



Table of Contents

1. Introduction
 1. History
 2. Code Names
2. Do you want to support SimpleRSS?
3. What's new in version 0.4
4. SimpleRSS Guides
 1. Languages in SimpleRSS
 2. How I Use SimpleRSS
 3. The BDN guide to RSS
5. Credits
6. The fine print
 1. The LGPL
 2. Creative Commons Attribution License

(1) Introduction

Welcome to SimpleRSS, the premier free feed component for all developers. SimpleRSS is used to import, export and work with RSS, Atom, RDF, and iTunes feeds in a method that is simple for anyone to use. SimpleRSS is also 100% free for use in open source AND commercial applications.

(1.1) History

SimpleRSS was started as a component for use in a aggregator application I was writing in 2003. Originally it made use of TSimpleXML (from JEDI – Joint Endeavour of Delphi Innovators). Version 0.1 was released with SourceForge in 2003 to the public. With version 0.2 TSimpleXML was replaced with TXMLDocument. The 3 main reasons for this were:

- 1) Availability to use more advanced XML features, not supported in TSimpleXML
- 2) To provide SimpleRSS to more developers, by removing TSimpleXML and it's licensing requirements.
- 3) To make it even simpler to use (no need to install the Jedi VCL first).

(1.2) Code Names

SimpleRSS Version 0.3 Code Named Echo. No idea why any more
SimpleRSS Version 0.3.x Code Named Knowledge. I got the chance to ask Robert Scoble from Microsoft, what in one word described RSS and his answer was knowledge.
SimpleRSS Version 0.4 Code Named BlueHippo. I have a plush blue hippo that sits on my desk

and provides much needed laughter every so often.

SimpleRSS can be found at <http://simplerss.sourceforge.net>. SimpleRSS is written in Borland Delphi.

(2) Do you want to support SimpleRSS?

If you find use of SimpleRSS and would like to support SimpleRSS please look at participating in one of the following:

- There are positions open for people to join the SimpleRSS team. So if you have any skills (developer, writer, web designer etc...) why not check out the jobs page and see if you can jump in and help.
- We are always looking for new tutorials, guides or applications that show or explain features or abilities with SimpleRSS.
- Give us suggestions for new features or ideas you would like implemented.
- Spread the word about SimpleRSS by placing the button/logo in your applications or on your website or just by telling people.
- We are accepting donations via the SourceForge project page.

(3) Whats new in version 0.4?

Please see the included changelog.txt for all the details.

(4) SimpleRSS Guides

These are a collection of guides and tutorials for using SimpleRSS that have been reproduced here in a central location so you can simply find what you need.

(4.1) Languages in SimpleRSS

by Robert MacLean

(Original can be found at <http://www.sadev.co.za> reproduced here with permission)

The RSS documents state give an optional element named language which can specify the language of the RSS feed. The language must be either from the list provided by Netscape (see it [http://blogs.law.harvard.edu/tech/stories/storyReader\\$15](http://blogs.law.harvard.edu/tech/stories/storyReader$15)) or a value as defined by the W3C (see that <http://www.w3.org/TR/REC-html40/struct/dirlang.html#langcodes>)

In SimpleRSS 0.1 it was handled via a string field that you could use to set or get the value. With SimpleRSS 0.2 this changed to a simpler method (especially if you do not what the feed wants) and also a more robust method for handling in code, this was done by having preset values that you can select from.

The format of the name of the value indicates what it will be. ie: lang_EN is en, lang_EN_US is en-us and so on. By default the language is set to lang_EN.

So what of the W3C options or if you need something special? Or what if you import a feed that is wrong how can you check the language then? To do these sort of things there is an option named langX. When langX is set the value from a feed (or the special value you want to set) is handled by the property of the component named XLang.

ie if you needed to have the language set to en-xx you would set the language property to langX and then put en-xx into the XLang property.

(4.2) How I use SimpleRSS

By Robert MacLean

(Original can be found at <http://www.sadev.co.za> reproduced here with permission)

The site www.sadev.co.za includes a few RSS feeds (see the valid RSS button at the bottom). There is one for the blog, downloads, gallery in fact every single section has one.

So how did I code them using the great component SimpleRSS?

Well firstly there was the preparation which included getting my database (which is MySQL) going, once that was done I had to setup the Apache shared object to connect to it and lastly hard coding some things in (like the feed name, and description which I did via the Kylix IDE).

Once that was done it was time to code.

First up was clearing the component for each request (remember Apache shared objects are like ISAPI and everything should be cleared on each request). The issue here is I did not want to clear the whole component, just the items (so I did not waste that nice hard coding). This is easily done with the SimpleRSS.Items.Clear;

Next up I did my DB select and using the normal TCollection method (since the SimpleRSS.Items is just a TCollection) of Add I added my items.

```
sqldtMain.CommandText := 'SELECT strTitle, strID, dtAdded, strAuthor,
txtMessage FROM tblBlog ORDER BY dtAdded DESC';
sqldtmain.open;
if not sqldtmain.isempty then
begin
    sqldtmain.first;
    while not sqldtmain.eof do
    begin
        rssitem := rss.items.add;
        rssitem.title := httpdecode(sqldtmain.fieldbyname('strtitle').
asstring);
        rssitem.link :=
'http://www.sadev.co.za/viewblog?id='+sqldtmain.fieldbyname('strid').
asstring;
        rssitem.description := httpdecode(sqldtmain.fieldbyname
('txtmessage').asstring);
        rssitem.author := httpdecode(sqldtmain.fieldbyname('strauthor').
asstring);
        rssitem.guid.ispermalink := true;
        rssitem.guid.include := true;
        rssitem.guid.guid :=
'http://www.sadev.co.za/viewblog?id='+sqldtmain.fieldbyname('strid').
asstring;
        rssitem.pubdate.datetime := sqldtmain.fieldbyname('dtadded').
asfloat;
        rssitem.pubdate.timezone := 'gmt+2';
        sqldtmain.next;
    end; // while not do
end; // if else
```

The Last thing that has to happen is we need to send the response to the browser. This is the easiest part of all:

```
Response.Content := RSS.SaveToString;
```

(4.3) The BDN Guide To RSS

By Craig Stuntz

(Original can be found at <http://bdn.borland.com/article/0,1410,31981,00.html>
reproduced here with permission)

Introduction

BDN now features RSS (Really Simple Syndication) [feeds](#) for BDN News, [CodeCentral](#) submissions, and [QualityCentral](#) reports. This article explains what RSS is, how to use it, and how you can use it in your own applications. If you're already using an RSS aggregator, start by subscribing to the [feeds](#) which interest you, then skip ahead to [the section on using RSS in your own applications](#). If you've never heard of RSS, read on!

RSS for Beginners

The purpose of RSS is to make it easy to find recent content which is interesting to you. Usually "content" means web pages, but, as demonstrated by the CodeCentral and QualityCentral feeds, almost anything which can be described with a paragraph or so of text and a URL is fair game. If you visit several different web sites each day looking for new articles, that can be a fairly time-consuming process. RSS feeds allow you to skim multiple sources for items of interest without having to visit multiple sites.

Most people use RSS feeds by running a program called an aggregator, so named because it combines the information from multiple feeds into a list of recently published items. The easiest way to get the feel for what you can do with RSS feeds is to use an aggregator. Here are a few you might want to try, in alphabetical order:

- [AmphetaDesk](#) is written in Perl, and acts as a local web server. You connect with your browser.
- [BlogLines](#) is an online aggregator. Membership is presently free.
- [FeedDemon](#) is a Windows aggregator, written in Delphi.
- If you don't like any of these, a [Google search for "rss aggregator"](#) yields many more choices. Or you can [write your own](#).

BlogLines is probably the easiest way to get started as it requires neither a download nor installation, but some people will prefer a Windows client such as FeedDemon. AmphetaDesk's biggest strength is its ease of customization (for those familiar with Perl, anyway).

Once you've picked an aggregator to try, add a feed, such as the [feed](#) from [my weblog](#) or one of the [BDN feeds](#). When you visit your favorite web sites, look for the little red XML button, like the one on the left-hand side of [my weblog](#). This button means that an RSS feed is available.

The aggregator will download the RSS files from each site you track every hour or so, and combine the feeds for display. You can quickly skim the new items and read the articles which interest you. This works especially well if you use a browser which supports tabbed browsing, such as [Mozilla Firebird](#), as you can open each interesting article in a new tab as you skim through the list and then close the tabs after you've read each article.

That's really all there is to it. RSS lives up to the "Really Simple" part of its name, at least when it comes to reading feeds with a commercial aggregator. It makes keeping track of what's new on the web and elsewhere easier.

OPML

[Outline Processor Markup Language](#) (OPML) is an XML dialect designed to store information in outline or tree-structured form. It's useful in the context of RSS since a number of RSS aggregators use this format to store subscriptions to RSS channels. If your aggregator supports OPML documents you can easily exchange a large number of RSS subscriptions with users of many other aggregators.

You can subscribe to all of the Borland RSS feeds at once using [this OPML document](#).

Programming with RSS

RSS is more or less an XML dialect. I say "more or less" because there is no official XSD for it ([although some have tried](#)) and because a number of sites produces RSS that follows the rules of neither RSS nor XML. This means that if your application intends to consume RSS generated by persons unknown in the wilds of the internet, you must be prepared to deal with some less-than-compliant documents. Since non-well-formed documents may be summarily rejected by an off-the-shelf DOM, some authors resort to writing their own parsers.

An additional problem for applications consuming RSS feeds is that there are multiple, [not-entirely-compatible](#) versions of the RSS specification. A good aggregator needs to be able to handle all of them.

Producing RSS documents, on the other hand, can be done quite readily with components such as TXMLDocument in Delphi. You can use TXMLDocument directly, but I wrote a simple RSS component in less than half an hour using a sample RSS document, Delphi's XML Data Binding Wizard, and Indy, which makes working with RSS documents much easier. I haven't released it to the public, mostly because Robert MacLean offers a [free component](#) which also uses TXMLDocument, but adds more bells and whistles.

For details, such as they are, on how to use each tag in the document, read the [RSS 2.0 specification](#). It's a bit vague in places — for example, it gives conflicting advice on how to use the permalink tag — so when publishing RSS it's a good idea to test your feeds with a variety of popular aggregators.

Sample RSS Projects in CodeCentral

- From John Moshakis, an [ASP.NET application](#) (written in Delphi for .NET) which serves blog entries and includes an RSS feed.
- From Chris Dickerson, a Delphi for .NET [RSS aggregator](#).

Open Source RSS Projects on SourceForge

- [FeedReader](#) is an open source Windows aggregator.
- As I mentioned above, Robert MacLean's [SimpleRSS component](#) is a Delphi component for consuming and producing RSS feeds.

Alternative Formats

Two other XML dialects are worth mentioning: Atom and RDF.

Atom

[Atom](#) is an alternative to RSS which was [born out of frustration with ambiguities in the RSS specification](#). Atom is "pre-release" and much less popular than RSS at this point, but still widely supported (although BlogLines and FeedDemon, mentioned [above](#), both support it), and in general places much more emphasis on having an unambiguous and testable standard.

RDF

[RDF](#) is a newly-approved [W3C](#) standard which attempts a much broader scope than RSS. It's designed to allow cataloging just about anything, anywhere. As such, it's probably a better fit for non-news feeds such as CodeCentral entries, but the specification is brand new and not widely supported yet. Some early versions of RSS were compatible with RSS, but they are now very different and cannot be treated interchangeably.

(5) Credits

Extra Special thanks goes to

Borland for creating the best development language ever made!

<http://www.borland.com>

SourceForge for proving the SimpleRSS a home on the internet

<http://www.sourceforge.net>

Borlands newsgroups, in particluar the TeamB members and TObject (from borland.public.delphi.vcl.components.writing.dotnet).

nntp://news.borland.com

The guys behind RSS Validator

Craig Stuntz, for allowing me to reproduce his article and for the great mentions he has given SimpleRSS on his site (<http://delphi.weblogs.com/>) and in the article.

Bob Swart, for his wonderful article which help with creating the .Net Assembly and Win32 DLL. <http://www.drbob42.com>

Thomas Zangal for all his code, time and energy spent on SimpleRSS

(6) The fine print

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc.

59 Temple Place, Suite 330, Boston, MA 02111-1307 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 Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

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 Lesser General Public License, applies to some specially designated software packages--typically libraries--of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, 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 and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these 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 other code 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.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

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 free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

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.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

GNU LESSER GENERAL PUBLIC LICENSE TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser 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 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:

- 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) 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.
- c) 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.
- d) 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.
- e) 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 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 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 with 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 Lesser 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

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 Lesser General Public License as published by the Free Software Foundation; either version 2.1 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 Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 59 Temple Place, Suite 330, Boston, MA 02111-1307 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!