PiTiVi

An overview

Jean-François Fortin Tam

PiTiVi v0.13.0.1

Fichier Édition Affichage Project Timeline Preview Aide

Bibliothèque de séquences

Audio: 2 channels at 48000 *Hz* (16 *bits*)

pano de minibus à la gauchetière.MOV 00m28s
Vidéo : 1280 x 720 *pixels* à 29.97 *fps*
Audio: 2 channels at 48000 *Hz* (16 *bits*)

polytechnique trépied pano lent.MOV 01m26s
Vidéo : 1280 x 720 *pixels* à 29.97 *fps*
Audio: 2 channels at 48000 *Hz* (16 *bits*)

polytechnique trépied pano rapide.MOV 00m38s
Vidéo : 1280 x 720 *pixels* à 29.97 *fps*
Audio: 2 channels at 48000 *Hz* (16 *bits*)

polytechnique trépied pano vertical.MOV 00m23s
Vidéo : 1280 x 720 *pixels* à 29.97 *fps*
Audio: 2 channels at 48000 *Hz* (16 *bits*)

test HD 6.MOV 00m15s
Vidéo : 1280 x 720 *pixels* à 29.97 *fps*
Audio: 2 channels at 48000 *Hz* (16 *bits*)

test HD 7.MOV 00m08s
Vidéo : 1280 x 720 *pixels* à 29.97 *fps*
Audio: 2 channels at 48000 *Hz* (16 *bits*)

test HD 8.MOV 00m08s
Vidéo : 1280 x 720 *pixels* à 29.97 *fps*
Audio: 2 channels at 48000 *Hz* (16 *bits*)

00:01:56.000 / 00:05:25.948

00:01:00.000 00:02:00.000 00:03:00.000

Video: FILE0038.MC FILE0074.MOV FILE0008.M FILE0011.MOV FILE0002.MOV FILE0037.MO FILE0046 FILE0013.M FILE0039

Audio: 07 - Pulse.mp3

Specto
Unobtrusive Notification

NANOKRON
studios

Disclaimer: IANAD.

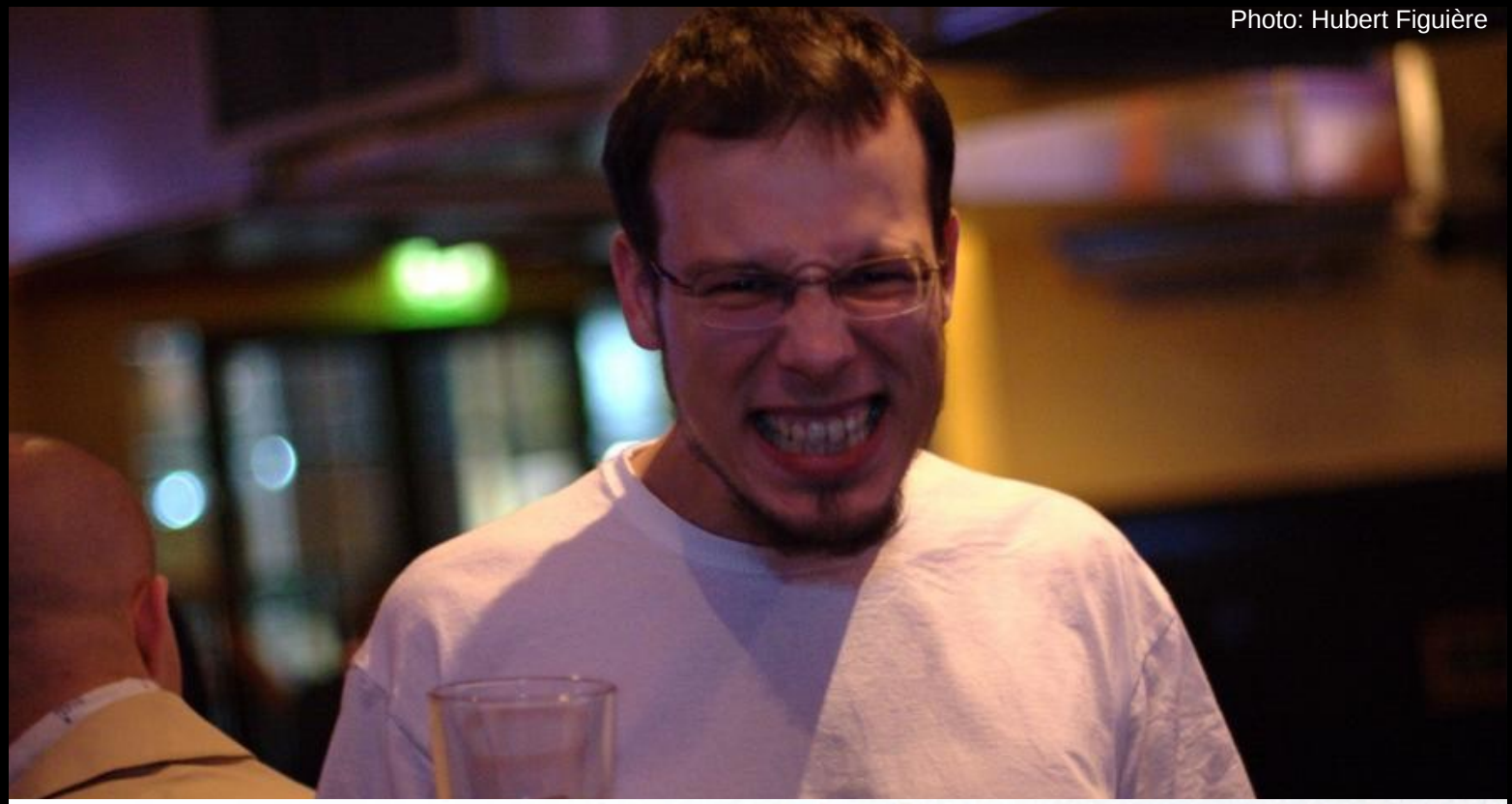


Photo: Hubert Figuière

Bugzilla

Logged In nekohayo@gmail.com | Log Out

Level 17
bug necromancer

Basic stats

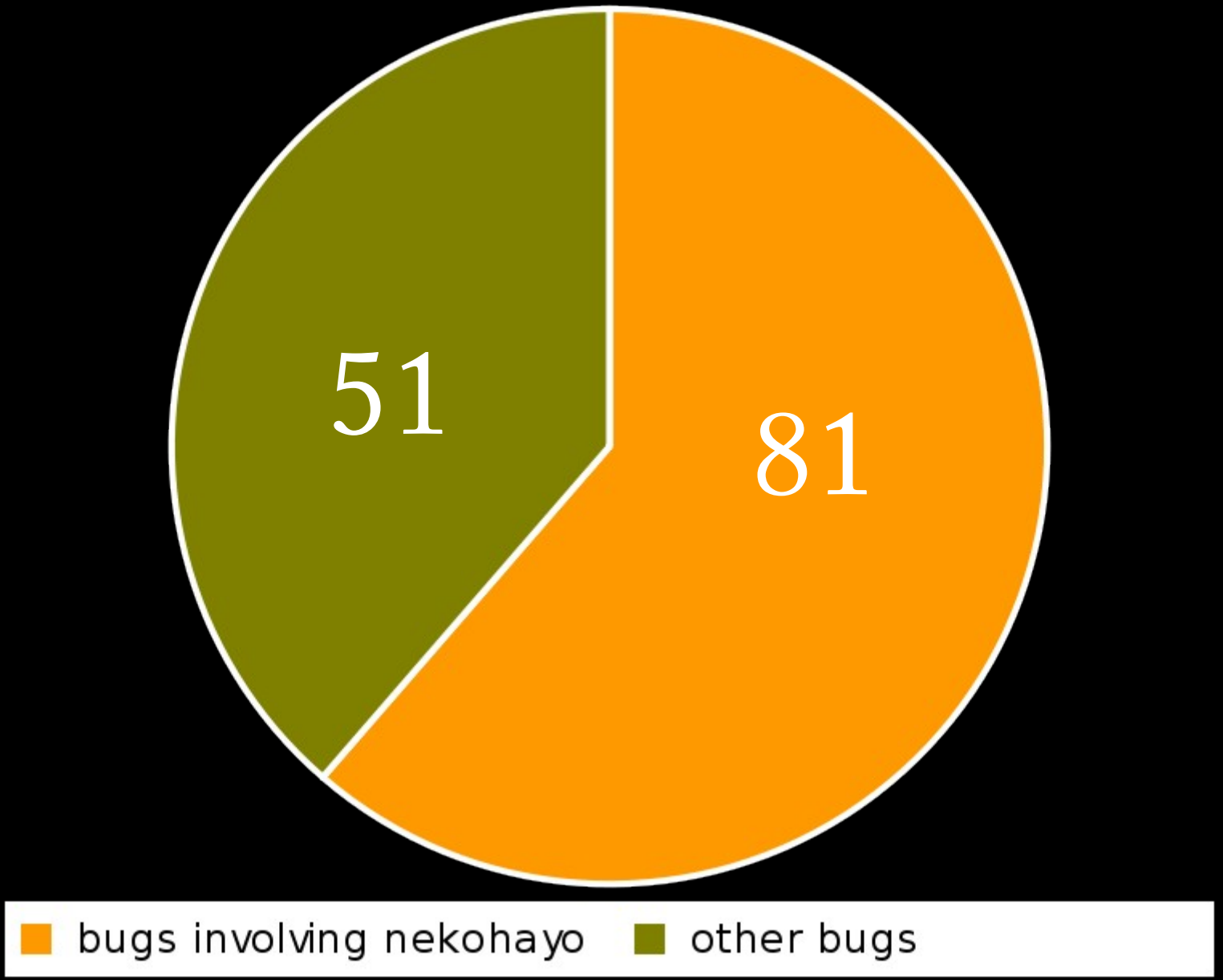
you

- added 1263 comments to bugs.
- closed 34 bugs.
- reported 308 bugs.
- gathered 17 points

Reports

- All closed bugs
- All bugs cc'ed

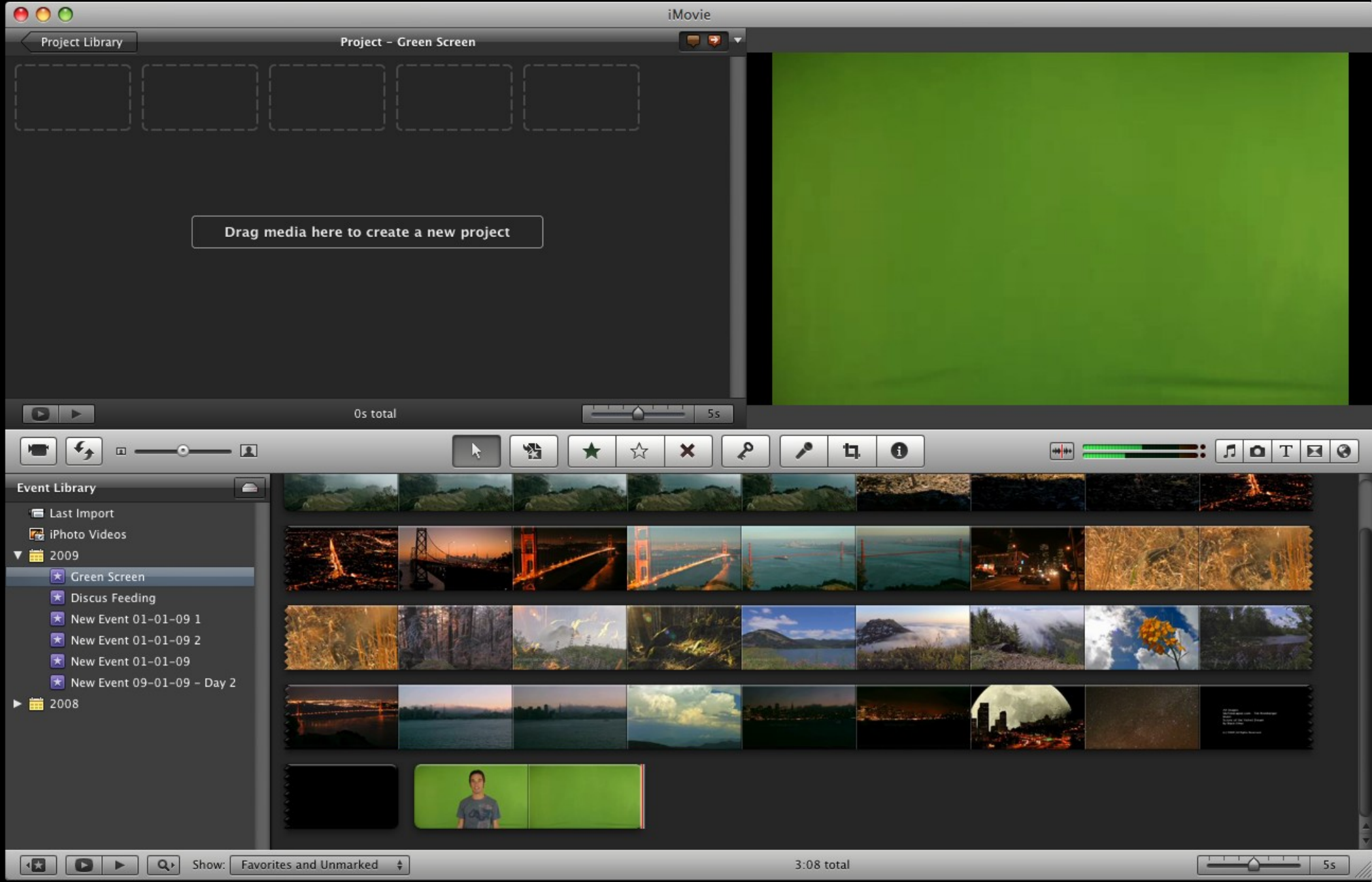
Your bugs are under attack.

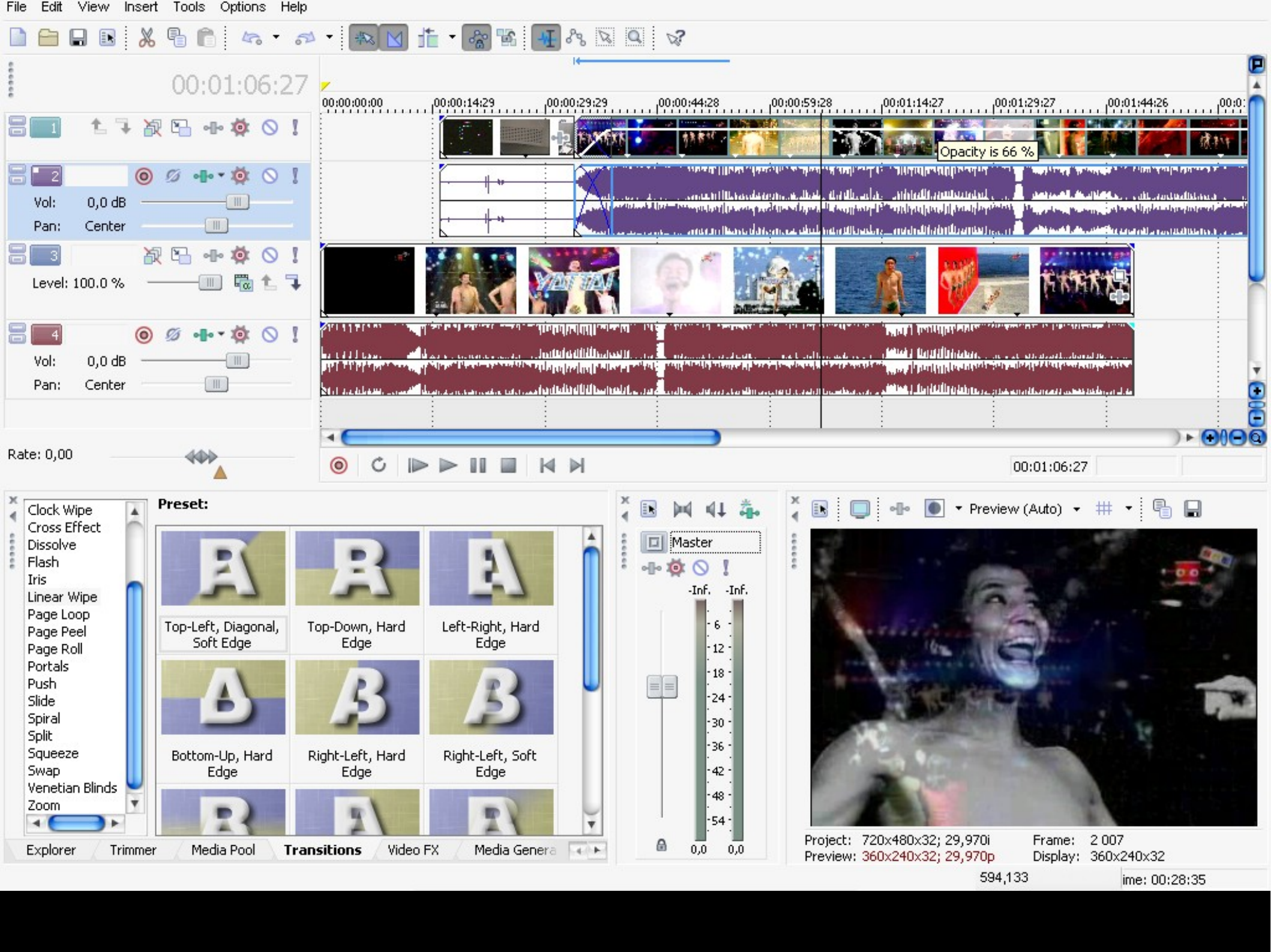


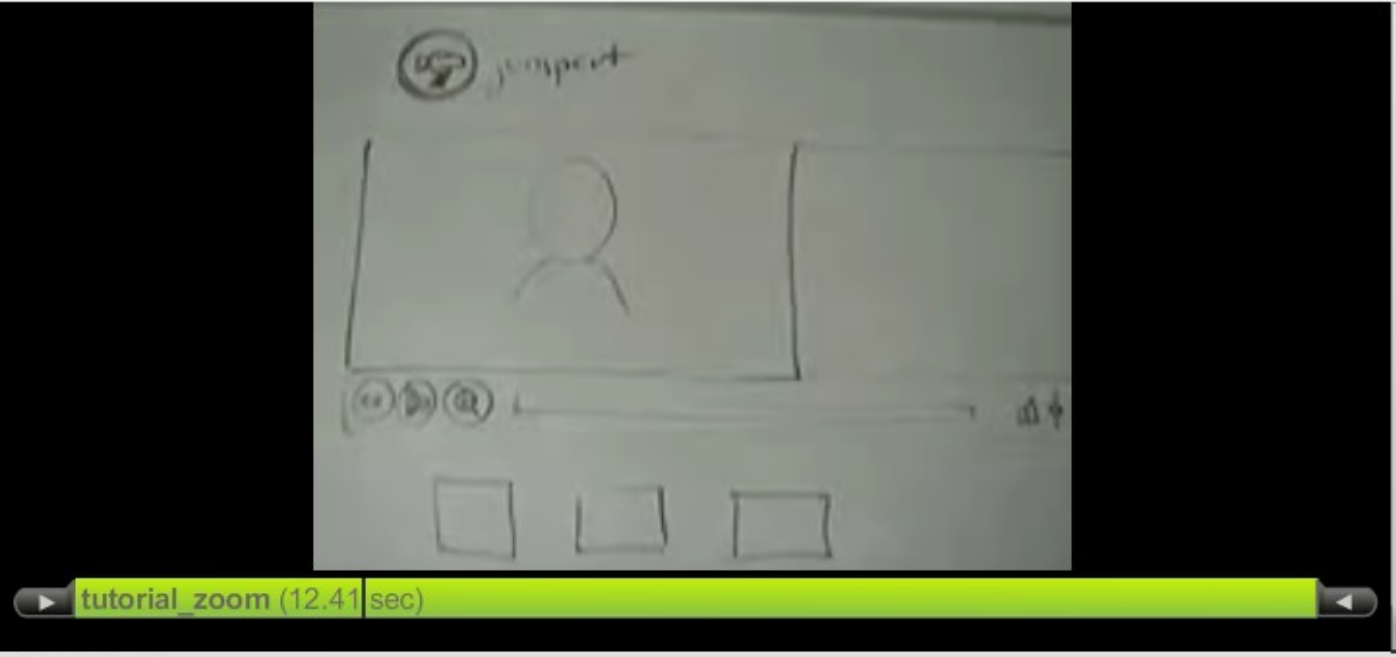
Why do I love it?

- Python, GStreamer and GTK+
- One size fits all
- Here to stay
- Doesn't look like monkey arse
- Torture test

Design Matters.


iMovie
Project Library
Project - Green Screen
Drag media here to create a new project
0s total
5s
Event Library
Last Import
iPhoto Videos
2009
Green Screen
Discus Feeding
New Event 01-01-09 1
New Event 01-01-09 2
New Event 01-01-09
New Event 09-01-09 - Day 2
2008
Show:
Favorites and Unmarked
3:08 total
5s


File Edit View Insert Tools Options Help
00:01:06:27
00:00:00:00
00:00:14:29
00:00:29:29
00:00:44:28
00:00:59:28
00:01:14:27
00:01:29:27
00:01:44:26
Opacity is 66 %
Vol: 0,0 dB
Pan: Center
Level: 100.0 %
Vol: 0,0 dB
Pan: Center
Rate: 0,00
00:01:06:27
Preset:
Clock Wipe
Cross Effect
Dissolve
Flash
Iris
Linear Wipe
Page Loop
Page Peel
Page Roll
Portals
Push
Slide
Spiral
Split
Squeeze
Swap
Venetian Blinds
Zoom
Top-Left, Diagonal, Soft Edge
Top-Down, Hard Edge
Left-Right, Hard Edge
Bottom-Up, Hard Edge
Right-Left, Hard Edge
Right-Left, Soft Edge
Explorer
Trimmer
Media Pool
Transitions
Video FX
Media Genera
Master
-Inf.
-Inf.
6
12
18
24
30
36
42
48
54
0,0
0,0
Preview (Auto)
Project: 720x480x32; 29,970i
Preview: 360x240x32; 29,970p
Frame: 2 007
Display: 360x240x32
594,133
ime: 00:28:35



tutorial_zoom (12.41 sec)

Transition

(None)

Duration

In point: 0

Out point: 12.41

Volume

Background (Music)

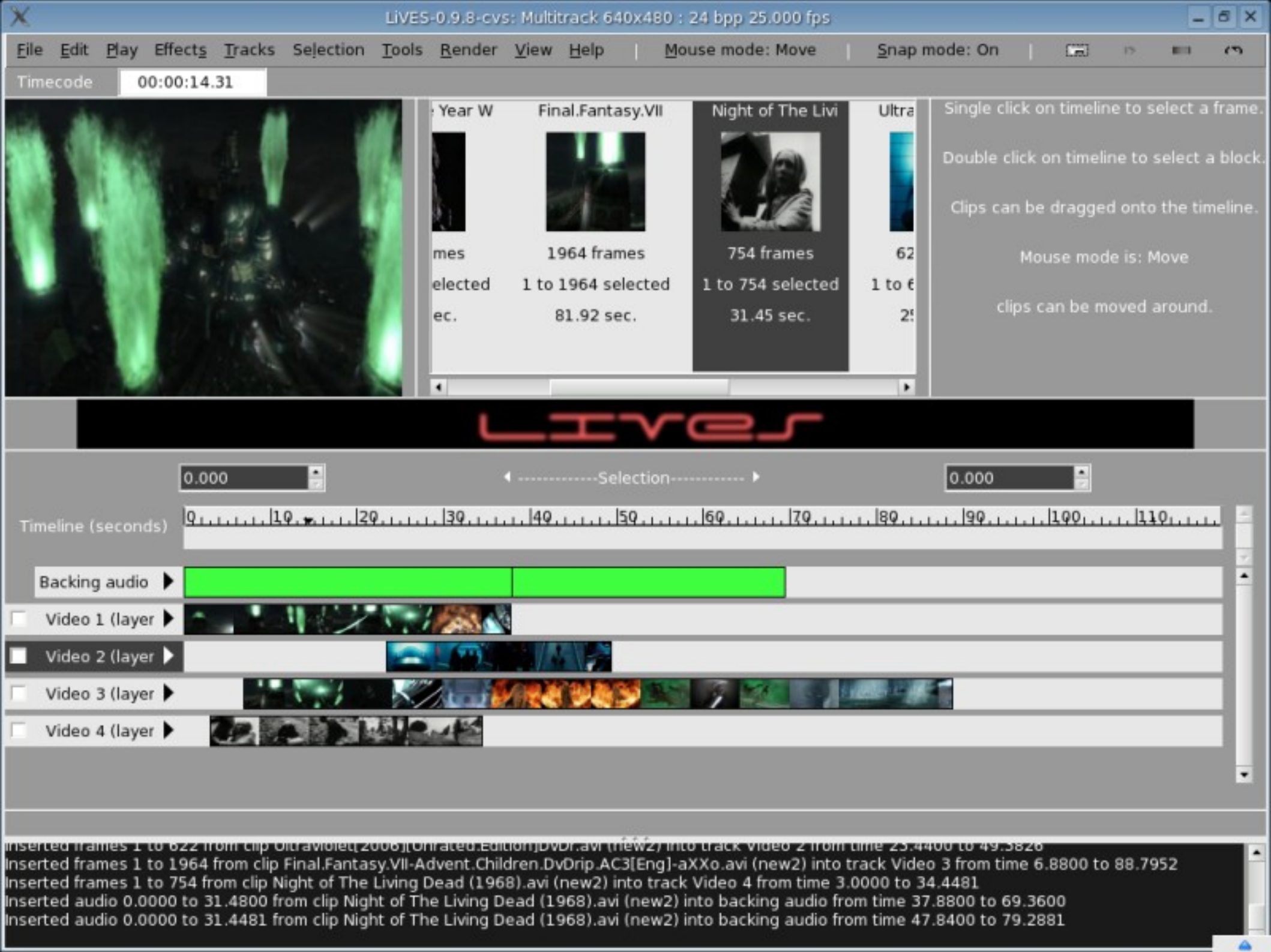
Clip Audio

Clip | Audio | Titles | Effects | Actions | Add

jumpcut™

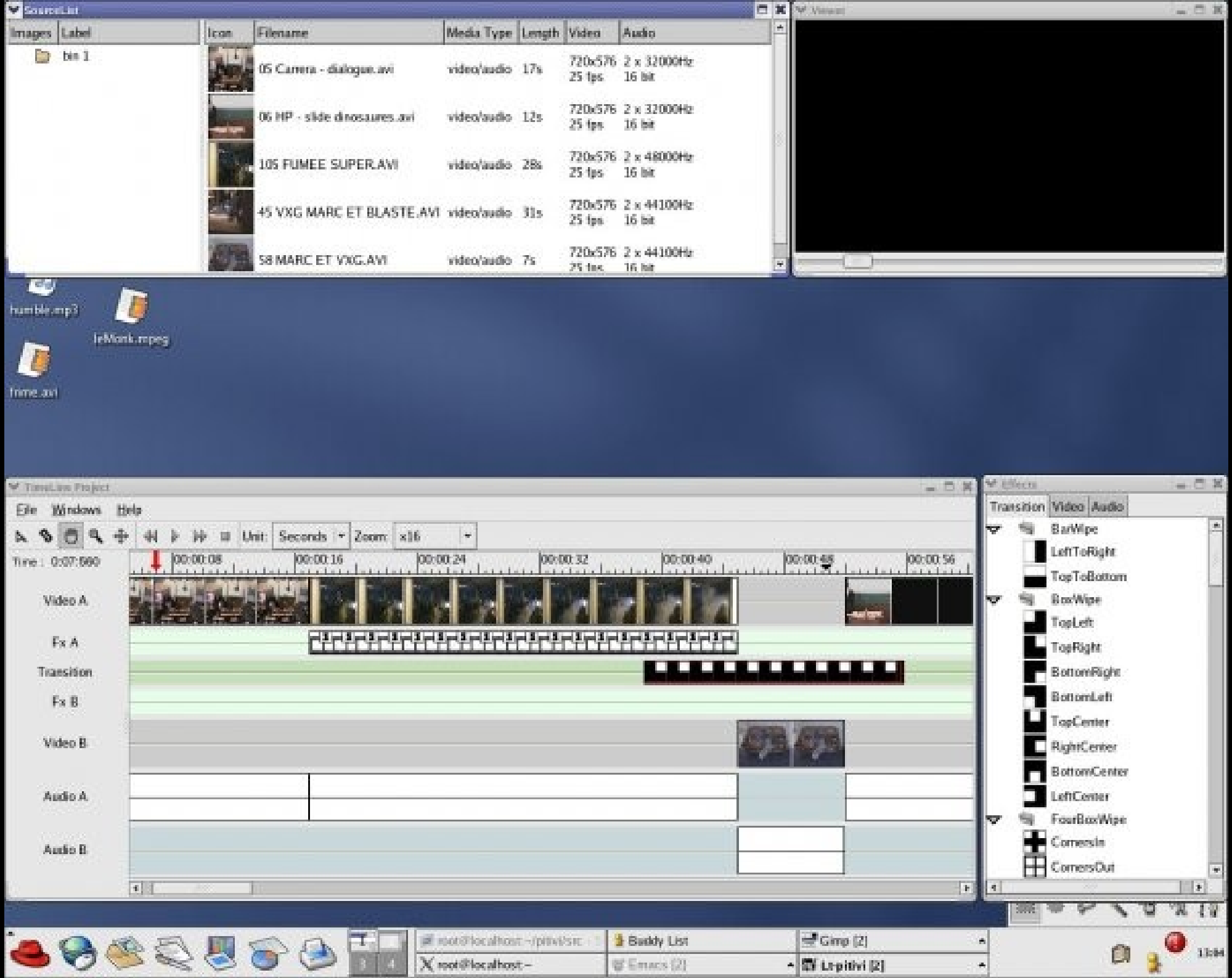
JahShaka
dtbmshirow14_12801
AnimationClip2
AnimationClip3
EffectsClip4
AnimationClip5
flame_6
flamekey_7
greeneye_8
starfight_9
audiotube
Mode
00:01 00
FPS
Step
Desktop
JahShaka 2.0RC1
Jahshaka Video Player : AnimationClip
Animation
Effects
Editing
Paint
Text CG
PLAYER
ASSET
DISK Player
STATUS
Player Ready
STARTFRAME
00:00 01
ENDFRAME
00:03 09
RAM Player
Load into RAM
STARTFRAME
00:00 01
ENDFRAME
00:03 09
FPS

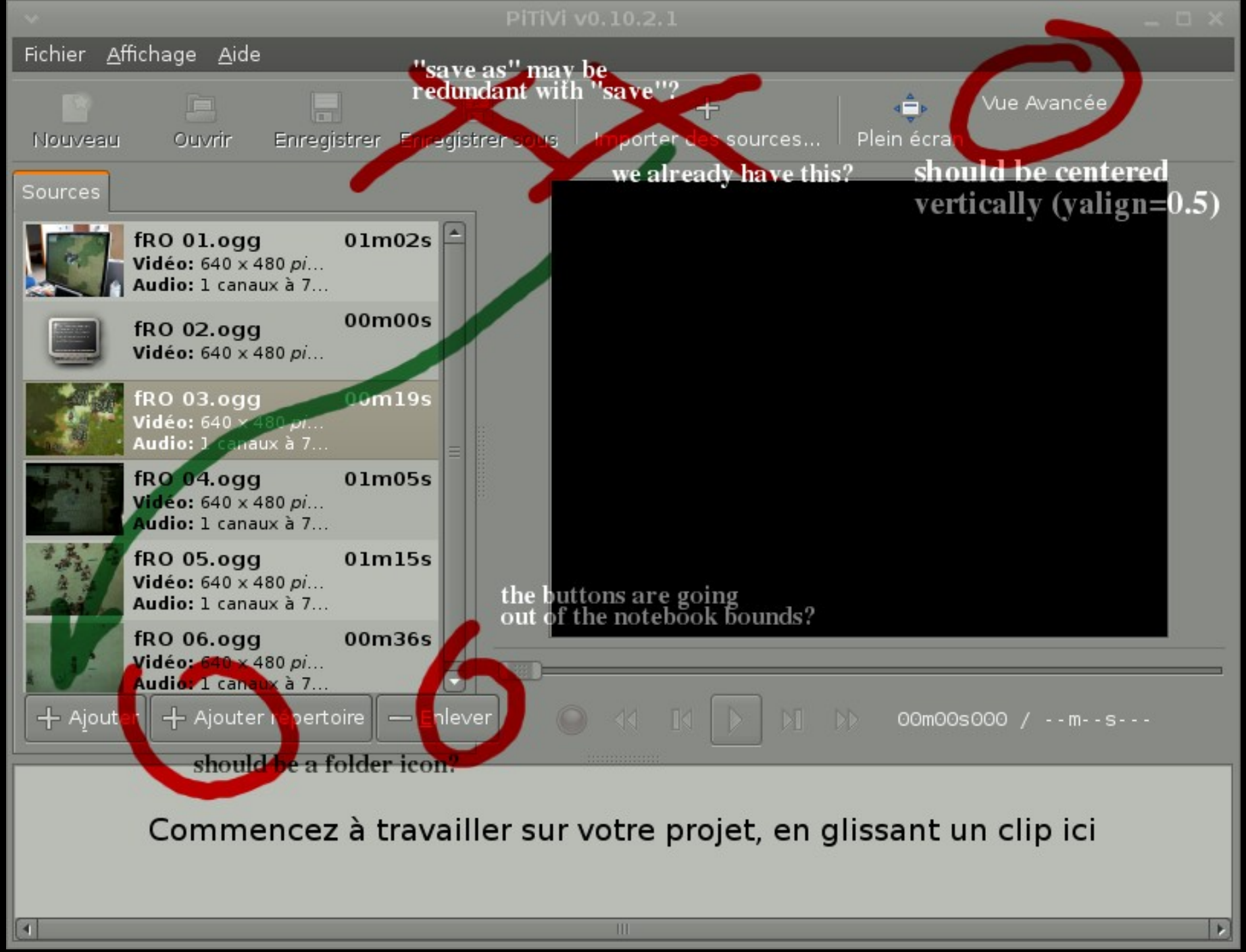
Cinelerra: t1.04.mpg
Cinelerra: Compositor
100%
Cinelerra
File Edit Keyframes Audio Video Tracks Settings View Window
0:00:00.000 0:00:02.000 0:00:04.000 0:00:06.000 0:00:08.000 0:00:10.000 0:00:12.000 0:00:14.000 0:00:16.000 0:00:18
Video 1
t1.18.mpg #1
Video 2
t1.04.mpg #1
Audio 1
t1.04.mpg #1
Audio 2
t1.04.mpg #2
0:00:18.794 64 32 Audio Fade: -80.0 to 6.0 0:00:12.608 0:00:00.021 0:00:12.629
0:00:04.971, 0.00
0%
Cinelerra: Resources
Audio Effects
Video Effects
Audio Transiti
Video Transiti
Labels
Clips
Media
Rotate
Swap channels
Unsharp
SVG via Inkscape
Threshold
VideoScope
Scale
Time Average
Wave
Selective Temporal Averaging
TimeFront
Whirl
Sharpen
Title
YUV
ShiftInterlace
Translate
Zoom Blur


LiVES-0.9.8-cvs: Multitrack 640x480 : 24 bpp 25.000 fps
File Edit Play Effects Tracks Selection Tools Render View Help
Mouse mode: Move
Snap mode: On
Timecode
00:00:14.31
Year W
Final.Fantasy.VII
Night of The Livi
Ultra
1964 frames
1 to 1964 selected
81.92 sec.
754 frames
1 to 754 selected
31.45 sec.
Single click on timeline to select a frame.
Double click on timeline to select a block.
Clips can be dragged onto the timeline.
Mouse mode is: Move
clips can be moved around.
LIVES
0.000
Selection
0.000
Timeline (seconds)
Backing audio
Video 1 (layer
Video 2 (layer
Video 3 (layer
Video 4 (layer
Inserted frames 1 to 1964 from clip Final.Fantasy.VII-Advent.Children.DvDrip.AC3[Eng]-aXXo.avi (new2) into track Video 3 from time 6.8800 to 88.7952
Inserted frames 1 to 754 from clip Night of The Living Dead (1968).avi (new2) into track Video 4 from time 3.0000 to 34.4481
Inserted audio 0.0000 to 31.4800 from clip Night of The Living Dead (1968).avi (new2) into backing audio from time 37.8800 to 69.3600
Inserted audio 0.0000 to 31.4481 from clip Night of The Living Dead (1968).avi (new2) into backing audio from time 47.8400 to 79.2881

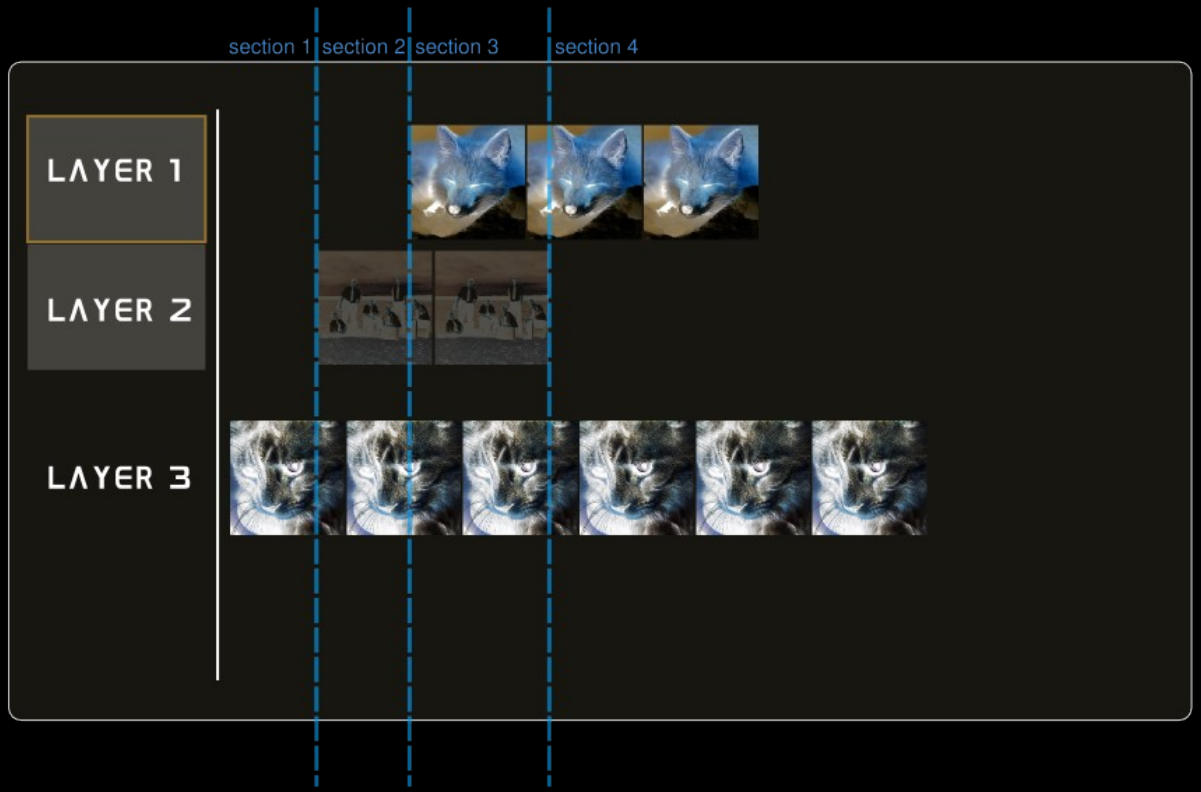
Open Movie Editor
Project Edit Tracks Format View Help
Screenshot Example Project
Screenshot Example Project
Files Media Browser Clip Inspector Filters & Effects Titles
Font Helvetica b
Font Size 64
Color
Home Improvement
Home Improvement
Tools
00:00:06
00:31
00:00:56
00:01:21
00:01:46
00:02:11
00:02:36
00:03:01
Video
Video
Audio
Audio

(Obligatory car analogy)


SourceList
Images
Label
bin 1
Icon
Filename
Media Type
Length
Video
Audio
05 Camera - dialogue.avi
video/audio
17s
720x576 2 x 32000Hz 25 fps 16 bit
06 HP - slide dinosaures.avi
video/audio
12s
720x576 2 x 32000Hz 25 fps 16 bit
105 FUMEE SUPER.AVI
video/audio
28s
720x576 2 x 48000Hz 25 fps 16 bit
45 VXG MARC ET BLASTE.AVI
video/audio
31s
720x576 2 x 44100Hz 25 fps 16 bit
58 MARC ET VXG.AVI
video/audio
7s
720x576 2 x 44100Hz
Viewer
humble.mp3
leMonk.mpeg
frame.avi
TimeLine Project
File
Windows
Help
Unit:
Seconds
Zoom:
x16
Time : 0:07:560
00:00:08
00:00:16
00:00:24
00:00:32
00:00:40
00:00:48
00:00:56
Video A
Fx A
Transition
Fx B
Video B
Audio A
Audio B
Effects
Transition
Video
Audio
BarWipe
LeftToRight
TopToBottom
BoxWipe
TopLeft
TopRight
BottomRight
BottomLeft
TopCenter
RightCenter
BottomCenter
LeftCenter
FourBoxWipe
CornersIn
CornersOut
Buddy List
Gimp [2]
Emacs [2]
Lqpitivi [2]
11:04


PiTiVi v0.10.2.1
Fichier Affichage Aide
"save as" may be redundant with "save"?
Nouveau
Ouvrir
Enregistrer
Enregistrer sous
Importer des sources...
Plein écran
Vue Avancée
we already have this?
should be centered vertically (yalign=0.5)
Sources
fRO 01.ogg 01m02s
Vidéo: 640 x 480 pi...
Audio: 1 canaux à 7...
fRO 02.ogg 00m00s
Vidéo: 640 x 480 pi...
fRO 03.ogg 00m19s
Vidéo: 640 x 480 pi...
Audio: 1 canaux à 7...
fRO 04.ogg 01m05s
Vidéo: 640 x 480 pi...
Audio: 1 canaux à 7...
fRO 05.ogg 01m15s
Vidéo: 640 x 480 pi...
Audio: 1 canaux à 7...
fRO 06.ogg 00m36s
Vidéo: 640 x 480 pi...
Audio: 1 canaux à 7...
the buttons are going out of the notebook bounds?
Ajouter
Ajouter répertoire
Enlever
00m00s000 / --m--s---
should be a folder icon?
Commencez à travailler sur votre projet, en glissant un clip ici

PiTiVi
Blending mockup



Results in the preview window

section 1

section 2

section 3

section 4

PiTiVi v0.10.3.1

Fichier Affichage Aide

Nouveau Ouvrir Enregistrer Enregistrer sous | Importer des séquences... | Rendu du projet | Plein écran | Affichage avancé

Séquences

Fate/Hollow ataraxia OP1.avi 02m02s
Vidéo : 800 x 600 *pixels* à 29.97 *fps (DivX MPEG-4 Version 5)*
Audio : 2 canaux à 48000 *Hz* (16 *bits*) *(MPEG-1 layer 3)*

Fate/Hollow ataraxia OP2.avi 01m34s
Vidéo : 800 x 600 *pixels* à 29.97 *fps (DivX MPEG-4 Version 5)*
Audio : 2 canaux à 48000 *Hz* (16 *bits*) *(MPEG-1 layer 3)*

Hare Hare Yukai.avi 01m13s
Vidéo : 704 x 396 *pixels* à 29.97 *fps (XVID MPEG-4)*
Audio : 2 canaux à 48000 *Hz* (16 *bits*) *(MPEG-1 layer 3)*

Tsukuyomi - Moon Phase - Opening 01 - Creditless.mkv 01m31s
Vidéo : 720 x 480 *pixels* à 23.98 *fps (XVID MPEG-4)*
Audio : 2 canaux à 48000 *Hz* (32 *bits*) *(Vorbis)*

00m27s439 / 01m13s584

00:00 00:00:05 00:00:10 00:00:15 00:00:20 00:00:25 00:00:30 00:00:35 00:00:40 00:00:45 00:00:50 00:00:55 00:01:00 00:01:05 00:01:10 00:01:15 00:01:20 00:01:25 00:01:30 00:01:35 00:01:40 00:01:45 00:01:50

Piste vidéo

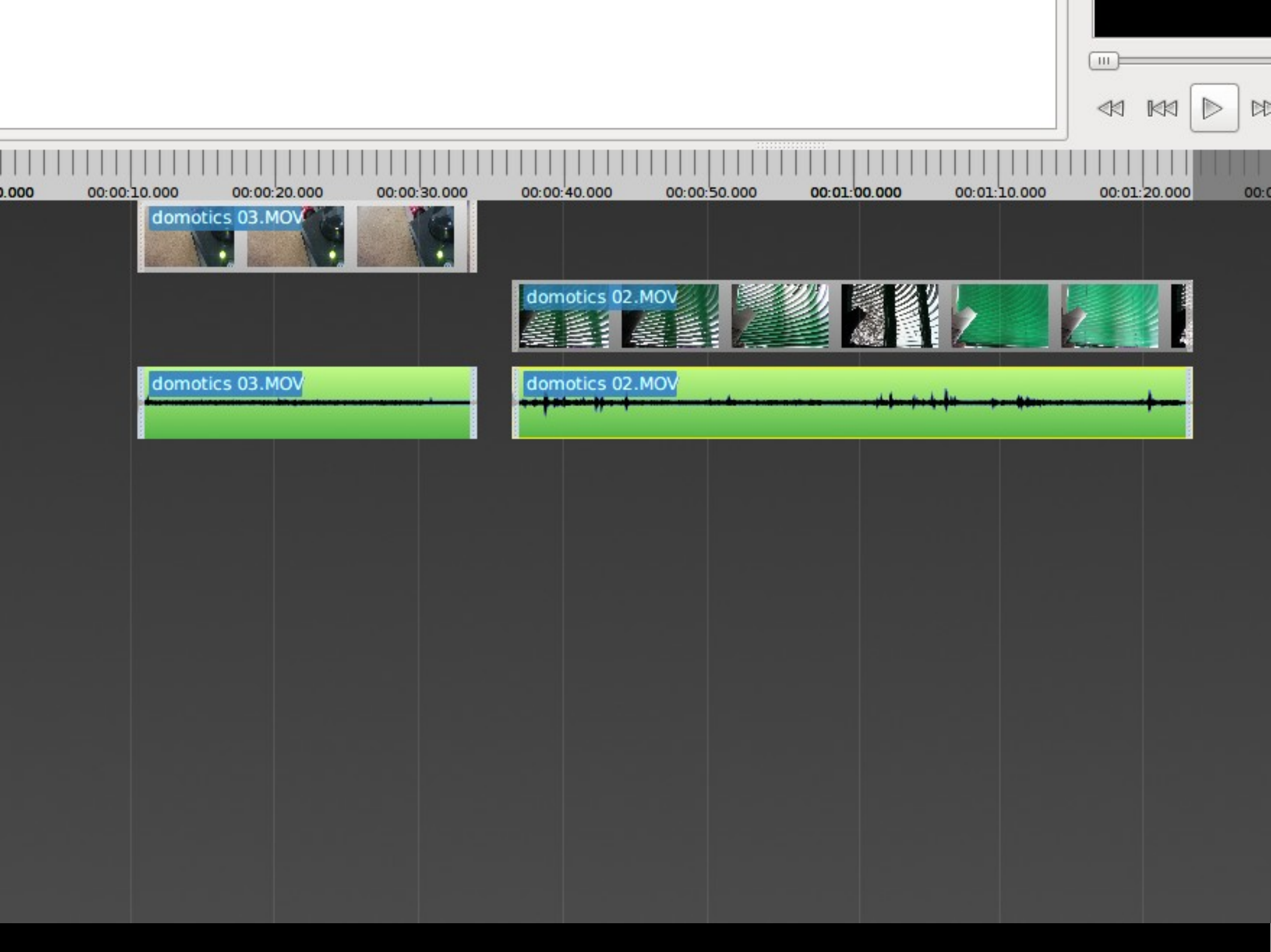
Alexandre jumps out of a bush | Eye panor... | Mountain Dew Commercial in... | Crazy motorcycle chase

Piste audio

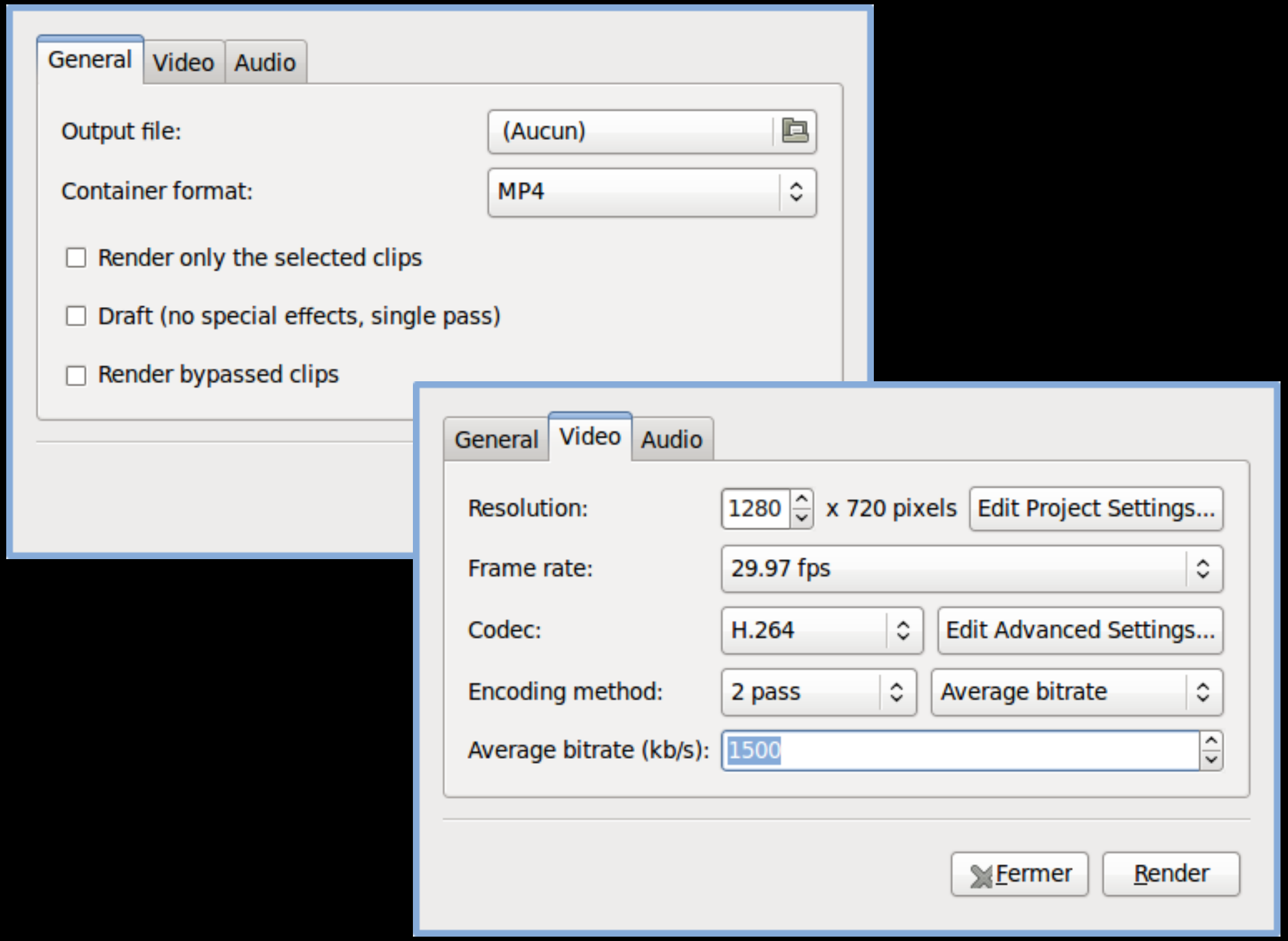
BG actors

Pyrotechs

Sending smoke signals


00:00:10.000
00:00:20.000
00:00:30.000
00:00:40.000
00:00:50.000
00:01:00.000
00:01:10.000
00:01:20.000
domotics 03.MOV
domotics 02.MOV
domotics 03.MOV
domotics 02.MOV

Render project
Fichier de sortie :
Choisissez un fichier
Paramètres
Video: 720 x 576 pixels at 25.00 fps (theoraenc)
Audio: 2 channels at 44100 Hz (16 bits) (vorbisenc)
Properties for x264enc
x264enc
Description : H264 Encoder
Auteur : Josef Zlomek <josef.zlomek@itonis.tv>
Propriétés
Bitrate 2048
VBV buffer capacity 600
Motion Estimation hexagonal search, radius 2
Subpixel Motion Estimation 1
Analyse GFlags
DCT8x8
Reference Frames 1
B-Frames 0
B-Pyramid
Weighted B-Frames
SPS ID 0
Trellis quantization
Key-frame maximal interval 0
Use CABAC
Annuler
Valider
Properties for Speex audio encoder
Speex audio encoder
Description : Encodes audio in Speex format
Auteur : Wim Taymans <wim@fluendo.com>
Propriétés
Quality 8,00000
Encoding Bit-rate 0
Mode Ultra Wide Band
VBR
ABR 0
VAD
DTX
Complexity 3
NFrames 1
last-message
GEEK
Seal of Approval


General
Video
Audio
Output file:
(Aucun)
Container format:
MP4
Render only the selected clips
Draft (no special effects, single pass)
Render bypassed clips
General
Video
Audio
Resolution:
1280
x 720 pixels
Edit Project Settings...
Frame rate:
29.97 fps
Codec:
H.264
Edit Advanced Settings...
Encoding method:
2 pass
Average bitrate
Average bitrate (kb/s):
1500
Fermer
Render

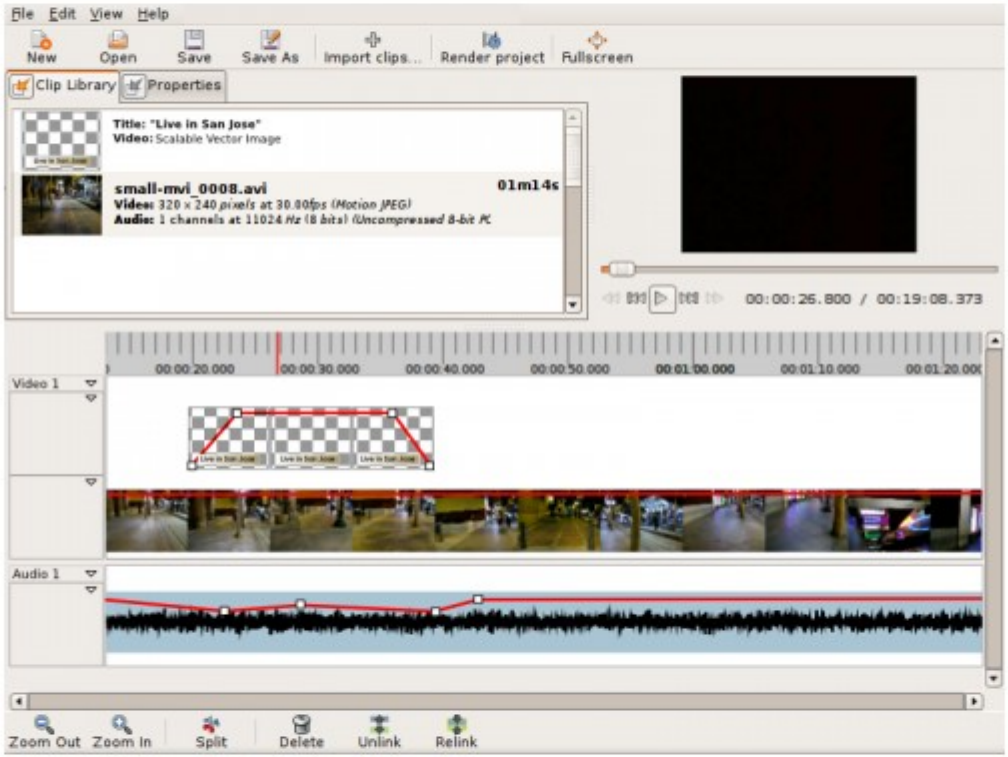
3 possible solutions

1) Hand-crafted interfaces for some/all existing codecs, fallback to auto-generated stuff

2) Come up with some scheme for generating better UI (things like mutually exclusive options) and maintain that, since it would be external to gstreamer

3) *Somehow* persuade gstreamer developers to add this functionality

UI Design



navigation
- Main Page
- Downloads
- Current events
- Developers
- Recent changes

links
- GStreamer

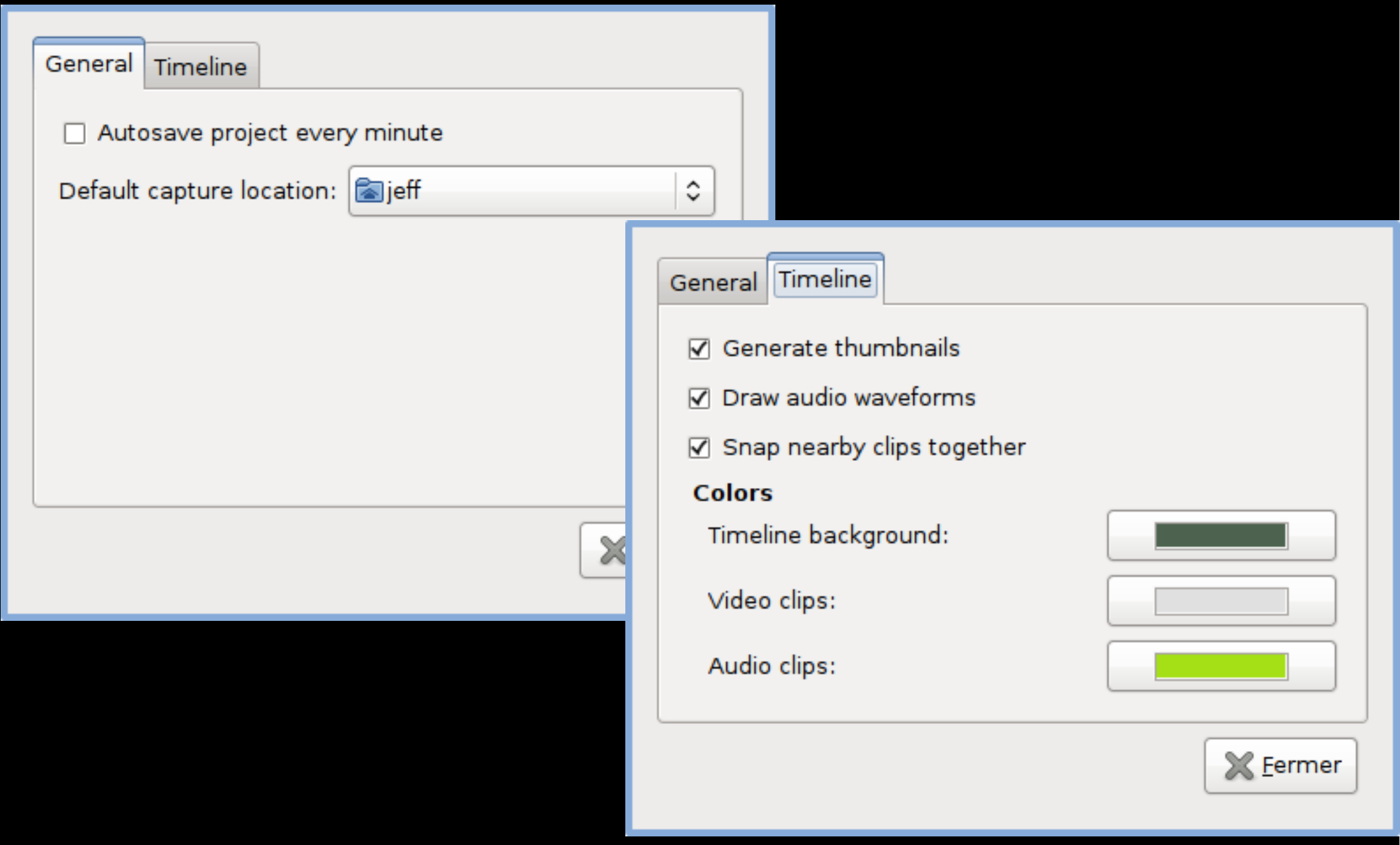
search
Go Search

toolbox
- What links here
- Related changes
- Upload file
- Special pages
- Printable version
- Permanent link

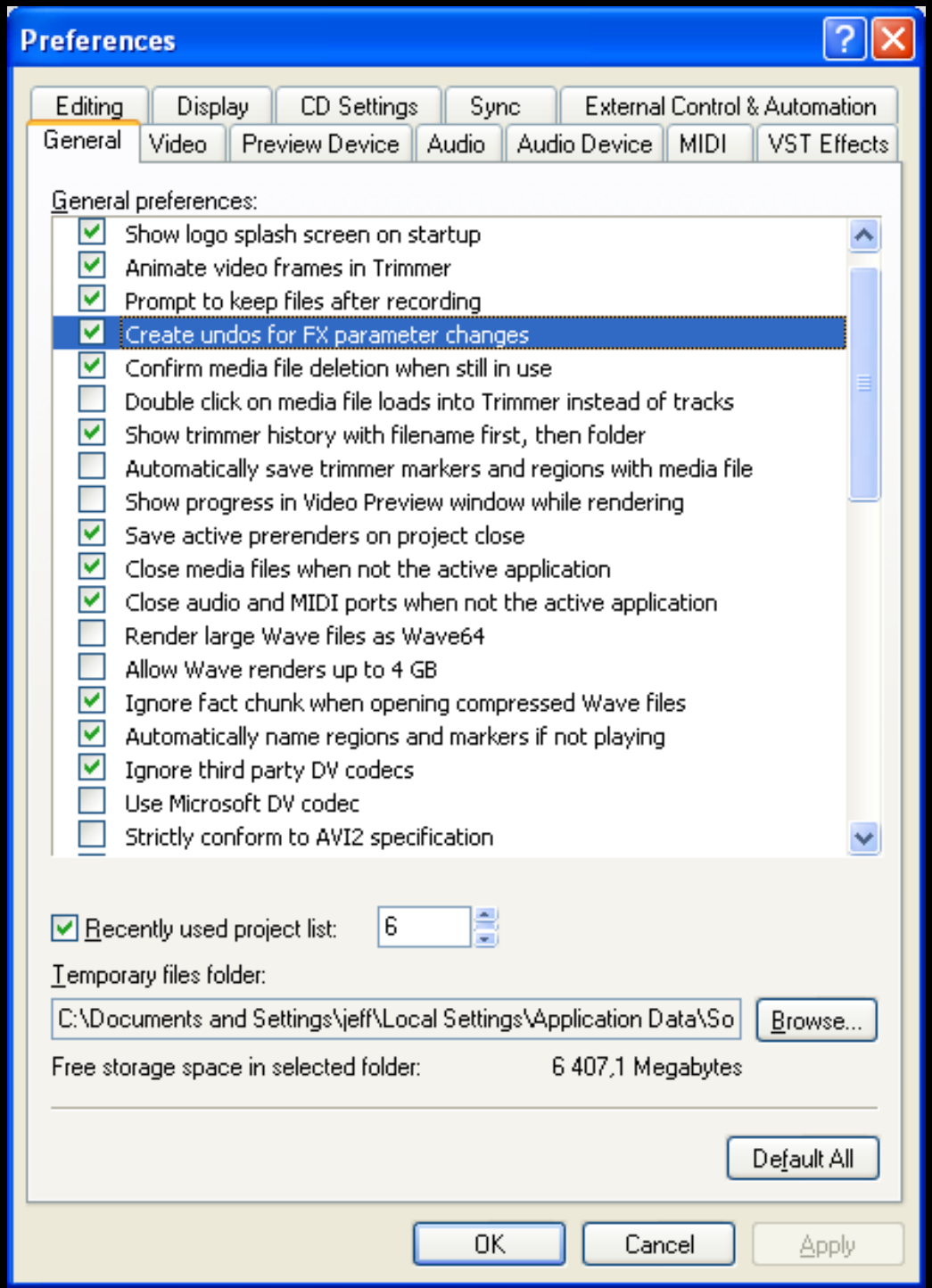
Contents [hide]

1 To Be Done
1.1 Editing
2 Design Principles
2.1 Noun-Verb Interaction
3 Representative Tasks

Fight Featuritis



VEGAS: 12 TABS OF THIS SHIT.



Reasons for adding an option

- More options can't hurt... *right?*
- « So many options! This is really worth the $549.95 pricetag! It must be *really* professional! »
- Users asked for them (the *Homer* car)
- Problems solved the lazy way
- **Actual controversial feature that really deserved an option!**

Photo: Hamed Saber http://flickr.com/photos/hamed/327939900/

Wow, what a cool app!

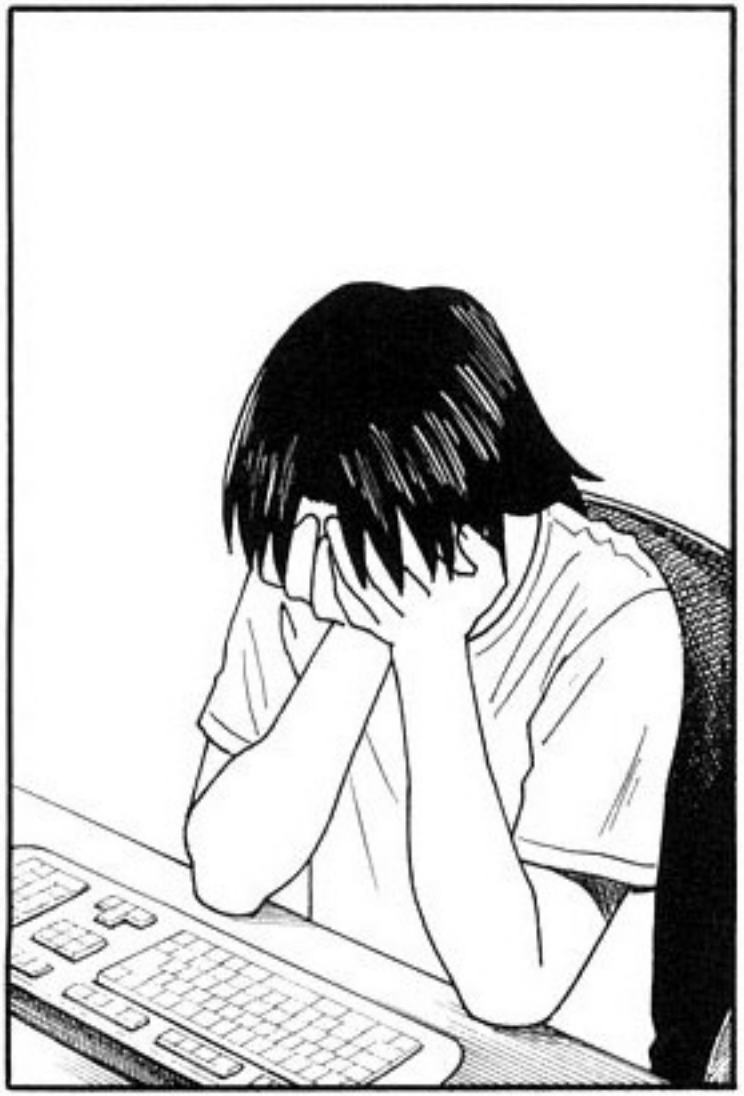
It is open-source...

It should be ready in a few months, at most.

... RIGHT?

The plan

- Start working on a non-linear video editor project
- ???
- Take the world by surprise!



I'D HIT IT
WITH A
CROWBAR

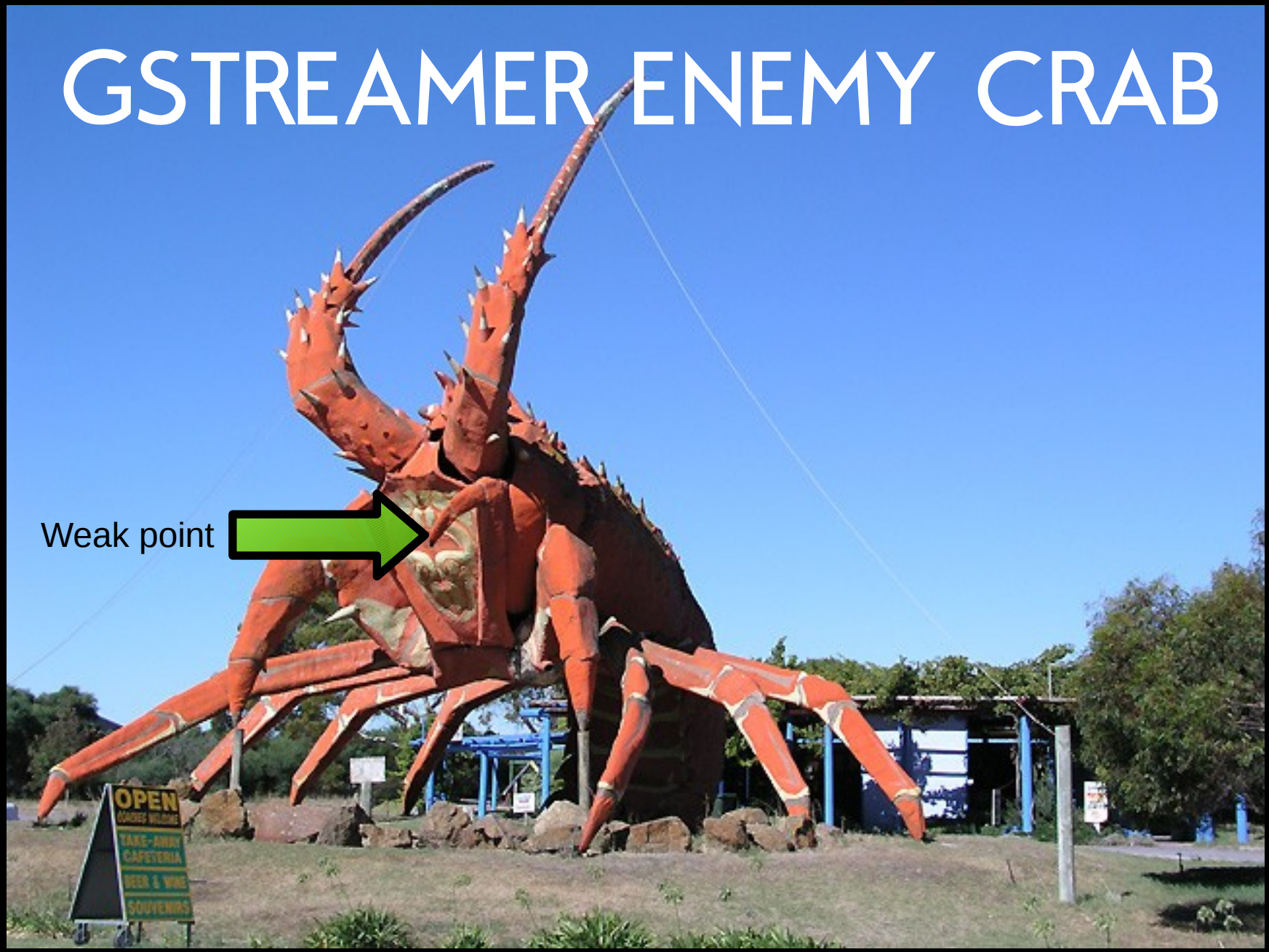
I'D HIT IT

WITH TWO CROWBARS

I'D HIT IT

WITH THREE CROWBARS

GSTREAMER ENEMY CRAB



MASSIVE DAMAGE

Why all the hype?

<nekohayo> just a thought... how do you folks intend to do titling? perhaps it could **bring up inkscape** with custom canvas parameters, **save the SVG** into the pitivi project and **render to PNG** and **treat the title as a still**? or do you have different plans?

<bilboed-pi> nekohayo, for starters, I was just considering using **the available textoverlay plugin** (which uses pango)

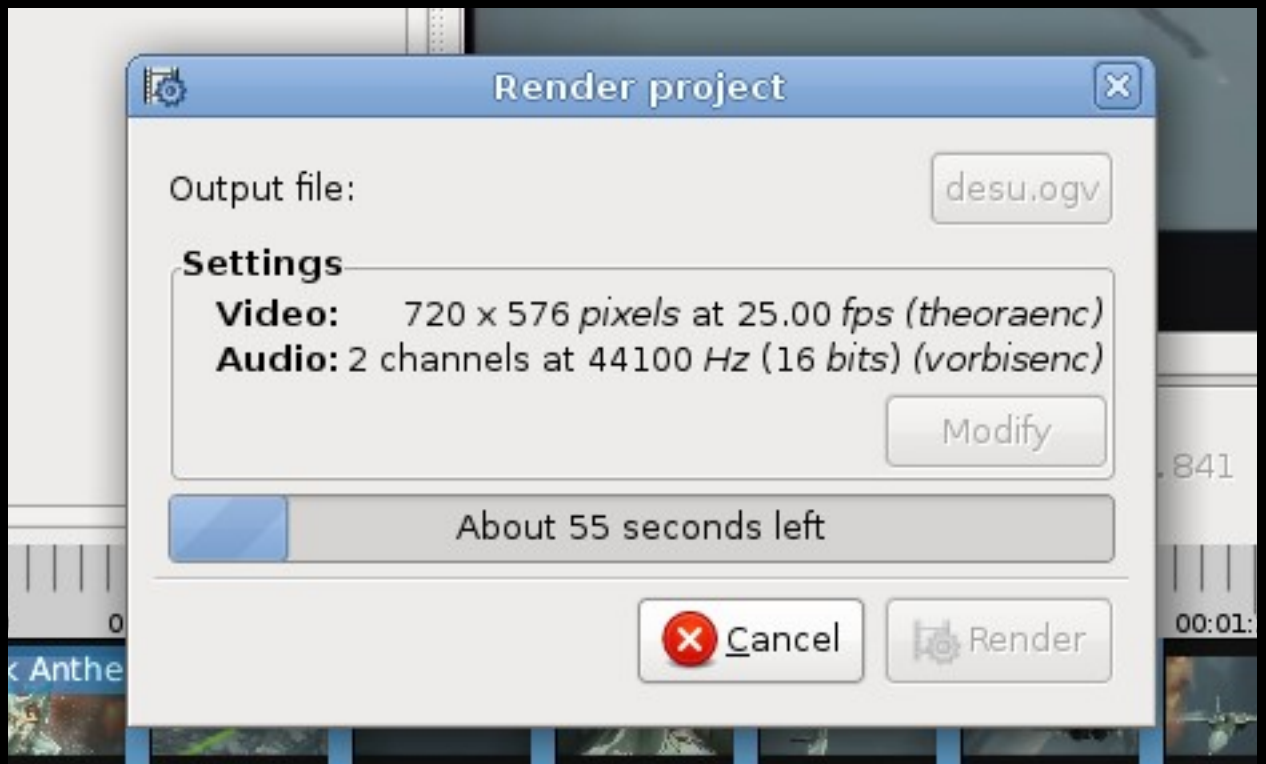
<nekohayo> oh, I thought it would have been harder than that

<bilboed-pi> nope, **gstreamer does everything for us**... we just need to integrate it properly in pitivi

<nekohayo> that's great to hear

http://flickr.com/photos/timmygunz/34698267/

Render project
Fichier de sortie :
desu.ogv
Paramètres
Video: 720 x 576 pixels at 25.00 fps (theoraenc)
Audio: 2 channels at 44100 Hz (16 bits) (vorbisenc)
Modifier
About 00m29s left
Annuler
Render


Render project
Output file:
desu.ogv
Settings
Video: 720 x 576 pixels at 25.00 fps (theoraenc)
Audio: 2 channels at 44100 Hz (16 bits) (vorbisenc)
Modify
About 55 seconds left
Cancel
Render

Reality Check

"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. Which is why this can only be delivered in any user-friendly fashion by Red Hat/Novell/Ubuntu (or Google, if they want to be more helpful to Linux users).

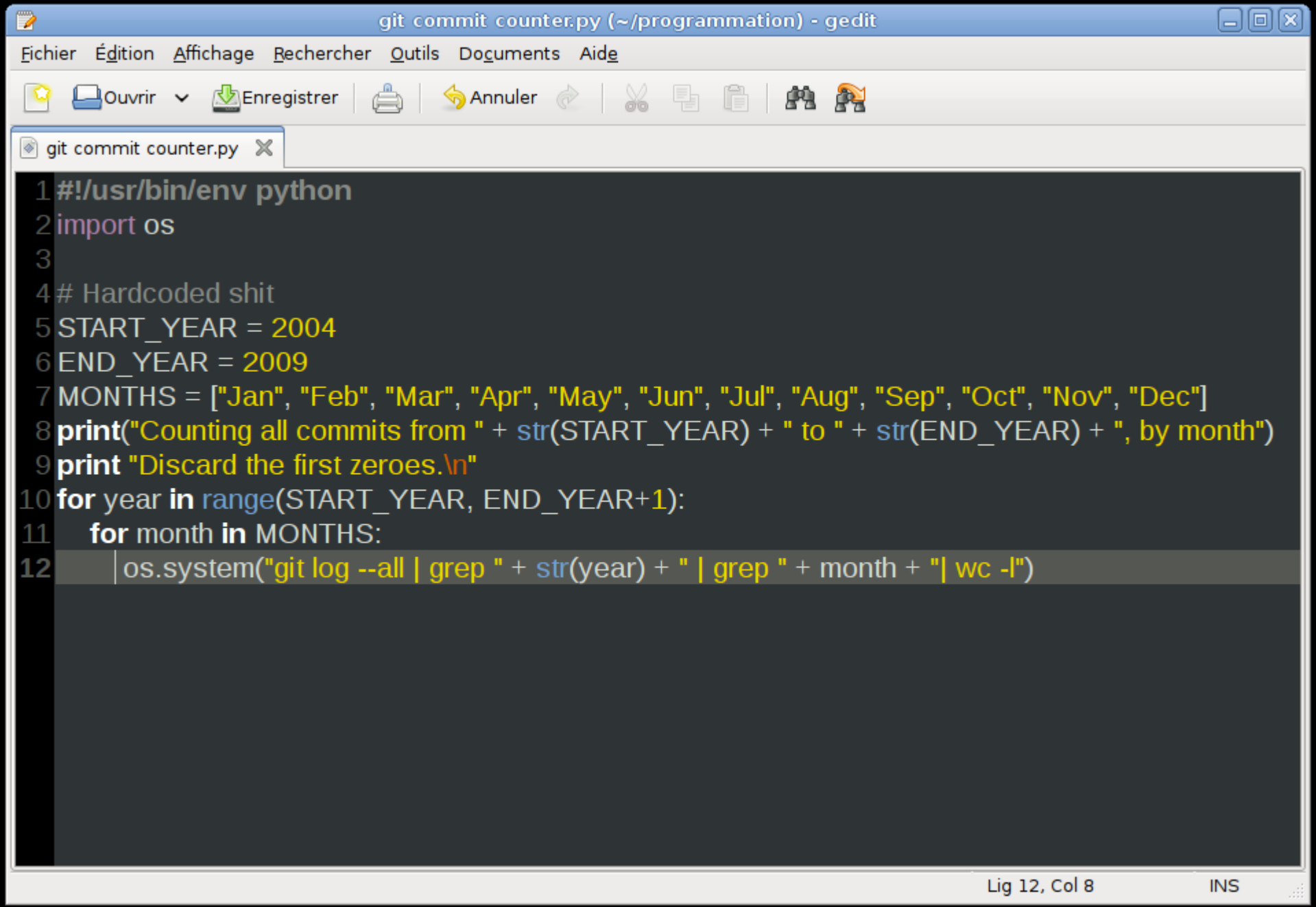
It will take 2 years to get there, $100,000×10x2=2 million USD. That's the *minimum* you need to develop such an app [...]"

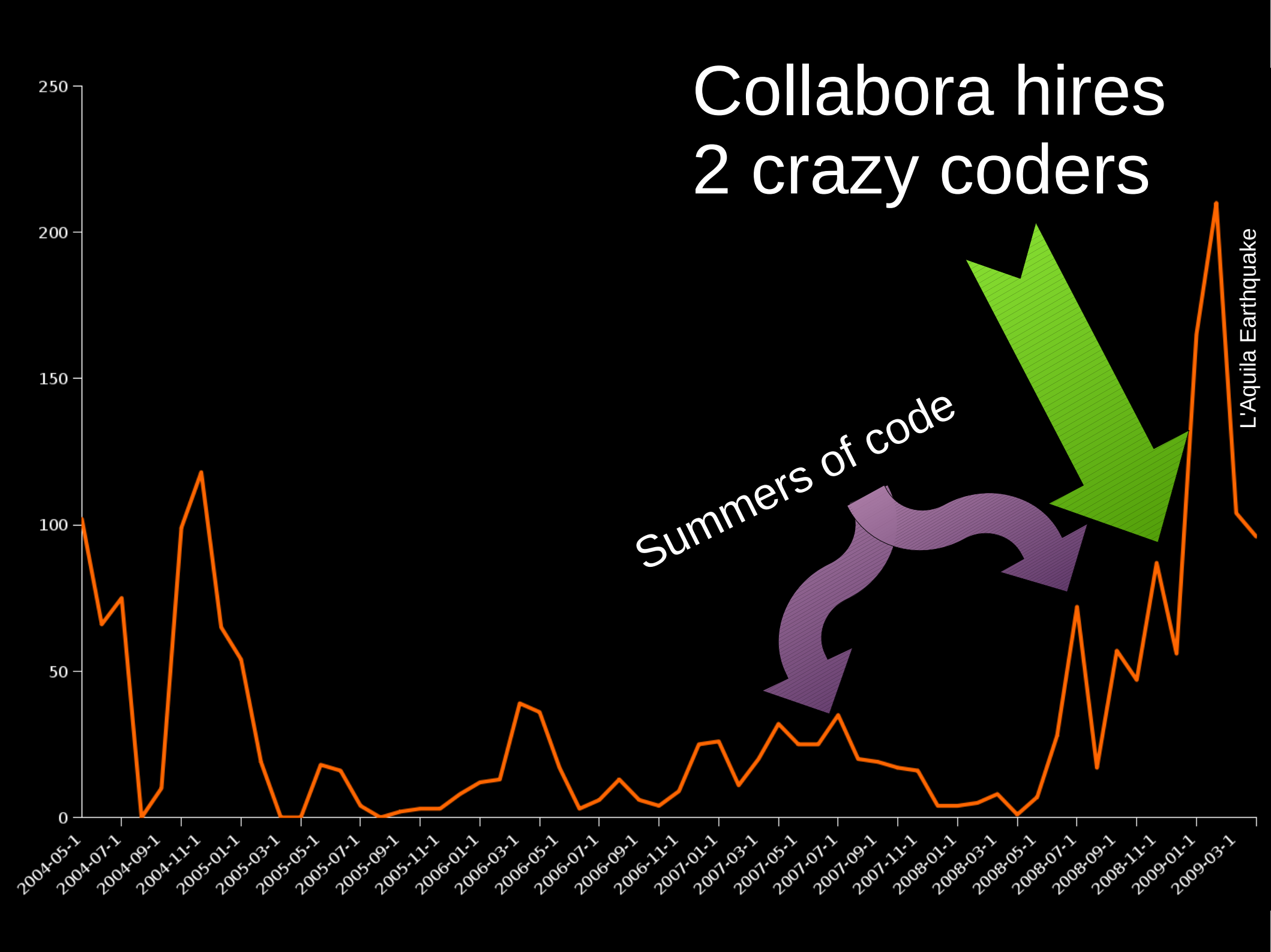
– Eugenia Loli Queru, 2008 (source)

Funding

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

Coding. I'm doing it wrong.




Collabora hires
2 crazy coders
Summers of code
L'Aquila Earthquake
250
200
150
100
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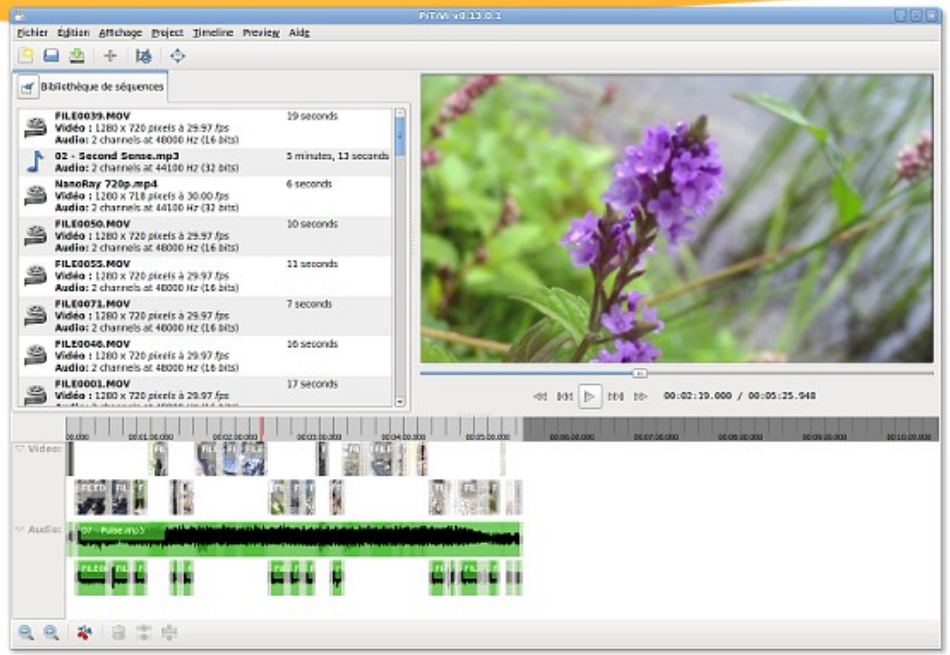
Why it's needed

- The next Killer App
- Open movies, open formats
- Webcams, screencasts, tutorials, demos
- Transcoding
- Editing conference videos? ¬_¬

PiTiVi

The Video Editor

- Screenshots/showcase
- Download
- Documentation
- Contributing
- Bugs?
- Contact



Free and Open Source.

PiTiVi will not ask you for licensing fees or lock you out of your data with DRM. It and will keep improving with each new release.

PiTiVi is mostly written in Python (a flexible, easy to learn high-level programming language), which helps lower barriers of entry to new contributors. Join us in making Pitivi a world class video editing suite!

Anything in, anything out.

As long as it is supported by the GStreamer Multimedia Framework, PiTiVi will handle any format you throw at it.

There is no eternal newbie.

A carefully-crafted user interface can suit both the newcomer and the professional.

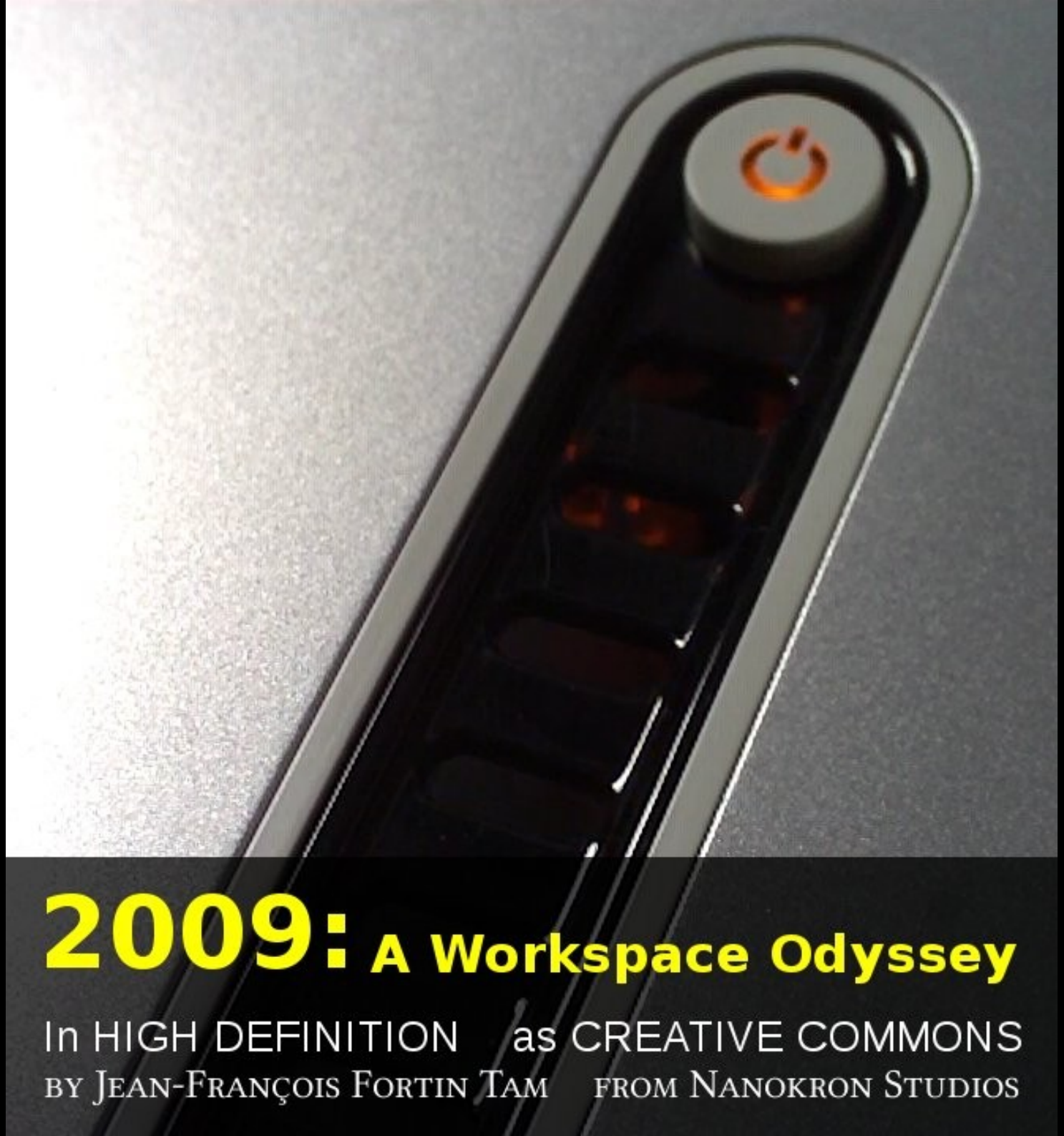
Extensible (ponies not included).

A plug-in system allows extending PiTiVi without needing to plunge at its core.

Usability counts.

We have some highly trained designer monkeys that can recite the GNOME Human Interface Guidelines in their sleep, *backwards*, all for you.

Page last modified: May 04 2009 10:33:02.

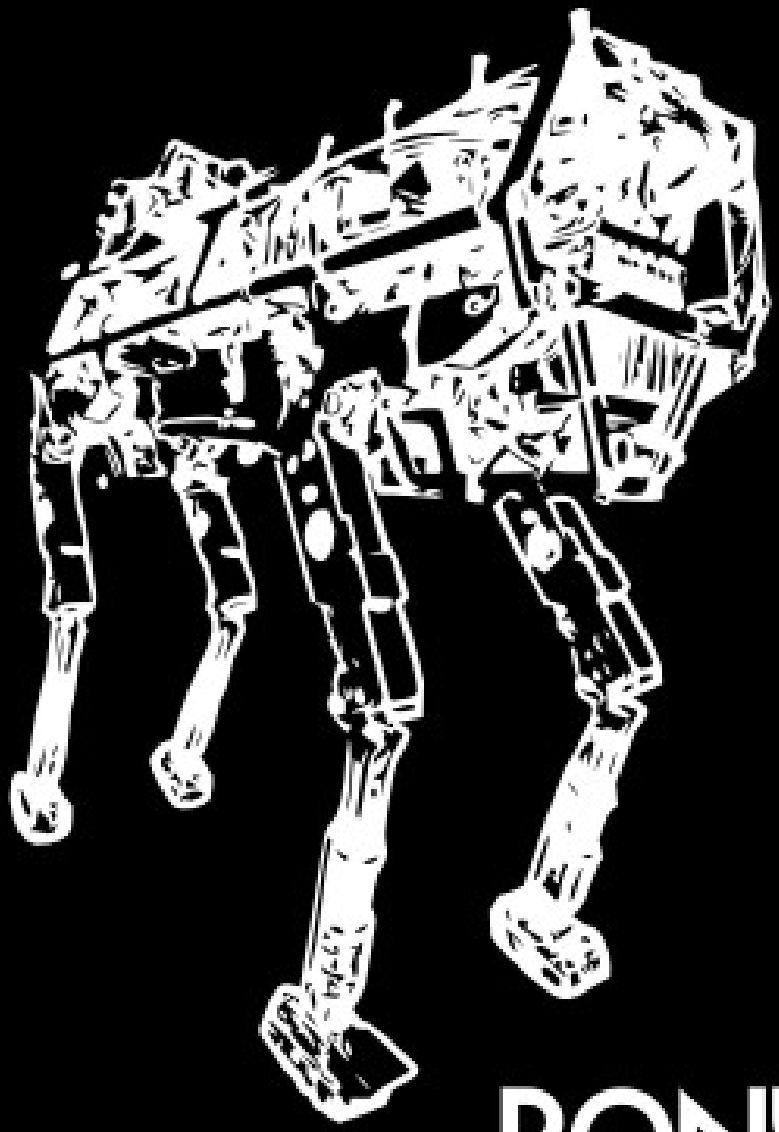


2009: A Workspace Odyssey

In HIGH DEFINITION as CREATIVE COMMONS

BY JEAN-FRANÇOIS FORTIN TAM FROM NANOKRON STUDIOS

YES!
You can have a



PONY!

Demo & Sample

Thanks!

- Documentation and all that jazz: http://pitivi.org

- Contacting me: http://jeff.ecchi.ca
- Movies: http://studios.ecchi.ca