bugfixes

- Peter Schildmann <peter.schildmann@web.de>

- for the driver for the Technisat SkyStar2 PCI DVB card

- Vadim Catana <skystar@moldova.cc>,
Roberto Ragusa <r.ragusa@libero.it> and
Augusto Cardoso <augusto@carhil.net>

- for all the work for the FlexCopII chipset by B2C2,Inc.

- Davor Emard <emard@softhome.net>

- for his work on the budget drivers, the demux code,
the module unloading problems, ...

- Hans-Frieder Vogt <hfvogt@arcor.de>

- for his work on calculating and checking the crc's for the
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- Michael Dreher <michael@5dot1.de> and
Andreas 'randy' Weinberger

- for the support of the Fujitsu-Siemens Activy budget DVB-S

- Kenneth Aafly <ke-aa@frisurf.no>

- for adding support for Typhoon DVB-S budget card

- Ernst Peinlich <e.peinlich@inode.at>

- for tuning/DiSEqC support for the DEC 3000-s

- Peter Beutner <p.beutner@gmx.net>

- for the IR code for the ttusb-dec driver

- Wilson Michaels <wilsonmichaels@earthlink.net>

- for the lgdt330x frontend driver, and various bugfixes

- Michael Krufky <mkrufky@linuxtv.org>

- for maintaining v4l/dvb inter-tree dependencies

- Taylor Jacob <rtjacob@earthlink.net>

- for the nxt2002 frontend driver

- Jean-Francois Thibert <jeanfrancois@sagetv.com>

- for the nxt2004 frontend driver

- Kirk Lapray <kirk.lapray@gmail.com>

- for the or51211 and or51132 frontend drivers, and
for merging the nxt2002 and nxt2004 modules into a
single nxt200x frontend driver.

(If you think you should be in this list, but you are not, drop a
line to the DVB mailing list)

.. SPDX-License-Identifier: GPL-2.0

Linux kernel licensing rules

=====

The Linux Kernel is provided under the terms of the GNU General Public License version 2 only (GPL-2.0), as provided in LICENSES/preferred/GPL-2.0, with an explicit syscall exception described in LICENSES/exceptions/Linux-syscall-note, as described in the COPYING file.

This documentation file provides a description of how each source file should be annotated to make its license clear and unambiguous.

It doesn't replace the Kernel's license.

The license described in the COPYING file applies to the kernel source as a whole, though individual source files can have a different license which is required to be compatible with the GPL-2.0::

GPL-1.0+ : GNU General Public License v1.0 or later
GPL-2.0+ : GNU General Public License v2.0 or later
LGPL-2.0 : GNU Library General Public License v2 only
LGPL-2.0+ : GNU Library General Public License v2 or later
LGPL-2.1 : GNU Lesser General Public License v2.1 only
LGPL-2.1+ : GNU Lesser General Public License v2.1 or later

Aside from that, individual files can be provided under a dual license, e.g. one of the compatible GPL variants and alternatively under a permissive license like BSD, MIT etc.

The User-space API (UAPI) header files, which describe the interface of user-space programs to the kernel are a special case. According to the note in the kernel COPYING file, the syscall interface is a clear boundary, which does not extend the GPL requirements to any software which uses it to communicate with the kernel. Because the UAPI headers must be includable into any source files which create an executable running on the Linux

kernel, the exception must be documented by a special license expression.

The common way of expressing the license of a source file is to add the matching boilerplate text into the top comment of the file. Due to formatting, typos etc. these "boilerplates" are hard to validate for tools which are used in the context of license compliance.

An alternative to boilerplate text is the use of Software Package Data Exchange (SPDX) license identifiers in each source file. SPDX license identifiers are machine parsable and precise shorthands for the license under which the content of the file is contributed. SPDX license identifiers are managed by the SPDX Workgroup at the Linux Foundation and have been agreed on by partners throughout the industry, tool vendors, and legal teams. For further information see <https://spdx.org/>

The Linux kernel requires the precise SPDX identifier in all source files. The valid identifiers used in the kernel are explained in the section ``License identifiers`_` and have been retrieved from the official SPDX license list at <https://spdx.org/licenses/> along with the license texts.

License identifier syntax

1. Placement:

The SPDX license identifier in kernel files shall be added at the first possible line in a file which can contain a comment. For the majority or files this is the first line, except for scripts which require the `#!/PATH_TO_INTERPRETER` in the first line. For those scripts the SPDX identifier goes into the second line.

|

2. Style:

The SPDX license identifier is added in form of a comment. The comment style depends on the file type::

```
C source: // SPDX-License-Identifier: <SPDX License Expression>
C header: /* SPDX-License-Identifier: <SPDX License Expression> */
ASM: /* SPDX-License-Identifier: <SPDX License Expression> */
scripts: # SPDX-License-Identifier: <SPDX License Expression>
.rst: .. SPDX-License-Identifier: <SPDX License Expression>
.dts{i}: // SPDX-License-Identifier: <SPDX License Expression>
```

If a specific tool cannot handle the standard comment style, then the appropriate comment mechanism which the tool accepts shall be used. This is the reason for having the `"/* */"` style comment in C header

files. There was build breakage observed with generated .lds files where 'ld' failed to parse the C++ comment. This has been fixed by now, but there are still older assembler tools which cannot handle C++ style comments.

|

3. Syntax:

A <SPDX License Expression> is either an SPDX short form license identifier found on the SPDX License List, or the combination of two SPDX short form license identifiers separated by "WITH" when a license exception applies. When multiple licenses apply, an expression consists of keywords "AND", "OR" separating sub-expressions and surrounded by "(" , ")" .

License identifiers for licenses like [L]GPL with the 'or later' option are constructed by using a "+" for indicating the 'or later' option.::

```
// SPDX-License-Identifier: GPL-2.0+
// SPDX-License-Identifier: LGPL-2.1+
```

WITH should be used when there is a modifier to a license needed. For example, the linux kernel UAPI files use the expression::

```
// SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note
// SPDX-License-Identifier: GPL-2.0+ WITH Linux-syscall-note
```

Other examples using WITH exceptions found in the kernel are::

```
// SPDX-License-Identifier: GPL-2.0 WITH mif-exception
// SPDX-License-Identifier: GPL-2.0+ WITH GCC-exception-2.0
```

Exceptions can only be used with particular License identifiers. The valid License identifiers are listed in the tags of the exception text file. For details see the point `Exceptions`_ in the chapter `License identifiers`_.

OR should be used if the file is dual licensed and only one license is to be selected. For example, some dtsi files are available under dual licenses::

```
// SPDX-License-Identifier: GPL-2.0 OR BSD-3-Clause
```

Examples from the kernel for license expressions in dual licensed files::

```
// SPDX-License-Identifier: GPL-2.0 OR MIT
// SPDX-License-Identifier: GPL-2.0 OR BSD-2-Clause
```

```
// SPDX-License-Identifier: GPL-2.0 OR Apache-2.0
// SPDX-License-Identifier: GPL-2.0 OR MPL-1.1
// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) OR MIT
// SPDX-License-Identifier: GPL-1.0+ OR BSD-3-Clause OR OpenSSL
```

AND should be used if the file has multiple licenses whose terms all apply to use the file. For example, if code is inherited from another project and permission has been given to put it in the kernel, but the original license terms need to remain in effect::

```
// SPDX-License-Identifier: (GPL-2.0 WITH Linux-syscall-note) AND MIT
```

Another other example where both sets of license terms need to be adhered to is::

```
// SPDX-License-Identifier: GPL-1.0+ AND LGPL-2.1+
```

License identifiers

The licenses currently used, as well as the licenses for code added to the kernel, can be broken down into:

1. _`Preferred licenses`:

Whenever possible these licenses should be used as they are known to be fully compatible and widely used. These licenses are available from the directory::

```
LICENSES/preferred/
```

in the kernel source tree.

The files in this directory contain the full license text and _`Metatags`_. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples::

```
LICENSES/preferred/GPL-2.0
```

Contains the GPL version 2 license text and the required metatags::

```
LICENSES/preferred/MIT
```

Contains the MIT license text and the required metatags

_`Metatags`:

The following meta tags must be available in a license file:

- Valid-License-Identifier:

One or more lines which declare which License Identifiers are valid inside the project to reference this particular license text. Usually this is a single valid identifier, but e.g. for licenses with the 'or later' options two identifiers are valid.

- SPDX-URL:

The URL of the SPDX page which contains additional information related to the license.

- Usage-Guidance:

Freeform text for usage advice. The text must include correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax`_ guidelines.

- License-Text:

All text after this tag is treated as the original license text

File format examples::

Valid-License-Identifier: GPL-2.0

Valid-License-Identifier: GPL-2.0+

SPDX-URL: <https://spdx.org/licenses/GPL-2.0.html>

Usage-Guide:

To use this license in source code, put one of the following SPDX tag/value pairs into a comment according to the placement guidelines in the licensing rules documentation.

For 'GNU General Public License (GPL) version 2 only' use:

SPDX-License-Identifier: GPL-2.0

For 'GNU General Public License (GPL) version 2 or any later version' use:

SPDX-License-Identifier: GPL-2.0+

License-Text:

Full license text

::

SPDX-License-Identifier: MIT

SPDX-URL: <https://spdx.org/licenses/MIT.html>

Usage-Guide:

To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement

guidelines in the licensing rules documentation.

SPDX-License-Identifier: MIT

License-Text:

Full license text

|

2. Not recommended licenses:

These licenses should only be used for existing code or for importing code from a different project. These licenses are available from the directory::

LICENSES/other/

in the kernel source tree.

The files in this directory contain the full license text and ``Metatags`_`. The file names are identical to the SPDX license identifier which shall be used for the license in source files.

Examples::

LICENSES/other/ISC

Contains the Internet Systems Consortium license text and the required metatags::

LICENSES/other/ZLib

Contains the ZLIB license text and the required metatags.

Metatags:

The metatag requirements for 'other' licenses are identical to the requirements of the ``Preferred licenses`_`.

File format example::

Valid-License-Identifier: ISC

SPDX-URL: <https://spdx.org/licenses/ISC.html>

Usage-Guide:

Usage of this license in the kernel for new code is discouraged and it should solely be used for importing code from an already existing project.

To use this license in source code, put the following SPDX tag/value pair into a comment according to the placement guidelines in the licensing rules documentation.

SPDX-License-Identifier: ISC

License-Text:

Full license text

|

3. `_`Exceptions``:

Some licenses can be amended with exceptions which grant certain rights which the original license does not. These exceptions are available from the directory::

`LICENSES/exceptions/`

in the kernel source tree. The files in this directory contain the full exception text and the required ``Exception Metatags`` `_``.

Examples::

`LICENSES/exceptions/Linux-syscall-note`

Contains the Linux syscall exception as documented in the COPYING file of the Linux kernel, which is used for UAPI header files.

e.g. `^* SPDX-License-Identifier: GPL-2.0 WITH Linux-syscall-note */::`

`LICENSES/exceptions/GCC-exception-2.0`

Contains the GCC 'linking exception' which allows to link any binary independent of its license against the compiled version of a file marked with this exception. This is required for creating runnable executables from source code which is not compatible with the GPL.

`_`Exception Metatags``:

The following meta tags must be available in an exception file:

- `SPDX-Exception-Identifier`:

One exception identifier which can be used with SPDX license identifiers.

- `SPDX-URL`:

The URL of the SPDX page which contains additional information related to the exception.

- `SPDX-Licenses`:

A comma separated list of SPDX license identifiers for which the exception can be used.

- Usage-Guidance:

Freeform text for usage advice. The text must be followed by correct examples for the SPDX license identifiers as they should be put into source files according to the `License identifier syntax`_ guidelines.

- Exception-Text:

All text after this tag is treated as the original exception text

File format examples::

SPDX-Exception-Identifier: Linux-syscall-note

SPDX-URL: <https://spdx.org/licenses/Linux-syscall-note.html>

SPDX-Licenses: GPL-2.0, GPL-2.0+, GPL-1.0+, LGPL-2.0, LGPL-2.0+, LGPL-2.1, LGPL-2.1+

Usage-Guidance:

This exception is used together with one of the above SPDX-Licenses to mark user-space API (uapi) header files so they can be included into non GPL compliant user-space application code.

To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag:

SPDX-License-Identifier: <SPDX-License> WITH Linux-syscall-note

Exception-Text:

Full exception text

::

SPDX-Exception-Identifier: GCC-exception-2.0

SPDX-URL: <https://spdx.org/licenses/GCC-exception-2.0.html>

SPDX-Licenses: GPL-2.0, GPL-2.0+

Usage-Guidance:

The "GCC Runtime Library exception 2.0" is used together with one of the above SPDX-Licenses for code imported from the GCC runtime library.

To use this exception add it with the keyword WITH to one of the identifiers in the SPDX-Licenses tag:

SPDX-License-Identifier: <SPDX-License> WITH GCC-exception-2.0

Exception-Text:

Full exception text

All SPDX license identifiers and exceptions must have a corresponding file in the LICENSE subdirectories. This is required to allow tool verification (e.g. checkpatch.pl) and to have the licenses ready to read and extract right from the source, which is recommended by various FOSS

organizations, e.g. the `FSFE REUSE initiative <<https://reuse.software/>>`.

```
#ifndef __LICENSE_H
#define __LICENSE_H

static inline int license_is_gpl_compatible(const char *license)
{
    return (strcmp(license, "GPL") == 0
        || strcmp(license, "GPL v2") == 0
        || strcmp(license, "GPL and additional rights") == 0
        || strcmp(license, "Dual BSD/GPL") == 0
        || strcmp(license, "Dual MIT/GPL") == 0
        || strcmp(license, "Dual MPL/GPL") == 0);
}
```

#endif

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Version 2, June 1991

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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Also add information on how to contact you by electronic and paper mail.

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```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate

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Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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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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1.236 lodash 4.17.4

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1.237 logrotate 3.13.0

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1.238 loose-envify 1.3.1

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1.239 lunr 0.7.2

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1.240 lxml 4.2.4

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1.241 md5.js 1.3.4

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1.242 micromatch 2.3.11

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1.243 miller-rabin 4.0.1

1.244 minimalistic-assert 1.0.1

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1.245 minimalistic-crypto-utils 1.0.1

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1.247 minimalist 0.0.8

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1.248 mkdirp 0.5.1

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1.249 moment 2.19.1

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1.250 moment-duration-format 2.2.2

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1.251 mpdecimal 2.4.1 :1

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1.252 ms 2.0.0

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1.253 msgpack 0.5.6

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1.254 ncurses 6.0

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This package is used for testing builds of ncurses.

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

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-- vile: txtmode file-encoding=utf-8

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1.255 ndisc6 1.0.3

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479bb4a7e11a4084e2935c0a576388f92469225

b

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1.258 netlink

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1.259 netns

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1.260 nettle 3.4

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```

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1.261 nginx 1.15.0

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 */
```

1.262 normalize-path 2.1.1

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1.263 ntlm-auth 1.2.0

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1.264 ntp 4.2.8p12

1.264.1 Available under license :

```
/* -*- Mode: Text -*- */

copyright = {
  date = "1992-2017";
  owner = "The University of Delaware and Network Time Foundation";
  eaddr = "http://bugs.ntp.org, bugs@ntp.org";
  type = ntp;
};

long-opts;
config-header = config.h;
environrc;
no-misuse-usage;
version-proc = ntpOptionPrintVersion;

version      = `
eval VERSION=\`sed -e 's/.*;\\[/' -e 's/^\\.*/' < ../sntp/m4/version.m4\`
[ -z "${VERSION}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid
echo $VERSION`;

version-value = "; /* Don't use -v as a shortcut for --version */

/*
* HMS: man pages already have this, and texi pages can use the
* values in sntp/include/version.texi .
*/
// doc-sub = {
//   sub-name = version;
//   sub-text = 's/#VERSION#/<<version>>/g';
// };
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
<head>
<meta http-equiv="content-type" content="text/html; charset=iso-8859-1">
<title>Copyright Notice</title>
<!-- Changed by: Harlan Stenn, 10-Mar-2014 -->
<link href="scripts/style.css" type="text/css" rel="stylesheet">
</head>
<body>
<h3>Copyright Notice</h3>
 "Clone me," says Dolly sheepishly.
<p>Last update:
<!-- #BeginDate format:En2m -->2-Jan-2017 11:58<!-- #EndDate -->
  UTC</p>
```

<br clear="left">

</p>

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<p>The following individuals contributed in part to the Network Time Protocol Distribution Version 4 and are acknowledged as authors of this work.</p>

- Takao Abe <takao_abe@xurb.jp> Clock driver for JY receivers
- Mark Andrews <mark_andrews@isc.org> Leitch atomic clock controller
- Bernd Altmeier <altmeier@atsoft.de> hopf Elektronik serial line and PCI-bus devices
- Viraj Bais <vbais@mailman1.intel.com> and Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5
- Michael Barone <michael,barone@lmco.com> GPSVME fixes
- Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option
- Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.
- Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS clock driver
- Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
- Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in sntp
- Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
- Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
- Steve Clift <clift@ml.csiro.au> OMEGA clock driver
- Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
- Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
- John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
- Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
- Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119

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[Glenn Hollinger](mailto:%20glenn@herald.usask.ca) <glenn@herald.usask.ca> GOES clock driver

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[Jim Jagielski](mailto:%20jagubox.gsfc.nasa.gov) <jim@jagubox.gsfc.nasa.gov> A/UX port

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[Hans Lambermont](mailto:%20Hans.Lambermont@nl.origin-it.com) <Hans.Lambermont@nl.origin-it.com> or H.Lambermont@chello.nl ntp sweep

[Poul-Henning Kamp](mailto:%20phk@FreeBSD.ORG) <phk@FreeBSD.ORG> Oncore driver (Original author)

[Frank Kardel](http://www4.informatik.uni-erlangen.de/%7ekardel) kardel (at) ntp (dot) org PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling

[Johannes Maximilian Kuehn](mailto:kuehn@ntp.org) <kuehn@ntp.org> Rewrote <tt>sntp</tt> to comply with NTPv4 specification, <tt>ntpq saveconfig</tt>

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[Craig Leres](mailto:%20leres@ee.lbl.gov) <leres@ee.lbl.gov> 4.4BSD port, ppslock, Magnavox GPS clock driver

[George Lindholm](mailto:%20lindholm@ucs.ubc.ca) <lindholm@ucs.ubc.ca> SunOS 5.1 port

[Louis A. Mamakos](mailto:%20louie@ni.umd.edu) <louie@ni.umd.edu> MD5-based authentication

[Lars H. Mathiesen](mailto:%20thorinn@diku.dk) <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305

[Danny Mayer](mailto:%20mayer@ntp.org) <mayer@ntp.org> Network I/O, Windows Port, Code Maintenance

[David L. Mills](mailto:%20mills@udel.edu) <mills@udel.edu> Version 4 foundation, precision kernel; clock drivers: 1, 3, 4, 6, 7, 11, 13, 18, 19, 22, 36

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[Rainer Pruy](mailto:Rainer.Pruy@informatik.uni-erlangen.de) <Rainer.Pruy@informatik.uni-erlangen.de> monitoring/trap scripts, statistics file handling

[Dirce Richards](mailto:Dirce.Richards@zk3.dec.com) <dirce@zk3.dec.com> Digital UNIX V4.0 port

[Wilfredo Sßnchez](mailto:Wilfredo.Sanchez@apple.com) <wsanchez@apple.com> added support for NetInfo

[Nick Sayer](mailto:Nick.Sayer@quack.kfu.com) <mrapple@quack.kfu.com> SunOS streams modules

[Jack Sasportas](mailto:Jack.Sasportas@innovativeinternet.com) <jack@innovativeinternet.com> Saved a Lot of space on the stuff in the html/pic/ subdirectory

[Ray Schnitzler](mailto:Ray.Schnitzler@unipress.com) <schnitz@unipress.com> Unixware 1 port

[Michael Shields](mailto:Michael.Shields@tembel.org) <shields@tembel.org> USNO clock driver

[Jeff Steinman](mailto:Jeff.Steinman@pebbles.jpl.nasa.gov) <jss@pebbles.jpl.nasa.gov> Datum PTS clock driver

[Harlan Stenn](mailto:Harlan.Stenn@pfcs.com) <harlan@pfcs.com> GNU automake/autoconfigure makeover, various other bits (see the ChangeLog)

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[Loganaden Velvindron](mailto:Loganaden@velvindron@gmail.com) <loganaden@gmail.com> Sandboxing (libseccomp) support

[Paul A Vixie](mailto:Paul.A.Vixie@vix.com) <vixie@vix.com> TrueTime GPS driver, generic TrueTime clock driver

[Ulrich Windl](mailto:Ulrich.Windl@rz.uni-regensburg.de) <Ulrich.Windl@rz.uni-regensburg.de> corrected and validated HTML documents according to the HTML DTD

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<html>

<head>

<meta http-equiv="content-type" content="text/html; charset=iso-8859-1">

<title>Copyright Notice</title>

<!-- Changed by: Harlan Stenn, 10-Mar-2014 -->

<link href="scripts/style.css" type="text/css" rel="stylesheet">

</head>

<body>

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 "Clone me," says Dolly sheepishly.

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Takao Abe <takao_abe@xurb.jp> Clock driver for JJY receivers

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Viraj Bais <vbais@mailman1.intel.com> and Clayton Kirkwood <kirkwood@striderfm.intel.com> port to WindowsNT 3.5

Michael Barone <michael,barone@lmco.com> GPSVME fixes

Karl Berry <karl@owl.HQ.ileaf.com> syslog to file option

Greg Brackley <greg.brackley@bigfoot.com> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.

Marc Brett <Marc.Brett@westgeo.com> Magnavox GPS

clock driver

- Piete Brooks <Piete.Brooks@cl.cam.ac.uk> MSF clock driver, Trimble PARSE support
- Nelson B Bolyard <nelson@bolyard.me> update and complete broadcast and crypto features in snpt
- Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca> IPv6 support
- Reg Clemens <reg@dwf.com> Oncore driver (Current maintainer)
- Steve Clift <clift@ml.csiro.au> OMEGA clock driver
- Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
- Sven Dietrich <sven_dietrich@trimble.com> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.
- John A. Dundas III <dundas@salt.jpl.nasa.gov> Apple A/UX port
- Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de> Linux port
- Dennis Ferguson <dennis@mrbill.canet.ca> foundation code for NTP Version 2 as specified in RFC-1119
- John Hay <jhay@icomtek.csir.co.za> IPv6 support and testing
- Dave Hart <davehart@davehart.com> General maintenance, Windows port interpolation rewrite
- Claas Hilbrecht <neoclock4x@linum.com> NeoClock4X clock driver
- Glenn Hollinger <glenn@herald.usask.ca> GOES clock driver
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- Jeff Johnson <jbj@chatham.usdesign.com> massive prototyping overhaul
- Hans Lambermont <Hans.Lambermont@nl.origin-it.com> or <H.Lambermont@chello.nl> ntp sweep
- Poul-Henning Kamp <phk@FreeBSD.ORG> Oncore driver (Original author)
- Frank Kardel <kardel (at) ntp (dot) org> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling
- Johannes Maximilian Kuehn <kuehn@ntp.org> Rewrote <tt>snpt</tt> to comply with NTPv4 specification, <tt>ntp saveconfig</tt>
- William L. Jones <jones@hermes.chpc.utexas.edu> RS/6000 AIX modifications, HPUX modifications
- Dave Katz <dkatz@cisco.com> RS/6000 AIX port
- Craig Leres <leres@ee.lbl.gov> 4.4BSD port, ppslock, Magnavox GPS clock driver
- George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1

port
Louis A. Mamakos <louie@ni.umd.edu> MD5-based authentication
Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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```
/* -*- Mode: Text -*- */
```

```
copyright = {  
  date = "1992-2017";  
  owner = "The University of Delaware and Network Time Foundation";  
  eaddr = "http://bugs.ntp.org, bugs@ntp.org";  
  type = ntp;  
};
```

```
long-opts;  
config-header = config.h;  
environrc;  
no-misuse-usage;  
version-proc = ntpOptionPrintVersion;
```

```
version      = `  
eval VERSION=\`sed -e 's/.*,\\[//' -e 's/^\\.*/' < ../sntp/m4/version.m4\  
[ -z "${VERSION}" ] && echo "Cannot determine VERSION" && kill -TERM $AG_pid  
echo $VERSION`;
```

```
version-value = "/* Don't use -v as a shortcut for --version */
```

```
/*  
* HMS: man pages already have this, and texi pages can use the  
* values in sntp/include/version.texi .  
*/
```

```
// doc-sub = {  
//   sub-name = version;  
//   sub-text = 's/#VERSION#/<<version>>/g';  
// };
```

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1.265 number-is-nan 1.0.1

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1.266 object-assign 4.1.1

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1.267 object.omit 2.0.1

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1.268 odfpy 1.3.6

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```
>>> cvtutf-1.4
>>> freebsd-1.72
>>> freebsd-base64-4.8
>>> icu4c-4.4.1
```

>>> unicode-5.0

SECTION 2: GNU Lesser General Public License, V2.1

>>> libmspack-0.0.20040308alpha

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>>> freebsd-base64-4.8

base64.c -- routines to encode/decode base64 data

\$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp \$ /

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>>> icu4c-4.4.1

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[OPENVMTOOLS1010HS090816]

1.271 openldap 2.4.45

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1.276 output-file-sync 1.1.2

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1.279 parse-asn1 5.1.1

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1.280 parse-glob 3.0.4

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1.281 parso 0.3.1

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1.282 path-is-absolute 1.0.1

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1.283 pbkdf2 3.0.16

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1.284 pcre 8.41

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1.285 pexpect 4.6.0

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1.286 pickleshare 0.7.4

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1.287 pip 18.0

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1.288 pkijs 2.1.10

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1.289 plotly.js-basic-dist 1.44.1

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1.290 postgresql 10.3

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Notice and warning messages generated by the server are not returned

by the query execution functions, since they do not imply failure of the query. Instead they are passed to a notice handling function, and execution continues normally after the handler returns. The default notice handling function prints the message on

`stderr`, but the application can override this behavior by supplying its own handling function.

For historical reasons, there are two levels of notice handling, called the notice receiver and notice processor. The default behavior is for the notice receiver to format the notice and pass a string to the notice processor for printing. However, an application that chooses to provide its own notice receiver will typically ignore the notice processor layer and just do all the work in the notice receiver.

The function `PQsetNoticeReceiver`

``

`` sets or

examines the current notice receiver for a connection object.

Similarly, `PQsetNoticeProcessor`

``

`` sets or

examines the current notice processor.

```
</p><pre class="synopsis">typedef void (*PQnoticeReceiver) (void *arg, const PGresult *res);
```

`PQnoticeReceiver`

```
PQsetNoticeReceiver(PGconn *conn,
```

```
    PQnoticeReceiver proc,
```

```
    void *arg);
```

```
typedef void (*PQnoticeProcessor) (void *arg, const char *message);
```

`PQnoticeProcessor`

```
PQsetNoticeProcessor(PGconn *conn,
```

```
    PQnoticeProcessor proc,
```

```
    void *arg);</pre><p>
```

Each of these functions returns the previous notice receiver or processor function pointer, and sets the new value. If you supply a null function pointer, no action is taken, but the current pointer is returned.

When a notice or warning message is received from the server, or generated internally by `libpq`, the notice receiver function is called. It is passed the message in the form of a `PGRES_NONFATAL_ERROR` `PGresult`. (This allows the receiver to extract individual fields using `PQresultErrorField`, or obtain a complete preformatted message using `PQresultErrorMessage` or `PQresultVerboseErrorMessage`.) The same void pointer passed to `PQsetNoticeReceiver` is also passed. (This pointer can be used to access application-specific state if needed.)

The default notice receiver simply extracts the message (using `PQresultErrorMessage`) and passes it to the notice processor.

The notice processor is responsible for handling a notice or warning message given in text form. It is passed the string text of the message (including a trailing newline), plus a void pointer that is the same one passed to `PQsetNoticeProcessor`. (This pointer can be used to access application-specific state if needed.)

The default notice processor is simply:

```
</pre><pre class="programlisting">static void
defaultNoticeProcessor(void *arg, const char *message)
{
    fprintf(stderr, "%s", message);
```

```
}</pre><p>
```

</p><p> Once you have set a notice receiver or processor, you should expect that that function could be called as long as either the <code class="structname">PGconn</code> object or <code class="structname">PGresult</code> objects made from it exist. At creation of a <code class="structname">PGresult</code>, the <code class="structname">PGconn</code>'s current notice handling pointers are copied into the <code class="structname">PGresult</code> for possible use by functions like <code class="function">PQgetvalue</code>.

```
</p></div><div class="navfooter"><hr /><table width="100%" summary="Navigation footer"><tr><td width="40%" align="left"><a accesskey="p" href="libpq-misc.html">Prev</a></td><td width="20%" align="center"><a accesskey="u" href="libpq.html">Up</a></td><td width="40%" align="right"><a accesskey="n" href="libpq-events.html">Next</a></td></tr><tr><td width="40%" align="left" valign="top">33.11.Miscellaneous Functions</td><td width="20%" align="center"><a accesskey="h" href="index.html">Home</a></td><td width="40%" align="right" valign="top">33.13.Event System</td></tr></table></div></body></html>
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1.291 preserve 0.2.0

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1.292 private 0.1.8

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1.293 process-nextick-args 2.0.0

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1.294 procps-ng 3.3.15

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1.295 prompt-toolkit 1.0.15

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1.296 psycopg2 2.7.5

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1.298 public-encrypt 4.0.2

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1.299 punycode 1.4.1

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1.300 pvutils 1.0.12

1.301 pyasn1 0.4.4

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1.302 pyasn1 0.1.9

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1.303 pyasn1-modules 0.2.2

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1.304 pycparser 2.17

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1.305 pycparser 2.18

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1.307 PyHamcrest 1.9.0

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1.313 python 3.6.6

1.313.1 Available under license :

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

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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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History of the software

=====

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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 (now Zope Corporation; see <http://www.zope.com/>). 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 is a sponsoring member of the PSF.

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|----------------|--------------|-----------|-------|-----------------|
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| | | | | | |
|---------------|-----------|----------|------------|-----|--|
| 1.6 | 1.5.2 | 2000 | CNRI | no | |
| +-----+ | | | | | |
| 2.0 | 1.6 | 2000 | BeOpen.com | no | |
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| 2.1.3 | 2.1.2 | 2002 | PSF | yes | |
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Mersenne Twister

The :mod:`_random` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
or `init_by_array(init_key, key_length)`.

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Sockets

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and
`:func:`getnameinfo``, which are coded in separate source files from the WIDE
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Asynchronous socket services

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Modified by Jack Jansen, CWI, July 1995:

- Use `binascii` module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

The `:mod:`xmlrpc.client`` module contains the following notice::

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves ([supercop/crypto_auth/siphash24/little](https://github.com/supercop/crypto_auth/siphash24/little))

djb ([supercop/crypto_auth/siphash24/little2](https://github.com/supercop/crypto_auth/siphash24/little2))

Jean-Philippe Aumasson (<https://131002.net/siphash/siphash24.c>)

strtod and dtoa

The file `:file:`Python/dtoa.c``, which supplies C functions `dtoa` and `strtod` for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from <http://www.netlib.org/fp/>. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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cfuhash

The implementation of the hash table used by the `:mod:`tracemalloc`` is based on the cfuhash project::

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

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| | | | | |
|----------------|-----------|-----------|------------|---------|
| 0.9.0 thru 1.2 | | 1991-1995 | CWI | yes |
| 1.3 thru 1.5.2 | 1.2 | 1995-1999 | CNRI | yes |
| 1.6 | 1.5.2 | 2000 | CNRI | no |
| 2.0 | 1.6 | 2000 | BeOpen.com | no |
| 1.6.1 | 1.6 | 2001 | CNRI | yes (2) |
| 2.1 | 2.0+1.6.1 | 2001 | PSF | no |
| 2.0.1 | 2.0+1.6.1 | 2001 | PSF | yes |
| 2.1.1 | 2.1+2.0.1 | 2001 | PSF | yes |
| 2.1.2 | 2.1.1 | 2002 | PSF | yes |
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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 (now Zope Corporation; see <http://www.zope.com/>). 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 is a sponsoring member of the PSF.

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|----------------|--------------|-----------|------------|-----------------|
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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 | no |

| | | | | | |
|---------------|-----------|----------|-----|-----|--|
| 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 | |
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Mersenne Twister

The `:mod:`_random`` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`
or `init_by_array(init_key, key_length)`.

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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets

The `:mod:`socket`` module uses the functions, `:func:`getaddrinfo``, and `:func:`getnameinfo``, which are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>. ::

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Floating point exception control

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Asynchronous socket services

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Execution tracing

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use `binascii` module to do the actual line-by-line conversion between `ascii` and `binary`. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

The `:mod:`xmlrpc.client`` module contains the following notice::

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Select kqueue

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SipHash24

The file `:file:`Python/pyhash.c`` contains Marek Majkowski's implementation of Dan Bernstein's SipHash24 algorithm. The contains the following note::

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

Samuel Neves (supercop/crypto_auth/siphash24/little)

djb (supercop/crypto_auth/siphash24/little2)

Jean-Philippe Aumasson (<https://131002.net/siphash/siphash24.c>)

strtod and dtoa

The file `:file:`Python/dtoa.c``, which supplies C functions `dtoa` and `strtod` for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from <http://www.netlib.org/fp/>. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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zlib

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

cfuhash

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1.314 python-backports-ssl_match_hostname

3.5.0.1

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1.315 python-blessed 1.14.1

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1.316 python-cached-property 1.3.0

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1.317 python-cffi 1.11.5

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1.318 python-cffi 1.10.0

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1.319 python-cryptography 1.7.2

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1.320 python-docker 2.0.2

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1.321 python-dockerpty 0.4.1

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1.322 python-ldap 3.1.0

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1.323 python-requests 2.11.1

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1.324 python-zope-interface 4.4.3

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1.325 pytz 2018.5

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1.326 PyYAML 3.13

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1.328 randomatic 1.1.7

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1.329 randombytes 2.0.6

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1.330 randomfill 1.0.4

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1.331 readable-stream 2.3.6

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1.335 redis 2.10.6

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1.337 regenerator-runtime 0.10.5

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1.338 regenerator-runtime 0.11.1

1.339 regenerator-transform 0.10.1

1.340 regex-cache 0.4.4

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1.341 regexpu-core 2.0.0

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1.343 regjsparser 0.1.5

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1.344 remove-trailing-separator 1.1.0

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1.345 repeat-element 1.1.2

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1.346 repeat-string 1.6.1

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1.347 repeating 2.0.1

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1.348 requests 2.21.0

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1.349 requests-ntlm 1.1.0

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1.350 requests-toolbelt 0.8.0

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1.351 responses 0.10.5

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1.352 rfc3987 1.3.7

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1.355 safe-buffer 5.1.1

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1.356 safe-buffer 5.1.2

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1.357 set-immediate-shim 1.0.1

1.358 setuptools 38.4.0

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1.359 setuptools 40.2.0

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1.361 simplegeneric 0.8.1 :1

1.362 six 1.11.0

1.363 slash 1.0.0

1.364 source-map 0.5.7

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1.365 source-map-support 0.4.18

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1.366 sqlite 3.21.0

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3de1687d7432ea9b302c2db9521996f506c140a

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1.369 string_decoder 1.1.1

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1.370 strip-ansi 3.0.1

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```
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```

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```
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This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

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```
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```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
```

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1.372 sudo 1.8.21p2

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The following list of people, sorted by last name, have contributed code or patches to this implementation of sudo since I began maintaining it in 1993. This list is known to be incomplete--if you believe you should be listed, please send a note to sudo@sudo.ws.

Ackeret, Matt
Adler, Mark
Allbery, Russ
Anderson, Jamie
Andrew, Nick
Andric, Dimitry
Barron, Danny
Bates, Tom
Behan, Zdenk
Bellis, Ray
Benali, Elias
Beverly, Jamie
Boardman, Spider
Bostley, P.J.
Bowes, Keith
Boyce, Keith Garry
Brantley, Michael
Braun, Rob
Bezina, Pavel
Brooks, Piet
Brown, Jerry

Burr, Michael E
Burton, Ross
Bussjaeger, Andreas
Calvin, Gary
Campbell, Aaron
Chazelas, Stephane
ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
Espie, Marc
Faigon, Ariel
Farrell, Brian
Fobes, Steve
Frysiner, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillory, B.
Hayman, Randy M.
Henke, Joachim
Hideaki, YOSHIFUJI
Hieb, Dave
Holloway, Nick
Hoover, Adam
Hunter, Michael T.
Hutchings, Ben
Irrgang, Eric
Jackson, Brian
Jackson, John R.
Jackson, Richard L., Jr.
Janssen, Mark
Jepeway, Chris
Jorge, Joel Pele
Pele Jorge, Joel
Juhani, Timo
KIKUCHI, Ayamura
Kadow, Kevin
Kasal, Stepan
Kienenberger, Mike

King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
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Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
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Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik

Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
SATO, Yuichi
Snchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
Street, Russell
Stritzky, Tilo
Stroucken, Michael
Tarrall, Robert
Thomas, Matthew
Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
Valery, Reznic
Van Dinter, Theo
Venckus, Martynas
de Vries, Maarten
Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary

Wood, David
Zacarias, Gustavo
Zolnowsky, John

The following people have worked to translate sudo into other languages:

Blttermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
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Hufthammer, Karl Ove
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Margeviius, Algimantas
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Nikoli, Miroslav
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Sendn, Abel
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```

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```

```
*/
```

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

1.373 supports-color 2.0.0

1.373.1 Available under license :

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

> Detect whether a terminal supports color

```
## Install
```

```
...
```

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

```
...
```

```
## Usage
```

```
```js
```

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

```
if (supportsColor) {
```

```
 console.log('Terminal supports color');
```

```
}
```

```
```
```

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

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

```
## Related
```

```
- [supports-color-cli](https://github.com/chalk/supports-color-cli) - CLI for this module
```

```
- [chalk](https://github.com/chalk/chalk) - Terminal string styling done right
```

```
## License
```

```
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```

1.374 syslinux 6.03

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```

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*
* This file is part of the lwIP TCP/IP stack.
*
* Author: Adam Dunkels <adam@sics.se>
*
*/

```

1.375 tablib 0.12.1

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1.376 texttable 0.8.7

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1.377 to-fast-properties 1.0.3

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1.378 traitlets 4.3.2

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1.380 twisted 18.7.0

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"""

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"""

```
from __future__ import division, absolute_import
```

```
__all__ = ['copyright', 'disclaimer', 'longversion', 'version']
```

```
from twisted import __version__ as version, version as longversion
```

```
longversion = str(longversion)
```

```
copyright="""\
```

```
Copyright (c) 2001-2018 Twisted Matrix Laboratories.
```

```
See LICENSE for details."""
```

```
disclaimer=""
```

```
Twisted, the Framework of Your Internet
```

```
%s
```

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1.381 txai 18.8.1

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1.382 tzdata 2018c

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1.383 underscore 1.8.3

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1.384 unicodecsv 0.14.1

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1.385 urllib3 1.24.1

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Contributions to the urllib3 project

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Contributors

In chronological order:

- * victor.vde <<http://code.google.com/u/victor.vde/>>
- * HTTPS patch (which inspired HTTPSConnectionPool)

- * erikcederstrand <<http://code.google.com/u/erikcederstrand/>>
- * NTLM-authenticated HTTPSConnectionPool
- * Basic-authenticated HTTPSConnectionPool (merged into make_headers)

- * niphlod <niphlod@gmail.com>
- * Client-verified SSL certificates for HTTPSConnectionPool
- * Response gzip and deflate encoding support
- * Better unicode support for filepost using StringIO buffers

- * btoconnor <brian@btoconnor.net>
- * Non-multipart encoding for POST requests

- * p.dobrogost <<http://code.google.com/u/@WBRSRIBZDhBFXQB6/>>
- * Code review, PEP8 compliance, benchmark fix

- * kennethreitz <me@kennethreitz.com>
- * Bugfixes, suggestions, Requests integration

- * georgemarshall <<https://github.com/georgemarshall>>
- * Bugfixes, Improvements and Test coverage

- * Thomas Kluyver <thomas@kluyver.me.uk>
- * Python 3 support

- * brandon-rhodes <<http://rhodesmill.org/brandon>>

- * Design review, bugfixes, test coverage.

- * studer <theo.studer@gmail.com>
- * IPv6 url support and test coverage

- * Shivaram Lingamneni <slingamn@cs.stanford.edu>
- * Support for explicitly closing pooled connections

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

- * Thomas Weischuh <thomas@t-8ch.de>
- * Support for TLS SNI
- * API unification of ssl_version/cert_reqs
- * SSL fingerprint and alternative hostname verification
- * Bugfixes in testsuite

- * Sune Kirkeby <mig@ibofobi.dk>
- * Optional SNI-support for Python 2 via PyOpenSSL.

- * Marc Schlaich <marc.schlaich@gmail.com>
- * Various bugfixes and test improvements.

- * Bryce Boe <bbzbryce@gmail.com>
- * Correct six.moves conflict
- * Fixed pickle support of some exceptions

- * Boris Figovsky <boris.figovsky@ravellosystems.com>
- * Allowed to skip SSL hostname verification

- * Cory Benfield <<https://lukasa.co.uk/about/>>
- * Stream method for Response objects.
- * Return native strings in header values.
- * Generate 'Host' header when using proxies.

- * Jason Robinson <jaywink@basshero.org>
- * Add missing WrappedSocket.fileno method in PyOpenSSL

- * Audrius Butkevicius <audrius.butkevicius@elastichosts.com>
- * Fixed a race condition

- * Stanislav Vitkovskiy <stas.vitkovsky@gmail.com>
- * Added HTTPS (CONNECT) proxy support

- * Stephen Holsapple <sholsapp@gmail.com>
- * Added abstraction for granular control of request fields

- * Martin von Gagern <Martin.vGagern@gmx.net>

- * Support for non-ASCII header parameters

- * Kevin Burke <kev@inburke.com> and Pavel Kirichenko <juanych@yandex-team.ru>
- * Support for separate connect and request timeouts

- * Peter Waller <p@pwaller.net>
- * HTTPResponse.tell() for determining amount received over the wire

- * Nipunn Koorapati <nipunn1313@gmail.com>
- * Ignore default ports when comparing hosts for equality

- * Danilo @dbrgn <https://dbrgn.ch/>
- * Disabled TLS compression by default on Python 3.2+
- * Disabled TLS compression in pyopenssl contrib module
- * Configurable cipher suites in pyopenssl contrib module

- * Roman Bogorodskiy <roman.bogorodskiy@ericsson.com>
- * Account retries on proxy errors

- * Nicolas Delaby <nicolas.delaby@ezeep.com>
- * Use the platform-specific CA certificate locations

- * Josh Schneier <https://github.com/jschneier>
- * HTTPHeaderDict and associated tests and docs
- * Bugfixes, docs, test coverage

- * Tahia Khan <http://tahia.tk/>
- * Added Timeout examples in docs

- * Arthur Grunseid <https://grunseid.com>
- * source_address support and tests (with https://github.com/bui)

- * Ian Cordasco <graffatcolmingov@gmail.com>
- * PEP8 Compliance and Linting
- * Add ability to pass socket options to an HTTP Connection

- * Erik Tollerud <erik.tollerud@gmail.com>
- * Support for standard library io module.

- * Krishna Prasad <kprasad.iitd@gmail.com>
- * Google App Engine documentation

- * Aaron Meurer <asmeurer@gmail.com>
- * Added Url.url, which unparses a Url

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

- * Benjamin Meyer <bm_witness@yahoo.com>
- * Security Warning Documentation update for proper capture

- * Shivan Sornarajah <github@sornars.com>
- * Support for using ConnectionPool and PoolManager as context managers.

- * Alex Gaynor <alex.gaynor@gmail.com>
- * Updates to the default SSL configuration

- * Tomas Tomecek <ttomecek@redhat.com>
- * Implemented generator for getting chunks from chunked responses.

- * tlynn <https://github.com/tlynn>
- * Respect the warning preferences at import.

- * David D. Riddle <ddriddle@illinois.edu>
- * IPv6 bugfixes in testsuite

- * Thea Flowers <magicalgirl@google.com>
- * App Engine environment tests.
- * Documentation re-write.

- * John Krauss <https://github.com/talos>
- * Clues to debugging problems with `cryptography` dependency in docs

- * Disassem <https://github.com/Disassem>
- * Fix pool-default headers not applying for url-encoded requests like GET.

- * James Atherfold <jlatherfold@hotmail.com>
- * Bugfixes relating to cleanup of connections during errors.

- * Christian Pedersen <https://github.com/chripede>
- * IPv6 HTTPS proxy bugfix

- * Jordan Moldow <https://github.com/jmoldow>
- * Fix low-level exceptions leaking from ``HTTPResponse.stream()``.
- * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
- * Creation of ``HTTPConnectionPool.ResponseCls``.

- * Predrag Gruevski <https://github.com/obi1kenobi>
- * Made cert digest comparison use a constant-time algorithm.

- * Adam Talsma <https://github.com/a-tal>
- * Bugfix to ca_cert file paths.

- * Evan Meagher <https://evanmeagher.net>
- * Bugfix related to `memoryview` usage in PyOpenSSL adapter

- * John Vandenberg <jayvdb@gmail.com>
 - * Python 2.6 fixes; pyflakes and pep8 compliance

- * Andy Caldwell <andy.m.caldwell@googlemail.com>
 - * Bugfix related to reusing connections in indeterminate states.

- * Ville Skytt <ville.skytta@iki.fi>
 - * Logging efficiency improvements, spelling fixes, Travis config.

- * Shige Takeda <smtakeda@gmail.com>
 - * Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response

- * Jesse Shapiro <jesse@jesseshapiro.net>
 - * Various character-encoding fixes/tweaks
 - * Disabling IPv6 DNS when IPv6 connections not supported

- * David Foster <http://dafoster.net/>
 - * Ensure order of request and response headers are preserved.

- * Jeremy Cline <jeremy@jcline.org>
 - * Added connection pool keys by scheme

- * Aviv Palivoda <palaviv@gmail.com>
 - * History list to Retry object.
 - * HTTPResponse contains the last Retry object.

- * Nate Prewitt <nate.prewitt@gmail.com>
 - * Ensure timeouts are not booleans and greater than zero.
 - * Fixed infinite loop in ``stream`` when amt=None.
 - * Added length_remaining to determine remaining data to be read.
 - * Added enforce_content_length to raise exception when incorrect content-length received.

- * Seth Michael Larson <sethmichaellarson@protonmail.com>
 - * Created selectors backport that supports PEP 475.

- * Alexandre Dias <alex.dias@smarkets.com>
 - * Don't retry on timeout if method not in whitelist

- * Moinuddin Quadri <moin18@gmail.com>
 - * Lazily load idna package

- * Tom White <s6yg1ez3@mail2tor.com>
 - * Made SOCKS handler differentiate socks5h from socks5 and socks4a from socks4.

- * Tim Burke <tim.burke@gmail.com>
 - * Stop buffering entire deflate-encoded responses.

- * Tuukka Mustonen <tuukka.mustonen@gmail.com>

- * Add counter for status_forcelist retries.

- * Erik Rose <erik@mozilla.com>
- * Bugfix to pyopenssl vendoring

- * Wolfgang Richter <wolfgang.richter@gmail.com>
- * Bugfix related to loading full certificate chains with PyOpenSSL backend.

- * Mike Miller <github@mikeage.net>
- * Logging improvements to include the HTTP(S) port when opening a new connection

- * Ioannis Tziakos <mail@itziakos.gr>
- * Fix ``util.selectors._fileobj_to_fd`` to accept ``long``.
- * Update appveyor tox setup to use the 64bit python.

- * Akamai (through Jesse Shapiro) <jshapiro@akamai.com>
- * Ongoing maintenance

- * Dominique Leuenberger <dimstar@opensuse.org>
- * Minor fixes in the test suite

- * Will Bond <will@wbond.net>
- * Add Python 2.6 support to ``contrib.securetransport``

- * Aleksei Alekseev <alekseev.yeskela@gmail.com>
- * using auth info for socks proxy

- * Chris Wilcox <git@crwilcox.com>
- * Improve contribution guide
- * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

- * Bruce Merry <https://www.brucemerry.org.za>
- * Fix leaking exceptions when system calls are interrupted with zero timeout

- * Hugo van Kemenade <https://github.com/hugovk>
- * Drop support for EOL Python 2.6

- * Tim Bell <https://github.com/timb07>
- * Bugfix for responses with Content-Type: message/* logging warnings

- * Justin Bramley <https://github.com/jbramleycl>
- * Add ability to handle multiple Content-Encodings

- * [Your name or handle] <[email or website]>
- * [Brief summary of your changes]

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1.388 util-linux 2.31.1

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1.389 v8flags 2.1.1

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1.390 vcversioner 2.16.0.0

1.391 vine 1.1.4

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1.392 wewidth 0.1.7 :1

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1.393 webcolors 1.7

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1.394 websocket-client 0.40.0

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websocket - WebSocket client library for Python

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Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.

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1.396 wrappy 1.0.2

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1.400 xmltodict 0.11.0

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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

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

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If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

```
Gnomovision version 69, Copyright (C) year name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
This is free software, and you are welcome to redistribute it  
under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

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Version 2.1, February 1999

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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, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

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<signature of Ty Coon>, 1 April 1990
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Version 3, 29 June 2007

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1.402 zeep 2.5.0

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Parts of the XSD handling are heavily inspired by soapfish, see:
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The support for BinarySecurityToken is from py-wsse, see:
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