Videoediting with Kdenlive

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openSUSE

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Videoediting, what can we do?

Basic tasks …

- Trim start and end of your footage
- Add title and logo

- Remove pause
- Repair or patch up glitches in the recording
- Effects: fade in, fade out, cross-fade

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Videoediting, what can we do? (2)

Advanced tasks

- Synchronize to music, MTV-style
- Compose multiple layers of video

- Pick best material from repeated recordings
- Forcing a pace or padding up
- Assembling shots into scenes of a storybook

- Animated titles and logos
- "crazy" effekts ...

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Videoediting, what can we do? (3)

… Software-developers have fun

- Yes, it crashes now and then.
  - Kdenlive saves its projects as XML files, which are really robust.

- More features – it is still maturing
  - Kdenlive has advanced another version already..

- Bugs? - reproduce, report upstream, fix them
  - Kdenlive has many "simple" bugs

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Why pick kdenlive?

- Capture (aka Input)
  - dvgrab, bttvgrab, recordmydesktop, krecord, ...

- Editing (aka Processing)
  - kino, broadcast2000, cinelerra, lumiera, jashaka, cinefx, LiVES, kdenlive ...

- Postprocessing (aka Output)
  - mplayer/mencoder, dvdauthor, devede, k3b, ...

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Why pick kdenlive? (2)

This is what the websites say:

kinodv.org *"Easy and reliable DV editing for the Linux desktop"*

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Why pick kdenlive? (2)

This is what the websites say:

kinodv.org *"Easy and reliable DV editing for the Linux desktop"*

Broadcast2000 *"<?php default_page("It's not here anymore. Use <A HREF=\"cinelerra ..."*
cinelerra.org *"Cinelerra is the most advanced non-linear video editor and compositor for Linux."*

Lumiera *"was born as a rewrite of the Cinelerra codebase. It is not usable yet."*

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Why pick kdenlive? (3)

This is what the websites say …:

jahshaka *"The worlds first OpenSource Realtime Editing and Effects System."*

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Why pick kdenlive? (3)

This is what the websites say ...:

jahshaka *"The worlds first OpenSource Realtime Editing and Effects System."* 302 moved → cinefx

Cinefx *"Jahshaka Reinvented, Cineplay Core and is using Jahplayer as its foundation moving ahead. OpenLibraries Reinvented, JPlayer is now CinePlay!"*

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Why pick kdenlive? (4)

This is what the websites say (last but not least) **:**

LiVES.sf.net "*It is designed to be simple to use, yet powerful.   It is small in size, yet it has many advanced features.   ... Is a Free, Open Source video editor *and* a VJ tool.*"

Kdenlive.org "*...is extremely easy to use. ... used by video amateurs as well as advanced users. Usability ... Kdenlive is the most versatile video editor available today ...*"
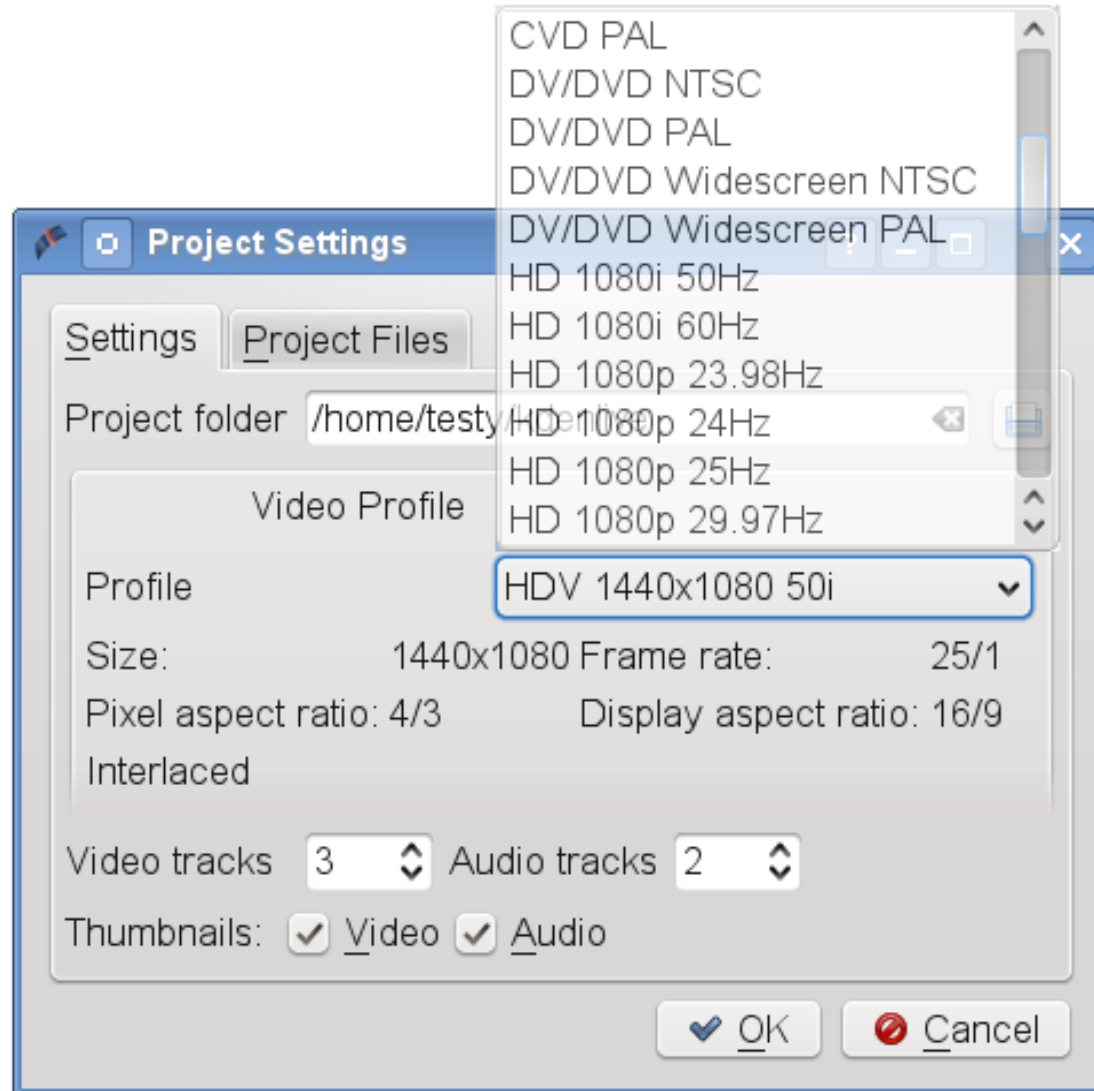
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Anatomy of kdenlive

`Paketname`:   kde4-kdenlive-0.7.6

`Repository`: Packman:main/openSUSE_11.2_Update

`Dependencies`:   ffmpeg, mlt, …

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Anatomy of kdenlive (2)

Start

File　Edit　Project　Tool　Clip　Timeline　Monitor　View　Settings　Help

New　Open　Save　Undo　Redo　Copy　Paste　● Render

Project Tree

Effect List

Project Monitor

Thumbnail	Filename
	pict0002.avi
	1 min. 37 sec. (2)
	pict0001.avi
	10 sec. (1)
	out-7-1440x1040.ogv
	43 sec. (1)

All

- ◀ Gain
- ▦ Gamma
- ▦ Grain
- ▦ Greyscale
- ▦ Invert
- ◀ Limiter
- ▦ Mirror
- ◀ Mono to stereo
- ◀ Mute
- ◀ Normalise
- ▦ Obscure
- ▦ Oldfilm
- ▦ Pan and Zoom
- ◀ Phaser

Adjust size and position of clip
Author: Charles Yates

Project Tree　Effect Stack　Transition

00:00:15:22

00:00:10:00　00:00:20:00　00:00:30:00　00:00:40:00　00:00:50:00

0

pict0002.avi　　pict0002.avi
Dissolve　　ssolve
1　Pan and Zoom
pict0001.avi
Composite

2

out-7-1440x1040.ogv

3

00:00:17:08　hh:mm:ss::ff

Project Tree

Thumbnail	Filename
	pict0002.avi 1 min. 37 sec. (2)
	pict0001.avi 10 sec. (1)
	out-7-1440x1040.ogv 43 sec. (1)

00:00:15:22

00:00:40:00   00:00:50:00
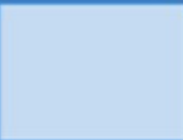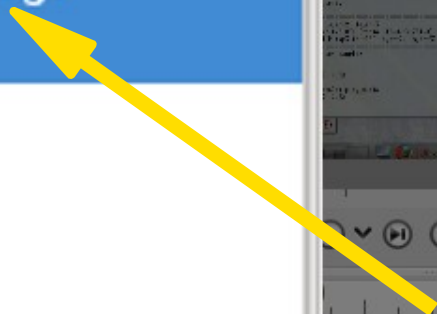
List of all your audio- and video- footage, titles, still images, background(music)
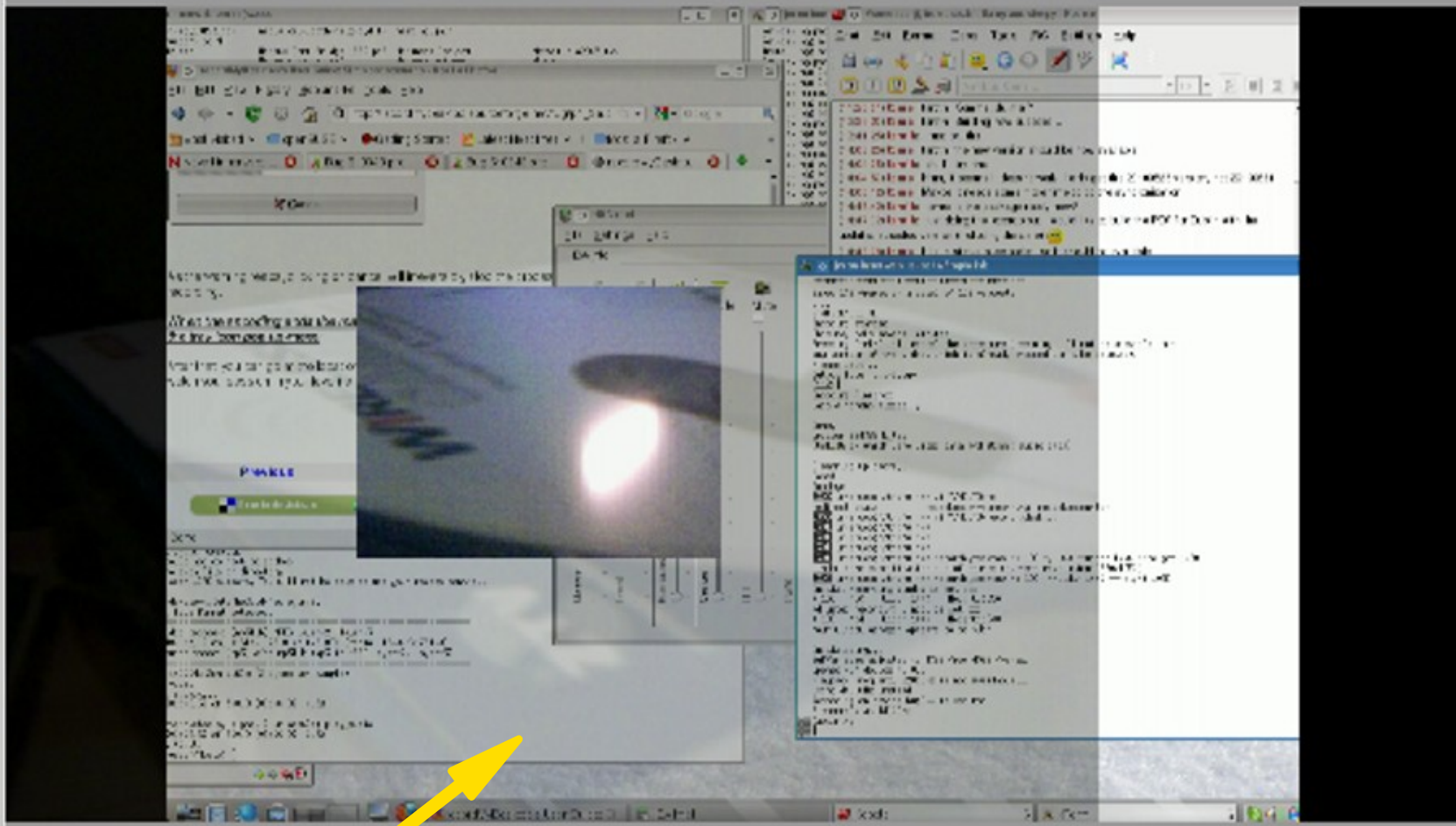
preview-monitor, video-player

Untitled / HDV 1440x1080 50i [modified] — Kdenlive

File Edit Project Tool Clip Timeline Monitor View Settings Help
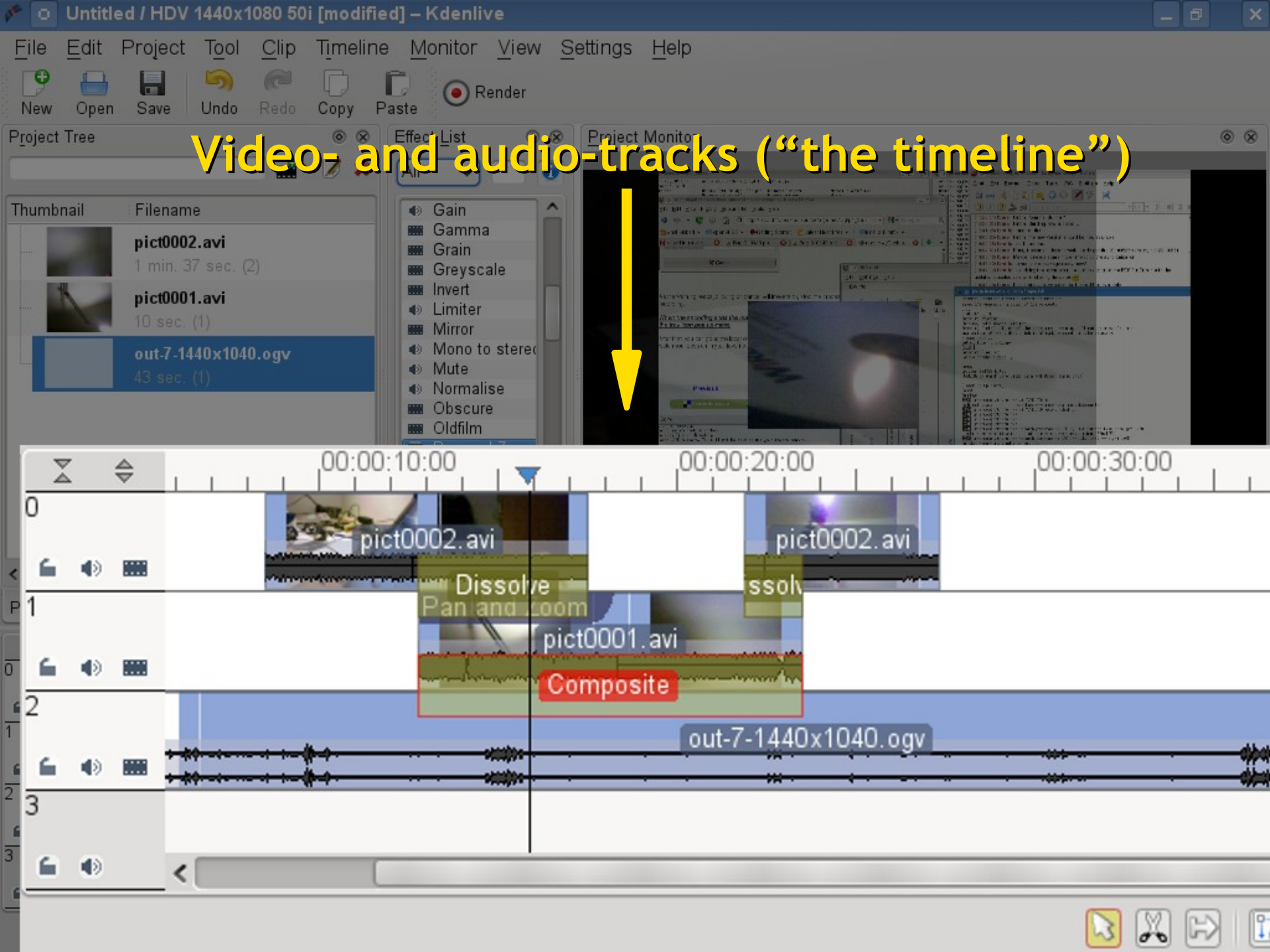
New Open Save Undo Redo Copy Paste ● Render

Project Tree

Thumbnail	Filename
	pict0002.avi 1 min. 37 sec. (2)
	pict0001.avi 10 sec. (1)
	out-7-1440x1040.ogv 43 sec. (1)

Project Tree Effect Stack Transition

Effect List

All

- 🔊 Gain
- ▦ Gamma
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Adjust size and position of clip
Author: Charles Yates

Project Monitor

00:00:15:22

Timeline

00:00:10:00   00:00:20:00   00:00:30:00   00:00:40:00   00:00:50:00

0
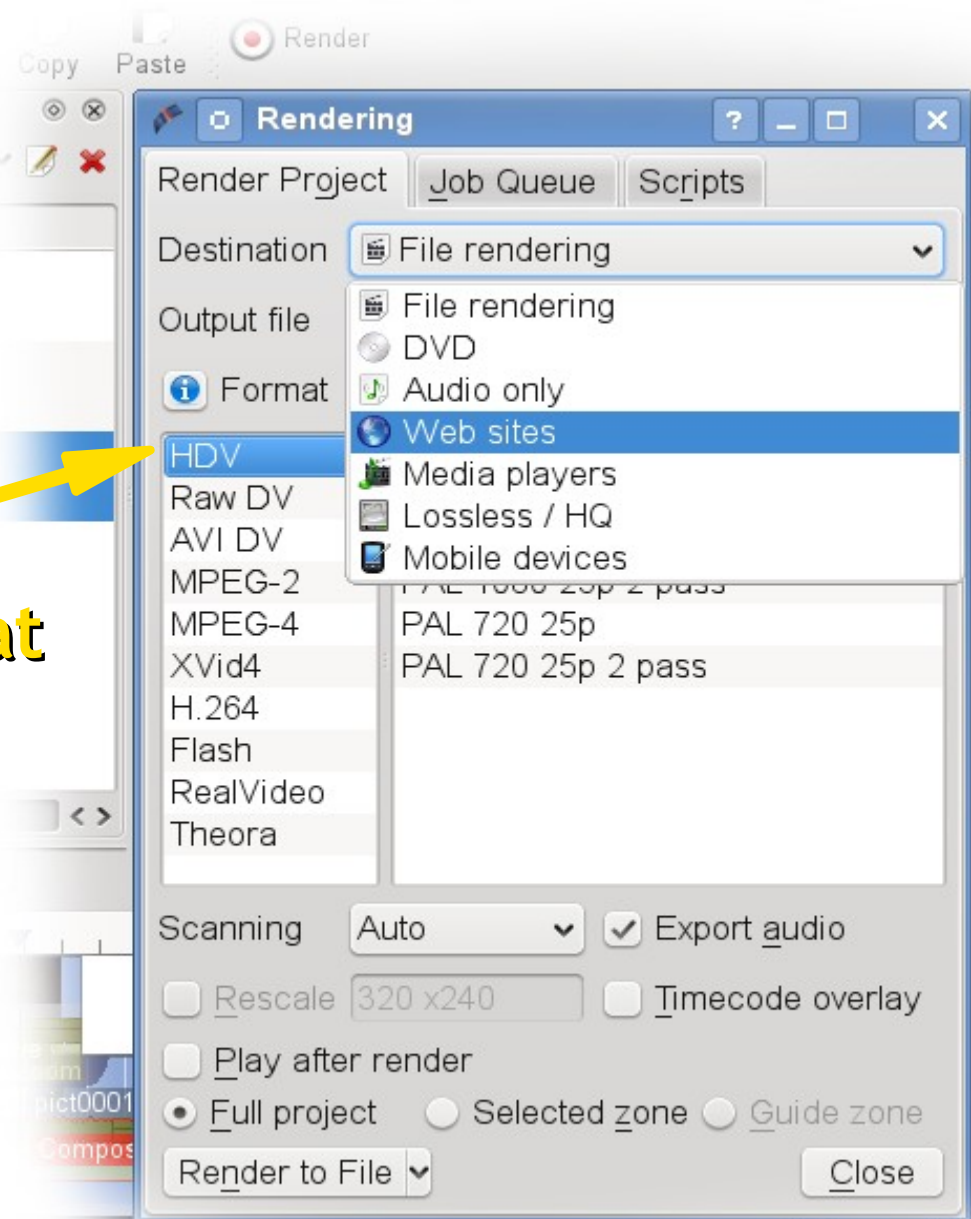pict0002.avi   pict0002.avi
Dissolve   ssolv
1
Pan and Zoom
pict0001.avi
Composite
2
out-7-1440x1040.ogv
3

00:00:17:08   hh:mm:ss::ff

Anatomy of kdenlive ...

Output format (Rendering)

Render

Copy   Paste

Rendering

Render Project | Job Queue | Scripts

Destination | File rendering ▾

Output file

ⓘ Format

File rendering	
DVD	
Audio only	
Web sites	
Media players	
Lossless / HQ	
Mobile devices	

HDV
Raw DV
AVI DV
MPEG-2
MPEG-4
XVid4
H.264
Flash
RealVideo
Theora

PAL 720 25p
PAL 720 25p 2 pass

Scanning | Auto ▾ | ✓ Export audio

☐ Rescale 320 x240 | ☐ Timecode overlay

☐ Play after render

● Full project   ○ Selected zone   ○ Guide zone

Render to File ▾ | Close

Live demo
(optionally including a crash?)

An example projekt

"Approaching HackWeek"

- Screening. Browse videos and other material
  - Google Maps, Hackweek Website
  - Series of images taken while cycling
  - Video footage, climing the staircase, seeing the poster in the hall
  - Some background music
- Select "interesting" clips
- Write titles
- Add a logo

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List of bugs found

- If audio starts later, it gets moved while exporting
- Exported mpeg once had bad frames after 10min
- Composite effects do not scale quite right
- Vignette effect has almost unusable gui
- ...

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Have fun!

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