





Software Freedom Day

The silent revolution is over:

Free software is mainstream

**The Silent Revolution is over -
Free Software has changed the world:**

Government institutions that decided to adopt Free Software:

2001 - Kerala, India

2003 - German City of Munich

2004 - Venezuela, Malaysia

2005 - Peru , Commonwealth of Massachusetts adopts the OpenDocument standard for all institutions in the commonwealth

2006 - Brazil (subsidized the distribution of Open Source to its communities), Ecuador (moved its public sector to Open Source)

Government institutions that decided to adopt Free Software:

**2009 - The White House moved its web site to a Linux server,
French Jandarmerie (police department) announced a switch to Open
Source and Linux by 2015**

2010 - Jordan

Adoption of Free Software in the industry:

Google

IBM

London Stock Exchange

Gov. Of Mexico City

Oracle

Adoption of Free Software in the industry:

Toyota, USA

Tommy Hilfiger

Travelocity

US. Federal Courts

US. Army

Adoption of Free Software in the industry:

US. Postal Service

US. Department of Defense

US. Marine submarine fleet

Wall Street

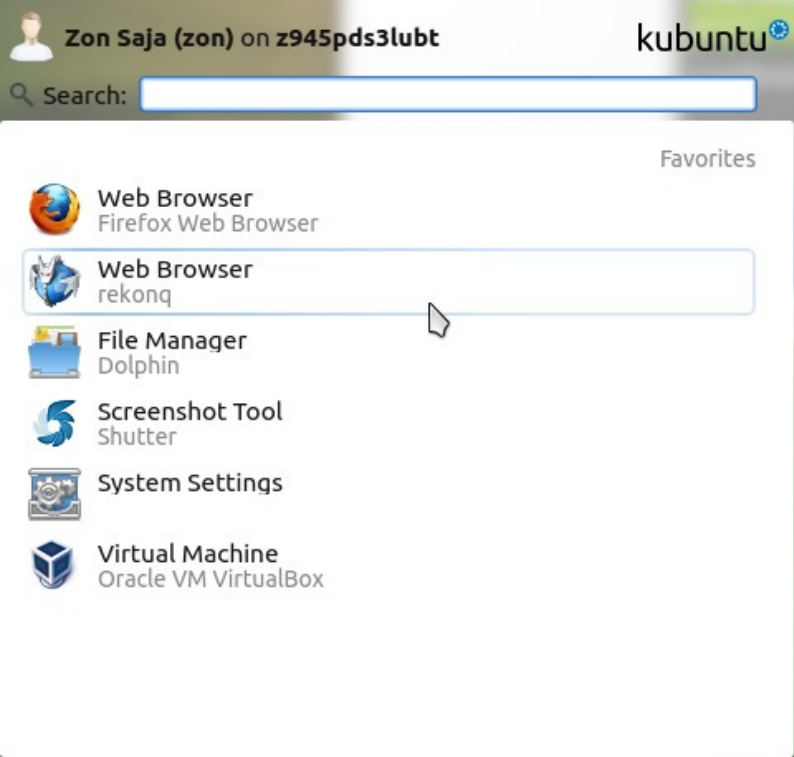
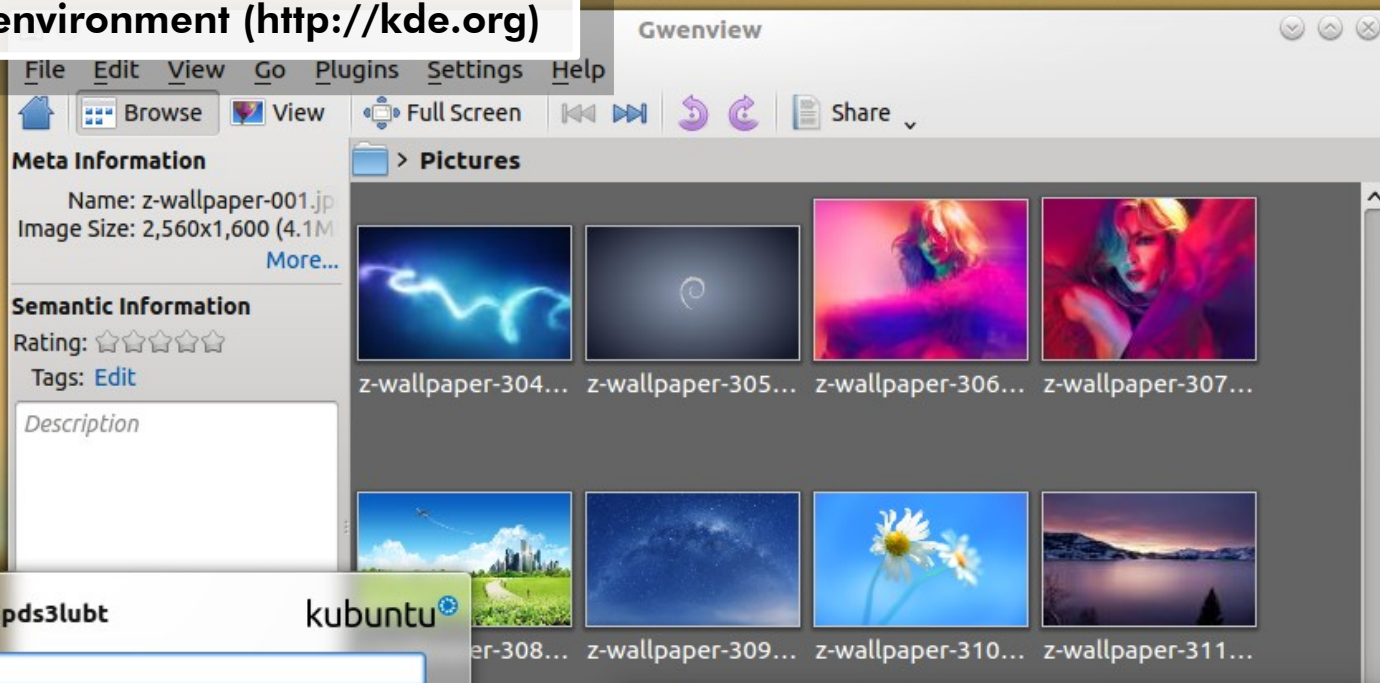
The challenges in using Free Software:

Ease of use

Competence

KDE desktop environment (<http://kde.org>)

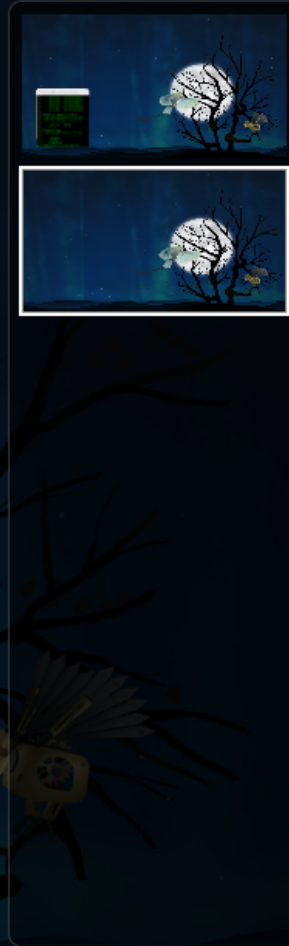
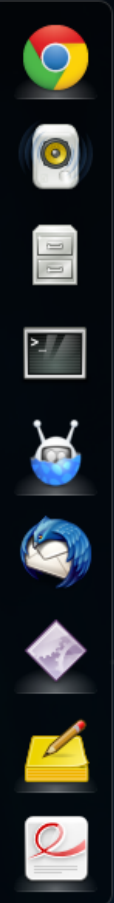
Desktop



Windows

Applications

Type to search...





Search

Advanced

CPU Features

GNU TLS

Logging

Network Sync

Audio

Filters

Output modules

Speex resampler

SRC resampler

Visualizations

Input / Codecs

Access modules

Audio codecs

Demuxers

Stream filters

Subtitles codecs

Video codecs

Interface

Control interfaces

Hotkeys settings

Main interfaces

Playlist

Services discovery

Stream output

Access output

Mixers

Show settings

Simple

Advanced

Advanced settings

Advanced settings. Use with care...

Special modules

Memory copy module

VoD server module

Plugins

☒ Use a plugins cache

Data search path

Browse...

Performance options

☐ Allow real-time priority

Adjust VLC priority

☒ Inhibit the power management daemon during playback

☐ Allow only one running instance

☒ One instance when started from file

☐ Enqueue items to playlist when in one instance mode

Reset Preferences

Cancel

Save

Play

Previous

Stop

Next

Full screen

Repeat

Shuffle

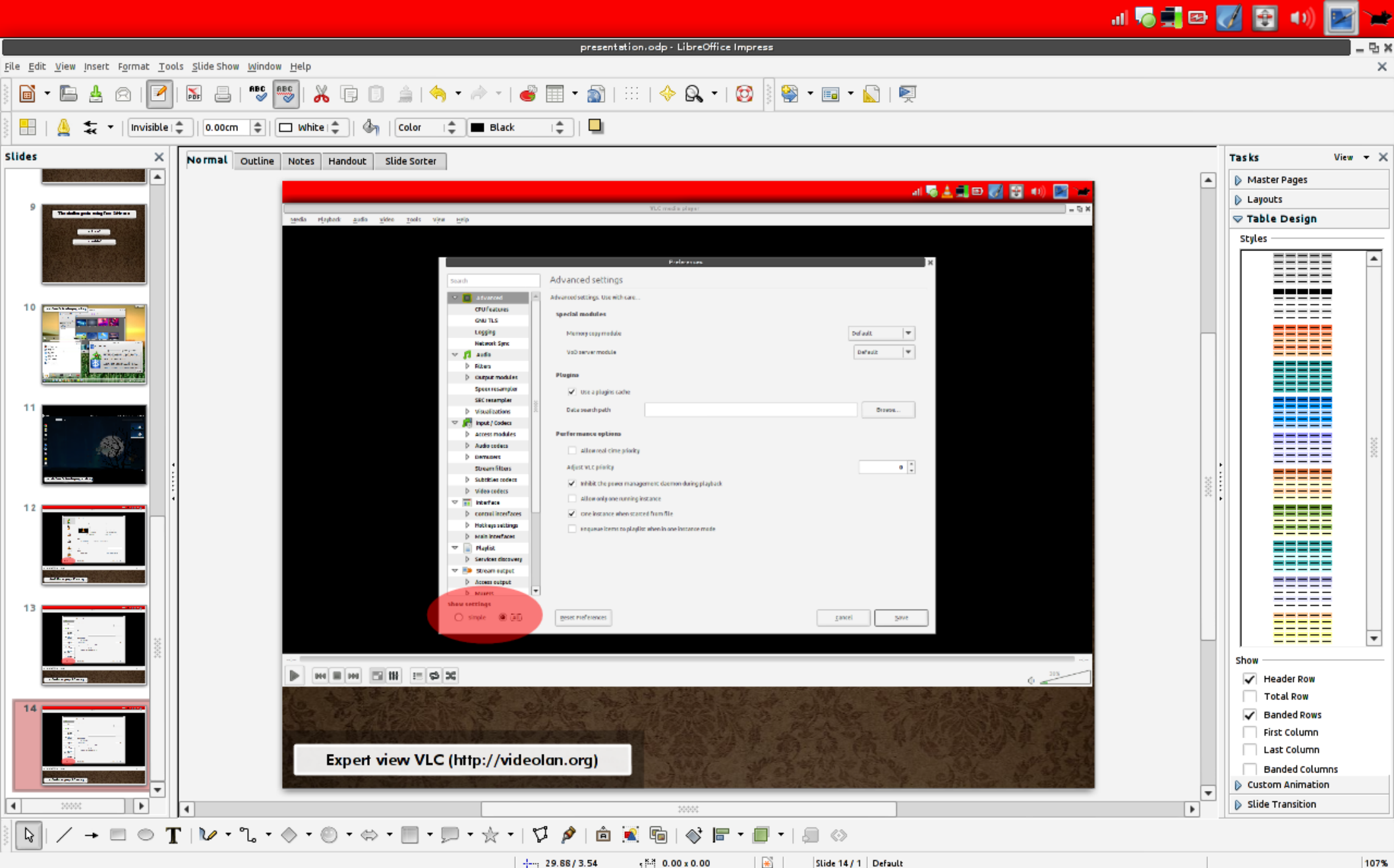
Equalizer

playlist

playlist

playlist

30%





FLUXBOX	APPLICATIONS		
Applications	Accessibility		
Games	Data Management		
Help	Editors		
Window Managers	File Management		
Configuration	Graphics		
Styles	Network	Network	
Workspaces	Office	Communication	
Reconfigure	Programming	File Transfer	Web Browsing
Restart	Science	Web Browsing	Firefox Browser
Exit	Shells		
	Sound		
	System		
	Terminal Emulators		
	Text		
	Video		
	Viewers		

22:43

May 11, 2011
Wednesday

CPU 2%
RAM 81.0MiB

```
stefan@IBMthinkpad:~$ scrot -d 10 -c
Taking shot in 10.. 9.. 8.. 7.. 6.. 5.. 4..
. 3.. 2.. 1.. █
```



Competence of Free Software:

Is Free Software finally good enough?

Competence of Free Software:

Office

MS Office

Desktop Publishing

Adobe InDesign

Graphic Design

Adobe Illustrator

Video/Sound Production

ProTools

Photography

Adobe Photoshop, Lightroom

Competence of Free Software:

Office

Libre Office

Desktop Publishing

Scribus

Graphic Design

Inkscape

Video/Sound Production

Cinelerra/Ardour, Audacity

Photography

The Gimp, RAW Therapee



Fill and Stroke (Shift+Ctrl+F)

☒ Fill ☐ Stroke paint ☒ Stroke style

x ?

Flat color

RGB HSL CMYK Wheel CMS

R 255

G 232

B 212

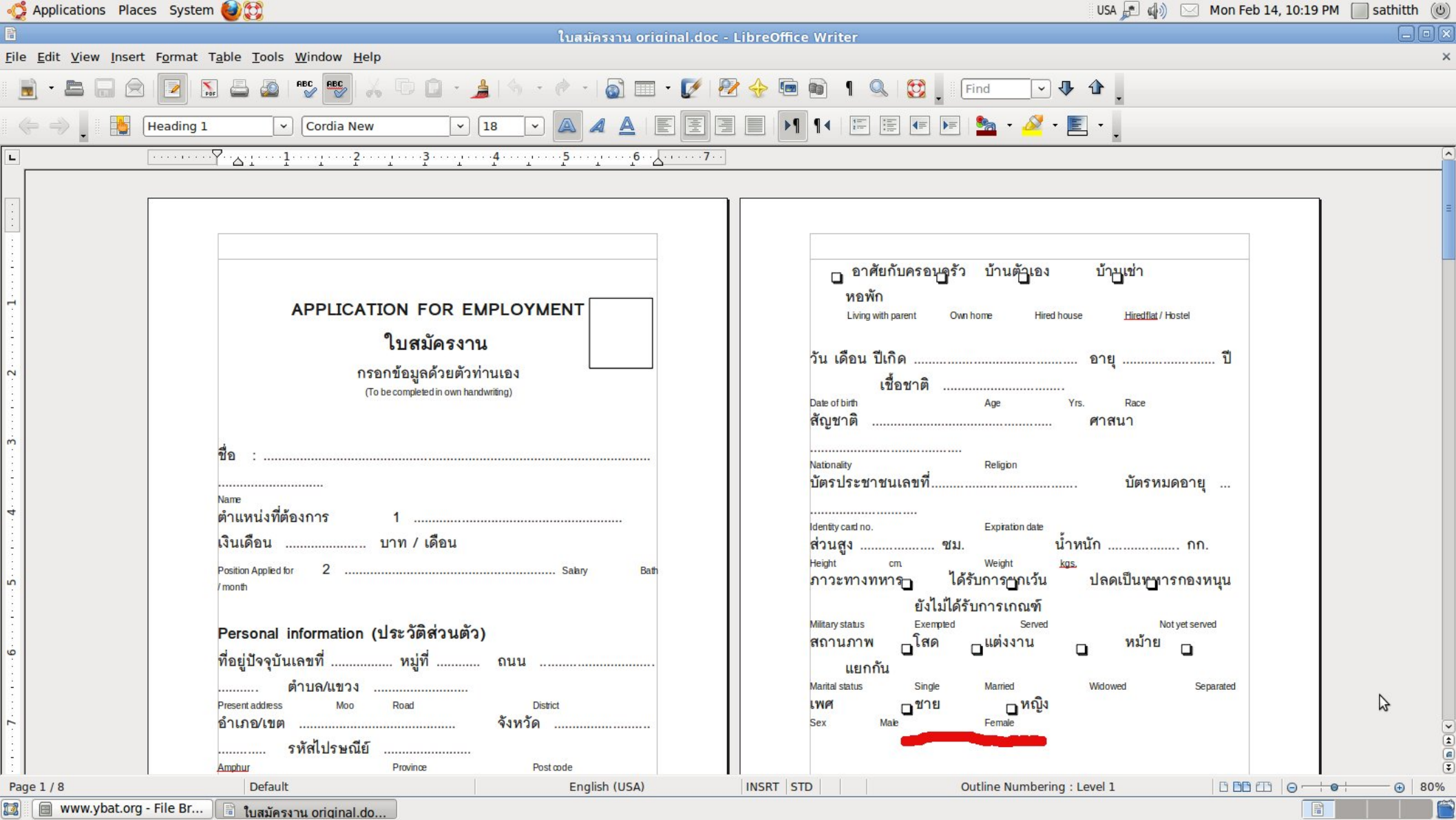
A 255

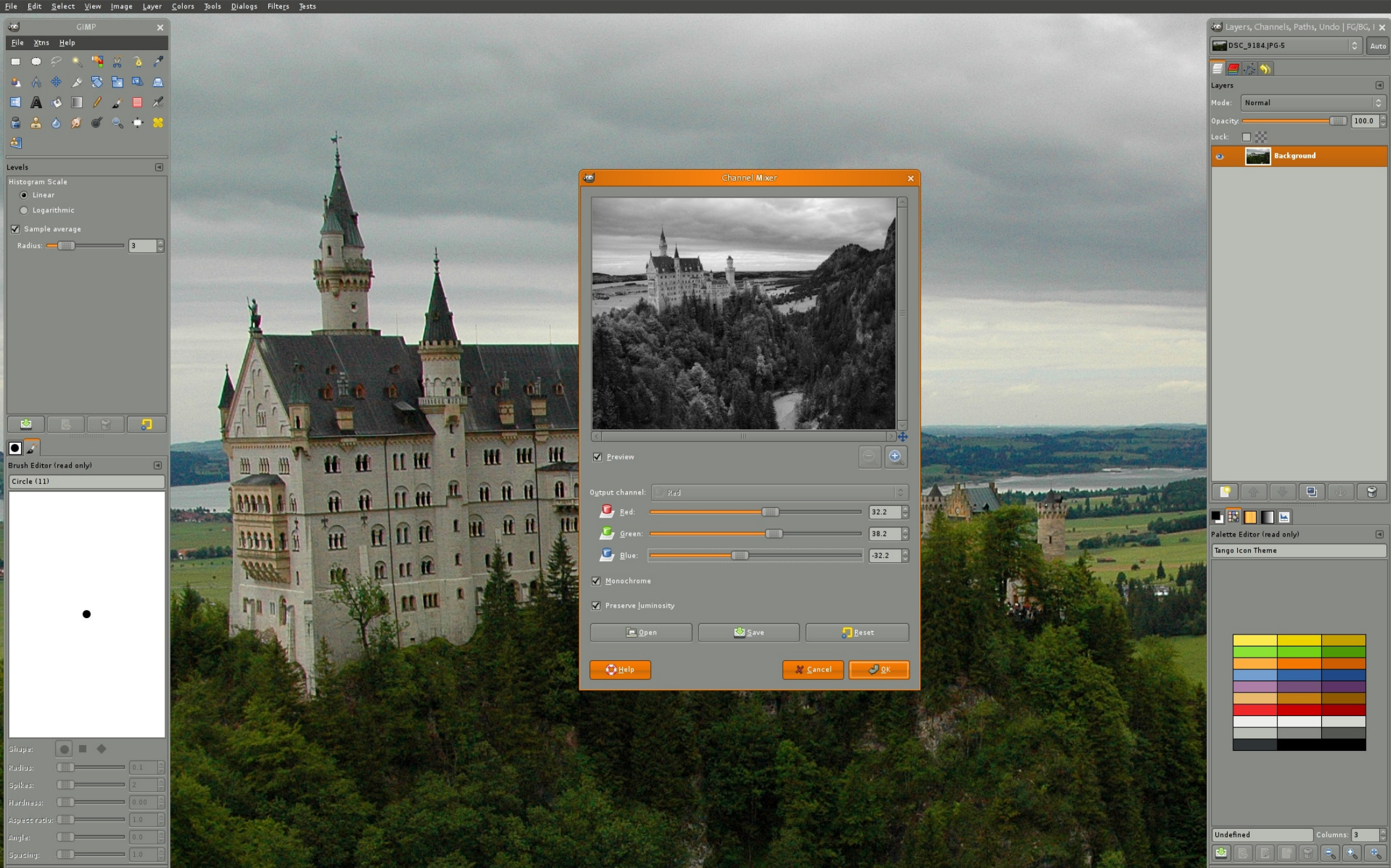
RGBA: ffe8d4ff

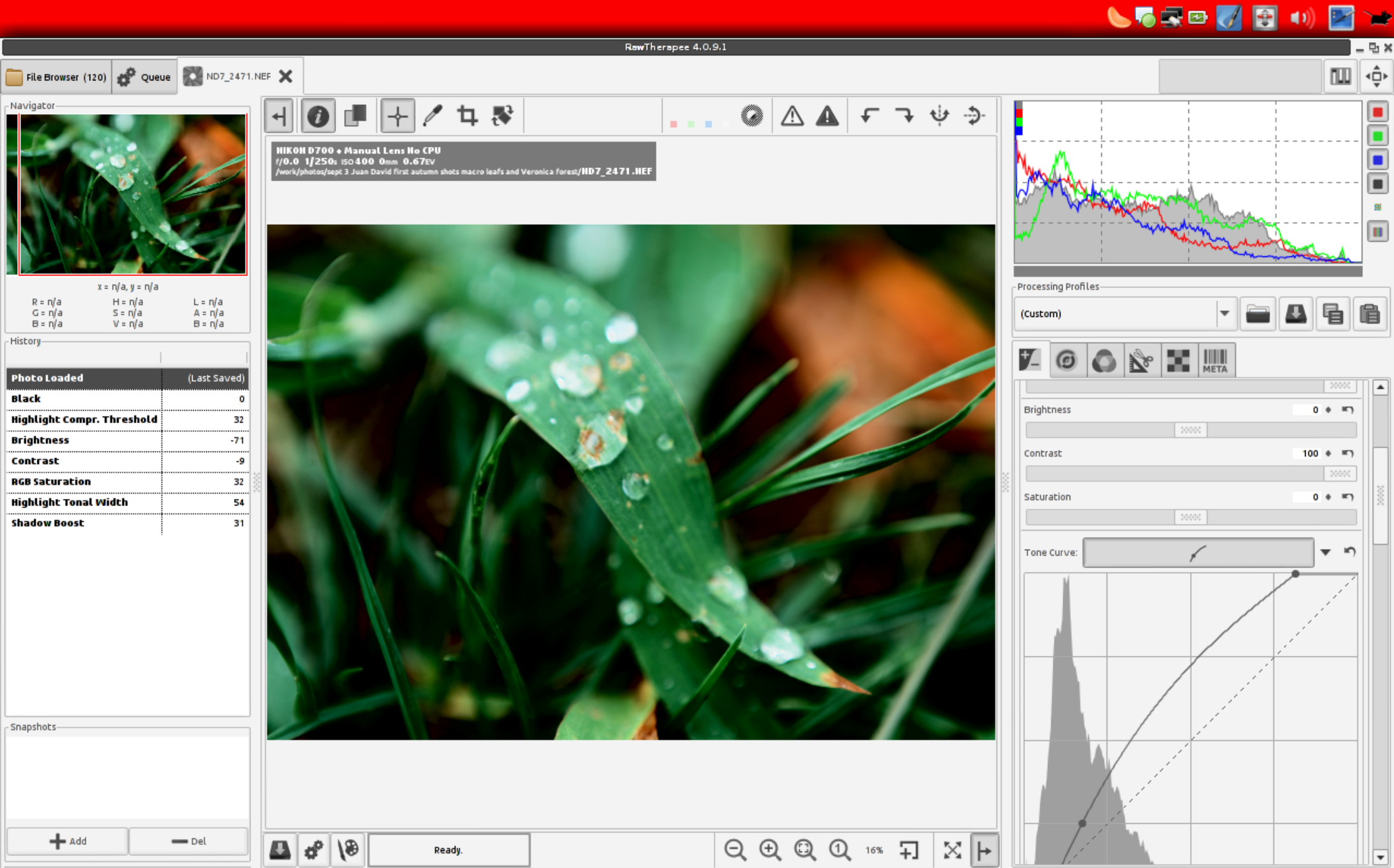
Blur: 0.0

Opacity, % 100.0









***mosdef - Ardour**

stop % sprung 00:00:02:24 30 NDF 001 |04|1453 414 80.00 Internal Time master Punch In Auto Play Auto In Punch Out Auto Return Click

Slide Edit 00:00:03:14 No Grid Bars Playhead 001 |01|0000

Audio 5 Input record (X-ISM) Mins:Secs 00:00:00.00 Timecode 00:00:00.00 Samples 0 48000 96000 144000 Bars:Beats 1 2 Meter 4/4 Tempo 80.00 Range Markers Loop/Punch Ranges Location Markers stark3 Punch Loop

master m s v h a g

Audio 2 m s v h a p g

Audio 3 m s v h a p g

gain Write clear h

Audio 4 m s v h a p g

01|01|686

*Pulsing Logo Accent 01

*Pulsing Logo Accent 01.9

Audio 5 m s v h a p g

Audio 6 m s v h a p g

link M Output comments

Left

Ardour - Audio 4: Enigma (s) (by Waves)

Undo Setup A* A->B Load Save ? WAVES

Notches Depth

1 2 3 4 5 6

+1/2

Stereo 50

Feedback

Decay Time

on/off Freq xFactor on/off Freq xFactor

207 0.10 1600 0.10

Gain 0.0

Mix

Ardour - Audio 4: TrueVerb (s) (by Waves)

Undo Setup A A->B Load Save ? WAVES

Decorrelation EVar: 0 RVar: 0

10 20 30 40 (meters)

Time response

20 40 60 80 100 120 140 160 180 (ms)

Dimension RoomSize Distance Balance DecayTime PreDelay Density

3.00 5516 10.02 3.0 1.2 88.9 0.850

ER Lowcut 16 RevShelf -3.0 ERAbsorb -6.0 Freq 4095 InputGain 0.0 Output No clip

511 1.37x -Reverb Damping 0.40x 7104 OUTPUT 0

Ardour - Audio 4: AUParametricEQ (by Apple)

Audio Unit: AUParametricEQ Manufacturer: Apple

center frequency: 20.00 24000 2000 Hz

Q: 1.00 20.00 10.00

gain: -20.00 20.00 0.00 dB

62 250

TrueVerb

Audio 1

X-ISM

DIG 23

ANA 16 15 8 7 0

Inter-sampling Meter

Solid State Logic

SOUND || VISION

Audio 21

Audio 22

Audio 23

Audio 24

Audio 25

Audio 26

Audio 27

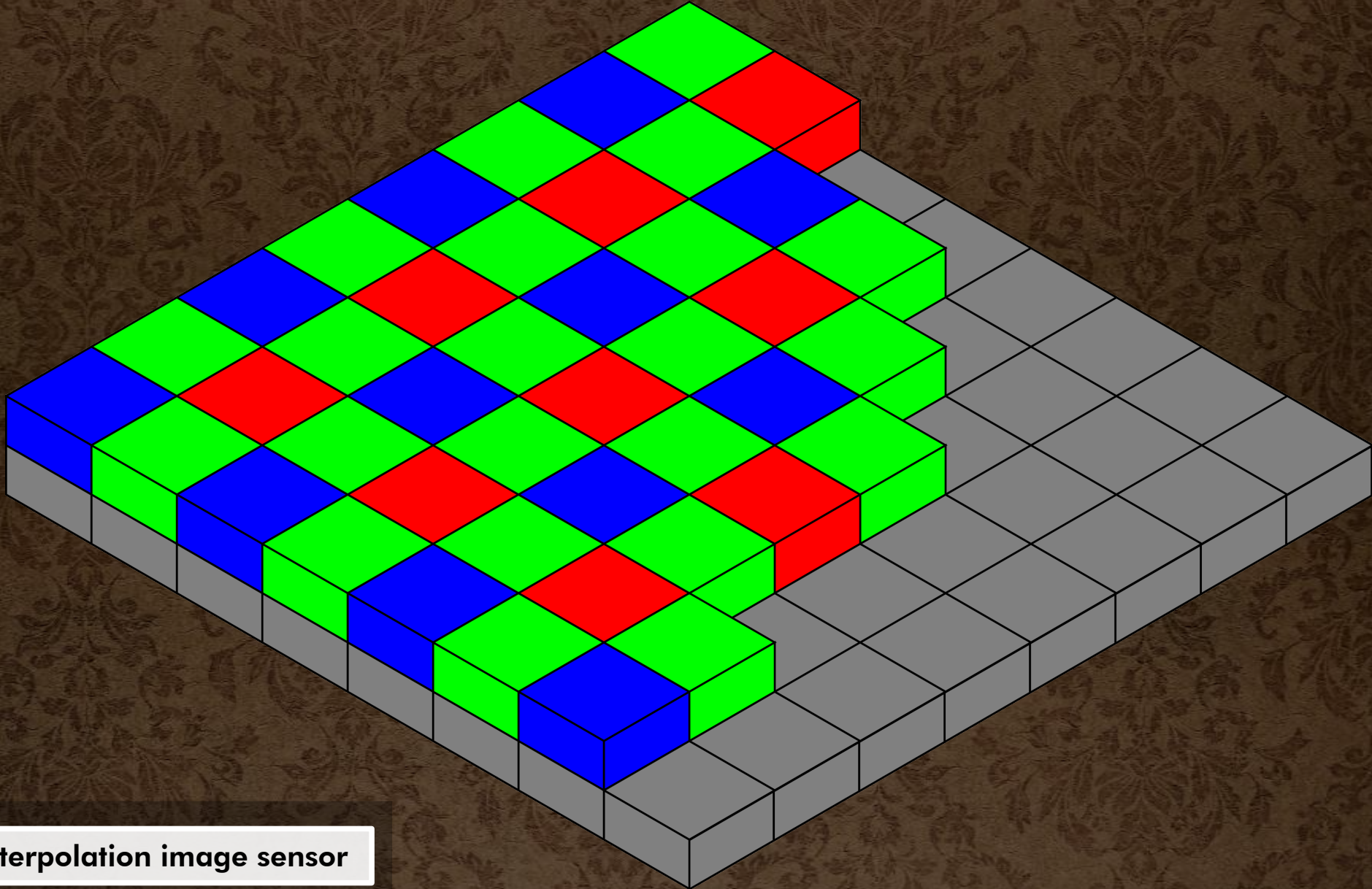
Audio 28

Audio 29

[WARNING]: AUPlugin: output_streams() called without any format set!

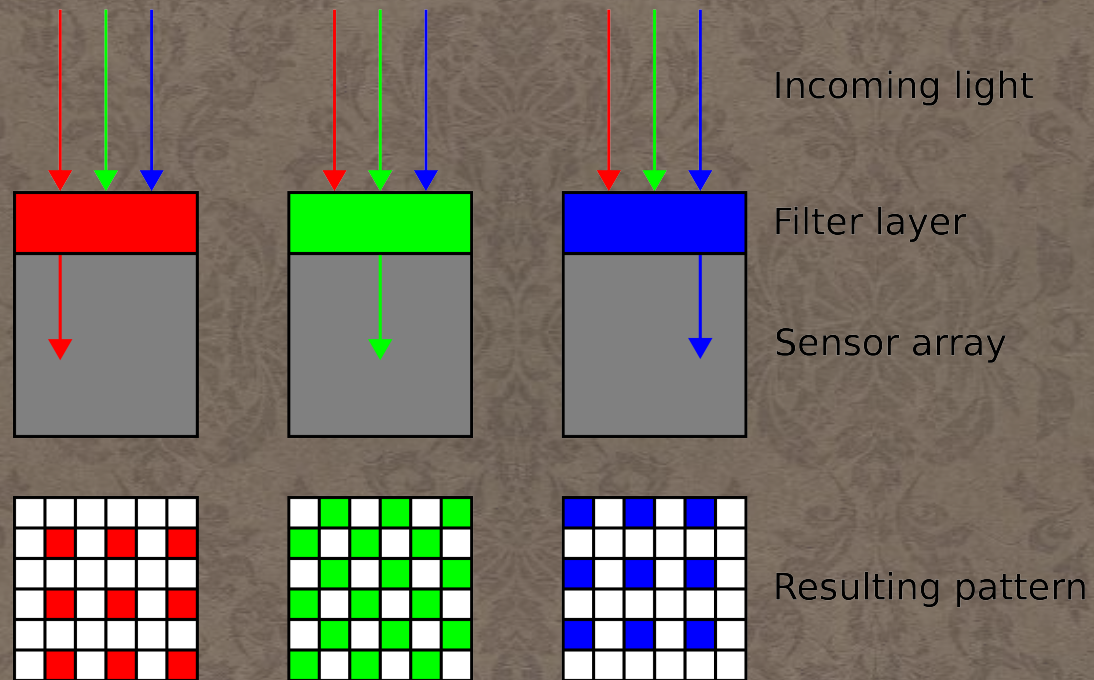
Errors 48 kHz / 21.3 ms Buffers p:100% c:100% DSP: 2.4% Disk: 00h:00m:00s

RAW Photography:



Bayer Interpolation image sensor

RAW Photography:



Bayer Interpolation image sensor – 3 types of pixels

RAW Photography:

Light hits the sensor

Each pixel detects the specific colour information

Demosaicing is applied

White Balance, Contrast, etc are applied

Image is saved as a JPG

Bayer Interpolation image sensor – image processing

RAW Photography:

Light hits the sensor

Each pixel detects the specific colour information

Saving the RAW data in a file

Processing on a computer

Bayer Interpolation image sensor – shooting RAW

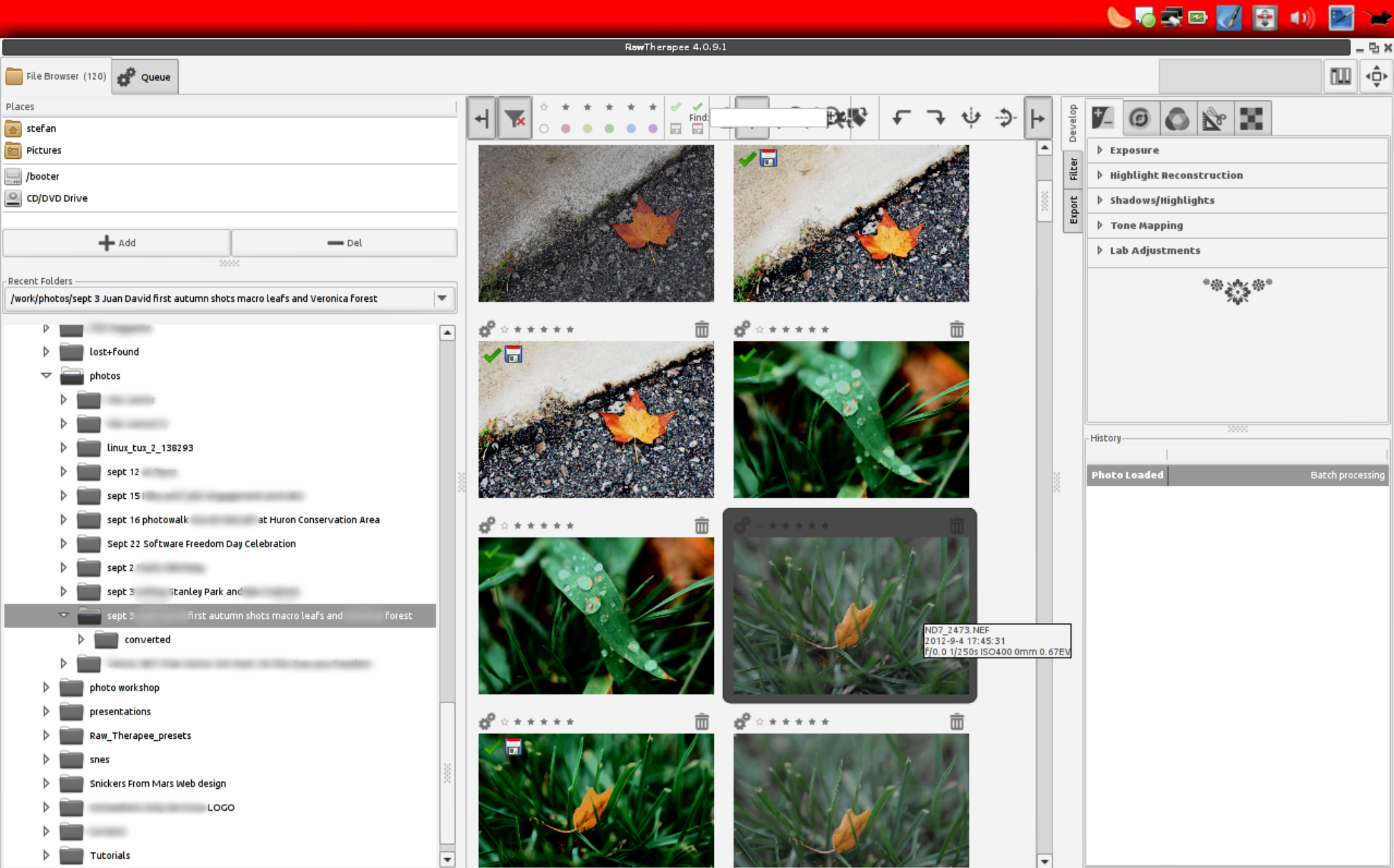
Advantages to RAW Photography:

Unlimited editing scenarios*

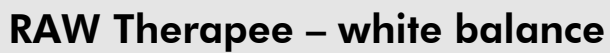
Variable White Balance

Multiple Demosaicing algorithms

All the data!



RAW Therapee – browsing files



RawTherapee 4.0.9.1

File Browser (120) Queue ND7_2473.NEF

Navigator

$x = n/a, y = n/a$

R = n/a H = n/a L = n/a
G = n/a S = n/a A = n/a
B = n/a V = n/a B = n/a

History

Photo Loaded	stefan1
White Balance Method	Daylight (sunny)
Contrast	77
Color Temperature	3684

Snapshots

+ Add - Del

HIKOH D700 • Manual Lens No CPU
1/0.0 1/250s ISO 400 0mm 0.67EV
/work/photos/sept 3 Juan David first autumn shots macro leafs and Veronica forest/ND7_2473.NEF

Ready.

12%

Processing Profiles:
(Custom)

White Balance

Method Custom

Spot WB Size: 8

Temperature 3685

Tint 1.000

Vibrance

Channel Mixer

Red channel:

Green channel:

Blue channel:

RAW Therapee – white balance

RawTherapee 4.0.9.1

File Browser (120) Queue ND7_2473.NEF

Navigator

$x = n/a, y = n/a$

R = n/a H = n/a L = n/a
G = n/a S = n/a A = n/a
B = n/a V = n/a B = n/a

History

Photo Loaded	stefan1
White Balance Method	Daylight (sunny)
Contrast	77
Color Temperature	10761

Snapshots

+ Add - Del

HIKOH D700 • Manual Lens No CPU
1/0.0 1/250s ISO 400 0mm 0.67EV
/work/photos/sept 3 Juan David first autumn shots macro leafs and Veronica forest/ND7_2473.NEF

Ready.

Processing Profiles
(Custom)

White Balance

Method Custom

Spot WB Size: 8

Temperature 10762

Tint 1.000

Vibrance

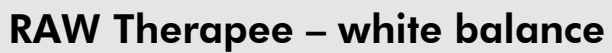
Channel Mixer

Red channel:
100

Green channel:
100

Blue channel:
0

RAW Therapee – white balance



RawTherapee 4.0.9.1

File Browser (120) Queue ND7_2473.NEF X

Navigator

$x = n/a, y = n/a$

R = n/a H = n/a L = n/a
G = n/a S = n/a A = n/a
B = n/a V = n/a B = n/a

History

Photo Loaded	stefan1
White Balance Method	Daylight (sunny)
Contrast	26

Snapshots

+ Add - Del

HIKOH D700 • Manual Lens No CPU
f/0.0 1/250s ISO 400 0mm 0.67EV
/work/photos/sept 3 Juan David first autumn shots macro leafs and Veronica forest/ND7_2473.NEF

Processing image

Processing Profiles
(Custom)

Exposure

Auto Levels Clip 0.0000 Neutral

Exposure Compensation 0.00

Highlight recovery amount 0

Highlight recovery threshold 0

Black 0

Shadow recovery 0

Brightness 0

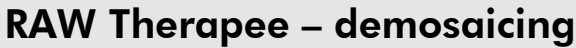
Contrast 29

Saturation 0

Tone Curve: /

Highlight Reconstruction

RAW Therapee – contrast



DISadvantages to RAW Photography:

Larger file sizes

Post processing is required

Decision making is required

Questions: