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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
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```

```
<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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<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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## 1.114 coverage 4.3.4

### 1.114.1 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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#endif /* _KERBEROS_MIT_COPYRIGHT_H */
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## 1.123 dcron 4.5

## 1.124 debug 2.6.9

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}
{
  // 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
"yui"         : false, // Yahoo User Interface

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

```

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# 1.128 detect-indent 4.0.0

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# 1.129 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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-->

<!-- \$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, '&#10;'))"/>

<xsl:text>&#10;</xsl:text>

<xsl:variable name="rest" select="substring-after(\$text, '&#10;')"/>

<xsl:if test="translate(\$rest, '&#9;&#32;', '')">

<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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</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="$isc.copyright.breakline"/>
<xsl:text>&#10;</xsl:text>
</xsl:for-each>
<xsl:value-of select="$isc.copyright.text"/>
  </xsl:with-param>
</xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->
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```

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# 1.130 diff-match-patch 20121119

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## 1.131 diffie-hellman 5.0.3

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## 1.132 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 the PSF.

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

.. \_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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#### A. HISTORY OF THE SOFTWARE

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

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

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

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

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

Footnotes:



(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

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

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

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## 1.138 djangorestframework 3.8.2

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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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<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/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.
- 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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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.

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```
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```

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

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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`.

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

Helpers for getting values are superseded by the

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

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package main

import (
  "log"

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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.
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```
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```

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

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

import (
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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 {
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    },
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  if err != nil {
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  }
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  err = proto.Unmarshal(data, newTest)
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}
```

```

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

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

=====

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All desired fields must be set before marshaling.

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- 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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- 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.
}

```

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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:

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

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func main() {
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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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    if test.GetLabel() != newTest.GetLabel() {
        log.Fatalf("data mismatch %q != %q", test.GetLabel(), newTest.GetLabel())
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Its import is [google/protobuf/descriptor.proto](https://code.google.com/p/protobuf/trunk/src/descriptor.proto) so it might need some help.

```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
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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 {
    log.Fatal("unmarshaling error: ", err)
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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 --gogo_out=plugins=grpc:. *.proto
```

=====

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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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```
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`:

- 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.
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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"
```

```
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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 {
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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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}

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

```

package main

import (
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func main() {
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      RequiredField: proto.String("good bye"),
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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;
  }
}
```

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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.
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```
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```

=====

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

### ## Installation ##

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See

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

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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.

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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GoGoProtobuf provides extensions for protocol buffers and GoProtobuf  
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The generated files will be suffixed .pb.go. See the Test code below  
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```
protoc --gogo_out=. -I=.:github.com/gogo/protobuf/protobuf *.proto
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package main

import (
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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)
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enum FOO { X = 17; };

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```

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

```
package main

import (
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  "path/to/example"
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func main() {
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    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
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  }
  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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That is, optional or required field `int32 f` becomes `F *int32`.

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```
package example;
```

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

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)
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```
protoc --gogo_out=plugins=grpc:. *.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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If you are using any gogo.proto extensions you will need to specify the proto\_path to include the descriptor.proto and gogo.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.

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

```
=====
```

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Consider file test.proto, containing

```
package example;
```

```
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```

```
message Test {  
  required string label = 1;  
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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"

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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 {
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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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```

## 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:

```
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```

=====

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package main

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  err = proto.Unmarshal(data, newTest)
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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())
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=====

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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

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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
```

=====

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.
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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 {
  required string label = 1;
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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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=====

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

```
=====
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```

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```

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

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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 {
        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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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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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/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];
  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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        },
    }
    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 --go_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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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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Go support for Protocol Buffers - Google's data interchange format

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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/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](https://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](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/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 --go_out=plugins=grpc:. *.proto
```

=====

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### ## 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>

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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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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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GoGoProtobuf provides extensions for protocol buffers and GoProtobuf  
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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  
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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  
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version.

If you are using any `gogo.proto` extensions you will need to specify the  
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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.  
`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  
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A summary of the properties of the protocol buffer interface  
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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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- 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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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

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

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Extensions for Protocol Buffers to create more go like structures.

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

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```
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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 {
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  }
  newTest := &example.Test{}
  err = proto.Unmarshal(data, newTest)
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`gogo.proto` is located in `github.com/gogo/protobuf/gogoproto`

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

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=====
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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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Consider file test.proto, containing

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package example;

enum FOO { X = 17; };

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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"
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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 {
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  }
  // Now test and newTest contain the same data.
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```

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

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

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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.

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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## ## 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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```
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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- 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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```
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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"

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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 {
log.Fatal("unmarshaling error: ", err)
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```
protoc --gogo_out=plugins=grpc:. *.proto
```

=====

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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.

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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/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/)

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```
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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];
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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() {
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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:

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=====

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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](https://github.com/gogo/protobuf/protobuf) or [code.google.com/p/protobuf/trunk/src/](https://code.google.com/p/protobuf/trunk/src/)

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msg.Foo = proto.String("hello") // set field
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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 {
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}
// Now test and newTest contain the same data.
if test.GetLabel() != newTest.GetLabel() {
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}
// etc.
}

```

## gRPC Support

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

=====

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```
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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

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

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

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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 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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  }
}
```

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{}
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    // Now test and newTest contain the same data.
    if test.GetLabel() != newTest.GetLabel() {
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```
protoc --gogo_out=plugins=grpc:. *.proto
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=====

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

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

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=====

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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() {
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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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```
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```

=====

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=====

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```
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```

```
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"
```

```
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```

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

```

)

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

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    required string RequiredField = 5;
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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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=====

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Extensions for Protocol Buffers to create more go like structures.

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

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

=====

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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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)

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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}
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=====

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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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Consider file test.proto, containing

```
package example;

enum FOO { X = 17; };

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 {
        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:

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=====

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```
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  "log"

  "github.com/gogo/protobuf/proto"
  "path/to/example"
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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{}
  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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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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package example;

enum FOO { X = 17; };

message Test {
  required string label = 1;
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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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    }
    // 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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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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The simplest way is to run

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

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```

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

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}

```

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 {
    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{}
  err = proto.Unmarshal(data, newTest)
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  // etc.
}

```

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

---

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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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```

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)

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/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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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];
```

```
  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"

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)

func main() {
    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)
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        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())
    }
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```

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=====

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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 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](https://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](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://github.com/gogo/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>

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/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/gogoprot`. 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.
- 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>

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

```
=====
```

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- Repeated fields are slices.

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GetFoo methods and their use is deprecated.

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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];
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>

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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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## 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/gogoprotobuf/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/gogoprotobuf](http://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](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())
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// etc.
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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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=====

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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}
```

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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```
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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.

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

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

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

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import (
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func main() {
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    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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=====

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```

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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/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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  - 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.
}

```

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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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```
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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.

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

```

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=====

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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](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/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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- 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.
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msg.Foo = proto.String("hello") // set field
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package example;

enum FOO { X = 17; };

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  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 {
    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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```

=====

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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`.

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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];
```

```
  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)
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// Now test and newTest contain the same data.
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=====

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=====

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```

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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 {
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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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```



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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:

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=====

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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 {
    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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See

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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.

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

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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.
- 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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msg.Foo = proto.String("hello") // set field
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package example;

enum FOO { X = 17; };

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

```
package main

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

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)

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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.

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package example;
```

```

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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())
  }
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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>

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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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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.

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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
```

```
=====
```

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`.

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  }
}
```

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 {
    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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```
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=====

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```
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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 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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```
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

```
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"

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

=====

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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 so it might need some help.

```
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=====

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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.  
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enum FOO { X = 17; };

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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())
}
// etc.
}

```

## gRPC Support

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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/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.
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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() {
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// etc.
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=====

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

=====

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

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

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

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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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  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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  "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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=====

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```
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```

=====

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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](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/protobuf/descriptor.proto) so it might need some help.

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

=====

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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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Because the getter methods handle defaulted values,

direct use of these constants should be rare.

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

=====

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Consider file test.proto, containing

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

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

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See

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

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```

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

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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.
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Helpers for getting values are superseded by the

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

=====

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```

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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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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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    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:

```
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```

=====

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

```

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```

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

func main() {
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    Type: proto.Int32(17),
    Optionalgroup: &example.Test_OptionalGroup {
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    },
  }
  data, err := proto.Marshal(test)
  if err != nil {
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  }
  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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=====

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```
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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.

- 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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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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ffjson

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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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---

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,
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## ## 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**.



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### ## 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

---

Docker Trusted Registry allows you to define fine-grain permissions over image repositories.

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|                       |  |  |   |  |   |
|-----------------------|--|--|---|--|---|
| 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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\* [Authentication and authorization](index.md)

---

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

title: Permission levels

---

Docker Trusted Registry allows you to define fine-grain permissions over image repositories.

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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 |  |
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## ## 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

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## ## 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



| 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.

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### ## 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. |

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## ## 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

---

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](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

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- \* 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 <code>docker exec</code> , 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

After installing Docker Universal Control Plane, you need to license your installation. Here's how to do it.

## Download your license

Go to [Docker Store](https://store.docker.com/bundles/docker-datacenter) and download your UCP license or get a free trial license.

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Click **Upload License** for the changes to take effect.

## Where to go next

\* [Install UCP](../install/index.md)

\* [Install UCP offline](../install/install-offline.md)

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# 1.140 docker-compose 1.10.0

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## 1.142 docopt 0.6.2

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## 1.145 escape-string-regexp 1.0.5

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## 1.148 evp\_bytestokey 1.0.3

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

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

@item

A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a ``work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a ``work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a ``work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a ``work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

@item

As an exception to the Sections above, you may also combine or link a ``work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

@enumerate a

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Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable ``work that uses the Library'', as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

@item

Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

@item

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

@item

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

@item

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

@end enumerate

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

It may happen that this requirement contradicts the license

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@item

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@enumerate a

@item

Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

@item

Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

@end enumerate

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@subheading END OF TERMS AND CONDITIONS

@page

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@smallexample

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@var{signature of Ty Coon}, 1 April 1990

Ty Coon, President of Vice  
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Version 2.1, February 1999

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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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Version 3, 29 June 2007

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## 1.170 gojsonpointer

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## 1.173 graceful-fs 4.1.11

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## 1.174 has-ansi 2.0.0

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```
# has-ansi [![Build Status](https://travis-ci.org/sindresorhus/has-ansi.svg?branch=master)](https://travis-ci.org/sindresorhus/has-ansi)
```

> Check if a string has [ANSI escape codes](http://en.wikipedia.org/wiki/ANSI\_escape\_code)

```
## Install
```

```
---
```

```
$ 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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## 1.175 hash-base 3.0.4

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## 1.176 hash.js 1.1.5

## 1.177 hiredis 0.2.0

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## 1.184 ifupdown 0.8.16

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## 1.208 jdcal 1.4

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If you have Invariant Sections, Front-Cover Texts and Back-Cover Texts, replace the ``with@dots{ }Texts." line with this:

@smallexample

@group

with the Invariant Sections being @var{list their titles}, with the Front-Cover Texts being @var{list}, and with the Back-Cover Texts



```
being @var{list}.
@end group
@end smallexample
```

If you have Invariant Sections without Cover Texts, or some other combination of the three, merge those two alternatives to suit the situation.

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```
@c Local Variables:
@c ispell-local-pdict: "ispell-dict"
@c End:
@c The GNU General Public License.
@center Version 3, 29 June 2007
```

```
@c This file is intended to be included within another document,
@c hence no sectioning command or @node.
```

```
@display
Copyright @copyright{ } 2007 Free Software Foundation, Inc. @url{http://fsf.org/}
```

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```
@end display
```

```
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```

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## 1.236 Linux Kernel 4.19.52

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#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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```

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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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That's all there is to it!

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Michael Holz <kju@debian.org>  
for his contributions to the dvb-net driver

Diego Picciani <d.picciani@novacompt.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

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Florian Schirmer <jolt@tuxbox.org>  
Ronny Strutz <3des@elitedvb.de>  
Wolfram Joost <dbox2@frokaschwei.de>

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for maintaining v4l/dvb inter-tree dependencies

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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.

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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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```
/* 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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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*
*/

```

```

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```

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```
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```

```
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```
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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  
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        || strcmp(license, "Dual MPL/GPL") == 0);  
}
```

```
#endif
```

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.. note::

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Linus Torvalds

```
/* 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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```
/* 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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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*/

```

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```
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```

```
#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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```

```
QLogic Linux qlge NIC Driver
```

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=====

.. note::

This documentation is outdated. There are several other DVB contributors that aren't listed below.

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(If you think you should be in this list, but you are not, drop a  
line to the DVB mailing list)

:orphan:

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=====

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License identifier syntax

-----

#### 1. Placement:

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|

#### 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 dtsti 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:

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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:

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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

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# 1.237 linux-headers 4.19.52

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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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+ 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:

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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)

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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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* Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.
*
* M. Welsh, 6 July 1996
*
*/
/* 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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```
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#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
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}

#endif
```

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.. note::

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```
#ifndef __LICENSE_H
```

```
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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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```

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## 1.239 logrotate 3.13.0

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## 1.254 mpdecimal 2.4.1 :1

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Source: <http://www.bytereef.org/mpdecimal/download.html>

Files: \*

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## 1.256 msgpack 0.5.6

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## 1.257 ncurses 6.0

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

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# 1.258 ndisc6 1.0.3

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## 1.259 net-tools

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### b

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## 1.261 netlink

**dbc72376c86301bb873c332830857e73c9f701e**

### 3

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## 1.262 netns

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1

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## 1.263 nettle 3.4

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## 1.265 normalize-path 2.1.1

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## 1.267 ntp 4.2.8p12

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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';
// };
<!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.
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<li><a href="mailto:%20mark_andrews@isc.org">Mark Andrews <mark_andrews@isc.org></a> Leitch atomic
clock controller</li>
<li><a href="mailto:%20altmeier@atsoft.de">Bernd Altmeier <altmeier@atsoft.de></a> hopf Elektronik serial
line and PCI-bus devices</li>
<li><a href="mailto:%20vbais@mailman1.intel.co">Viraj Bais <vbais@mailman1.intel.com></a> and <a
href="mailto:%20kirkwood@striderfm.intel.com">Clayton Kirkwood <kirkwood@striderfm.intel.com></a> port to
WindowsNT 3.5</li>
<li><a href="mailto:%20michael.barone@lmco.com">Michael Barone <michael,barone@lmco.com></a>
GPSVME fixes</li>
<li><a href="mailto:%20karl@owl.HQ.ileaf.com">Karl Berry <karl@owl.HQ.ileaf.com></a> syslog to file

```

option</li>

<li><a href="mailto:%20greg.brackley@bigfoot.com">Greg Brackley <greg.brackley@bigfoot.com></a> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.</li>

<li><a href="mailto:%20Marc.Brett@westgeo.com">Marc Brett <Marc.Brett@westgeo.com></a> Magnavox GPS clock driver</li>

<li><a href="mailto:%20Piete.Brooks@cl.cam.ac.uk">Piete Brooks <Piete.Brooks@cl.cam.ac.uk></a> MSF clock driver, Trimble PARSE support</li>

<li><a href="mailto:%20nelson@bolyard.me">Nelson B Bolyard <nelson@bolyard.me></a> update and complete broadcast and crypto features in snpt</li>

<li><a href="mailto:%20Jean-Francois.Boudreault@viagenie.qc.ca">Jean-Francois Boudreault <Jean-Francois.Boudreault@viagenie.qc.ca></a> IPv6 support</li>

<li><a href="mailto:%20reg@dwf.com">Reg Clemens <reg@dwf.com></a> Oncore driver (Current maintainer)</li>

<li><a href="mailto:%20clift@ml.csiro.au">Steve Clift <clift@ml.csiro.au></a> OMEGA clock driver</li>

<li><a href="mailto:%20casey@csc.co.za">Casey Crellin <casey@csc.co.za></a> vxWorks (Tornado) port and help with target configuration</li>

<li><a href="mailto:%20Sven\_Dietrich@trimble.COM">Sven Dietrich <sven\_dietrich@trimble.com></a> Palisade reference clock driver, NT adj. residuals, integrated Greg's Winnt port.</li>

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<li><a href="mailto:%20duwe@immd4.informatik.uni-erlangen.de">Torsten Duwe <duwe@immd4.informatik.uni-erlangen.de></a> Linux port</li>

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<li><a href="mailto:%20jagubox.gsfc.nasa.gov">Jim Jagielski <jim@jagubox.gsfc.nasa.gov></a> A/UX port</li>

<li><a href="mailto:%20jbj@chatham.usdesign.com">Jeff Johnson <jbj@chatham.usdesign.com></a> massive prototyping overhaul</li>

<li><a href="mailto:%20Hans.Lambermont@nl.origin-it.com">Hans Lambermont <Hans.Lambermont@nl.origin-it.com></a> or <a href="mailto:H.Lambermont@chello.nl"><H.Lambermont@chello.nl></a> ntp sweep</li>

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<li><a href="http://www4.informatik.uni-erlangen.de/%7ekardel">Frank Kardel</a> <a href="mailto:%20kardel%20%28at%29%20ntp%20%28dot%29%20org"><kardel (at) ntp (dot) org></a> PARSE <GENERIC> (driver 14 reference clocks), STREAMS modules for PARSE, support scripts, syslog cleanup, dynamic interface handling</li>

<li><a href="mailto:kuehn@ntp.org">Johannes Maximilian Kuehn <kuehn@ntp.org></a> Rewrote <tt>snpt</tt> to comply with NTPv4 specification, <tt>ntp saveconfig</tt></li>

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<li><a href="mailto:%20louie@ni.umd.edu">Louis A. Mamakos <louie@ni.umd.edu></a> MD5-based authentication</li>  
<li><a href="mailto:%20thorinn@diku.dk">Lars H. Mathiesen <thorinn@diku.dk></a> adaptation of foundation code for Version 3 as specified in RFC-1305</li>  
<li><a href="mailto:%20mayer@ntp.org">Danny Mayer <mayer@ntp.org></a> Network I/O, Windows Port, Code Maintenance</li>  
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<li><a href="mailto:%20neal@ntp.org">Rob Neal <neal@ntp.org></a> Bancomm refclock and config/parse code maintenance</li>  
<li><a href="mailto:%20Rainer.Pruy@informatik.uni-erlangen.de">Rainer Pruy <Rainer.Pruy@informatik.uni-erlangen.de></a> monitoring/trap scripts, statistics file handling</li>  
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<li><a href="mailto:%20mrapple@quack.kfu.com">Nick Sayer <mrapple@quack.kfu.com></a> SunOS streams modules</li>  
<li><a href="mailto:%20jack@innovativeinternet.com">Jack Sasportas <jack@innovativeinternet.com></a> Saved a Lot of space on the stuff in the html/pic/ subdirectory</li>  
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<li><a href="mailto:%20ken@sdd.hp.com">Kenneth Stone <ken@sdd.hp.com></a> HP-UX port</li>  
<li><a href="mailto:%20ajit@ee.udel.edu">Ajit Thyagarajan <ajit@ee.udel.edu></a> IP multicast/anycast support</li>  
<li><a href="mailto:%20tsuruoka@nc.fukuoka-u.ac.jp">Tomoaki TSURUOKA <tsuruoka@nc.fukuoka-u.ac.jp></a> TRAK clock driver</li>  
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<li><a href="mailto:%20vixie@vix.com">Paul A Vixie <vixie@vix.com></a> TrueTime GPS driver, generic  
TrueTime clock driver</li>  
<li><a href="mailto:%20Ulrich.Windl@rz.uni-regensburg.de">Ulrich Windl <Ulrich.Windl@rz.uni-  
regensburg.de></a> corrected and validated HTML documents according to the HTML DTD</li>  
</ol>  
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</html>  
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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>

<h3>Copyright Notice</h3>

 "Clone me," says Dolly sheepishly.

<p>Last update:

<!-- #BeginDate format:En2m -->2-Jan-2017 11:58<!-- #EndDate -->

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- <li><a href="mailto:%20mark\_andrews@isc.org">Mark Andrews <mark\_andrews@isc.org></a> Leitch atomic clock controller</li>
- <li><a href="mailto:%20altmeier@atsoft.de">Bernd Altmeier <altmeier@atsoft.de></a> hopf Elektronik serial line and PCI-bus devices</li>
- <li><a href="mailto:%20vbais@mailman1.intel.com">Viraj Bais <vbais@mailman1.intel.com></a> and <a href="mailto:%20kirkwood@striderfm.intel.com">Clayton Kirkwood <kirkwood@striderfm.intel.com></a> port to WindowsNT 3.5</li>
- <li><a href="mailto:%20michael.barone@lmco.com">Michael Barone <michael,barone@lmco.com></a> GPSVME fixes</li>
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- <li><a href="mailto:%20greg.brackley@bigfoot.com">Greg Brackley <greg.brackley@bigfoot.com></a> Major rework of WINNT port. Clean up recvbuf and iosignal code into separate modules.</li>
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14. [15]Casey Crellin <casey@csc.co.za> vxWorks (Tornado) port and help with target configuration
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  33. [36]George Lindholm <lindholm@ucs.ubc.ca> SunOS 5.1 port
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  35. [38]Lars H. Mathiesen <thorinn@diku.dk> adaptation of foundation code for Version 3 as specified in RFC-1305
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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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Version 3, 29 June 2007

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Version 3, 29 June 2007

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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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## 1.274 openldap 2.4.45

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# 1.279 output-file-sync 1.1.2

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## 1.282 parse-asn1 5.1.1

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Written by: Philip Hazel  
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xmlns="http://www.w3.org/TR/xhtml1/transitional" class="navheader"><table width="100%"

summary="Navigation header"><tr><th colspan="5" align="center">33.12. Notice Processing</th></tr><tr><td

width="10%" align="left"><a accesskey="p" href="libpq-misc.html" title="33.11. Miscellaneous

Functions">Prev</a></td><td width="10%" align="left"><a accesskey="u" href="libpq.html"

title="Chapter33.libpq - C Library">Up</a></td><th width="60%" align="center">Chapter33.<span

xmlns="http://www.w3.org/1999/xhtml" class="application">libpq</span> - C Library</th><td width="10%" align="right"><a accesskey="h" href="index.html" title="PostgreSQL 10.3 Documentation">Home</a></td><td width="10%" align="right"><a accesskey="n" href="libpq-events.html" title="33.13.Event System">Next</a></td></tr></table><hr/></div><div class="sect1" id="LIBPQ-NOTICE-PROCESSING"><div class="titlepage"><div><div><h2 class="title" style="clear: both">33.12. Notice Processing</h2></div></div></div><a id="id-1.7.3.19.2" class="indexterm"></a><p> 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 `<code class="filename">stderr</code>`, 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 `<code class="function">PQsetNoticeReceiver</code>` [sets](#) or [examines](#) the current notice receiver for a connection object. Similarly, `<code class="function">PQsetNoticeProcessor</code>` [sets](#) or [examines](#) the current notice processor.

```
</pre><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 `<span class="application">libpq</span>`, 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:

```
static void
defaultNoticeProcessor(void *arg, const char *message)
{
    fprintf(stderr, "%s", message);
}
```

Once you have set a notice receiver or processor, you should expect that that function could be called as long as either the `PGconn` object or `PGresult` objects made from it exist. At creation of a `PGresult`, the `PGconn`'s current notice handling pointers are copied into the `PGresult` for possible use by functions like `PQgetvalue`.

---

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33.11. Miscellaneous Functions		
<a href="#">Home</a>	33.13. Event System	

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## 1.298 prompt-toolkit 1.0.15

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## 1.316 python 3.6.6



## 1.316.1 Available under license :

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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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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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2.1.1	2.1+2.0.1	2001	PSF	yes
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#### Mersenne Twister

-----

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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>

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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 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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Cookie management

-----

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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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test\_epoll

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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](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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```

## OpenSSL

-----

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----

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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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libmpdec

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

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

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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.

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#### Mersenne Twister

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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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Any feedback is very welcome.

<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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-----

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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/siphhash24/little](https://github.com/supercop/crypto_auth/siphhash24/little))

djb ([supercop/crypto\\_auth/siphhash24/little2](https://github.com/supercop/crypto_auth/siphhash24/little2))

Jean-Philippe Aumasson (<https://131002.net/siphhash/siphhash24.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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-----

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cfuhash

-----

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libmpdec

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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.

Just configure this file as the SSLCACertificateFile.#

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## 1.327 python-requests 2.11.1

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Requests includes some vendored python libraries to ease installation.

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## 1.338 Redis 3.2.12

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# 1.345 regexpu-core 2.0.0

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## 1.349 repeat-element 1.1.2

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# 1.356 rfc3987 1.3.7

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## 1.359 safe-buffer 5.1.2

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# 1.361 set-immediate-shim 1.0.1

# 1.362 setuptools 40.2.0

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## 1.363 setuptools 38.4.0

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## 1.364 sha.js 2.4.11

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## 1.365 simplegeneric 0.8.1 :1

## 1.366 six 1.11.0

# 1.367 slash 1.0.0

## 1.368 source-map 0.5.7

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## 1.369 source-map-support 0.4.18

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## 3de1687d7432ea9b302c2db9521996f506c140a

### 3

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## 1.372 strict-rfc3339 0.7

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## 1.373 string\_decoder 1.1.1

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```
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```

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



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## 1.376 sudo 1.8.21p2

### 1.376.1 Available under license :

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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, Piete  
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  
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Gailly, Jean-loup  
Gelman, Stephen  
Gerraty, Simon J.  
Graber, Stephane  
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Hayman, Randy M.  
Henke, Joachim  
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Holloway, Nick  
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Hutchings, Ben  
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Jorge, Joel Pele  
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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  
Larsen, Case  
Levin, Dmitry V.  
Libby, Kendall  
Lobbes, Phillip E.  
McIntyre, Jason  
MacKenzie, David J.  
McLaughlin, Tom  
Makey, Jeff  
Marchionna, Michael D.  
Markham, Paul  
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Meskes, Michael  
Michael, David  
Miller, Todd C.  
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Moldung, Jan Thomas  
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Mueller, Andreas  
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Nikitser, Peter A.  
Nussel, Ludwig

Ouellet, Jean-Philippe  
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Perera, Andres  
Peron, Christian S.J.  
Peschel, Aaron  
Peslyak, Alexander  
Peterson, Toby  
Petten, Diego Elio  
Pickett, Joel  
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de Raadt, Theo  
Rasch, Gudleik  
Reid, Steve  
Richards, Matt  
Rossum, Guido van  
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Rowe, William A., Jr.  
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Spradling, Cloyce D.  
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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  
Hamming, Peter  
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Kazik, Duan  
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Nikoli, Miroslav  
Nylander, Daniel  
Psa, Petr  
Qun, Trn Ngc  
Regueiro, Leandro  
Sarer, zgr  
Sendn, Abel  
Sikrom, ka  
Spingos, Dimitris  
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Uranga, Mikel Olasagasti  
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Wang, Wylmer

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

# 1.377 supports-color 2.0.0

## 1.377.1 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

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# 1.378 syslinux 6.03

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## 1.380 texttable 0.8.7



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# 1.382 traitlets 4.3.2

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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="""\
```

```
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```

```
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```

```
disclaimer=""
```



Twisted, the Framework of Your Internet

%s

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## 1.389 urllib3 1.24.1

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# Contributions to the urllib3 project

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\* Andrey Petrov <andrey.petrov@shazow.net>

## Contributors

In chronological order:

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\* 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
  
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- \* Bugfixes, suggestions, Requests integration
  
- \* georgemarshall <<https://github.com/georgemarshall>>
- \* Bugfixes, Improvements and Test coverage
  
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- \* 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@ravello systems.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](mailto:jaywink@basshero.org)>
- \* Add missing `WrappedSocket.fileno` method in `PyOpenSSL`
  
- \* Audrius Butkevicius <[audrius.butkevicius@elastichosts.com](mailto:audrius.butkevicius@elastichosts.com)>
- \* Fixed a race condition
  
- \* Stanislav Vitkovskiy <[stas.vitkovsky@gmail.com](mailto:stas.vitkovsky@gmail.com)>
- \* Added HTTPS (CONNECT) proxy support
  
- \* Stephen Holsapple <[sholsapp@gmail.com](mailto:sholsapp@gmail.com)>
- \* Added abstraction for granular control of request fields
  
- \* Martin von Gagern <[Martin.vGagern@gmx.net](mailto:Martin.vGagern@gmx.net)>
- \* Support for non-ASCII header parameters
  
- \* Kevin Burke <[kev@inburke.com](mailto:kev@inburke.com)> and Pavel Kirichenko <[juanych@yandex-team.ru](mailto:juanych@yandex-team.ru)>
- \* Support for separate connect and request timeouts
  
- \* Peter Waller <[p@pwaller.net](mailto:p@pwaller.net)>
- \* `HTTPResponse.tell()` for determining amount received over the wire
  
- \* Nipunn Koorapati <[nipunn1313@gmail.com](mailto: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](mailto:roman.bogorodskiy@ericsson.com)>
- \* Account retries on proxy errors
  
- \* Nicolas Delaby <[nicolas.delaby@ezeep.com](mailto: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](mailto:graffatcolmingov@gmail.com)>
- \* PEP8 Compliance and Linting
- \* Add ability to pass socket options to an HTTP Connection
  
- \* Erik Tollerud <[erik.tollerud@gmail.com](mailto:erik.tollerud@gmail.com)>
- \* Support for standard library io module.
  
- \* Krishna Prasad <[kprasad.iitd@gmail.com](mailto:kprasad.iitd@gmail.com)>
- \* Google App Engine documentation
  
- \* Aaron Meurer <[asmeurer@gmail.com](mailto:asmeurer@gmail.com)>
- \* Added Url.url, which unparses a Url
  
- \* Evgeny Kapun <[abacabadabacaba@gmail.com](mailto:abacabadabacaba@gmail.com)>
- \* Bugfixes
  
- \* Benjamin Meyer <[bm\\_witness@yahoo.com](mailto:bm_witness@yahoo.com)>
- \* Security Warning Documentation update for proper capture
  
- \* Shivan Sornarajah <[github@sornars.com](mailto:github@sornars.com)>
- \* Support for using ConnectionPool and PoolManager as context managers.
  
- \* Alex Gaynor <[alex.gaynor@gmail.com](mailto:alex.gaynor@gmail.com)>
- \* Updates to the default SSL configuration
  
- \* Tomas Tomecek <[ttomecek@redhat.com](mailto: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](mailto:ddriddle@illinois.edu)>
- \* IPv6 bugfixes in testsuite
  
- \* Thea Flowers <[magicalgirl@google.com](mailto: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](mailto: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](mailto:jayvdb@gmail.com)>
  - \* Python 2.6 fixes; pyflakes and pep8 compliance
  
- \* Andy Caldwell <[andy.m.caldwell@gmail.com](mailto:andy.m.caldwell@gmail.com)>
  - \* Bugfix related to reusing connections in indeterminate states.
  
- \* Ville Skytt <[ville.skytta@iki.fi](mailto:ville.skytta@iki.fi)>
  - \* Logging efficiency improvements, spelling fixes, Travis config.
  
- \* Shige Takeda <[smtakeda@gmail.com](mailto:smtakeda@gmail.com)>
  - \* Started Recipes documentation and added a recipe about handling concatenated gzip data in HTTP response
  
- \* Jesse Shapiro <[jesse@jesseshapiro.net](mailto: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](mailto:jeremy@jcline.org)>
  - \* Added connection pool keys by scheme
  
- \* Aviv Palivoda <[palaviv@gmail.com](mailto:palaviv@gmail.com)>
  - \* History list to Retry object.
  - \* HTTPResponse contains the last Retry object.
  
- \* Nate Prewitt <[nate.prewitt@gmail.com](mailto: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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## 1.391 util-deprecate 1.0.2

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```
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*sS|11np#_(~*u7gi){IgYZ
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```

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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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## 1.398 webpack-jquery-ui 2.0.1

# 1.399 websocket-client 0.40.0

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websocket - WebSocket client library for Python

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For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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## 1.400 websocket-client 0.47.0

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```
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## 1.407 zeep 2.5.0

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Parts of the XSD handling are heavily inspired by soapfish, see: <https://github.com/FlightDataServices/soapfish>

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