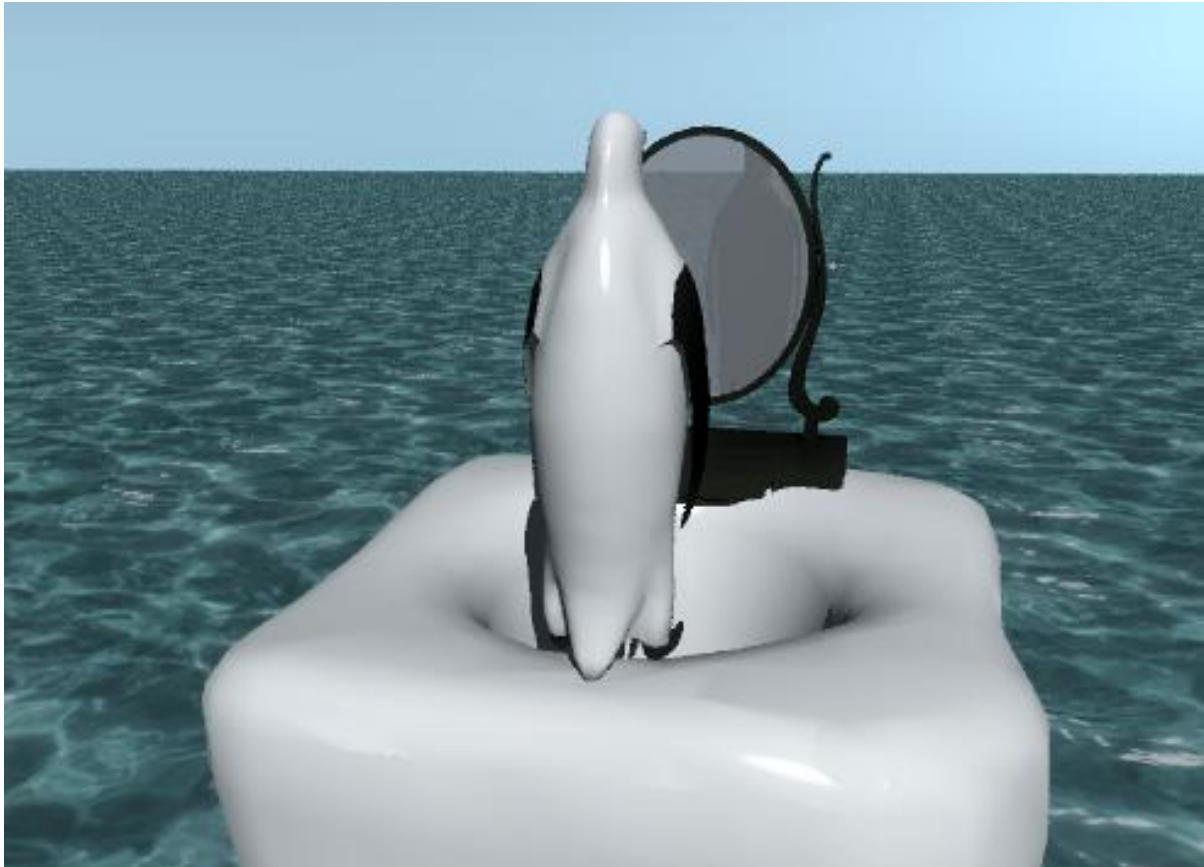


# Free Software Resources

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### [Rat and Mouse](#)

These days, you can find free software for just about anything. Note that not all of the software listed here is not strictly "[open source](#)", much less "free" in the sense defined by [Open Software Foundation](#).

[SourceForge](#) is a development repository. [Fresh Meat](#) is a comprehensive index of open-source software. The [Open Software Foundation](#) hosts the free (as in free speech) software.

## 1. Operating Systems

<a href="#">BSD</a>	<a href="#">BSD.org</a> , <a href="#">FreeBSD</a> , <a href="#">NetBSD</a> , <a href="#">OpenBSD</a> , <a href="#">DragonFlyBSD</a> ,
<a href="#">BeOS</a>	<a href="#">BeBits</a> , <a href="#">Haiku</a> , <a href="#">Cosmoe</a> , <a href="#">yellowTAB</a>
<a href="#">Darwin</a>	<a href="#">Open Darwin</a> , <a href="#">Darwin Ports</a> , <a href="#">Fink</a>

## 2. Databases

[MySQL](#). [PHPMysqlAdmin](#) is a web-based admin tool.

[Berkeley DB](#)



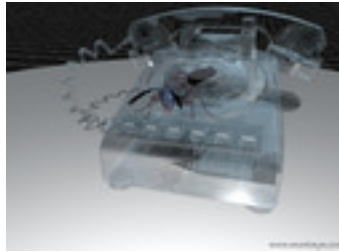
[PostgreSQL](#)

is a descendant of Ingres. Tools include [pgAdmin](#) and Python bindings [pyPgSQL](#).

[McKoi](#) is a relational database implemented in Java.

See the [Java/XML page](#) for Java and XML databases.

## 3. Telephony



[Rat and Mouse](#)

[Vovida](#) hosts a number of open source telephony projects. [Asterisk](#) is an open-source PBX. [Asterisk@Home](#) uses [Free PBX](#). [OpenSER](#) is an open-source SIP server. [voip-info.org](#) is a reference guide to all things VOIP.

## 4. Engineering

[Electric](#)

## 5. Science

[GEANT4](#) is a particle physics simulator. [BOINC](#) is used for grid computing projects such as



[SETI@Home](#)

[Join the fight. Join the grid!](#)

## 6. Software Development

For software development, [Tigris](#) has a number of useful projects, including [ArgoUML](#), A UML tool for software design and documentation, [Subversion](#), a replacement for [CVS](#) (the traditional source code repository for open source projects) and [ReadySET](#) a set of XHTML/CSS templates for project documentation.

The [Enterprise Linux](#) site includes a list of open-source bug tracking systems on their [project management](#) page. [Bugzilla](#) is a popular bug tracking system from the [Mozilla](#) project, but not easy to set up. The [Samba](#) project created [Jitterbug](#), but it's not actively maintained at the moment.

Real programmers use [Emacs](#), or variations such as



[XEmacs](#)

, or, on MacOSX, [Carbon Emacs](#) and [AquaEmacs](#).

Open source C/C++ compilers include [Open Watcom](#) and gcc supplied with [GnuWin32](#) and [Cygwin](#). To build Win32 code on non-Windows platforms, there is [MingW](#). The [Mono Project](#) is an open-source .NET implementation.

Other open source scripting languages include [Lua](#), [Python](#), [Ruby](#), [Tcl](#).

See the [Java Lisp](#) pages for respective open source implementations.

Build systems include [Scons](#) and [JAM](#) is available at the [Perforce Public Depot](#).

For [literate programming](#), you can use [Doxygen](#) Source code documentation system for C and C++. Generates HTML and other formats. [GraphViz](#) provides diagrams for Doxygen.

[Processing](#) is a great self-contained environment for introductory programming and graphics demos. [Squeak](#) is a complete Smalltalk environment. See the [Java/XML page](#) for Java and XML tools and the [Lisp page](#) for Lisp resources.

For packaging and installation tools, see [open source installers](#).

## 7. Multimedia



[Electric Guitar](#)



[SDL](#)

provides cross-platform access to the video framebuffer, audio output, mouse, keyboard and joysticks. [OpenAL](#) is a cross-platform 3D audio API. The [Xiph Foundation](#) promotes a number of open source multimedia projects including [Vorbis](#), [Theora](#), [Icecast](#), [Speex](#), and [Flac](#). [SoX](#) is the Swiss army knife of sound processing programs. [Max](#) is a Mac audio conversion tool.

See [Graphics Resources](#) for graphics libraries and API's.

## 8. Web Development



[World Wide Web](#)

The [Apache Group](#) develops the [Apache web server](#) and server-side [Java](#), and [XML](#) projects. [Heritrix](#) is the web crawler used by the [Internet Archive](#).

[Curl and libcurl](#) implement http and other web protocols.

Web access logs can be processed and viewed with [The Webalizer](#), [AWStats](#), [Analog](#), [Visitors](#).

[PHPBB](#) is a popular Bulletin-board implemented in [PHP](#)

J2EE servers include [JBoss](#), and the [Jonas](#) from [ObjectWeb](#).

Other [application servers](#) include [Enhydra](#) and [Zope](#), written in [Python](#).

Specialized servers include [Wordpress](#) for blogging and [TWiki](#) for wikis.

## 9. Desktop

Free browsers abound.



[Get Firefox](#)

or go minimal with [Dillo](#). [Webkit](#) is the engine of the Safari browser.

If you don't want to be held hostage by Microsoft Office, try the compatible



[Use OpenOffice.org](#)

and a version tailored for MacOSX, [NeoOffice](#).

[Buddhi](#) is a cross-platform budgeting program.

[7-Zip](#) is a zip compression/decompression utility for Windows.

The Unix virus scanner [ClamAV](#) is the basis of the Windows scanner [ClamWin](#) and the MacOSX scanner [ClamXAV](#).

GUI's for [OpenVPN](#) include [TunnelBlick](#) for MacOSX and an [OpenVPN GUI for Windows](#). SSH clients include [OpenSSH](#) and [PuTTY](#)

[WinCVS](#) provides a CVS Windows GUI. For Windows Explorer integration, look at [TortoiseSVN](#) and [TortoiseCVS](#). [WinMerge](#) is a good diff/merge utility that can be used in conjunction with these packages.

See [Graphics Resources](#) for open-source graphics tools.