

Comparing screencast applications

DESKTOP RECORDERS

Screenshots provide a static impression of an active program, whereas desktop video sequences show the software hard at work. We'll introduce you to some of the major tools for creating screencasts. **BY OLIVER FROMMEL**

Screenshots are just not good enough. Today's open source projects need to invest in marketing to attract users and fellow programmers, and a screenshot gallery is just a matter of course. Many of today's projects take things a step further and offer screencasts, video clips that show their software at work. Screencasts are also useful as web tutorials.

A number of programs help users create screencasts. Many of the candidates come from the Gnome camp, which is always open to the latest trends. This article investigates some of the more widespread offerings.

Xvidcap

The oldest contender has been around since the days before screencasts. Xvidcap [1] is a simple X tool that launches with a tiny menu and draws a red frame around the recording area (Figure 1). Xvidcap can optionally use the Gtk toolkit, but it will also run on KDE, Gnome, and other window managers.

It can be difficult to build Xvidcap from the source code; the Ffmpeg depen-

dency is particularly tricky, and the program needs Ffmpeg to encode the resulting Mpeg. The `--with-forced-embedded-ffmpeg` option might help if you are using the Ffmpeg that comes with the distribution. Otherwise, you may need to search the Internet for an alternative binary for your distribution. Xvidcap is the only program in the test field that gives you the option of recording a sound track while recording the images. This lets you comment on what you are doing on screen.

During recording, Xvidcap simply stores the individual XWD-formatted images in the current directory. You will probably want to create a directory for this purpose and change to the directory before you launch Xvidcap.

Istanbul

One of the more recent programs, and one that many Gnome projects use, is Istanbul [2]. This rather unusual name is to celebrate Liverpool FC winning the Champions League in Istanbul says developer Zaheer Abbas Merali. It outputs the video clip in Flash format, which is

proprietary but fairly well-suited to web presentations.

If you have Gnome 2.12, the installation should be fairly simple. Istanbul requires Gstreamer version 0.8.10 – Gnome 2.14 includes Gstreamer 0.10, which is not downwardly compatible. Apart from this, Istanbul also needs Python-Gtk 2.6 because it was written in Python. On Ubuntu 5.10 we had no trouble installing Istanbul directly from the repository, although we did need to remove the `pygtk.require('2.0')` line from the *istanbul* script.

On Gnome and KDE a red record button appears in the panel when you launch Istanbul. Unfortunately, we couldn't use the Istanbul menu on KDE due to a display error. As a workaround, you could try docking the KDE panel at the top of the screen. The menu lets users set the image size and frame rate. One special feature available here is the ability to opt to stream the video you are recording directly to an Icecast server. If Istanbul is too slow, on an older machine for example, you can use the menu to tell Istanbul to record individual images

