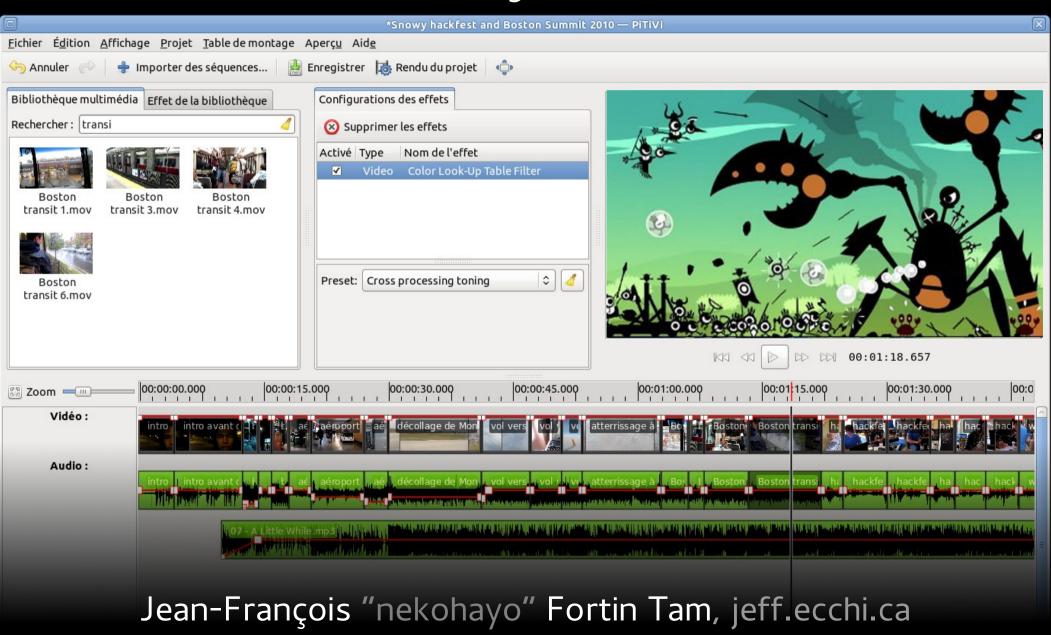
PiTiVi

The state of video editing with GStreamer on Linux



2009 is so last-last-year.



http://river-valley.tv/
pitivi-an-overview-of-a-foss-video-editors-history-and-design/
(if you like pain or use a dvorak keyboard layout)

http://jeff.ecchi.ca

(if you are human)

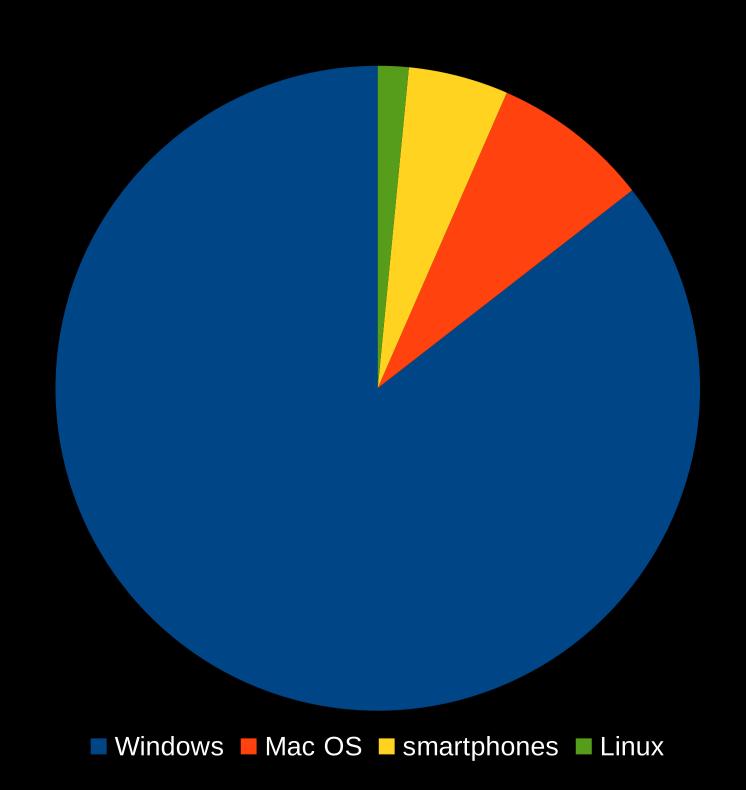
Menu du jour

- 1. The state of libre video editing
- 2. Challenges
- 3. Why PiTiVi?
- 4. What's new in PiTiVi since 2009
- 5. Back to the Future
- 6.???
- 7. PROFIT!!!

In A.D. 2011 War was Beginning.

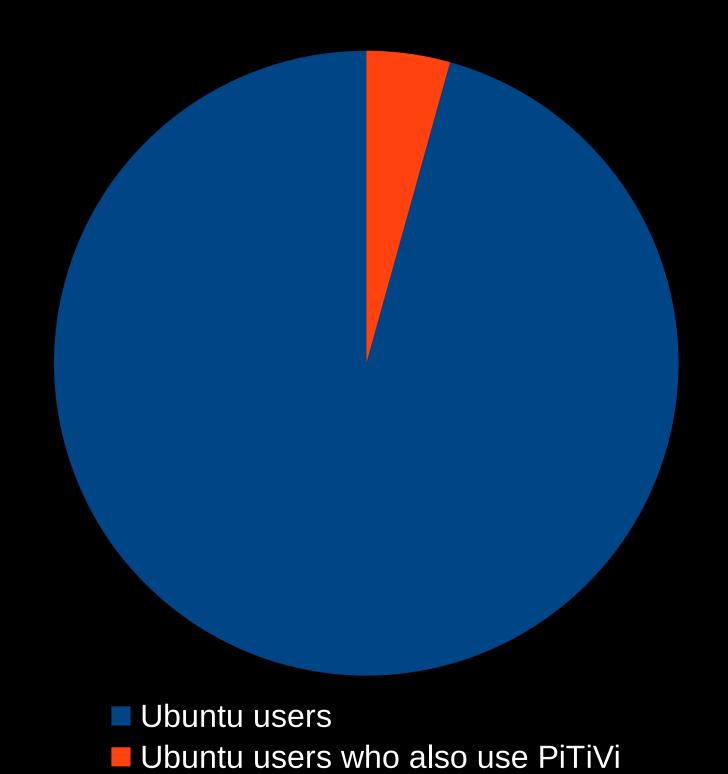






Users of Personal Computers

Linux users Filmmakers

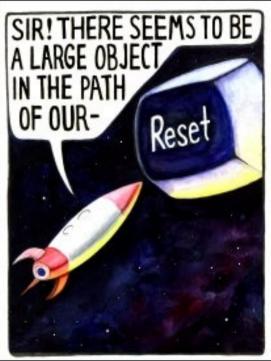






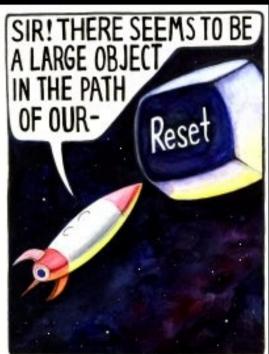


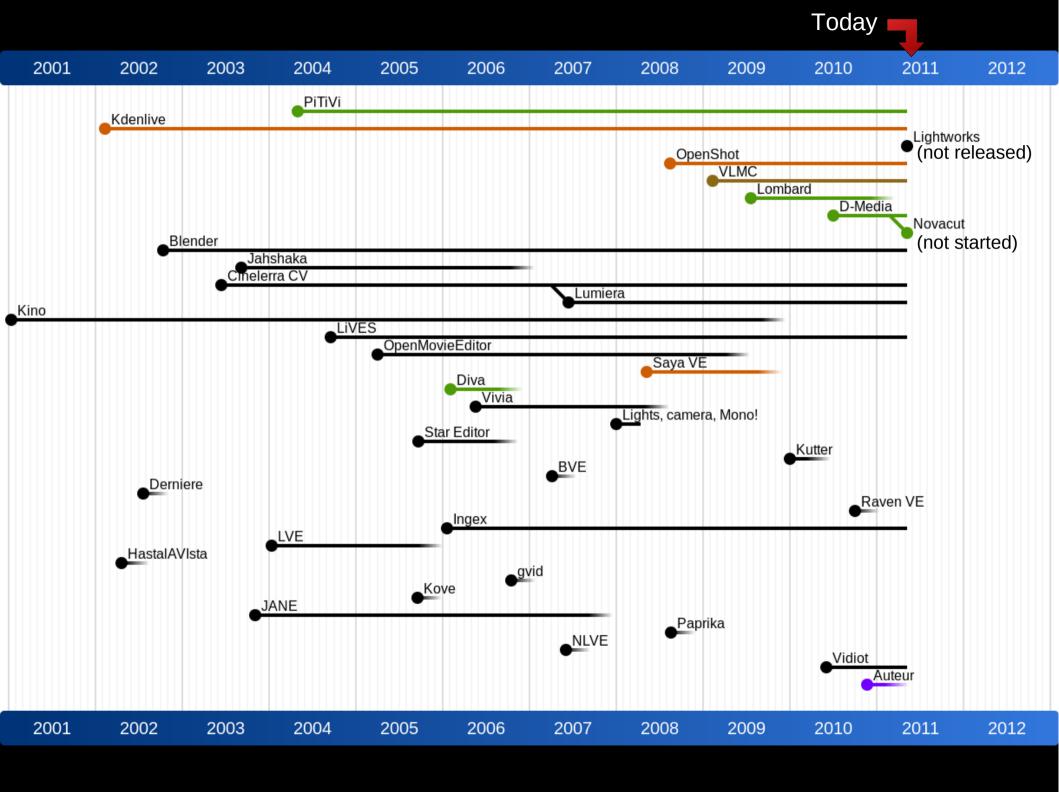
Pages		
Url de la page	Vues	Vues ▼ uniques
index /index	13962	11186
/?go=download	5954	4306
/?go=screenshots	4955	4172
	3828	2718
₽ /?	1498	1101
/?go=features	1101	956
/?go=showcase	688	604
/?go=bugs	412	319
✓ /?go=contributing	389	302











Key factors of failure

- Targetting Windows and Mac users
- Starting a new project just because you dislike a UI toolkit or programming language
- Writing your own multimedia engine
- Thinking development will be easy
- Thinking attracting contributors is easy
- Using Adobe Premiere as a source of inspiration

Key factors of success



Shotwell is a handy photo manager that is ready for your gadgets. Connect a camera or a phone to transfer your photos, then it's easy to share them and keep them safe. If you're feeling creative, you can try lots of photo apps from the Ubuntu Software Centre.

Included software



Shotwell Photo Manager

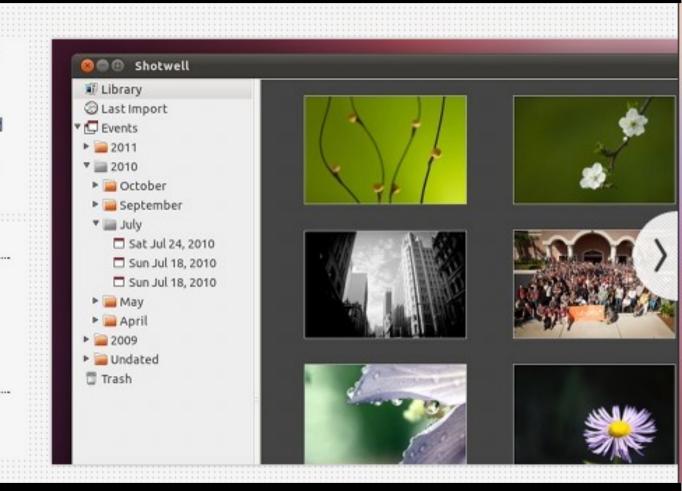


PiTiVi Video Editor

Supported software



GIMP Image Editor





Why PiTiVi?

- Standard technologies (GStreamer torture test)
- Upstream first policy, no dirty hacks
- Best of breed UI design
- Here to stay
- Various strategic advantages. More at http://www.pitivi.org/?go=contributing

gstreamer





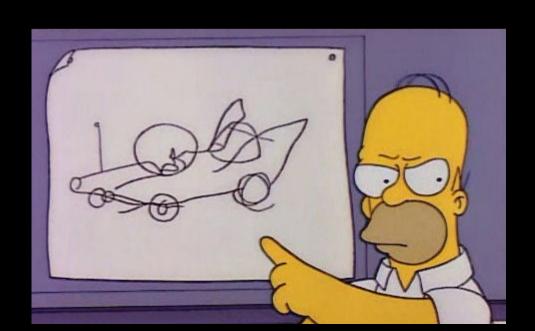


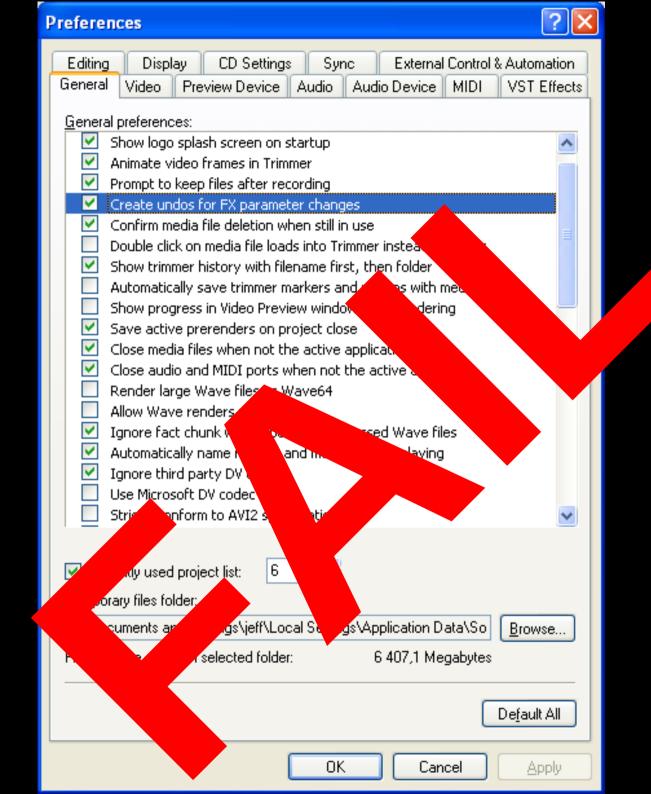
221+ plugins

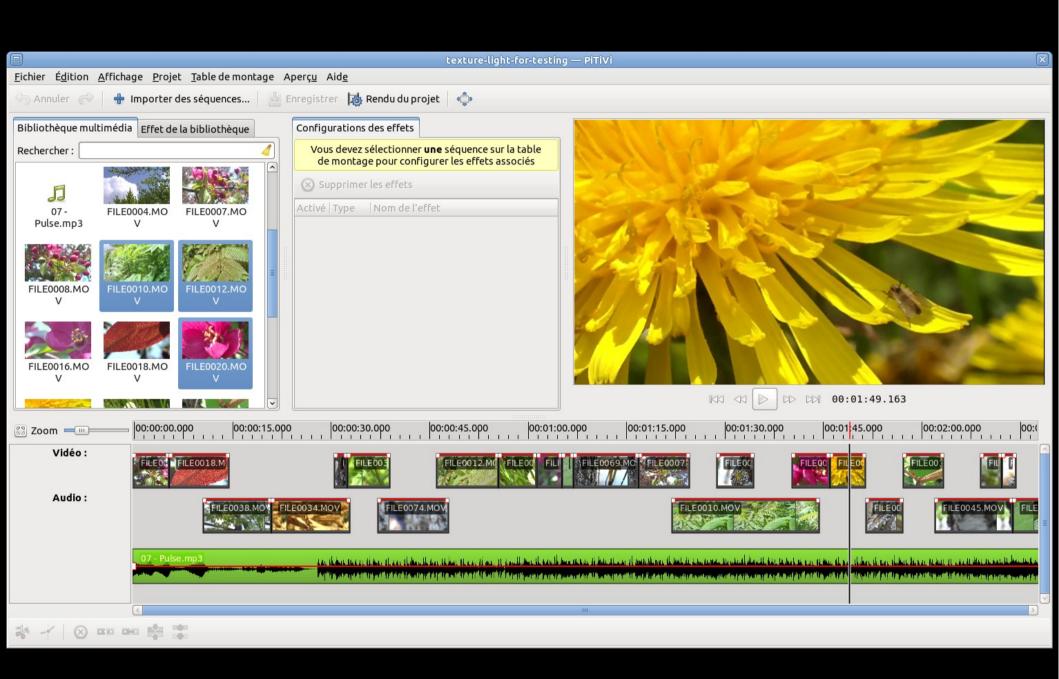
1102+ features

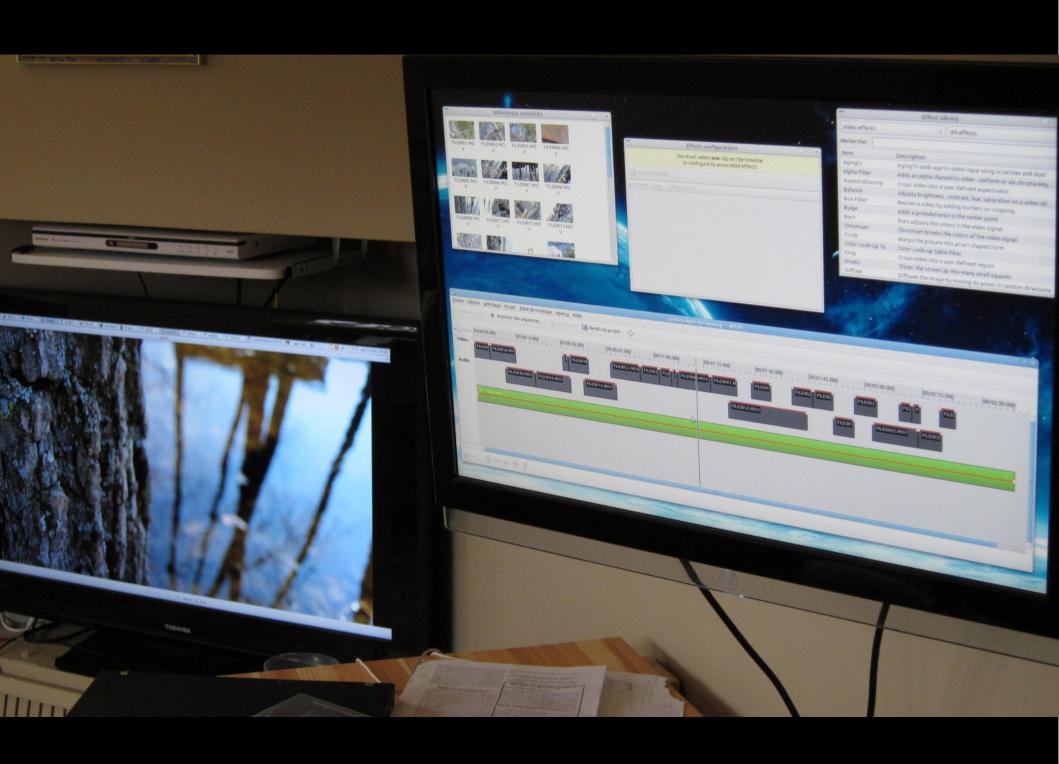


Design









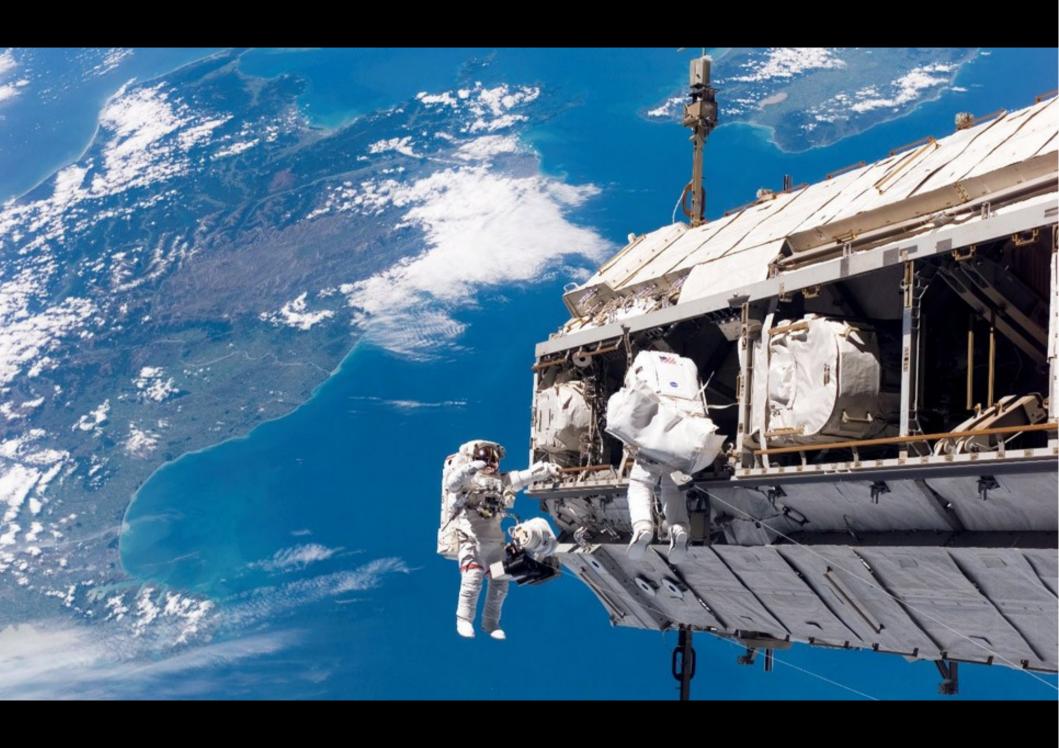
"[...] don't expect people to jump in and help you. That's not how these things work.

You need to get something half-way useful first, and then others will say 'hey, that *almost* works for me', and they'll get involved in the project."

Linus Torvalds, 2004











Microsoft



RATIONAL STREET, STREE

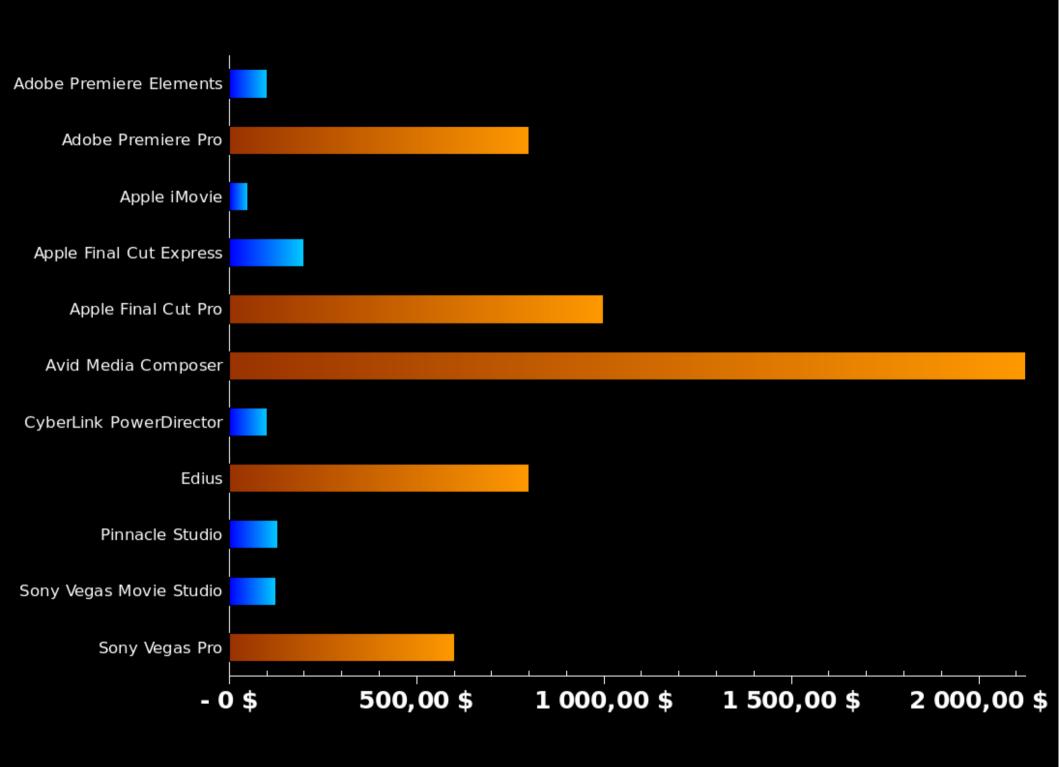


Word.



Write letterz n shit, yo.

Version 2002



"This is **not a one-man job**, neither a buddy-created application. It requires **at least 10 engineers who know what the hell they are doing**, and they are sitting next to each other. [...]

It will take 2 years to get there, $$100,000 \times 10 \times 2 = 2$ million USD. That's the minimum you need to develop such an app [...]"

- Eugenia Loli Queru, 2008

Pick any two:

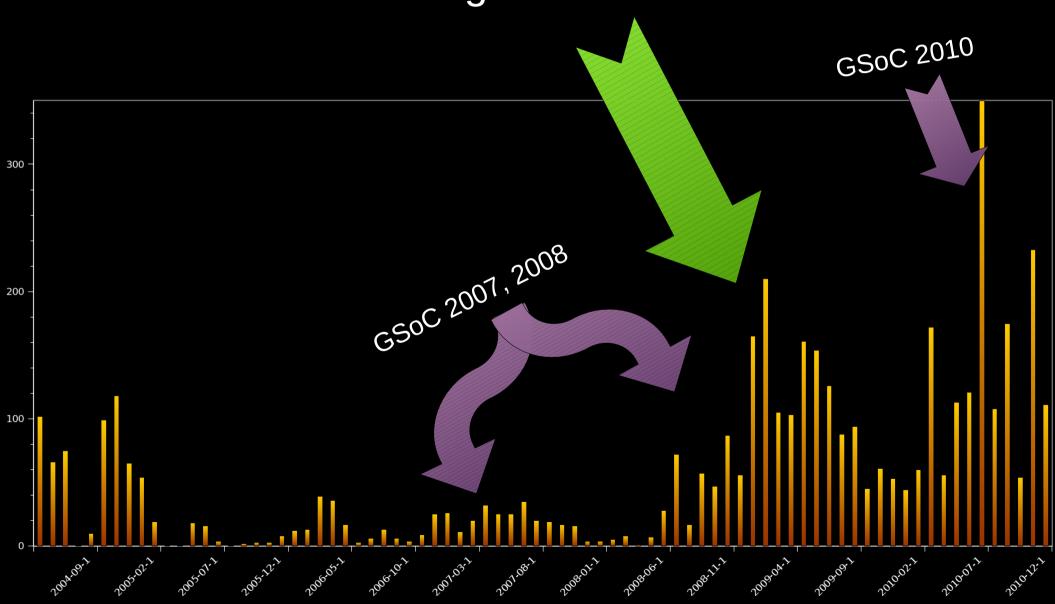
- Cheap to develop
- Fast development
- Good (stable and featureful)

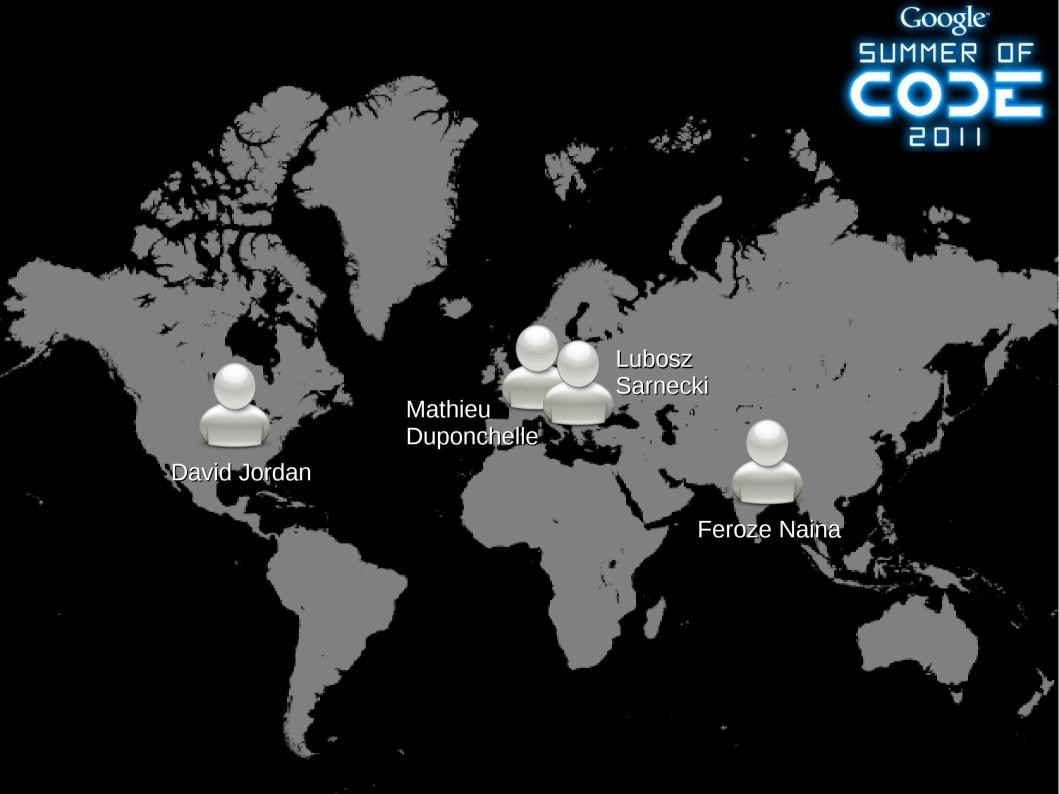


...PROFIT!!!

- Fluendo (until 2007)
- Google Summer of Code
 2007, 2008, 2010, 2011
- Collabora (since December 2009)

Collabora employees working on PiTiVi





This summer's blockbusters

- Implementing GES in PiTiVi
- Animated effects, clip transformation and titles
- Render profiles, video uploading
- Automated compositing using optical flow
- Various GUI enhancements

Example Uses for Filmmakers:



Figure 1: Manual Cutout Example.

...to one like this:



GStreamer editing services

[GES] is a library to simplify the creation of multimedia editing applications.

Based on the GStreamer multimedia framework and the GNonLin set of plugins, its goals are to suit all types of editing-related applications. [...]

Bunch of plugins

GStreamer

GNonLin

PiTiVi

Why?!

"Because writing audio/video-editors is a lot of work,

and we should make it as easy as possible for people to write such applications while being able to leverage the power of GStreamer and not requiring a PhD in nuclear engineering."

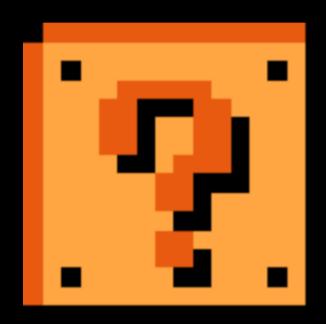
Edward Hervey, 2009



http://blogs.gnome.org/edwardrv/2009/11/30/the-result-of-the-past-few-months-of-hacking/

Executive summary

- Video editing on Linux still sucks, but is slowly getting better
- Interesting times ahead
- Stay tuned for this year's GSoC projects
- If you need help to get involved, come see me



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Yes, this presentation was made entirely with LibreOffice Impress.

(and I liked it)