

An up-to-date overview of free software and its makers

# Projects on the Move

Free software covers such a diverse range of utilities, applications, and other assorted projects that it can be hard to find the perfect tool. We pick the best of the bunch. This month we cover the AmaroK player, Flightgear, Debian's third revision of Woody, and Skolelinux.

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The subject of software patents has been keeping advocates and opponents equally busy. The pro-patent proposal to the EU parliament by the EU Commission had very little chance of success, but it was approved by the EU Council with only minor changes. One reason for this was that Germany's Minister of Justice, Brigitte Zypries, changed her stance on the subject. She had previously promised to abstain, which would effectively have torpedoed the proposal.

In October, all parliamentary parties in the German parliament came down against software patents, but they were unable to agree on a motion. It is hard to say if a motion would influence the German government's stance on the subject. Although the Ministry of Justice would not be obligated by a motion, it would exert considerable pressure.

## Taking off with Flightgear

Flying machines have been a fond dream of humans ever since the days of

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Leonardo da Vinci and even before. But most people never get to see the inside of a cockpit for lack of money or lack of a pilot's license. Microsoft introduced a flight simulator a long time back, but the MS product will not run on Linux. As we all know, the open source community is self-sufficient: Flightgear brings that cockpit feeling to your desktop, and it is licensed under the GPL.

The Flightgear developers say that dissatisfaction with commercial flight simulators was their major motivation; the fact that the MS source code was closed meant that they had no way of adding extensions and enhancements.

Flightgear quickly became a project with global ambitions. Innumerable programmers from all over the world now work on the flight simulator.

## Giant Download

The basic Flightgear package, with various airplane models and a small map of the San Francisco area (Figure 1), weighs in at more than 90 Mbytes. And you need more digital Flightgear maps for the rest of the world. If the download is too much for your Internet connection, you can order the complete package on the Flightgear homepage [1]. The package gives you three DVDs or eleven CDs with

12 Gbytes of data. This said, individual sectors of the world map can be downloaded separately.

After completing the install, users can simply type *fgfs* to launch Flightgear. Launching the program without any parameters puts you in a Cessna at the previously mentioned San Francisco location. A joystick is perfect for plane control, but you can also use a mouse. In standard mode, the mouse is used to operate the cockpit instrumentation and access program menus. Right clicking with the mouse switches the mouse to joystick mode. Right clicking again changes the perspective. You can view the plane from the outside – from either a side view, a front view, or a bird's eye view – but gamers will typically prefer the view from the pilot's seat.

If you are unhappy with the Cessna, simply select another airplane. A variety of jets, such as the Boeing 747 or the Antonow (Figure 2) are available, as are two fighters (the F16 and the prototype of a Northrop/McDonnell Douglas). For the historically minded, there is even a model of the first plane by the Wright brothers. Some Flightgear fan pages on the Internet have more planes.

In contrast to commercial flight simulators, Flightgear is quite frugal with



the track down the list if it fails to play correctly. This approach allows Amarok to gradually boil the list down to include all of your personal favorites.

The cover manager gives you a graphic for many albums by downloading the cover images from the Amazon server and displaying them to accompany the current track in the context view. In contrast to Noatun, Amarok also plays Internet streams. There is even a playlist with a few Internet radio streams.

Amarok does not have a lot to offer in the line of color. It does not have a skin system; instead the program modifies its appearance to match the QT theme. Amarok also has a default black and blue outfit, although users can change the foreground and background colors to reflect their own taste. When it launches into a new track, Amarok's on-screen display pops up a blue box with the title, artist, and length. You can configure the OSD with respect to color, position, size, and font.

All of this makes Amarok a serious alternative to Xmms for lovers of music. The program's controls may not be as intuitive as some users would wish, but the music database functionality is a vast improvement on simple playlists.

## New Revision of Debian GNU/Linux Woody

Martin Schulze, the Debian GNU/Linux stable release manager, has announced the release of a new revision of the current stable version of Debian GNU/Linux 3.0 (Woody). Debian 3.0r3 follows the project's release policy of only adding security updates and major bug fixes to an existing distribution. Thus, the update will not do anything to worry administrators. Most of the fixes are security updates. In fact, if you regularly install package updates from the website [security.debian.org], you will already have the modifications.

## Linux at School

The requirements for school networks and the clients attached to school networks are similar to the requirements in enterprise, government, and university environments. The clients are typically semi-public so that restrictions with respect to the selection of programs apply. At the same time, centralized

administration is important, both for updating existing clients and for installing new clients.

This said, the level of experience that users have is typically quite different. Some school kids use computers and the Internet on a daily basis. For others, the classroom is their first contact with a computer.

Teachers, who typically assume the administrator role in schools, often do not have the necessary training. The Skolelinux [3] project was founded with the goal of providing a Linux distribution for classroom environments.

A few years ago, the Skolelinux Team took over the orphaned Debian Edu project. Ever since, they have been working hard but out of the limelight. One of the project's focuses has been developing a more comfortable installation routine. The boot floppies used by Debian Woody are generally regarded as unacceptable for future releases. Skolelinux was the first project to develop a new installer to facilitate the initial system setup. And this installer forms the basis for the installation program that Debian Sarge uses.

## School-Like

A Skolelinux network assumes a specific scenario: a server that provides the services used by an arbitrary number of clients. There are installation profiles for both, and that makes it easy to set up identical network desktops.

Skolelinux does not require much in the line of client hardware; an important criterion in schools that are often forced to resort to a jumble of computing dinosaurs. The client doesn't even need a hard disk, if it is network attached. Assuming that the Ethernet card supports PXE, the computer can boot off the network as a thin client. The pupils get everything that end users would typically expect from a PC: KDE on the desktop, the Open Office suite, and

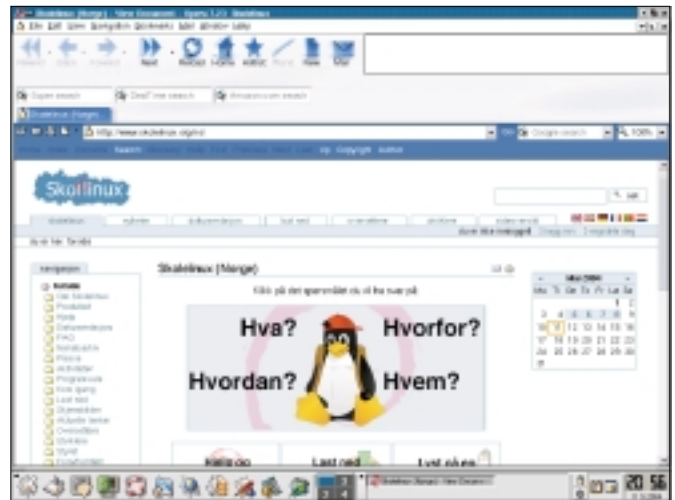


Figure 4: Skolelinux comes from Norway, but it speaks lots of languages.

Opera as Skolelinux' standard Web browser (Figure 4). Webmin helps the administrator manage users and groups and handle other daily chores.

The Skolelinux server provides Cups-based printing for the other machines on the network. It will even allow Windows computers to print via Samba or IPP. Skolelinux configures the Samba packet to support seamless integration of Windows clients and shares. Additionally, an LDAP server handles central account management, with NFS, Apache, and a mail server ready to run if required.

Skolelinux has gained a sizable following at many schools in Norway, the project's home country. Of course, Skolelinux is suitable for schools of any nationality, although the following may not yet be as strong as in Norway. Incidentally, the jury at this year's Linux New Media Award recognized the professionalism shown by the Skolelinux developers in the Best Newcomer Distribution category.

## That's all folks...

...for this month at least, but we do have one request before we go: if you can recommend a program that you would like to see featured in Projects on the Move, why not mail me your suggestion [4]? ■

## INFO

- [1] Flightgear: <http://www.flightgear.org>
- [2] Mpg123: <http://www.mpg123.de>
- [3] Skolelinux: <http://www.skolelinux.org>
- [4] Tips and suggestions: [projects@linux-magazine.com](mailto:projects@linux-magazine.com)