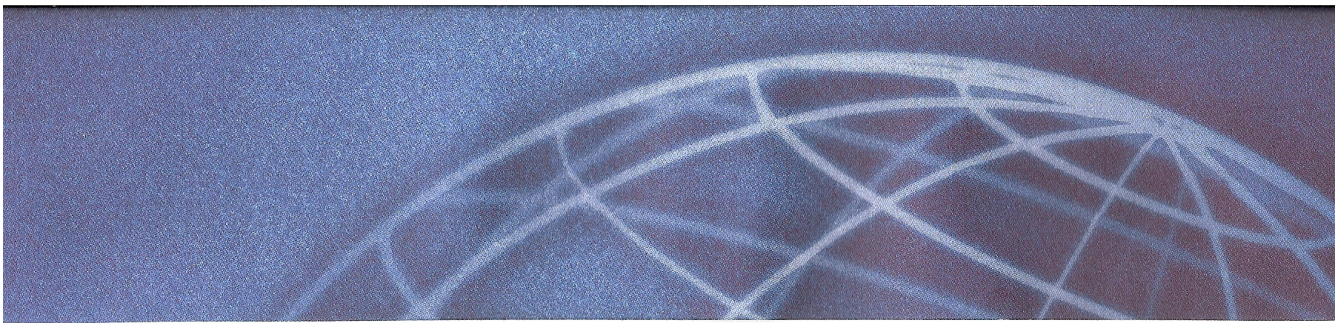
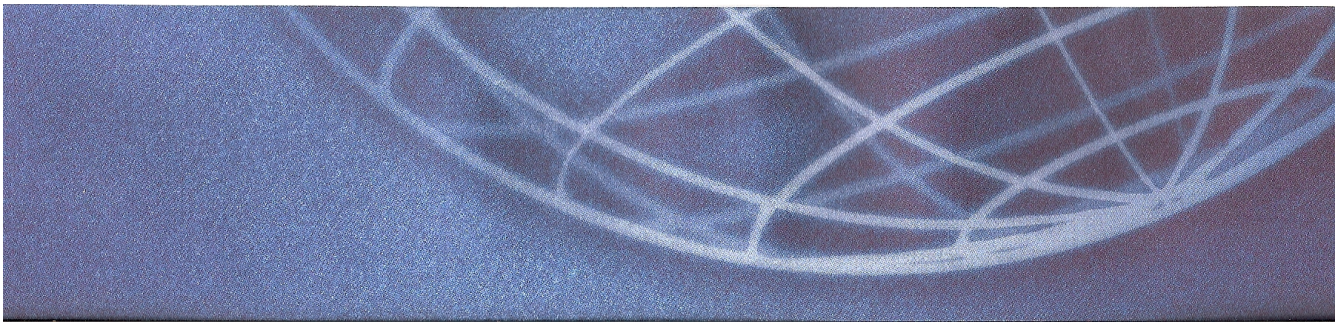


Free Software for Schools

Open Source Victoria
&
The National Center for
Open Source and Education



7.07

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Why Consider Open Source Software

There are a number of great reasons to use open source software, ranging from the fact that such software is totally free of license cost, that there are no restrictions in how often you can copy and install the software and that you gain access to software technology your school would not normally be able to afford. We list a few of these reasons here. By using Open Source software you can:

1. Save money - all the software is totally free.
2. Save time on license administration - you can install it on as many PCs as you want.
3. Legally copy and distribute software as many times as you like - you can make copies of it for colleagues.
4. Reduce your school's licensing liabilities - there is *no possibility* of piracy problems when you use open source.
5. Save your students money - your students can take all the software home with them, to install on their home PCs
6. Many open source applications are easy for Mac and Windows users to understand - there are over 100,000 open source applications available, including almost all of the common desktop productivity programs, so there is likely to be an application for most needs.
7. Upgrades are free and open source software generally has a very long life spans and is rarely ever made obsolete. This helps ensure your data and experience with the software stays meaningful for much longer,
8. Invest money elsewhere - the money you save for your school could be used to purchase new hardware or for teacher professional development.

How to Use this Catalog

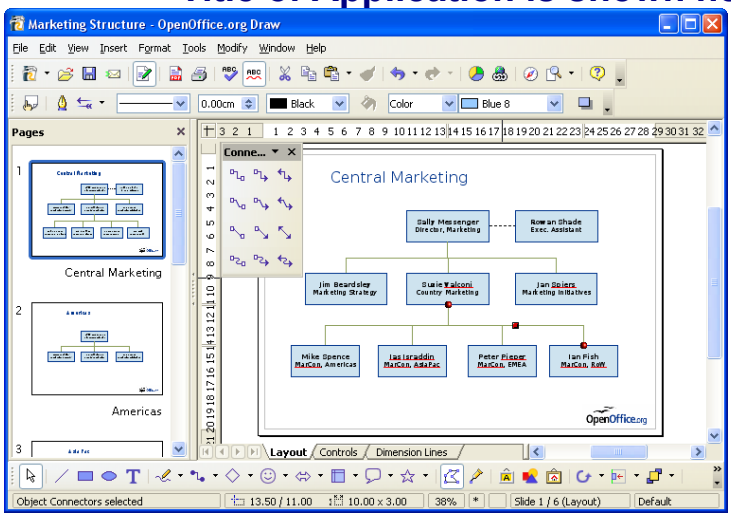
The majority of this document is a catalog of education-oriented applications, or applications which are potentially useful within an educational context. In order to make the best use of the catalog, it is important to understand what information it provides and how to find it.

The main catalog concerns itself with software which is of direct interest to schools, students and teachers. The catalog is segmented into broad categories, such as Office Productivity Applications, Graphics, Multimedia, Computer Programming, Early Learning and more.

Each software title is provided, along with a quick description, an indicative screenshot, and a web (URL) location with more information and from where that software application can be downloaded from. Additionally, the supported platforms (Windows, Mac and Linux) are are listed.

Here's an example:

Title of Application is shown here



Quick and simple overview of the application is shown here...

Which platforms the Application Supports

Windows **Mac OS** **Linux**

http://www.URLofApplication/

A Note on the Software

We makes this catalog available as an informational resource. We don't specifically endorse the quality or efficacy of the software for your needs or requirements.

Open Source Victoria

Open Source Victoria (OSV), an industry cluster funded by the Victorian State Government in Australia, has prepared the following report for the primary and secondary education sector. Within it, we have researched and provided a synopsis on a range of software which we believe will be beneficial to educators and students. We have also included a large list of other open source applications.

Specifically, our objectives are:

a) to increase the awareness of open source software amongst all Victorian schools,

b) to provide an easy mechanism for educators to review and select software,

c) to increase the understanding of the merits of open source Software amongst students of Information Technology courses in schools,

d) to help the education sector save money on software licenses, which could be re-deployed on hardware or staff professional development.

Open Source Victoria – The Organization

Open Source Victoria is an Industry Cluster consisting of over 80 Victorian firms and developers which provide services and technology related to Free and Open Source Software (FOSS.)

Open Source Victoria offers marketing, advocacy and information referral services, and aims to raise the profile of FOSS in Victoria and work with other similar organizations across Australia, as well as improve Victoria's Information and Communication Technology (ICT) competitiveness through FOSS deployment and development.

We invite you to visit our website (http://www.osv.org.au/) where you may find out more about us.

Acknowledgments

Open Source Victoria would like to that that State Government of Victoria, which through the grants made available through Multimedia Victoria have made this project possible.

Copying and Redistribution

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The National Center for Open Source and Education

The National Center for Open Source and Education serves as a centralized clearinghouse for information, resources, seminars and conferences and provides the critical link between the Open Source community and K-12 schools within and outside of the U.S. The vision of the Center is to have educational technology finally be a unifying rather than a divisive force in our rapidly diversifying country.

Technology has become increasingly important to all aspects of our society. Our schools understand the need to provide students with the skills to succeed in this digital world. Because commercial software is so expensive, many schools cannot afford to provide it.

Open Source software is the solution to this problem. This software is free to use, free to change and free to share. In the last several years, Open Source software has matured to the point where it is a viable alternative to commercial, closed source software.

The broader benefits of a national adoption of Open Source technologies stretch from the individual, through the local community to the country at large. For the first time, students are provided with legitimate copies of the tools they are using in schools for use at home free of the fear of piracy, local communities find some relief of budget cuts and, since most FOSS programs are international, U.S. students are afforded the opportunity to interact with students and software professionals from around the world.

We at the Center have become quite concerned about the growing 'Digital Divide' — created because wealthy schools and students had better access to technology simply because they could afford it. We feel so passionately about Open Source software because it provides an elegant solution to this problem by allowing schools to legally share their software (and donated hardware) with any students that want it so that everyone has an equal chance.

Please visit our website:

www.ncose.org

Additional Software

Besides the software we showcase here, there are another 100,000 or so open source packages, running on a range of platforms. You can use your favourite search engine to find such software, for instance, if you are looking for geography software, search for:

open source geography software

You can also browse for or search additional software at repositories and foundries like http://sourceforge.net/ and http://freshmeat.net/

A Note on Sources

To ensure the maximal level of information fidelity we have sourced the descriptions and screen-shots used within this document from the primary sources which pertain to the applications in question.

Suggestions and Corrections

If you would like to suggest software to be included in the next version of this publication or have corrections in any of the software already listed, please contact us at:

info@ncose.org

Three Paths of Open Source Software for Schools

You can use open source software in a number of ways. Many open source applications can happily run on various operating system platforms, such as Windows, Mac OS and Linux. However, there are many more open source applications which run on open source platforms, primarily Linux. You therefore have several paths towards using open source software. You can:

1. Use software which will work with existing Windows (and sometimes Macintosh) workstations.
2. Use software which will work with an installation on a Linux operating system partition, as part of a dual-boot PC (which can also continue to run the existing Windows platform.)
3. Use software which will work on a Linux-only server and be accessible from Windows or Mac OS via a web browser.

Using Your Current OS

We perceive that the easiest option for many teachers and schools when starting to use open source software, is the first approach, namely to install and use software which runs on the operating system you are currently using. You are able to download and install this software, directly from the websites nominated.

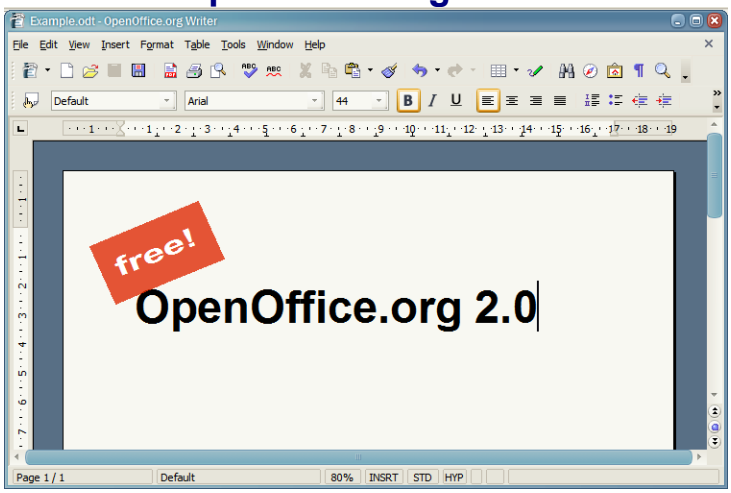
Using Linux (or dual boot Linux/Windows)

While there are hundreds of open source programs which are available for Windows and Macintosh computers, there are far more which run on top of the Linux operating system. You are able to use these programs by installing Linux on some of your PCs, or perhaps making your existing Windows or Macintosh dual-boot, so they can be made to run with Linux (and therefore Linux software) as well. This will not affect the current operating system and software you may already have installed on that computer.

While some time back, Linux was quite complex to install and use. Nowdays, it is no more complex than Windows, and looks much like the modern Windows desktop.

Office Productivity Applications

OpenOffice.org – The Future of Office Suites

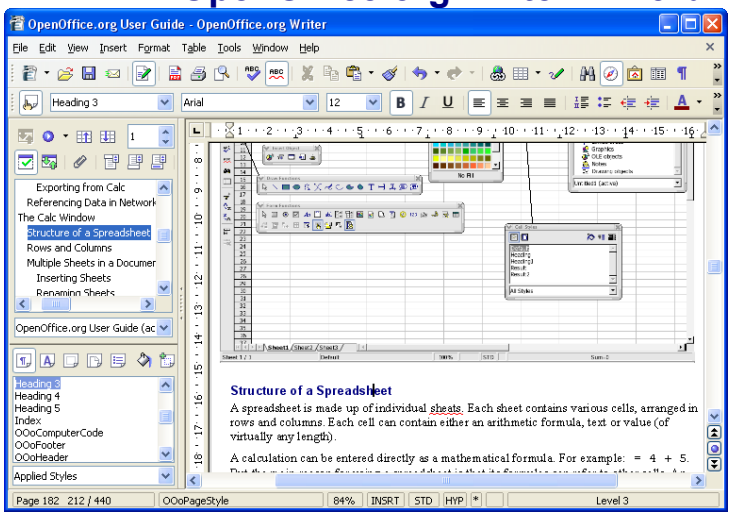


OpenOffice.org mostly works and looks like *Microsoft Office*. With *OpenOffice.org*, you are able to create, read and write *Word*, *Excel* and *Powerpoint* files, as well as create complex vector drawings. *OpenOffice.org* also allows you to directly save your documents into industry-standard XML and PDF. *OpenOffice.org* is available in over a dozen languages.

Windows | Mac OS | Linux

http://www.openoffice.org

OpenOffice.org Writer – Word Processor

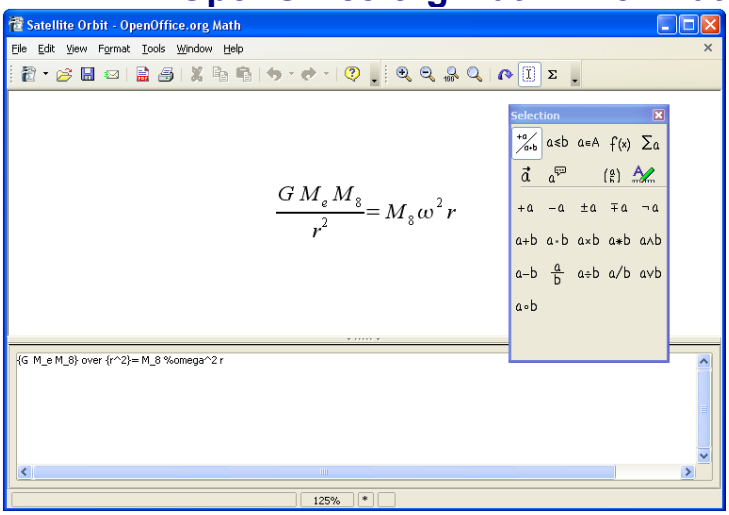


Writer has everything you would expect from a modern, fully equipped word processor or desktop publisher.

It's simple enough for a quick memo, powerful enough to create complete books with contents, diagrams, indexes, etc. You're free to concentrate on your message - while *Writer* makes it look great.

http://www.openoffice.org/

OpenOffice.org Math – For Mathematical Equations

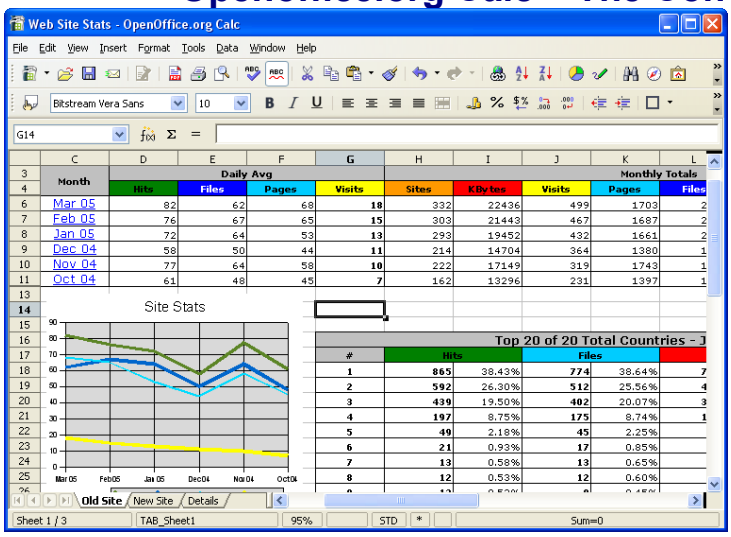


Math is the mathematical equation component for ***OpenOffice.org***. It is most commonly used as an equation editor for text documents, but it can also be used with other types of documents or stand-alone. When used inside ***Writer***, the equation is treated as an object inside the text document. Similarly, one can also insert these into other *OpenOffice.org* programs like ***Calc*** and ***Impress***.

Windows Mac OS Linux

http://www.openoffice.org/

Openoffice.org Calc – The Convenient Spreadsheet

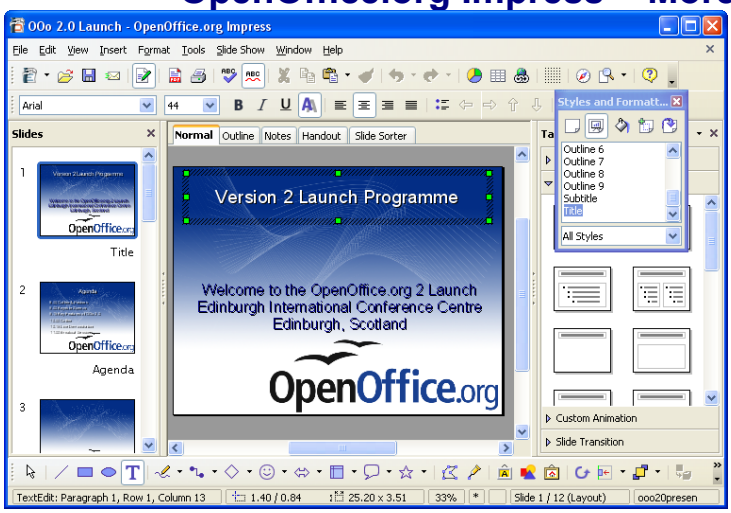


Calc is the spreadsheet program you've always wanted. Newcomers find it intuitive and easy to learn; professional data miners and number crunchers will appreciate the comprehensive range of advanced functions.

Windows Mac OS Linux

http://www.openoffice.org/

OpenOffice.org Impress – More Powerful Presentations

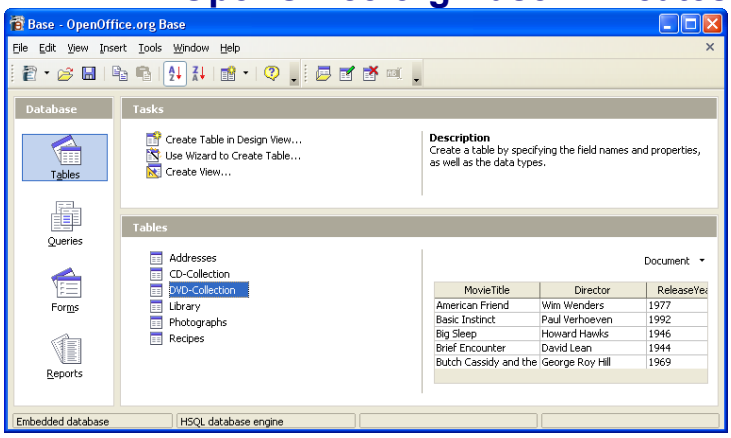


Impress is a truly outstanding tool for creating effective multimedia presentations. Your presentations will stand out with 2D and 3D clip art, special effects, animation, and high-impact drawing tools.

Windows Mac OS Linux

http://www.openoffice.org/

OpenOffice.org Base – Creates Accessible Databases

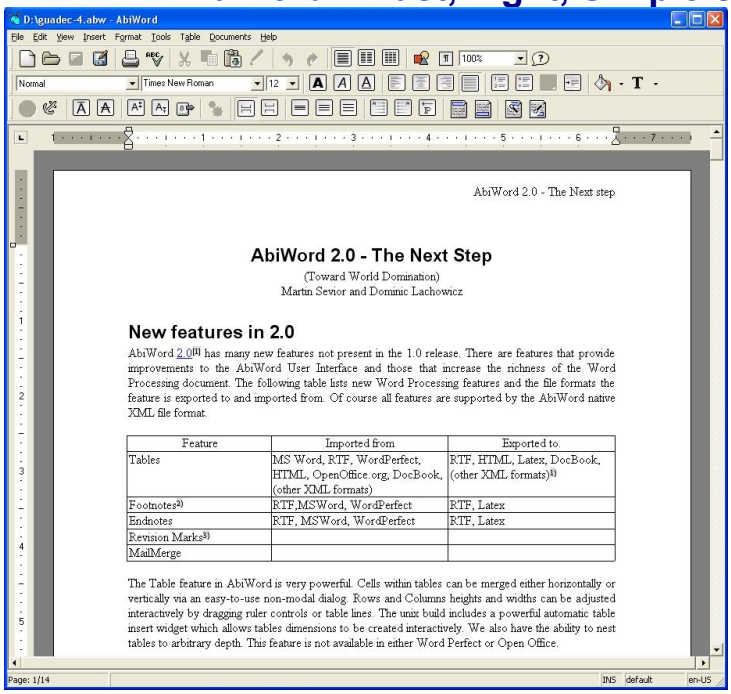


Base enables you to manipulate database data seamlessly within ***OpenOffice.org***. Create and modify tables, forms, queries, and reports, either using your own database or *Base*'s own built-in HSQL database engine. *Base* offers a choice of using *Wizards*, *Design Views*, or *SQL Views* for beginners, intermediate, and advanced users.

Windows Mac OS Linux

http://www.openoffice.org/

Abiword – Fast, Light, Simple & Usable Word Processor



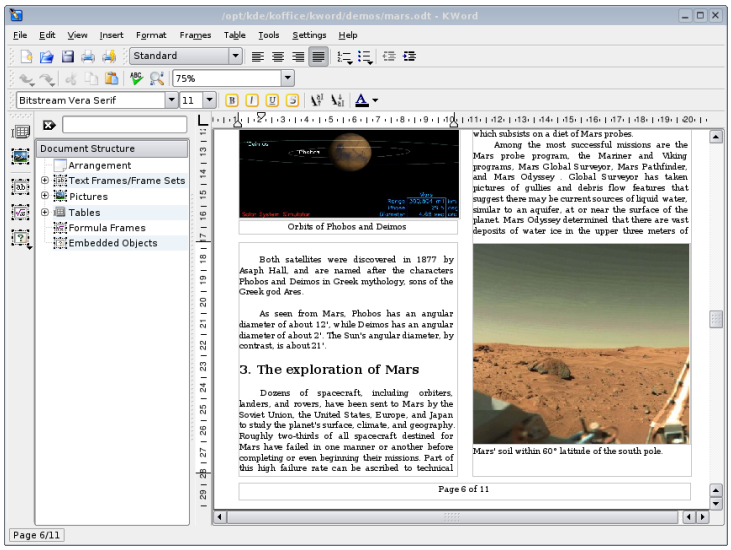
AbiWord is a free word processing program similar to Microsoft Word. It is suitable for a wide variety of word processing tasks. AbiWord is rapidly becoming a state of the art Word Processor, with lots of features useful for your daily work, personal needs, or for just some good old typing fun.

AbiWord is able to read and write all industry standard document types, such as OpenOffice.org documents, Microsoft Word documents, WordPerfect documents, Rich Text Format documents, HTML web pages and many more.

Windows Mac OS Linux

http://www.abisource.org/

Kword – KOffice Word Processor



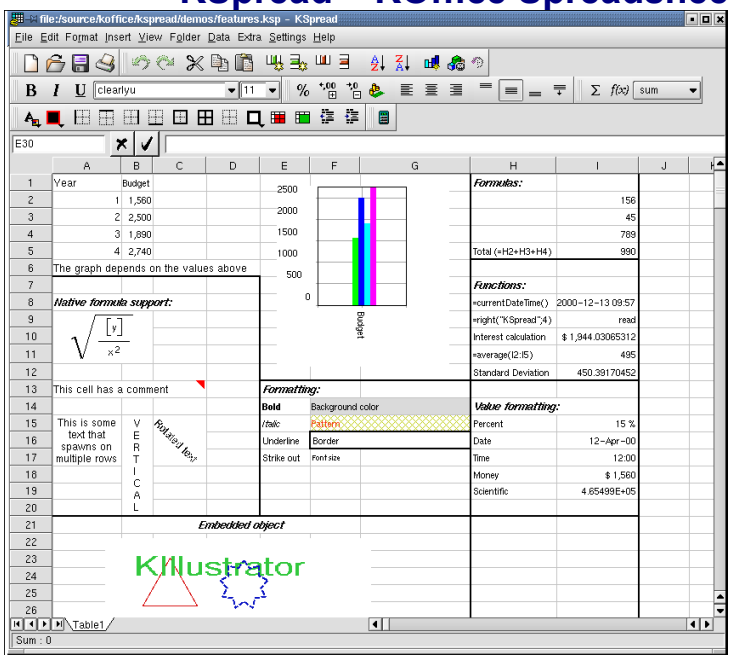
KOffice is a free, integrated office suite for KDE, the K Desktop Environment often used on Linux.

KWord is a frame-based word-processing and desktop publishing application. KWord is capable of creating demanding and professional looking documents. Whether you are a corporate or home user, production artist or student, KWord will prove a valuable and easy to use tool for all your word processing and layout needs.

Linux

http://www.koffice.org/kword/

KSpread – KOffice Spreadsheet

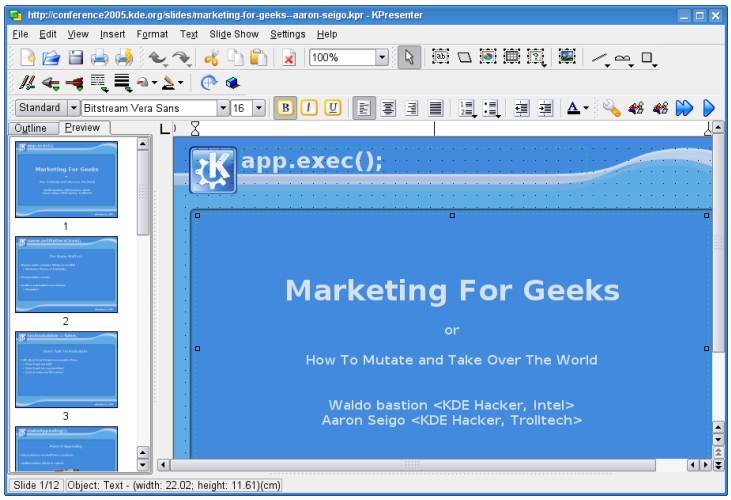


KSpread is a scriptable spreadsheet program which provides both table-oriented sheets and support for complex mathematical formulas and statistics.

Linux

http://www.koffice.org/kspread/

KPresenter – KOffice Presentation Application

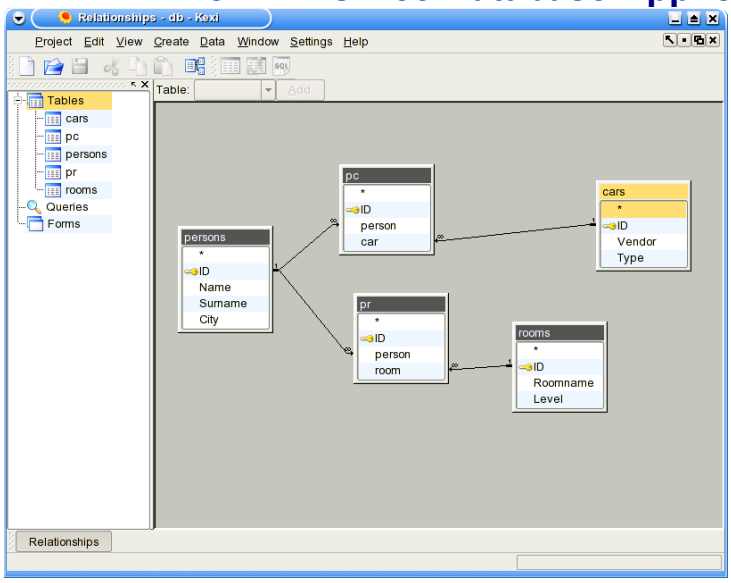


KPresenter is a presentation application. With KPresenter, you can prepare a set of slides for use in an on-screen slideshow or for printing. Your slides can include text and graphics in a variety of formats, and of course, you can embed all sorts of objects.

Linux

http://www.koffice.org/kpresenter/

Kexi – KOffice Database Application

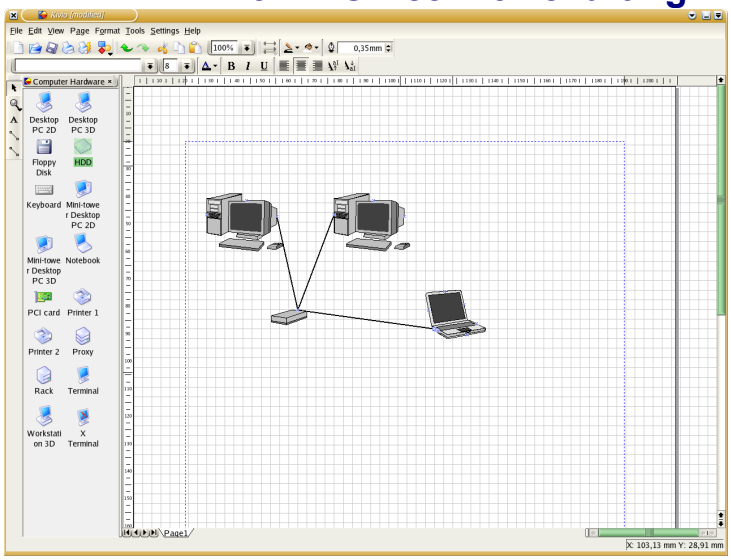


Kexi is an integrated data management application. It can be used for creating database schemas, inserting data, performing queries, and processing data. Forms can be created to provide a custom interface to your data. All database objects - tables, queries and forms - are stored in the database, making it easy to share data and design.

Linux

http://www.koffice.org/kexi/

Kivio – KOffice Flowcharting

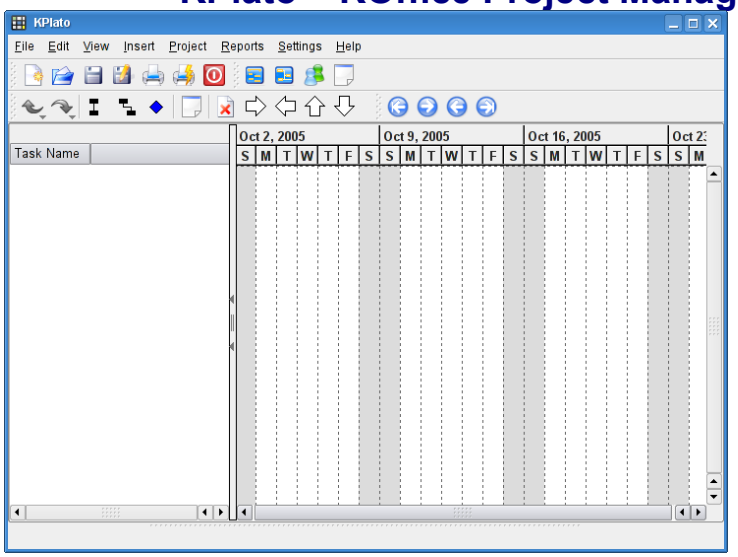


Kivio is a flowcharting and diagramming application for the KOffice application suite, and has an userinterface that is similar to Visio®. It is fully integrated into KOffice and can for example be embedded into KWord.

Linux

http://www.koffice.org/kivio/

KPlato – KOffice Project Management

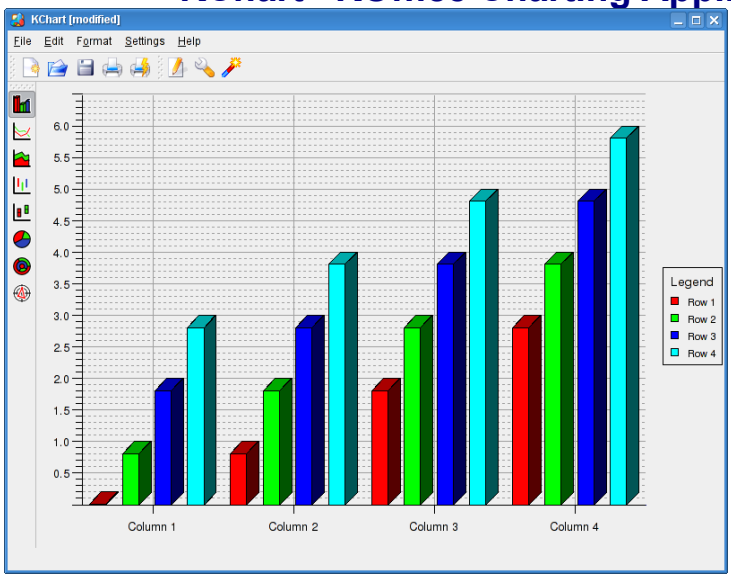


KPlato is a project management application, allowing for the planning and scheduling of projects. It is in the very early stages of development.

Linux

http://www.koffice.org/kplato/

KChart– KOffice Charting Application

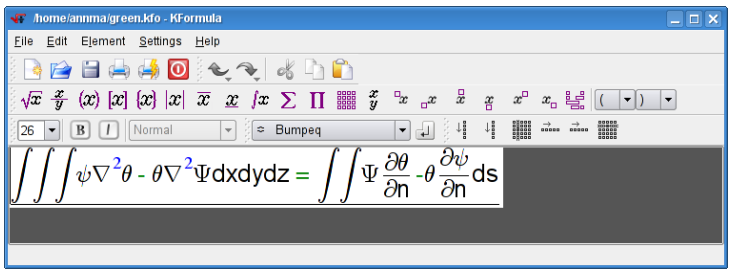


KChart is the KOffice chart drawing application. Use it to embed charts into your KOffice documents, e.g. a report written with KWord or a slideshow made with KPresenter.

Linux

http://www.koffice.org/kchart/

KFormula – KOffice Mathematical Formula Formatting



KFormula is a formula editor for KOffice. KFormula can be used to create and edit mathematical formulas that can be included in other KOffice documents. It provides simple input facilities and supports the functionality you expect from a KOffice application.

Linux

http://www.koffice.org/kformula/

Graphics

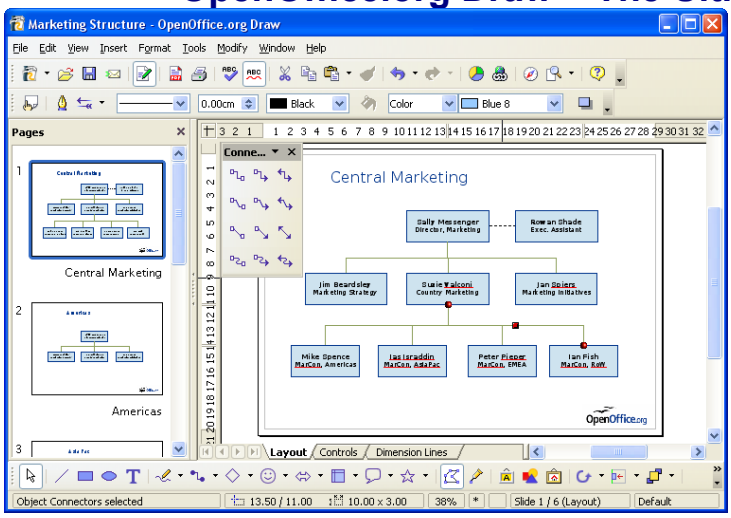
GIMP – Photo Manipulation Program

GIMP is a powerful, fully-featured graphics program which can perform all the actions images you could ever want. *GIMP* is an acronym for GNU Image Manipulation Program. It has many capabilities. It can be used as a simple paint program, an expert quality photo retouching program, an online batch processing system, a mass production image renderer, an image format converter, etc.

Windows Mac OS Linux

http://www.gimp.org

OpenOffice.org Draw – The Ultimate Graphics Bundle

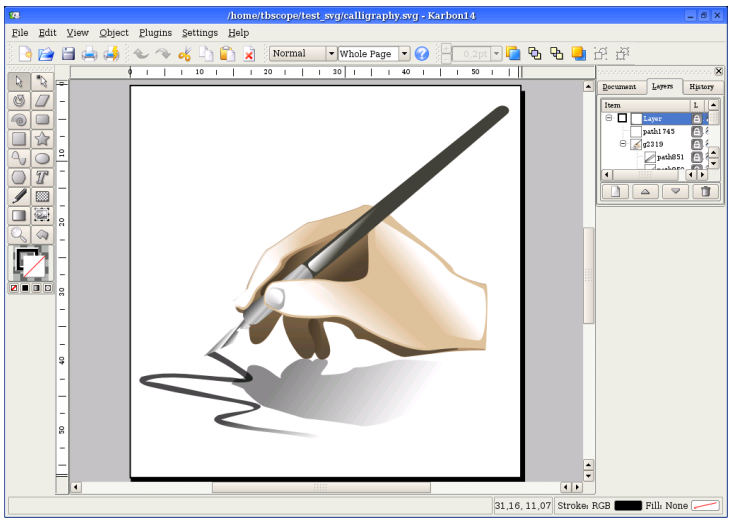


From a quick sketch to a complex plan, ***Draw*** provides you with the tools to communicate with graphics and diagrams.

Windows Mac OS Linux

http://www.openoffice.org/

Karbon14 – KOffice Vector Drawing

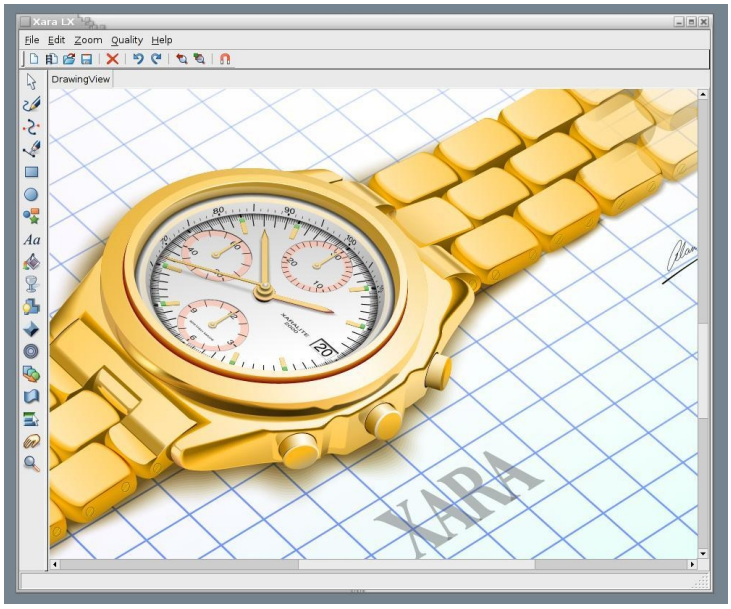


Karbon is a *vector-based* drawing application for KOffice. It allows artists to create complex drawings without losing image quality when zooming in on, or resizing the drawing. You can use Karbon to add finishing touches to diagrams created using Kivio or charts created using KChart. Graphic design ideas can be quickly and easily transformed into high quality illustrations with Karbon.

Linux

http://www.koffice.org/karbon/

Xara Xtreme – Fast & Versatile Vector Graphics

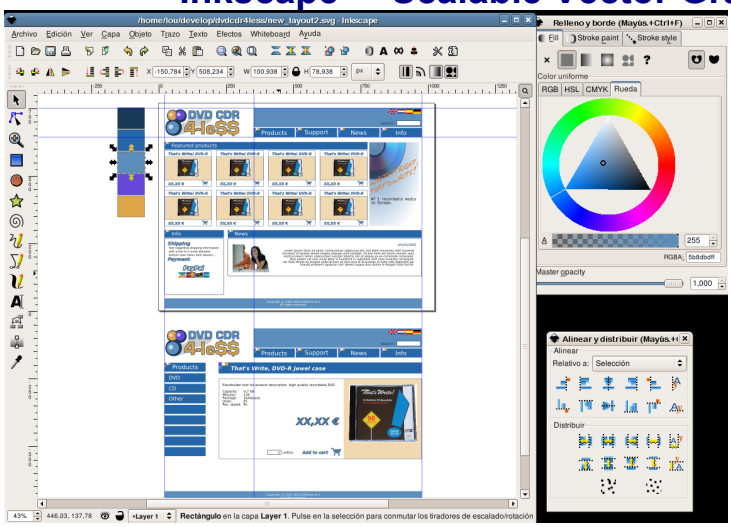


Xara X is the world's fastest and we believe the most versatile graphics software. It's primarily a vector graphics (drawing and illustration) program but is one of the new generation of cross-over products that handles photos and drawings with equal ease. Xara X is also renowned for its slick, easy-to-use and easy-to-learn approach.

Linux

http://xaraxtreme.org/

Inkscape – Scalable Vector Graphics

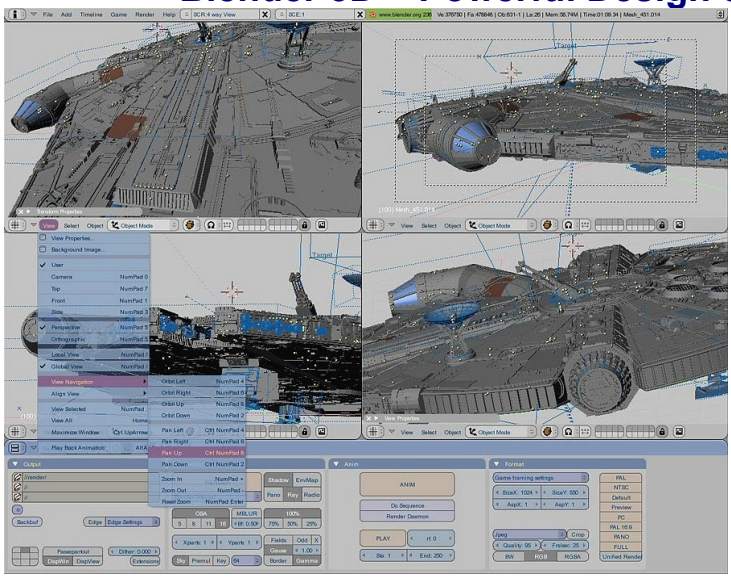


Inkscape is a vector graphics editor, with capabilities similar to Illustrator, Freehand, CorelDraw, or Xara X using the W3C standard Scalable Vector Graphics (SVG) file format. Supported SVG features include shapes, paths, text, markers, clones, alpha blending, transforms, gradients, patterns, and grouping. Inkscape also supports Creative Commons meta-data, node editing, layers, complex path operations, bitmap tracing, text-on-path, flowed text, direct XML editing, and more.

Windows | Mac OS | Linux

http://www.inkscape.org/

Blender 3D – Powerful Design & Rendering System



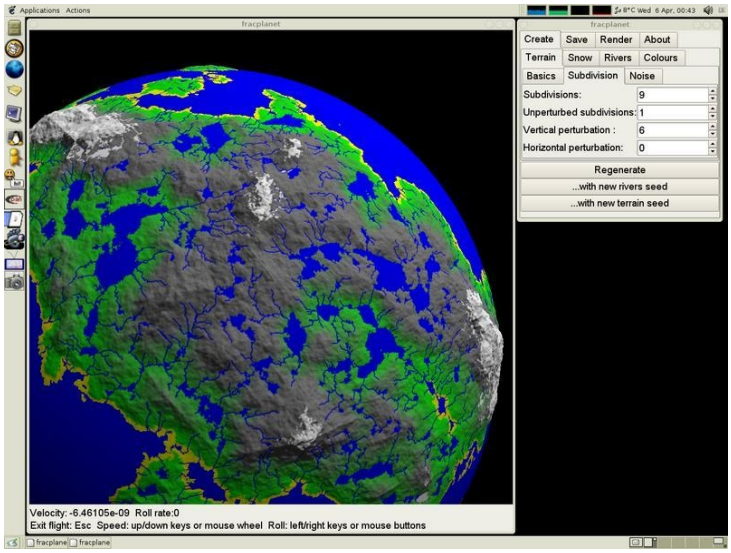
Blender is a fully integrated 3D graphics creation suite allowing modeling, animation, rendering, post-production, real-time interactive 3D, and game creation and playback with cross-platform compatibility.

Blender is a powerful, professional-grade system which has to be seen to be believed.

Windows | Mac OS | Linux

http://blender.org/

FracPlanet – Make Your Own Planet!



Fracplanet is an interactive application to generate and view random fractal planets and terrain with oceans, mountains, icecaps, and rivers, then save them in POV-Ray format. It uses Qt and OpenGL.

Mac OS Linux

http://www.bottlenose.demon.co.uk/share/fracplanet/index.htm

POV Ray – Ray Tracer Program

The ***Persistence of Vision Ray-Tracer*** creates three-dimensional, photo-realistic images using a rendering technique called ray-tracing. It reads in a text file containing information describing the objects and lighting in a scene and generates an image of that scene from the view point of a camera also described in the text file.

Windows Mac OS Linux

http://www.povray.org

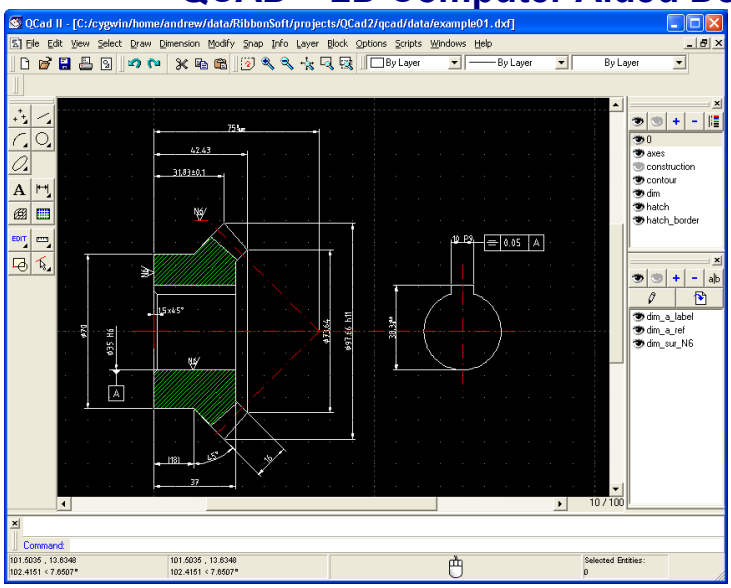
Krita – KOffice Paint Application

Krita is a painting and image editing application for KOffice. Krita is part of KOffice since 1.4. Krita contains both ease-of-use and fun features like guided painting (never before has it been so easy to airbrush a straight line!) and high-end features like support for 16 bit images, CMYK and even OpenEXR HDR images.

Linux

http://www.koffice.org/krita/

QCAD – 2D Computer Aided Design and Drafting



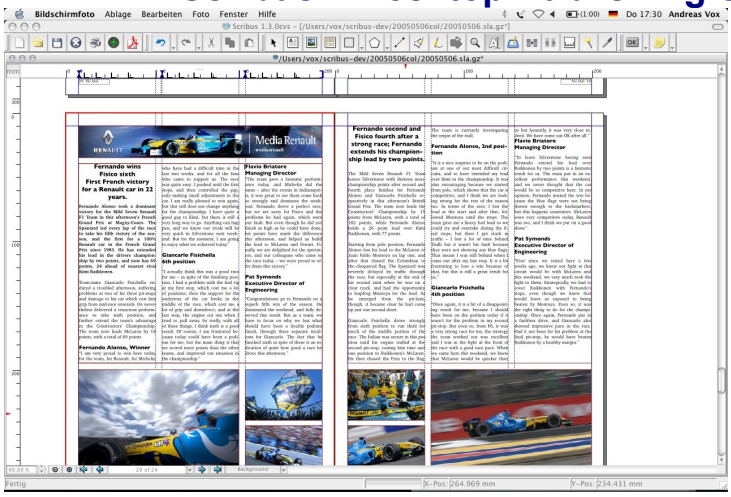
QCad is an application for computer aided drafting in two dimensions. With QCad you can create technical drawings such as plans for buildings, interiors or mechanical parts. QCad works under Linux, Unix Systems, Mac OS X and Windows.

Linux

http://www.qcad.org/qcad.html

Publishing

Scribus – Desktop Publishing Suite

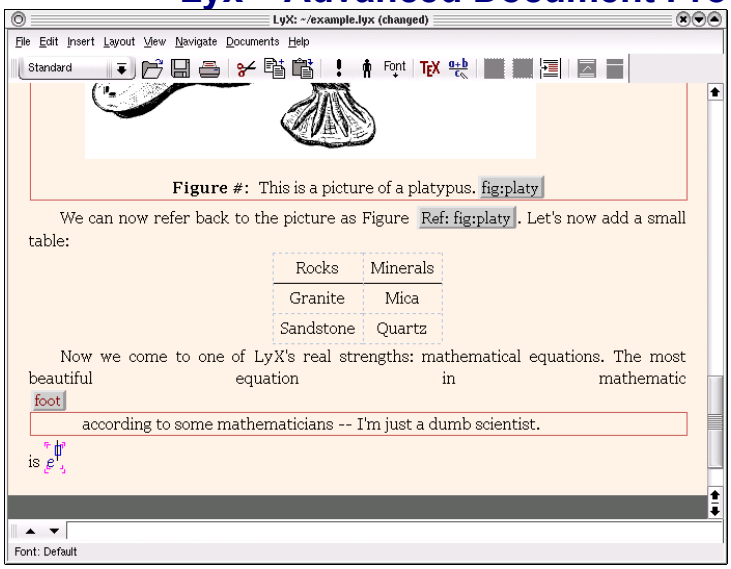


Scribus is an open source DTP application for Linux and other flavors of Unix and Unix-like systems, including Mac OS X and soon Windows.

Mac OS | Linux

http://www.scribus.net

Lyx – Advanced Document Processor

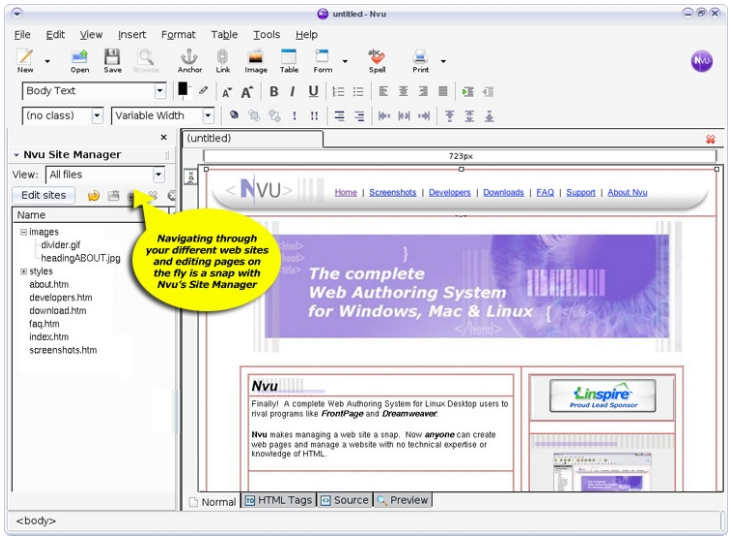


LyX is an advanced open source document processor that encourages an approach to writing based on the structure of your documents, not their appearance. LyX lets you concentrate on writing, leaving details of visual layout to the software.

Windows | Mac OS | Linux

http://www.lyx.org/

NVU – A Web content editor



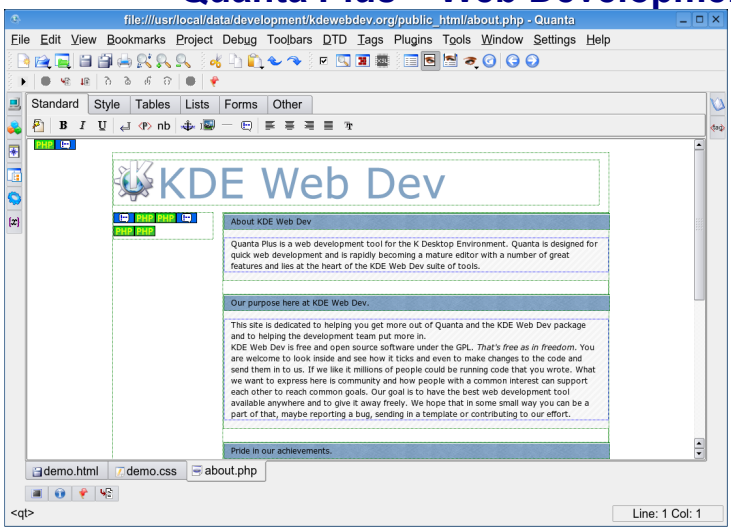
A complete Web Authoring System for Linux Desktop users as well as Microsoft Windows and Macintosh users to rival programs like FrontPage and Dreamweaver.

Nvu makes managing a web site a snap. Now anyone can create web pages and manage a website with no technical expertise or knowledge of HTML.

Windows Mac OS Linux

http://www.nvu.com/

Quanta Plus – Web Development IDE



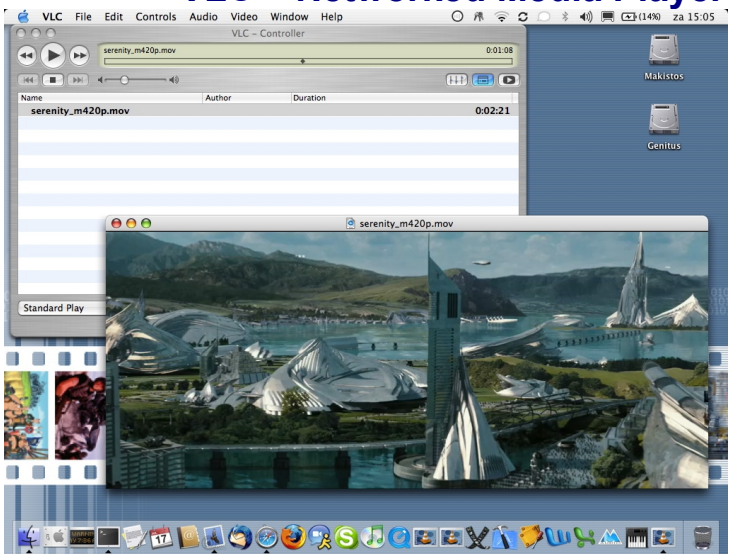
Quanta Plus is a highly stable and feature rich web development environment. The vision with Quanta has always been to start with the best architectural foundations, design for efficient and natural use and enable maximal user extensibility.

Linux

http://quanta.kdewebdev.org/

Multimedia

VLC – Networked Media Player

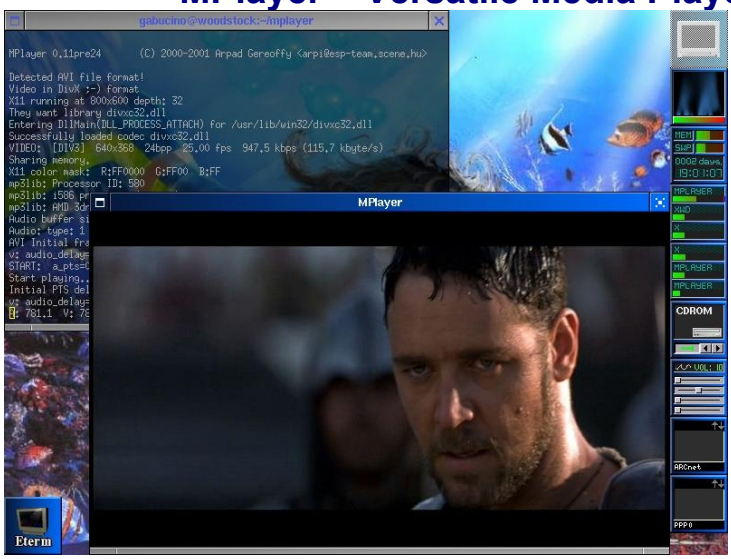


VLC (initially VideoLAN Client) is a highly portable multimedia player for various audio and video formats (MPEG-1, MPEG-2, MPEG-4, DivX, mp3, ogg etc.) as well as DVDs, VCDs, and various **streaming** protocols. It can also be used as a server to stream in unicast or multicast in IPv4 or **IPv6** on a high-bandwidth network.

Windows | Mac OS | Linux

http://www.videolan.org/vlc/

MPlayer – Versatile Media Player

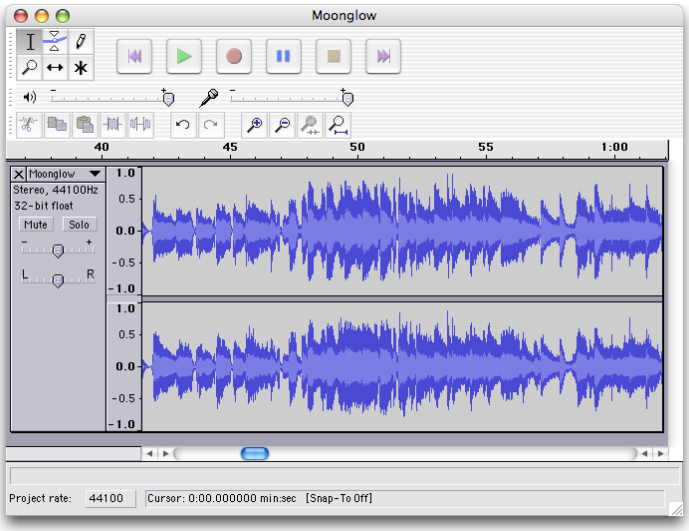


MPlayer is a movie player which runs on many systems. It plays most MPEG/VOB, AVI, Ogg/OGM, VIVO, ASF/WMA/WMV, QT/MOV/MP4, RealMedia, Matroska, NUT, NuppelVideo, FLI, YUV4MPEG, FILM, RoQ, PVA files, supported by many native, XAnim, and Win32 DLL codecs. You can watch VideoCD, SVCD, DVD, 3ivx, DivX 3/4/5 and even WMV movies.

Windows | Mac OS | Linux

http://www.mplayerhq.hu/

Audacity - The Free, Cross-Platform Sound Editor

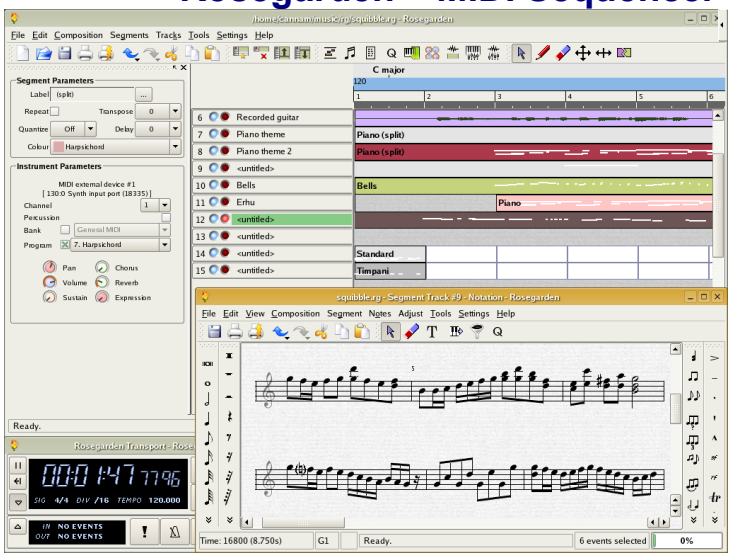


A fast multi-track audio editor and recorder for Linux, BSD, Mac OS, and Windows. Supports WAV, AIFF, Ogg, and MP3 formats. Features include envelope editing, mixing, built-in effects and plug-ins, all with unlimited undo.

Windows Mac OS Linux

http://audacity.sourceforge.net/

Rosegarden – MIDI Sequencer

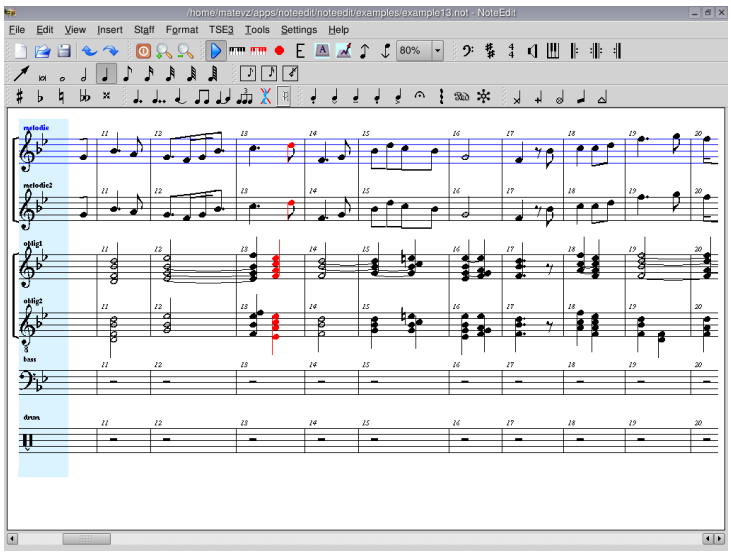


Rosegarden is an audio and MIDI sequencer, score editor, and general-purpose music composition and editing environment. It is an easy-to-learn, attractive application that runs on Linux. It is ideal for composers, musicians, music students, and small studio or home recording environments.

Linux

http://www.rosegardenmusic.com/

Note Editor – Score Editor

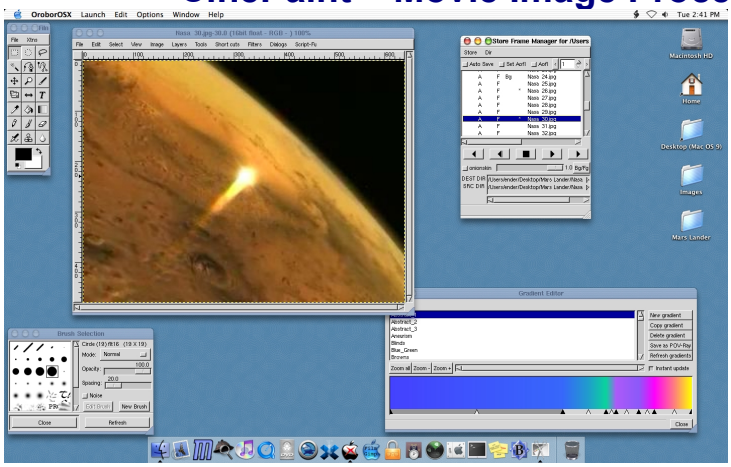


Note Editor is an editor for music notation that supports an unlimited number of staffs and up to 9 voices per staff. The import formats are MIDI files, recorded from MIDI keyboards and TSE3. The export formats are MIDI, MusiXTeX, LilyPond, PMX, MUP, and TSE3.

Linux

http://noteedit.berlios.de/

CinePaint – Movie Image Processing

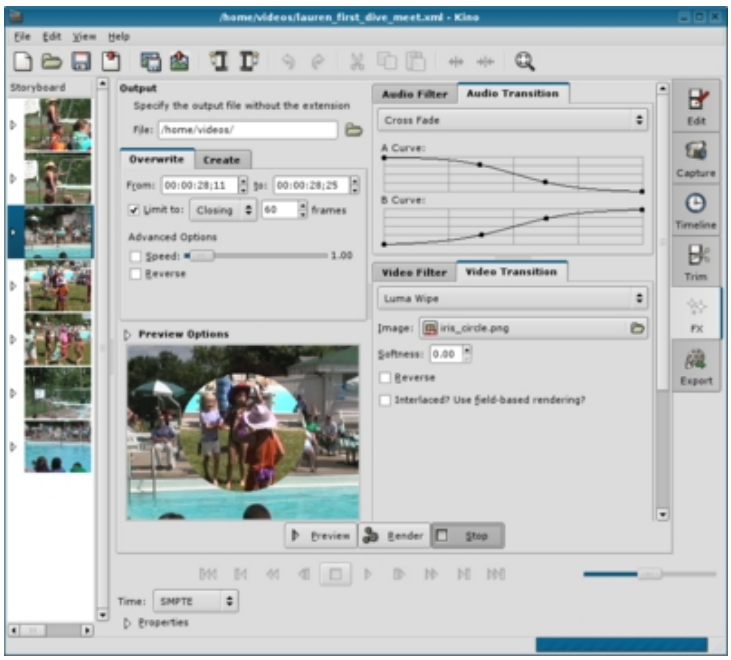


CinePaint is a collection of free open source software tools for deep paint manipulation and image processing. CinePaint is a collaborative project that spans the film industry, universities, and the open source community.

Windows Mac OS Linux

http://www.cinepaint.org

Kino

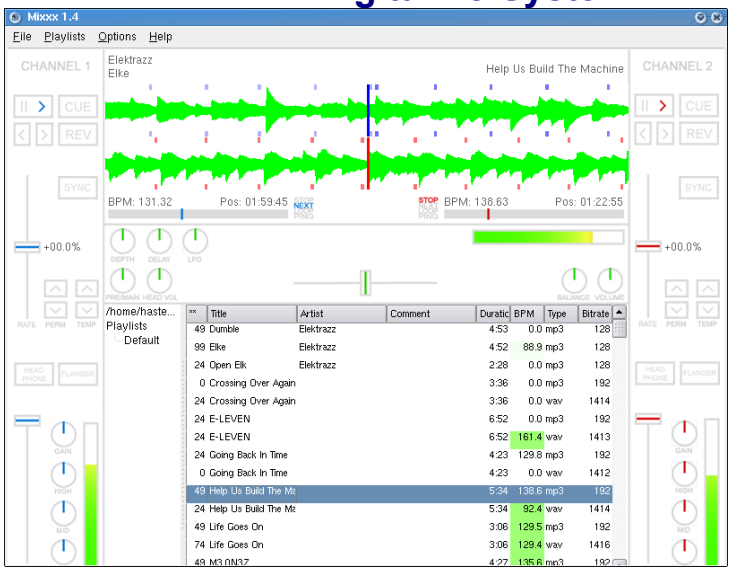


Easy and reliable DV editing for the Linux desktop with export to many usable formats.

Linux

http://www.kinodv.org/

Mixxx - Digital DJ System



Mixxx is a digital DJ system, where wave, Ogg, and MP3 files can be mixed on a computer for use in live performances. Filters, a crossfader, and speed controls are provided. It is controlled by mouse and/or MIDI events.

Windows Mac OS Linux

http://mixxx.sourceforge.net

MythTV – Versatile Media Center

Home or School media center solution which provides the ability to pause, fast-forward and rewind live television, DVDs, images, music and capture analog capture card, MPEG-2, MJPEG, DVB or HDTV.

Linux

http://www.mythtv.org/

Jahshaka - Realtime Editing and Effects System

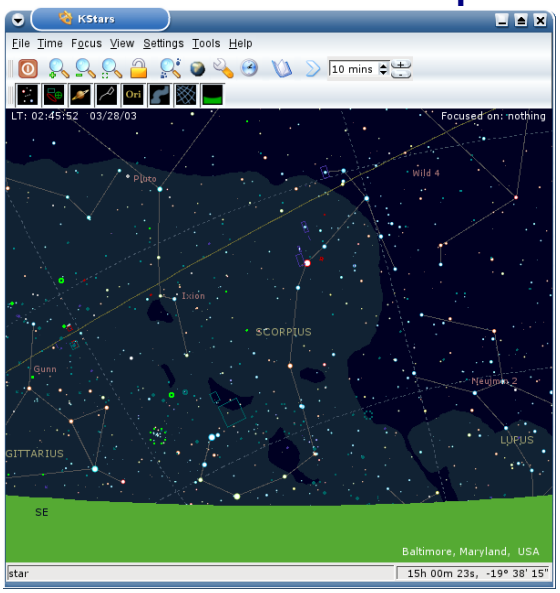
Edit with flexibility and speed Create Effects in real time. Animate with unlimited features. Paint and design on moving video. Create music with all the tools the pros use. Work in any format at any resolution

Windows Mac OS Linux

http://www.jahshaka.org/

Scientific Applications

KStars – The Desktop Planetarium

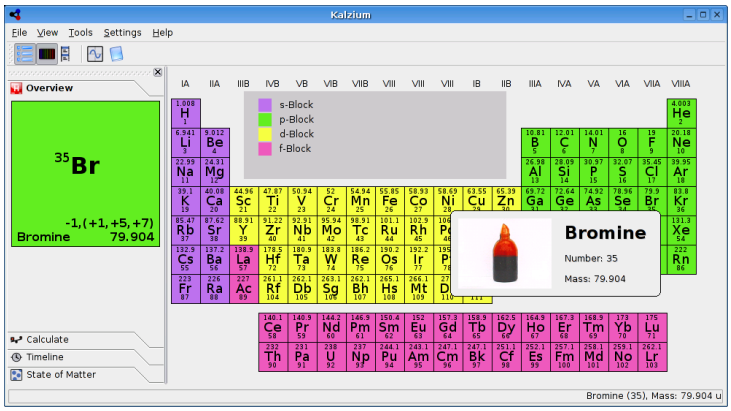


KStars provides an accurate graphical simulation of the night sky, from any location on Earth, at any date and time. The display includes 40,000 stars, 13,000 deep-sky objects,all 8 planets, the Sun and Moon, and thousands of comets and asteroids.

Linux

http://edu.kde.org/kstars/

Kalzium – Periodic Table



Kalzium is an application which will show you some information about the periodic system of the elements. Therefore you could use it as an information data bank.

Linux

http://edu.kde.org/kalzium

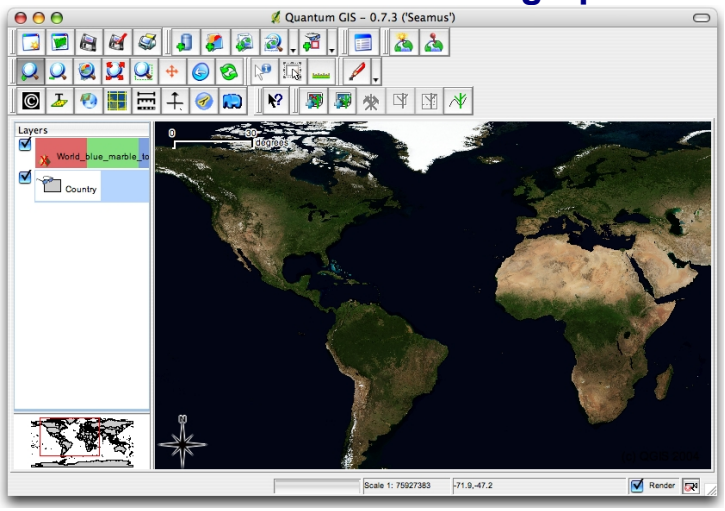
Celestia – A True Space Simulator

Celestia doesn't confine you to the surface of the Earth. You can travel throughout the solar system, to any of over 100,000 stars, or even beyond the galaxy. *Celestia* comes with a large catalog of stars, planets, moons, asteroids, comets, and spacecraft. If that's not enough, you can download dozens of easy to install add-ons with more objects.

Windows Mac OS Linux

http://celestia.sourceforge.net/

Quantum GIS - Geographic Information System

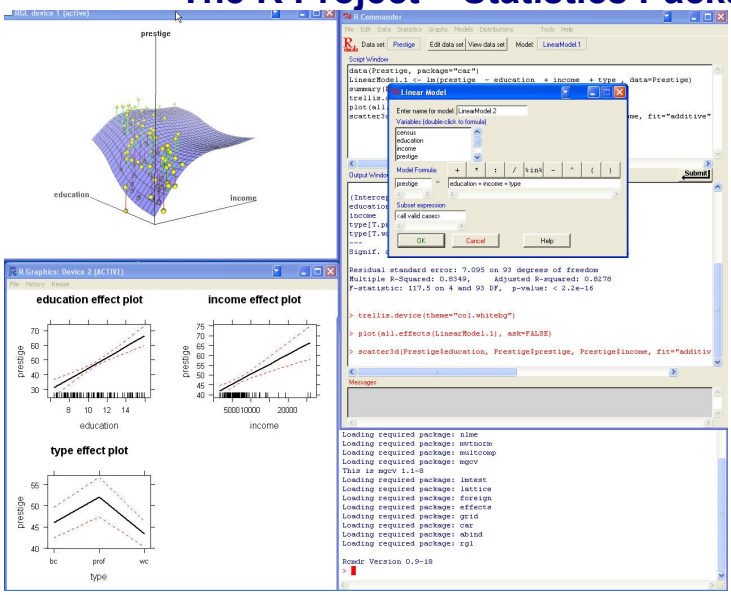


Support for spatially enabled PostGIS tables Support for shapefiles, ArcInfo coverages, Mapinfo, and other formats supported by OGR Raster support for a large number of formats Identify features Display attribute tables Select features GRASS Digitizing Feature labeling

Windows Mac OS Linux

http://www.qgis.org/

The R Project – Statistics Package

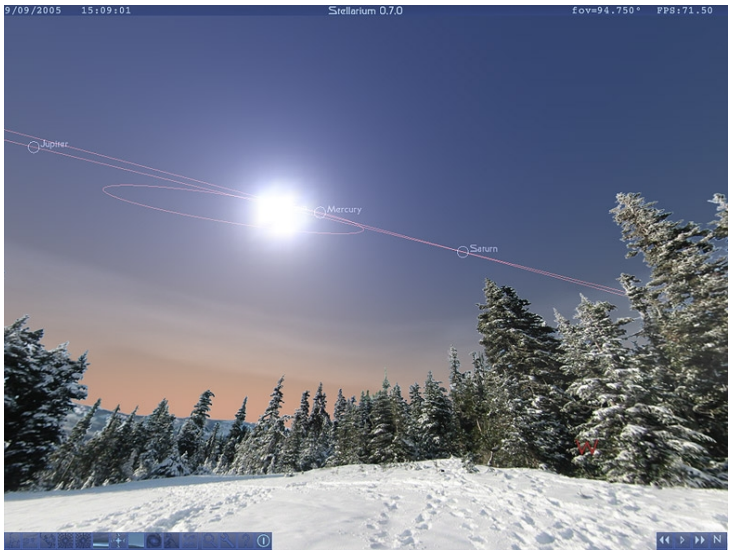


R is a language and environment for statistical computing and graphics. R provides a wide variety of statistical (linear and nonlinear modelling, classical statistical tests, time-series analysis, classification, clustering, ...) and graphical techniques, and is highly extensible.

Windows Mac OS Linux

http://www.r-project.org/

Stellarium – A Planetarium for the Classroom



Stellarium is free GPL software which renders realistic skies in real time with openGL. It is available for Linux/Unix, Windows and MacOSX.

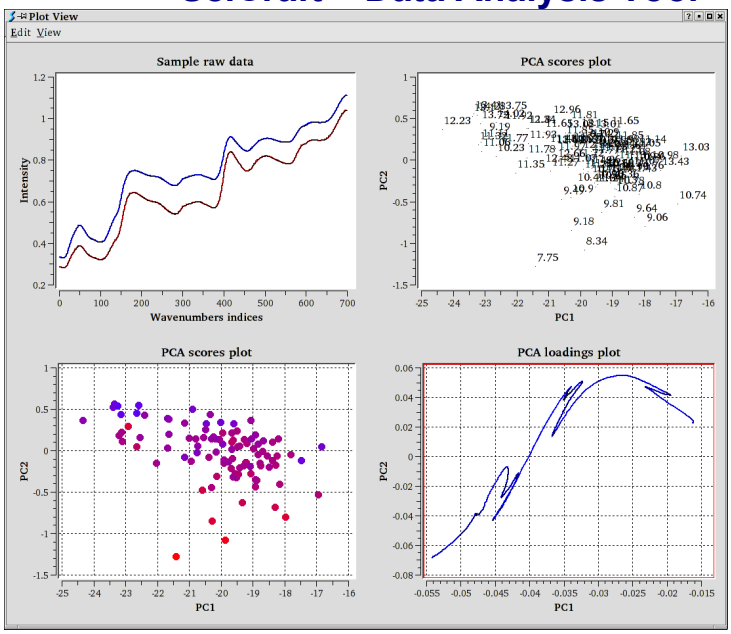
With Stellarium, you really see what you can see with your eyes, binoculars or a small telescope.

Stellarium is also used in planetariums

Windows Mac OS Linux

http://stellarium.sourceforge.net/

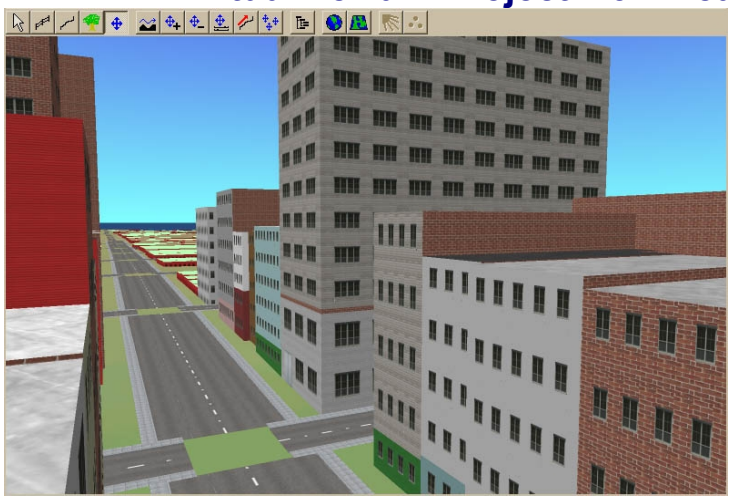
SciCraft – Data Analysis Tool



SciCraft is a data analysis software which allows the user to access advanced methods in statistics, chemometrics and artificial intelligence through an easy-to-use graphical user interface (GUI)

Windows Linux http://www.scicraft.org/

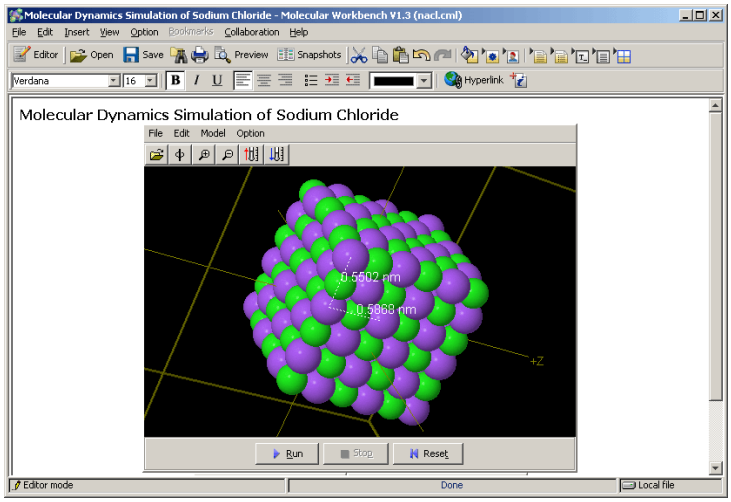
Virtual Terrain Project – 3D Real World Simulations



The goal of VTP is to foster the creation of tools for easily constructing any part of the real world in interactive, 3D digital form.

Windows Linux http://vterrain.org/

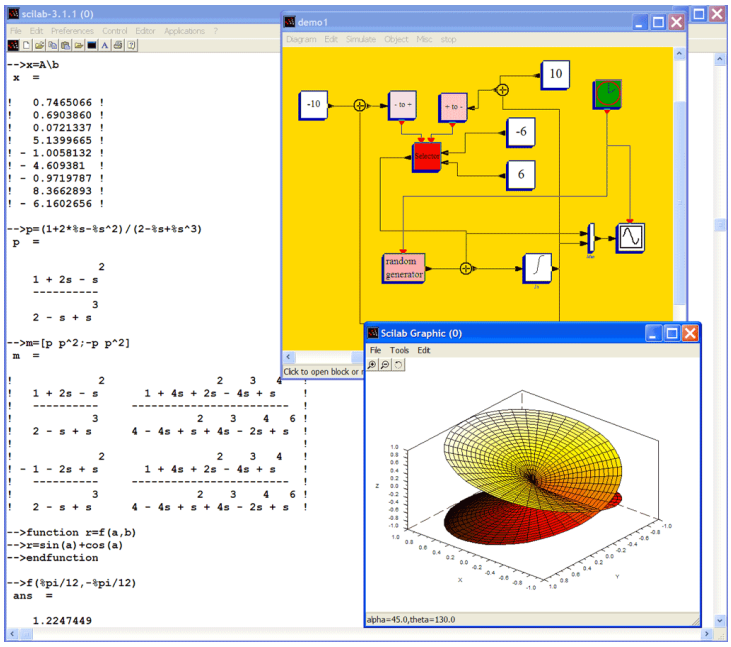
MOLO – Molecular Workbench



The goal of the Molecular Logic project is to improve the ability of all students to understand fundamental biological phenomena in terms of the interactions of atoms and molecules. The Molecular Logic project aims to do this by enhancing biology courses with guided explorations of powerful atomic and molecular computational models. These models are embedded in an easily implemented database linked to both typical textbooks and standards.

Windows Linux http://molo.concord.org/

Scilab - Scientific Software Package

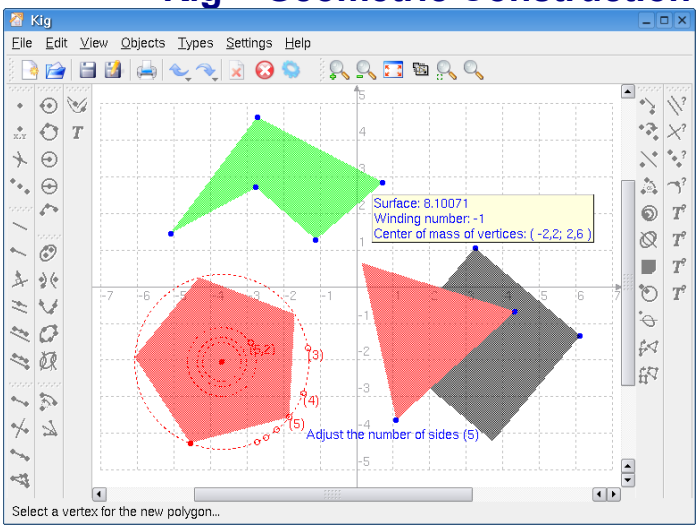


Scilab is a scientific software package for numerical computations providing a powerful open computing environment for engineering and scientific applications.

Windows Mac OS Linux http://www.scilab.org/

Mathematical Applications

Kig – Geometric Construction Program

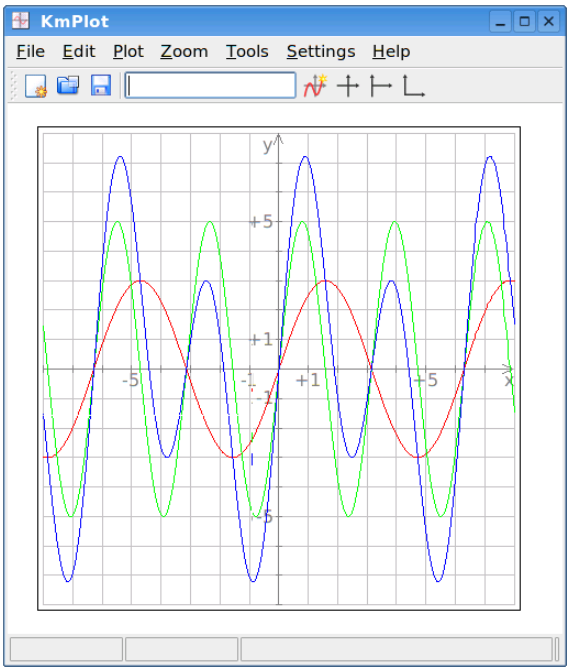


Kig is an interactive program for exploring geometric constructions. It allows you to create various geometric shapes as well as explore mathematical figures and concepts on the computer. *Kig* is used as a replacement for similar programs such as *KSeg* and *KGeo*.

Linux

http://edu.kde.org/kig/

KmPlot – Mathematical Function Plotter

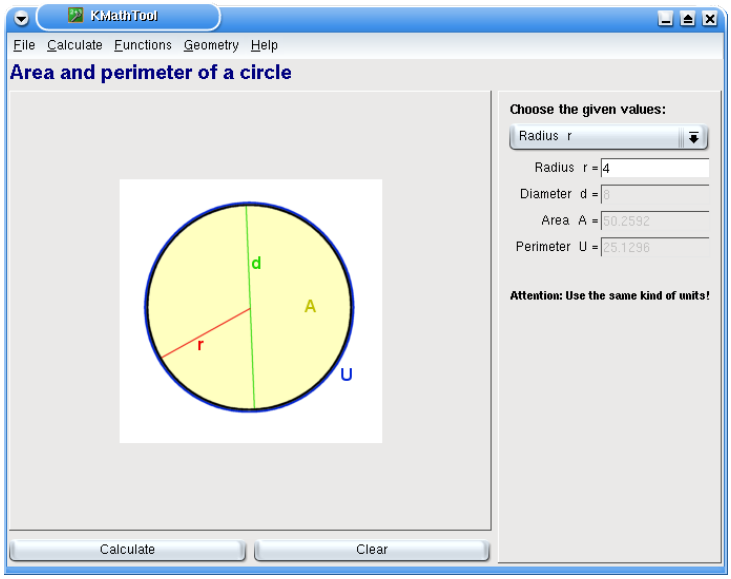


It has a built in powerful parser. You can plot different functions simultaneously and combine their function terms to build new functions. ***KmPlot*** supports functions with parameters and functions in polar coordinates. Several grid modes are possible. Plots may be printed with high precision in correct scale.

Linux

http://edu.kde.org/kmplot/

KMathTool – A Resourceful Maths Tool

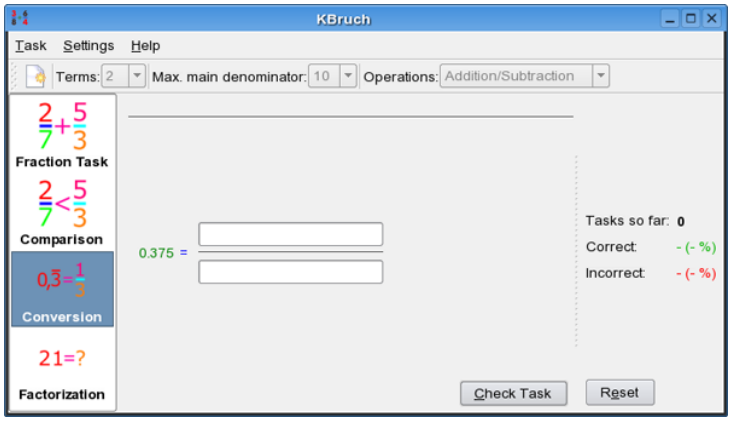


KMathTool will be a collection of little maths-tools. There are already some topics what kind are realized:

- Lines: find equations, find section-points.
- Factors: factorize a given number, find factors, find HCF.
- Geometry: area and perimeter of square, rectangle and circle.

Linux http://edu.kde.org/kmathtool/

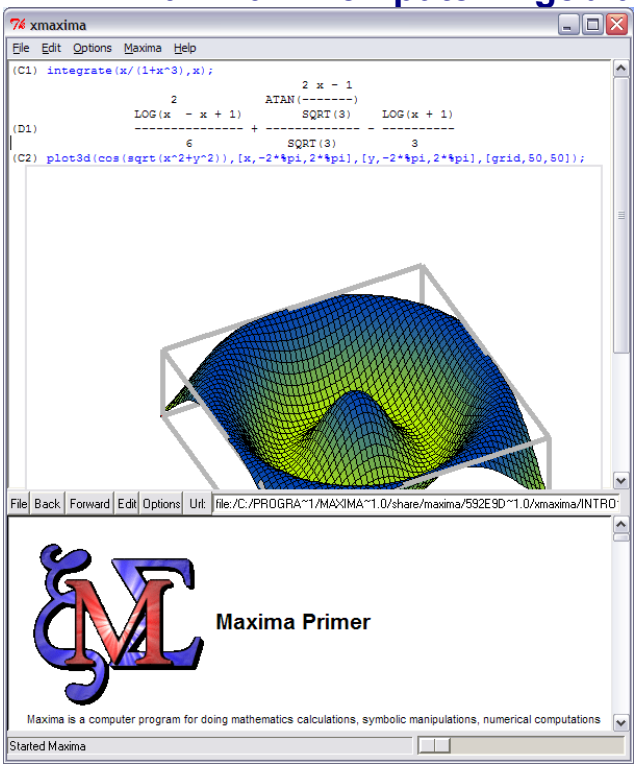
KBruch – Fractional Exercises



KBruch is a small program to practice calculating with fractions. Therefore 4 different exercises are offered: Fraction Task, Comparison, Conversion and Factorisation. In all exercises *KBruch* will generate a task and the user has to solve it. The program checks the input and provides feedback about it.

Linux http://edu.kde.org/kbruch/

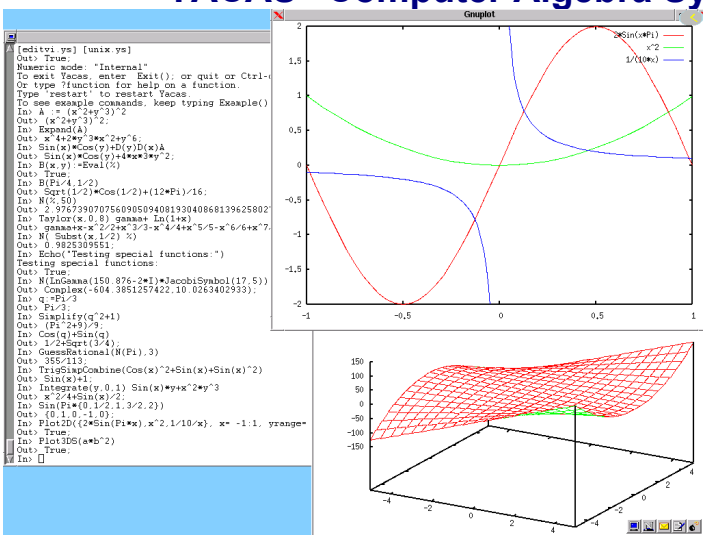
Maxima – Computer Algebra System



Maxima is a system for the manipulation of symbolic and numerical expressions, including differentiation, integration, Taylor series, Laplace transforms, ordinary differential equations, systems of linear equations, and vectors, matrices, and tensors. *Maxima* produces high precision results by using exact fractions and arbitrarily long floating point representations, and can plot functions and data in two and three dimensions.

Windows Linux http://maxima.sourceforge.net/

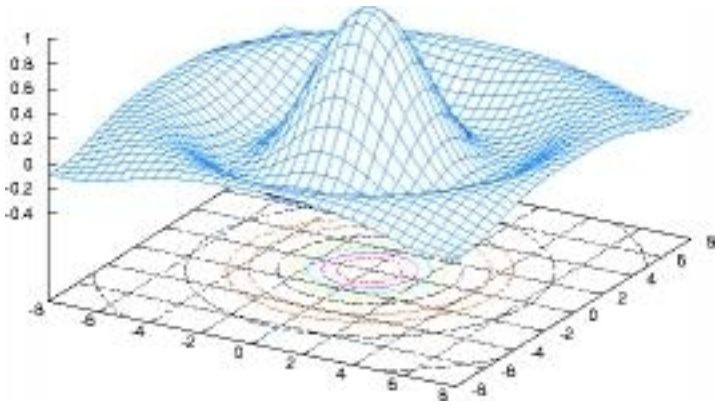
YACAS - Computer Algebra System



YACAS is an easy to use, general purpose Computer Algebra System, a program for symbolic manipulation of mathematical expressions. It uses its own programming language designed for symbolic as well as arbitrary-precision numerical computations. The system has a library of scripts that implement many of the symbolic algebra operations; new algorithms can be easily added to the library.

Windows Linux http://yacas.sourceforge.net/

Octave – Numerical Computations



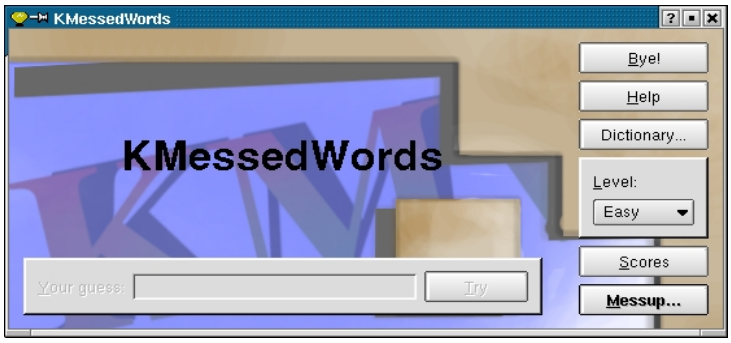
Octave is a high-level language, primarily intended for numerical computations. It provides a convenient command line interface for solving linear and nonlinear problems numerically, and for performing other numerical experiments. It may also be used as a batch-oriented language.

Windows | Mac OS | Linux

http://www.octave.org/

Human Languages

KMessedWords – Jumbled Words

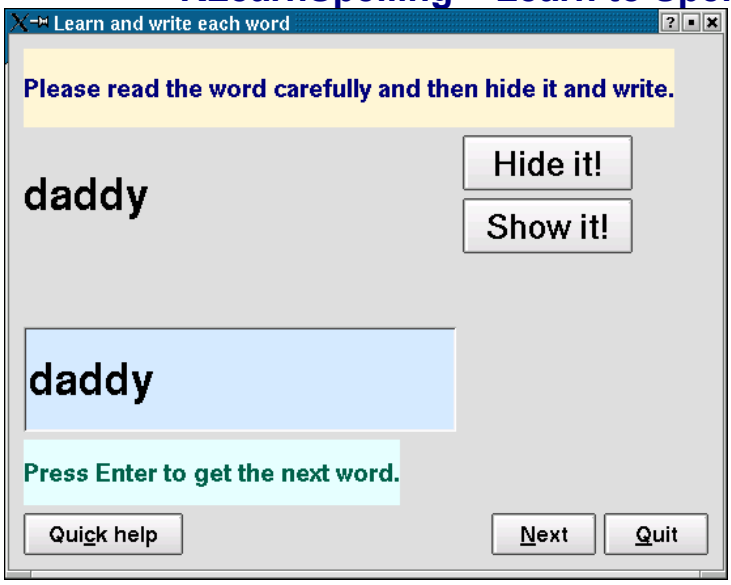


KMessedWords is a simple mind-training game, in which you have to "figure out" the word that has been supplied by the program. This program is ideal of ages 10 and up as the game is harder to solve than it looks.

Linux

http://edu.kde.org/kmessedwords/

KLearnSpelling – Learn to Spell



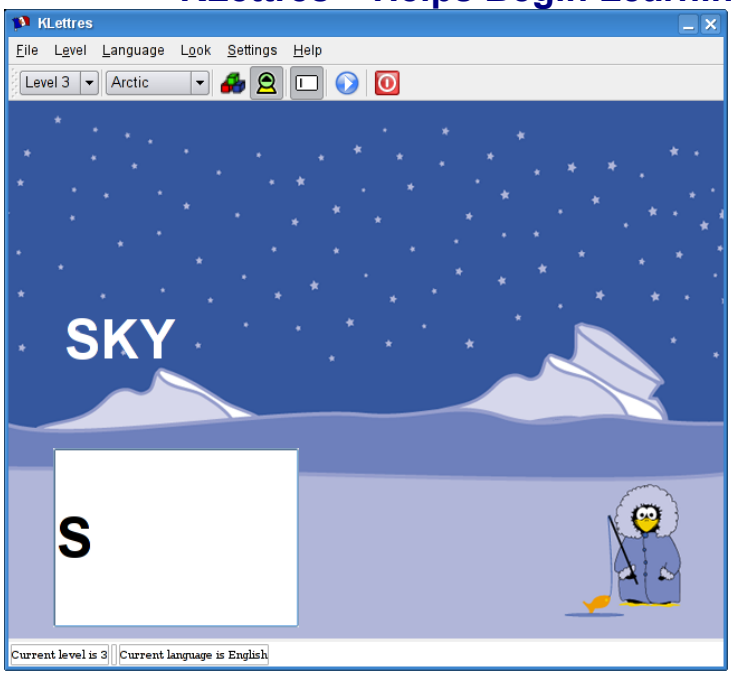
KLearnSpelling aims to help pupils from all around the world to learn their own spelling words. This program has 2 goals:

- to allow the parent or the teacher to type in the list of words
- to help the pupil learn the words and have a test as he will have at school.

Linux

http://edu.kde.org/klearnspelling/

KLettres – Helps Begin Learning Different Languages

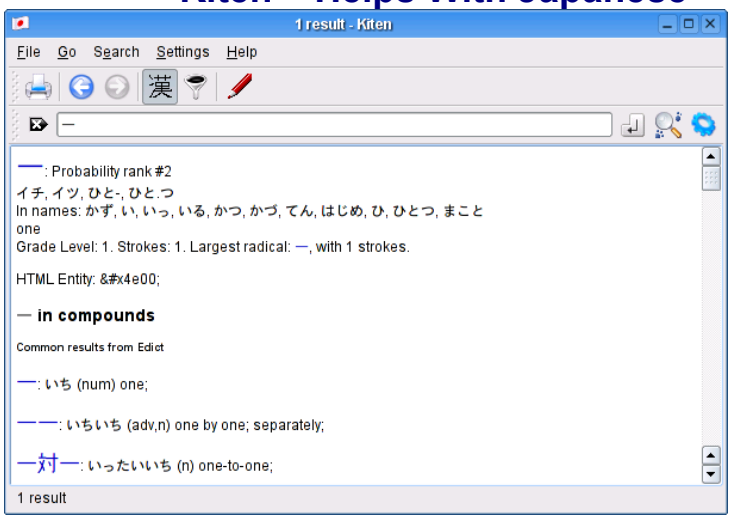


KLettres aims to help learn the alphabet and then to read some syllables in different languages. It is meant to help learning the very first sounds of a new language, for children or for adults.

Linux

http://edu.kde.org/klettres

Kiten – Helps With Japanese

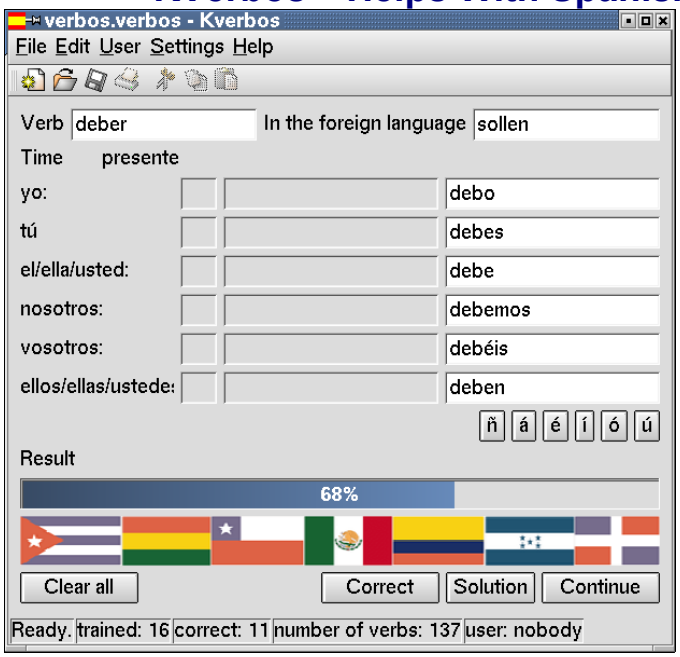


Kiten is a Japanese reference/learning tool.

Linux

http://edu.kde.org/kiten

KVerbos – Helps With Spanish

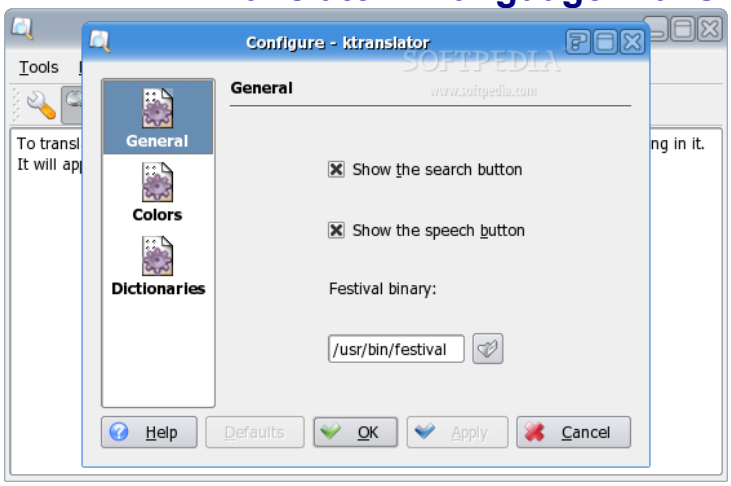


With ***KVerbos*** you can practice the Spanish verb conjugation. The program comes with a large set of Spanish verbs. You can select from a list of over 9 000 verbs the ones you want to train and you can select the tenses, too.

Linux

http://edu.kde.org/kverbos

KTranslator – Language Translator

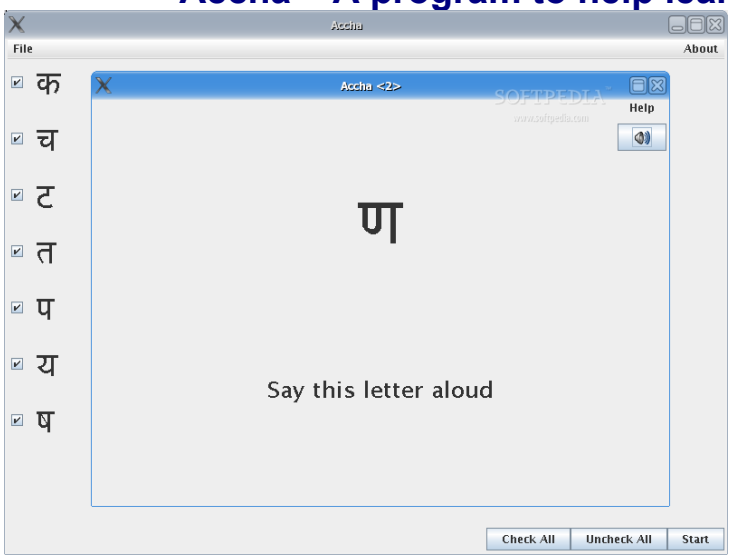


KTranslator is a program to translate words from one language to another. KTranslator should support any language. The main idea behind KTranslator is to translate a word without disturbing the application in use. So, when the user selects a word, KTranslator will try to translate the word and show the result in a pop-up window.

Linux

http://ktranslator.sourceforge.net/

Accha – A program to help learn the Hindi alphabet



Accha is a program intended to help people learn the Hindi alphabet (Devanagari).

Here are some key features of :

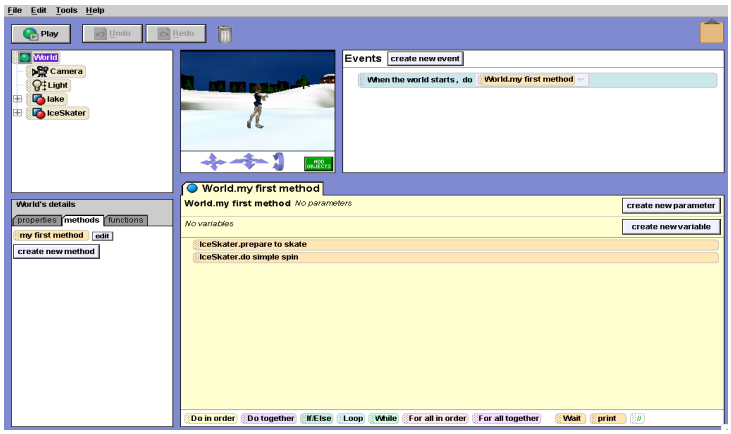
· Unicode display of Devanagari
· Audio of correct pronunciation
· Choose which letters to study
· Phonetic textual input
· Display of previous right answer

Windows Mac OS Linux

http://sourceforge.net/projects/accha/

Computer Programming

Alice



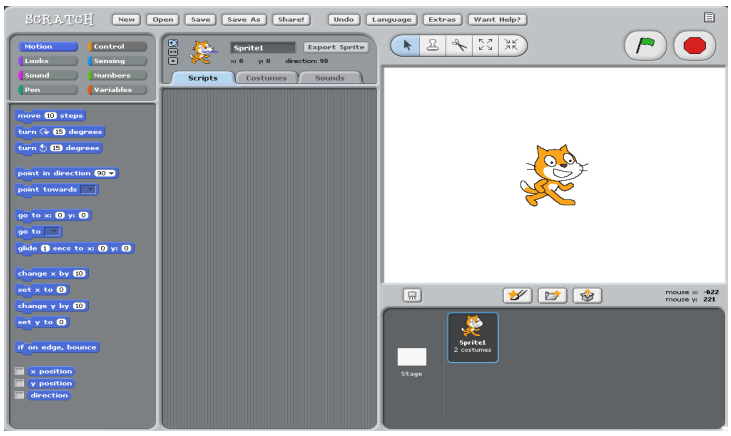
Alice v2.0 is the next major version of the Alice 3D Authoring system, from the Stage3 Research Group at Carnegie Mellon University. It has been completely rewritten from scratch over the past few years.

The focus of the Alice project is now to provide the best possible first exposure to programming for students ranging from middle schoolers to college students.

Windows Mac OS

http://www.alice.org/

Scratch



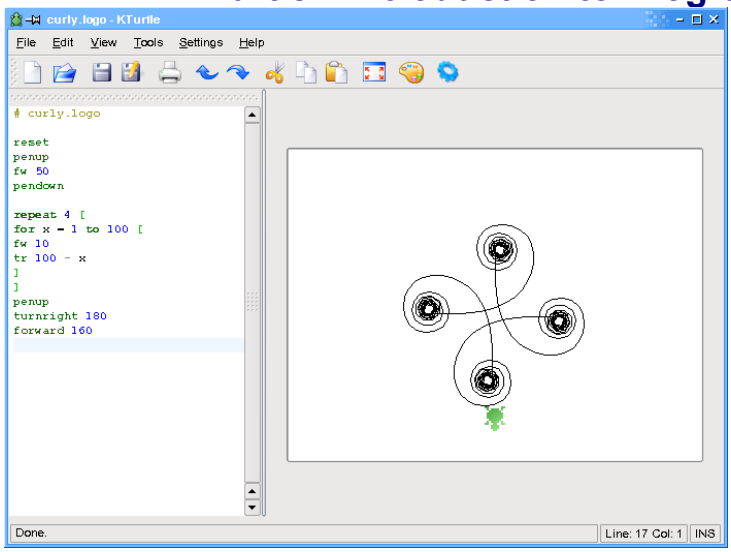
Scratch is a new programming language that makes it easy to create your own interactive stories, animations, games, music, and art -- and share your creations on the web.

Scratch is designed to help young people (ages 8 and up) develop 21st century learning skills.

Windows Mac OS

http://scratch.mit.edu/

KTurtle – Introduction to Programming

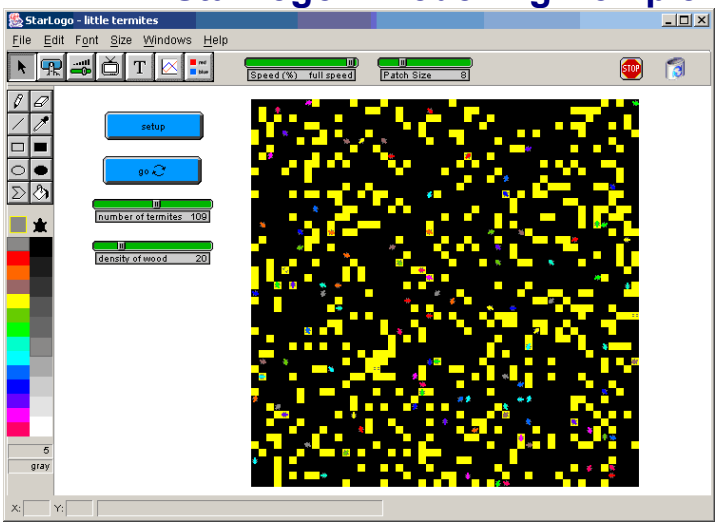


KTurtle is a Logo programming language interpreter. The Logo programming language is very easy and thus it can be used by young children. A unique quality of Logo is that the commands or instructions can be translated, so the 'programmer' can program in his or her native language. This makes Logo ideal for teaching kids the basics of programming, mathematics and geometry. One of the reasons many children like Logo is because of the turtle, a programmable icon which can be moved around the screen with simple commands and can be programmed to draw objects.

Linux

http://edu.kde.org/kturtle/

StarLogo – Modelling Complex Systems



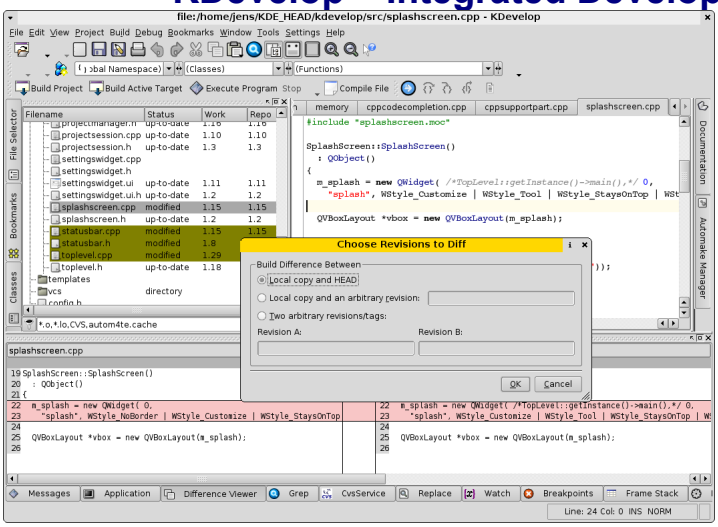
StarLogo is a program used to control "turtles" on the screen, much like Logo. However, unlike Logo, StarLogo enables you to program hundreds or even thousands of turtles and program the "patches" underneath the turtles too!

StarLogo is used primarily for modeling systems that have no leaders. Some examples of these "leaderless" systems in our everyday world are bird flocks, traffic jams, and termite and ant colonies.

Windows Mac OS Linux

http://education.mit.edu/starlogo/

KDevelop – Integrated Development Environment

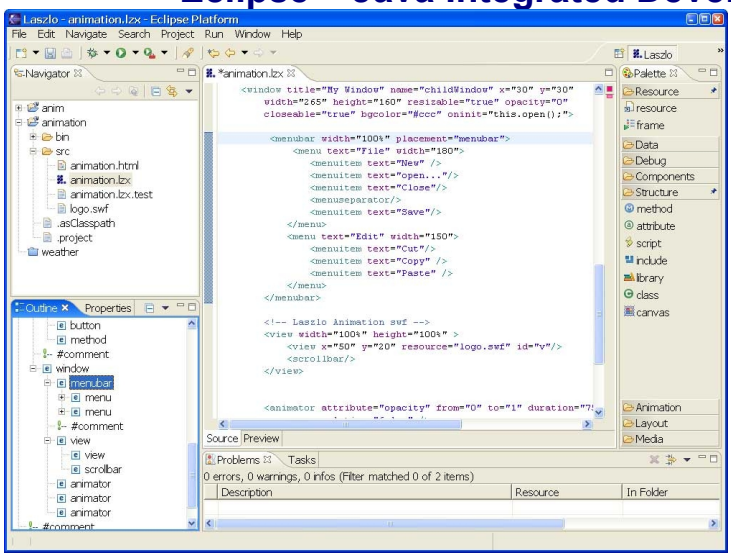


KDevelop is a complete development environment which can be used to program software in most programming languages.

Linux

http://www.kdevelop.org/

Eclipse – Java Integrated Development Environment

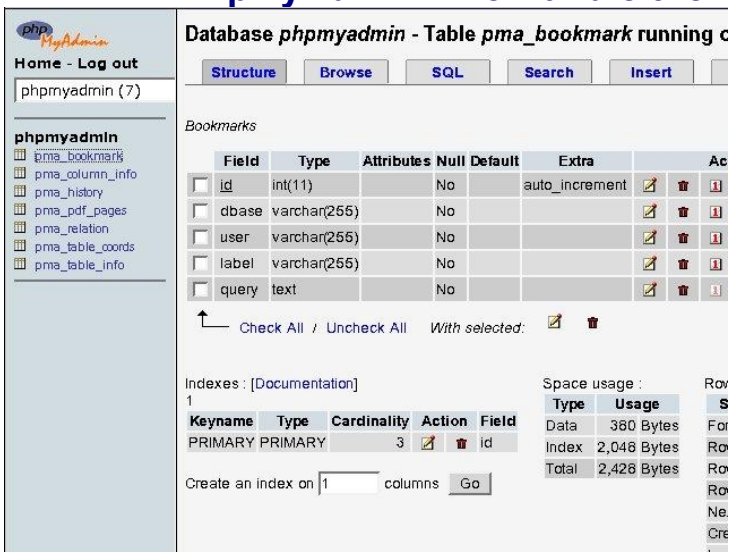


Eclipse is an open source community whose projects are focused on providing an extensible development platform and application frameworks for building software. Eclipse provides extensible tools and frameworks that span the software development lifecycle, including support for modeling, language development environments for Java, C/C++ and others, testing and performance, business intelligence, rich client applications and embedded development.

Windows Mac OS Linux

http://www.eclipse.org/

PhpMyAdmin – To Handle the Administration of MySQL

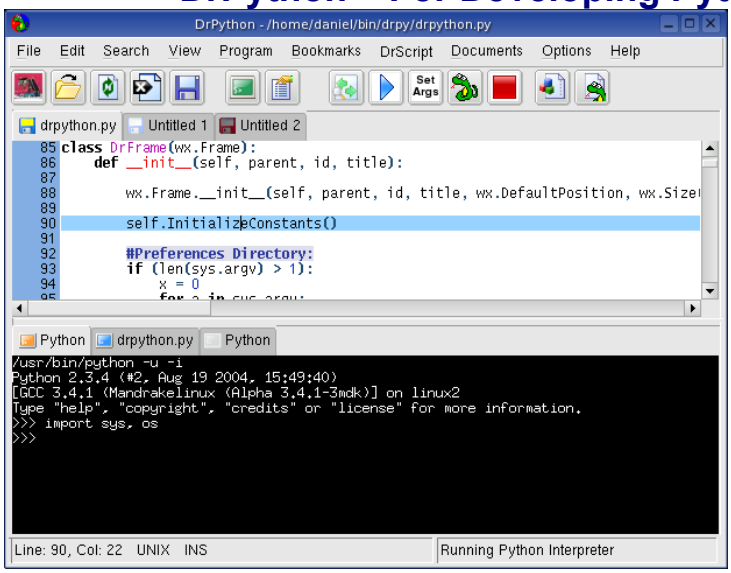


phpMyAdmin is a tool written in PHP intended to handle the administration of MySQL over the Web. It can create, rename, and drop databases, create/drop/alter tables, delete/edit/add fields, execute any SQL statement, manage keys on fields, create dumps of tables and databases, export/import CSV data and administrate one single database and multiple MySQL servers.

Windows Mac OS Linux

http://www.phpmyadmin.net/

DrPython – For Developing Python Programs



DrPython is a highly customizable, simple, and clean editing environment for developing Python programs. It is intended primarily for use in schools, and is a tribute to DrScheme.

Windows Mac OS Linux

http://drpython.sourceforge.net/

Squeak – An Object-oriented Programming Environment

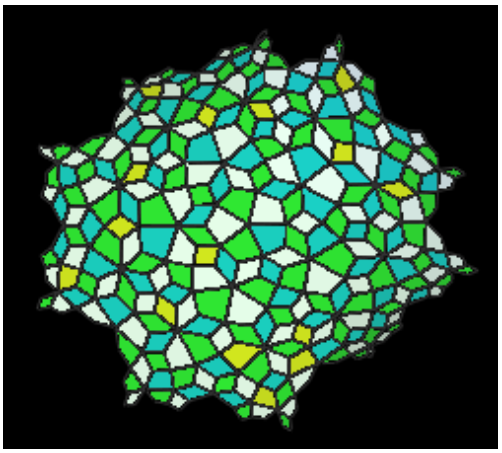
Squeak is an open source and super-portable implementation of a multi-media capable Smalltalk-80 based object-oriented programming environment. It is written entirely in Smalltalk and has a high-performance VM, created by compiling the Smalltalk VM code into efficient and portable C code. It now uses the Self language's Morphic User Interface but still provides the original MVC GUI as well.

Windows | Mac OS | Linux

http://www.squeak.org/

Educational Games

XiStrat – Geometric Recreation



XiStrat (aka 'Extended Strategy') is in particular about turn-based, networked multiplayer, non-cooperative, zero-sum, abstract strategy board games (e.g., Chess, Go, Reversi variants, etc.) on 3D-visualized polyhedra and contains a server, client GUI, autoplayer engine, utilities, and documentation. Related recreational modern mathematics (single agent, cellular automata, graph/group/complexity/knot theory, discrete geometry, algebra, combinatorics, and mathematical physics) is also dealt with.

Windows | Mac OS | Linux

http://xistrat.sourceforge.net

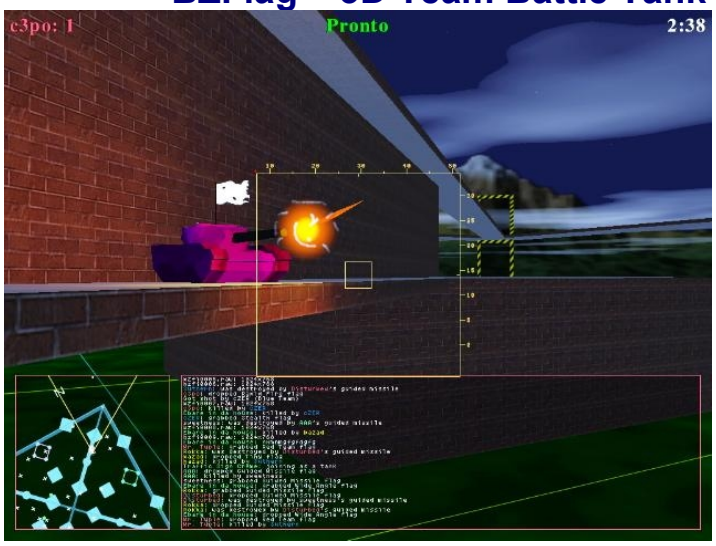
FreeCiv – Competitive Resource Planning Game

Freeciv is a multiuser reimplementation Civilization. Multiuser gameplay is real-time: in each turn, all human players move concurrently. The game is designed to remain fairly playable even on poor network connections. Freeciv can also be played on standalone machines, and its AI players are a good challenge for beginners.

Windows | Mac OS | Linux

http://www.freeciv.org/

BZFlag – 3D Team Battle Tank Strategy Game

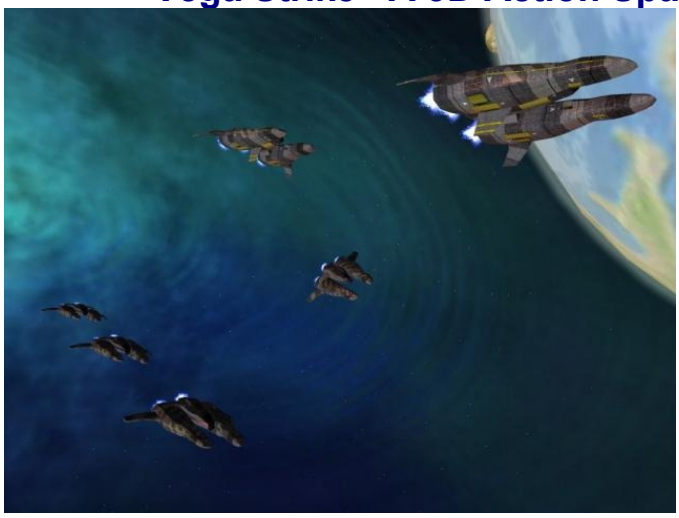


BZFlag is a 3D, multiplayer, tank battle zone, capture the flag game that pits players against each other in a networked environment.

Windows | Mac OS | Linux

http://BZFlag.org/

Vega Strike - A 3D Action Space Simulator.

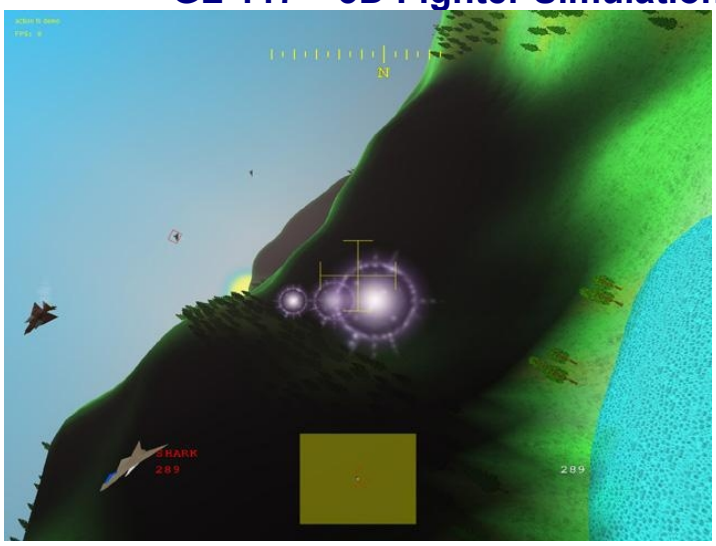


Vega Strike is a Linux action space simulator designed to bring 3D space combat to a whole new level of graphics, gameplay, and customizability.

Windows | Mac OS | Linux

http://vegastrike.sourceforge.net/

GL-117 – 3D Fighter Simulation



GL-117 is an action flight simulator for Linux/Unix and MSWindows. Enter the Eagle Squadron and succeed in several challanging missions leading though different landscapes. Five predefined levels of video quality and an amount of viewing ranges let you perfectly adjust the game to the performance of your system. Joystick, mouse, sound effects, music.

Windows | Mac OS | Linux

http://www.heptargon.de/gl-117/gl-117.html

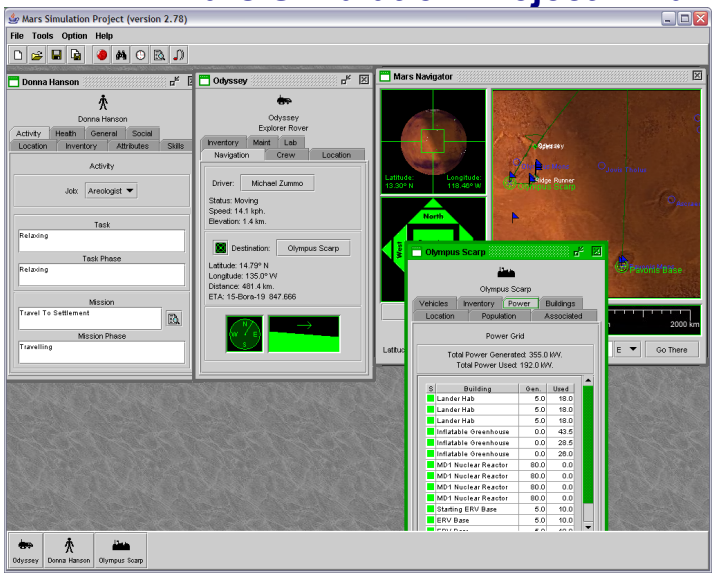
XshipWars – Space Combat & Trading Game

XShipWars is a highly customizable multiplayer space gaming system designed for play over the Internet.

Linux

http://wolfpack.twu.net/ShipWars/XShipWars/

Mars Simulation Project – Human Settlement Simulation



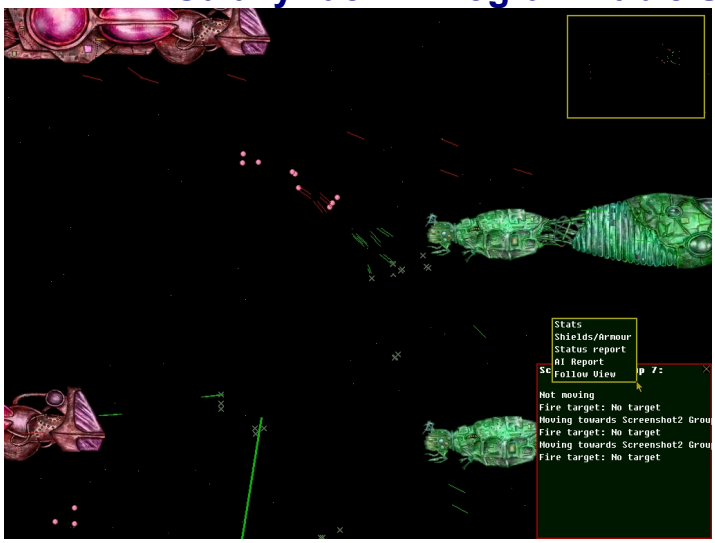
The Mars Simulation Project is a free software Java project to create a simulation of future human settlement of Mars.

The simulation is a multi-agent artificial society set in a detailed virtual world.

Windows Mac OS Linux

http://mars-sim.sourceforge.net/

GalaxyHack – Programmable Starship Battles

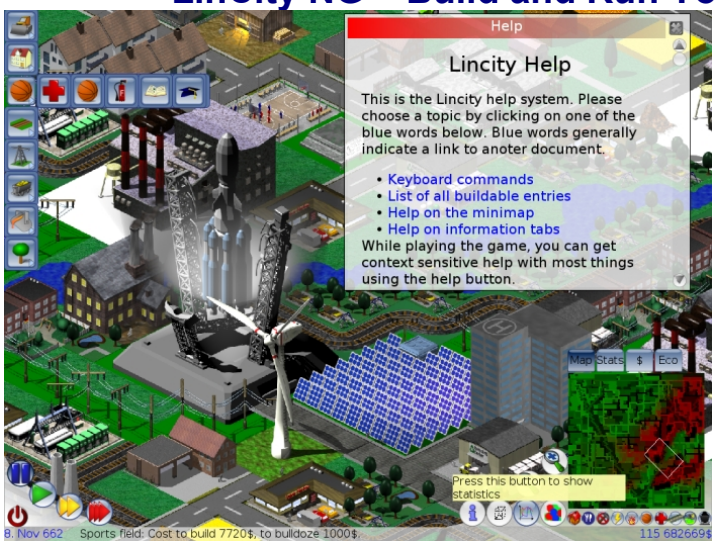


GalaxyHack allows you to design a fleet of spaceships which can then be tested in AI script based battles against fleets designed by other players. Though battles take place in real time, the strategy comes beforehand, both in writing short AI scripts in an easy-to-use proprietary scripting language, and also in the set up and selection of your forces.

Windows Linux

http://galaxyhack.sourceforge.net/

LinCity NG – Build and Run Your Own City

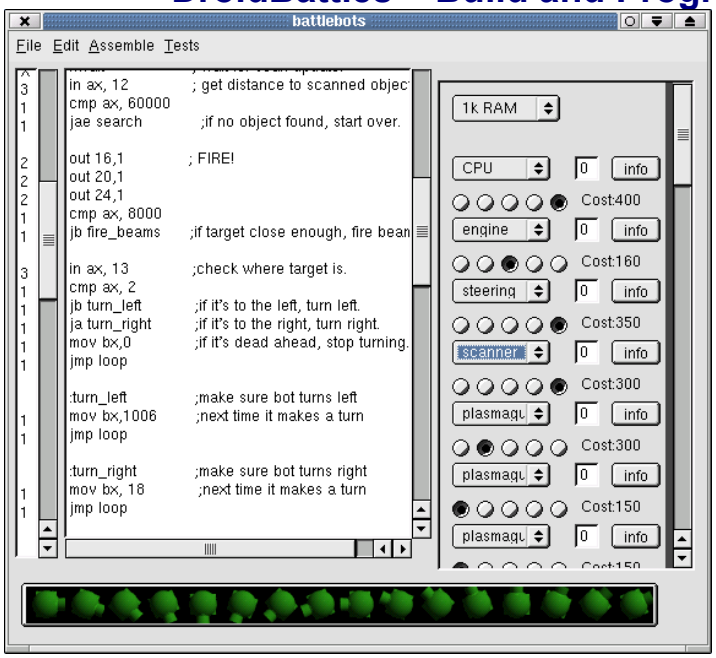


LinCity-NG is a city simulation game. It is a polished and improved version of the classic LinCity game. In the game, you are required to build and maintain a city. You can win the game either by building a sustainable economy or by evacuating all citizens with spaceships.

Windows Linux

http://lincity-ng.berlios.de/wiki/index.php/Main_Page

DroidBattles – Build and Program Your own Battle Droids



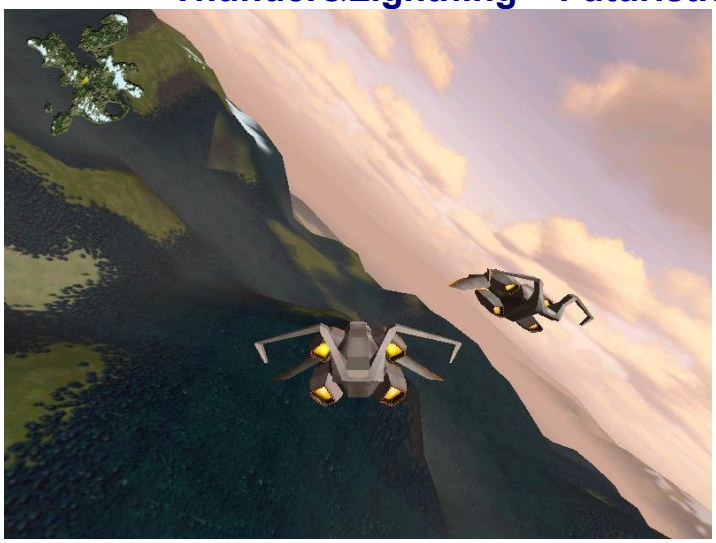
In DroidBattles you design the bots by choosing which hardware they should contain. Each bot can have up to 32 hardware devices that you can choose freely from a list of available types. Examples include weapons, armor, CPU:s, engines... etc.

When you have chosen the hardware it's time to program it. You make a program that is loaded into a virtual RAM of the bot and then executed by the CPU device(s) you've included with the bot. You communicate with your devices through simple in/out instructions.

Linux

http://www.bluefire.nu/droidbattles/

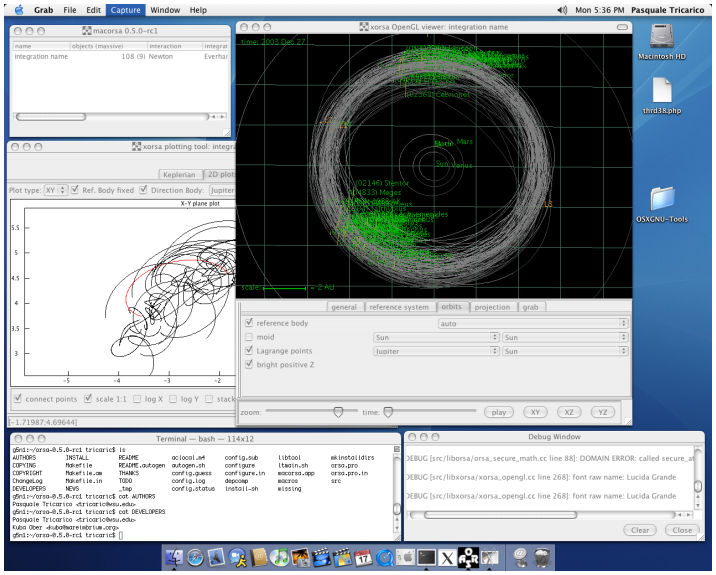
Thunder&Lightning – Futuristic Combat Simulator



Thunder&Lightning is a futuristic action flight simulator game that lets you fly around in your airplane and fight against tanks and other aircraft in a 3D environment.

Windows Linux http://tnlgame.net/

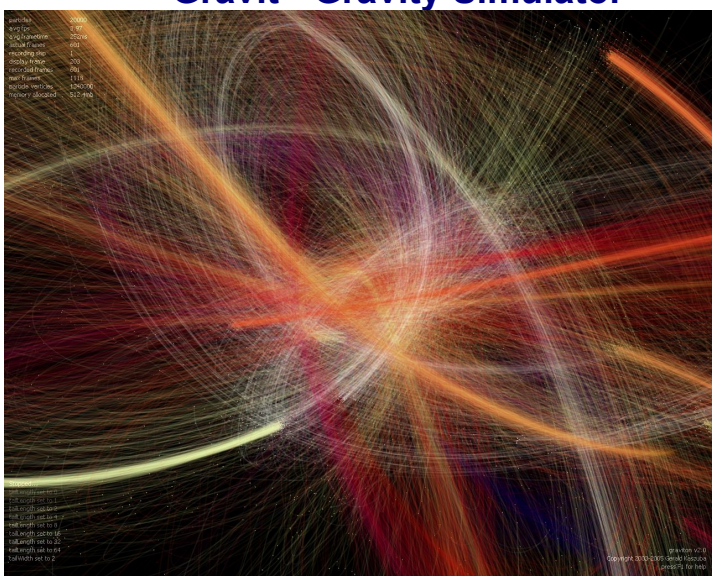
ORSA – Celestial Mechanics Simulation



ORSA is an interactive tool for scientific grade Celestial Mechanics computations. Asteroids, comets, artificial satellites, Solar, and extra-Solar planetary systems can be accurately reproduced, simulated, and analyzed.

Windows Mac OS Linux http://orsa.sourceforge.net/

Gravit - Gravity Simulator

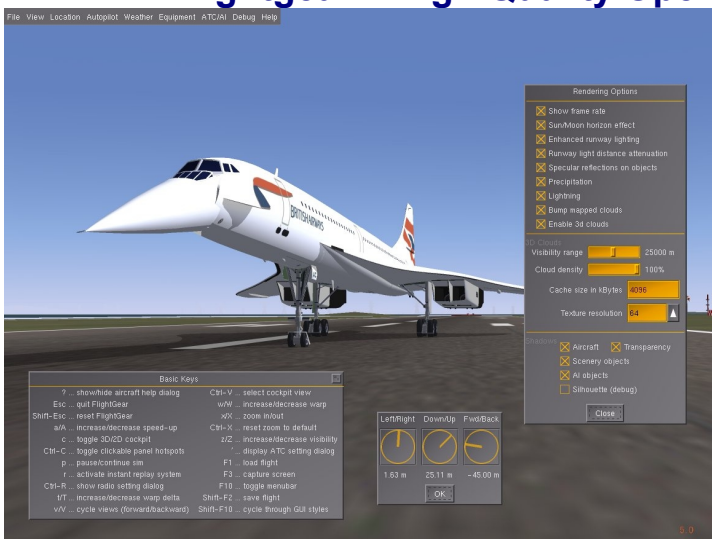


Gravit is a gravity simulator. It uses Newtonian physics using the Barnes-Hut N-body algorithm. Although the main goal of Gravit is to be as accurate as possible, it also creates beautiful looking gravity patterns. It records the history of each particle so that it can animate and display a path of its travels. At any stage you can rotate your view in 3D and zoom in and out.

Windows | Mac OS | Linux

http://gravit.slowchop.com/

Flightgear – High Quality Open Flight Sim

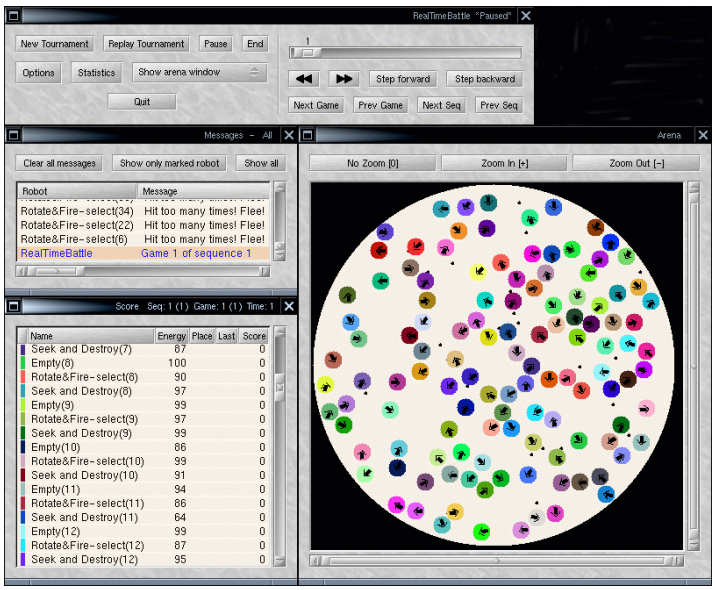


The Flight Gear Flight Simulator project is a free, open-source, multi-platform, cooperative flight sim development project. Source code for the entire project is available and licensed under the GPL. The Flight Gear project is working to create a sophisticated flight simulator framework for the development and pursuit of interesting flight simulator ideas.

Windows | Mac OS | Linux

http://www.flightgear.org/

RealTimeBattle – Fun Software Development



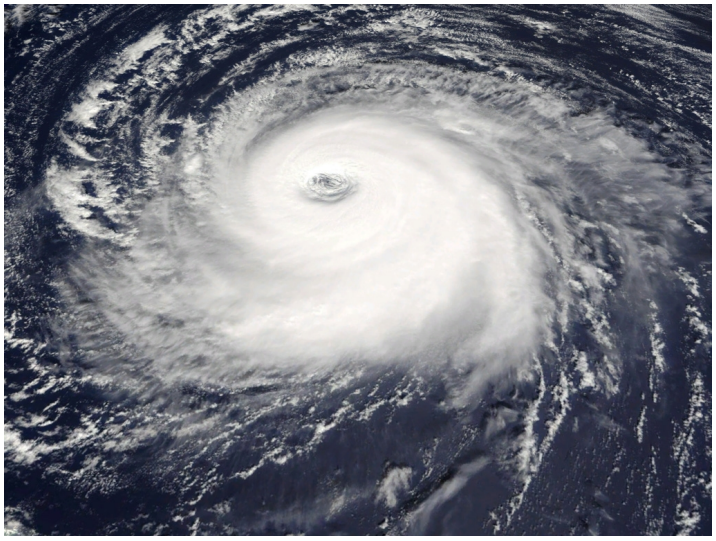
RealTimeBattle is a programming game, in which robots controlled by programs are fighting each other. The goal is to destroy the enemies, using the radar to examine the environment and the cannon to shoot.

Robots can be constructed in almost any programming language. Any number of robots can compete simultaneously if allowed by your operating system. A simple messaging language is used for communication, which makes it easy to start constructing robots.

Linux

http://realtimebattle.sourceforge.net/

NASA World Wind – Earth Discover Tool



World Wind lets you zoom from satellite altitude into any place on Earth. Leveraging Landsat satellite imagery and Shuttle Radar Topography Mission data, World Wind lets you experience Earth terrain in visually rich 3D, just as if you were really there.

Virtually visit any place in the world. Look across the Andes, into the Grand Canyon, over the Alps, or along the African Sahara.

Windows

http://worldwind.arc.nasa.gov/

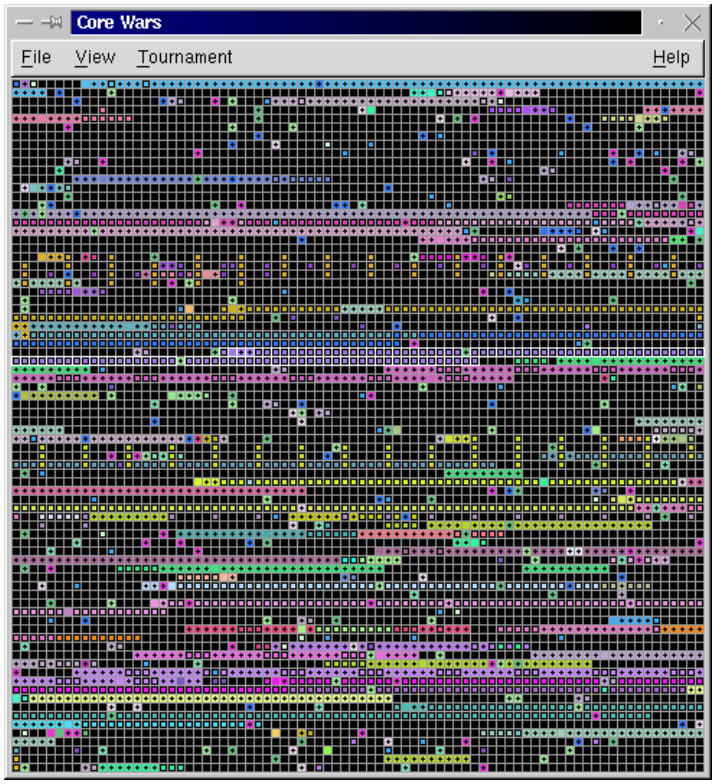
Battle for Wesnoth – Real Time Strategy Team Game

The Battle for Wesnoth is a free, turn-based strategy game with a fantasy theme. Fight to regain the throne of Wesnoth, of which you are the legitimate heir, or use your dread power over the Undead to dominate the land of mortals, or lead your glorious Orcish tribe to victory against the humans who dared despoil your lands … Wesnoth has many different sagas waiting to be played out. You can create your own custom units, and write your own scenarios – or even full-blown campaigns.

Windows | Mac OS | Linux

http://www.wesnoth.org/

Core Wars – Machine Code Warriors



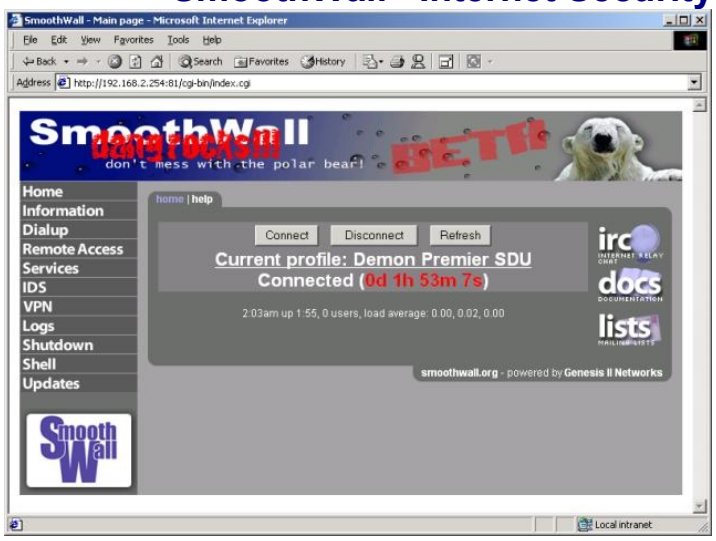
Core Wars is a programming game wherein players write Warriors that fight it out to the death in a virtual 'ring'. These warriors are written in a special assembly language called "Redcode" and played in a simulated environment known as "MARS"

Windows | Linux

http://www.corewars.org/

Computer Infrastructure for Schools

SmoothWall - Internet Security Software Package

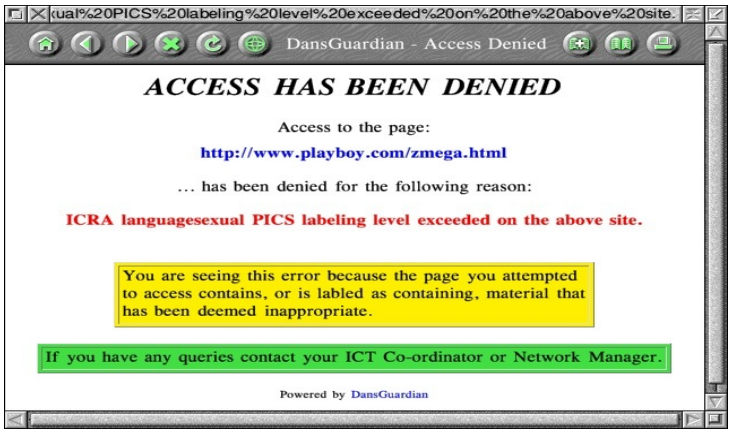


SmoothWall is a popular Internet Security software package (based on Linux) offering automated modem/advanced ISDN autoprobing, ethernet ADSL/cable, USB ADSL, and multiple ethernet card support within 5 minutes of install. Web managed and with full facilities normally only seen in expensive commercial offerings, it also offers SSH, DHCP, and full firewall logging and auditing functionality.

Windows | Mac OS | Linux

http://www.smoothwall.org/

DansGuardian - TrueWeb Content Filtering



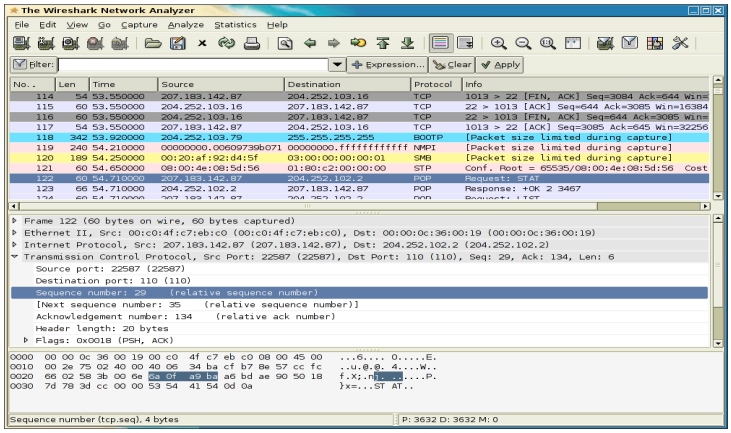
DansGuardian is an award winning Open Source web content filter which currently runs on Linux, FreeBSD, OpenBSD, NetBSD, Mac OS X, HP-UX, and Solaris. It filters the actual content of pages based on many methods including phrase matching, PICS filtering and URL filtering. It does not purely filter based on a banned list of sites like lesser totally commercial filters.

DansGuardian is designed to be completely flexible and allows you to tailor the filtering to your exact needs.

Windows | Mac OS | Linux

http://dansguardian.org/

Wireshark - Network Protocol Analyzer



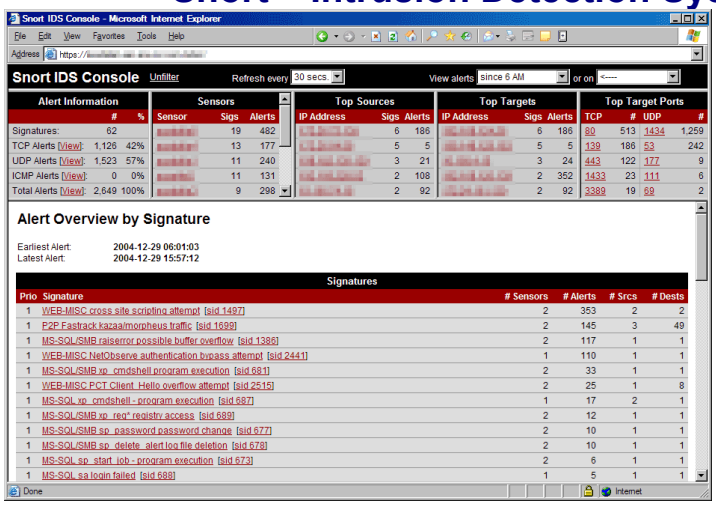
Wireshark's powerful features make it the tool of choice for network troubleshooting, protocol development, and education worldwide.

The **Ethereal** network protocol analyzer has changed its name to Wireshark.

Windows Linux

http://www.wireshark.org/

Snort – Intrusion Detection System

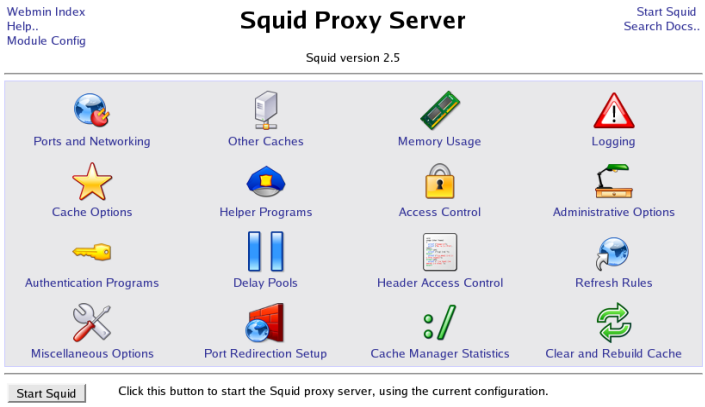


Snort is an open source network intrusion prevention and detection system utilizing a rule-driven language, which combines the benefits of signature, protocol and anomaly based inspection methods. With millions of downloads to date, Snort is the most widely deployed intrusion detection and prevention technology worldwide and has become the de facto standard for the industry.

Windows Mac OS Linux

http://www.snort.org/

Squid - High Performance Web Proxy Cache

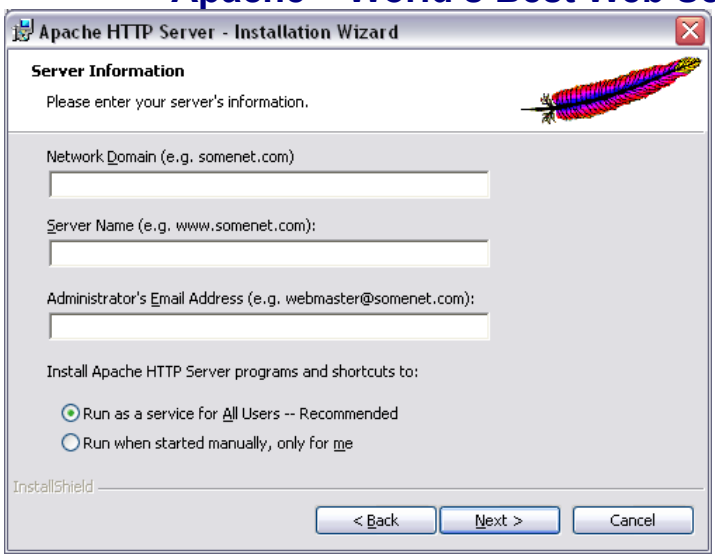


Squid is a high performance Web proxy cache that can be arranged hierarchically for an improvement in response times and a reduction in bandwith usage. Squid runs on all popular Unix and Windows platforms.

Windows Mac OS Linux

http://www.squid-cache.org/

Apache – World's Best Web Server Server

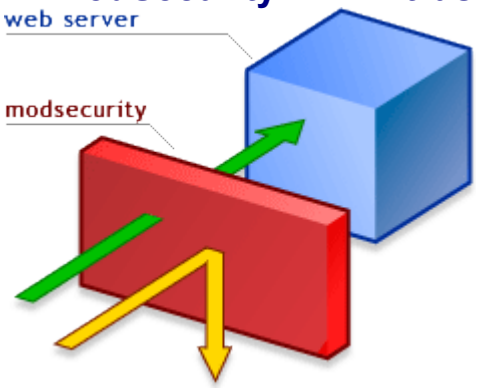


Apache is the world's most popular HTTP server, being quite possibly the best around in terms of functionality, efficiency, security and speed.

Windows Mac OS Linux

http://www.apache.org/

ModSecurity - An Intrusion Detection and Prevention

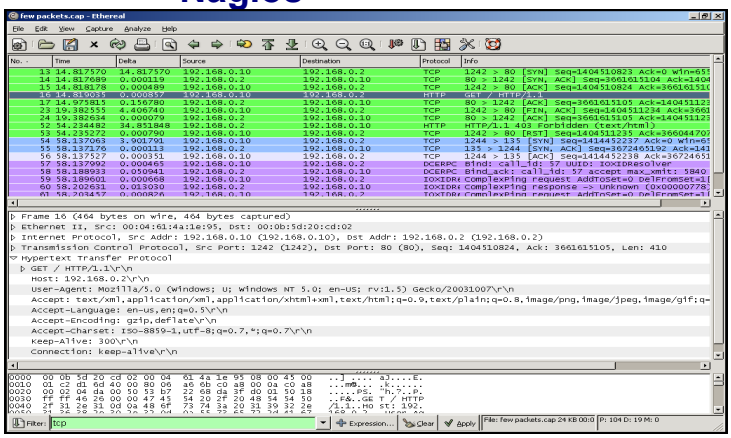


ModSecurity is an intrusion detection and prevention engine for Web applications (sometimes called a Web application firewall). Operating embedded or as part of an Apache reverse proxy, it increases Web application security, protecting Web applications from known and unknown attacks. It is flexible and easy to configure. It monitors HTTP traffic, detects or prevents attacks, enhances logging, performs anti-evasion, and allows administrators to create custom rules to suit their specific needs.

Windows | Mac OS | Linux

http://www.modsecurity.org/

Nagios

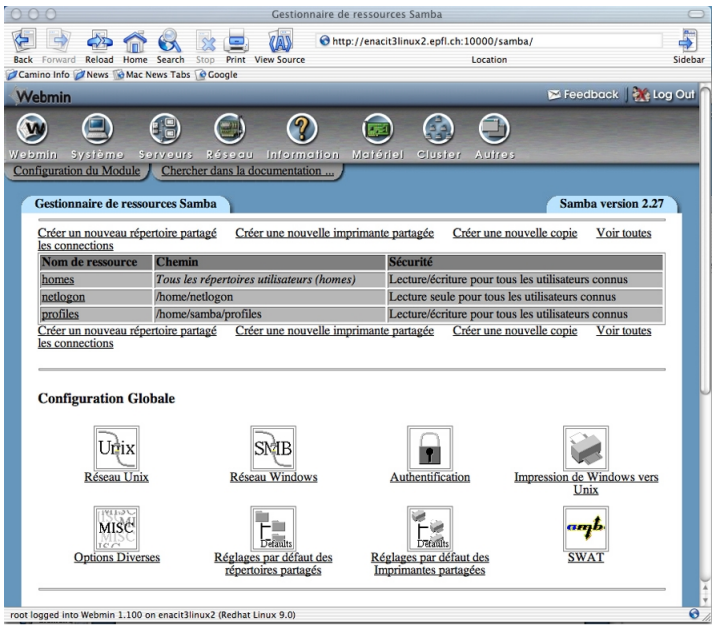


Nagios is a host and service monitor designed to inform you of network problems before your clients, end-users or managers do. It has been designed to run under the Linux operating system. The monitoring daemon runs intermittent checks on hosts and services you specify using external "plugins" which return status information to Nagios.

Linux

http://www.nagios.org/

Samba – Windows Network File Sharing Server



The Samba software suite is a collection of programs that implements the SMB protocol for unix systems, allowing you to serve files and printers to Windows, NT, OS/2 and DOS clients. This protocol is sometimes also referred to as the LanManager or Netbios protocol.

Windows | Mac OS | Linux

http://www.samba.org/

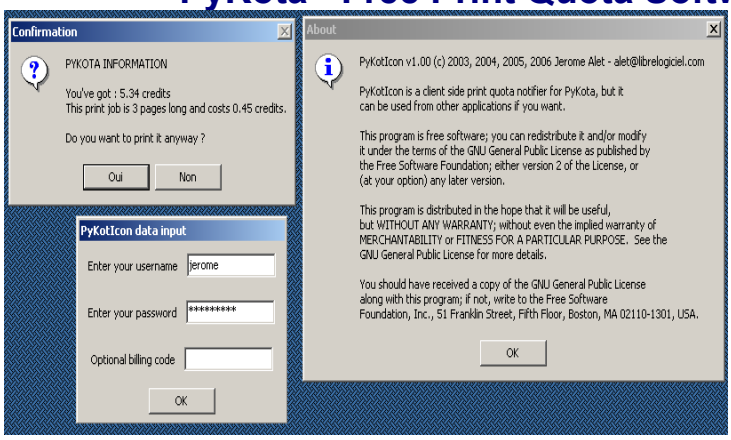
Securepoint Security Suite – A Complete Firewall

Securepoint Security Suite is a complete firewall, content filter, spam filter, authentication and VPN software system with an OS based on a secure Linux. VPN functions support PPTP/IPSec. You can use the firewall on a standard PC with 2 to 16 network cards (Ethernet/ADSL). It supports journaling filesystems/RAID.

Linux

http://www.securepoint.cc/

PyKota - Free Print Quota Software



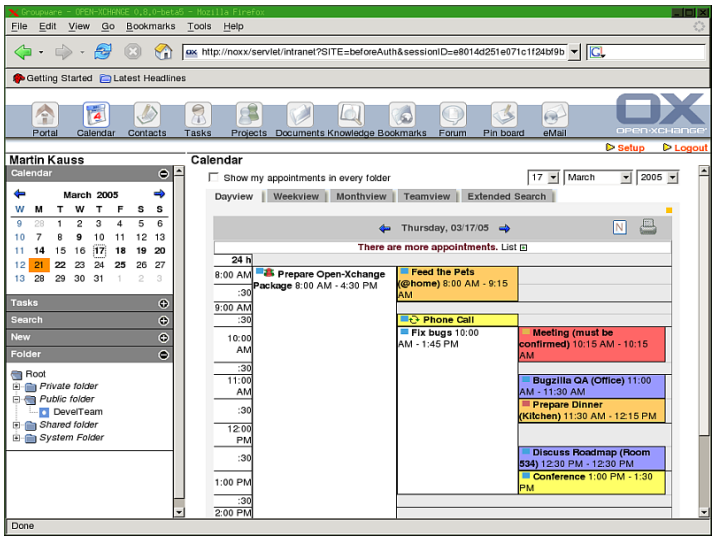
PyKota is Free Print Quota Software, meaning that in addition to print accounting, you can enforce restrictions on print usage

Linux

http://www.pykota.com/

Information System Solutions

OPEN-XCHANGE – Collaboration & Integration Server

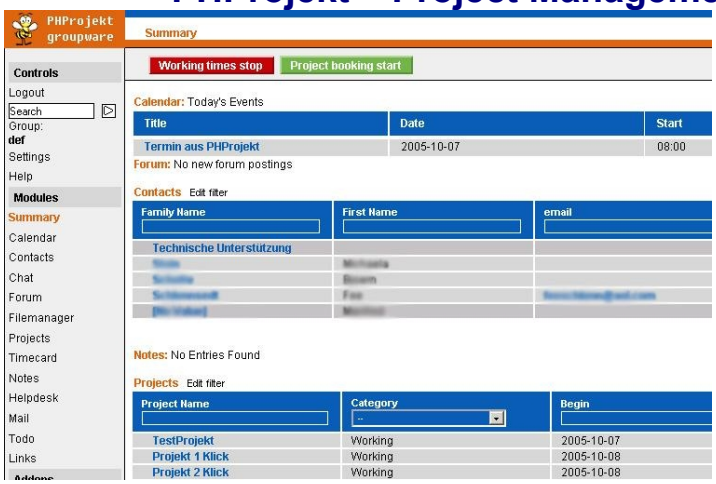


The OPEN-XCHANGE Collaboration and Integration Server Environment allows you to store appointments, contacts, tasks, email messages, bookmarks, documents, and many more elements, and share them with other users. It can be accessed via any modern Web browser and multiple fat clients like MS Outlook, Palm devices, KDE Kontact, Apple's iCAL, Konqueror, Mozilla Calendar, and many more, based on open standards and interfaces.

Windows Mac OS Linux

http://www.open-xchange.com/header/community_area.html

PHProjekt – Project Management

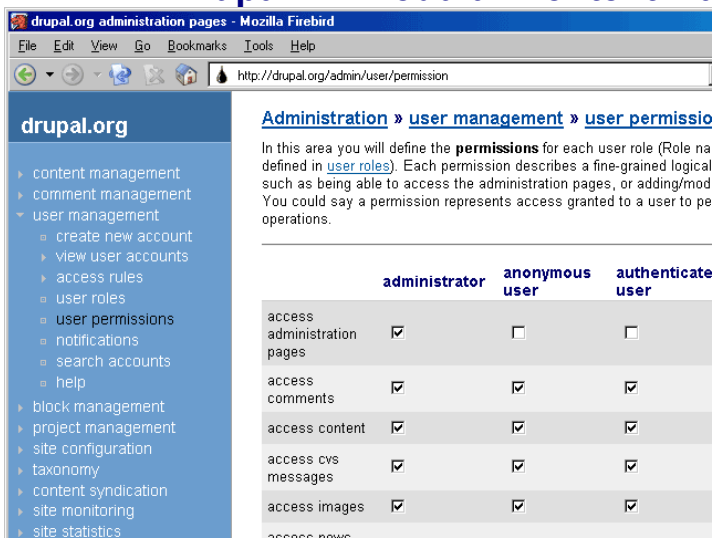


PHProjekt is a groupware suite which supports communication and management of teams and companies via an Intranet and the Internet. It consists of multiple components, including a group calendar with resource booking, a time card system, project management, a request tracker, a mutual filesystem, a contact manager, a mail client, a forum, chat, notes, shared bookmarks, todo lists, a voting system, and reminders.

Windows Mac OS Linux

http://www.phprojekt.com/index.php?&newlang=eng

Drupal - A Modular Content Management System



Drupal is a modular content management system, forum, blogging and community engine. It is database driven and can be used with MySQL, MySQLi and PostgreSQL. Its features include discussion forums, Web-based administration, theme support, a submission queue, content rating, content versioning, taxonomy support, user management with a fine-grained permission system based on user roles (groups), error logging, support for content syndication, locale support, and much more.

Windows Mac OS Linux

http://drupal.org/

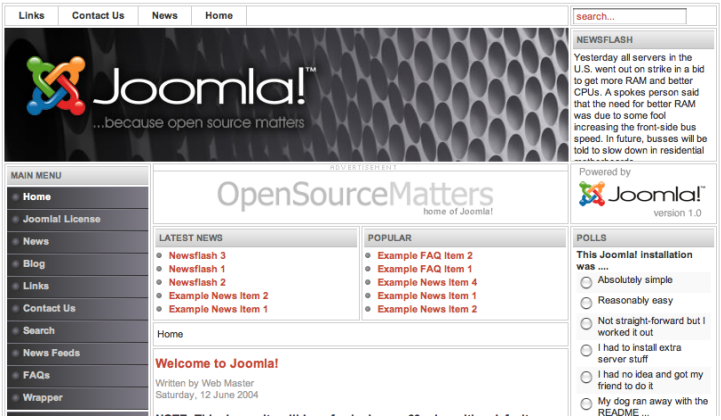
Mambo

Mambo is an award winning, feature rich content management system; it is used for everything from simple marketing websites to complex portals. The project is over 6 years old and backed by the non-profit Mambo Foundation.

Windows Mac OS Linux

http://www.mambo-foundation.org/

Joomla!

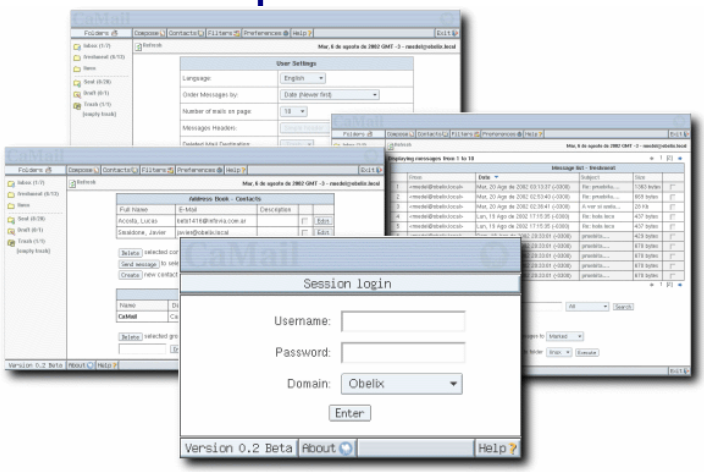


Joomla! is one of the most powerful Open Source Content Management Systems on the planet. It is used all over the world for everything from simple websites to complex corporate applications. Joomla! is easy to install, simple to manage, and reliable.

Windows Mac Linux

http://www.joomla.org/

GroupOffice – Web-based Groupware

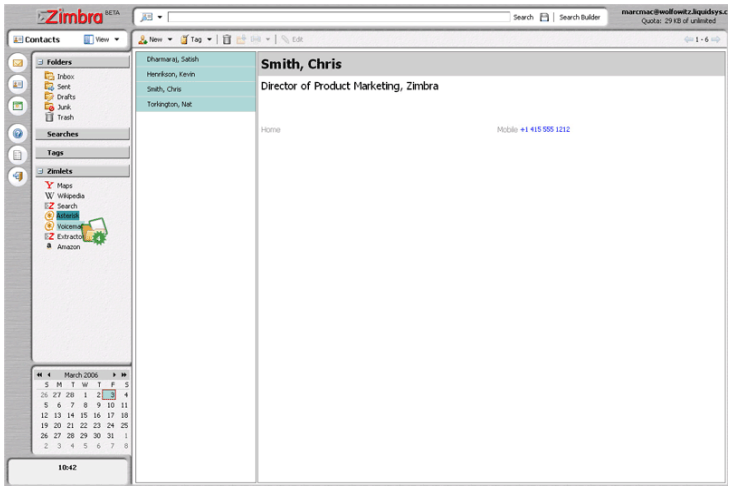


Group-Office is a powerful modular Internet/Intranet application framework. It features calendaring, project management, e-mail, tasks, address book, file management.

Linux

http://sourceforge.net/projects/group-office/

Zimbra

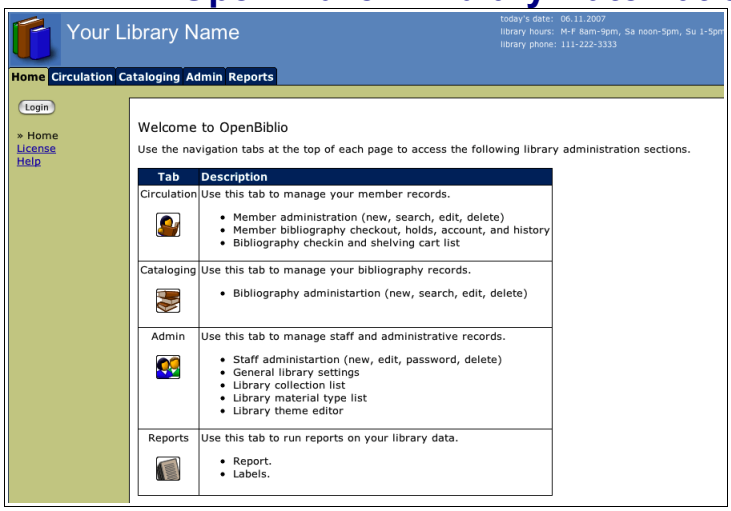


Zimbra is open source, next-generation collaboration and messaging software.

Mac OS | Linux

http://www.zimbra.com/

OpenBiblio – Library Automation Software

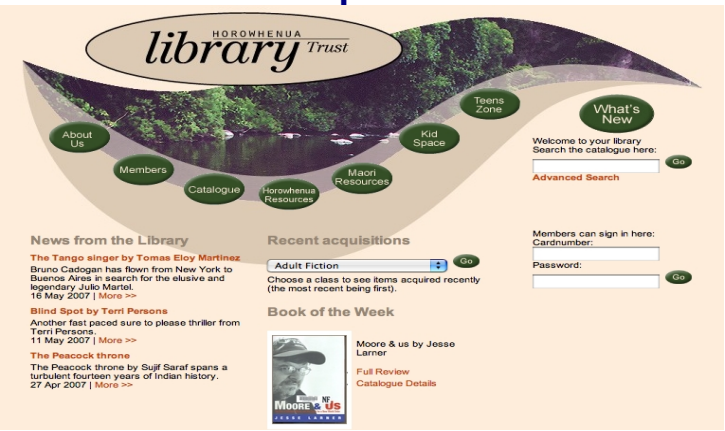


OpenBiblio is an easy to use, automated library system written in PHP containing OPAC, circulation, cataloging, and staff administration functionality.

Windows | Mac OS | Linux

http://obiblio.sourceforge.net/

Koha – Open Source ILS

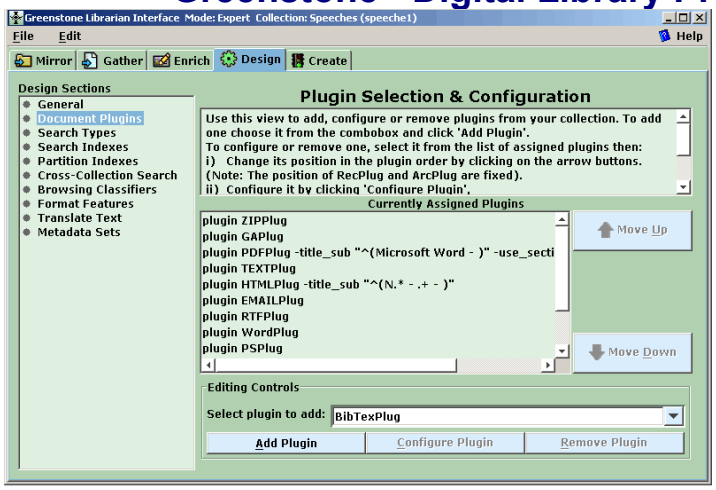


Koha is a full-featured open-source ILS. Developed initially in New Zealand by Katipo Communications Ltd and first deployed in January of 2000 for Horowhenua Library Trust, it is currently maintained by a team of software providers and library technology staff from around the globe.

Windows Mac OS Linux

http://www.koha.org/

Greenstone - Digital Library Project

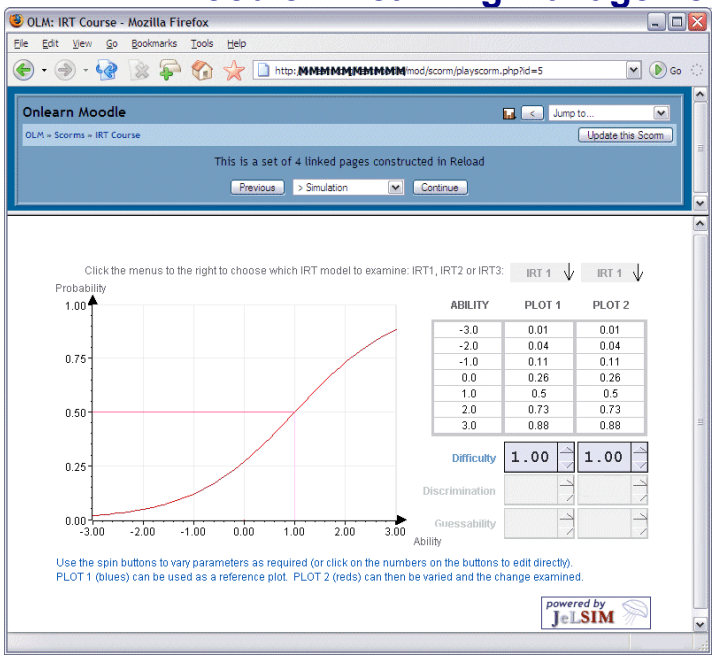


Greenstone is a suite of software for building and distributing digital library collections. It provides a new way of organizing information and publishing it on the Internet or on CD-ROM.

Windows Mac OS Linux

http://www.greenstone.org/

Moodle - Learning Management System

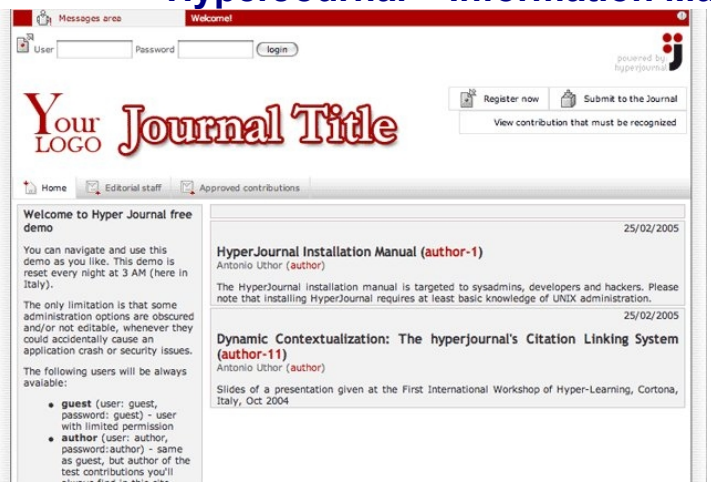


Moodle is a course management system (CMS) - a free, open source software package designed using sound pedagogical principles, to help educators create effective online learning communities. You can download and use it on any computer you have handy (including webhosts), yet it can scale from a single-teacher site to a 40,000-student University.

Windows Mac OS Linux

http://moodle.org/

HyperJournal – Information Manager

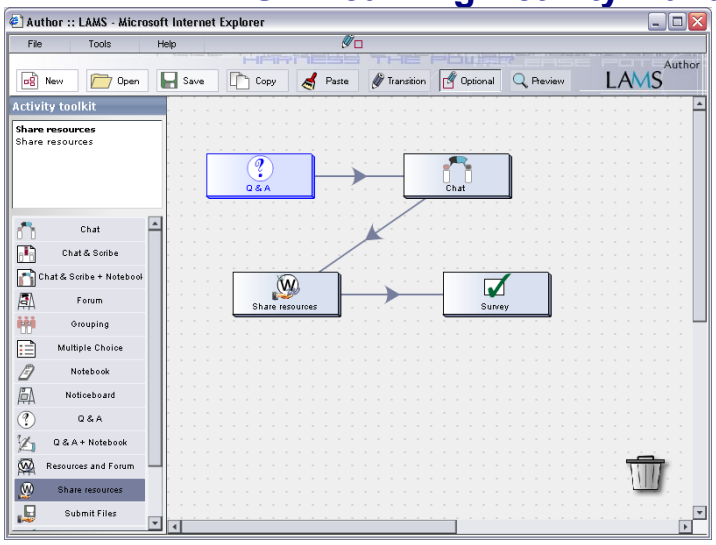


The HyperJournal is a free web application which enables on-line as well as printed publishing in an innovative and significantly cost-cutting way. The HyperJournal can be easily installed and managed without any out-of-the-ordinary IT-competence.

Windows Mac OS Linux

http://www.hjournal.org/

LAMS – Learning Activity Management System

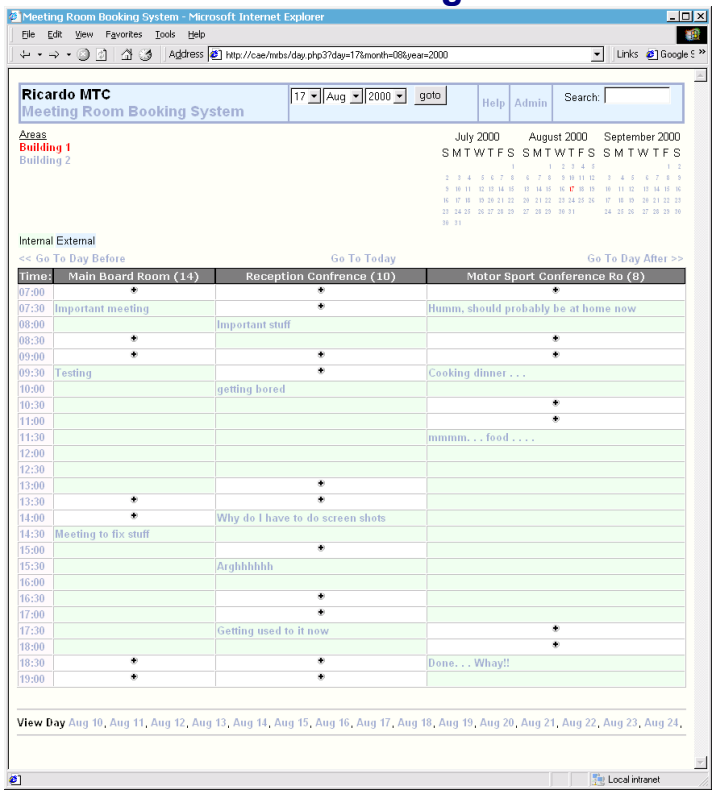


LAMS is a revolutionary new tool for designing, managing and delivering online collaborative learning activities. It provides teachers with a highly intuitive visual authoring environment for creating sequences of learning activities. These activities can include a range of individual tasks, small group work and whole class activities based on both content and collaboration.

Windows Mac OS Linux

http://www.lamsfoundation.org/

MRBS – Meeting Room Booking System

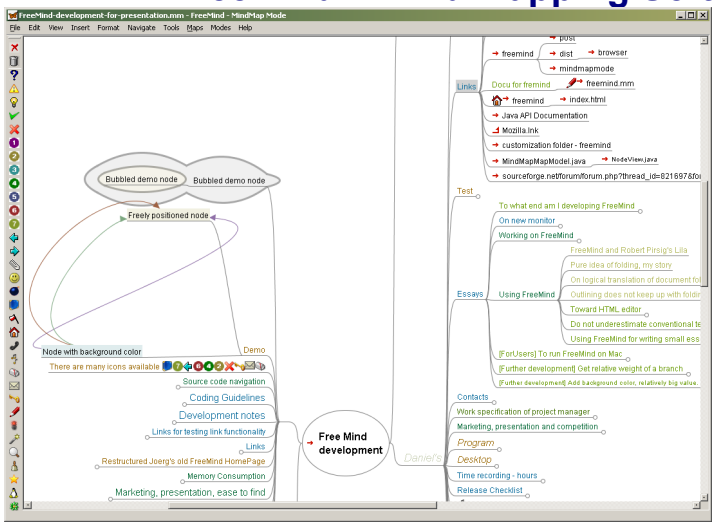


A simple web-based booking system for meeting rooms. Simple to follow, Web based options and intuitive presentation. Flexible Repeating Bookings. Authentication with your existing user database (eg Netware, NT Domain, NIS etc.). Ensures that conflicting entries cannot be entered

Windows Mac OS Linux

http://mrbs.sourceforge.net/

FreeMind – Mind Mapping Software

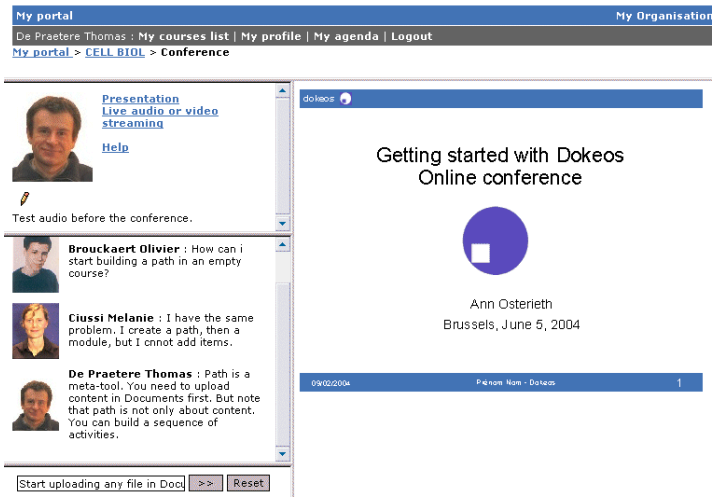


FreeMind is a premier free mind-mapping software written in Java. The recent development has hopefully turned it into high productivity tool. We are proud that the operation and navigation of FreeMind is faster than that of MindManager because of one-click "fold / unfold" and "follow link" operations.

Windows Mac OS Linux

http://freemind.sourceforge.net/wiki/index.php/Main_Page

DOKEOS – eLearning System



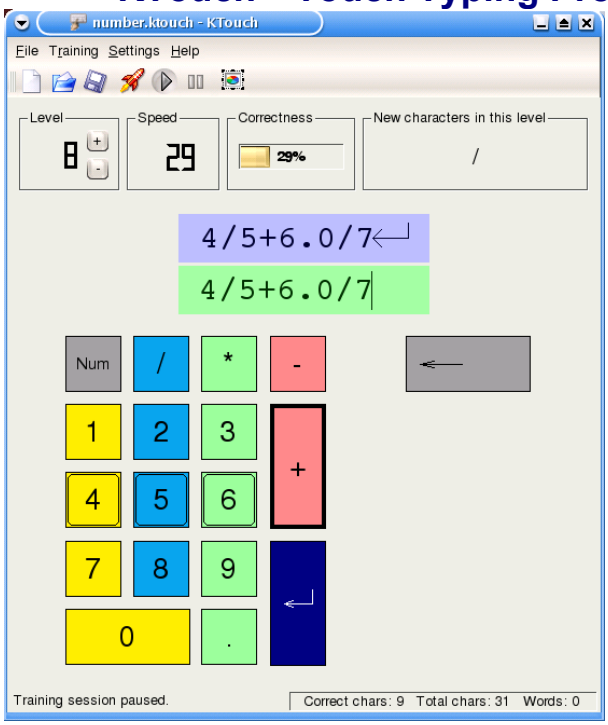
Dokeos is an Open Source elearning and course management web application translated in 34 languages and helping more than 1.000 organisations worldwide to manage learning and collaboration activities.

Windows Mac OS Linux

http://www.dokeos.com/

Primary School Children

KTouch – Touch Typing Program



KTouch is a program for learning touch typing. KTouch is a way to learn to type on a keyboard quickly and correctly. Every finger has its place on the keyboard with associated keys to press.

KTouch helps you learn to touch typing by providing you with something to write. KTouch can also help you to remember what fingers to use.

Linux

http://edu.kde.org/ktouch/

TuxPaint – Fun Paint Program for Kids

Tux Paint is a free, award-winning drawing program for children ages 3 to 12 (preschool and K-6). It combines an easy-to-use interface, fun sound effects, and an encouraging cartoon mascot who guides children as they use the program.

Kids are presented with a blank canvas and a variety of drawing tools to help them be creative.

Windows Mac OS Linux

http://www.tuxpaint.org/

Pysycache – Application for teaching to move the mouse

PySyCache is an educational software for young children (4 to 7 years old) The targeted users of PySyCache are young kids, but they may be older (i.e. users which aren't used to computers) or disabled persons (PySyCache used in their rehabilitation)

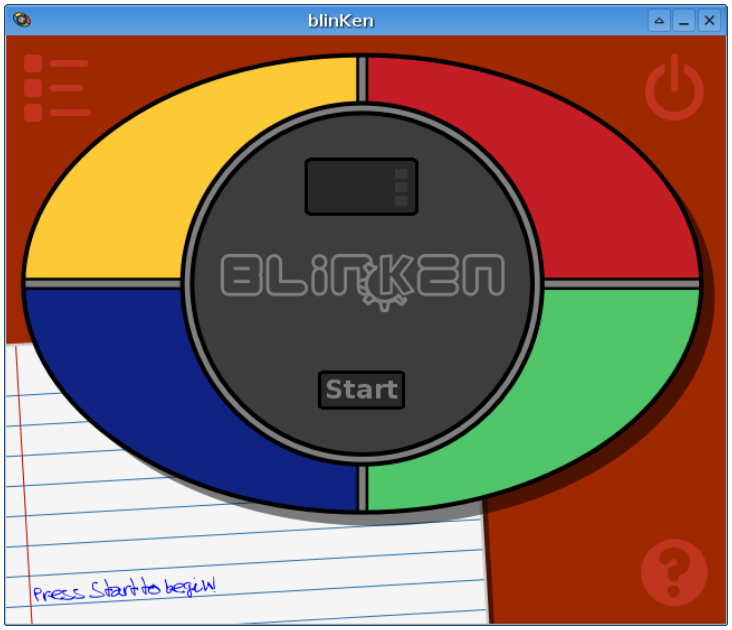
The main purpose is helping them in using the mouse like:

- mouse movements
- clicks (with left, right or middle buttons)
- drag and drop

Windows | Mac OS | Linux

http://www.pysycache.org/

blinKen – The Linux version of Simon Says

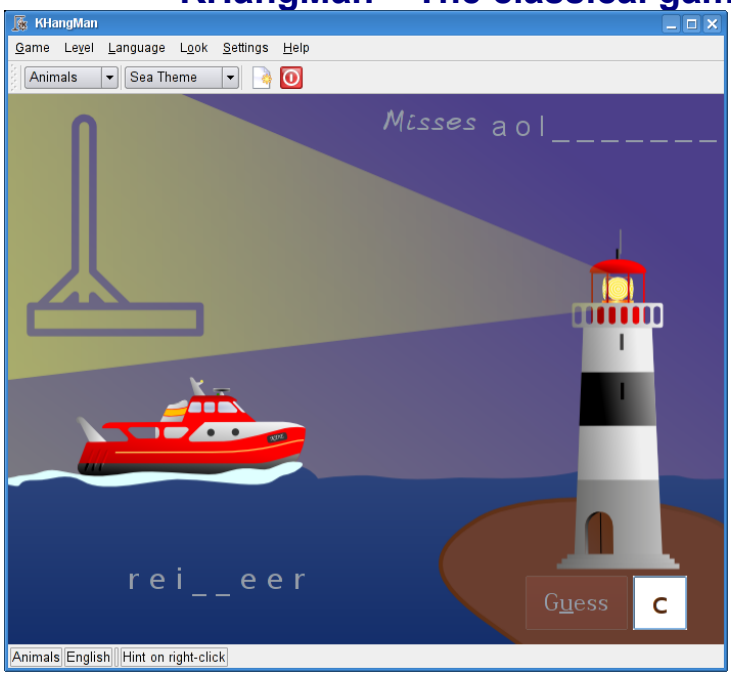


Follow the pattern of sounds and lights as long as you can! Press the start game button to begin. Watch the computer and copy the pattern it makes. Complete the sequence in the right order to win.

Linux

http://edu.kde.org/blinken/index.php

KHangMan – The classical game of Hang Man

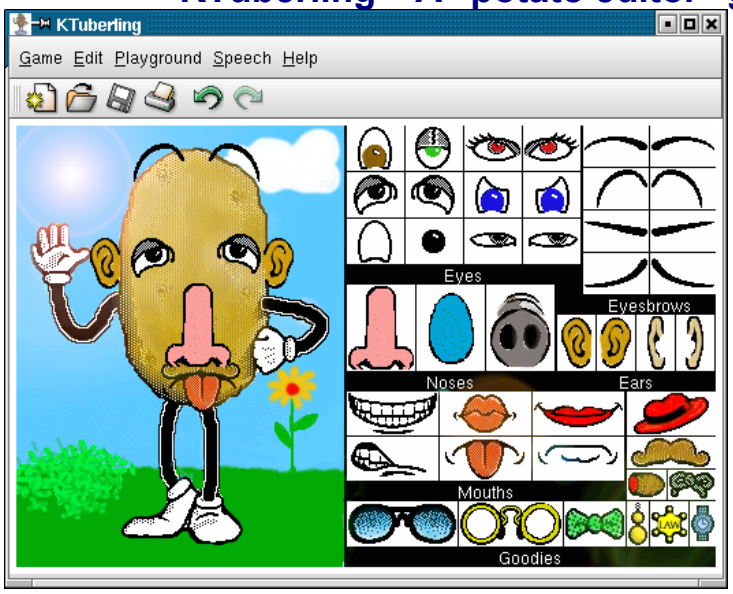


KHangman is the classical hangman game. The child should guess a word letter by letter. At each miss, the picture of a hangman appears. After 10 tries, if the word is not guessed, the game is over and the answer is displayed.

Linux

http://edu.kde.org/khangman/index.php

KTuberling – A "potato editor" game for kids



KTuberling is a "potato editor" game intended for small children and adults who remain young at heart. The game has no winner; the only purpose is to make the funniest faces you can.

Windows Linux

http://opensource.bureau-cornavin.com/ktuberling/

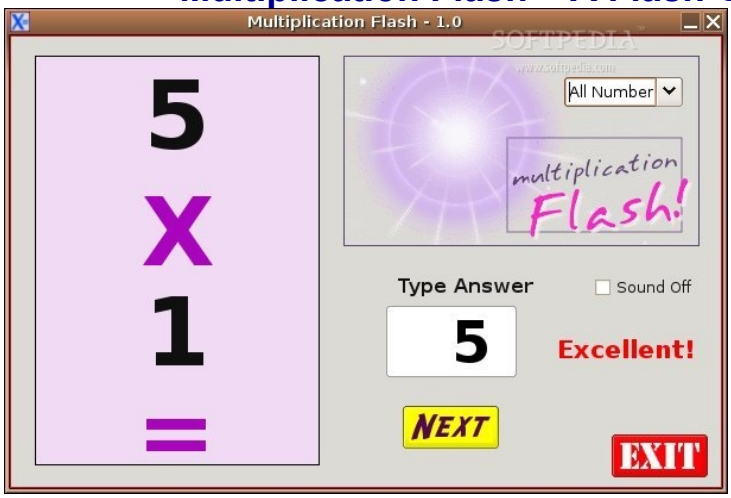
Tux Typing – A fun typing program

The player guides Tux to eat fish, which are falling from the top of the screen. Each fish has a letter or a word written on it. When the player presses the corresponding key, or types the appropriate word, Tux will position himself to eat the fish. The game is intended for children who are learning to type and spell, but it does have higher difficulty levels that even experienced typists may find challenging.

Windows | Mac OS | Linux

http://tuxtype.sourceforge.net/

Multiplication Flash – A Flash Card program



Multiplication Flash is just a way to save the mess, bother, and expense of paper flashcards. And the kids will enjoy the feedback and noises. You can turn of the sound ("good job" or "shucks" sort of sounds -- a few dozen different ones). You can choose to work on a particular number; for instance, pick "Number 7" if you are having trouble with your sevens. Or just leave the dropdown box on "All Numbers" if you would rather have random problems.

Linux

http://linux.softpedia.com/get/Education/Multiplication-Flash-6923.shtml

ChildsPlay – A suite of fun educational games for kids

Childsplay is a 'suite' of educational games for young children. The use of the SDL libraries makes smooth animation and the playing of sound very easy.

Windows | Mac OS | Linux

http://childsplay.sourceforge.net/

GCompris – An Educational Software Suite

GCompris is an educational software which propose different activities to kids from 2 to 10. Some activities are game oriented, but always educational. All in all, gcompris proposes more than 60 activities and it continues to evolves. Includes software for computer discovery: keyboard, mouse, different mouse gesture, algebra: table memory, enumeration, double entry table, mirror image, science: the canal lock, the water cycle, the submarine, geography: place the country on the map games: chess, memory, reading: reading practice: learn to tell time, puzzle of famous paintings, vector drawing.

Linux

http://gcompris.net/-en-

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