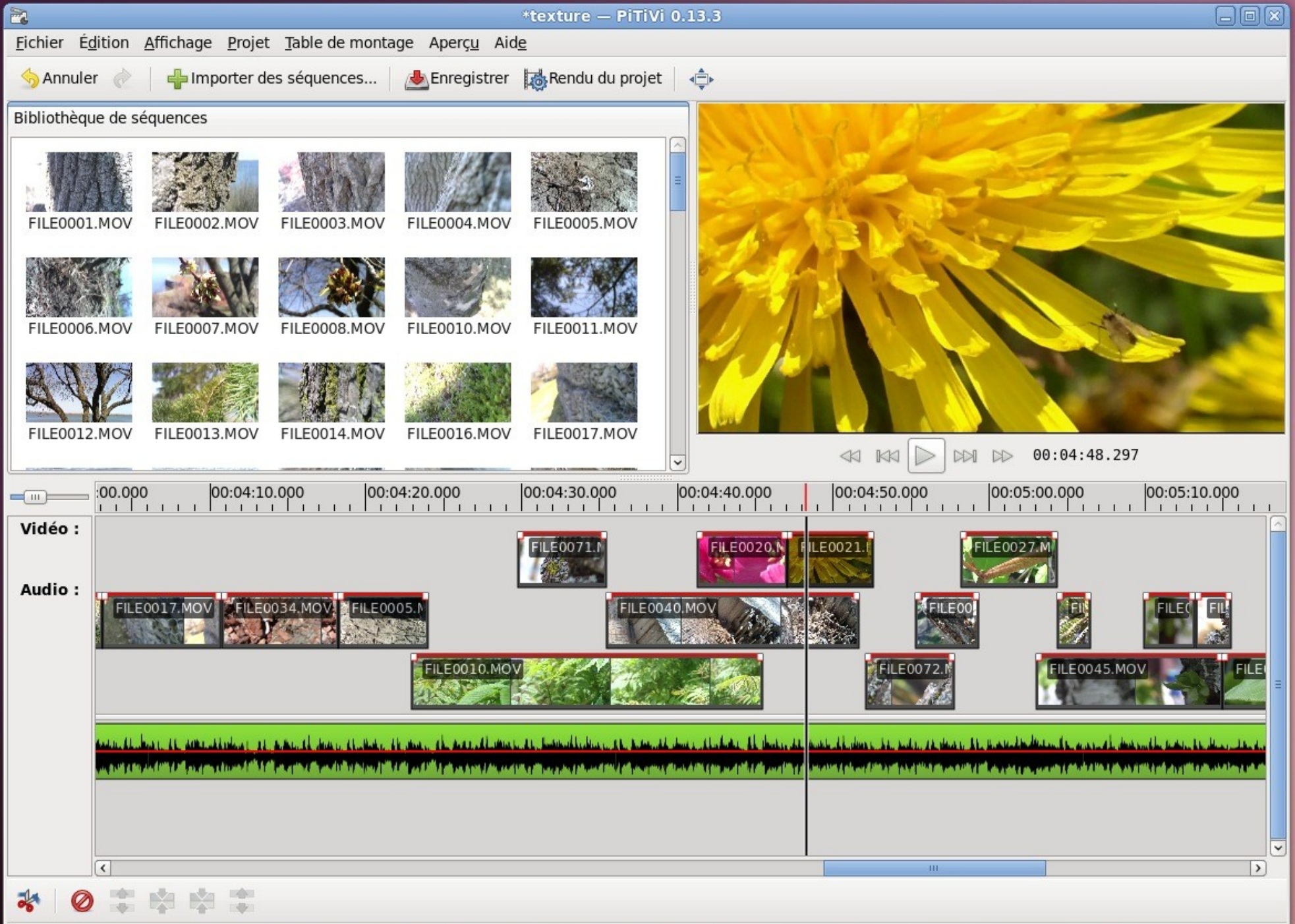


# PiTiVi



Logiciel libre de montage vidéo

Jean-François Fortin Tam, B.sc. psy.





*Ceci n'est pas une pipe.*









NANOKRON  
studios



# THE LINUX FORCE



Notifications

File Edit View Help

Refresh All Mark all read Add

Active	Type	Name
<input checked="" type="checkbox"/>		evolution releases
<input checked="" type="checkbox"/>		ecchi wiki
<input checked="" type="checkbox"/>		wordpress svn tags
<input type="checkbox"/>		OpenOffice performance
<input checked="" type="checkbox"/>		kirika
<input type="checkbox"/>		navit trac
<input checked="" type="checkbox"/>		DJ TV
<input type="checkbox"/>		test
<input checked="" type="checkbox"/>		Seph to Kiddo
<input checked="" type="checkbox"/>		specto woutc
<input type="checkbox"/>		Jeffou
<input checked="" type="checkbox"/>		neko hayo
<input checked="" type="checkbox"/>		université
<input checked="" type="checkbox"/>		psy-chose
<input checked="" type="checkbox"/>		jeff@ecchi
<input type="checkbox"/>		kayami
<input type="checkbox"/>		sonoka

About Specto




## Specto 0.3

Copyright © Jean-François Fortin Tam & Wout Clymans

[Specto's Website](#)

Credits License Close

General Extra information

 **Name:** université

**Last changed:** Saturday 10 Jan 2009 ...

**Username:** jfumontreal@gmail.com

**Unread messages:** 1

Jump to

Mark as read

Edit



Chasseur de bugs  
Level 19



### Basic stats

Jean-François Fortin Tam

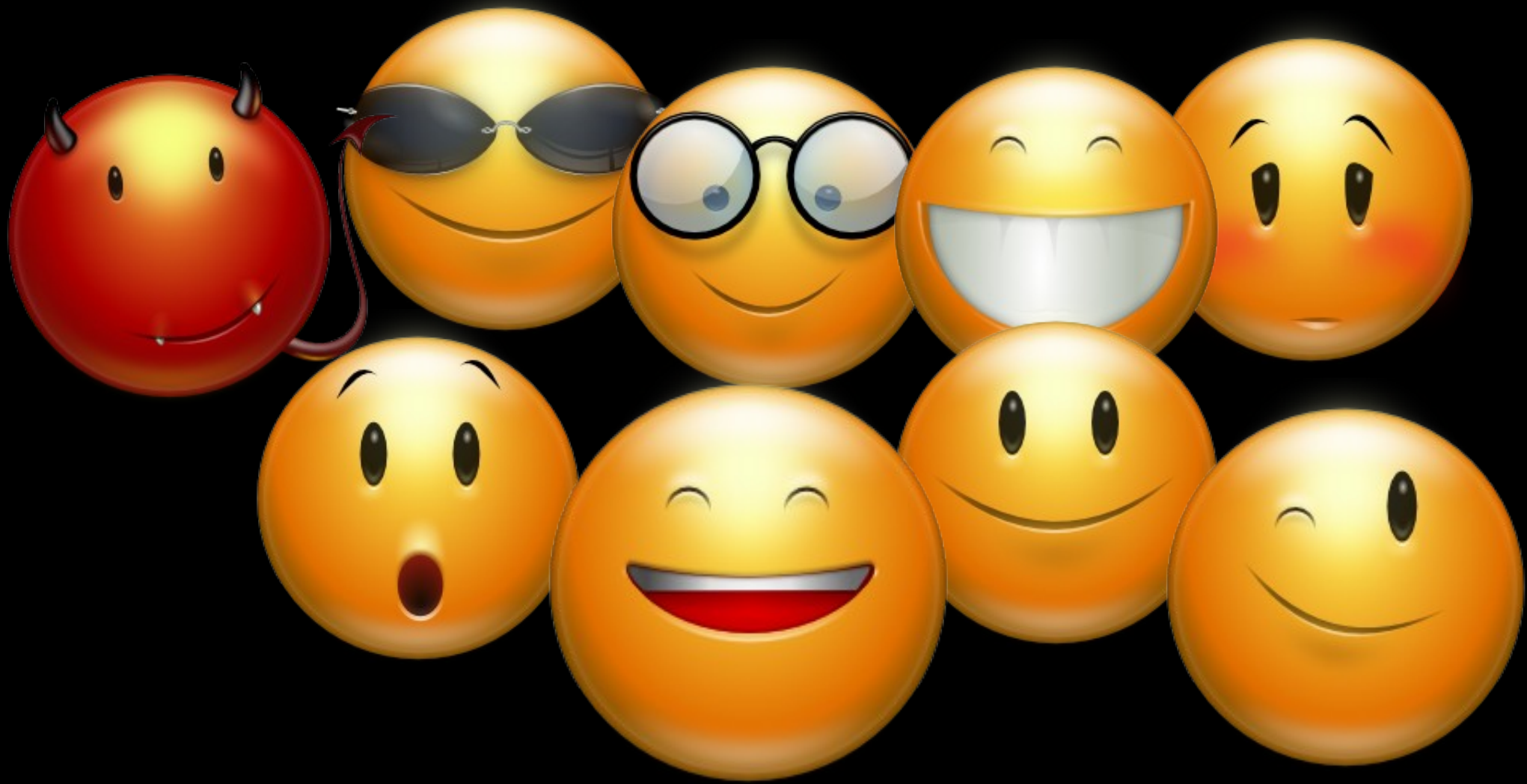
- added 2166 comments to bugs.
- closed 106 bugs.
- reported 524 bugs.
- gathered 19 points.

### Interested products

- [pitivi](#)

### Reports

- [All closed bugs](#)
- [All bugs cc'ed](#)
- [All bugs commented](#)



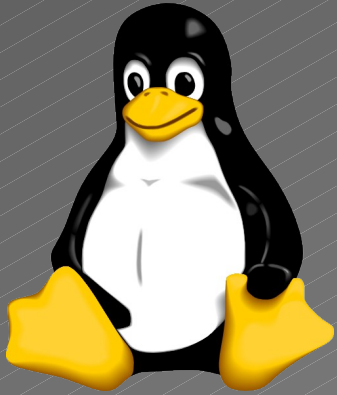
# Le plan

- GStreamer et Python
- PiTiVi
- Interrompez-moi.











Matroska, Ogg, AVI, MPEG  
Theora, Xvid, DivX  
DV, HDV  
MPEG-2  
Vorbis, MP3, Flac  
H.264, Dirac

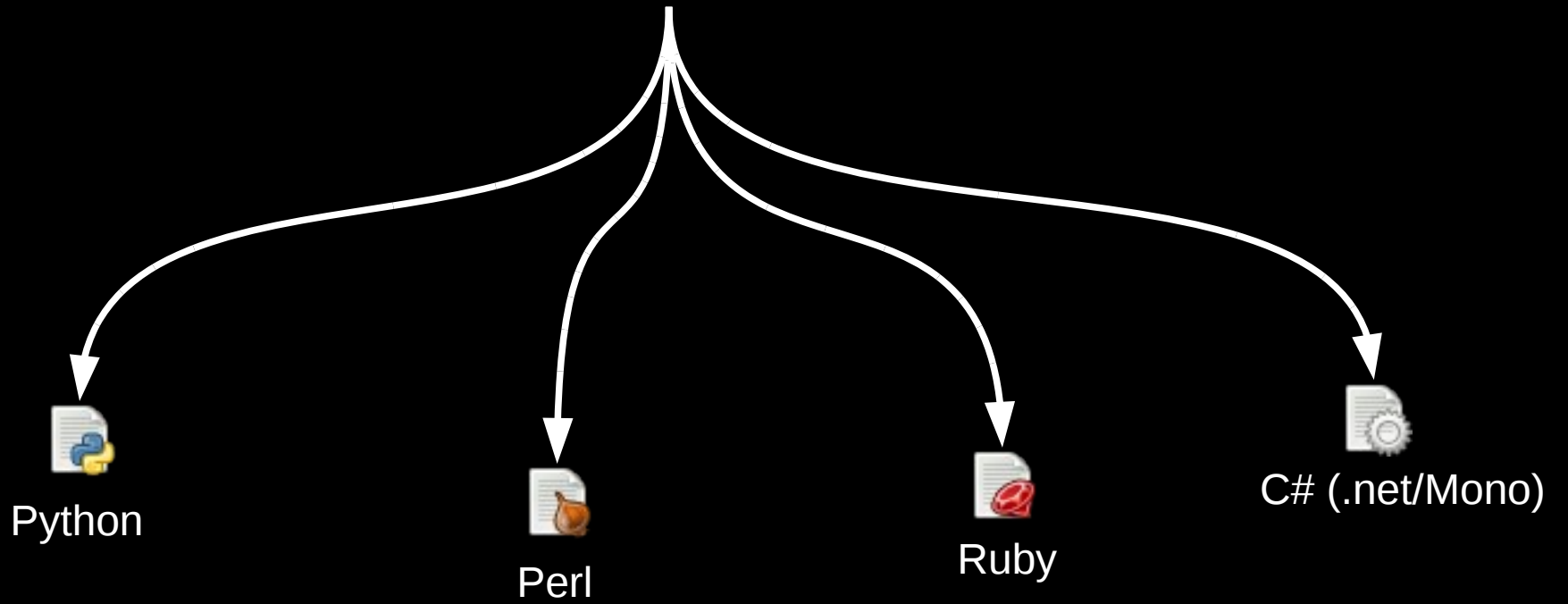
Effets spéciaux  
Traitement  
...etc.

PiTiVi  
Rhythmbox  
Jokosher  
Banshee  
Transmageddon  
Cheese  
Telepathy  
Totem  
Miro  
...etc.

Package	Installed Version	Description
<input checked="" type="checkbox"/> gir1.0-gstreamer-0.10	0.10.28-1	Description: GObject introspection data for the GStreamer library
<input checked="" type="checkbox"/> gstreamer0.10-alsa	0.10.28-1	GStreamer plugin for ALSA
<input checked="" type="checkbox"/> gstreamer0.10-ffmpeg	0.10.10-1	FFmpeg plugin for GStreamer
<input checked="" type="checkbox"/> gstreamer0.10-gnonlin	0.10.15-1	non-linear editing module for GStreamer
<input checked="" type="checkbox"/> gstreamer0.10-nice	0.0.10-2build1	ICE library (GStreamer plugin)
<input checked="" type="checkbox"/> gstreamer0.10-pitfdll	0.9.1.1+cvs200802	GStreamer plugin for using MS Windows binary codecs
<input checked="" type="checkbox"/> gstreamer0.10-plugins-bad	0.10.18-1ubuntu1	GStreamer plugins from the "bad" set
<input checked="" type="checkbox"/> gstreamer0.10-plugins-bad-m	0.10.18-0ubuntu1	GStreamer plugins from the "bad" set (Multiverse Variant)
<input checked="" type="checkbox"/> gstreamer0.10-plugins-base	0.10.28-1	GStreamer plugins from the "base" set
<input checked="" type="checkbox"/> gstreamer0.10-plugins-base-a	0.10.28-1	GStreamer helper programs from the "base" set
<input checked="" type="checkbox"/> gstreamer0.10-plugins-good	0.10.21-1ubuntu2	GStreamer plugins from the "good" set
<input checked="" type="checkbox"/> gstreamer0.10-plugins-ugly	0.10.14-1	GStreamer plugins from the "ugly" set
<input checked="" type="checkbox"/> gstreamer0.10-plugins-ugly-m	0.10.14-0ubuntu1	GStreamer plugins from the "ugly" set (Multiverse Variant)
<input checked="" type="checkbox"/> gstreamer0.10-pulseaudio	0.10.21-1ubuntu2	GStreamer plugin for PulseAudio
<input checked="" type="checkbox"/> gstreamer0.10-tools	0.10.28-1	Tools for use with GStreamer
<input checked="" type="checkbox"/> gstreamer0.10-x	0.10.28-1	GStreamer plugins for X11 and Pango
<input checked="" type="checkbox"/> libgstfarsight0.10-0	0.0.17-2ubuntu1	Audio/Video communications framework: core library
<input checked="" type="checkbox"/> libgstreamer-plugins-base0.10	0.10.28-1	GStreamer libraries from the "base" set
<input checked="" type="checkbox"/> libgstreamer-plugins-base0.10-dev	0.10.28-1	GStreamer development files for libraries from the "base" set
<input checked="" type="checkbox"/> libgstreamer0.10-0	0.10.28-1	Core GStreamer libraries and elements
<input checked="" type="checkbox"/> libgstreamer0.10-dev	0.10.28-1	GStreamer core development files
<input checked="" type="checkbox"/> python-gst0.10	0.10.18-1	generic media-playing framework (Python bindings)
<input type="checkbox"/> gir1.0-gst-plugins-base-0.10		Description: GObject introspection data for the GStreamer Plugins Base
<input type="checkbox"/> gstreamer0.10-doc		GStreamer core documentation and manuals
<input type="checkbox"/> gstreamer0.10-esd		GStreamer plugin for ESD
<input type="checkbox"/> gstreamer0.10-ffmpeg-dbg		FFmpeg plugin for GStreamer (debug symbols)



# GStreamer (en C)



Pile de plugins

```
graph TD; A[Pile de plugins] --> B[GStreamer]; B --> C[GNonLin]; C --> D[PiTiVi];
```

GStreamer

GNonLin

PiTiVi

## Exporter les paramètres

### Sortie vidéo

720p HD - 29,97 fps

Largeur : 1280

Hauteur : 720

Cadence des images : 29,97 fps

### Sortie audio

CD

Canaux : Stéréo (2)

Taux : 44,1 KHz

Palette : 16 bit

### Exporter vers

Conteneur : Matroska muxer [matroskamux]

Codec audio : Vorbis audio encoder [vorbisenc]

Codec vidéo : Theora video encoder [theoraenc]



- Ogg muxer [oggmux]
- FFmpeg ASF format muxer [ffmux\_asf]
- FFmpeg ASF format muxer [ffmux\_asf\_stream]
- FFmpeg AVI format muxer [ffmux\_avi]
- FFmpeg Flash 9 (AVM2) format muxer [ffmux\_avm2]
- FFmpeg DV video format muxer [ffmux\_dv]
- FFmpeg FFM (FFserver live feed) format muxer [ffmux\_ffm]
- FFmpeg FLV format muxer [ffmux\_flv]
- FFmpeg GXF format muxer [ffmux\_gxf]
- FFmpeg iPod H.264 MP4 format muxer [ffmux\_ipod]
- FFmpeg Matroska file format muxer [ffmux\_matroska]
- FFmpeg MOV format muxer [ffmux\_mov]
- FFmpeg MP4 format muxer [ffmux\_mp4]
- FFmpeg MPEG-1 System format muxer [ffmux\_mpeg]
- FFmpeg MPEG-1 System format (VCD) muxer [ffmux\_vcd]
- FFmpeg MPEG-2 PS format (DVD VOB) muxer [ffmux\_dvd]
- FFmpeg MPEG-2 PS format (VOB) muxer [ffmux\_svcd]
- FFmpeg MPEG-2 PS format (VOB) muxer [ffmux\_vob]
- FFmpeg MPEG-2 transport stream format muxer [ffmux\_mpegts]
- FFmpeg Material eXchange Format muxer [ffmux\_mxf]
- FFmpeg Material eXchange Format, D-10 Mapping muxer [ffmux\_mxf\_d10]
- FFmpeg NUT format muxer [ffmux\_nut]
- FFmpeg PSP MP4 format muxer [ffmux\_esp]
- FFmpeg RealMedia format muxer [ffmux\_rm]
- FFmpeg raw id RoQ format muxer [ffmux\_RoQ]
- FFmpeg Flash format muxer [ffmux\_swf]
- FFmpeg 3GP2 format muxer [ffmux\_3g2]
- FFmpeg 3GP format muxer [ffmux\_3gp]
- QuickTime Muxer [qtmux]
- MP4 Muxer [mp4mux]
- 3GPP Muxer [gppmux]
- MXF muxer [mxfmux]
- MPEG Transport Stream Muxer [mpegtsmux]
- FLV muxer [flvmux]
- ASF muxer [asfmux]
- Matroska muxer [matroskamux]
- Avi muxer [avimux]
- Multipart muxer [multipartmux]
- MVE Multiplexer [mvemux]

## Exporter les paramètres

### Sortie vidéo

720p HD - 29,97 fps

Largeur : 1280

Hauteur : 720

Cadence des images : 29,97 fps

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CD

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Conteneur : Matroska muxer [matroskamux]

Codec audio : Vorbis audio encoder [vorbisenc]

Codec vidéo : Theora video encoder [theoraenc]

 Annuler

FFmpeg ASUS V2 encoder [ffenc\_asv2]  
FFmpeg BMP image encoder [ffenc\_bmp]  
FFmpeg VC3/DNxHD encoder [ffenc\_dnxhd]  
FFmpeg DV (Digital Video) encoder [ffenc\_dvvideo]  
FFmpeg FFmpeg codec #1 encoder [ffenc\_ffv1]  
FFmpeg Huffiyuv FFmpeg variant encoder [ffenc\_ffvhuff]  
FFmpeg Flash Screen Video encoder [ffenc\_flashsv]  
FFmpeg Flash Video (FLV) encoder [ffenc\_flv]  
FFmpeg H.261 encoder [ffenc\_h261]  
FFmpeg H.263 / H.263-1996 encoder [ffenc\_h263]  
FFmpeg H.263+ / H.263-1998 / H.263 version 2 encoder [ffenc\_h263p]  
FFmpeg Huffiyuv / HuffYUV encoder [ffenc\_huffiyuv]  
FFmpeg Lossless JPEG encoder [ffenc\_ljpeg]  
FFmpeg MJPEG (Motion JPEG) encoder [ffenc\_mjpeg]  
FFmpeg MPEG-1 video encoder [ffenc\_mpeg1video]  
FFmpeg MPEG-2 video encoder [ffenc\_mpeg2video]  
FFmpeg MPEG-4 part 2 encoder [ffenc\_mpeg4]  
FFmpeg MPEG-4 part 2 Microsoft variant version 1 encoder [ffenc\_msmpeg4v1]  
FFmpeg MPEG-4 part 2 Microsoft variant version 2 encoder [ffenc\_msmpeg4v2]  
FFmpeg MPEG-4 part 2 Microsoft variant version 3 encoder [ffenc\_msmpeg4]  
FFmpeg PAM (Portable AnyMap) image encoder [ffenc\_pam]  
FFmpeg PBM (Portable BitMap) image encoder [ffenc\_pbm]  
FFmpeg PGM (Portable GrayMap) image encoder [ffenc\_pgm]  
FFmpeg PGM\_YUV (Portable GrayMap YUV) image encoder [ffenc\_pgmyuv]  
FFmpeg PNG image encoder [ffenc\_png]  
FFmpeg PPM (Portable PixelMap) image encoder [ffenc\_ppm]  
FFmpeg QuickTime Animation (RLE) video encoder [ffenc\_qtrle]  
FFmpeg id RoQ video encoder [ffenc\_roqvideo]  
FFmpeg RealVideo 1.0 encoder [ffenc\_rv10]  
FFmpeg RealVideo 2.0 encoder [ffenc\_rv20]  
FFmpeg Snow encoder [ffenc\_snow]  
FFmpeg Sorenson Vector Quantizer 1 encoder [ffenc\_svk1]  
FFmpeg Windows Media Video 7 encoder [ffenc\_wmv1]  
FFmpeg Windows Media Video 8 encoder [ffenc\_wmv2]  
FFmpeg Zip Motion Blocks Video encoder [ffenc\_zmbv]  
Dirac Encoder [schroenc]  
YUV4MPEG video encoder [y4menc]  
PNG image encoder [pngenc]  
JPEG image encoder [jpegenc]  
Smoke video encoder [smokeenc]  
MimEnc [mimenc]  
Dirac Encoder [diracenc]  
Vidéo brut



221+ plugins

1102+ fonctionnalités

# Un parmi tant d'autres...

PiTiVi, [KDEnlive, OpenShot], Blender, Kino,  
Avidemux, Cinelerra, OpenMovieEditor, Jashaka,  
Lives, Saya, Diva, VLC, Mencoder...

# Pourquoi PiTiVi

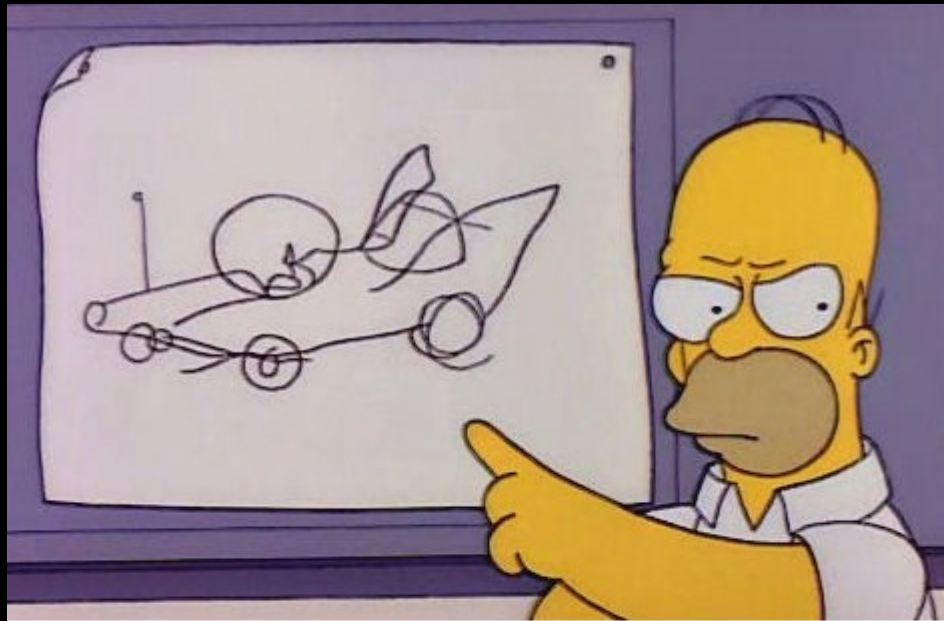
- GStreamer, Python et GTK+
- One size fits all
- Ne disparaîtra pas du jour au lendemain
- Bon design
- Implanté « de la bonne façon », *test suite* (TDD)
- Test « torture » pour GStreamer



Le design

fait la différence.





Images	Label	Icon	Filename	Media Type	Length	Video	Audio
	bin 1						
			05 Camera - dialogue.avi	video/audio	17s	720x576 25 fps	2 x 32000Hz 16 bit
			06 HP - slide dinosaurs.avi	video/audio	12s	720x576 25 fps	2 x 32000Hz 16 bit
			105 FUMEE SUPER.AVI	video/audio	28s	720x576 25 fps	2 x 48000Hz 16 bit
			45 VXG MARC ET BLASTE.AVI	video/audio	31s	720x576 25 fps	2 x 44100Hz 16 bit
			58 MARC ET VXG.AVI	video/audio	7s	720x576 25 fps	2 x 44100Hz 16 bit



Timeline Project

File Windows Help

Unit: Seconds Zoom: x16

Time: 0:07:00

00:00:08 00:00:16 00:00:24 00:00:32 00:00:40 00:00:48 00:00:56

Video A: [Timeline track with video thumbnails]

Fx A: [Timeline track with effects icons]

Transition: [Timeline track with transition icons]

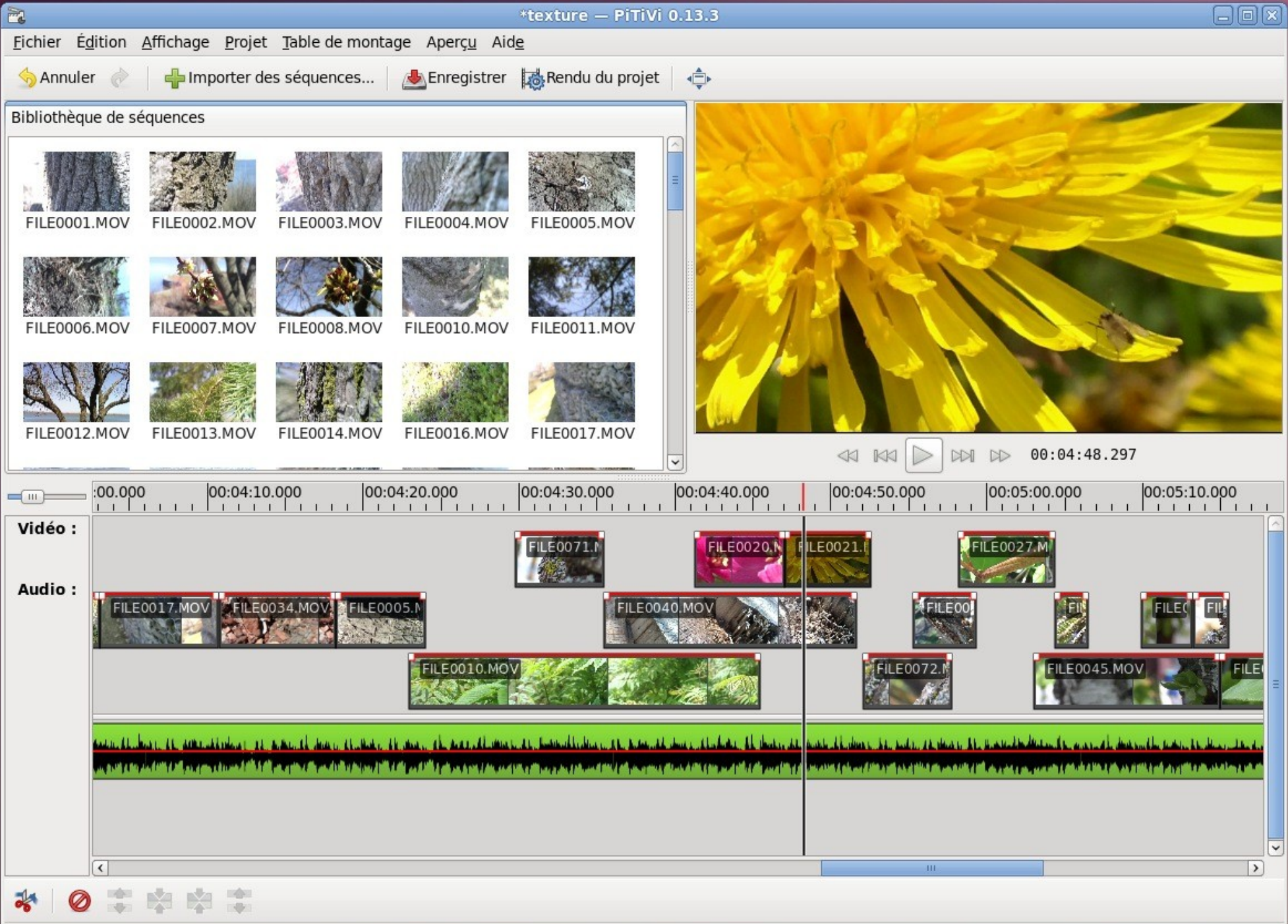
Fx B: [Timeline track with effects icons]

Video B: [Timeline track with video thumbnails]

Audio A: [Timeline track with audio waveforms]

Audio B: [Timeline track with audio waveforms]

- Effects
- Transition
    - BarWipe
    - LeftToRight
    - TopToBottom
  - Video
    - BoxWipe
    - TopLeft
    - TopRight
    - BottomRight
    - BottomLeft
    - TopCenter
    - RightCenter
    - BottomCenter
    - LeftCenter
  - Audio
    - FourBoxWipe
    - CornersIn
    - CornersOut







"save as" may be redundant with "save"?

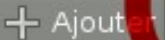
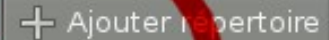

we already have this?

should be centered vertically (yalign=0.5)

Sources

	<b>fRO 01.ogg</b> Vidéo: 640 x 480 pi... Audio: 1 canaux à 7...	01m02s
	<b>fRO 02.ogg</b> Vidéo: 640 x 480 pi...	00m00s
	<b>fRO 03.ogg</b> Vidéo: 640 x 480 pi... Audio: 1 canaux à 7...	00m19s
	<b>fRO 04.ogg</b> Vidéo: 640 x 480 pi... Audio: 1 canaux à 7...	01m05s
	<b>fRO 05.ogg</b> Vidéo: 640 x 480 pi... Audio: 1 canaux à 7...	01m15s
	<b>fRO 06.ogg</b> Vidéo: 640 x 480 pi... Audio: 1 canaux à 7...	00m36s

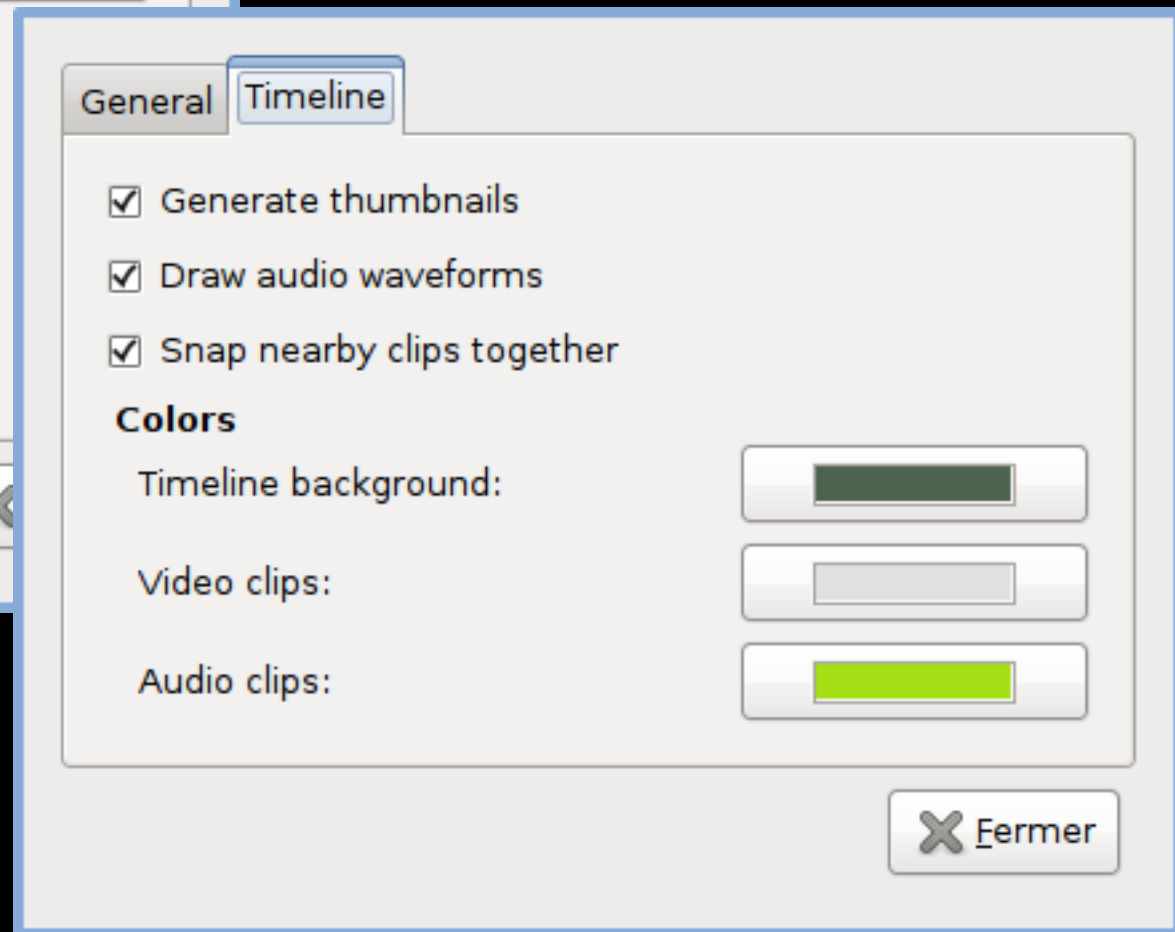
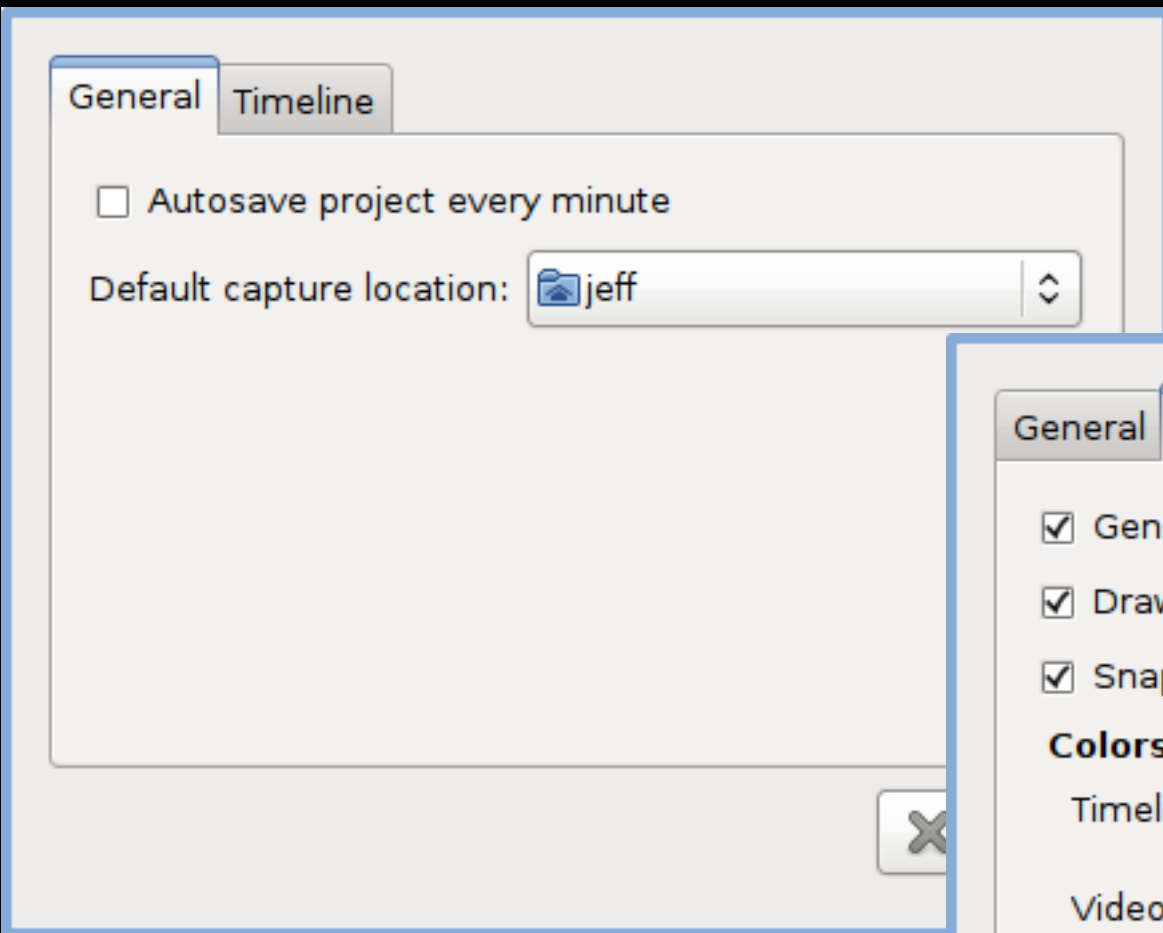
the buttons are going out of the notebook bounds?

 Ajouter
  Ajouter répertoire
  Enlever

should be a folder icon?

Commencez à travailler sur votre projet, en glissant un clip ici

# Simplicité





## Préférences

Apparence

Comportement

Afficher les formes d'onde (audio):

Réinitialiser

Afficher les vignettes (vidéo):

Réinitialiser

Arrière-plan de séquence (audio):



Réinitialiser

Arrière-plan de séquence (vidéo):



Réinitialiser

Couleur de la sélection:



Réinitialiser

Espace entre vignettes (pixels): 2



Réinitialiser

Police de séquence:

Sans

9

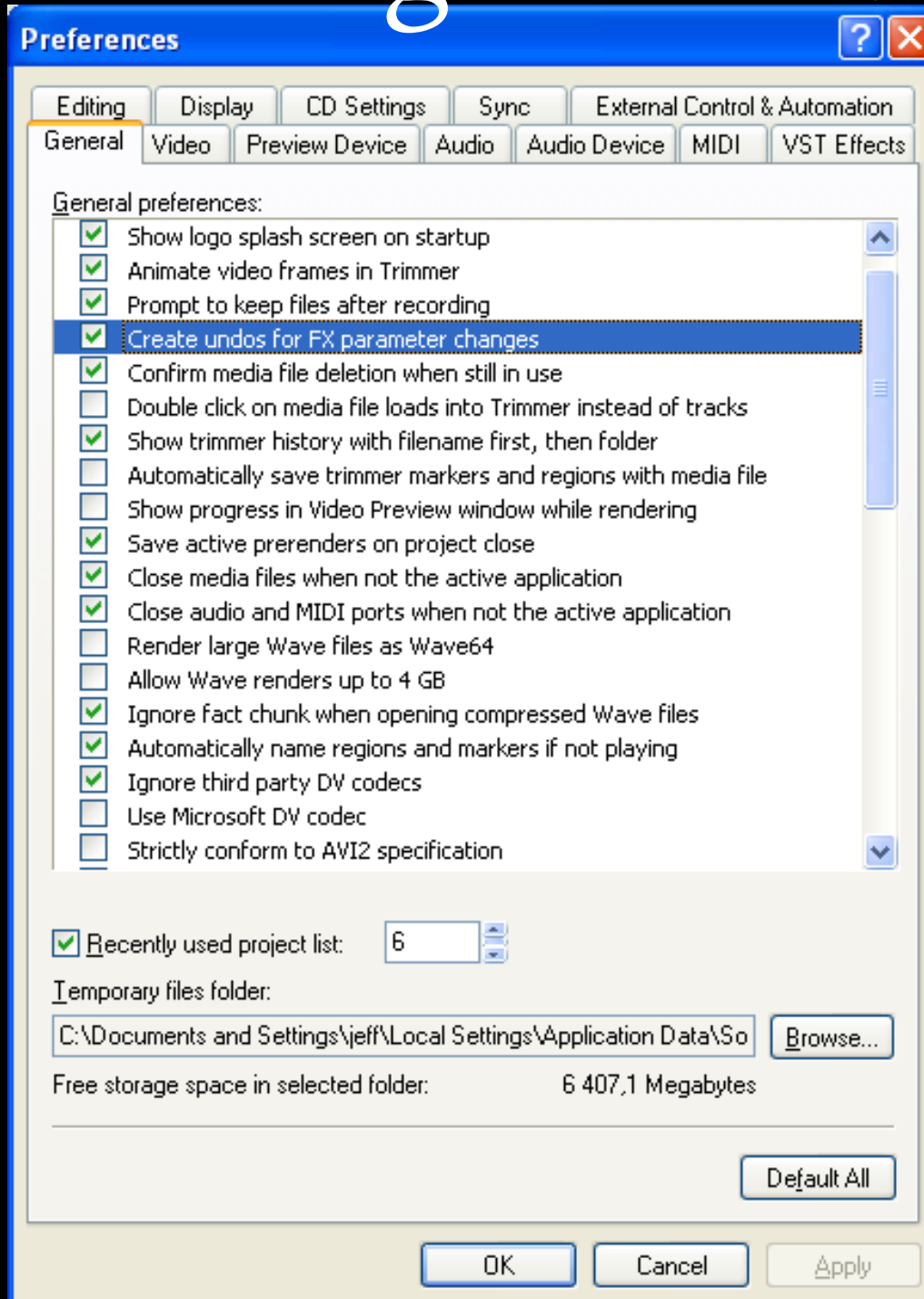
Réinitialiser

Revenir aux réglages d'origine

Annuler

 Fermer

# Vegas: 12 onglets de bordel.



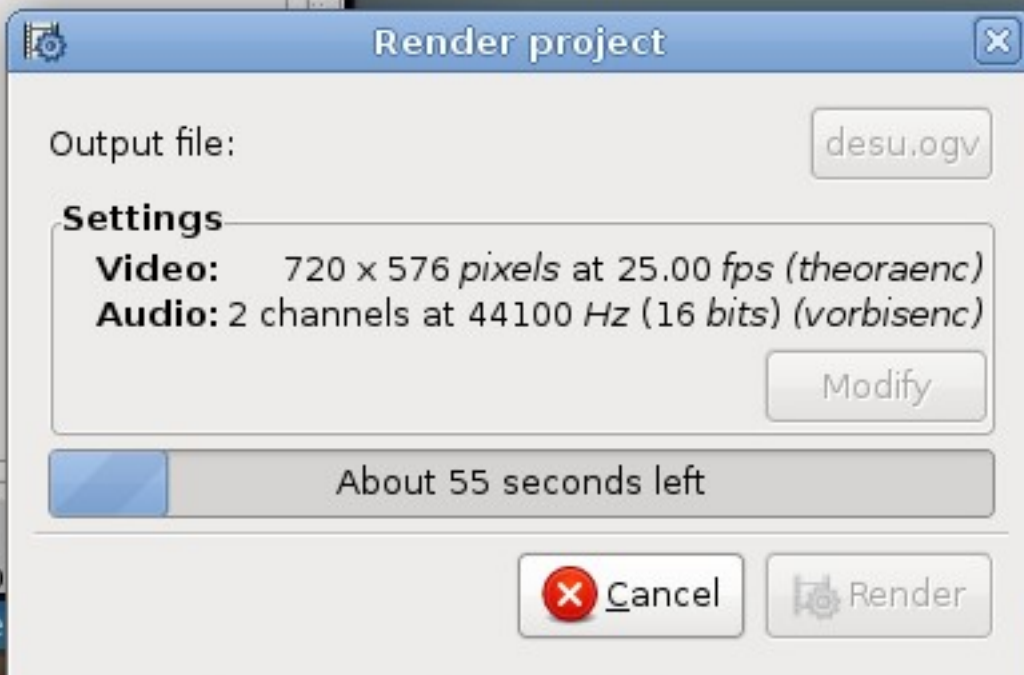
# Pourquoi l'excès d'options

- « Choice is good » (pas toujours)
- Ça fait paraître le logiciel plus complexe, et donc plus « professionnel », et justifie son prix
- Les utilisateurs l'ont demandé (i.e. *Homer Simpson*)
- Problèmes « réglés » de la mauvaise façon





Photo CC by SA NC: Brian Scott <http://www.flickr.com/photos/brianscott/127156608/>

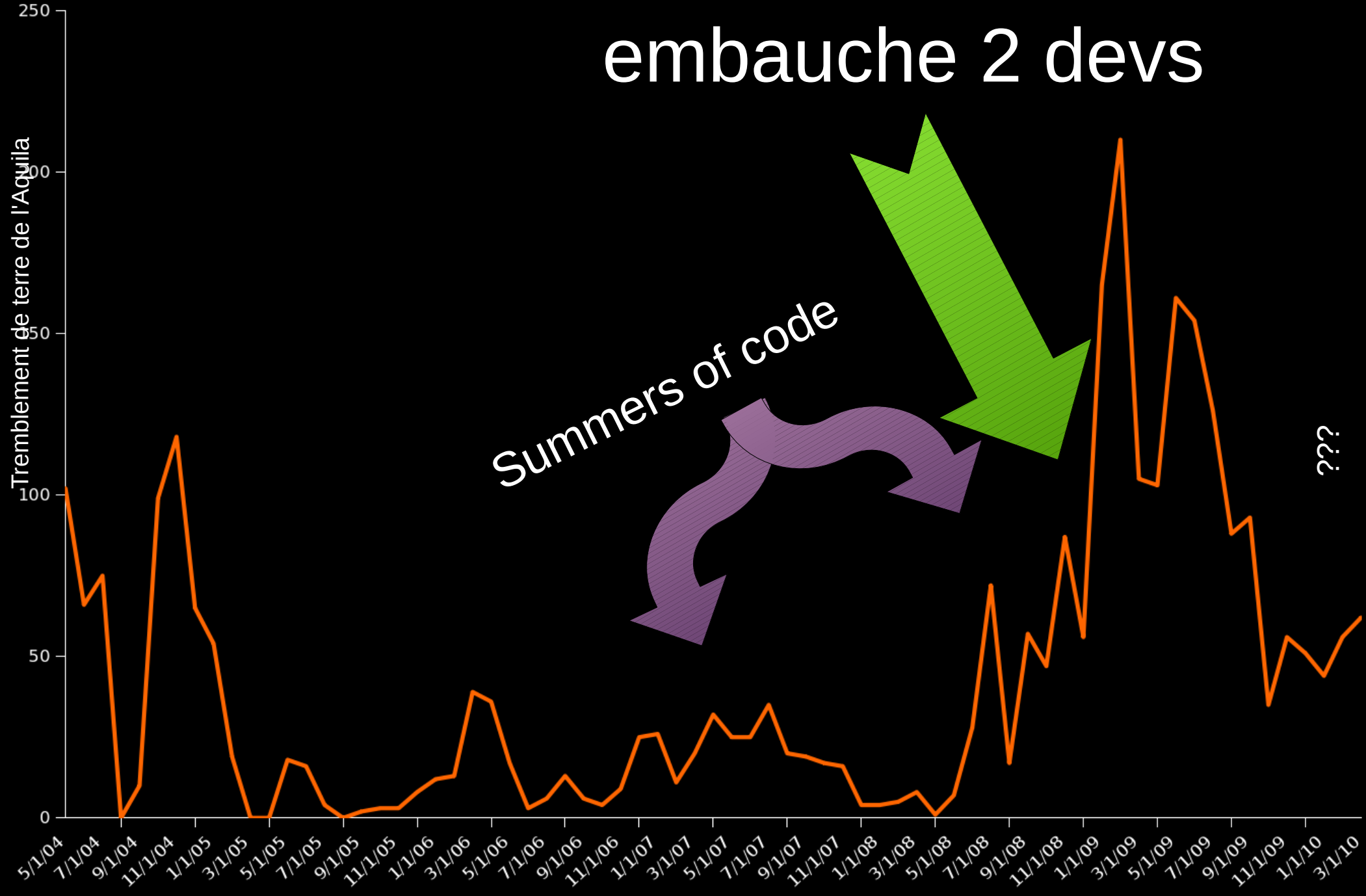




# Financement

- Fluendo (jusqu'en 2007)
- Google Summer of Code (2007, 2008)
- Collabora (depuis décembre 2008)
- Google Summer of Code 2010

# Collabora multimedia embauche 2 devs





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# PiTiVi

## Quick Start Manual

Version 0.13.2

By Jean-François Fortin Tam – last revised September 7, 2009

Pourquoi un logiciel libre?

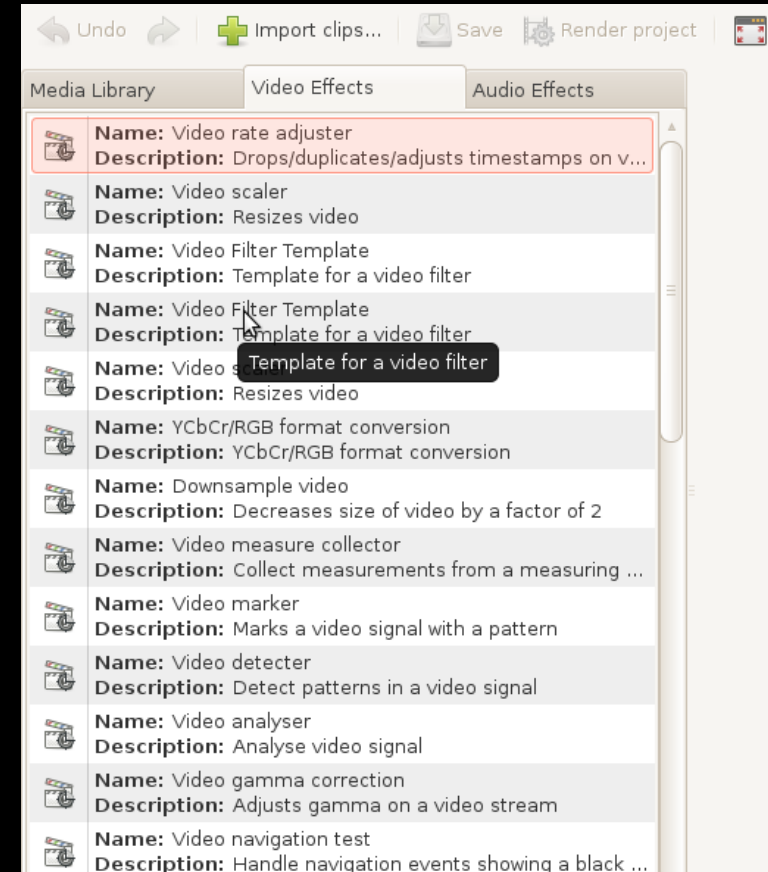
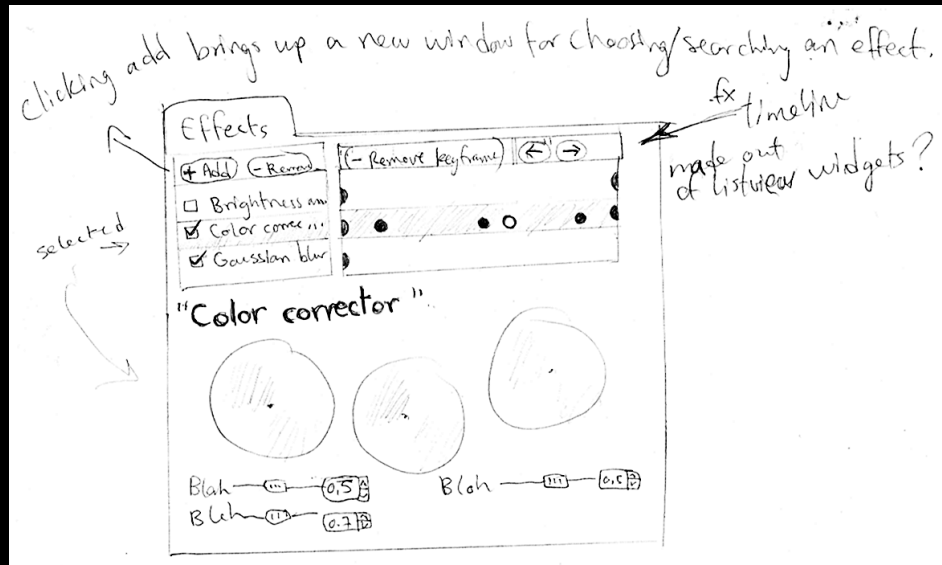
12+ millions





# Prochainement...

- Titres/texte (daf)
- Effets spéciaux (thiblahute)
- Refonte de l'interface de rendu
- Transitions bling bling
- ? (PiTiVi love)



# Nyan~!

- Info, documentation et tout ça: [www.pitivi.org](http://www.pitivi.org)
- Me contacter, blog: <http://jeff.ecchi.ca>
- Mes (vieux) films: <http://studios.ecchi.ca>

