# Ubuntu 16.04 LTS for Human Beans

This page collects information to have Ubuntu 16.04 LTS (Xenial Xerus) in a laptop or desktop as usable as possible for Human Beans willing to use it for production.



The leading OS for PC, tablet, phone and cloud!

### 1.1. Enable Ubuntu Partners

First enable "partners" repos, since we will use it later to install skype, at least.

#### Contents of the updated /etc/apt/sources.list

```
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```

```
## Uncomment the following two lines to add software from Canonical's
## 'partner' repository.
## This software is not part of Ubuntu, but is offered by Canonical and the
## respective vendors as a service to Ubuntu users.
deb http://archive.canonical.com/ubuntu xenial partner
deb-src http://archive.canonical.com/ubuntu xenial partner
```

### 1.2. Extra repositories

Useful extra repositories. You can fire them all in a single go once you have the sudo password in memory (i.e. you have called some command with sudo recently. That's why this list of commands includes some dummy <u>sudo ls</u> first, so that you type your password if needed, and afterwards, you are not interrupted with the rest of commands that will be executed automagically one after the other if you ciopied the whole list of lines together and pasted them in a terminal window:

```
Command on a console
```

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```
sudo ls
sudo add-apt-repository -y ppa:nilarimogard/webupd8
sudo add-apt-repository -y ppa:danielrichter2007/grub-customizer
sudo add-apt-repository -y ppa:webupd8team/java
```

```
sudo add-apt-repository -y ppa:bit-team/stable
sudo add-apt-repository -y ppa:jtaylor/keepass
sudo add-apt-repository -y ppa:marutter/rrutter
sudo add-apt-repository -y ppa:shutter/ppa
sudo add-apt-repository -y ppa:tuxonice/ppa
sudo add-apt-repository -y ppa:atareao/telegram
sudo add-apt-repository -y ppa:maarten-baert/simplescreenrecorder
sudo add-apt-repository -y ppa:yg-jensge/shotwell
sudo add-apt-repository -y ppa:philip5/extra
sudo add-apt-repository -y ppa:mkusb/ppa
sudo add-apt-repository -y ppa:hamishmb/myppa
sudo add-apt-repository -y ppa:utappia/stable
sudo add-apt-repository -y ppa:ubuntugis/ubuntugis-unstable # Needed for R package
tmap
sudo add-apt-repository -y ppa:opencpu/jq # Needed for R package tmap
# Add the release PGP keys for syncthing repo:
sudo curl -s https://syncthing.net/release-key.txt | apt-key add -
# Add the "release" channel to your APT sources for updated-twice-per-month
syncthing daemon:
sudo echo "deb https://apt.syncthing.net/ syncthing release" | tee
/etc/apt/sources.list.d/syncthing.list
```

Press enter each time when requested.

Nowadays, you can update your sources list, and install launchpad-getkeys:

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R

```
sudo apt-get update; sudo apt-get install -y launchpad-getkeys; sudo launchpad-
getkeys; sudo apt-get update
```

Launchpad-getkeys allows you to automatically import all the missing Launchpad GPG keys.

To use Launchpad Getkeys when you're behind a proxy:

sudo launchpad-getkeys -p http://proxydomain.com:port

### 1.3. Install with interaction

Install programs which require interaction, like a confirmation step, a new password or user interaction of some sort.

- mysql-server, for the webserver in localhost, etc.
- phpmyadmin, to manage mysqldatabases easily through a web browser
- apachetop, for monitoring apache in real time
- ttf-mscorefonts-installer, required by other packages (PlayOnLinux, maybe?)
- a few others like java, and network filesystem network packages

```
Command on a console

sudo apt-get install -y ttf-mscorefonts-installer nfs-common encfs libnss-winbind
winbind cifs-utils oracle-java8-installer libdvd-pkg
```

If you need a webserver & php/mysql:

**Command on a console** 

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sudo apt-get install -y mysql-server phpmyadmin apachetop postfix

### 1.4. Install the rest in program sets

You can then install all the rest of the required and useful software for common tasks (including video editing, screencasting, etc). Note that the first package names until wcatalan are localization packages for our local language, and you can skip them or adapt for your language, etc.

**Command on a console** 

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sudo apt-get install -y apt-show-versions backintime-common backintime-gnome bluefish bluefish-plugins bum bzr-explorer cairo-dock cairo-dock-plug-ins cheese chromium-browser classicmenu-indicator corkscrew create-resources cups-pdf diodon filezilla firefox-locale-ca flashplugin-installer flvstreamer gdebi geany geanyplugins gimp-plugin-registry gir1.2-gst-plugins-bad-1.0 git git-core glabels gnomealsamixer gnupg2 gparted grub2-splashimages grub-customizer gscan2pdf gstreamer0.10-plugins-good gstreamer1.0-fluendo-mp3 gstreamer1.0-plugins-bad gstreamer1.0-plugins-ugly gtk-recordmydesktop gufw guvcview gwenrename gwenview handbrake hibernate htop hyphen-ca icatalan icc-profiles-free indicator-cpufreq indicator-netspeed inkscape ispell kazam kde-l10n-ca kdenlive keepass2 keepass2-doc kile kipi-plugins krename krusader kupfer language-pack-ca language-pack-ca-base language-pack-gnome-ca language-pack-gnome-ca-base language-pack-kde-ca lftp libcurl4-gnutls-dev libdbd-mysql libgstreamer-plugins-base0.10-dev libgtk2.0-dev libmysqlclient-dev libreoffice-help-ca libreoffice-l10n-ca libsyntax-highlightengine-kate-perl linux-firmware luckybackup mailutils mc meld mobile-atlas-creator mythes-ca nautilus-actions nautilus-columns nautilus-dropbox nautilus-scriptsmanager oggvideotools ogmrip ogmtools openjdk-8-jre openshot openshot-doc opensshserver oxideqt-codecs p7zip p7zip-full p7zip-rar pavucontrol pdfchain pdfmod pdfsam pepperflashplugin-nonfree pidgin pidgin-indicator pidgin-plugin-pack pidgin-skype playonlinux powernap qemu-system qshutdown qtgstreamer-plugins-qt5 scribus scribusdoc scribus-template sendemail shutter simplescreenrecorder sshfs synaptic syncthing syncthing-gtk telegram telegram-purple terminator thunderbird thunderbird-locale-ca totem-plugins totem-plugins-extra transmageddon ubunturestricted-addons ubuntu-restricted-extras unetbootin unrar uswsusp variety virtmanager virtualbox virtualbox-dkms vlc vpx-tools wcatalan webp wine winetricks x2goclient xauth xfonts-100dpi xfonts-75dpi xfonts-base xsane xul-ext-lightning gcolor2 gedit-plugins kio-mtp shotwell testdisk geeqie pyrenamer kwalletmanager firefox libvdpau-va-gll soundconverter keychain mtp-tools mtpfs mkusb mkusb-nox usb-pack-efi ddrescue-gui torbrowser-launcher icedtea-8-plugin pdfposter posterazor youtube-dl youtube-dlg syslinux-utils ucaresystem-core alien pigz

#### And if you need R and similar developer programs, you can install also:

#### **Command on a console**

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sudo apt-get install -y r-recommended r-cran-xml libgraphviz-dev libcairo2-dev rcran-cairodevice freeglut3 freeglut3-dev r-cran-rglpk r-cran-rgl r-cran-misc3d libx11-dev libxt-dev libcurl4-gnutls-dev libxml2-dev r-cran-xml libgraphviz-dev libcairo2-dev bwidget tk-table libv8-dev r-cran-rjava libmpfr-dev libc6 libssl-dev texlive-latex-extra texlive-lang-spanish libx11-dev libxml2-dev libxml2:i386 libxtdev r-cran-misc3d subversion git texmaker tk-dev unaccent xvfb libgdal1-dev libproj-dev r-cran-rmysql libmagick++-dev r-cran-rcolorbrewer r-cran-doparallel libssh2-1-dev libudunits2-dev libgdal-dev libgeos-dev libproj-dev libjq-dev libprotobuf-dev protobuf-compiler libssl-dev libcairo2-dev libglpk-dev

If you need webserver and other typical programs intended for servers, you can install this other set too:

#### **Command on a console**

```
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```

sudo apt-get install -y php-sqlite3 postfix rabbitvcs-cli rabbitvcs-core rabbitvcs-gedit rabbitvcs-nautilus rapidsvn subversion php-memcache php-gettext php-intl php-mbstring php-pspell php-zip composer php-curl php-xmlrpc php-intl phpmcrypt php5.6-curl php5.6-xmlrpc php5.6-intl php5.6-mcrypt php7.1-mcrypt php7.1curl php7.1-xmlrpc php7.1-intl php5.6-mysql php7.1-mysql poppler-utils phpmemcached memcached If you want to have locale packages such as Catalan, you might be intersted in installaing these extra packages:

Command on a console

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```
sudo apt-get install -y aspell-ca hunspell-ca
```

#### And for Spanish:

#### **Command on a console**

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```
sudo apt-get install -y aspell-es hyphen-es ispanish language-pack-gnome-es
myspell-es mythes-es wspanish
```

Removed packages from the list compared to Ubuntu 14.04 by the time of this writing (April 23rd, 2016), and the corresponding replacement with somewhat equivalent featureset in 16.04

- kdesvn -> rapidsvn | rabbitvcs (integrated in Nautilus)
- jitsi -> installed by hand frmo their website, v 2.8.x
- nautilus-open-terminal
- totem-plugins-dvb-daemon
- linux-firmware-nonfree
- gstreamer1.0-plugins-bad-multiverse -> gstreamer1.0-plugins-bad
- indicator-multiload

Other useful programs installed by hand in a later stage:

- rstudio
- chrome
- jitsi
- gdiskdump
- phpstorm
- acroread
- canon scangear MG3200. See Canon PIXMA MG3200 Printer and Scanner
- "Master pdf editor" http://www.webupd8.org/2014/02/modify-pdf-files-in-linux-with-master.html<sup>[1]</sup> (http://code-industry.net/free-pdf-editor.php<sup>[2]</sup>)
- elastic search
- skype

You can test email sending in the command line with:

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echo testing | mail -s test\_subject youremail@example.com

### 1.4.1. Main changes noticed for human beans

Good:

- Bluetooth works by default with most devices
- Battery icon displays battery info for connectd bluetooth devices using batteries (mouse, keyboard, etc)
- Icon to edit microphone volume levels shows up automatically on the top bar when the microphone is in use

Confusing:

• "USB startup creator" doesn't let you choose a persistent partition file when creating bootable usb disks with ubuntu distros.

### 1.4.2. R

### 1.4.2.1. R v3.4.x

Si empres R, et caldran paquets extra de sistema per a instal·lar alguns paquets d'R i eines habituals associades (git, svn, etc). Pots posar les dependències habituals amb:

**Command on a console** 

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sudo apt-get install -y r-recommended r-cran-xml libgraphviz-dev libcairo2-dev rcran-cairodevice freeglut3 freeglut3-dev r-cran-rglpk r-cran-rgl r-cran-misc3d libx11-dev libxt-dev libcurl4-gnutls-dev libxml2-dev r-cran-xml libgraphviz-dev libcairo2-dev bwidget tk-table libv8-dev r-cran-rjava libmpfr-dev libc6 libssl-dev texlive-latex-extra texlive-lang-spanish libx11-dev libxml2-dev libxml2:i386 libxtdev r-cran-misc3d subversion git texmaker tk-dev unaccent xvfb libgdal1-dev libproj-dev r-cran-rmysql libmagick++-dev r-cran-rcolorbrewer r-cran-doparallel libssh2-1-dev libudunits2-dev libgdal-dev libgeos-dev libproj-dev libjq-dev libprotobuf-dev protobuf-compiler libssl-dev libcairo2-dev dos2unix pandoc r-cranrmio

Usual R packages that are useful in many cases. You can install them in an R console in a terminal (Type "R" in the terminal to launch the R console), or through RStudio command line:

```
Command on an R console
```

install.packages(c("devtools", "plotly", "Nozzle.R1", "VennDiagram", "stringr", "xml2", "parallel", "data.table", "doParallel", "xtable", "plyr", "dplyr", "reshape2", "rjson", "d3heatmap", "htmlwidgets", "googleVis", "doMC", "Rcmdr", "knitr", "checkpoint", "XLConnect", "sem", "rmarkdown", "relimp", "effects", "aplpack", "flexdashboards", "addinslist", "tidyverse", "magick", "webshot", "pacman", "officer", "flextable", "huxtable"))

{CODE}

R

### 1.4.2.2. R v3.5.x

Si necessites R 3.5.x en Ubuntu 16.04, pots afegir un repositori extra amb les següents de sota, després de llegir aquest advertiment:

Instruccions:

R

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Command on a console

sudo apt-key adv --keyserver hkp://keyserver.ubuntu.com:80 --recv-keys E298A3A825C0D65DFD57CBB651716619E084DAB9 sudo add-apt-repository 'deb https://cloud.r-project.org/bin/linux/ubuntu xenialcran35/' # main binary packages for R 3.5.x sudo add-apt-repository -y ppa:marutter/c2d4u3.5 # extra binary packages for R 3.5.x from the usual marruter repo sudo apt update sudo apt upgrade

Si estàs actualitzant des d'una versió d'R anterior, et poden ser útils aquestes instruccions de terminal de sistema:

**Command on a console** 

sudo chmod 777 /usr/lib/R/site-library /usr/lib/R/site-library/\* -R
sudo chmod 777 /usr/lib/R/library /usr/lib/R/library/\* -R
sudo chmod 777 /usr/share/R/doc/html/\* -R

I aquestes altres de consola d'R:

```
Command on an R console
```

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```
update.packages(ask = F, lib="/usr/lib/R/site-library")
```

# 1.4.3. Install new php versions and switch between them

Ubuntu 16.04 comes with php 7.0, and some php applications might still fail with php 7.0. Therefore, in some cases, it might be sensible to have both php 7.0 and php 5.x, so that you can choose which version to use for your needs at any time. Or even better, 7.1. You need to add a new repository to have other versions of php available, and you will require the equivalent branch for a patched apache2 that will work with the other php version repository.

You can do so with:

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```
xavi@computer# sudo su
sudo add-apt-repository -y ppa:ondrej/php
sudo add-apt-repository -y ppa:ondrej/apache2
sudo apt-get update
sudo apt-get install php5.6 php5.6-mysql php-gettext php5.6-mbstring php-xdebug
libapache2-mod-php5.6 php5.6-curl php5.6-gd php5.6-mcrypt php5.6-xml php5.6-xmlrpc
libphp5.6-embed php-memcache php5.6-intl php5.6-zip php5.6-sqlite3
sudo install php7.1 php7.1-mysql php-gettext php7.1-mbstring php-xdebug libapache2-
mod-php7.1 php7.1-curl php7.1-gd php7.1-mcrypt php7.1-xml php-xml-parser php7.1-
xmlrpc libphp7.1-embed php-memcache php7.1-intl php7.1-zip php7.1-sqlite3
```

Installing both php5.6 & php7.1 resulted in a lot of complaining from apt and lots of conflicts. The first suggested resolution was to remove all the stock php5 packages so that PHP 5.6 could be installed - so I just accepted the first suggestion.

The config files are all in /etc/php/5.6 and /etc/php/7.1 respectively - inside here is where you can configure which extensions are loaded, set the ini settings, and everything else for each version in isolation.

So to switch from php 5.6 to php 7.1 you need to do two things:

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```
sudo a2dismod php5.6; sudo a2enmod php7.1; sudo service apache2 restart # For php
in web apps
sudo ln -sfn /usr/bin/php7.1 /etc/alternatives/php # For php-cli in the command
```

```
line
php -v
# PHP 7.0.6-1+donate.sury.org~xenial+1 (cli) ( NTS )
# Copyright (c) 1997-2016 The PHP Group
# Zend Engine v3.0.0, Copyright (c) 1998-2016 Zend Technologies
# with Zend OPcache v7.0.6-dev, Copyright (c) 1999-2016, by Zend Technologies
# with Xdebug v2.4.0, Copyright (c) 2002-2016, by Derick Rethans
```

or from php7.1 to php5.6:

В

```
sudo a2dismod php7.1 ; sudo a2enmod php5.6 ; sudo service apache2 restart # For php
in web apps
sudo ln -sfn /usr/bin/php5.6 /etc/alternatives/php # For php-cli in the command
line
php -v
# PHP 5.6.21-1+donate.sury.org~xenial+2 (cli)
# Copyright (c) 1997-2016 The PHP Group
# Zend Engine v2.6.0, Copyright (c) 1998-2016 Zend Technologies
# with Zend OPcache v7.0.6-dev, Copyright (c) 1999-2016, by Zend Technologies
```

From the commandline, I have both php5.6 and php7.1 available as commands. I also still have a php command - look in /etc/alternatives to see that it symlinks to a particular version of PHP cli\*. You can also quickly check which yours is using by running php -v.

Remember that php.ini and other files with settings are not in /etc/php5 anymore but in /etc/php/**version**/

### 1.5. PHP Debugger

You may use a nice (but closed source) IDE such as PHPStorm (which provides a version at no cost for FLOSS projects such as Tiki), or stick with pure FLOSS apps such as Aptana Studio IDE.

See:

- Download: http://www.aptana.com/products/studio3/download<sup>[3]</sup>
- Installation: http://linuxpitstop.com/install-aptana-studio-3-on-centos-and-ubuntu/<sup>[4]</sup>
- Setup XDebug for PHP applications http://digitaldisseny.com/es/blog/206-debug-php-aptana-ubuntu<sup>[5]</sup> http://devcircle.blogspot.com.es/2013/02/enable-xdebug-in-aptana-studio-3x.html<sup>[6]</sup>
- Add svn integration

https://www.development-cycle.com/2013/09/installing-svn-support-in-aptana-studio-3/<sup>[7]</sup> http://majadc.com/installing-subversion-plugin-in-aptana-studio-3<sup>[8]</sup>

# 1.6. PHPStorm for FLOSS development

You can install as a Snap app, as indicated here: https://snapcraft.io/phpstorm<sup>[9]</sup>

**Command in a terminal window** 

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sudo snap install phpstorm --classic

# 1.7. Laptops

For laptops:

В

sudo apt install powertop tlp

For Macbook laptops:

В

sudo apt install gpomme wmpomme

For Battery saving - Suspend and Hibernate - Tuxonice Kernel

В

```
sudo apt-get install tuxonice-userui linux-generic-tuxonice linux-headers-generic-
tuxonice
```

For hybrid graphic cards: Intel + Nvidia:

Intel + ATI fglrx-pxpress

### 1.7.1. Fixing battery drainage when switched off

Confirmed that problem still exists on a clean install from Ubuntu 13.04 up to 16.04 on a HP Pavillion dv6 i7. I installed the required program to fix the issue with:

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```
sudo apt-get install ethtool
```

and we can check the "Wake on lan" current status with:

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```
user@machine:~$ sudo ethtool eth0 | grep Wake-on
[sudo] password for user:
    Supports Wake-on: pumbg
    Wake-on: g
```

If under the option 'Wake-on:' it says anything other than 'd' then it means this feature is enabled.

If it's enabled then on most occasions it'll say 'g' and you can use the below command to disable it.

В

```
sudo ethtool -s eth0 wol d
```

You may not have device **eth0** but **eno1** or similar (check using command **ifconfig** in the command line)

Then enter the previous command to who the status of 'Wake-on:' it should say 'd'.

But the thing is, this setting will be lost as soon as you reboot your computer. So to make Ubuntu permanently save the changes, use the below steps.

В

```
gksudo gedit /etc/rc.local
```

Now simply copy and past the below code into that newly opened configuration file (make sure to paste it above the 'exit 0' code).

В

Replace **eth0** for your own device name if it's different than this (in my case, it's **eno1**).

Since Ubuntu 12.04, you may to do something else. Let's first copy the original script to the '/etc/pm ...' folder, as if we were to edit the file while keeping it on its original location, then it might get overwritten when your OS receives update. So for that, open the terminal window and enter the below command.

В

```
sudo cp /usr/lib/pm-utils/power.d/disable_wol /etc/pm/power.d
```

Now enter the below command to edit it.

В

```
gksudo gedit /etc/pm/power.d/disable_wol
```

Once opened locate a code called 'wol g' (you can search for it in the editor) as shown below then simply change the letter 'g' to 'd'.

```
set_wol_status() {
    for d in "/sys/class/net/"*; do
          -e "$d/wireless" ] && continue
          -h "$d/device/driver" ] || continue
        printf "Setting Wake On Lan for %s to %s..." "${d##*/}" "$1"
        case $1 in
            disable) ethtool -s "${d##*/}" wol d>/dev/null 2>&1;;
            enable) ethtool -s "${d##*/}" wol g>/dev/null 2>&1;;
        esac
          "$?" -eq 0 ] && echo Done. || echo Failed.
        ſ

    Only change the

    done
                                                             latter 'g' to 'd',
}
                                                             nothing more ...
                                                 sh • Tab Width: 8 •
                                                                       Ln 15, Col
```

Then click on the 'Save' button' and close the editor. Now reboot your PC and when you've logged into the desktop use the command <a href="sudo ethtool eth0">sudo ethtool eth0</a> | <a href="grepWake-on">grepWake-on</a> to know if it's working or not. If it's working, then under 'Wake-on', now it should say 'd' (= disabled).

### 1.8. Ensure Syncthing uses latest

# daemon binary

Open synching-gtk UI, and update the synching daemon location to /usr/bin/syncthing if it doesn't get it from there by default, which will be v0.14.16 at the time of this writing .

0	UI Settin	gs	_ = ×			
Interface	Integration	Daemon	Advanced			
Warning: Changing settings on this page may prevent you from using Syncthing-GTK						
Syncthing binary location						
/usr/bin/syncthing			Browse			
This binary will be started when syncthing daemon is not running and "start daemon in background" option is checked on "Interface" page.						
Daemon arguments	and variables					
Space-separated list of arguments and environment variables passed when starting above binary						
Use VARIABLE="value" to set variable and -argument="value" (with dash) for argument.						
If you need to pass commandline to different command (such as logger or ionice), separate prefixed arguments with exclamation mark "!"						
Example: STTRACE="all" logger -t /var/log/syncthing.log ! -logflags=10						
			Cancel 🛃 Save			

Click to expand

Then restart the daemon to get the new and updated binary from the right path, in case you had a previous version of the daemon elsewhere (by default syncthing-gtk downloads a not-so-up-to-date version for you from elsewhere in this path: <a href="https://www.new.ipsthing.x64">/https://www.new.ipsthing.x64</a>)

Otherwise, syncthing-gtk would download an earlier version of the daemon (for instance, v0.14.9 as of the time of this writing which is not compatible with the v0.14.14 of the daemon in the sync.evoludata.com or Windows boxes at this time)

# 1.9. Fix hibernation Trial 1

Taken from: http://ubuntuforums.org/showthread.php?t=2314905<sup>[10]</sup>

With the new systemd configuration, the Unity menu's "hibernate" option does not call on pmhibernate. It instead uses the hibernate and sleep service of logind / systemd. I'm using a tuxonice kernel, and the tlp power management setup on a thinkpad w520, running Ubuntu 16.04 (devel). I think this article is still relevant even if you don't have tlp or tuxonice, since it's systemd that changes how suspend and hibernate work.

When this laptop suspends or hibernates, sometimes the wifi stops working when it wakes back up. The solution is to unload the wifi device driver module prior to sleep, and then reload it upon resume, the way the "hibernate" script does, and "pm-hibernate" also did.

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```
/etc/systemd/system/wifi-modules-unload-reload.service
```

#### **Contents of the previous file**

#### В

```
# Unload and reload the wifi modules over suspend / resume.
[Unit]
Description=WIFI modules unload/reload over suspend/resume
Before=sleep.target
StopWhenUnneeded=yes
[Service]
Type=oneshot
RemainAfterExit=yes
ExecStart=/sbin/modprobe -r iwldvm
ExecStop=/sbin/modprobe iwldvm
[Install]
WantedBy=sleep.target
```

The other problem I had was that, using tuxonice, the user ui program was not visible during the hibernation process. I fixed this with:

В

sudo nano /etc/systemd/system/tuxonice-vtswitch.service

#### **Contents of the previous file**

```
Ъ
```

# Switch vt for tuxonice UI

```
[Unit]
Description=Switch VT for tuxonice UI
Before=sleep.target
StopWhenUnneeded=yes
```

```
[Service]
Type=oneshot
```

```
RemainAfterExit=yes
ExecStart=/bin/chvt 63 ; /bin/sh -c "/bin/echo -ne '\033%@' > /dev/tty63"
ExecStop=/bin/chvt 7
```

[Install] WantedBy=sleep.target

#### Enable them with:

ß

```
sudo systemctl enable wifi-modules-unload-reload.service
sudo systemctl enable tuxonice-vtswitch.service
```

This worked well in the macbookpro laptop from 2008.

### Trial 2

If the previous trick doesn't work (like in a hp laptop with dual graphics card), try this other one: https://www.youtube.com/watch?v=l8xa-PkDhhk<sup>[11]</sup>

```
sudo gedit /etc/default/grub
GRUB_CMDLINE_LINUX_DEFAULT="quiet splash'"
to
GRUB_CMDLINE_LINUX_DEFAULT="quiet splash acpi_backlight=vendor acpi_osi='!Windows
2013' acpi_osi='!Windows 2012'"
sudo update-grub
reboot twice!!
```

However, this didn't work for me. Hibernation or suspending fails in that computer with dual graphics card (ati + intel)

### 1.10. Re-enable hibernation from menus

First check if hibernation is compatible with your computer

You should save all of your work before hibernating the computer, just in case something goes

wrong and your open applications and documents cannot be recovered when you switch on the computer again.

Run this in a console

В

sudo pm-hibernate

Enter your password when prompted.

After you computer turns off, switch it back on. Did your open applications re-open?

If hibernate doesn't work, check if your swap partition is at least as large as your available RAM.

If the hibernate test works, you can continue to use the sudo pm-hibernate command when you want to hibernate.

You can also enable the hibernate option in the menus. To do that, use your favorite text editor to create

В

sudo nano /etc/polkit-1/localauthority/50-local.d/com.ubuntu.enable-hibernate.pkla

Add the following to the file and save:

В

```
[Re-enable hibernate by default]
Identity=unix-user:*
Action=org.freedesktop.upower.hibernate
ResultActive=yes
```

Alternatively, if the previous doesn't work for some reason, you can edit this file:

В

sudo nano /var/lib/polkit-1/localauthority/10-vendor.d/com.ubuntu.desktop.pkla

Search for the sections related to "hibernate", and set **ResultActive=no** to **ResultActive=yes** 

```
[Disable hibernate by default in upower]
Identity=unix-user:*
Action=org.freedesktop.upower.hibernate
ResultActive=yes
[Disable hibernate by default in logind]
Identity=unix-user:*
Action=org.freedesktop.login1.hibernate
ResultActive=yes
```

#### **Re-enable hibernate in xfce panels**

See http://www.bio.brandeis.edu/~shaikh/linux/suspend.htm<sup>[12]</sup>

В

sudo nano /etc/polkit-1/localauthority/50-local.d/com.ubuntu.desktop.pkla

#### Content to add:

В

```
[Re-enable hibernate by default]
Identity=unix-user:*
Action=org.freedesktop.upower.hibernate
ResultActive=yes
```

### 1.11. Boot-repair (in multi-boot environments)

Thse instructions will save you some headache in a multi-boot environment when one OS changes the boot menu and doesn't allow you boot in your preFfered OS. You can boot from an Ubuntu live CS/DVD/USB, and install boot-repair program from its own repo, with:

В

```
sudo add-apt-repository ppa:yannubuntu/boot-repair
sudo apt-get update
sudo apt-get install -y boot-repair && boot-repair
```

More information:

```
https://help.ubuntu.com/community/Boot-Repair<sup>[13]</sup>
```

### 1.12. Add mate desktop

From: http://ubunlog.com/ya-disponible-mate-1-12-1-para-ubuntu-15-10-y-16-04-lts/<sup>[14]</sup>

#### **Command on a console**

```
В
```

```
sudo add-apt-repository ppa:ubuntu-mate-dev/xenial-mate
sudo apt-get update
sudo apt-get install mate-core mate-desktop-environment mate-desktop-environment-
extras mate-dock-applet
```

If you need to remove it for some reason and reverse the system to its previous state, do:

```
Command on a console

sudo apt-get install ppa-purge
sudo ppa-purge ppa:ubuntu-mate-dev/xenial-mate
```



Just a test if it renders the image in PDF if it is out of the table:



## 1.13. Add Acrobat Reader 9.x

By default you can get Adobe Acrobat 8.x in the repositories, as far as I see. But you can download 9.x version in English from Adobe website: http://get.adobe.com/reader/otherversions/<sup>[15]</sup>

For instance, this version: AdbeRdr9.5.5-1\_i386linux\_enu.deb<sup>[16]</sup>

For 32-bit system:

В

```
sudo dpkg -i AdbeRdr9.5.5-1_i386linux_enu.deb; sudo apt-get -f install
```

For 64-bit system:

The easier way to install Adobe Reader DEB on 64 bit Ubuntu is using Gdebi, which will automatically install all dependencies.

В

```
sudo dpkg -i --force-architecture AdbeRdr9.5.5-1_i386linux_enu.deb; sudo apt-get -f
install
```

# 1.14. Sign PDFs

You can Sign PDF documents with PortableSigner, a small Java app that does the job effectively: add the digital signature that can be recognized with Adobe Reader, and it can also place an extra page with a block of text (and you graphical signature as png/jpg in addition if desired) indicating that the document has been digitally signed by a method recognized by Adobe, and you can check the digital signature by means of opening in Adobe Reader the source pdf from that printed document.

See:

https://sourceforge.net/projects/portablesigner/<sup>[17]</sup>

# 1.15. Pair Bluetooth devices

Most devices work by default with standard procedures since the upgrade to Ubuntu 16.04 (they didn't in Ubuntu 14.04).

But Apple Bluetooth Keyboard seems to fail (since Ubuntu Jaunty in 2009, according to some posts elsewhere). I dream to find some valid workaround...

В

```
xavi@penguinbookpro:~$ hcitool scan
Scanning ...
00:C0:DF:01:62:22 Targus Bluetooth Laser Mouse for Mac (AMB08)
00:22:41:DD:36:4B n/a
```

My solution was to buy a new bluetooth keyboard with backlight in the keys, for  $\sim 30 \in$  in Amazon. It works as is with default procedures. And the battery icon in the top bar of the desktop also displays the battery status of the bluetooth devices (nice!): mouse, keyboard, ... aside of the klaptop battery.

# 1.16. Tweaks to run Tiki Wiki CMS

Allow runing mod rewrite in Apache

### 1.16.1. Fix apache2.4 default settings to run Tiki

Edit /etc/apache2/sites-enabled/000-default

and change docroot from /var/www to /var/ww/tiki or your custom path, AllowOVerride from None to All, and ensure that the syntax to allow access to override .htaccess file is set with the syntax for Apache 2.4 ("Require all granted") and not with the former one for Apache2.2 ("Order allow,deny" and "Allow from all")

The file should be left as like:

ß

```
root@coprinus:~# cat /etc/apache2/sites-enabled/000-default.conf
<VirtualHost *:80>
    ServerAdmin webmaster@localhost
```

```
DocumentRoot /var/www/html
        <Directory />
                Options FollowSymLinks
                AllowOverride None
        </Directory>
        <Directory /var/www/html/>
                Options Indexes FollowSymLinks MultiViews
                AllowOverride All
        #Order allow,deny
        #Allow from all
        Require all granted
        </Directory>
        ScriptAlias /cgi-bin/ /usr/lib/cgi-bin/
        <Directory "/usr/lib/cgi-bin">
                AllowOverride None
                Options +ExecCGI -MultiViews +SymLinksIfOwnerMatch
                Order allow, deny
                Allow from all
        </Directory>
        ErrorLog ${APACHE LOG DIR}/error.log
        # Possible values include: debug, info, notice, warn, error, crit,
        # alert, emerg.
        LogLevel warn
        CustomLog ${APACHE LOG DIR}/access.log combined
   Alias /doc/ "/usr/share/doc/"
    <Directory "/usr/share/doc/">
        Options Indexes MultiViews FollowSymLinks
        AllowOverride None
        Order deny,allow
        Deny from all
        Allow from 127.0.0.0/255.0.0.0 ::1/128
    </Directory>
</VirtualHost>
```

enable also the mod rewrite in Apache

commands in a console

ß

### 1.16.2. Install elasticsearch 5.x from repos

See:

https://www.elastic.co/guide/en/elasticsearch/reference/5.0/deb.html#deb-repo<sup>[18]</sup>

Commands on a console:

Ъ

```
wget -q0 - https://artifacts.elastic.co/GPG-KEY-elasticsearch | sudo apt-key add -
sudo apt-get install apt-transport-https
echo "deb https://artifacts.elastic.co/packages/5.x/apt stable main" | sudo tee -a
/etc/apt/sources.list.d/elastic-5.x.list
sudo apt-get update && sudo apt-get install elasticsearch
```

Ubuntu 16.04 uses systemd, as it can be queried with:

В

ps -p 1

Running Elasticsearch with systemd

To configure Elasticsearch to start automatically when the system boots up, run the following commands:

В

sudo /bin/systemctl daemon-reload sudo /bin/systemctl enable elasticsearch.service

Info provided in the console standard output:

"

Synchronizing state of elasticsearch.service with SysV init with /lib/systemd/systemd-sysv-install...

Executing /lib/systemd/systemd-sysv-install enable elasticsearch

Created symlink from /etc/systemd/system/multi-user.target.wants/elasticsearch.service to /usr/lib/systemd/system/elasticsearch.service.

Elasticsearch can be started and stopped as follows:

В

```
sudo systemctl start elasticsearch.service
sudo systemctl stop elasticsearch.service
```

These commands provide no feedback as to whether Elasticsearch was started successfully or not. Instead, this information will be written in the log files located in /var/log/elasticsearch/.

By default the Elasticsearch service doesn't log information in the systemd journal. To enable journalctl logging, the --quiet option must be removed from the ExecStart command line in the elasticsearch.service file.

When systemd logging is enabled, the logging information are available using the journalctl commands:

To tail the journal:

В

```
sudo journalctl -f
```

To list journal entries for the elasticsearch service:

В

```
sudo journalctl --unit elasticsearch
```

To list journal entries for the elasticsearch service starting from a given time:

Ъ

```
sudo journalctl --unit elasticsearch --since "2016-10-30 18:17:16"
```

Check man journalctl or https://www.freedesktop.org/software/systemd/man/journalctl.html<sup>[19]</sup> for more command line options.

### 1.16.2.1. Install also kibana 5.x from repos

See:

- https://www.elastic.co/guide/en/kibana/5.0/install.html<sup>[20]</sup>
- https://www.elastic.co/guide/en/kibana/5.0/deb.html<sup>[21]</sup>

If you don't have that yet, see above to get the gpg-key, the apt-transport-https package and the repository url.

Commands on a console:

Ъ

sudo apt-get install elasticsearch

#### Running Kibana with systemd

To configure Elasticsearch to start automatically when the system boots up, run the following commands:

Ъ

sudo /bin/systemctl daemon-reload
sudo /bin/systemctl enable kibana.service

Info provided in the console standard output:

#### "

Synchronizing state of kibana.service with SysV init with /lib/systemd/systemd-sysv-install... Executing /lib/systemd/systemd-sysv-install enable kibana

Kibana can be started and stopped as follows:

ß

```
sudo systemctl start kibana.service
sudo systemctl stop kibana.service
```

These commands provide no feedback as to whether Kibana was started successfully or not. Instead, this information will be written in the log files located in /var/log/kibana/.

# 1.17. Connect remotely using X2Go server

Coprinus usually gets local IP: 192.168.1.133 from eth0 (and 192.168.1.131 or anoher one from wlan when used instead)

Since Freenx doesn't seem to be easily installable in Ubuntu 14.04 servers (at least up to the time of this writing ). Therefore, we can use an open-source equivalent alternative, called **x2go** (x2goserver and x2goclient), which is maintained for GNU/Linux based servers, and with supported clients for GNU/Linux, Mac and Windows.

Quick howto to turn your machine into an X2Go server:

```
sudo apt-get install python-software-properties
sudo apt-add-repository ppa:x2go/stable
sudo apt-get update
sudo apt-get install x2goserver x2goserver-xsession
sudo apt-get install x2gomatebindings # if you use MATE/mubuntu
sudo apt-get install x2golxdebindings # if you use LXDE/lubuntu
```

You also need to install some desktop environment which is supported by X2Go by default, and in our case, we will install one of the lightest desktops possible: **LXDE** (see http://wiki.x2go.org/doku.php/doc:de-compat<sup>[22]</sup> for the full list)

В

В

sudo apt-get install -y lxde

#### Notes:

• Remember to install x2goclient in the client computer in order to connect to the server accordingly.

В

```
sudo apt-get install x2goclient
```

### 1.18. Multiple USB Writing

From: https://www.howtoforge.com/tutorial/multiple-usb-writing-on-linux/<sup>[23]</sup>

### 1.18.1. Writing an ISO on multiple USBs

To write an ISO image file on multiple USB drives simultaneously, you will need the software that is named "MultiWriter". Ubuntu users will find it in their default repositories with the package name "gnome-multi-writer".

### 1.18.2. Writing multiple images on one USB

#### (a.k.a. "Multi-boot USB disk")

If you want to write multiple ISO images on one USB in order to have the capacity to boot into a selection of systems by using the same pen drive, you can do it with a tool called "MultiSystem", or with another one called multiboot.

#### Using multisystem

Add the corresponding repository by entering the following commands on the terminal:

```
sudo add-apt-repository 'deb http://liveusb.info/multisystem/depot all main'
sudo launchpad-getkeys
sudo apt update
sudo apt install multisystem
```

Open the application and select the device from the list below. Note that the device must be mounted at "/media" and its filesystem must be "FAT32" in order for multisystem to detect it properly.

#### MultiSystem started



On the first tab of the application's menu, you may add your image files one by one. Just hit the

green arrow button and a file manager window will let you navigate your local files.

Add image file in MultySystem

Next, you may select the "Menus" tab which is basically a Grub configurator. It will allow you to set up the grub.cfg configuration file set the colors and background image of the bootloader and compile the menu list.

Grub Configurator

Other options include the use of non-free components like the PLoP boot manager and the FiraDisk. Moreover, in the "Boot" tab, you may select system-specific boot options, or just test-drive your creation in the QEMU system virtualization tool, or in VirtualBox. This of course, presupposes the existence of either in your system.

#### Other Bootmanagers

If MultiSystem isn't working for you, you may also try alternatives like the multibootusb or the YUMI that basically do the same thing. In general, I have found that all of these tools are a little bit underdeveloped and often riddled with bugs, so you should have patience and not give up easily. Having a multisystem USB stick is worth your time and effort.

Using multibootusb

From: https://itsfoss.com/multiple-linux-one-usb/<sup>[24]</sup>

Web: http://multibootusb.org/<sup>[25]</sup>

Deb:

 $https://github.com/mbusb/multibootusb/releases/download/v9.2.0/python3-multibootusb_9.2.0-1\_all.deb^{\cite{126}}$ 

The recommended filesystem is FAT32, so make sure to format your USB drive before creating a multi-boot USB stick.

	BootUSB - 8.8.	0				
File Help	5000038-8.8.	0				
Select USB dis	ć	All Drives		alect	image	Browse
					-	
/dev/sdb1	•	Detect Drive	_ 0	SO/Fedora-Workstation-Live-x86_64-24-1.2.iso		
		USB Deta	ils Ir	mage [	Details	
Drive: /de	ev/sdb1			Type:	fedora	
Vendor: VendorCo				Size: 1.4G		
	Model: ProductCode			Boot:	True	
Size: 7.5						
Type: pa						
Filesystem: vfa						
Mount: /m	edia/ambarish/B	OUTLINUX				
MultiBootUSB	Write Image to	disk Insta	ll Sysl	inux	Boot ISO/USB	
	j					
				Install distro 💼 Uninstall distro		
			ub	ubuntu-16.10-desktop-amd64		
			Fe	Fedora-Workstation-Live-x86_64-24-1.2		
0%						

Status: Idle

You can select the persistence size by dragging the slider under MultiBootUSB tab. Persistence gives you an option to save changes to the USB drive in runtime. (in theory; will it work since Ubuntu 16.04 doesn't seem to use it by default?)

MultiBootUSB	Write Image to disk	Install Syslinux		Boot ISO/USB	
Persistence		583.0M	<b>↓</b> In:	stall distro	💼 Uninstall distro

Next time I boot through the USB, I get the option of choosing either of the distributions.



# 1.19. Create Linux Live USB disks

You can add an extra repository to include mkusb dus (**Do USB Stuff**), which will allow you to create boot usb disks with persistence of changes in a reliable way for recent Ubuntu distros such as 16.04 LTS and newer. In such distros the default traditional methods such as USB Disk Creator or UnetBootIn no longer work in all cases as they did with earlier Ubuntu versions.

Derived from: https://help.ubuntu.com/community/mkusb<sup>[27]</sup>

В

```
sudo add-apt-repository ppa:mkusb/ppa # and press Enter
sudo apt-get update
sudo apt-get install mkusb mkusb-nox usb-pack-efi
```

And system for a tweaked version of LXLE 16.04.2 (32 bits; 1-disk-fits-all-computers approach): https://help.ubuntu.com/community/mkusb/persistent/LXLE<sup>[28]</sup>

### 1.20. Video Edition

The first program to try can be **OpenShot** (multiplatform).

But if you need more power/features, you can use KDEnLive (GNU/Linux only, and maybe MacOSX but not Windows).

And if you want to use a newer version than the one that comes with your distribution (either \*ubuntu 16.04, 18.04, etc., or even with the Kubuntu-ppa/Backports repo), you can install KDEnLive

by means of the Flatpack system, which works nicely in my first tests

В

```
sudo add-apt-repository ppa:alexlarsson/flatpak
sudo apt update
sudo apt install flatpak # install flatpack software
sudo apt install gnome-software-plugin-flatpak # Install the Software Flatpak
plugin (optional)
flatpak remote-add --if-not-exists flathub
https://flathub.org/repo/flathub.flatpakrepo # -- Add the Flathub repository
flatpak install flathub org.kde.kdenlive # Install KdenLive through Flatpack -
KDENLive version 18.12.0 by the time of this writing December 2018 ! on top of
Kubuntu 16.04
flatpak run org.kde.kdenlive # Run KdenLive through Flatpack
```

# 1.21. Dowload your own full YouTube Playlists

You can easily download your own videos of youtube (or even your entire playlists) through the application youtube-dl or yt-dlp.

# 1. In (K)Ubuntu 24.04

In Kubuntu 24.04, I could download playlists with these apps that I could obtain from **Discover** app:

- Video Downloader. Its seems to be a nice and simple GUI for yt-dlp, which does all the job in the background for you, just after you paste the playlist url and select whether you want auidio or video.
- **UMD4** (Ultimate Media Downloader). However, it seems to be an eavluation version, available for free during 15d
- Youtube Downloader. However, it seems to be an eavluation version, available for free during 3d

Other options, from console (youtube-dl, yt-dlp, failed for me for different reasons, even if I could make them work in previous kubuntu versions)

# 2. youtube-dl

### 2.1. Installation In Ubuntu 24.04 - failed

You can download youtube playlist using playlist-dl In Kubuntu:

https://snapcraft.io/install/playlist-dl/kubuntu#install<sup>[29]</sup>

```
In other distros:
https://snapcraft.io/playlist-dl<sup>[30]</sup>
```

Commands in a terminal window

В

sudo snap install playlist-dl #playlist-dl 2.2 de keshavbhatt (keshavnrj⊙) installed

#### However, it fails to work:

```
ß
```

```
xavi@tricholoma:~/Baixades/Youtube$ playlist-dl
Gtk-Message: 14:39:13.122: Failed to load module "xapp-gtk3-module"
Gtk-Message: 14:39:13.261: Failed to load module "window-decorations-gtk-module"
Gtk-Message: 14:39:13.261: Failed to load module "colorreload-gtk-module"
Qt: Session management error: Could not open network socket
propsReply "An AppArmor policy prevents this sender from sending this message to
this recipient; type=\"method_call\", sender=\":1.583\" (uid=1000 pid=119180
comm=\"/snap/playlist-dl/16/usr/bin/playlist-dl\" label=\"snap.playlist-
dl.playlist-dl (enforce)\") interface=\"org.freedesktop.DBus.Properties\"
member=\"GetAll\" error name=\"(unset)\" requested reply=\"0\"
destination=\"org.freedesktop.NetworkManager\" (uid=0 pid=1551
comm=\"/usr/sbin/NetworkManager --no-daemon\" label=\"unconfined\")"
nmReply "An AppArmor policy prevents this sender from sending this message to this
recipient; type=\"method call\", sender=\":1.583\" (uid=1000 pid=119180
comm=\"/snap/playlist-dl/16/usr/bin/playlist-dl\" label=\"snap.playlist-
dl.playlist-dl (enforce)\") interface=\"org.freedesktop.NetworkManager\"
member=\"GetDevices\" error name=\"(unset)\" requested reply=\"0\"
destination=\"org.freedesktop.NetworkManager\" (uid=0 pid=1551
comm=\"/usr/sbin/NetworkManager --no-daemon\" label=\"unconfined\")"
"Object path cannot be empty"
[119180:119180:0608/143913.425839:FATAL:credentials.cc(122)] Check failed: . :
Permission denied (13)
Trampa de traçat/punt d'aturada (s'ha bolcat la memòria)
xavi@tricholoma:~/Baixades/Youtube$
```

### In Ubuntu 22.04

I couldn't find youtube-dl, but could use yt-dlp (see below)

### In Ubuntu 20.04

You can install youtube-dl from repositories, even if it won't be updated as frequently as needed sometimes, to get sync with youtube way of working. Therefore, you are encouraged to install through the command-line:

#### Commands in a terminal window

```
В
```

```
sudo apt update && sudo apt install youtube-dl # install programs from repos if you
don't have them yet
sudo wget https://yt-dl.org/downloads/latest/youtube-dl -0 /usr/local/bin/youtube-
dl # get latest version from developers site
sudo chmod a+rx /usr/local/bin/youtube-dl # fix permissions of the downloaded file
sudo youtube-dl -U # update your previous youtube-dl version
```

### 2.2. Usage

You can download your own youtube playlist with:

```
Commands in a terminal window
```

```
В
```

```
youtube-dl -ci "https://www.youtube.com/playlist?list=YOURPLAYLISTID" -o
"%(title)s-%(id)s.%(ext)s"
```

Replace **YOURPLAYLISTID** with your own YouTube playlist id (note it's not your youtube channel ID, but the youtube playlist id). You can get it from the url of a video when shown through it's own playlist. That url might look like:

- https://www.youtube.com/watch?v=guFSSJTjyZI&list=<sup>[31]</sup>PLM2ch5TKp0OdtMZeqC0JQw6BwJ1
   9VDcj4&index=2
- https://www.youtube.com/playlist?list=<sup>[32]</sup>PLM2ch5TKp0OdtMZeqC0JQw6BwJ19VDcj4

Therefore, the playlist id is that part after **list=** and before any ampersand (&) if any. In this case: **PLM2ch5TKp0OdtMZeqC0JQw6BwJ19VDcj4** 

Therefore, this would be the instruction in the command line:

```
youtube-dl -ci
"https://www.youtube.com/playlist?list=PLM2ch5TKp00dtMZeqC0JQw6BwJ19VDcj4" -o
"%(title)s-%(id)s.%(ext)s"
```

And if you need in mp4 format only (because your tv doesn't accept some webm or mkv codec files, or whatever other reason), you can add these extra params -f

```
'bestvideoext=mp4+bestaudioext=m4a/mp4':
```

#### Commands in a terminal window

ß

```
youtube-dl -ci -o "%(title)s-%(id)s.%(ext)s" -f
'bestvideo[ext=mp4]+bestaudio[ext=m4a]/mp4'
"https://www.youtube.com/playlist?list=PLM2ch5TKp00dtMZeqC0JQw6BwJ19VDcj4"
```

### 2.3. Looking for a GUI for youtubedl? youtube-dlg

There is a nice GUI called youtube-dlg, however, it doesn't seem to be updated as frequently as needed to keep it updated to latest youtube-dl changes (and therefore, with youtube changes).

You might try the GUI Download-DLG, in case it still works for you (if did for me months ago, but not currently, so I had to go to the command line to be able to fetch my own video playlist successfully)

В

#sudo add-apt-repository ppa:nilarimogard/webupd8 # needed once for youtube-dlg sudo apt update && sudo apt install youtube-dlg # install programs from repos if you don't have them yet # refresh youtube-dl from the commands above so that you have the latest version installed

Derived from:

http://www.webupd8.org/2014/03/multi-platform-youtube-dl-gui-youtube.html<sup>[33]</sup>

В

# 3. yt-dlp

If youtube-dl doesn't work for you any more (it did fail for me in 2023-10), you can try installing yt-dlp from discover app, or through pip, and launch the command with this program

```
Commands in a terminal window
```

```
yt-dlp -ci -o "%(title)s-%(id)s.%(ext)s" -f
'bestvideo[ext=mp4]+bestaudio[ext=m4a]/mp4'
"https://www.youtube.com/playlist?list=PLM2ch5TKp00dtMZeqC0JQw6BwJ19VDcj4"
```

You can check the version of yt-dlp with:

```
$ yt-dlp -U
Current version: stable@2023.12.30 from yt-dlp/yt-dlp
Latest version: stable@2024.04.09 from yt-dlp/yt-dlp
```

If installed with pip, you will see this message:

В

В

ß

```
ERROR: You installed yt-dlp with pip or using the wheel from PyPi; Use that to update
```

To upgrade you need to run a command out of two, it depends on how you installed it.

If you installed it via pip, use:

В

```
pip install --upgrade yt-dlp
```

#### otherwise use:

В

yt-dlp -U

#### Example:

В

```
pip install --upgrade yt-dlp
Defaulting to user installation because normal site-packages is not writeable
Requirement already satisfied: yt-dlp in /home/xavi/.local/lib/python3.10/site-
packages (2023.12.30)
Collecting yt-dlp
  Downloading yt dlp-2024.4.9-py3-none-any.whl (3.1 MB)
                                           — 3.1/3.1 MB 391.7 kB/s eta 0:00:00
Requirement already satisfied: websockets>=12.0 in
/home/xavi/.local/lib/python3.10/site-packages (from yt-dlp) (12.0)
Requirement already satisfied: pycryptodomex in /usr/lib/python3/dist-packages
(from yt-dlp) (3.11.0)
Requirement already satisfied: brotli in /usr/lib/python3/dist-packages (from yt-
dlp) (1.0.9)
Requirement already satisfied: requests<3,>=2.31.0 in
/home/xavi/.local/lib/python3.10/site-packages (from yt-dlp) (2.31.0)
Requirement already satisfied: urllib3<3,>=1.26.17 in
/home/xavi/.local/lib/python3.10/site-packages (from yt-dlp) (2.2.0)
Requirement already satisfied: mutagen in /home/xavi/.local/lib/python3.10/site-
packages (from yt-dlp) (1.47.0)
Requirement already satisfied: certifi in /usr/lib/python3/dist-packages (from yt-
dlp) (2020.6.20)
Requirement already satisfied: charset-normalizer<4,>=2 in
/home/xavi/.local/lib/python3.10/site-packages (from requests<3,>=2.31.0->yt-dlp)
(3.3.2)
Requirement already satisfied: idna<4,>=2.5 in /usr/lib/python3/dist-packages (from
requests<3,>=2.31.0->yt-dlp) (3.3)
Installing collected packages: yt-dlp
  Attempting uninstall: yt-dlp
    Found existing installation: yt-dlp 2023.12.30
    Uninstalling yt-dlp-2023.12.30:
      Successfully uninstalled yt-dlp-2023.12.30
ERROR: pip's dependency resolver does not currently take into account all the
packages that are installed. This behaviour is the source of the following
dependency conflicts.
spotdl 4.2.4 requires yt-dlp<2024.0.0,>=2023.11.16, but you have yt-dlp 2024.4.9
which is incompatible.
Successfully installed yt-dlp-2024.4.9
```

You might also install sitewide with root permissions, but it is not recommended. See below:

#### "

WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a

#### virtual environment instead: https://pip.pypa.io/warnings/venv<sup>[34]</sup>

Example run as root user:

В

```
sudo pip install --upgrade yt-dlp
[sudo] contrasenya per a xavi:
Collecting yt-dlp
 Downloading yt dlp-2024.4.9-py3-none-any.whl (3.1 MB)
                                           - 3.1/3.1 MB 213.7 kB/s eta 0:00:00
Requirement already satisfied: brotli in /usr/lib/python3/dist-packages (from yt-
dlp) (1.0.9)
Collecting mutagen
  Downloading mutagen-1.47.0-py3-none-any.whl (194 kB)
                                  ______ 194.4/194.4 KB 565.0 kB/s eta 0:00:00
Requirement already satisfied: certifi in /usr/lib/python3/dist-packages (from yt-
dlp) (2020.6.20)
Collecting websockets>=12.0
 Downloading websockets-12.0-cp310-cp310-
manylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_17_x86_64.manylinux2014_x86_64.w
hl (130 kB)
                                        — 130.2/130.2 KB 398.3 kB/s eta 0:00:00
Collecting requests<3,>=2.31.0
  Downloading requests-2.31.0-py3-none-any.whl (62 kB)
                                      62.6/62.6 KB 363.6 kB/s eta 0:00:00
Collecting urllib3<3,>=1.26.17
  Downloading urllib3-2.2.1-py3-none-any.whl (121 kB)
                                     ------ 121.1/121.1 KB 599.6 kB/s eta 0:00:00
Requirement already satisfied: pycryptodomex in /usr/lib/python3/dist-packages
(from yt-dlp) (3.11.0)
Requirement already satisfied: idna<4,>=2.5 in /usr/lib/python3/dist-packages (from
requests<3,>=2.31.0->yt-dlp) (3.3)
Collecting charset-normalizer<4,>=2
  Downloading charset normalizer-3.3.2-cp310-cp310-
manylinux 2 17 x86 64.manylinux2014 x86 64.whl (142 kB)
                                  ______ 142.1/142.1 KB 553.8 kB/s eta 0:00:00
Installing collected packages: websockets, urllib3, mutagen, charset-normalizer,
requests, yt-dlp
 Attempting uninstall: urllib3
    Found existing installation: urllib3 1.26.5
    Not uninstalling urllib3 at /usr/lib/python3/dist-packages, outside environment
/usr
    Can't uninstall 'urllib3'. No files were found to uninstall.
 Attempting uninstall: requests
    Found existing installation: requests 2.25.1
    Not uninstalling requests at /usr/lib/python3/dist-packages, outside
environment /usr
    Can't uninstall 'requests'. No files were found to uninstall.
```

Successfully installed charset-normalizer-3.3.2 mutagen-1.47.0 requests-2.31.0 urllib3-2.2.1 websockets-12.0 yt-dlp-2024.4.9 WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a virtual environment instead: https://pip.pypa.io/warnings/venv

Derived from:

- https://forum.peppermintos.com/index.php?topic=5303.0<sup>[35]</sup>
- https://unix.stackexchange.com/a/328536<sup>[36]</sup>

Alias names for this page:

playlist | playlists | Youtube | YoutubeLists | YoutubeList | Youtube Lists | Youtube List

# 3.1. Dowload your own full YouTube Playlists

You can easily download your own videos of youtube (or even your entire playlsits) through the application <code>youtube-dl</code>. You can install <code>youtube-dl</code> from repositories, even if it won't be updated as frequently as needed sometimes, to get sync with youtube way of working. Therefore, you are encouraged to install through the command-line:

Commands in a terminal window

В

sudo apt update && sudo apt install youtube-dl # install programs from repos if you
don't have them yet
sudo wget https://yt-dl.org/downloads/latest/youtube-dl -0 /usr/local/bin/youtubedl # get latest version from developers site
sudo chmod a+rx /usr/local/bin/youtube-dl # fix permissions of the downloaded file
sudo youtube-dl -U # update your previous youtube-dl version

You can download your own youtube playlist with:

В

```
youtube-dl -cit "https://www.youtube.com/playlist?list=YOURPLAYLISTID" -o
"%(title)s-%(id)s.%(ext)s"
```

Replace **YOURPLAYLISTID** with your own YouTube playlist id (note it's not your youtube channel ID, but the youtube playlist id). You can get it from the url of a video when shown through it's own playlist. That url might look like:

- https://www.youtube.com/watch?v=guFSSJTjyZI&list=<sup>[37]</sup>PLM2ch5TKp0OdtMZeqC0JQw6BwJ1
   9VDcj4&index=2
- https://www.youtube.com/playlist?list=<sup>[38]</sup>PLM2ch5TKp0OdtMZeqC0JQw6BwJ19VDcj4

Therefore, the playlist id is that part after **list=** and before any ampersand (**&**) if any. In this case: **PLM2ch5TKp0OdtMZeqC0JQw6BwJ19VDcj4** 

Therefore, this would be the instruction in the command line:

```
ß
```

```
youtube-dl -cit
"https://www.youtube.com/playlist?list=PLM2ch5TKp00dtMZeqC0JQw6BwJ19VDcj4" -o
"%(title)s-%(id)s.%(ext)s"
```

Derived from:

https://forum.peppermintos.com/index.php?topic=5303.0<sup>[39]</sup>

#### Looking for a GUI?

There is a nice GUI called youtube-dlg, however, it doesn't seem to be updated as frequently as needed to keep it updated to latest youtube-dl changes (and therefore, with youtube changes).

You might try the GUI Download-DLG, in case it still works for you (if did for me months ago, but not currently, so I had to go to the command line to be able to fetch my own video playlist successfully)

ß

#sudo add-apt-repository ppa:nilarimogard/webupd8 # needed once for youtube-dlg sudo apt update && sudo apt install youtube-dlg # install programs from repos if you don't have them yet # refresh youtube-dl from the commands above so that you have the latest version installed

Derived from:

http://www.webupd8.org/2014/03/multi-platform-youtube-dl-gui-youtube.html<sup>[40]</sup>

# 3.2. GNU ddrescue-gui repo

#### See:

 $http://www.ubuntugeek.com/ddrescue-gui-a-python-script-to-make-it-easier-to-use-ddrescue.html^{\tiny[41]}$ 

# 3.3. Tested on

### PC Laptop Coprinus

"Coprinus" is the name of a laptop computer, with a somewhat blackish screencorner, and silverish cover. somewhat similar to the *Coprinus* generus of mushrooms.



#### Hardware

HP Pavilion dv6. i7 (4 real processors, & 4 virtual). 8Gb RAM. 1Tb Hard Drive. 2GB double gaphics card (ATI & internal).

Keyboard: foreign, 104 keys.

Computer bought at "Outlet PC" http://www.outlet-pc.es  $^{[42]}$  . Keyboard stickers bought on ebay for  $4\pounds$  approx.

#### **OS: Dual Boot**

- 1. Ubuntu 16.04 GNU/Linux 64 bits.
- 2. Windows 7 Home

(dual boot from grub)

#### AMD hybrid Graphics card

Note for AMD hybrid graphics users: you can use **fglrx-pxpress** and **AMD Indicator** which are basically the equivalents of the tweaks elsewhere<sup>[43]</sup> for AMD. See the Ubuntu wiki<sup>[44]</sup> for more info.

### Macbookpro Laptop Penguinbookpro

Ubuntu 16.04 LTS + MacOSX 1.5 + Win XP Pro, on a MacBookPro 5.5 laptop. A.k.a.: "Penguinbookpro"



### 3.3.1.1. Add iSight webcam driver

Taken from: http://askubuntu.com/a/118201<sup>[45]</sup>

Install some basic tool to handle the Driver (don't worry about the path to the driver, sinc eyou'll provide the driver itself in a later step). Run this command in a terminal:

В

sudo apt-get install isight-firmware-tools

Skip the prompt to immediately load the driver file.

Ъ

```
cd ~
# Download AppleUSBVideoSupport driver file (e.g.
dl.getdropbox.com/u/332246/AppleUSBVideoSupport) and place it at your home
folder ~
wget http://dl.getdropbox.com/u/332246/AppleUSBVideoSupport
sudo cp AppleUSBVideoSupport /lib/firmware/
sudo ift-extract -a /lib/firmware/AppleUSBVideoSupport
sudo nano /etc/default/acpi-support
```

Find MODULES and make it MODULES="isight\_usb".

ß

lsusb | grep -Po '(?<=:)(\d+)(?=.\*iSight)'</pre>

This outputs the product ID of your specific iSight USB device. Remember this number. Mine is 8507. The default Ubuntu driver seems to be hardcoded for 8300, which is a problem.

ß

sudo nano /etc/udev/rules.d/isight.rules

Add (and be sure to replace the "8507" with your product ID.):

```
ACTION=="add", SYSFS{idVendor}=="05ac", SYSFS{idProduct}=="8507",
RUN+="/usr/lib/udev/ift-load --firmware /lib/firmware/isight.fw"
```

Shutdown/poweroff (not reboot or restart).

Boot again the computer.

If you don't have Cheese yet, install it. Launch cheese program to test the webcam.

ß

ß

sudo apt-get install cheese; cheese

By this time, your webcam should be working nicely. 😀

# 3.4. Optional - Linkat 16.04 standard or lightweight

Tweak your install with Linkat apps (adapted for Catalonian Educational contexts): See:

- http://linkat.xtec.cat/portal\_linkat/wikilinkat/index.php/Lubuntu<sup>[46]</sup>
- http://linkat.xtec.cat/portal\_linkat/wikilinkat/index.php/Wiki\_Linkat\_edu\_16.04<sup>[47]</sup>

This distribution has:

- its own ubuntu repository,
- a set of applications for the learning of kids and teenagers, organized based on age periods.
- specific apps to help freezing desktops, user profiles, etc.
- a minimal version of the distribution, based on Lubuntu (LXDE)
- instructions to install mswindows-like desktop styles to make new users more comfortable with the look and feel of their usual desktop environments they are migrating from.
- apply skeletons of the desktop environment to pre-existing users in the system

Alias names for this page:

16.04 | 1604 | Ubuntu16 | Ubuntu 16 | Ubuntu1604 | php

<sup>[1]</sup> http://www.webupd8.org/2014/02/modify-pdf-files-in-linux-with-master.html

<sup>[2]</sup> http://code-industry.net/free-pdf-editor.php

<sup>[3]</sup> http://www.aptana.com/products/studio3/download

<sup>[4]</sup> http://linuxpitstop.com/install-aptana-studio-3-on-centos-and-ubuntu/

<sup>[5]</sup> http://digitaldisseny.com/es/blog/206-debug-php-aptana-ubuntu

<sup>[6]</sup> http://devcircle.blogspot.com.es/2013/02/enable-xdebug-in-aptana-studio-3x.html

<sup>[7]</sup> https://www.development-cycle.com/2013/09/installing-svn-support-in-aptana-studio-3/

<sup>[8]</sup> http://majadc.com/installing-subversion-plugin-in-aptana-studio-3

<sup>[9]</sup> https://snapcraft.io/phpstorm

<sup>[10]</sup> http://ubuntuforums.org/showthread.php?t=2314905

<sup>[11]</sup> https://www.youtube.com/watch?v=I8xa-PkDhhk

<sup>[12]</sup> http://www.bio.brandeis.edu/~shaikh/linux/suspend.htm

<sup>[13]</sup> https://help.ubuntu.com/community/Boot-Repair

<sup>[14]</sup> http://ubunlog.com/ya-disponible-mate-1-12-1-para-ubuntu-15-10-y-16-04-lts/

<sup>[15]</sup> http://get.adobe.com/reader/otherversions/

<sup>[16]</sup> http://ardownload.adobe.com/pub/adobe/reader/unix/9.x/9.5.5/enu/AdbeRdr9.5.5-1\_i386linux\_enu.deb

<sup>[17]</sup> https://sourceforge.net/projects/portablesigner/

<sup>[18]</sup> https://www.elastic.co/guide/en/elasticsearch/reference/5.0/deb.html#deb-repo

<sup>[19]</sup> https://www.freedesktop.org/software/systemd/man/journalctl.html

<sup>[20]</sup> https://www.elastic.co/guide/en/kibana/5.0/install.html

<sup>[21]</sup> https://www.elastic.co/guide/en/kibana/5.0/deb.html

<sup>[22]</sup> http://wiki.x2go.org/doku.php/doc:de-compat

<sup>[23]</sup> https://www.howtoforge.com/tutorial/multiple-usb-writing-on-linux/

<sup>[24]</sup> https://itsfoss.com/multiple-linux-one-usb/

<sup>[25]</sup> http://multibootusb.org/

<sup>[26]</sup> https://github.com/mbusb/multibootusb/releases/download/v9.2.0/python3-multibootusb\_9.2.0-1\_all.deb

<sup>[27]</sup> https://help.ubuntu.com/community/mkusb

<sup>[28]</sup> https://help.ubuntu.com/community/mkusb/persistent/LXLE

<sup>[29]</sup> https://snapcraft.io/install/playlist-dl/kubuntu#install

<sup>[30]</sup> https://snapcraft.io/playlist-dl

<sup>[31]</sup>https://www.youtube.com/watch?v=guFSSJTjyZI&list=

<sup>[32]</sup> https://www.youtube.com/playlist?list=

<sup>[33]</sup> http://www.webupd8.org/2014/03/multi-platform-youtube-dl-gui-youtube.html

<sup>[34]</sup> https://pip.pypa.io/warnings/venv

<sup>[35]</sup> https://forum.peppermintos.com/index.php?topic=5303.0

<sup>[36]</sup> https://unix.stackexchange.com/a/328536

<sup>[37]</sup> https://www.youtube.com/watch?v=guFSSJTjyZI&list=

<sup>[38]</sup> https://www.youtube.com/playlist?list=

<sup>[39]</sup> https://forum.peppermintos.com/index.php?topic=5303.0

<sup>[40]</sup> http://www.webupd8.org/2014/03/multi-platform-youtube-dl-gui-youtube.html

<sup>[41]</sup> http://www.ubuntugeek.com/ddrescue-gui-a-python-script-to-make-it-easier-to-use-ddrescue.html

<sup>[42]</sup> http://www.outlet-pc.es

<sup>[43]</sup> http://www.webupd8.org/2014/04/10-things-to-do-after-installing-ubuntu.html

<sup>[44]</sup> https://wiki.ubuntu.com/X/Config/HybridGraphics

<sup>[45]</sup> http://askubuntu.com/a/118201

<sup>[46]</sup> http://linkat.xtec.cat/portal\_linkat/wikilinkat/index.php/Lubuntu

<sup>[47]</sup> http://linkat.xtec.cat/portal\_linkat/wikilinkat/index.php/Wiki\_Linkat\_edu\_16.04