

movie makin' with Linux!

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Aug 2006

# general process

- get appropriate hardware (camera, disk, RAM)
- get familiar with your tools (practice)
- write your script
- do your filming
- transfer the movie to disk
- edit the movie
- plan your DVD
- write DVD

# editing tools

- ***kino*** – probably the easiest
- ***cinelerra*** – a bit more serious
- ***mainactor*** – even more serious

# tools

- ***kino*** – non-linear editor, export avi to mpeg
- ***dvgrab*** - Grab DV video and audio data via IEEE1394 links
- ***dvdauthor*** - assembles multiple mpeg program streams into a suitable DVD filesystem
- ***dvdstyler*** – DVD authoring
- ***mplayer*** – verify DVD ready files
- ***growisofs*** – write the DVD

# environment

- Fedora Core 4 laptop
- firewire camera interface

# installation

- kino 0.9 downloaded and built
- yum install libsamplerate-devel
- yum install libpostproc
- yum install transcode
- yum install mjpegtools
- yum install dvdauthor

# movie making

- ***modprobe raw1394***
  - load video camera interface driver (firewire device /dev/raw1394)
- ***chmod 0666 /dev/raw1394***

# movie making

- ***dvgrab test2***

- read video from camera into file “test2001.avi”, look out for dropped frames (leave system alone while it is capturing video), you may be able to capture directly via kino (and control the camera), 1-minute might be 279mb

- ***mplayer test2001.avi***

- verify the captured video

# movie making

- ***kino***
  - import movie (edit->file->open)
  - (note that scenes should be autodetected)
- edit scenes, add transitions, ...
- add titles with
  - kino -> fx -> video filter -> titler
  - note that you can animate titles
  - click ***render*** to add titles to video

# movie making

- ***kino***
- render when titles ready
- export movie as mpeg

# movie making

- plan dvd (generate dvd.xml)

```
<dvdauthor>
  <vmgm />
  <titleset>
    <titles>
      <pgc>
        <vob file="ian1.mpeg" />
      </pgc>
    </titles>
  </titleset>
</dvdauthor>
```

# movie making

- ***dvdauthor -o dvd -x dvd.xml***
  - assembles multiple mpeg program streams into a suitable DVD filesystem
- ***mplayer dvd:// -dvd-device ./dvd***
  - verify the video is ready
- ***growisofs -dvd-compatible -Z /dev/scd0 -dvd-video ./dvd/.***
  - write to dvd

# movie making

- ***dvdstyler*** – an interactive alternative to dvdauthor, drag and drop mpeg-2 files, backgrounds and buttons to author your dvd

# tips

- leave some leader at the start of scenes
- have a lot of disk space
- expect reliability issues, keep backups at good points to save so you do not lose a lot of work

# links (video related)

- <http://www.kinodv.org/>
- <http://cinelerra.org/>
- <http://www.mainconcept.com>
- <http://dvdstyler.sourceforge.net/>

# links (desktop capture)

- wink - <http://www.debugmode.com>
  - freeware, annotate, save to flash, very capable, improved in the 2-weeks I was working on this presentation (crashing stopped on render)
- vnc -  
<http://wolphination.com/linux/2006/06/30/how-to-record-videos-of-your-desktop/>