

# My Linux Software and Tools Collection

started 2015

## System

- **Kubuntu 14.10 64-bit** and then **Linux Mint 17...19**
- Oracle **Java**
- **libqt5core5a**
- `sudo apt-get install libgl1-mesa-dev`  
is needed by QtCreator
- **mesa-utils** for glxgears
- `sudo apt-get install wine`
- `sudo apt-get install autoconf`
- add user to **dialout** group  
`sudo usermod -a -G dialout karl`
- **openssh-server**
- VirtualBox  
<http://www.dedoimedo.com/computers/virtualbox-guest-addons.html>
- **jmtvfs** for connecting to Media Transfer Protocol Devices (e.g. Android)  
use

```
jmtvfs ~/mtp
```

after connecting the device via USB to mount it into ~/mtp

- [manage autostart](#) of programmes in linux mint:  
use **gnome-session-properties**
- **cinnamon-menu-editor** to edit the launcher menu in Linux Mint
- `sudo apt install earlyoom`  
Kills the largest process, before no RAM is available any more. It prevents a system freeze.

## Drivers

- HP Laserjet 1018  
try installation with system utility, if this is not working refer to  
<http://danielsblog.typepad.com/blog/2010/06/install-hp-laserjet-1018-usb-in-ubuntu.html>

## Multi Media

### Images

- gwenview  
Bildbetrachtung und einfache bearbeitungen.

- kim (kde image tools) <http://kde-apps.org/content/show.php/Kim?content=11505>
- Kolour Paint
- converseen: image resizer
- Inkscape
- shotwell image viewer
- gnome-media  
for the sound recording tool

## Video

- VLC Media Player
- youtube-dl: downloader for youtube video/audio for single video or from whole channel or play list
- kdenlive Videoeditor
- Webcam Settings (Camera, Video):

```
sudo add-apt-repository ppa:pj-assis/ppa
sudo apt-get update
sudo apt-get install guvcview
```

## Screen Casting

- most simple: **kazam**
- `sudo apt install key-mon`: shows pressed keys and mouse buttons
- \* still simple: **simplescreenrecorder**  
<http://www.maartenbaert.be/simplescreenrecorder/>
- further recommendations: <https://itsfoss.com/best-linux-screen-recorders/>

## Audio

- Clementine
- [pulseaudio-equalizer](#)
- audio-recorder

```
sudo add-apt-repository ppa:osmoma/audio-recorder
sudo apt-get update
sudo apt-get install audio-recorder
```

- Instruments Tuner (Stimmgerät) with spectrum; [List with alternatives](#)

```
lingot
```

- pavucontrol  
pulse audio volume control panel  
needed to [record the played back sound](#) which is very good explained [here](#)
- Extend playback volume in Linux Mint Cinnamon to 150% in  
Settings→Sound→Settings→Amplification.
- ncspt - a Spotify client within a terminal environment (ncurses)

### [Github - ncspot](#)

install these packages (tested on Linux Mint 19):

```
sudo apt install rustc cargo libasound2-dev libncurses5-dev libssl-dev  
libdbus-1-dev libxcb1-dev libxcb-render0-dev libxcb-shape0-dev libxcb-  
xfixes0-dev
```

## Web

- **Thunderbird** (set up account, lightning plug in, enigmail plug in)
- **Chrome**
- mumble
- murmur (mumble server)
- NextCloud client
- Seafile client
- MySQL Workbench

## Tools

### **jdotxt**

a todo-list manager

- sudo apt-get install **imagemagick**  
image processing tools
- sudo apt-get install **cutecom**  
a serial terminal
- sudo apt-get install minicom  
a command-line based serial terminal with logging
- **hterm**  
another serial terminal

sudo apt-get install **smartmontools**

for S.M.A.R.T. statistics of HDD/SSD

- sudo apt-get install **screenruler**  
a superb tool for measuring objects on the screen either in pixels or in centimeters!
- **PDF-Shuffler**

### **GHex**

a simple hex editor

- **sublime text**  
a powerful text editor
- sudo apt-get install **dstat**  
tool which shows HDD or SSD usage (read/wirte speeds)
- **grsync**  
a powerful copy tool, for copying a whole bunch of files!
- **Shutter** Screenshot tool with Image editing and highlighting tool

use

```
shutter -s
```

for a global shortcut, to get the selection mode.

- `sudo apt-get install dar-bin`  
disk archiver, like tar, but much better.  
use this vor a complete home directory backup

```
dar -R /home/ -c /media/usb-disk/home-$(date "+%Y%m%d")
```

see also [backup with cron and dar](#) or [KDar](#)

- `sudo apt-get install ser2net`  
a proxy to connect to serial (RS232) devices via a TCP/IP connection.
- **CSVpad** - a simple editor for CSV files  
<http://www.trustfm.net/software/utilities/CSVpad.php>
- **GitKraken**: a powerful GUI for managing Git repositories.

## Development

qt4-dev-tools + **Qt Creator**

- **code sourcery** for ARM development  
arm-2011.09-69-arm-none-eabi.bin
- **Eclipse CDT** Kepler SR2

eclipse autotools

- **KiCad** via ApplImages: [ApplImage für Linux anhand von KiCad](#)
- **Eagle**  
<http://web.cadsoft.de/ftp/eagle/program/7.1/eagle-lin-7.1.0.run>  
according to [this page](#) I installed this packages:  
`sudo apt-get install libxrender1:i386 libxrandr2:i386 libxcursor1:i386  
libfreetype6:i386 libfontconfig1:i386 libxi6:i386 libssl1.0.0:i386  
libstdc++6:i386`
- **wxMaxima**
- Sketchup 2013 running on wine
- octave
- `sudo apt-get install r-base`  
data analysis environment (very fast for large data sets)
- RStudio ([debian package](#))
- `sudo apt-get install librecad`  
a powerful spin off from QCAD
- **meld** a superior diff-tool with merge capability
- **GitKraken** - a graphical GIT client
- **PyCharm** - an IDE for python programming
- freecad: a powerful 3D parametric design suite

## Security

- sudo apt-get install **gnupg**
- sudo apt-get install **gpa**
- **KeePassXC**
- sudo apt-get install **deja-dup**  
backup tool using duplicity, remote/local, encrypted, compressed incremental backup
- ledger wallet HW.1, USB-device-installation

```
wget -q -O - https://www.ledgerwallet.com/support/add_udev_rules.sh |  
sudo bash
```

- timeshift as a system backup tool

## Articles about various programs

- [USB Boot Stick](#)
- [Oracle Java Installation](#)
- [Sketchup auf Kubuntu](#)
- [Standard Grafik-Treiber wieder herstellen](#)
- [Netzwerkverbindung mit Konsole einrichten](#)
- [Upgrade von 12.04.4 LTS auf 14.04](#)
- [nvidia PRIME](#)
- [avr-gcc und eclipse](#)
- [wine und RS232](#)
- [Bilder skalieren](#)
- [KDE Power Management System could not be initialized](#)
- [Umlaute](#)
- [Audio Streaming](#)
- [intel-linux-graphics-installer](#)
- [Sound zu leise?](#)
- [Broken mouse focus](#)
- [Merge JPG-files into a single PDF](#)
- [Creating a Launcher Icon \(Desktop or Menu\)](#)
- [Gnome Disk Archiver Tool](#)

## Command line tools

### Mount encrypted home directory

```
sudo ecryptfs-manager
```

And exit that manager immediately <sup>1)</sup>. Then run

```
sudo ecryptfs-recover-private /run/media/karl/17269bcc-f398-4cf3-ae12-a5f925dc809e/home/.ecryptfs/karl/.Private
```

This mounts it read only in /tmp/ecrypt.... Add the flag `-rw` for read and write access.

## System Load

- Processes, CPU, Memory: `htop`
- Networktraffic: `bmon`
- Disk access: `iostat`

## show disk usage with `df` and `du`

Example, disk free:

```
df -h /dev/sda1
```

Example for disk usage of a directory (with human readable numbers and depth level 1)

```
du -h -d1 .
```

## glxgears

test window showing 3D rendered scene in openGL

## Library Version

get version of an installed library:

```
/sbin/ldconfig -v | grep **libname**
```

## Process ID and kill

get process details for programmes with shutter in their name

```
ps ux | grep shutter
```

kill a process with it's process-ID

```
sudo kill -SIGKILL ID
```

## Todo

sort and list all TODO tags in a directory within all sub-directories

```
(cd /; grep -R -n TODO "$OLDPWD" | sed -n  
"s/^\(.*[0-9]\+\):.*\(TODO.*\)\/\2#####(\1)/p" | sort | column -s"#####" -t)
```

## Filepermissions

[change file permissions recursively](#)

## Streams

Helpful standard tools for manipulating and showing text/textfiles

- sed
- sort
- cat
- tac
- less
- grep
- head
- tail
- nano

## Mikrophon-Test

```
arecord -vvv -f dat /dev/null
```

## TCP Ports Scannen

```
sudo nmap -n -PN -sT -p- 10.0.0.43
```

Mehr Infos:

<https://www.digitalocean.com/community/tutorials/how-to-use-nmap-to-scan-for-open-ports-on-your-vps>

## Tools fürs Verwalten von vielen Dateien

- FSlint: Analysiert einen Ordner auf Duplikate, gebrochene Symlinks, schlechte Dateinamen, und vieles mehr.

- grsync: kopiert einen Ordner, hat viele Einstellungsmöglichkeiten.

## Aktuelle Zeilen einer Logdatei

```
tail -f <datei>
```

gibt die letzten 10 Zeilen aus, und neu hinzukommende.

[linux](#), [collection](#), [english](#), [script](#), [shell](#)

<sup>1)</sup>

without this step, the next command would fail

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