# Checklist for Debian System

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## 1 Basic Linux terminal operations

The following commands are really important and you will use them a lot

```
# List contents of a directory
ls
ls -lah
            # -list -all -humanreadable
           # Displays manual pages
man
cat
            # Print file in current terminal (quickly look at file contents)
pwd
           # Print the current working directory
           # Change Directory, you will use this a lot
cd
            # Removes Files (forever! be careful) | rmdir for empty directories
rm
           # Copy file1 to file2 (cp file1 file2)
ср
mkdir
           # Create a new Directory
find -name # find a file (from the current directory)
           # Find words in a file
grep
           # Install Programs on linux that end on .tar.gz
tar -xvf
chmod
           # Change file Permissions quickly
          # Print a string to the terminal, or to file: echo "String" >> a.txt
```

Next, this is how you can quickly handle files in linux

```
# Write a string, or sentence to a file. Using only one ">" will OVERWRITE the
# file if it exists, so be careful. Using two ">>" will append to the file
echo "test" >> a.txt

# You can use the output from one command as the input for another.
# The following command will print ONLY THOSE LINES of a file, that contain
# a specified string.
cat "File.txt" | grep "string"
# If you only want the first line in which it occurs, just pipe it again
cat "File.txt" | grep "string" | head 1
```

# 2 Program startup

Linux has startup files, that load everytime a certain program is started. **This is very useful**. For example .bashrc is loaded, everytime you open a terminal. If you want to tell your terminal, in which paths it has to look for programs, this is where you would do it. Other examples are:

```
/home/yourname/.profile  # Loads on startup
/home/yourname/.vimrc  # Loads on starting vim
/home/yourname/.config/i3/config  # Loads, when i3 is started
```

#### 3 Common Problems

### 3.1 wpa\_supplicant

For automatic network connection make sure that the default interface (in this case wlp3s0 is configured in your /etc/network/interfaces):

```
# The primary network interface
# This makes sure the interface is configured on startup
allow-hotplug wlp3s0
iface wlp3s0 inet
# Give a more verbose output for debugging dhcp
wpa-debug-level 3
# Path to your config file. Make sure it's correct
wpa-conf /etc/wpa_supplicant/wpa_supplicant.conf
```

#### 3.2 Fonts

Installing fonts is difficult. But it doesn't have to be. Just make sure to choose one directory (and only one) to include newly installed fonts from. The default is /usr/share/fonts/. Put all fonts you want to install there and run fc-cache afterwards. Then, on startup, tell the system where the fonts are by putting the following line into your /home/yourname/.config/i3/config:

```
exex xset +fp /usr/share/fonts/
```

### 3.3 Pc Speaker (beep!)

The Speaker can be quite annoying. To disable it, simply add two lines to /etc/modprobe.d/blacklist.conf (the .conf is important!!)

```
blacklist pcspkr
blacklist snd_pcsp
```

#### 3.4 Backlight

Configuring xbacklight to change screen brightness is not straightforward. You'll need to make some changes to /etc/X11/xorg.conf. If you get the "No outputs have backlight property" error, it is because xrandr/xbacklight does not choose the right directory in /sys/class/backlight. You can specify the directory by setting the Backlight option of the device section in xorg.conf. For instance, if the name of the directory is intel\_backlight, the device section can be configured as follows:

After a reboot, you should be able to use the normal commands xbacklight -dec 20 etc.

### 3.5 Copy to clipboard in vim

It  $\mathbf{IS}$  possible to yank lines to the system clipboard in vim. Add the following lines to your .vimrc

```
"yank to clipboard
if has("clipboard")
    set clipboard=unnamed " copy to the system clipboard

    if has("unnamedplus") " X11 support
        set clipboard+=unnamedplus
    endif
endif
" paste from clipboard
vnoremap <C-c> :w !pbcopy<CR><CR> noremap <C-v> :r !pbpaste<CR><CR>
" }}}
```

Then install vim-gtk through your package-manager.

## 4 Stuff i just cant seem to remember. And tips

Pavucontrol for microphone levels: ./ts3client\_runscript.sh
 To create bootable usb-drive:

```
sudo dd bs=4M if=/path/to/iso of=/dev/sd$$ status=progress && sync # $$
```

• To create FAT32 Filesystem use

```
mkfs -t vfat /dev/sd
```

• Copy stuff to clipboard

```
echo "test" | tr -d '\n' | xclip -selection clipboard/primary
```

• Colors of urxyt

```
color0 (black) = Black
color1 (red) = Red3
color2 (green) = Green3
color3 (yellow) = Yellow3
color4 (blue) = Blue3
color5 (magenta) = Magenta3
color6 (cyan) = Cyan3
color7 (white) = AntiqueWhite
color8 (bright black) = Grey25
color9 (bright red) = Red
color10 (bright green) = Green
color11 (bright yellow) = Yellow
color12 (bright blue) = Blue
color13 (bright magenta) = Magenta
color14 (bright cyan) = Cyan
color15 (bright white) = White
```

• For large screens i recommend adding this to .Xresources

#### Urxvt\*font: xft:consolas:size=12

• The default font (in case you want to revert is Urxvt\*font: 6x13 To configure mouse speed:

• To connect Apple devices, you need to configure the USB protocol. Identify the usbmuxd process: Open up a terminal and type,

```
ps aux | grep usbmux
```

which should return an output like

```
usbmux 6781 0.0 0.0 230120 6584 ? S1
09:30 0:00 /usr/sbin/usbmuxd -u -U usbmux
```

Kill usbmuxd: The highlighted number (6781) above is the process id/number for usbmuxd (unique for all systems and the state of a system). What we want to do is to kill this process and restart it. This can be done by the following command in the terminal,

```
sudo kill -9 6781
```

restart usbmuxd: With usbmuxd dead we need to manually start it again in order for Ubuntu to one again recognize the iPhone/iPad/iPod. Bring up the terminal once again and type,

```
sudo usbmuxd -u -U usbmux
```