GNU LIBRARY GENERAL PUBLIC LICENSE

==================================

Version 2, June 1991

Copyright (C) 1991 Free Software Foundation, Inc.

675 Mass Ave, Cambridge, MA 02139, USA

Everyone is permitted to copy and distribute verbatim copies

of this license document, but changing it is not allowed.

[This is the first released version of the library GPL. It is

numbered 2 because it goes with version 2 of the ordinary GPL.]

Preamble

The licenses for most software are designed to take away your

freedom to share and change it. By contrast, the GNU General

Public Licenses are intended to guarantee your freedom to share

and change free software--to make sure the software is free for

all its users.

This license, the Library General Public License, applies to

some specially designated Free Software Foundation software, and

to any other libraries whose authors decide to use it. You can

use it for your libraries, too.

When we speak of free software, we are referring to freedom, not

price. Our General Public Licenses are designed to make sure

that you have the freedom to distribute copies of free software

(and charge for this service if you wish), that you receive

source code or can get it if you want it, that you can change

the software or use pieces of it in new free programs; and that

you know you can do these things.

To protect your rights, we need to make restrictions that forbid

anyone to deny you these rights or to ask you to surrender the

rights. These restrictions translate to certain responsibilities

for you if you distribute copies of the library, or if you

modify it.

For example, if you distribute copies of the library, whether

gratis or for a fee, you must give the recipients all the rights

that we gave you. You must make sure that they, too, receive or

can get the source code. If you link a program with the

library, you must provide complete object files to the

recipients so that they can relink them with the library, after

making changes to the library and recompiling it. And you must

show them these terms so they know their rights.

Our method of protecting your rights has two steps: (1)

copyright the library, and (2) offer you this license which

gives you legal permission to copy, distribute and/or modify the

library.

Also, for each distributor's protection, we want to make certain

that everyone understands that there is no warranty for this

free library. If the library is modified by someone else and

passed on, we want its recipients to know that what they have is

not the original version, so that any problems introduced by

others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software

patents. We wish to avoid the danger that companies

distributing free software will individually obtain patent

licenses, thus in effect transforming the program into

proprietary software. To prevent this, we have made it clear

that any patent must be licensed for everyone's free use or not

licensed at all.

Most GNU software, including some libraries, is covered by the

ordinary GNU General Public License, which was designed for

utility programs. This license, the GNU Library General Public

License, applies to certain designated libraries. This license

is quite different from the ordinary one; be sure to read it in

full, and don't assume that anything in it is the same as in the

ordinary license.

The reason we have a separate public license for some libraries

is that they blur the distinction we usually make between

modifying or adding to a program and simply using it. Linking a

program with a library, without changing the library, is in some

sense simply using the library, and is analogous to running a

utility program or application program. However, in a textual

and legal sense, the linked executable is a combined work, a

derivative of the original library, and the ordinary General

Public License treats it as such.

Because of this blurred distinction, using the ordinary General

Public License for libraries did not effectively promote

software sharing, because most developers did not use the

libraries. We concluded that weaker conditions might promote

sharing better.

However, unrestricted linking of non-free programs would deprive

the users of those programs of all benefit from the free status

of the libraries themselves. This Library General Public

License is intended to permit developers of non-free programs to

use free libraries, while preserving your freedom as a user of

such programs to change the free libraries that are incorporated

in them. (We have not seen how to achieve this as regards

changes in header files, but we have achieved it as regards

changes in the actual functions of the Library.) The hope is

that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and

modification follow. Pay close attention to the difference

between a "work based on the library" and a "work that uses the

library". The former contains code derived from the library,

while the latter only works together with the library.

Note that it is possible for a library to be covered by the

ordinary General Public License rather than by this special one.

GNU LIBRARY GENERAL PUBLIC LICENSE

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library which

contains a notice placed by the copyright holder or other

authorized party saying it may be distributed under the terms of

this Library General Public License (also called "this

License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data

prepared so as to be conveniently linked with application

programs (which use some of those functions and data) to form

executables.

The "Library", below, refers to any such software library or

work which has been distributed under these terms. A "work

based on the Library" means either the Library or any derivative

work under copyright law: that is to say, a work containing the

Library or a portion of it, either verbatim or with

modifications and/or translated straightforwardly into another

language. (Hereinafter, translation is included without

limitation in the term "modification".)

"Source code" for a work means the preferred form of the work

for making modifications to it. For a library, complete source

code means all the source code for all modules it contains, plus

any associated interface definition files, plus the scripts used

to control compilation and installation of the library.

Activities other than copying, distribution and modification are

not covered by this License; they are outside its scope. The

act of running a program using the Library is not restricted,

and output from such a program is covered only if its contents

constitute a work based on the Library (independent of the use

of the Library in a tool for writing it). Whether that is true

depends on what the Library does and what the program that uses

the Library does.

1. You may copy and distribute verbatim copies of the Library's

complete source code as you receive it, in any medium, provided

that you conspicuously and appropriately publish on each copy an

appropriate copyright notice and disclaimer of warranty; keep

intact all the notices that refer to this License and to the

absence of any warranty; and distribute a copy of this License

along with the Library.

You may charge a fee for the physical act of transferring a

copy, and you may at your option offer warranty protection in

exchange for a fee.

2. You may modify your copy or copies of the Library or any

portion of it, thus forming a work based on the Library, and

copy and distribute such modifications or work under the terms

of Section 1 above, provided that you also meet all of these

conditions:

a) The modified work must itself be a software library.

b) You must cause the files modified to carry prominent notices

stating that you changed the files and the date of any change.

c) You must cause the whole of the work to be licensed at no

charge to all third parties under the terms of this License.

d) If a facility in the modified Library refers to a function or a

table of data to be supplied by an application program that uses

the facility, other than as an argument passed when the facility

is invoked, then you must make a good faith effort to ensure that,

in the event an application does not supply such function or

table, the facility still operates, and performs whatever part of

its purpose remains meaningful.

(For example, a function in a library to compute square roots has

a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must

be optional: if the application does not supply it, the square

root function must still compute square roots.)

These requirements apply to the modified work as a whole. If

identifiable sections of that work are not derived from the

Library, and can be reasonably considered independent and

separate works in themselves, then this License, and its terms,

do not apply to those sections when you distribute them as

separate works. But when you distribute the same sections as

part of a whole which is a work based on the Library, the

distribution of the whole must be on the terms of this License,

whose permissions for other licensees extend to the entire

whole, and thus to each and every part regardless of who wrote

it.

Thus, it is not the intent of this section to claim rights or

contest your rights to work written entirely by you; rather, the

intent is to exercise the right to control the distribution of

derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the

Library with the Library (or with a work based on the Library)

on a volume of a storage or distribution medium does not bring

the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General

Public License instead of this License to a given copy of the

Library. To do this, you must alter all the notices that refer

to this License, so that they refer to the ordinary GNU General

Public License, version 2, instead of to this License. (If a

newer version than version 2 of the ordinary GNU General Public

License has appeared, then you can specify that version instead

if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for

that copy, so the ordinary GNU General Public License applies to

all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of

the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or

derivative of it, under Section 2) in object code or executable

form under the terms of Sections 1 and 2 above provided that you

accompany it with the complete corresponding machine-readable

source code, which must be distributed under the terms of

Sections 1 and 2 above on a medium customarily used for software

interchange.

If distribution of object code is made by offering access to

copy from a designated place, then offering equivalent access to

copy the source code from the same place satisfies the

requirement to distribute the source code, even though third

parties are not compelled to copy the source along with the

object code.

5. 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.

6. As an exception to the Sections above, you may also compile

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:

a) 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.)

b) Accompany the work with a written offer, valid for at

least three years, to give the same user the materials

specified in Subsection 6a, above, for a charge no more

than the cost of performing this distribution.

c) If distribution of the work is made by offering access to copy

from a designated place, offer equivalent access to copy the above

specified materials from the same place.

d) Verify that the user has already received a copy of these

materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the

Library" must include any data and utility programs needed for

reproducing the executable from it. However, as a special

exception, the source code distributed need not include anything

that is normally distributed (in either source or binary form)

with the major components (compiler, kernel, and so on) of the

operating system on which the executable runs, unless that

component itself accompanies the executable.

It may happen that this requirement contradicts the license

restrictions of other proprietary libraries that do not normally

accompany the operating system. Such a contradiction means you

cannot use both them and the Library together in an executable

that you distribute.

7. You may place library facilities that are a work based on the

Library side-by-side in a single library together with other

library facilities not covered by this License, and distribute

such a combined library, provided that the separate distribution

of the work based on the Library and of the other library

facilities is otherwise permitted, and provided that you do

these two things:

a) 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.

b) 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.

8. You may not copy, modify, sublicense, link with, or

distribute the Library except as expressly provided under this

License. Any attempt otherwise to copy, modify, sublicense,

link with, or distribute the Library is void, and will

automatically terminate your rights under this License.

However, parties who have received copies, or rights, from you

under this License will not have their licenses terminated so

long as such parties remain in full compliance.

9. You are not required to accept this License, since you have

not signed it. However, nothing else grants you permission to

modify or distribute the Library or its derivative works. These

actions are prohibited by law if you do not accept this

License. Therefore, by modifying or distributing the Library

(or any work based on the Library), you indicate your acceptance

of this License to do so, and all its terms and conditions for

copying, distributing or modifying the Library or works based on

it.

10. Each time you redistribute the Library (or any work based on

the Library), the recipient automatically receives a license

from the original licensor to copy, distribute, link with or

modify the Library subject to these terms and conditions. You

may not impose any further restrictions on the recipients'

exercise of the rights granted herein. You are not responsible

for enforcing compliance by third parties to this License.

11. If, as a consequence of a court judgment or allegation of

patent infringement or for any other reason (not limited to

patent issues), conditions are imposed on you (whether by court

order, agreement or otherwise) that contradict the conditions of

this License, they do not excuse you from the conditions of this

License. If you cannot distribute so as to satisfy

simultaneously your obligations under this License and any other

pertinent obligations, then as a consequence you may not

distribute the Library at all. For example, if a patent license

would not permit royalty-free redistribution of the Library by

all those who receive copies directly or indirectly through you,

then the only way you could satisfy both it and this License

would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable

under any particular circumstance, the balance of the section is

intended to apply, and the section as a whole is intended to

apply in other circumstances.

It is not the purpose of this section to induce you to infringe

any patents or other property right claims or to contest

validity of any such claims; this section has the sole purpose

of protecting the integrity of the free software distribution

system which is implemented by public license practices. Many

people have made generous contributions to the wide range of

software distributed through that system in reliance on

consistent application of that system; it is up to the

author/donor to decide if he or she is willing to distribute

software through any other system and a licensee cannot impose

that choice.

This section is intended to make thoroughly clear what is

believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted

in certain countries either by patents or by copyrighted

interfaces, the original copyright holder who places the Library

under this License may add an explicit geographical distribution

limitation excluding those countries, so that distribution is

permitted only in or among countries not thus excluded. In such

case, this License incorporates the limitation as if written in

the body of this License.

13. The Free Software Foundation may publish revised and/or new

versions of the Library General Public License from time to

time. Such new versions will be similar in spirit to the present

version, but may differ in detail to address new problems or

concerns.

Each version is given a distinguishing version number. If the

Library specifies a version number of this License which applies

to it and "any later version", you have the option of following

the terms and conditions either of that version or of any later

version published by the Free Software Foundation. If the

Library does not specify a license version number, you may

choose any version ever published by the Free Software

Foundation.

14. If you wish to incorporate parts of the Library into other

free programs whose distribution conditions are incompatible

with these, write to the author to ask for permission. For

software which is copyrighted by the Free Software Foundation,

write to the Free Software Foundation; we sometimes make

exceptions for this. Our decision will be guided by the two

goals of preserving the free status of all derivatives of our

free software and of promoting the sharing and reuse of software

generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO

WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW.

EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR

OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND,

EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE

IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR

PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE

LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME

THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN

WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY

AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU

FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL

DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE

LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING

RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A

FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF

SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the

greatest possible use to the public, we recommend making it free

software that everyone can redistribute and change. You can do

so by permitting redistribution under these terms (or,

alternatively, under the terms of the ordinary General Public

License).

To apply these terms, attach the following notices to the

library. It is safest to attach them to the start of each

source file to most effectively convey the exclusion of

warranty; and each file should have at least the "copyright"

line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or

modify it under the terms of the GNU Library General Public

License as published by the Free Software Foundation; either

version 2 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful,

but WITHOUT ANY WARRANTY; without even the implied warranty of

MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU

Library General Public License for more details.

You should have received a copy of the GNU Library General Public

License along with this library; if not, write to the Free

Software Foundation, Inc., 675 Mass Ave, Cambridge, MA 02139, USA.

Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your

school, if any, to sign a "copyright disclaimer" for the library, if

necessary. Here is a sample; alter the names:

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

library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990

Ty Coon, President of Vice

That's all there is to it!