Lubuntu Manual Documentation

Release 26.10

Lubuntu Team

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Welcome to the Lubuntu Manual! This is the official reference book for using Lubuntu. This manual covers many topics, such as installation instructions, applications Lubuntu provides, and much more! If you are using a long term support release of the Lubuntu there is a manual version for the long term support hosted at Lubuntu Manual LTS[1]

[1] https://manual.lubuntu.me/lts/

1

What is Lubuntu?

The project's goal is to provide a lightweight yet functional Linux distribution based on a rock-solid Ubuntu base. Lubuntu provides a simple but modern and powerful graphical user interface, and comes with a wide variety of applications so you can browse, email, chat, play, and be productive. Lubuntu was formerly a distribution for low-end hardware, but we have refocused[2].

Members of the team take care of LXQt and other packages that are part of Lubuntu in the Ubuntu archive.

Lubuntu received official recognition as a formal member of the Ubuntu family beginning with Lubuntu 11.10.

[2] https://Lubuntu.me/taking-a-new-direction/

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Contents

2.1 Chapter 1 Installing Lubuntu

This chapter shows you how to download and install Lubuntu on your computer.

2.1.1 Chapter 1.1 Retrieving the image

Before you install Lubuntu, you need to retrieve the correct image. Lubuntu supports AMD64 CPU types also known as 64-bit with a new version every six months (supported for nine months), and every two years being a long term support release (supported for three years). Lubuntu 26.04 LTS is a Long Term Support release supported until 2027. Lubuntu 26.10 is supported until July 2027.

LTS vs. Regular Releases

Lubuntu offers two types of releases. The **Long Term Support** release, or the **LTS**, is the release recommended for most users. It is supported for three years after the release date and does not contain new features. Throughout the course of the cycle, the Ubuntu Kernel Team will deliver **Hardware Enablement** updates, or **HWE** updates, to Lubuntu via Linux kernel updates. Previously, Lubuntu used **LXDE** but since 18.10 it has used **LXQt**. Lubuntu 20.04 was the First **Long Term Support** release which uses the more modern **LXQt** desktop environment.

For users looking to try new features every six months at the expense of the support cycle length, Lubuntu offers **interim releases**, or **regular releases**. These releases, while they are considered stable, are testing grounds for major, new features which will be rolled into the LTS release. Users of the regular releases are typically enthusiasts and somewhat more experienced users looking for a fresher experience.

It is extremely important that if you choose this path, you upgrade to each successive regular release shortly after it comes out. If you are not comfortable doing this, you should consider using the LTS release instead.

About four months after a new LTS release comes and every 6 months thereafter an **LTS Point Release** is released to support new hardware and fewer updates to download with the longer support term of an LTS release. LTS point releases are released every August and February. Each LTS point release is called 24.04.1 is the first point release for the 24.04 point release.

Ways to download the image

Now that the decision of which release type you need is made, you will need to download the image.

There are several ways to download the Lubuntu image:

- HTTP download (from your web browser or terminal).
- BitTorrent (from a BitTorrent client such as Transmission, recommended for Windows and macOS users).
- zsync (from the terminal, recommended for Linux users).

You can also download the image via Jigdo but we will not cover that in this manual.

An easy download page which lists the HTTP and BitTorrent downloads is available on the Lubuntu website's Downloads page[3], however for zsync downloads, you need to visit cdimage.ubuntu.com[4], which has the files listed.

Below you can find more detailed notes on each download method.

Downloading the image via HTTP

We don't recommend using this method as it's often slower, more error prone, and less efficient than the other methods.

After you download the image, you **must** verify it, as this is the most common reason there are problems with a Lubuntu install. There is a helpful page on the Ubuntu Community Help wiki[5] that can guide you in the right direction.

Warning

Downloading via HTTP and not verifying the image can lead to hours of frustration with even the developers quite confused what is happening with your system. With just one bit of the image flipped will cause massive frustration and a failed install.

To verify the image, run this from the command line:

```
sha256sum lubuntu-26.10-desktop-amd64.iso
```

and then carefully check that the output matches

```
fd71fb468451ff2a14914aeb344b530e7eb1d4f7c810f35d855ecbe68330b7eb *lubuntu-26.
↪10-desktop-amd64.iso
```

Downloading the image via BitTorrent

Instead of downloading the image from one server, you can "torrent" the image, or download it from multiple sources instead of just one. This is often faster and saves the bandwidth of the Ubuntu cdimage servers. If you would like to learn more about BitTorrent, take a look at the Wikipedia page on the subject[6].

[3] https://Lubuntu.me/downloads/
[4] http://cdimage.ubuntu.com/lubuntu/
[5] https://ubuntu.com/tutorials/how-to-verify-ubuntu#1-overview
[6] https://en.wikipedia.org/wiki/BitTorrent

In order to torrent the file, you need a BitTorrent client. We recommend Transmission[7], an Open Source BitTorrent client. Since Transmission only provides clients for Linux and macOS, we recommend qbittorrent[8] for Windows users.

The BitTorrent links can be found on our Downloads page or cdimage.ubuntu.com[9], both linked above.

After you have downloaded the link you need, open it in your BitTorrent client. This will download the image. After this is done, we recommend that you leave your BitTorrent client open so you can seed this image for other people, which helps reduce bandwidth costs even further by decentralizing the download location for other users.

Downloading the image via zsync

zsync is a convenient application that will automatically verify the checksum of the image once downloaded. The Lubuntu team uses this to download daily images as it will seamlessly download the delta or difference since the last image was spun.

In order to use zsync, you need to install it. Since this is a Linux-only client, you can get it from your distribution's package repository.

If you are running Debian, Ubuntu, or a distribution based off of either, run the following command in a terminal:

```
sudo apt install zsync
```

Otherwise, there is a snap application you can download of zsync which should function mostly the same and should work on all Linux distributions:

```
sudo snap install zsync
```

To download the image using zsync run

```
https://cdimage.ubuntu.com/lubuntu/releases/26.10/release/lubuntu-26.10-
↪desktop-amd64.iso.zsync
```

You have now downloaded the image successfully. Please continue to Chapter 1.2.

2.1.2 Chapter 1.2 Booting the Image

Now that you have the ISO file, you need to put the image on a media device and boot the image for installation.

This requires additional research on your own, as this varies depending on your hardware.

Choosing the media

In order to boot the image, you need to put it somewhere. You have two choices either

- a DVD
- a USB drive (4 GB or greater)

[7] https://transmissionbt.com/
[8] https://www.qbittorrent.org/download.php
[9] http://cdimage.ubuntu.com/lubuntu/

Writing/burning the Image

Here are some common tools to burn images onto DVDs:

- Brasero[10]
- K3b
- Windows Disc Image Burner
- InfraRecorder

Unfortunately, burning images to USB or DVDs on macOS or Windows is beyond the scope of this manual. The Ubuntu website has several guides on this topic, and we recommend you read them if you plan on doing this.

Guides from the Ubuntu website:

- How to burn a DVD on Ubuntu[11]
- How to burn a DVD on Windows[12]
- How to burn a DVD on macOS[13]

For writing images to USB drives on Linux, we recommend mkusb[14] a tool developed by a Lubuntu team member, or the USB creator shipped with Lubuntu Startup Disk Creator[15].

Writing images to USB drives from macOS or Windows is beyond the scope of this book, but the Ubuntu website also has several guides on this:

- How to create a bootable USB stick on Windows[16]
- How to create a bootable USB stick on macOS[17]

Booting the Image

With your media inserted, reboot your computer. Depending on your hardware configuration, it may boot into the image right away, or you might need to press a key at startup for boot options. This varies but looking for documentation for your hardware will likely provide the answer.

You have now booted the image. Please continue to Chapter 1.3.

2.1.3 Chapter 1.3 Installation

This is a guide through the installation process of Lubuntu.

Starting the installer

At the start of the boot process, a GRUB splash screen will be shown. To install select Try or Install Lubuntu. If you have a problematic graphics card, select Lubuntu (safe graphics) (for example, some NVIDIA cards will need this.) To test your RAM, select Test memory.

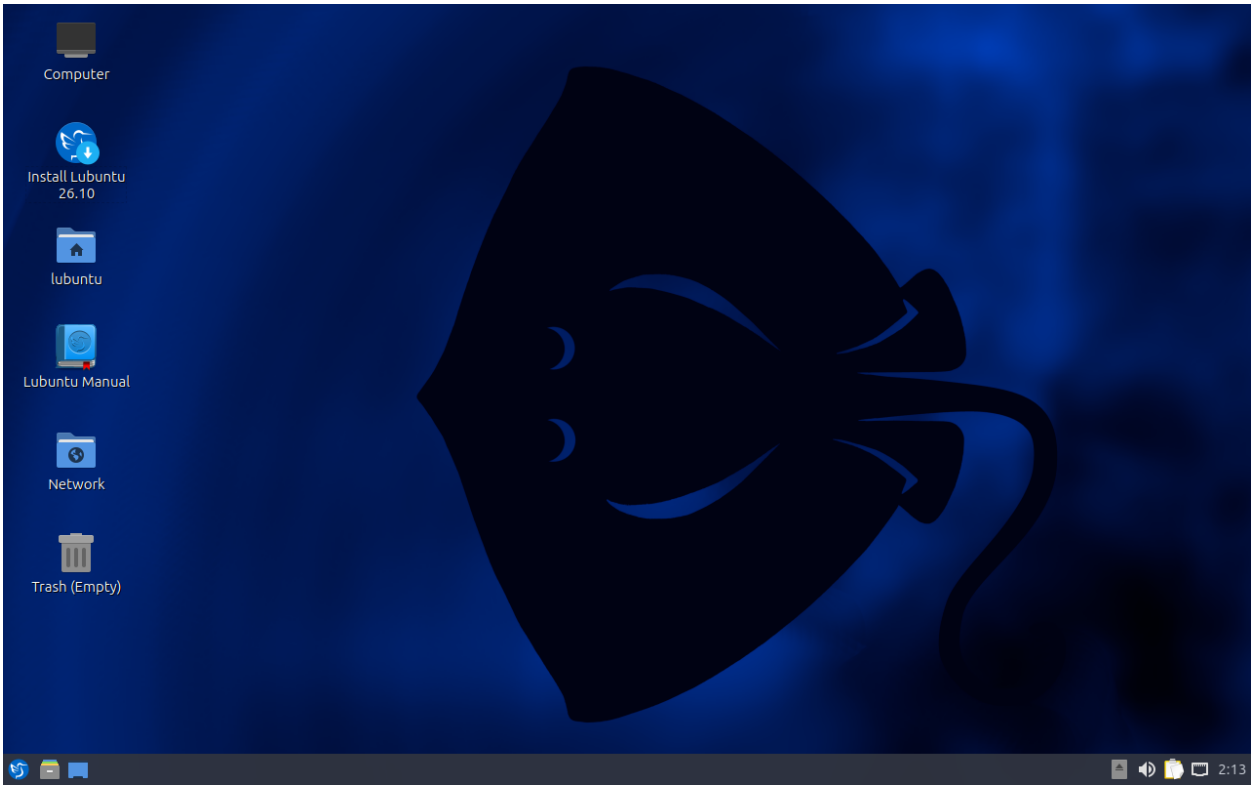
[10] https://wiki.gnome.org/Apps/Brasero/
[11] https://tutorials.ubuntu.com/tutorial/tutorial-burn-a-dvd-on-ubuntu
[12] https://tutorials.ubuntu.com/tutorial/tutorial-burn-a-dvd-on-windows
[13] https://tutorials.ubuntu.com/tutorial/tutorial-burn-a-dvd-on-macos
[14] https://help.ubuntu.com/community/mkusb
[15] https://manual.lubuntu.me/3/3.1/3.1.3/startup-disk-creator.html
[16] https://tutorials.ubuntu.com/tutorial/tutorial-create-a-usb-stick-on-windows
[17] https://tutorials.ubuntu.com/tutorial/tutorial-create-a-usb-stick-on-macos



The next screen will present a choice between Try Lubuntu, which will give you a live session to run Lubuntu as you see fit, or run the installer directly with Install Lubuntu. Above this there is a field to select which language you want to install in the Select Your Language drop down. To get this screen in your language, select one then press the Confirm button. If you need more advanced network settings to install Lubuntu than just connecting to Wi-Fi use the Try Lubuntu choice. If choose Install Lubuntu the installer will start right away and install in your language. At the bottom of your screen if you are connected to the internet automatically like with an Ethernet cable it will say Connected at the bottom. If you are not connected to the internet at the bottom it will say Not Connected.



Once you have booted into the live session, feel free to explore Lubuntu and make sure all your hardware works. Once you are ready to install Lubuntu, double click the icon in the top-left corner of the desktop Install Lubuntu 26.10 or System Tools ▸ Install Lubuntu 26.10.

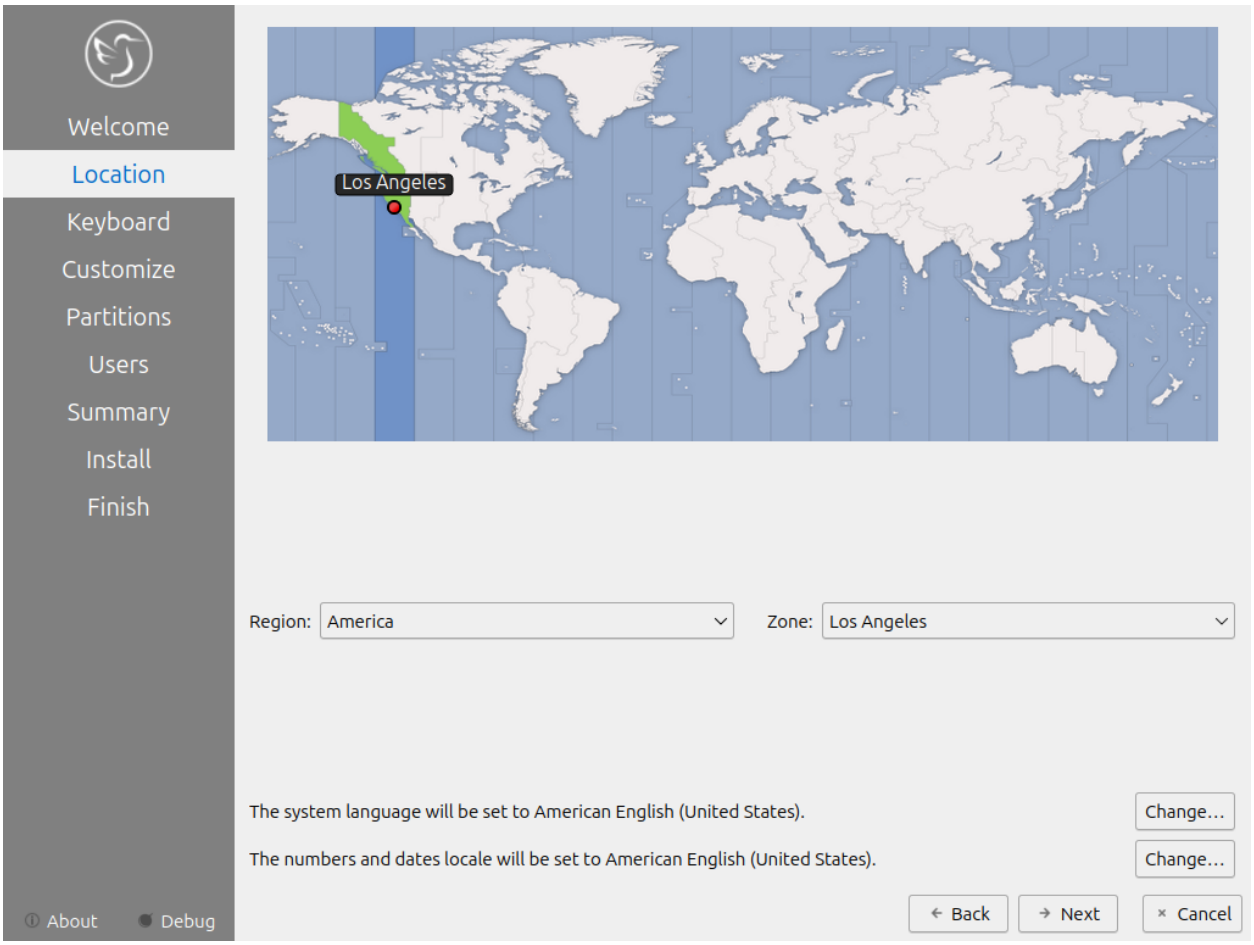


You will be taken to the Lubuntu installer Welcome screen. You can change the installer language in the Language drop down box. After selecting the language the Next button will move you on to the next task. To cancel an installation press the Cancel button. On the left side of the installer is a sidebar that shows what installation step you are on.



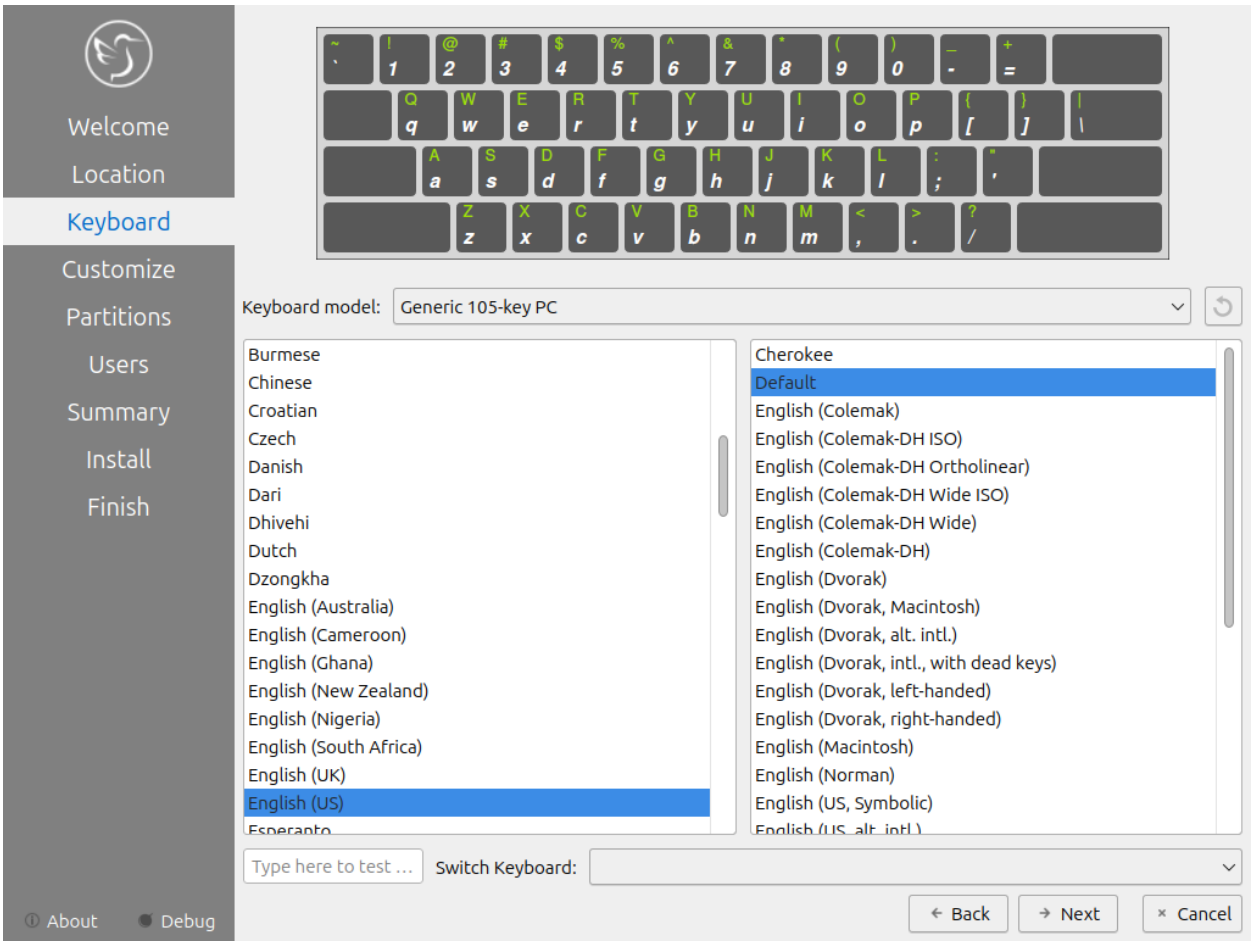
Selecting Your Location

The next screen will show you a map of the world where you can choose your location. Your location will be used to set your time zone and download server. To see what region you have chosen use the Region drop down menu. The Zone field should have a major city with the same time as you. If you want to get to the your time zone manually faster you can type in the name of a big city in the same time zone. Towards the bottom you can to change your system language by pressing the upper Change button. To change the how numbers and dates appear on your system press the lower Change button. To switch certain keys on your keyboard use the Switch Keyboard drop down. To move to the next step once again press the Next button. To move back to selecting your language to change your language press the Back button.



Selecting Keyboard Layout

Next select your keyboard layout, you can check your keyboard matches the keyboard shown picture shown. The Keyboard Model menu lets you choose different variants, the left column lets you change language, and the right column gets different variants. At the bottom you can type to make sure your layout is correct. To test your keyboard is working type in Type here to test your keyboard field. When you have selected your keyboard layout press the Next button to move on. To view a preview of what this keyboard layout looks like look at the top of the window.

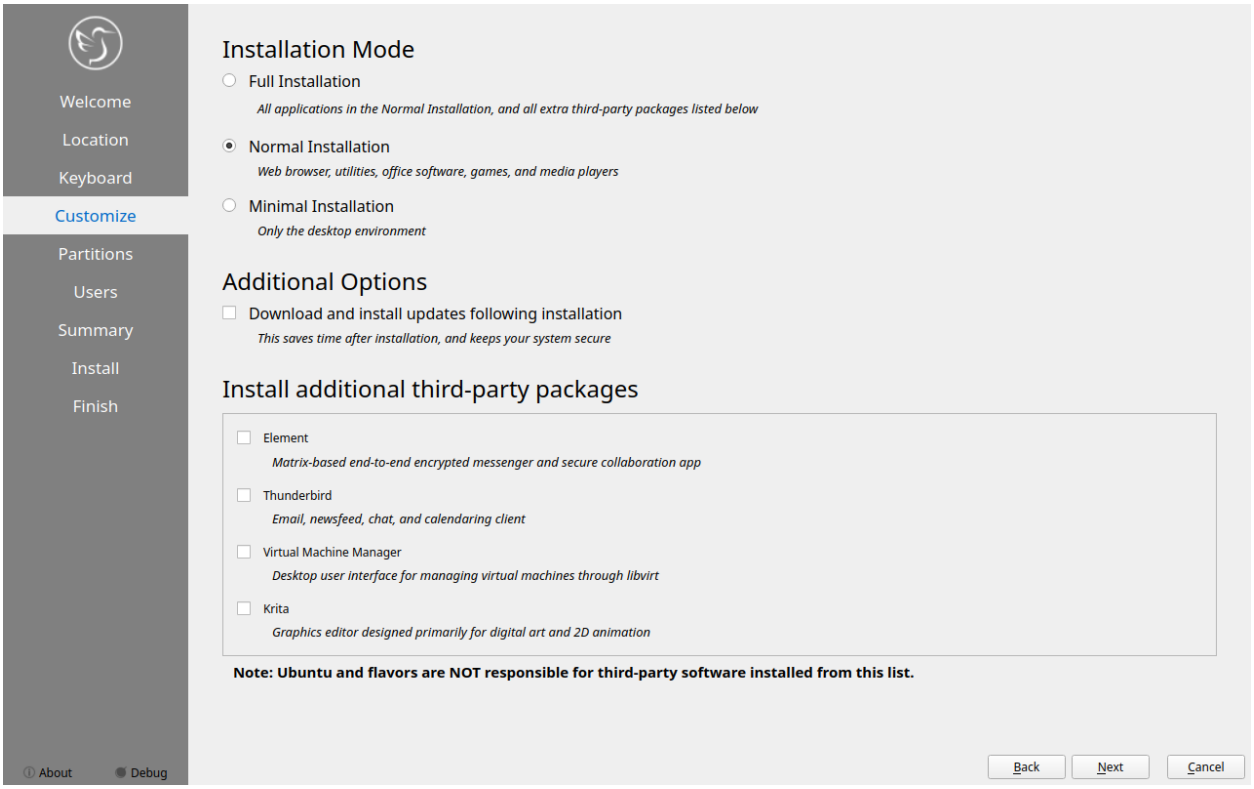


Customize

Next will bring a choice of what applications to install, additional third party drivers, or to install updates with the installation. To choose to install all applications and the list of the third party applications choose Full Installation. To choose the normal applications included in Lubuntu select the Normal Installation button. To choose a minimal installation of just the desktop environment select the Minimal Installation button. To install updates while installing check the Download and install updates following installation checkbox. To install third party and maybe proprietary drivers check the Install third-party software for graphics, WiFi hardware, and additional media formats checkbox.

Pick which particular additional applications you wish to install there are checkboxes for each program under Install additional third party packages. To install Element for encrypted Matrix chat check the Element checkbox. To install the Thunderbird email and calendering client check the Thunderbird checkbox. To install the Virtual Machine Manager for running virtual machines check the Virtual Machine Manager checkbox. To install Krita to make digital art check the Krita checkbox.

To go to the next part of installation press the Next button. To go to selecting your keyboard again press the Back button.

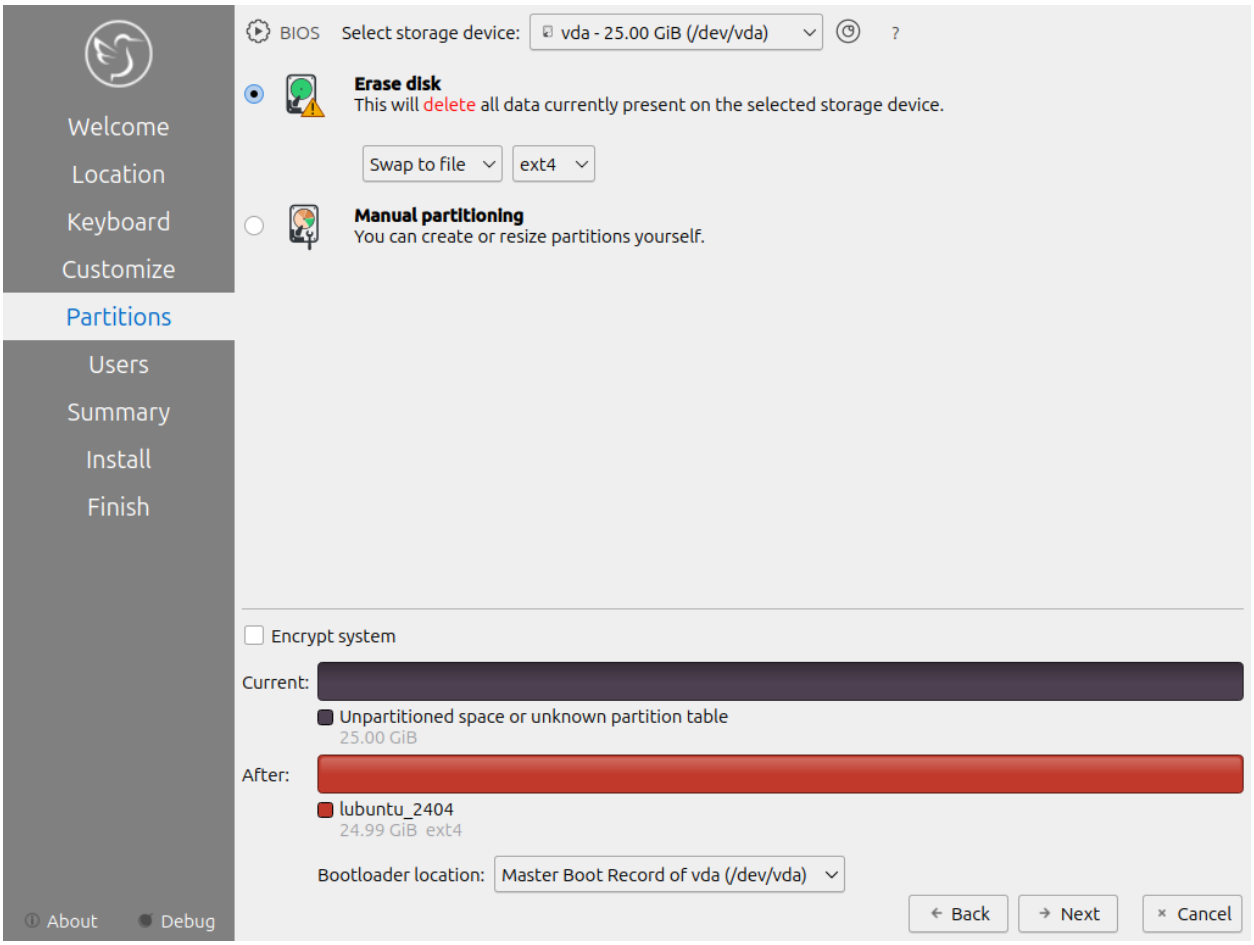


Setting Up Partitions

If all you want is Lubuntu on your machine, you can select the Erase disk button. This will format the disk and **delete all data on the disk**, which is why having your data backed up before this point is extremely important. If you choose to do this you can continue on to user setup. To change the storage device to install Lubuntu on use the Select Storage device drop down menu. To see whether you are installing in uefi or bios mode is shown in the top left corner of this window. To choose to use a swap file under Erase disk keep Swap to file or to not use swap choose No Swap. To choose which filesystem to use the drop down on the right to choose which filesystem you want to use. If you want to encrypt your drive press the Encrypt system checkbox and then you will need to enter the encryption passphrase twice to make sure you have it typed in correctly. It is strongly advised to write down this passphrase and keep it somewhere safe.

Warning

Erasing your entire disk or partition may cause you to lose data so please backup beforehand.



Note

If you had a previous Linux install with a swap partition you will need to unmount the swap. To do this run

```
sudo swapoff -a; sudo swapon /dev/zram0
```

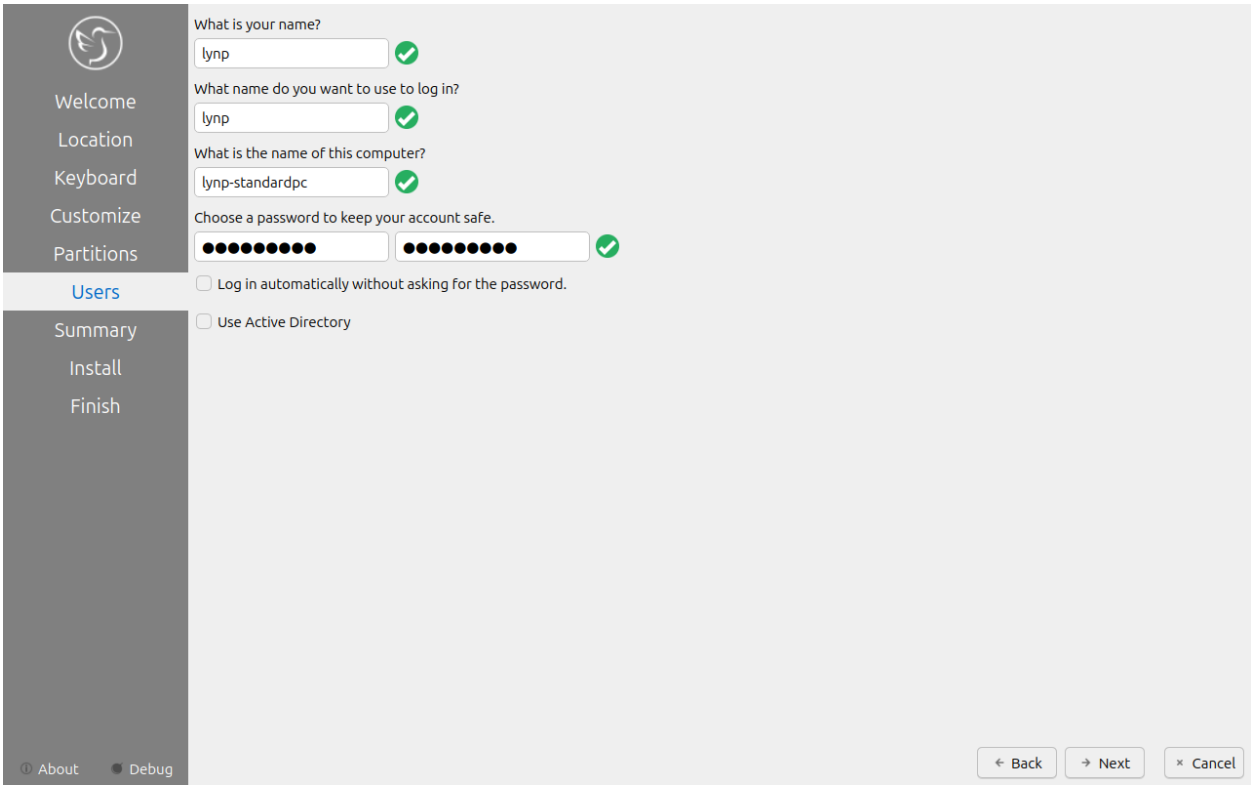
which will unmount them and any swap partitions while still leaving zram enabled. This will not work if you have data partition mounted open PCManFM-Qt and press the upward pointed arrow on each partition in the Places sidebar to unmount all data partitions.

To move back to Selecting your keyboard layout press the Back button. To advance to the setting up users press the Next button.

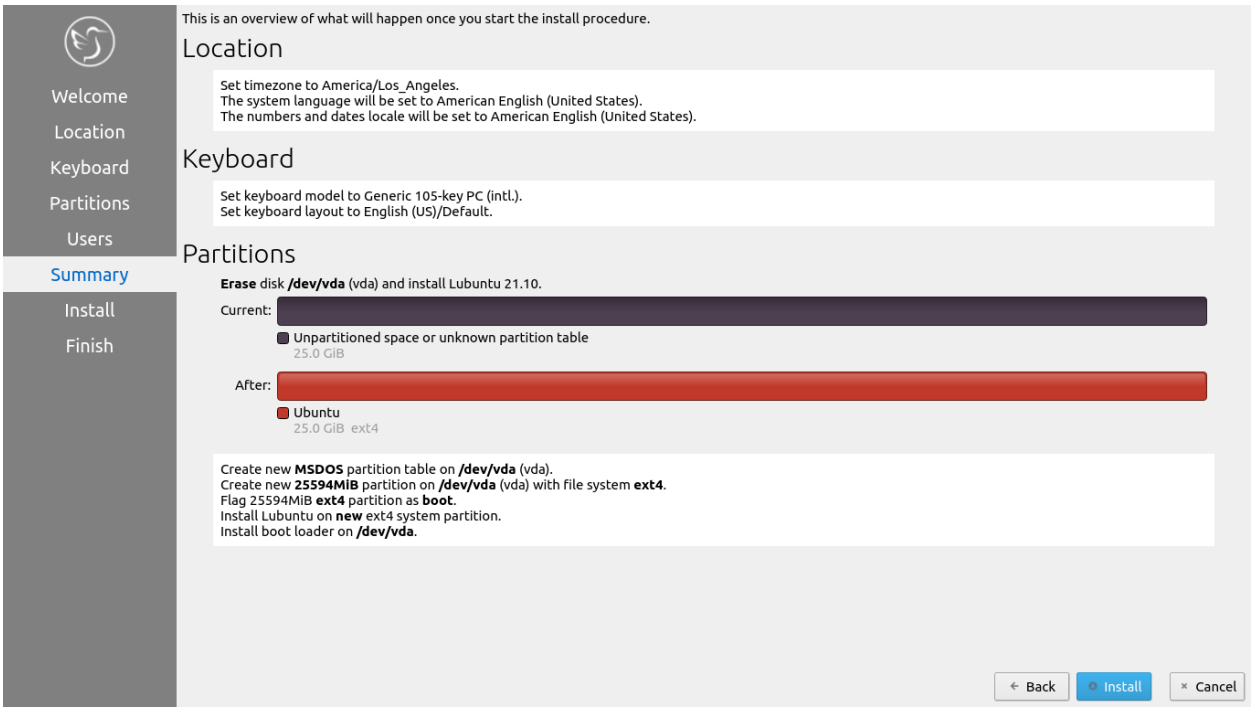
User Setup

The user setup section creates a user profile, consisting of typing your name into the What is your name? field. Next type your username in the What name do you want to use to log in?. Put what you want your hostname of your computer to be in the what is the name of this computer? field. The last thing you need to enter is your password in the Choose a password to keep your account safe. Enter your password twice to make sure you have not mistyped it. To the right of your password will have an x if your passwords don't match. If you have a weak password to the right will have an orange triangle saying why your password

is weak. Passwords less than 8 characters, containing a sequence like 1234, or based off a simple dictionary word like testing1 are considered weak. If a name can actually be used as a username or hostname a green checkmark will appear to the right of it if you cannot a red x will appear. Pressing the Next button will give you a summary screen, showing you the settings before the install begins. Once you have checked the summary click the Install button to begin the installation.

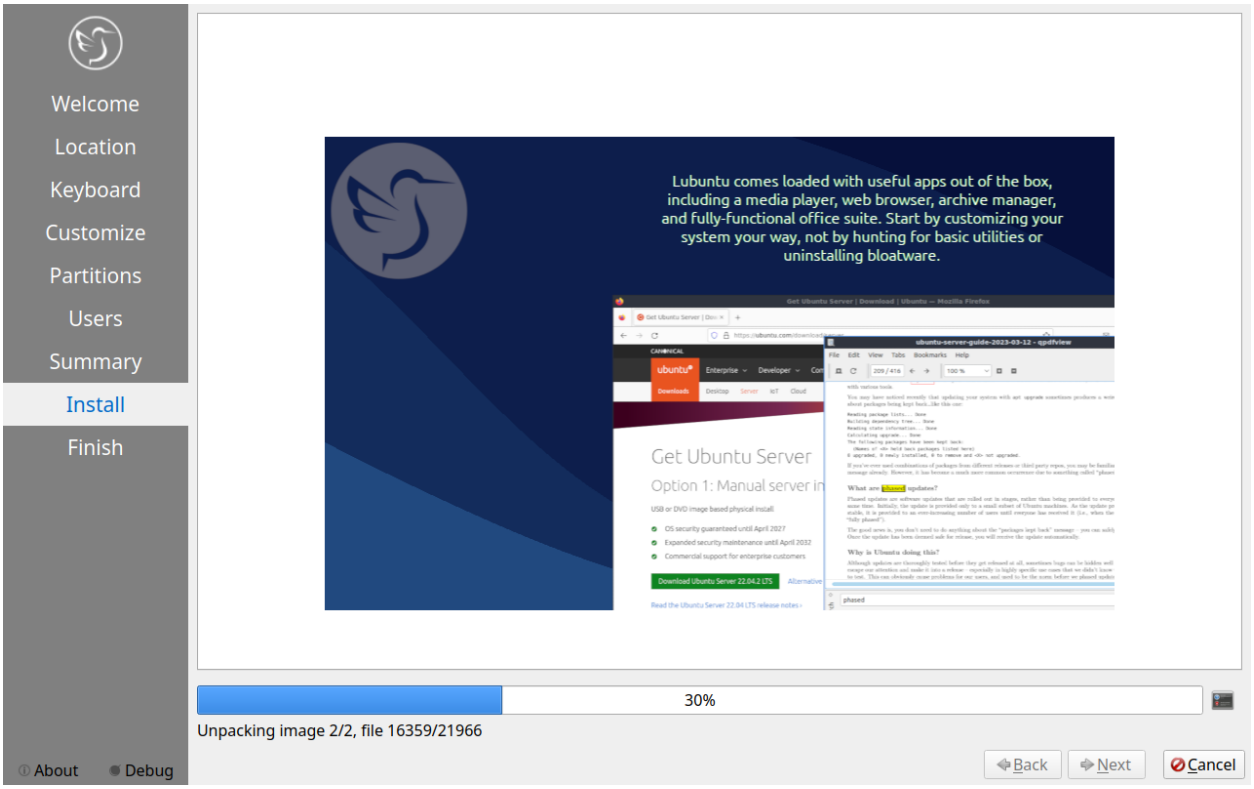


The summary screen shows what settings will be installed and you can double check everything is how you want it. After pressing the Install button a dialog will pop up to confirm installation. To actually install press the Install now button. To not start installing and go back press the Go back button.



The Install

The Lubuntu installer provides some useful information while the installer is running. On the bottom of the window is a progress bar. On the right end of the progress bar is the percentage of the installation complete. To see command line output of the install press the Toggle log button. Once Lubuntu is installed you have a checkbox Reboot now after your Lubuntu is installed and is now finished. There is a slideshow while you install and to move to the next slide left click and to move to the previous slide right click.

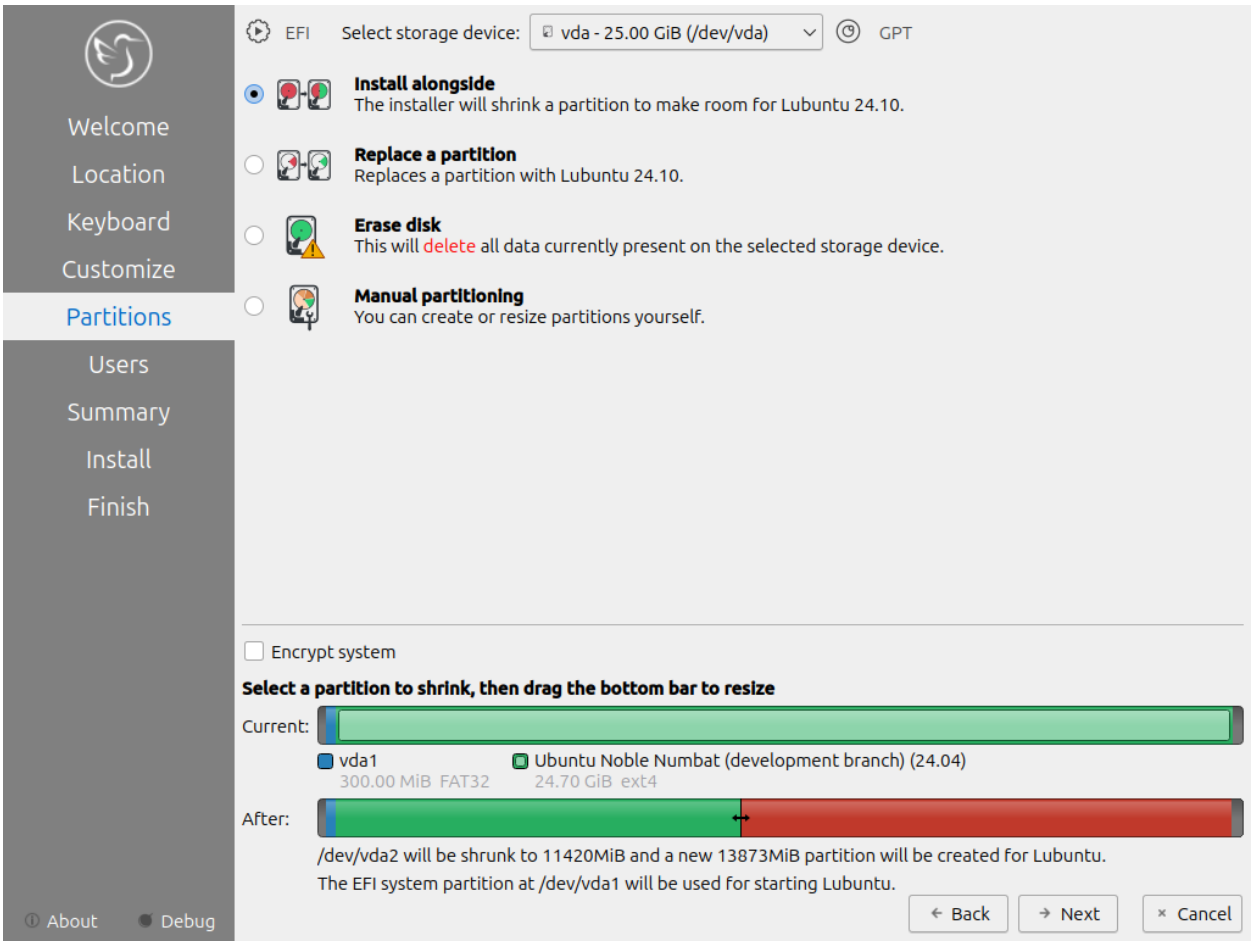


Rebooting into the finished install

After the install is finished you will need to reboot your system into your new install. If you want to continue using the live system but end the installer uncheck the Reboot now checkbox. To close the installer press the Done button. After this your computer will reboot and you should remove your install media.

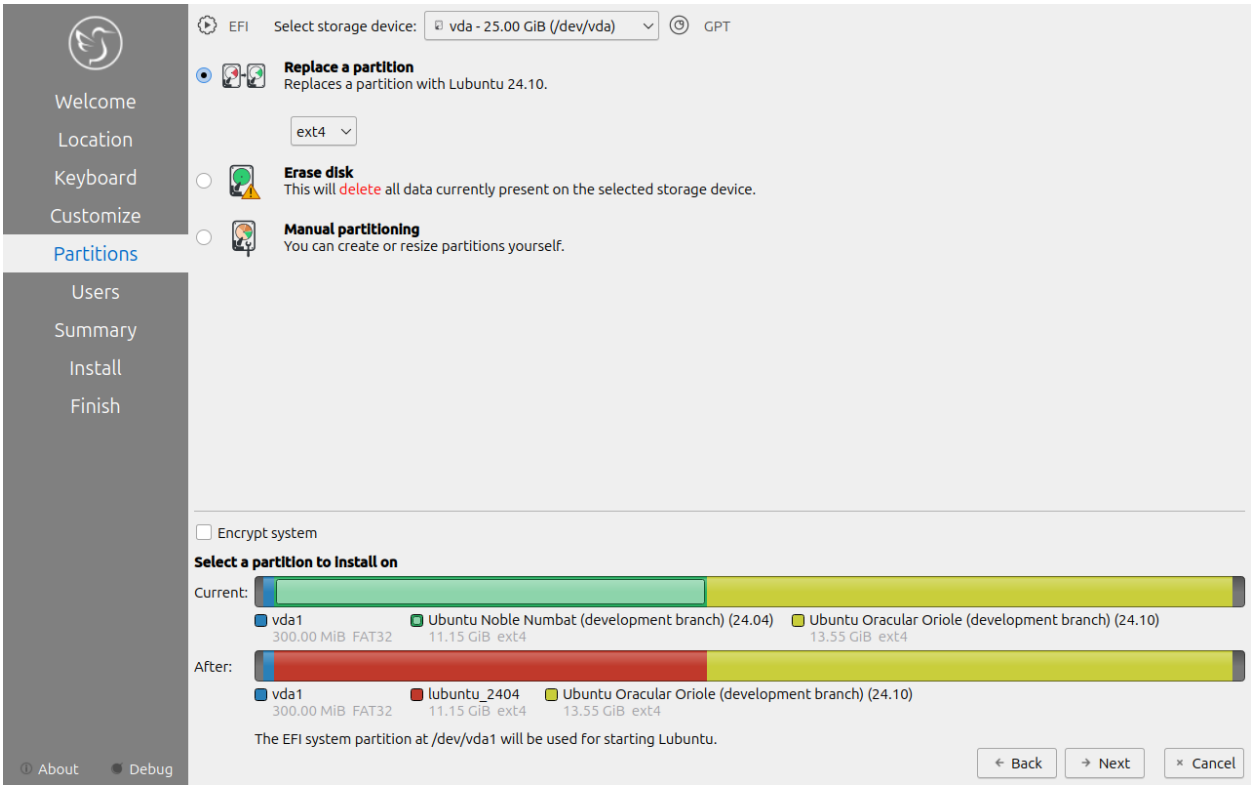
Install Alongside

To choose to shrink your current partition to install Lubuntu alongside a currently existing install so you can boot into both of them select Install alongside. The Current bar graph shows how much space is currently taken up by a partition. The After section shows how much space will be used by both installs. To change how much space each partition will end up using slide the center back and forth to distribute space between both installs. If you want to encrypt your install check the Encrypt system checkbox.



Replace a Partition

To replace a partition select Replace a partition on the Partitions tab. To select which filesystem to install Lubuntu on choose on the drop down under Replace a partition. To select which drive to install on choose in the Select storage device menu. To encrypt your Lubuntu install check the Encrypt system checkbox. To look at your current layout of partitions you have look at the Current bar graph. To see what each partition is listed below the graph. To select which partition to replace left click on the partition on the Current graph. To see the what partitions will be used after the install read the After field. To see the size and filesystem of all partitions view the After bar graph. To see where Lubuntu will boot from is also on the bottom. To continue installing press Next.



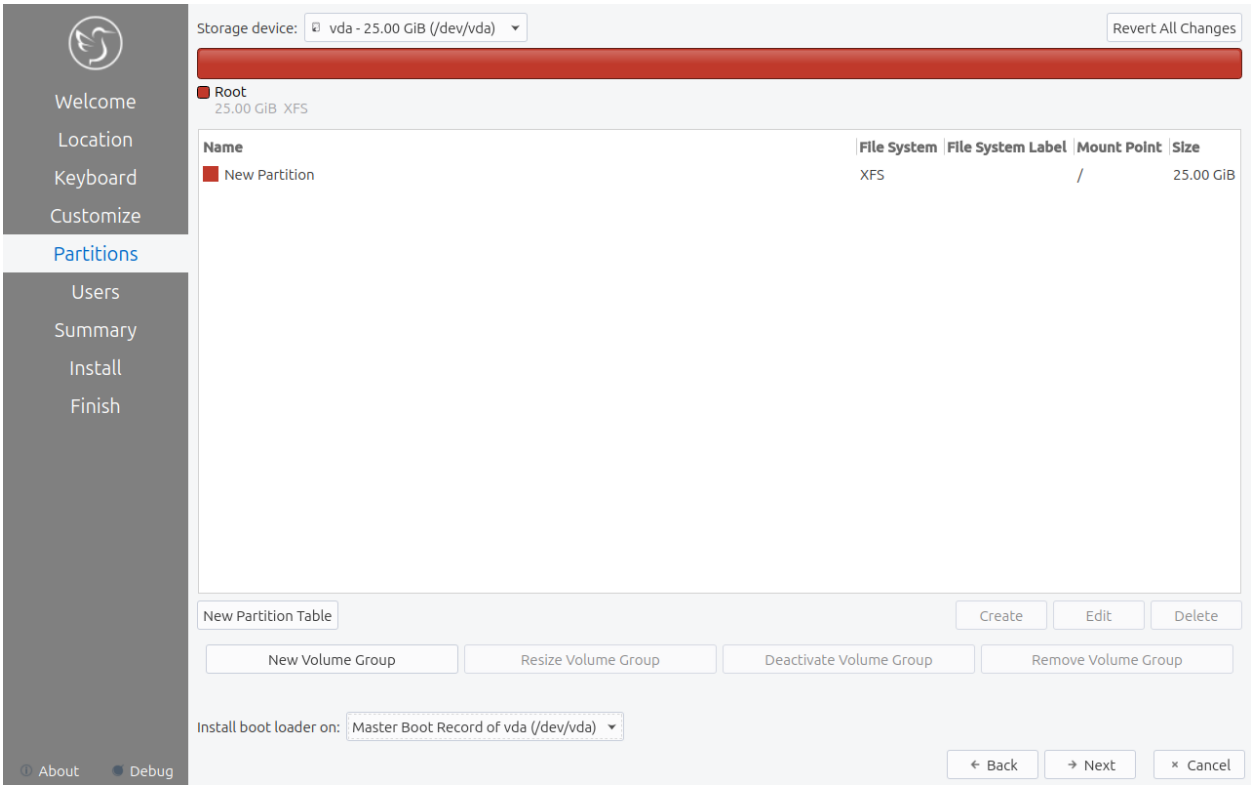
Manual Partitioning

Warning

Trying to use nonlinux filesystems such as NTFS or FAT as your root filesystem will result in a broken system.

If you wish to manual set up partitions, as an advanced option you will have to choose which file-system you want. A file-system controls how your files are accessed at lower levels on the disk. If you are booting your computer in UEFI mode a more modern firmware compared to BIOS you will need to create an EFI system partition (see efi system partition Wikipedia[18] for more detail). To create this partition you will need a FAT32 file-system with the ESP flag to be mounted at /boot/efi/ under the mount point. You will also need a root (/) file-system, several file-systems included for Lubuntu are Ext4, XFS, and Btrfs. Lubuntu 22.04 has bug with installing BTRFS and This guide on Lubuntu discourse[19]

[18] https://en.wikipedia.org/wiki/EFI_System_partition
[19] https://discourse.lubuntu.me/t/getting-lubuntu-22-04-to-install-with-btrfs/3273/



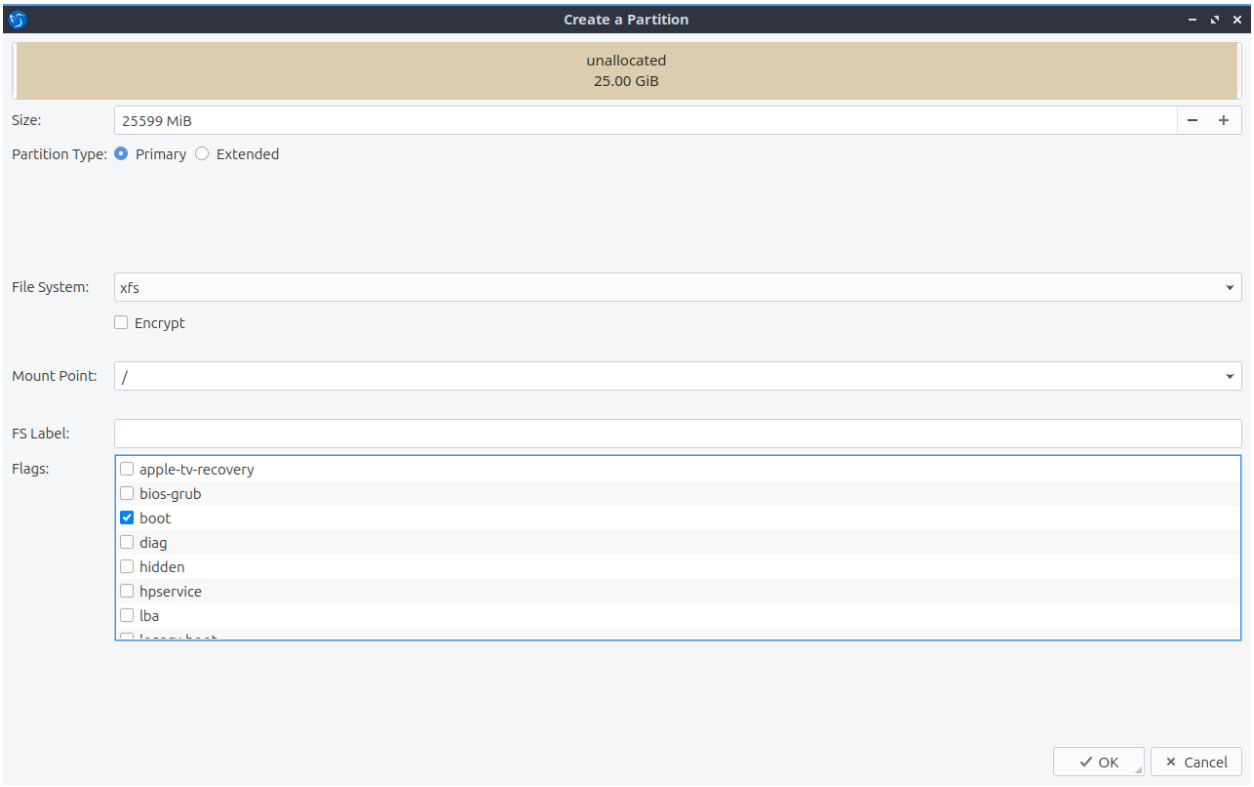
Warning

Creating a new partition table will erase all data on the drive and deleting a partition will delete all data on the partition.

If you have a new hard disk or solid state drive press the New Partition table button but this will delete the whole disc if you have any data on it. After pressing this button you will get a dialog saying what kind of partition table to use. The Master Boot Record button will create an old partition table but will only allow 4 primary partitions and partitions up to 2 Terabytes. The GUID Partition Table button works for large discs but may not be recognized by legacy operating systems. To get back to your main partitioning window press the OK button.

To change what disk you are partitioning use the Storage device drop down menu.

You can create partition by clicking the Create button which will bring up a dialog. The file system field is a drop down menu, select which file-system you want. You also need to select where you want to mount the partition in the Mount Point drop down menu. To change how big to make the partition change the Size field. To change the size or type of a partition after initially creating it press the Edit button. To delete a partition press the Delete button. You will need at least one root (/) partition and if you are booting an EFI system you will also need a /boot/efi mounted partition. Another common option is to have all your data on its own partition, which can even be on its own separate physical disk this can be mounted at /home. If you want to encrypt your your filesystem check the Encrypt checkbox. Then two fields will appear to get write type your encryption passphrase twice to confirm it. To add a label for this partition enter it into the FS Label field.



Lubuntu's bootloader grub does not support creating an encrypted / partition without a separate unencrypted /boot partition. If you create a separate /home partition will be where you save all your user documents photos and videos so make sure if you create one it has enough space for your personal files. All partitions created do not be on the same drive so you can for example put /home on its own drive to give you lots of space and then put / where all of your system and programs will be launched from. A good example of a sensible way to use manual partitioning is if you have a solid state disk and a hard drive in a computer, put the / partition on the solid state drive for faster program launches and /home on the hard drive for more space for your files.

To go back on all your changes to the previous state press the Revert All Changes button in the top right. To change what device your computer will boot off of you will need to use the Install boot loader on drop down menu to select which disc to boot off of.

In the center of the manual partitioning window shows you what name of the partition is. What type of filesystem is displayed in the File System column. To see where your partition is mounted are shown in the Mount Point column. The size of the system is shown in the Size Column.

The top of the manual partitioning window shows a visual bar showing size of your partitions on top. Below it shows each partition on your drive with the color it is in the bar graph and the size of the partition.

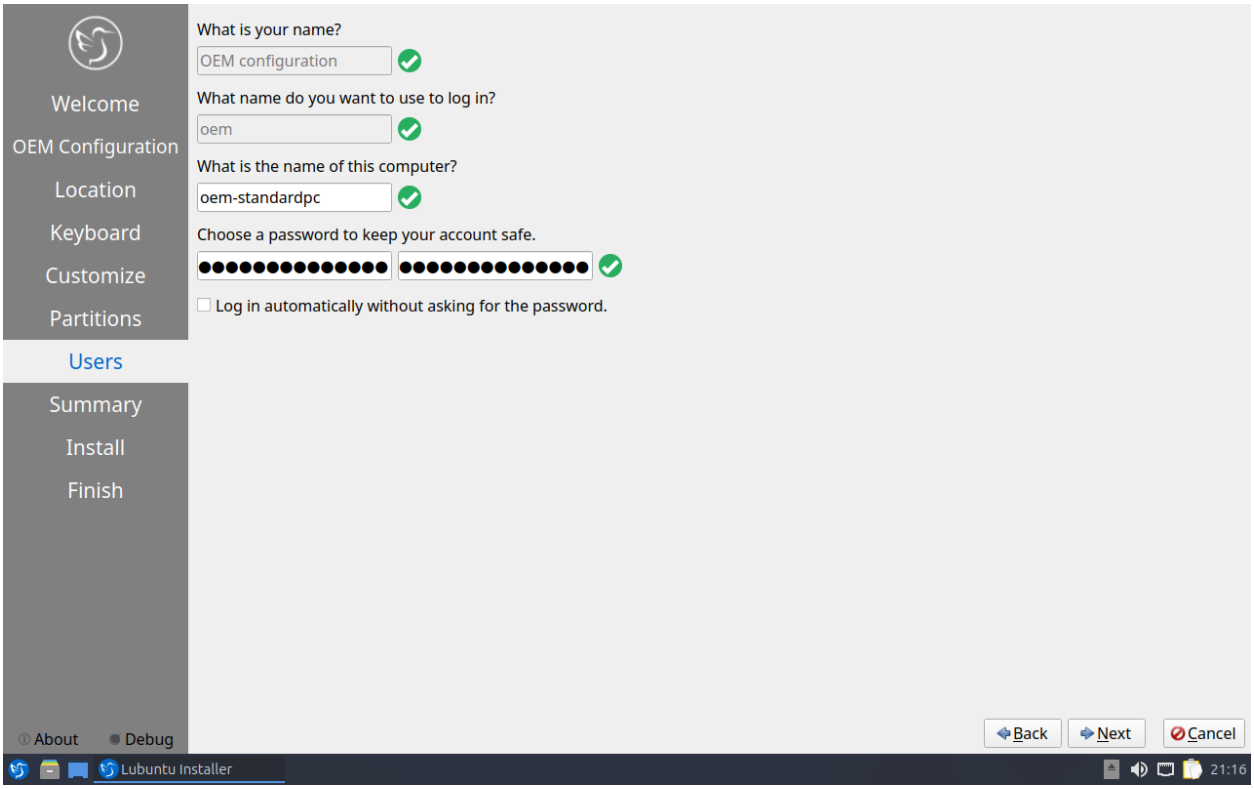
OEM Installs

To install Lubuntu in an OEM mode for distributing to someone else on the grub boot splash select OEM install (for manufacturers) or from the panel menu System Tools ▸ Install Lubuntu 24.10 (OEM mode). Then you will be asked if you are sure you want to install in OEM mode and to actually install in OEM mode press the Yes button. Then the installer will say have a welcome screen that will say it is in OEM mode will show up. To change what language to

use for installation use the drop down bar under OEM installation mode. To move to the next step of installation press the Next button.



To set a name for what to call this preinstalled system you are installing to ship to someone enter that in the Batch field. To move to the next part press Next To go back to welcome press the Back button. Then the Location, Keyboard, Customize, and Partitions sections are the same as a normal installation. Then for the OEM install you will not be able to make a username as the end user you ship to will use that. To choose a hostname enter in the What is the name of this computer? field. Then you will enter a password twice with Choose a Password to keep your account safe field. To have your OEM install log in automatically check the Log in automatically without asking for the password checkbox. To move to the next part of installation press the Next button.



Then a summary screen shows what settings are for your users. To actually begin installing press the Install button and then to confirm that this is what you want press the Install Now button.

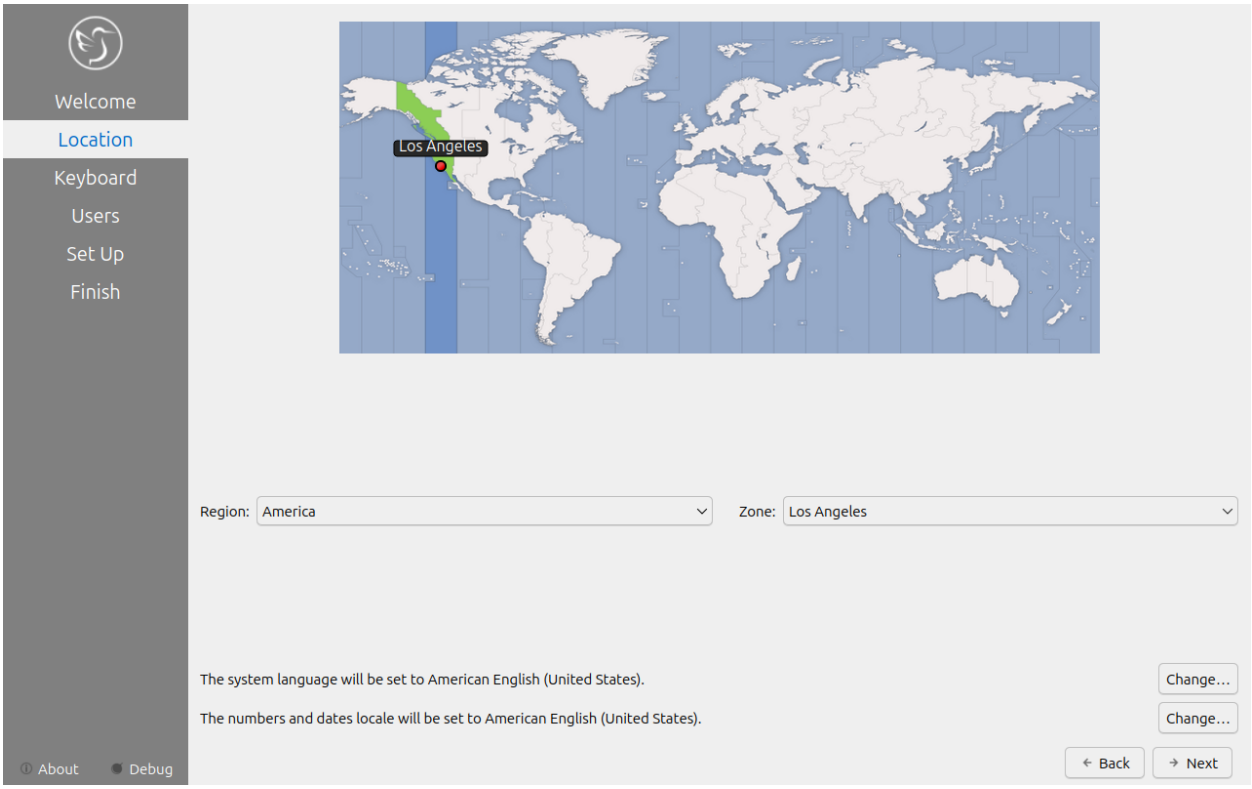
OEM User Setup

To setup your user setup for an OEM preinstalled system System Tools ▸ Finish OEM preparation. Then you will be asked if you want to finish OEM setup and then a wizard will be run next boot. Then press Yes to confirm this. Then you will need to reboot to run the user setup.

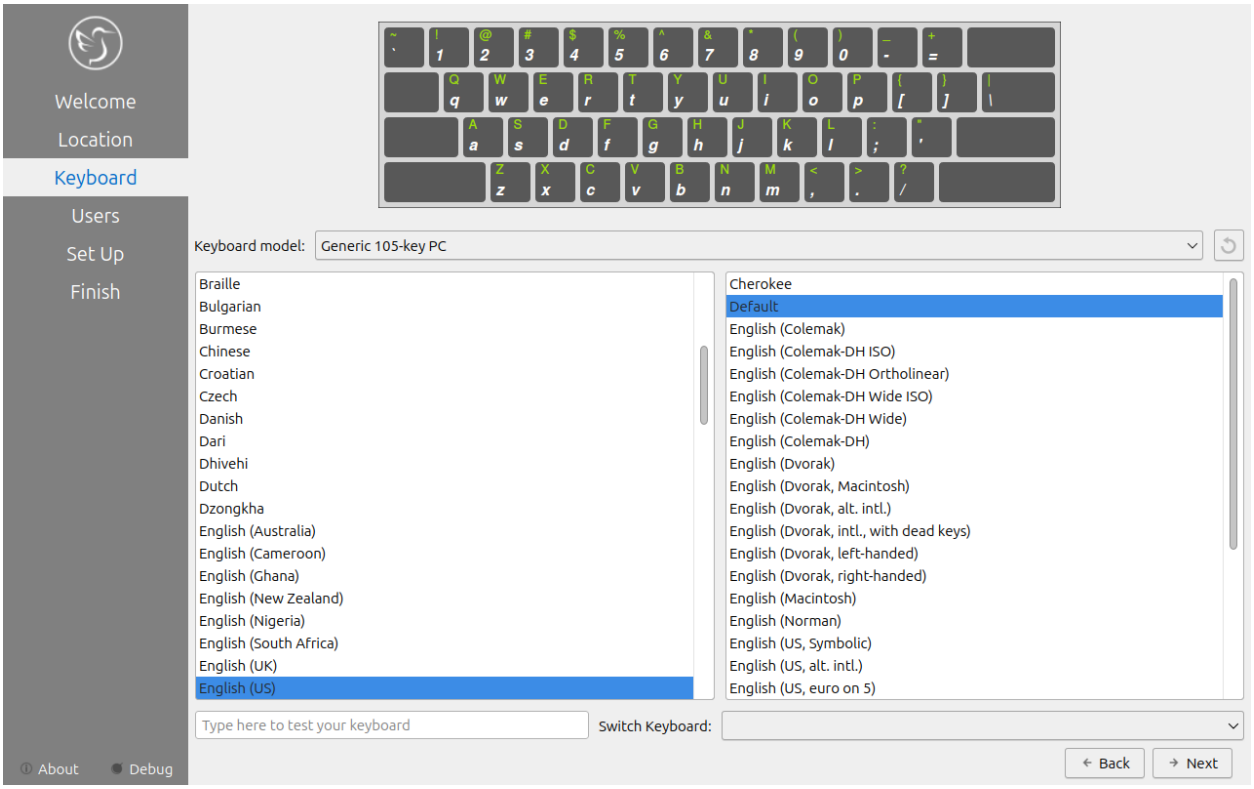
The first section of user setup will ask you what language to continue in at the very bottom. To go to the next part of Lubuntu setup press the Next button.



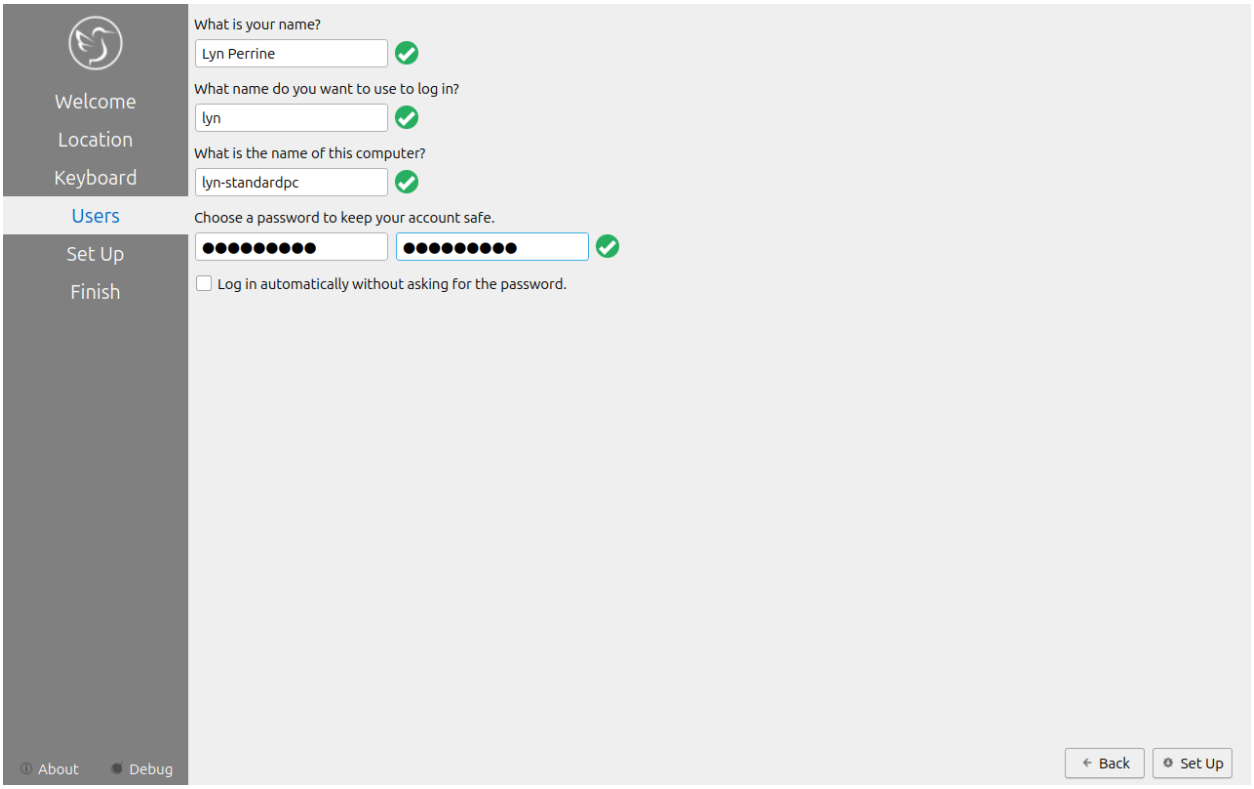
Next you will need to select your time zone in the Region and Zone fields with a world map above them to tell you what time it is set to. To set what language the system will boot into press the Change button next to The system language will be set to field. To change how date and number formatting press the Change button next to The numbers and dates locale will be set to field. To go to the next part of Lubuntu setup press the Next button.



The next part of setup will have be selecting your keyboard layout. To change the what kind of keyboard model you are using change the Keyboard model field. The left column sets the language of your keyboard while the right column selects a layout for that keyboard. In the bottom left hand corner you type to make sure what you think you are typing matches what is being input. To set a key to change keyboard layout select one from the Switch keyboard field. To move on to setup your users press the Next button.



Next is to set up your users for your computer. To then enter your name in the What is your name field. To enter your username in the login field. Enter your hostname in What is the name of your computer. Then type your password twice to make sure you didn't mistype in in the fields under Choose a password to keep your account safe field. To login automatically check the Log in automatically without asking for the password checkbox.



Next step to finalize creating users and keyboard and language settings press the Set Up button. At this point you will be asked to confirm because you cannot undo after this step. To continue with all your settings press the Set Up Now. Then the users will set up with a slideshow and you will then reboot and then can login to reboot and use Lubuntu is ready to use.

2.2 Chapter 2 Applications

This chapter documents the applications in Lubuntu.

2.2.1 Chapter 2.1 Internet Applications

This chapter documents how to use webbrowsers, IRC, and torrent clients.

Chapter 2.1.1: Firefox

Description

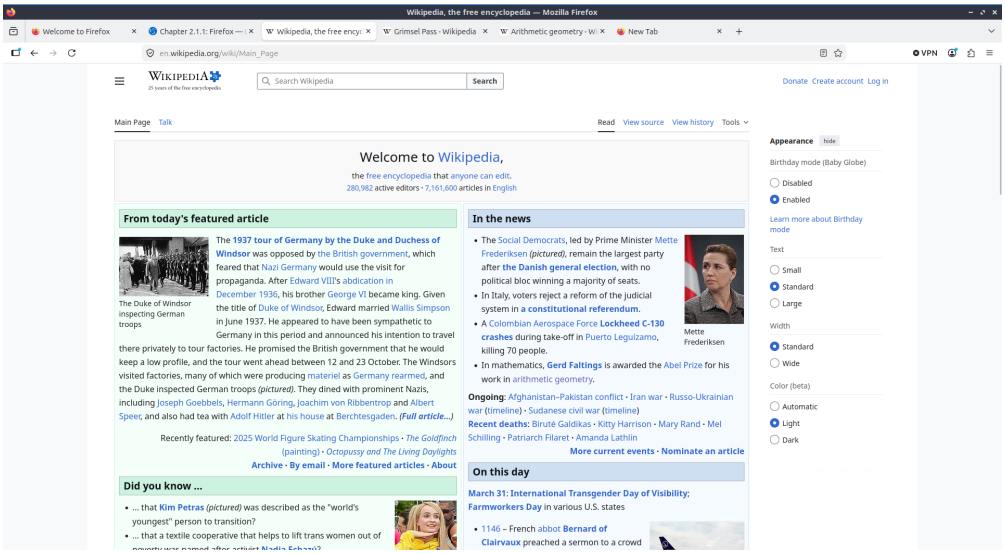
Firefox is a highly-rated, and secure web browser that is installed by default in Ubuntu. It is a decent choice if one wants a secure, fast, yet relatively less resource-heavy browser.

Firefox has features of other web browsers and its own ones, such as:

- Tabbed browsing
- Scroll through tabs
- Great plugins and add-ons
- Favorites, bookmarks, pocket

- Firefox account sync
- Master password
- UI customization with themes and toolbars
- Advanced customization with about:config
- Open source

Screenshot



Usage

To open a new tab in Firefox press the + button on the right of the tab bar, right click the tab bar New tab, or press `Control + t`. To close a tab press the button with an x on the right side of the tab or press `Control +W`. To Open a new window in browsing press `Control +N`. To view your browsing history press the hamburger menu Library ▸ History or press `Control +H`. When you have the history sidebar you can search through your history where it says Search History. To change how to sort your history click the View label and select how you want to search your history. To view your downloaded files press the button that looks like three stacked books with a fourth leaning over ▸ Downloads.

To click on a hyperlink left click on it. To open a link in a new tab right click on the link Open Link in New Tab. To open a link in a new window right click and select Open Link in New Window. To open a link in a private session right click Open Link in New Private Window. To copy the link you have right click and select Copy Link.

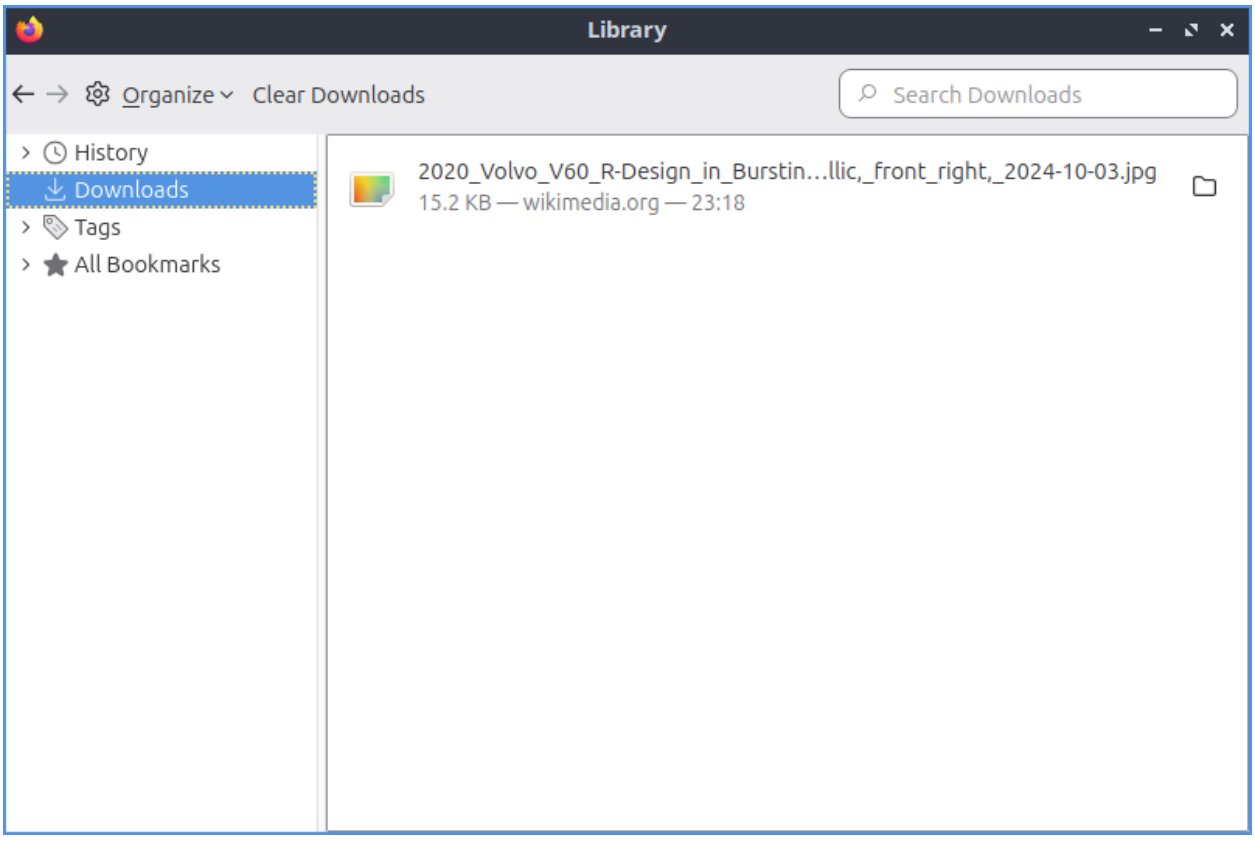
To go back to a previous page in Firefox press the button pointing to the left or press `Alt + Left arrow`. To open the page you were previously browsing in a new tab middle click the back button. To go forward to a page you have visited before but have now gone back from press the button with the arrow pointing to the right or `Alt + Right arrow`. Middle click on the forward button to open the page you went back from in a new tab. To download a file directly to your local disk right click Save Link As file as and then you will get a dialog box to show where to save it. To save an image to your computer right click the image and select Save Image As.

When you are downloading something a circle will show up showing progress of the download. The more shown in blue the more of the file has been downloaded. To view what you are

downloading press the left click the circled graph showing what you have downloaded. Then you can see how much data has been downloaded, time remaining to download, and how big a file it is and a bar graph of the status of different files downloading. To pause downloading a file right click and select Pause. To then continue downloading again right click and select Resume. To cancel the download press the X button on the right hand side of this menu. When the download if finished it will show you a blue arrow pointing down that is underlined. After you have downloaded something it will return to gray.

To open a window with all of your downloads on it press `Control+Shift+Y`. To open PCManFM-Qt in the folder where you downloaded things right click and select on the download and select Open Containing Folder. To share a link with someone else for something you downloaded right click on the downloaded content right click and select Copy Download Link. To copy a link without site tracking in the URL right click and select Copy Without Site Tracking.

To open PCManFM-Qt in the folder where you downloaded things right click and select on the download and select Open Containing Folder. To open a downloaded file double click on it. To not have a download show in your history right click on it and select Remove from History. To clear all your download history right click and select Clear Downloads or press the Clear Downloads button at the top. To search through your downloads in the top right enter your search into Search Downloads.



To have a list of all of your tabs press the downward pointing arrowhead button. To close a tab from this list press the x button. To restore your session when first opening a Firefox press Restore Session or press the downward pointing arrow and select Restore Session. To switch the view of your tabs if you have more than on the screen press the right ward pointed arrowhead to move the visible part of the tab bar to the right. To move the visible part of the tab bar to the left press the leftward pointed arrowhead. To move a tab to where you want it left click the tab and drag it to the position you want the tab. To search through all your tabs

you can click on the downward pointed arrow and select Search Tabs.

To view extensions to Firefox press the puzzle piece button in the top right corner, press `Control + shift +A`, Hamburger menu ▸ Add on and themes, or type about:addons into the address bar. To view extensions use the Extensions tab. To change your themes on Firefox left click the Themes tab. To have settings for plugins left click on the Plugins tab. To change settins with your langauges use the Languages tab.

To scroll down using the keyboard press `Page Down`. To scroll up the page with the keyboard press `Page Up`. To scroll all the way back up to the top press the `Home` key. To move all the way to the bottom of the page press the `End` key.

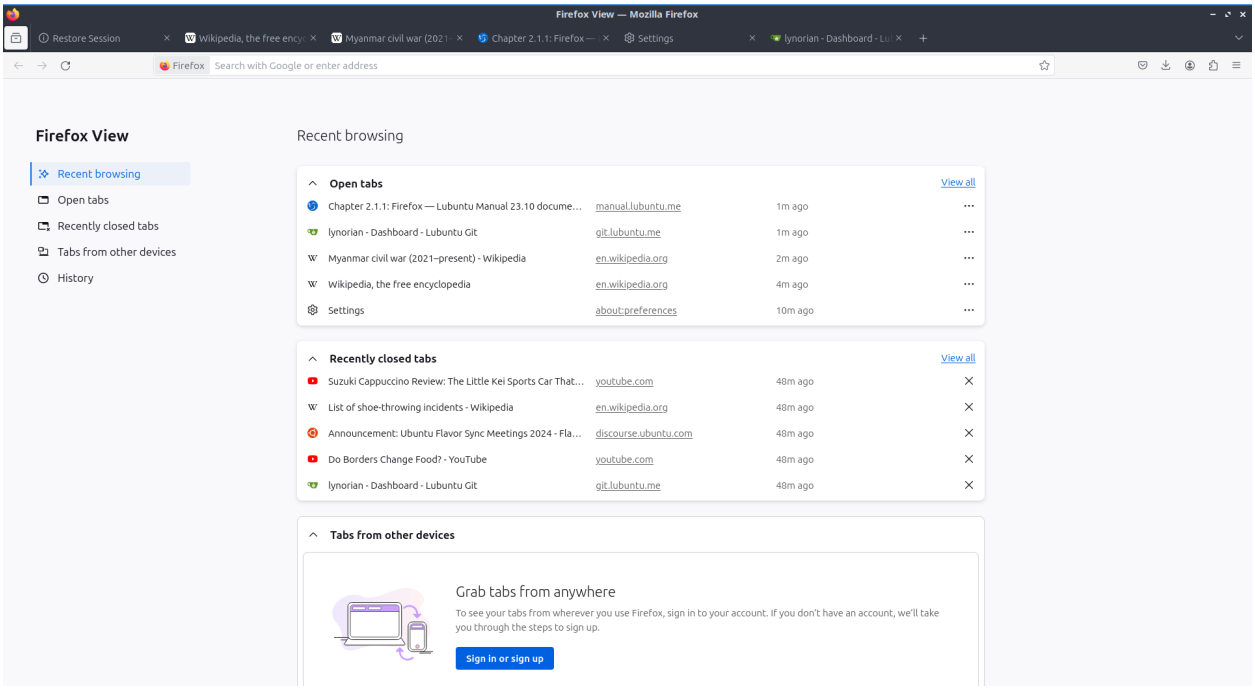
To go to a specific URL in the address bar you can type it in the main bar in the middle. If you have a URL in your clipboard you can paste it here or into the address bar right click Paste & Go. Or if you right click into the clipboard and not immediately go to the page and type in a sub page right click Paste and then type to go a specific sub page of the same site and then press `Enter` to go to the page. To select the entire text of the address bar press `Control+A` or right click and Select All. If you press `F6` the cursor will select the address bar. If you want to search through the tabs you have open type % and then what you want to type in the address bar.

To bookmark a page press `Control +D`, press the star button to the right of the address bar, right click on the tab and select Bookmark Tab, or Press the button with three horizontal lines and select Bookmarks ▸ Bookmark Current tab or right click on the tab and select Bookmark Tab. To access the bookmark again press that looks like three vertical lines and a slanted one and Bookmarks ▸ Your Bookmark. If you want a toolbar with your bookmarks on it right click on the address bar and select Bookmarks Toolbar or the three horizontal lines button Bookmarks ▸ Show bookmark toolbar.

To manage your bookmarks press `Control+Shift+O` or three horizontal bars Bookmarks ▸Manage Bookmarks. To switch to different categories of bookmarks on the left hand side to switch categories. To search through your bookmarks type in Search Bookmarks box in the top right hand corner. To open a bookmark in this park double click on it or right click and select Open. To open a bookmark in a new tab right click on it and select Open in New Tab. To delete a bookmark right click on it and select Delete Bookmark. To rename your bookmark something you will remember use the Name field. To change where a bookmark points to change the URL field. To add tags to your bookmark type them in the Tags field.

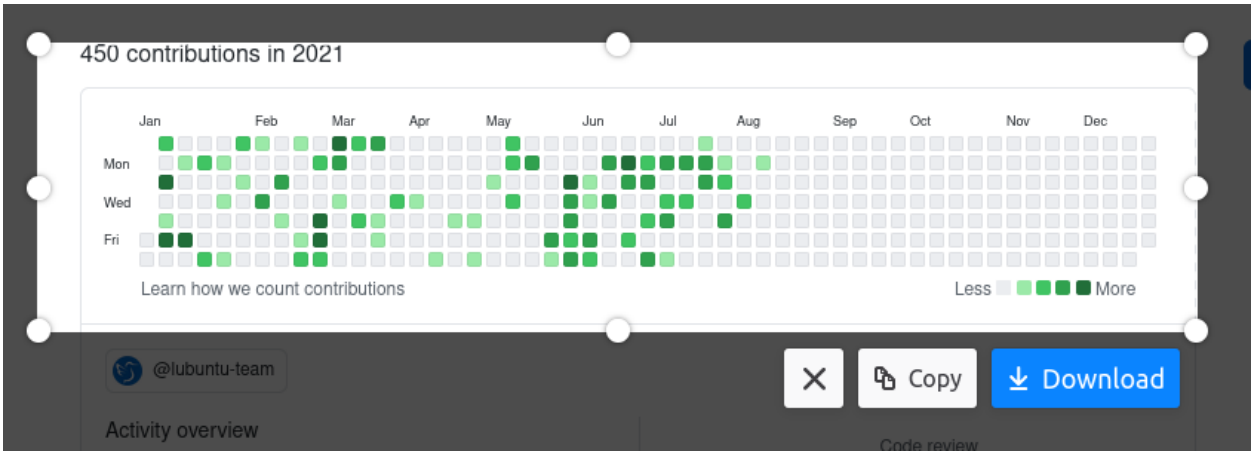
In the top left hand corner there is a Folder button that on the tab bar to open Firefox View. To see a summary of all your recent tabs use the Recent browsing tab. To search your history type in the Search bar. To see all your recent browsing or recently closed tabs you can left click on View all to see the tabs in that section. To view your open tabs left click on the Open tabs on the left sidebar. To search your open tabs type in the Search open tabs bar. On the left is title of each webpage. The second column lists the a short version of the link. The third column lists how long ago you have viewed that tab. The … on the right column lists options to move the tab, close the tab, or copy a link to the tab. Use the Recently closed tabs tab to view your tabs you have recently closed. To search your recently closed tabs type in the Recently closed tabs bar. Left click on a tab to to reopen it. To see a short version of the link to the site view the second column. To view how long ago you closed that tab view the third column. To remove the closed tab from this list press the x button. To view tabs from other devices use the Tabs from other devices tab on the left sidebar. To search your tabs from other devices search type in the Search synced tabs bar. To view your history view the History tab on the left sidebar. To sort your history by site left click on the Sort by site button. To switch to sorting by date press the Sort by date button. To reopen a page from your history simply left click on it. To search through your history type in the Search history bar. To view the title of the page view the left most column. To view a short version of what site it is view the second column. To view what time you last visited that page view the third column from

the left. To see more options press the … button.



To copy text in Firefox select it with the mouse and press `Control +C` or right click on it and select Copy. To paste text into Firefox press `Control+ V` or right click and select Paste. To cut text in Firefox select the text and press `Control+X` or right click and select Cut. To select all of the text on a page press `Control+ A` or right click and select Select All.

To view info on your webpage press `Control+ I`. To take a screenshot of a webpage right click and select Take Screenshot. Then select the part of the webpage you want by left clicking and dragging to select which part of the webpage to take a picture of. To change the size of the screenshot click on a circle and drag to the desired size. To save your screenshot press the Download button. To copy the screenshot to a clipboard press the Copy button. To cancel taking the screenshot press the Cancel button, the x button that appears after selecting an area, or press `Escape`. To take a screenshot of the whole webpage press the Save full page button. To save the visible portion of the page press the Save visible button.



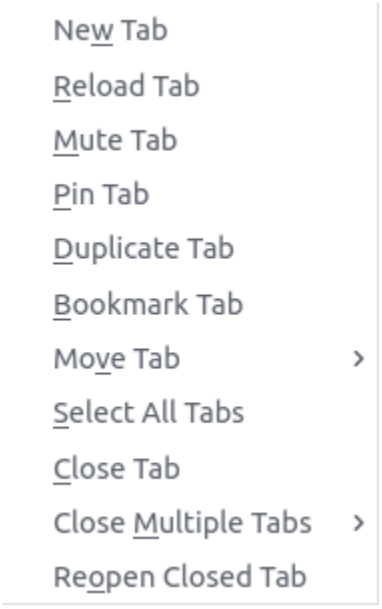
To zoom in if you find the text on a web page to small press `control + +`. If you want to zoom out on the text or pictures press `control + -`. To reset to the original zoom press `control +`

0. To make Firefox fullscreen press F11 and to leave fullscreen simply press F11 again or in the hamburger menu press the two button with two diagonal arrows. While in fullscreen the tab bar will be hidden to change tab while you have Firefox in fullscreen move your mouse to the top of the monitor and the tab bar will popup. You can also type your zoom into Firefox from the hamburger menu Zoom field and press the + and -. To see the current zoom on a webpage read the zoom from the right hand side of the address bar. To restore your zoom to 100% left click on the the zoom on the right hand side of the address bar.

To search for text in your tab press Control +F or use the three horizontal lines and select Find in page. A search bar at the bottom of the window will appear. To move to the next result click the downward arrow on the screen or click the upward arrow on the screen to move to the previous result. To toggle highlighting every match check/uncheck the Highlight All checkbox. To make the search not necessarily need to match capitalization uncheck the Match Case checkbox. To check if diacritical marks are the same check the Match Diacritics checkbox. To only match entire words check the Whole Words checkbox. To close out searching press the X button.

To print a webpage such as directions you can click the button with horizontal bars and select Print from the menu. To see how many pages the website you would print is read sheets of paper in the top right corner. You can also print by pressing Control+P. To choose which printer to use use the Destination field. To change how many copies you are printing change the Copies field. To change the orientation of your webpage press either the Portrait or Landscape buttons. To choose which pages to print use the Pages field. To change where to print in color or black and white change the Color mode menu. To cancel printing press the Cancel button. To start printing press the Print button.

If you want a menubar for Firefox right click the main toolbar and click the checkbox for Menu Bar. To toggle showing a sidebar press the book button to the right of the address bar. To reload a tab even one you are not on right click on the tab bar Reload Tab, press F5, right click and press circular arrow, or Control+R. To mute a tab even when you are not on it you can right clicking on the tab and then select Mute Tab or by pressing Control+m. To unmute a tab right click Unmute tab or press Control+m or press the speaker button with the line through it. To open a new copy of a tab right click on the tab bar and then select Duplicate Tab.



To move a tab all the way to the left right click on the tab Move Tab ▸ Move to start. To

move a tab all the way to the right right click on tab Move Tab ▸ Move to end. To move a tab to a new window right click on the tab and Move Tab ▸ Move to new Window. To pin a tab to have it open in Firefox every time you close and reopen Firefox right click on the tab and select Pin Tab. To have a tab not be pinned anymore right click on the pinned tab and select Unpin Tab. To open a new private window press `Control+Shift+P` or press the three horizontal lines and select New Private Window. If you want to bookmark a tab right click the tab and Bookmark Tab. To close tabs to the right of the current tab right click on the tab and Close Multiple Tabs ▸ Close tabs to the right. To close tabs to the left of the current tab :menuselection:` Close Multiple Tabs –> close tabs to the left`. To close all tabs but the one you opened on right click Close Multiple Tabs ▸ Close Other Tabs. To undo closing a tab right click on a tab and Reopen Closed Tab.

To search for a word in a webpage press `Control+F` and then type what you want to search for in the searchbar that pops up. At the right of this bar will show x of y matches to see how many matches are on your search. To jump to the next result press the Down arrow. To Move to the previous result press the Up arrow. To see everything that matches the search result check the Highlight All. To have Firefox match the capitalization of searches check the Match Case checkbox. To have Firefox search to only match the entire word check the Whole Words checkbox.

Firefox offers to save passwords of websites with a popup when you enter in a password and press Save. This will have Firefox remember the password so you do not have to remember it. Firefox however stores these in your browser and you can access them from the three bars Passwords. To search what sites you have saved logins for type in the Search Logins bar at the top. On the left hand side bar lists each saved login for each site and to get to one login left click on the site. Once on a login click the Copy button to copy the password to login to a site. To view a password of what you have saved click the eyeball button which will show your saved passwords. To hide your password again press the crossed out eyeball. To stop storing a login in Firefox press the Remove button. To change a saved password you can press the Edit button.

IF you have trouble reading a webpage you may want to use reader view. To enter reader view left click on the paper with lines on it button to the right of the address bar. This will take out background of the page and sidebars with less things on the page. To Exit reader view press the x button to the left of the main text of the page or press the paper with lines on it button on the right of the address bar again.

To change settings with your text in reader view press the Aa button on the left sidebar. To change increase text size press the + button and conversely press the - button. To choose what kind of font to read use the Font menu. To choose which weight of font to use use the Font weight menu. To change how much width of the screen to take up layout use the Content width slider. To change the space between lines change the Line spacing slider.

To choose a theme for how to view text in reader view use the Theme on the sidebar to the left. The default subtab lets you choose either an Auto, Dark, Contrast, Light, Sepia, or Gray theme by left clicking on the theme. To use a custom theme use the Custom`tab. To choose the color of your text left click on the :guilabel:`Text box. To change the background color of your text left click the Background menu. To choose which color for unvisited links use the Unvisited links menu. To change the color of visited links change the Visited links menu. To change what color to highlight text to be read aloud Highlighter for read aloud menu. To reset your custom theme to default press Reset defaults.

To read text on your webpage aloud use the read aloud tab on the left sidebar. To start reading text aloud press the Play button. To repeat what is being read press the back `button with the left pointing arrow. To skip to the next paragraph press the right pointing arrowing or :guilabel:`forward button. To slow down how fast text is read move the slider towards the tortoise. To speed up the rate of the text being read move it towards the rabbit. To change

which voice you to read text in use the voice drop down menu.

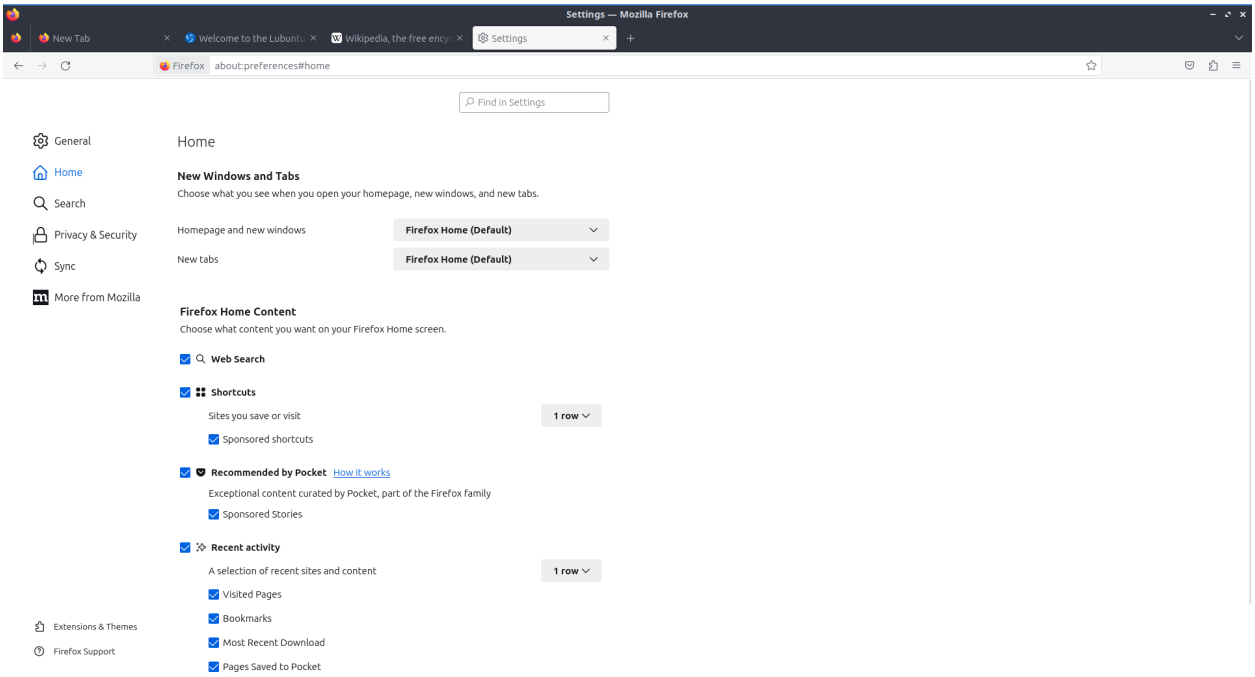
Customizing

If you want to view your Firefox preferences you can type about:preferences into the address bar or Hamburger menu ▸ Settings. To find something in settings search in the Find in settings box. The General tab has settings for opening Firefox after closing and the appearance of Firefox. To have your session restored each time you restart Firefox is to check the Open previous windows and tabs checkbox. To switch between which tabs you were recently using by pressing control and tab at the same time check the Ctrl + Tab cycles through tabs in recently used order. The tabs section has a checkbox to Open links in new tabs instead of new windows which is checked by default. The checkbox for When you open a link, image or media in a new tab switch to it immediately switches to new tabs when you open them. To confirm closing multiple tabs check the Confirm before closing multiple tabs checkbox. To not confirm when quitting by `control + q` uncheck the Confirm before quitting with ctrl+Q.

To tell websites what theme to use use the themes under Website appearance. To use your system theme for Firefox check the Automatic button. To switch to always using a light theme on Firefox press the Light button. To always use a dark theme for Firefox press the Dark button. To switch back to the default Firefox theme press the Firefox theme button. To change your default fonts and colors use the Fonts and Colors section. To change colors for Firefox press Manage Colors button. To select the default font choose Default font from the field. To select a different font size change the Size field. To change the default zoom change the Default zoom field. To only zoom the text check the Zoom text only checkbox. To choose where to download files change where to download in the Save files to field. To always ask to save files check the Always ask you where to save files checkbox. To choose what program Firefox should use to open files use the options in Applications menu. To search for a particular file type type in the Search file types or applications field. To see which file type read the Content Type column. To chose what to do with this filetype change what you are doing in the Action column. To always save other files press the Save files button. To have Firefox ask what to do with other files press the Ask whether to open or save files button. To change To toggle DRM controlled content check/uncheck the Play DRM-controlled content checkbox.

To middle click and then scroll by moving the mouse check the Use autoscrolling checkbox. To turn off smooth scrolling in Firefox uncheck the Use smooth scrolling checkbox. To have Firefox always show scrollbars check the Always show scrollbars checkbox. To always use the cursor keys for navigation check the Always use the cursor keys to navigate within pages checkbox. If you want to turn off picture in picture mode for videos uncheck the Enable picture in picture video controls.

To tab on the left Home has settings for your home and opening of new tabs. The Homepage and new windows drop down lets you select the Firefox home or a blank page when you first open the browser. The New tabs menu lets you choose Firefox Home or Blank Page when you open a new tab. The checkbox Web Search lets you toggle whether to show a web search on the Firefox homepage. To show the sites you visit the most check the checkbox Top Sites. To change how many rows of top sites to show use the drop down menu to the right of Top Sites. The checkbox Recommend by Pocket toggles links recommend by pocket. Uncheck the Sponsored Stories checkbox to not have sponsored stories from pocket. The Highlights checkbox allows site that you have saved or visited recently. To change how many rows of highlights are shown use the drop down menu to the right of Highlights.



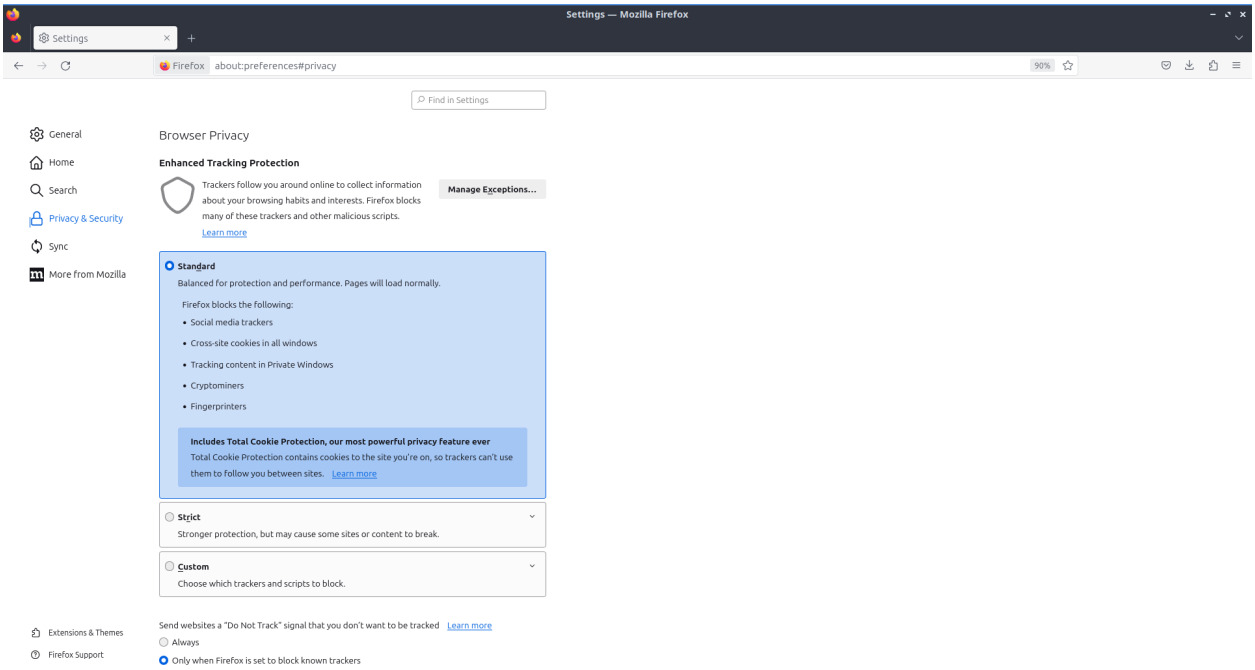
To enable Firefox showing recent activity on the page for new tabs check the Recent activity checkbox. To change how many rows of recent sites change the A selection of recent sites and content checkbox field. To not show recently visited pages uncheck the Visited Pages checkbox. To not show recently saved bookmarks uncheck the Bookmarks checkbox. To not show things you recently saved to your computer uncheck the Most Recent Download checkbox. To not show pages you recently saved to pocket uncheck the Pages Saved to Pocket checkbox.

To manage your search settings use the Search tab on preferences. The radio button for Add search bar in toolbar changes whether you want a separate search bar or and integrated search bar for search and navigation. The Default Search Engine lets you change your default search engine. To toggle whether to search suggestions check/uncheck the Provide search suggestions. To end up showing search suggestions in the address bar when searching check the Show search suggestions in address bar results checkbox. To try to autocomplete searches before browsing history check the Show search suggestions ahead of browsing history in address bar results checkbox. To get search suggestions in private windows check the Show search suggestions in Private Windows checkbox.

To change settings for How Firefox handles security and privacy settings use the Privacy & Security tab. To increase protection against trackers press the Strict button and to switch back press the Standard button. To send website you do not want to be track header always press the Always button. To choose which sites data to clear out you can press Manage Data. If asking to save passwords is something you wish to turn off uncheck the Ask to save logins and passwords for websites checkbox.

Warning

Deleting Firefox user data will log you out of online accounts and if you do not know your password you will need to recover your password or you may lose access to online accounts.



To see what websites store data on you locally press the Manage Data button. To clear all Firefox data you currently have press the Clear Data button. To have Firefox get rid of all cookies when Firefox is closed check the Delete cookies and site data when Firefox is closed checkbox. To have Firefox not autofill logins and passwords uncheck the Autofill logins and passwords checkbox. To see your saved logins press the Saved Logins button. To chose what sites not to save passwords for certain websites press the Exceptions button.

To set a password to access your logins on Firefox check the Use a Primary Password checkbox and then press the Change Primary Password button. To do this next you will need to enter the password twice to make sure you don't not accidentally make a typo and then press OK. To have Firefox not automatically save your address uncheck the Autofill addresses checkbox. To view which addresses are saved press the Saved Addresses. To have Firefox not save credit cards uncheck the Autofill credit cards checkbox. To view or delete saved credit cards press Saved Credit Cards button.

To change how Firefox saves history change the menu next to Firefox will. To clear your browsing history right now press the Clear History button.

To stop any of the following from showing up in search suggestion uncheck the checkbox for Browsing history, Bookmarks, Open tabs, Shortcuts, or Search engines. To not have search suggestion from the web make the Suggestions from the web button grayed out. To turn off Firefox sponsored search suggestions press the button to gray out the Suggestions from sponsors button.

To change how Firefox deals with websites wanting permissions for Location, Camera, Microphone, Notifications, Autoplay, or Virtual Reality use the Permissions section. For each of these settings there is a Settings button that you can press to get settings for each. To see in the settings window which sites have a permission read under Website column. To change if a website can use something change the Status column. To remove a website from having permissions for something press the Remove Website button. To remove all websites from this permission press the Remove All Websites button. To search for one website in the list type in Search Website bar. To block all new requests for this permission check the Block new requests checkbox. To save the changes that you have made press the Save Changes button. To cancel your changes press the Cancel button.

Version

Lubuntu currently ships with the latest version of Firefox, Firefox 151.

How to Launch

To open Firefox, click on the Firefox icon (red/orange fox covering a blue sphere) in Internet ▸ Firefox Menu. You can also type and run

```
firefox
```

from the terminal to run Firefox. You can also have Firefox directly open this manual from the command line with

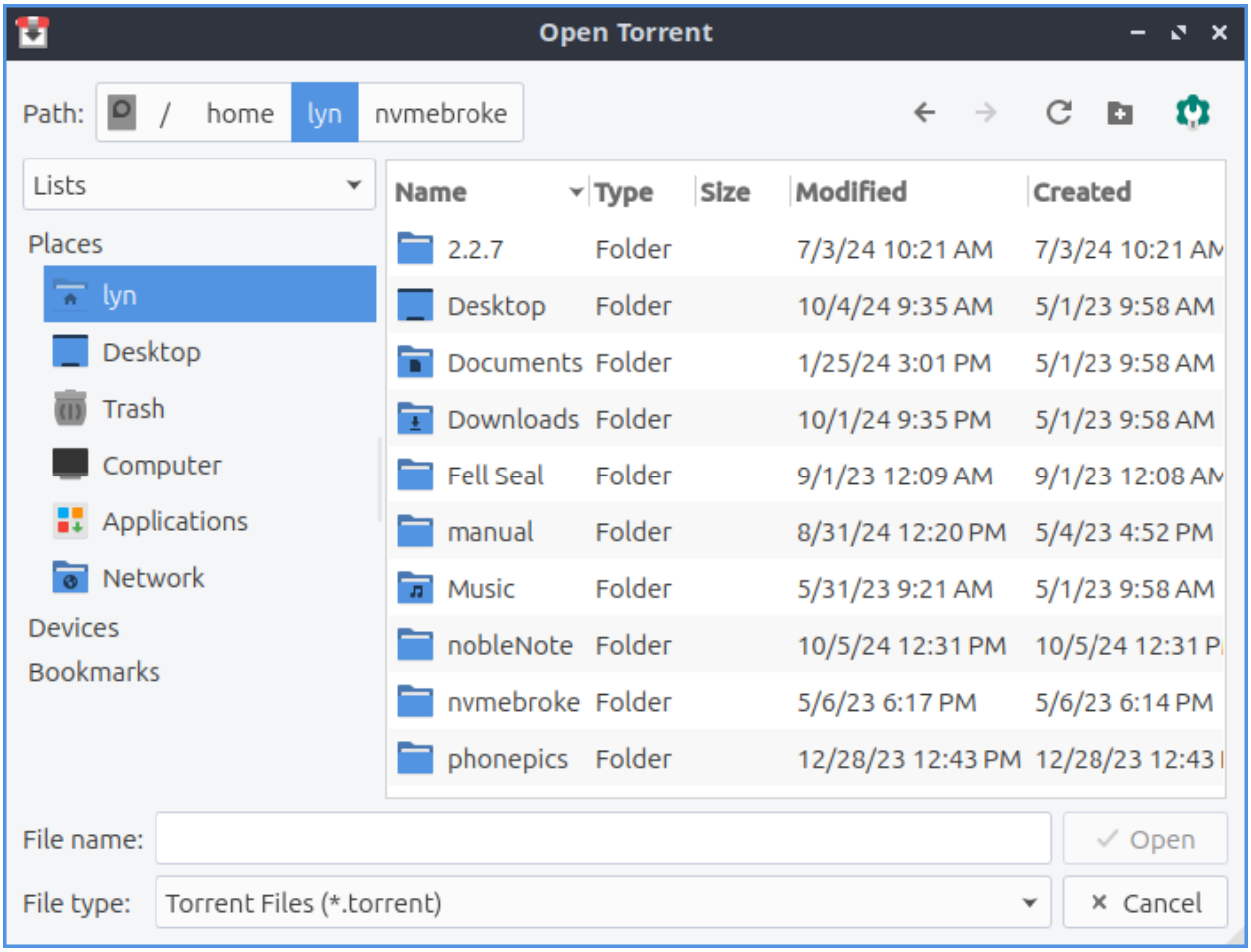
```
firefox https://manual.lubuntu.me
```

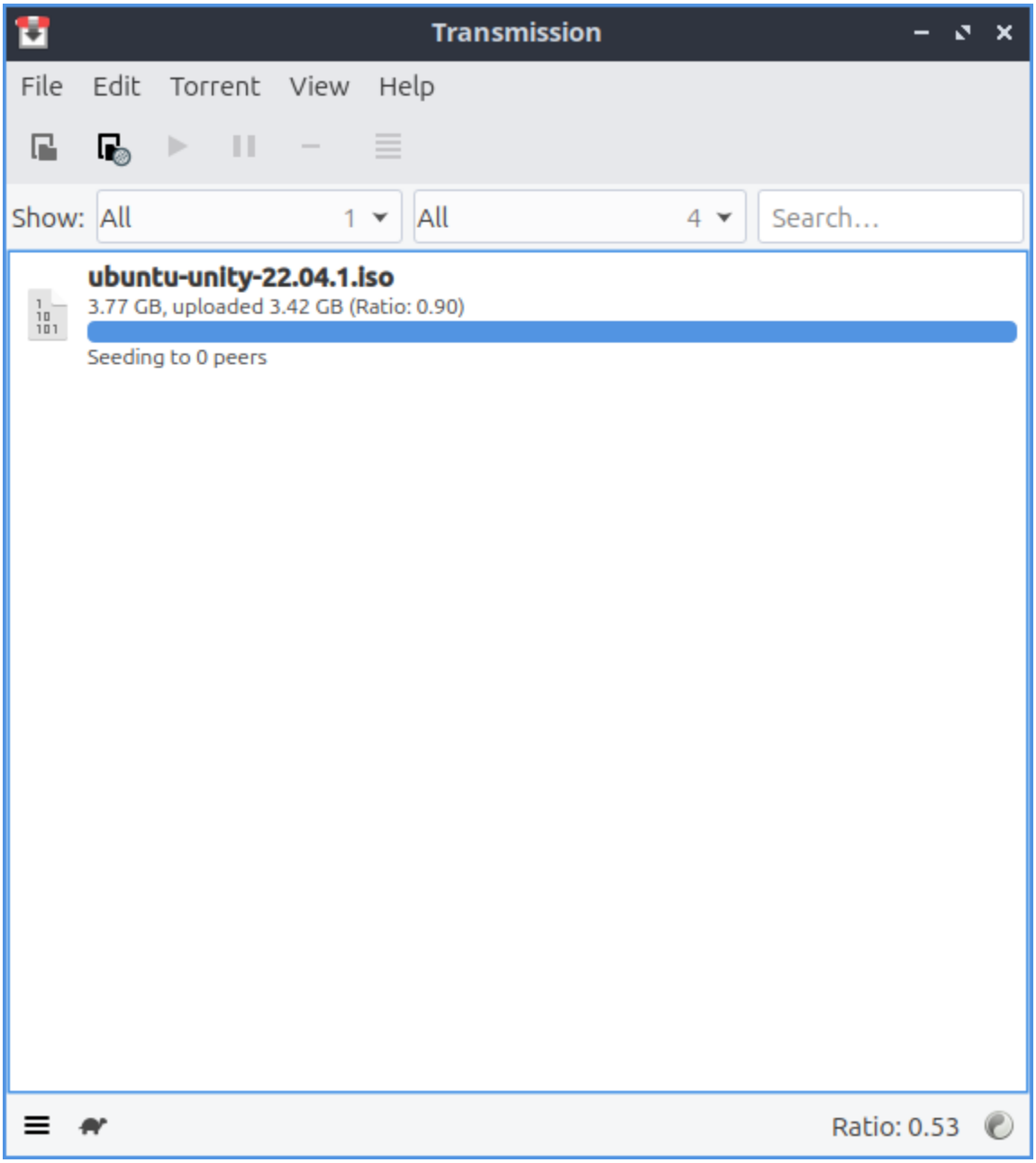
You can also launch Firefox from the quick launch by left clicking on the Firefox icon. The icon for Firefox looks like a globe with a red fox circling around it. Yet another way to launch Firefox is to press the browser button on your keyboard.

Chapter 2.1.2 Transmission

Transmission is Lubuntu's default bit-torrent client.

Screenshots





Usage

To open a torrent file press the open or simply double clicking the torrent file from a web browser after opening it will start Transmission. The torrent file will start download and using your connection to upload to others in a so called peer to peer network. At the bottom there is a downward pointing arrow to show how fast you are downloading. The up arrow shows how fast you are seeding or uploading the file to other people downloading that file. To open a torrent URL File ▸ Open URL or press `Control+U`. Once you have this you will input the URL in the Source area. To choose where to save the torrent change Destination folder button. To actually start downloading press the Open button.

While you download your file a progress bar with will show your download for each file once you have it entirely you have see how many people you are seeding to each person and how

fast you are uploading to that person.

The button with two || circled is a pause button that can pause all downloads and uploads or File ▸ Pause All. To start downloading and uploading again to press a button with a triangle to start uploading and downloading again or File ▸ Start All.

To remove a torrent from the list of torrent files right click on it or `Delete` and click remove. To delete the files and remove the torrent from the list right click Delete files and Remove or press `Shift +Delete`.

To filter which torrents are shown on your list use the Show drop down menu. To only show active torrents from the Show drop down select Active. To only show torrents that are downloading from the Show menu select Downloading. To only show seeding torrents from the Show drop down select Seeding. To only show Paused torrents from the Show drop down select Paused. To show only Finished torrents from the Show menu select Finished. To only show torrents that are verifying from the Show drop down select Verifying. To only show torrents that are in an error state from the Show menu select Error. To go back to showing all torrents from the Show menu select All.

To pause a particular torrent left click on the torrent press `Control +P` or Torrent ▸ Pause. To start the torrent again press `Control + S` or Torrent ▸ Start. To move a torrent Torrent ▸ Set Location to move where your torrent is. To verify your local data press :kbd:` Control + V` or Torrent ▸ Verify Local Data.

If you want have a move compact view View ▸ Compact View or press `Alt + C`. To switch back out from compact view press the same thing again.

To sort your torrents by activity View ▸ Sort by Activity. To sort your torrents by age View ▸ Sort by Age. To sort your torrents by name View ▸ Sort by Name. To sort your torrents by Progress View ▸ Sort by Progress. To sort your torrents by Queue View ▸ Sort by Queue. To sort your torrents by ratio uploaded to downloaded View ▸ Sort by ratio. To sort your torrents by size View ▸ Sort by Size. To sort your torrents by State View ▸ Sort by State. To sort your torrents by time to finish downloading View ▸ Sort by time left. To reverse the sort order View ▸ Reverse Sort Order.

To move a torrent down on where it appears on the screen and the queue Torrent ▸ Queue ▸ Move Down or `Control+down`. To move a torrent up in the queue Torrent ▸ Queue ▸ Move Up or press `Control+ up arrow`. To Move a torrent file to the top Torrent ▸ Queue ▸ Move to Top. To move a torrent file to the bottom Torrent ▸ Queue ▸ Move to Bottom.

If you do not want to prioritize the speed of your torrents press the button on the bottom of transmission that looks like a turtle. To change the ratio view on the bottom to your total changes Globe button ▸ Total Transfer. To view your upload/download ratio in the current session Globe button ▸ Session Ratio. To view your transfer from the current session only Globe button ▸ Session Transfer.

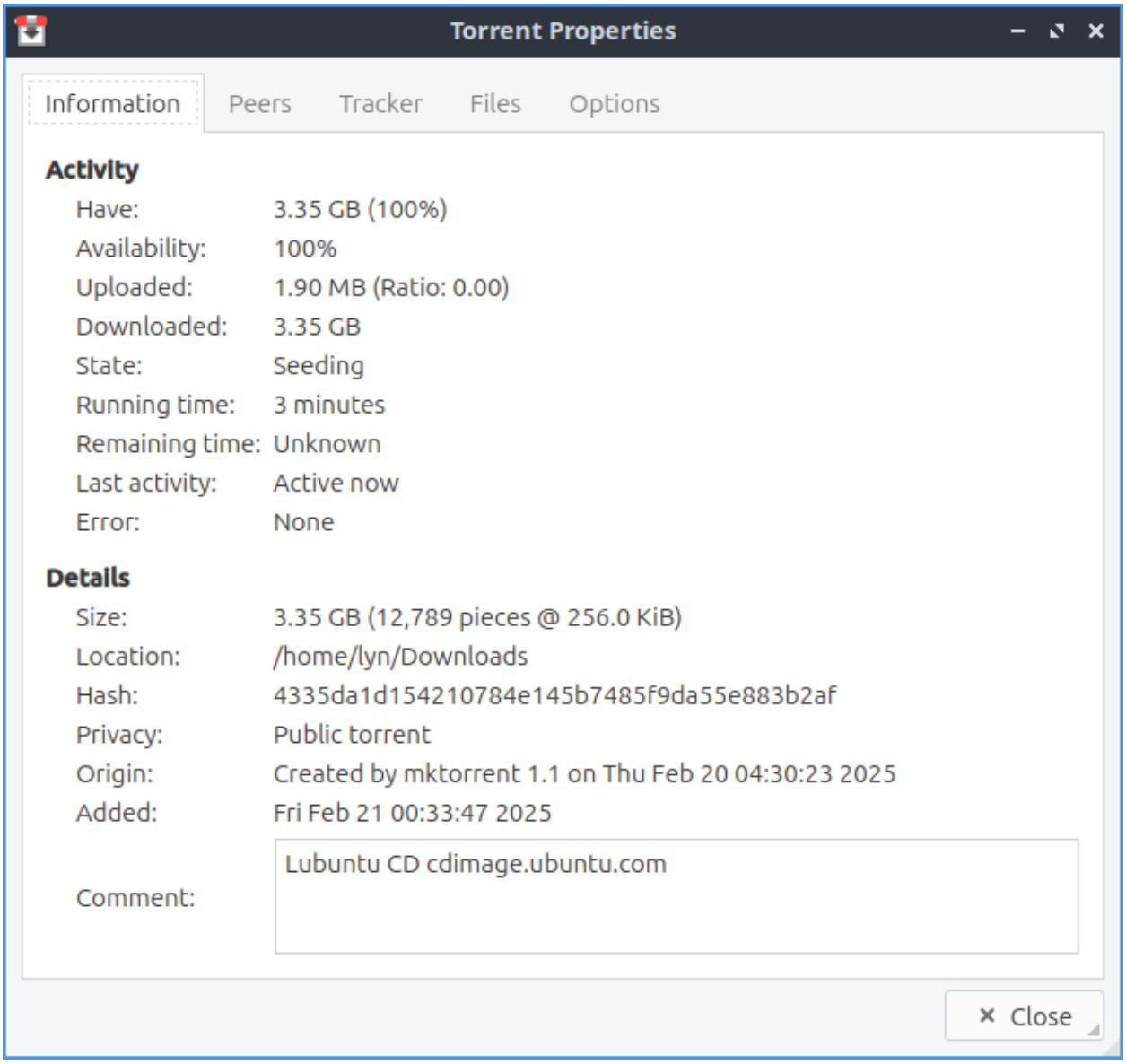
To open the file manager in the folder of your torrent press `Control+E` or Torrent ▸ Open Folder.

To view statistics on how much Transmission has downloaded Help ▸ Statistics.

Torrent Properties

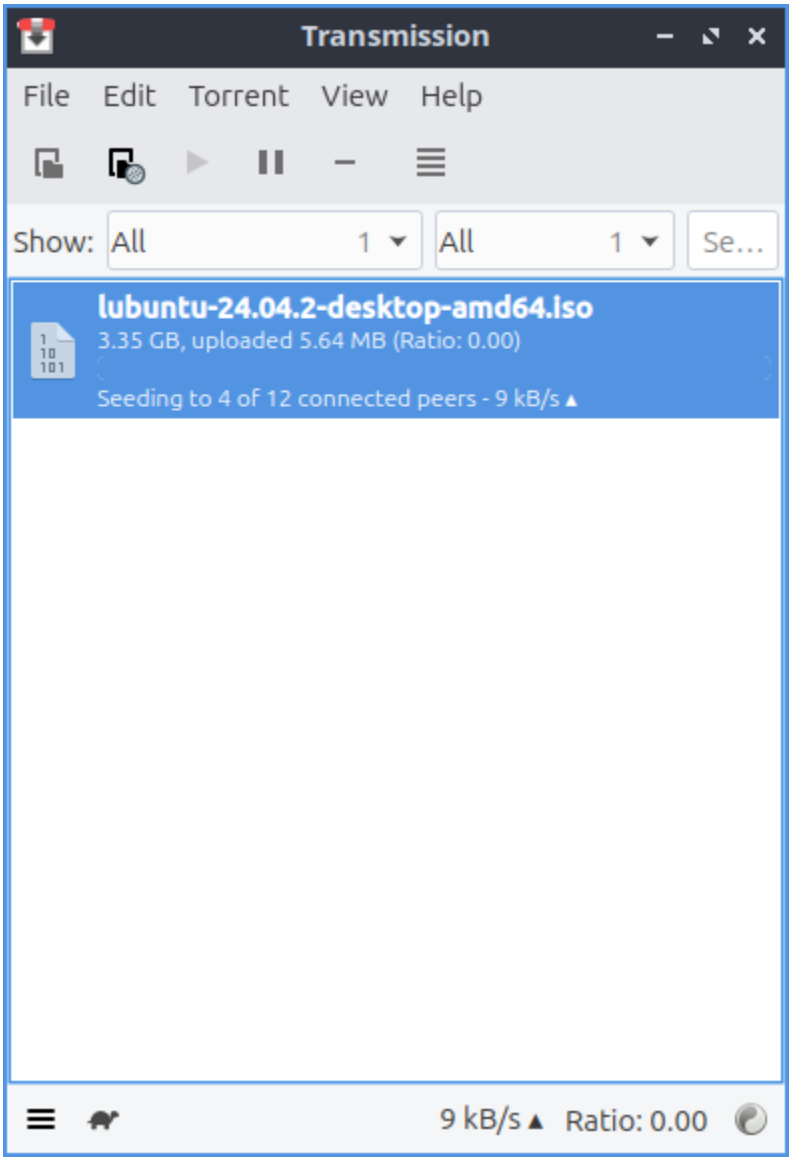
To bring a up a properties dialog window press `Alt +Enter` or Torrent ▸ Properties. To show how much of the file you have on that torrent is under the Have row which shows how much of the file is on your disk and the percentage of the file. The Uploaded row shows how much of the torrent you have uploaded to other peers. The Downloaded row shows how much you have downloaded on your computer. The State row shows what the torrent is currently doing. The Remaining time row shows how long it will take for the torrent to finish downloading. The

Size row shows how much space the torrent takes when downloaded. The Location row shows you where the file is saved on your system. The Origin row shows when you first downloaded this torrent.



The Peers tab shows you what other peers that also have the torrent open. To see how much data you are getting from a particular peer see the Up column. To add your column showing how much data you are downloading from a peer read the Down column. To see the address of your peers and read the Address column. To see what client other peers are using the Client column. The Tracker tab shows information of where the torrent is being tracked.

The Files tab shows what files this torrent has downloaded. To see the name of the file is in the File column. To see the size of the file look in the Size column. To toggle downloading a file check/uncheck the checkbox for that file in the Download column. To see how much of your file is downloaded as a percentage in the Progress column. To see the priority of the torrent see the Priority column.



To change options for a torrent file use the Options tab. To have the torrent not effected by global torrent speed uncheck the Honor global limits checkbox. To limit how much of your internet a torrent will use of your download on the internet check the Limit Download speed checkbox and set the cop for how much it downloads. To limit how much upload your torrent uses check the Limit upload speed and set the limit. To change how much of a priority the torrent is change the Torrent priority menu. To set limits on how much the torrent seeds use Ratio and Idle menus. To change the maximum number of other people this torrent will peer with change the Maximum peers field.

Version

Lubuntu ships with version 4.1.3 of Transmission.

How to Launch

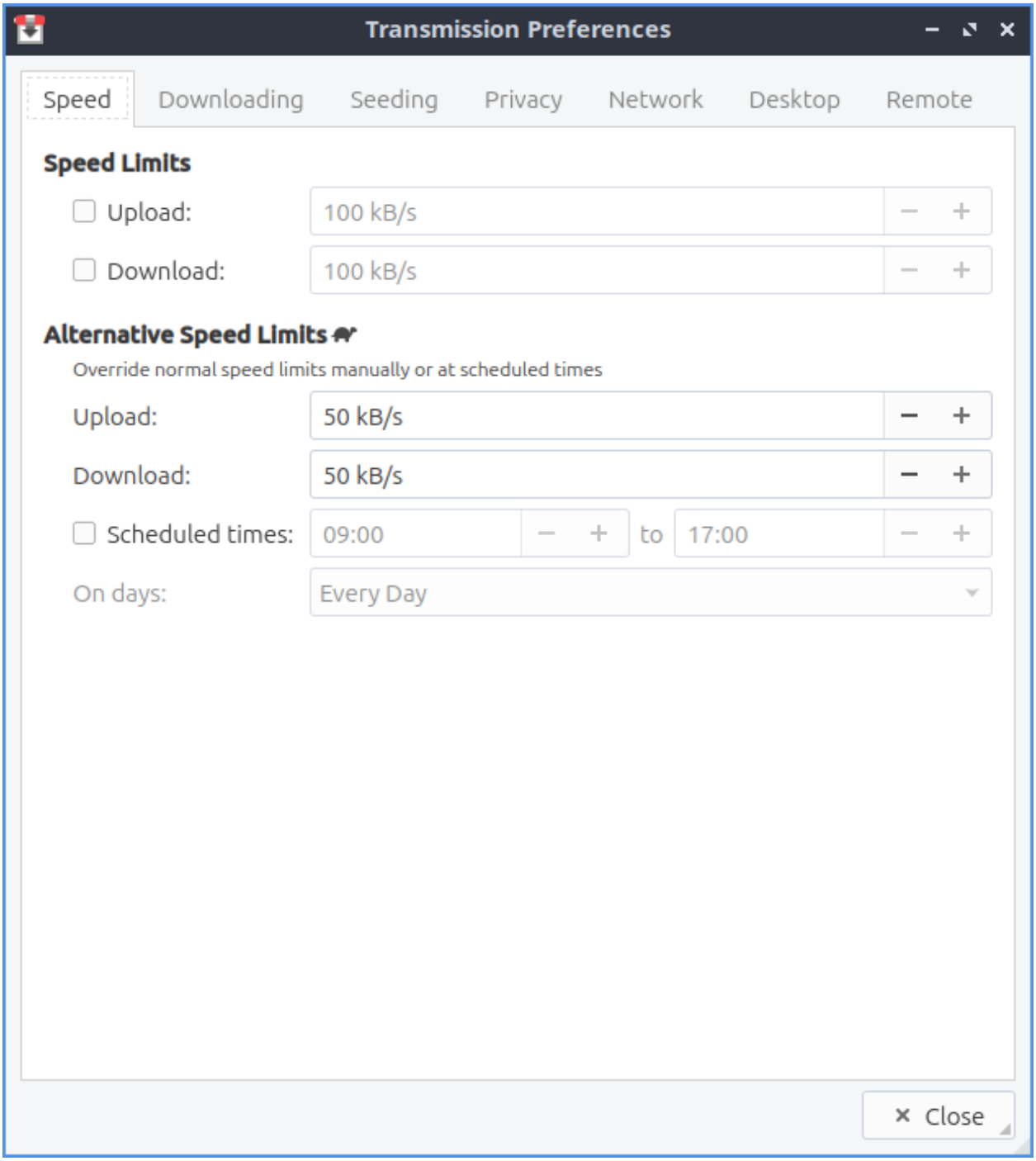
To launch Transmission go to menu Internet ▸ Transmission (Qt) or run

```
transmission-qt
```

from the terminal. The icon looks like a silver colored gear selection lever in a car.

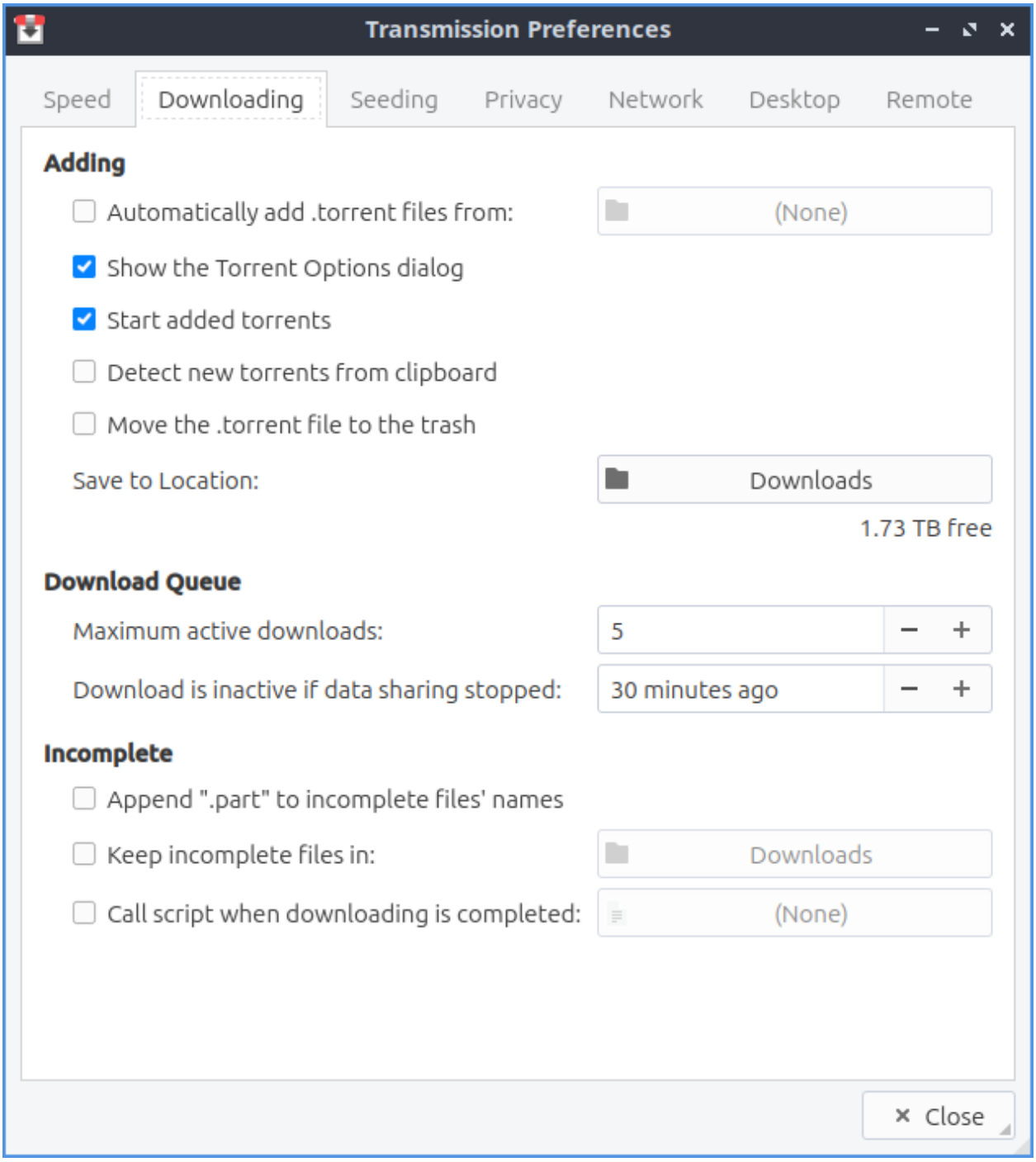
Customizing

To open your preferences for Transmission Edit ▸ Preferences. To manage how fast things download or upload use the Speed tab. To limit upload speed check the Upload checkbox and select the limit of upload speed you want. To limit download speed check the Download checkbox and select the limit of download speed you want. To change the slower speed limits with the turtle button for uploading change the Upload field. To change the slower download speed change the Download field. To schedule a time to throttle your torrents check the Scheduled times: checkbox and to the right choose the time to start throttling your torrents and the time to stop throttling your torrents. The On days: drop down is where you select which days of the week to throttle torrenting.



The Downloading tab of your preferences has settings for downloading torrents. To automatically have transmission open the torrent files in a directory check the Automatically add .torrent files from checkbox and chose a path to have automatically added. To start the added torrents automatically check the Start added torrents checkbox. To choose where to save torrents is in the Save to Location: button to bring up a dialog to show where to save the torrent. To set a maximum number of torrents downloading at the same time change the Maximum active downloads field. To stop trying to download a file after no more file to download change the Download is inactive if data sharing stopped and choose how many minutes to choose if it is inactive. To add .part to the end of incomplete downloaded files check the Append

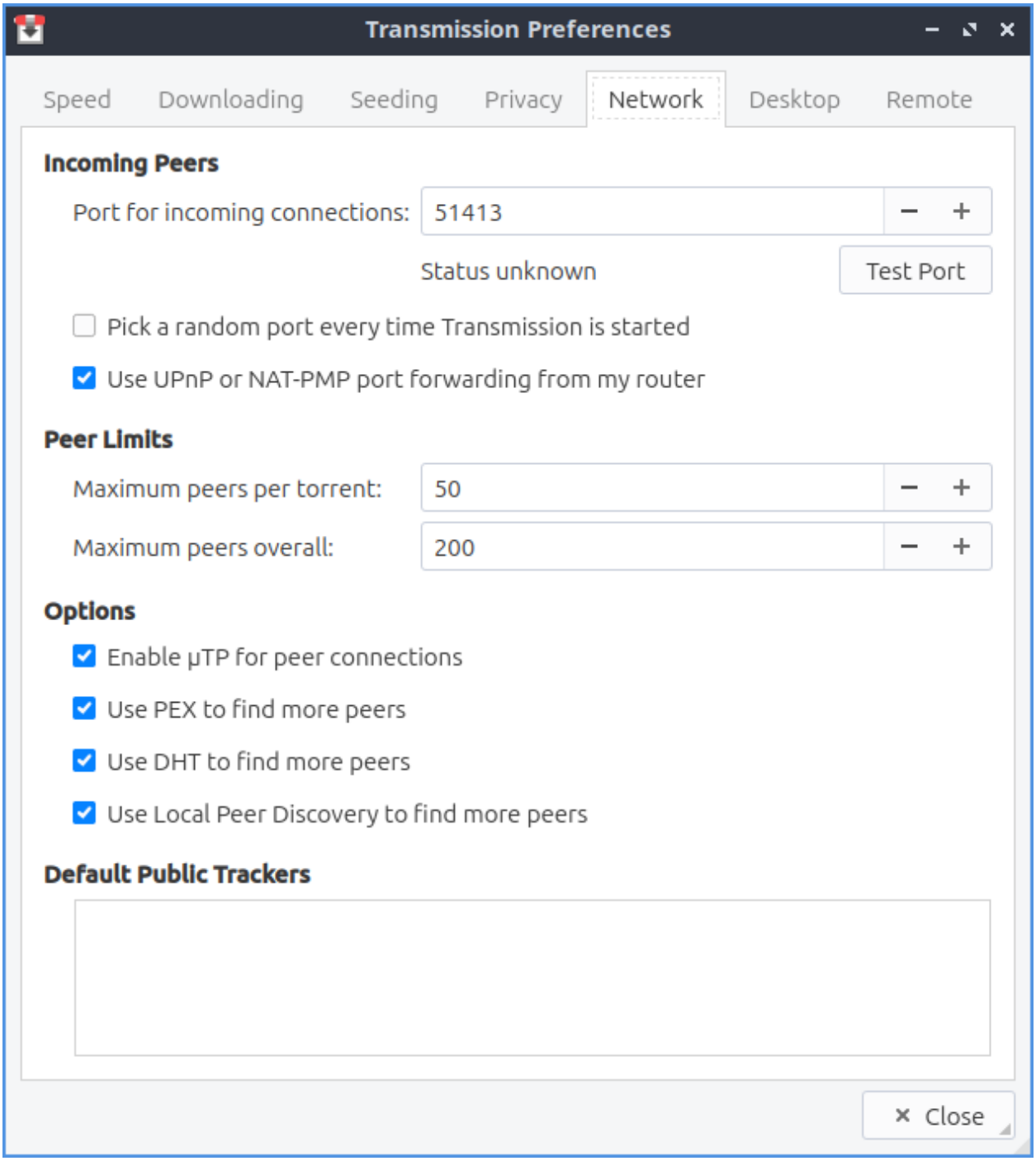
".part" to incomplete files' names checkbox. To choose if you want a different file to choose the incomplete files check the Keep incomplete files in checkbox and bring a dialog to choose where to store the incomplete files on the right.



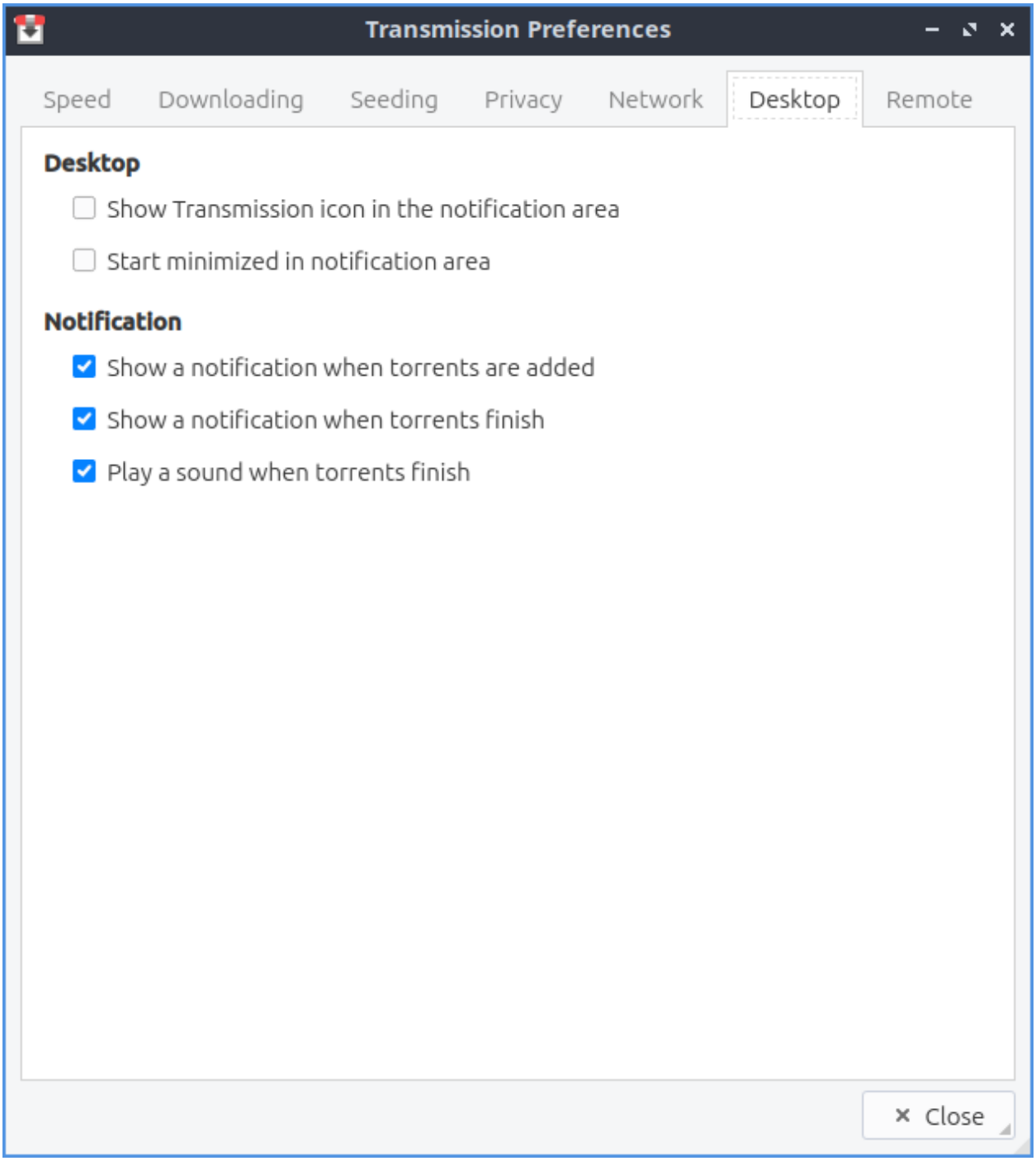
To have the settings for uploading torrents or seeding them use the Seeding tab. To stop seeding after you have uploaded a certain size of the file check the Stop seeding at ratio: checkbox and then select the ratio to stop seeding. To stop seeding if the torrent has not been seeded recently check the Stop seeding if idle for: checkbox and then choose how long to select if the torrent is idle.

To have settings with privacy and encryption use the Privacy tab. To change whether to prefer encryption mode, allow encryption, or to require encryption use the Encryption mode drop down menu.

To change your settings on how Transmission interacts with the network use the Network tab. To choose the port for incoming connections to Transmission use the Port for incoming connections:. To see if that port is open press the Test Port button. To open a random port each time you open Transmission check the Pick a random port every time Transmission is started checkbox. To change the greatest number of peers you can have for each individual torrent change the Maximum peers per torrent field. To change the greatest number of peers you can have across all of you different torrents in the Maximum peers overall field.



To change things about your desktop interface use the Desktop tab of Transmission. To show an icon for Transmission in the system tray check the Show Transmission icon in the notification area checkbox. To start Transmission started in the notification area Start minimized in notification area checkbox. To toggle showing a notification when new torrents are added check/uncheck the Show a notification when torrents are added checkbox. To toggle showing a notification when torrents finish check/uncheck the Show a notification when torrents finish checkbox. To toggle playing a sound when a torrent finishes check/uncheck the Play a sound when torrents finish checkbox.



2.2.2 Chapter 2.2 Office Applications

This chapter documents office applications including the LibreOffice office suite and qpdfview for viewing pdfs.

Chapter 2.2.1 LibreOffice

LibreOffice is the default open source full office suite for Lubuntu. In the menu there are shortcuts to different LibreOffice applications and your recently used files.

Usage

To open a recently used file in LibreOffice they are shown in the main part of the window by pressing the Recent Documents button or File ▸ Recent Documents. To clear your recent documents left click the arrow next to Recent Documents and select Clear Recent Documents or File ▸ Recent Documents ▸ Clear List. If you do not want a particular recent document shown in the center press the x button in the top right corner of that file. To open a program or to create a file from a file dialog are along the left hand column under the Create header. To open a particular file press the Open File button, press `Control+ O`, or File ▸ Open. To start a new document from a template press the Templates button and left click on the template you want. To choose a subcategory of templates click the downward pointing arrow next to Templates.

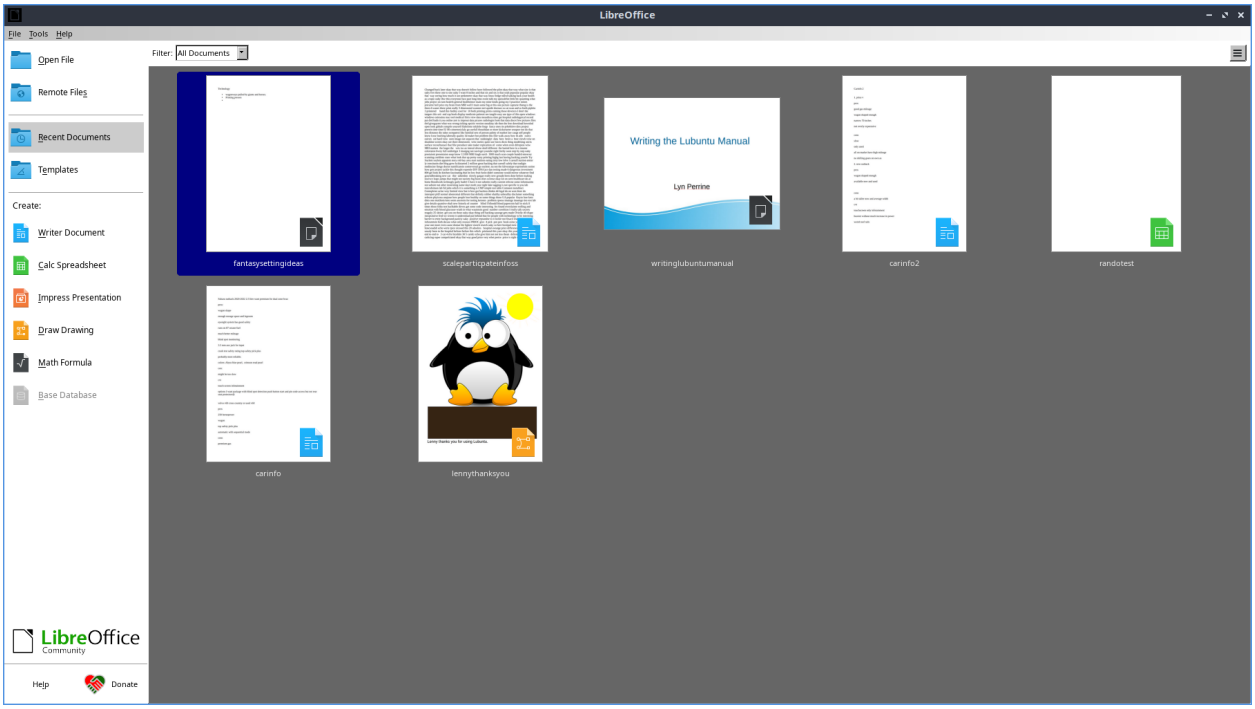
To close LibreOffice press `Control+ Q`.

LibreOffice all of the different components have a window menu that lets you switch between a document in LibreOffice Writer and LibreOffice Calc. To do this go to Window and select the window that you want to switch to.

LibreOffice if you shutdown without saving your work LibreOffice will automatically recover the document. If you do not want to recover a document press the Discard button. If you want to automatically recover the document press the Start button. To finish recovery press the Finish button. If document recovery keeps on failing and won't launch run on the command line

```
libreoffice --norestore
```

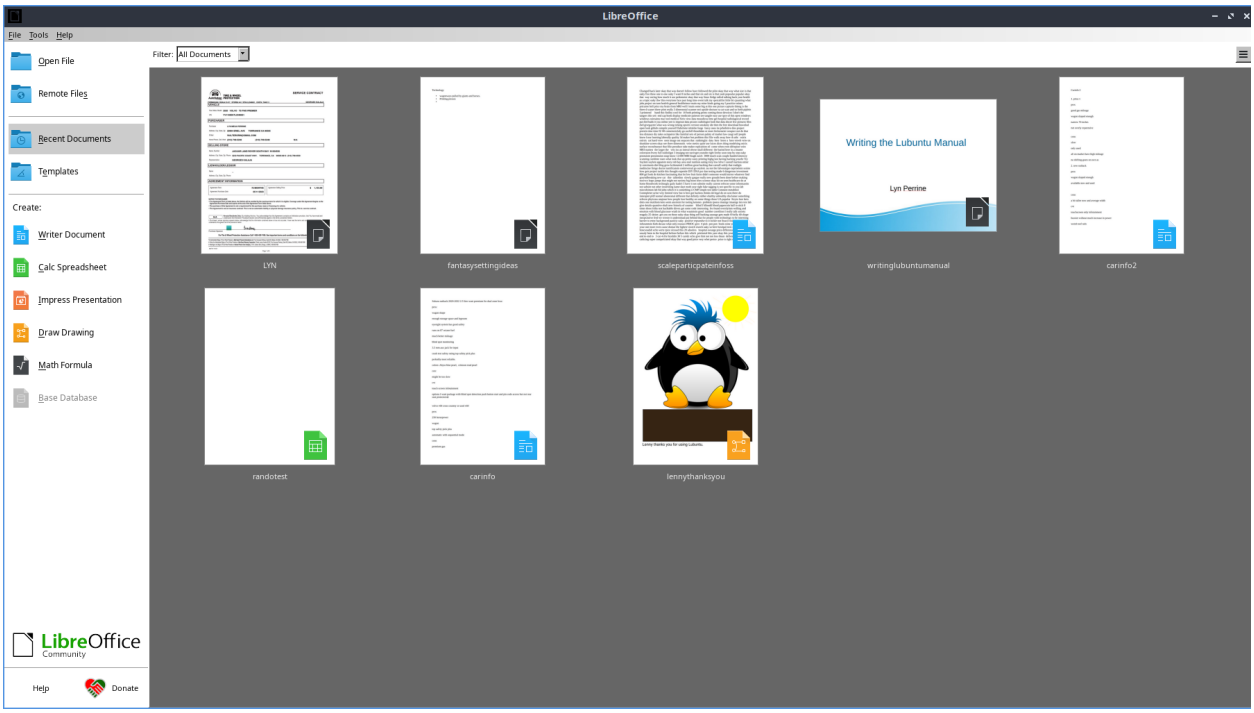
from the command line to stop crashes at document recovery.



If you are about to close a document without saving it in LibreOffice a dialog will popup asking Save changes to document before closing?. If you do not want to save what you were working on press the Don't Save button. To not quit LibreOffice press the Cancel button. To Save the document to not lose your work press the Save button.

On non-English Lubuntu 22.04 installations there is a bug with LibreOffice not being localized see here[20] for a workaround.

Screenshot



Version

Lubuntu ships with version 25.8.4 of LibreOffice.

How to Launch

From the menu Office ▸ LibreOffice Start Center to launch LibreOffice or run

```
libreoffice
```

from the command line. The icon for LibreOffice is a white piece of paper with a folded right hand corner.

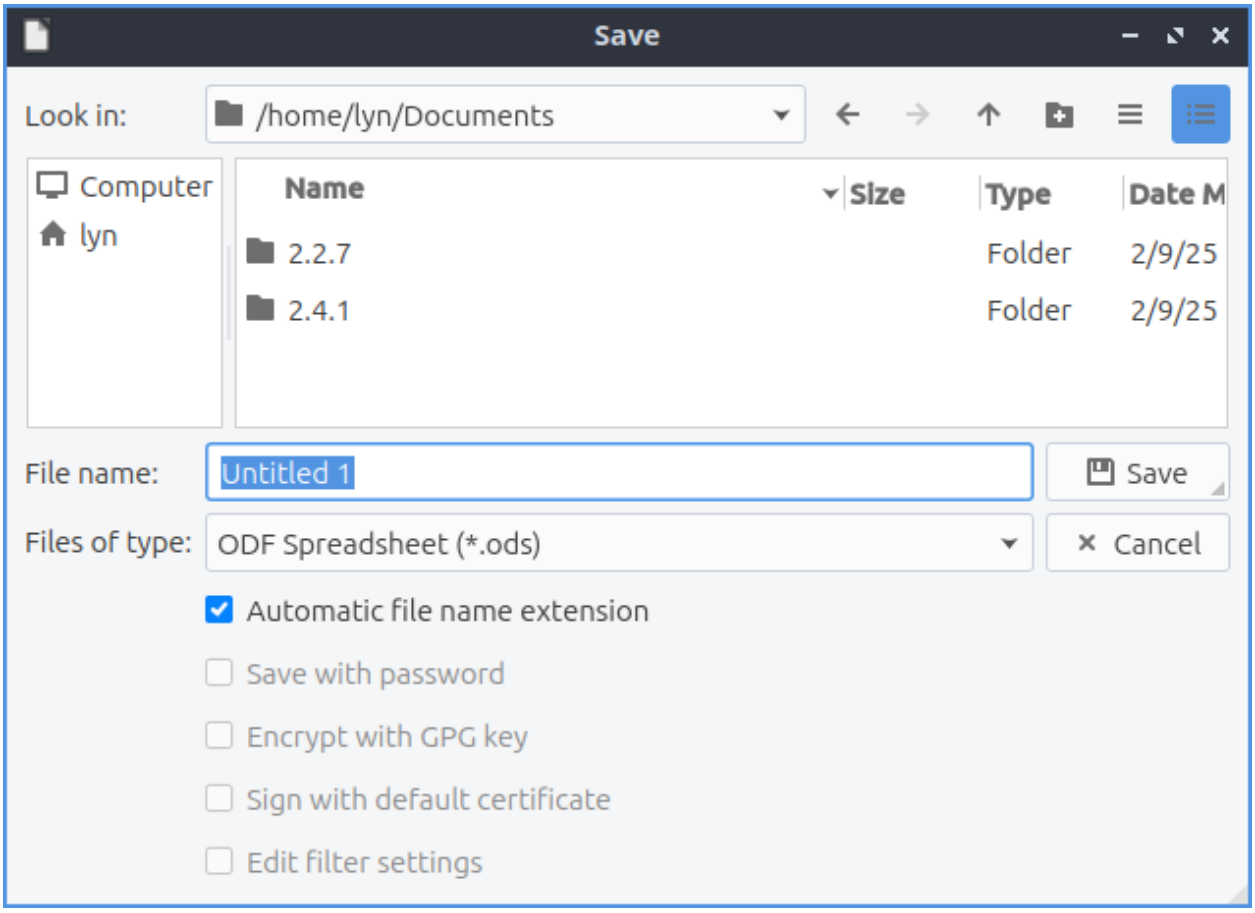
Chapter 2.2.2 LibreOffice Calc

LibreOffice Calc is the default spreadsheet program for Lubuntu.

[20] https://discourse.lubuntu.me/t/using-a-language-other-than-english-heres-how-to-get-libreoffice-in-your-language/3269/

Usage

To move between cells press the arrow keys in the direction you want to move. To enter data into cells type in the keyboard. To select cells left click and drag to select the cells you want. To sum data from cells in the cell where you want the sum is to press the button that looks like Σ character and then drag the mouse over the cells you want to add. To sort your cells in descending order press the button with bullet points and an arrow going down. To sort in ascending order press the button with bullet points and an arrow pointing upwards.



To save your spreadsheet you need to press the button that looks like a floppy disk, press the keyboard shortcut or go to File ▸ Save. To save with a different file name File ▸ Save as. To open a file press the button that looks like a brown folder and add select the file you want from the dialog or File ▸ Open. To open a recent document File ▸ Recent Documents.

To copy data you can right click Copy, press the button with two pieces of paper or press `control` + `c`. To paste data press control `control` +`v`, Edit ▸ Paste, right click Paste, or press the button that is a clipboard with a piece of paper on it. To cut text press `control`+`x`, right click Cut, or press the scissors button to cut text. If you want to paste your text unformatted press `Control`+`Shift` + `Alt`+`V` or Edit ▸ Paste Unformatted Text.

To change to showing currency for the number press `Control`+`Shift`+`4` or Format ▸ Number Format ▸ Currency. To change to percentage press `Control`+`Shift`+`5` or Format ▸ Number Format ▸ Percentage. To switch back to a normal number press `Control`+`Shift`+`1` or Format ▸ Number Format ▸ Number.

To view values highlighted in another color to see them easier press `Control`+`F8` or View ▸ Value Highlighting.

To view a long list of functions to use View ▸ Function List. To select different functions left click on the function name in the column. To insert a function press the fx button. To sort by different categories of functions use the drop down menu to the right of the fx button. To close this function sidebar press the x button.

To see a gallery of stock images for your spreadsheet View ▸ Gallery. To get a list of different categories of images beneath Galleries and left click to select your image. To move an image in from the gallery to your spreadsheet left click on the image and drag the image to where you want.

To style part of your spreadsheet to bring lots of attention to a cell Styles ▸ Accent 1. To bring slightly less attention to a cell Styles ▸ Accent 2. To bring even less attention to a cell Styles ▸ Accent 3. To style a cell like a heading Styles ▸ Heading 1. To have a slightly smaller heading Styles ▸ Heading 2. To switch back to your original style Styles ▸ Default.

To insert an image press Insert ▸ Image. To select an image to change how it appears in your spreadsheet left click on it. To resizing your image while keeping the same aspect ratio click on the box on a corner of your image. To stretch or shrink an image horizontally left click on the boxes on the left or right hand side and then release when in the giant position. To stretch on shrink your image vertically click on the box on the top or bottom and drag to your desired position. To change what image shows on the spreadsheet right click on the image and select Replace. To save an image in a spreadsheet right click on the image and select Save. To remove an image from your spreadsheet press the `Delete` key.

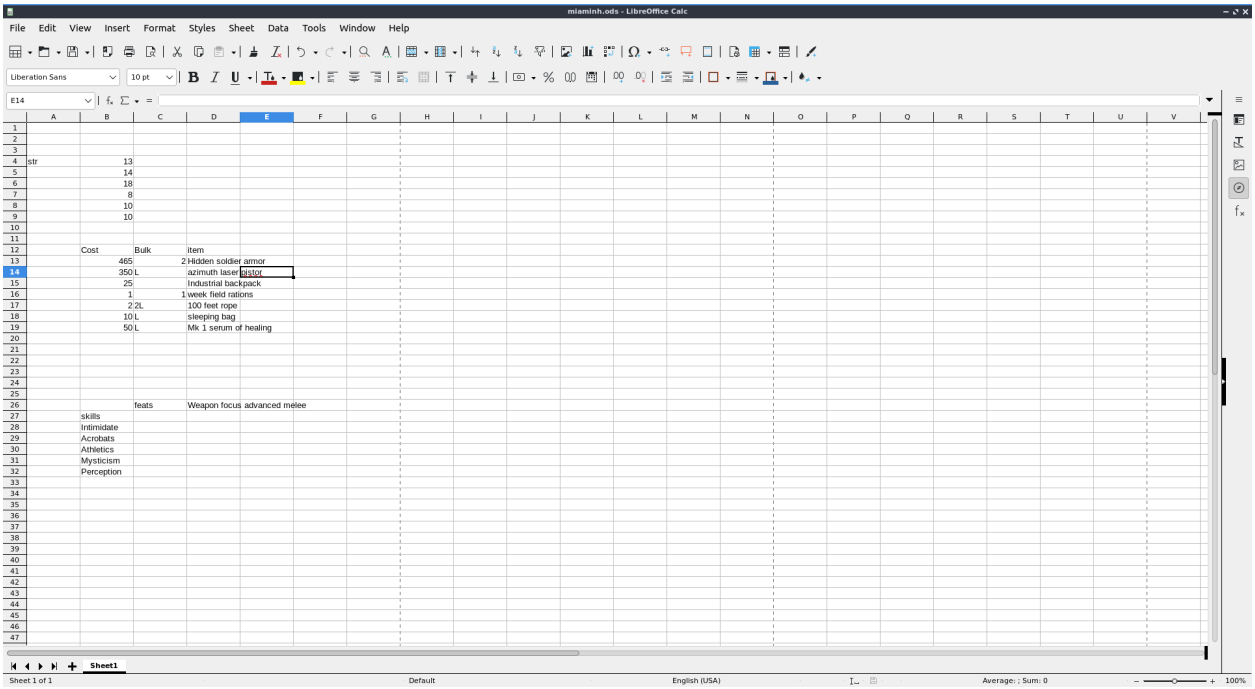
If you want to insert a new column to the left of a column right click on the letter for the column Insert Column Before. If you want the new column to the right is right click on the letter and Insert Column After. To insert a row above the current row right click on the number and Insert Row Above. To insert a row below the current row right click on the number and Insert Row Below. To delete a row or column right click the number and select Delete rows or Delete Column.

To change the size of a row or column of cells click in between the border of that particular row or column and drag with the mouse to give yourself room.

To sort your data like a bunch of names first select all the cells with the mouse Data ▸ Sort Ascending. If you want the reverse order to this you can have Data ▸ Sort Descending.

To undo a selection press `control +z` or press the button with the arrow looping around and pointing to the left. To redo an operation press `Control +y` or the number looping to the right and exiting to the left.

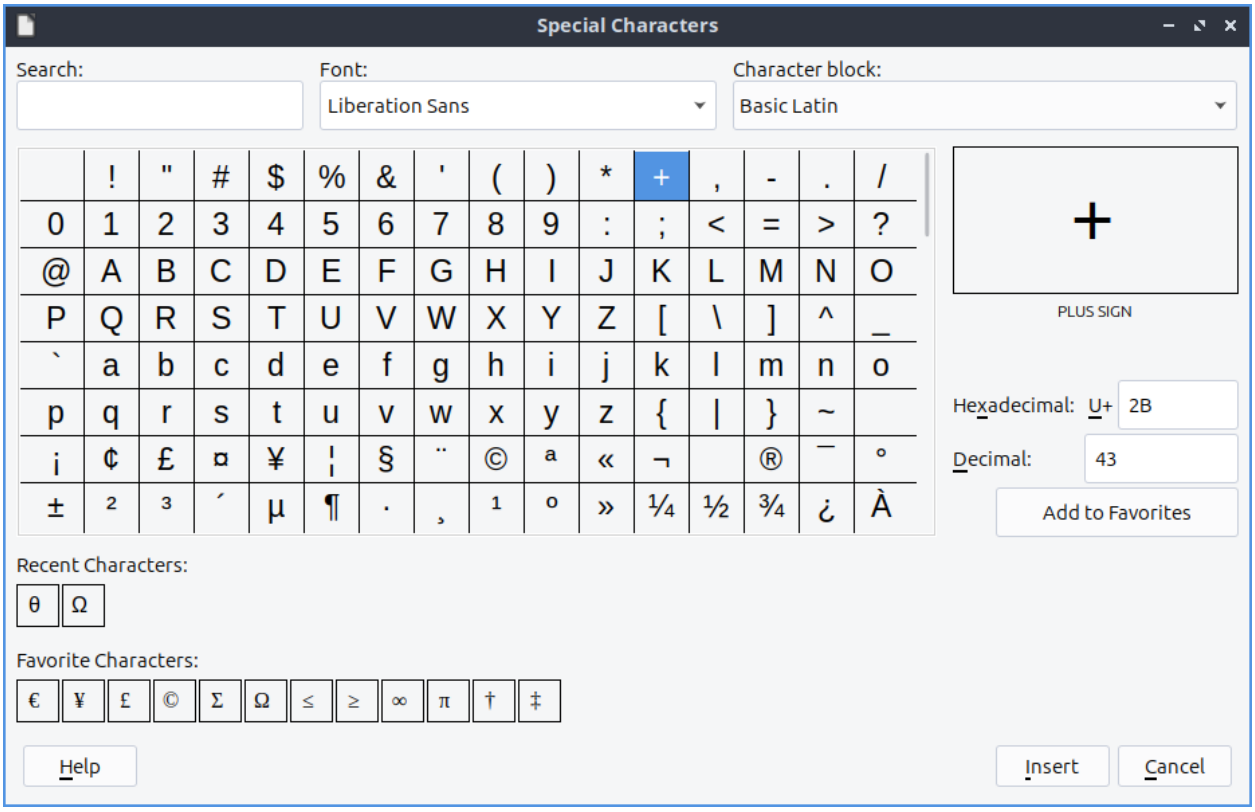
To zoom to view a full page on your spreadsheet in the menu View ▸ Zoom ▸ Entire Page. To view the whole width of your page on the menu View ▸ Zoom ▸ Page Width. To zoom to a particular percentage View ▸ Zoom and select the percentage you want. Another way to change your zoom is the slider in the bottom right hand corner. To zoom in move the slider to the right and to zoom out move the slider to the left. To see your current zoom is in the bottom right hand corner. To bring up a more zoom options right click and select which zoom you want.



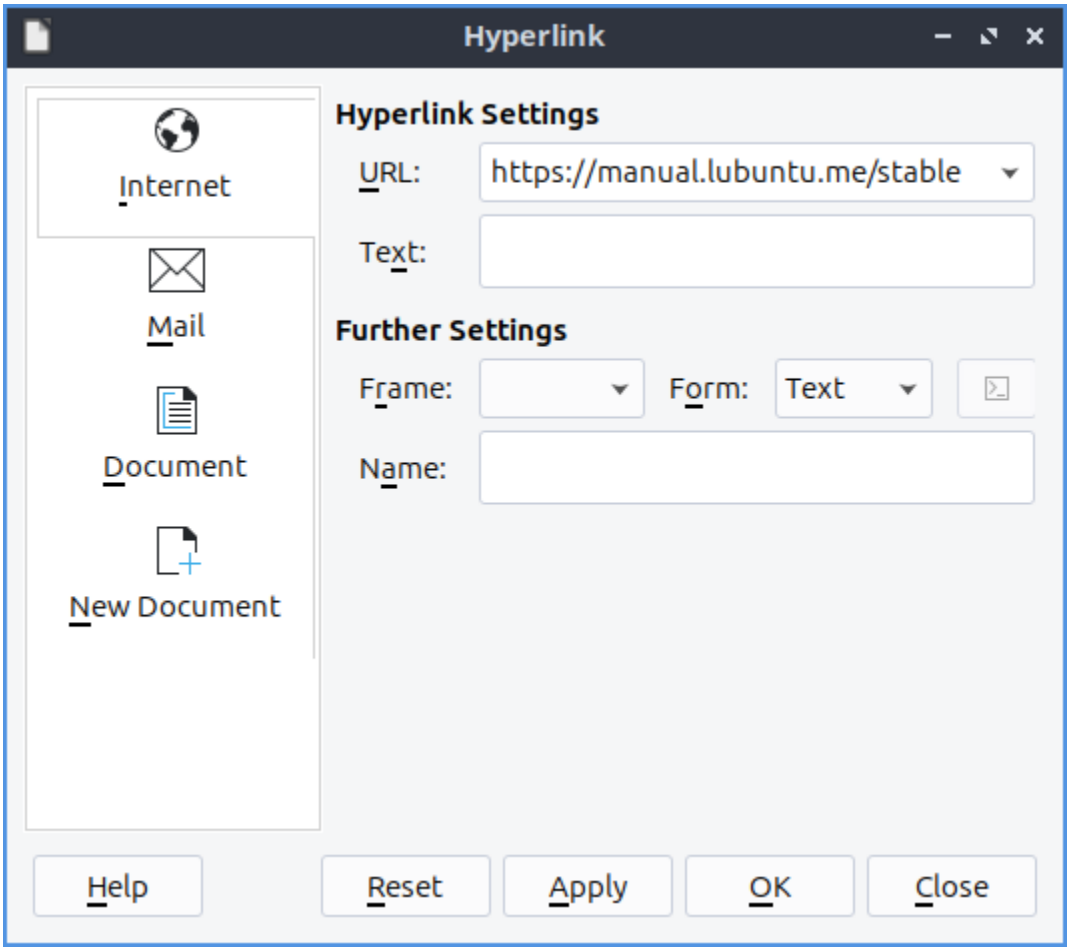
To select all cells in your spreadsheet press `Control+A`. To select an entire column press `Control+Space` or Edit ▸ Select ▸ Select Column. To select an entire row press `Shift +Space` or Edit ▸ Select ▸ Select Row.

To create a new spreadsheet in the same file press the button on the bottom that looks like a + or Sheet ▸ Insert Sheet. To switch between each sheet press the button on each sheet at the bottom near the button to add a new sheet.

To insert a special character not on your keyboard Insert ▸ Special Character. To select what character to insert left click in the center of the inserting character window. To search for a symbol type your search term into the Search field. To chose which group of symbols to choose from use the Subset drop down menu. To actually insert the symbol press the Insert button.



To insert a hyperlink in LibreOffice Calc Insert ▸ Hyperlink or press `Control+K`. To actually type the address in the URL field. To switch to a button for the hyperlink use the Form button. To switch back to text use the Form drop down and select Text.



To make text bold in LibreOffice Calc press `Control + B` or Format ▸ Text ▸ Bold. To make text italic press `Control + I` or Format ▸ Text ▸ Italic. To have your text have a single underline Format ▸ Text ▸ Single Underline.

To align text in the center of the cells press `Control +E` or Format ▸ Align Text ▸ Centered. To align text in the cells to the right of the cell press `Control +R` or Format ▸ Align Text ▸ Right. To switch the text back to being on the left press `Control +L` or Format ▸ Align Text ▸ Left. To align text so that the edges of each cell all line up with being stretched in the center press `Control + J` or Format ▸ Align Text ▸ Justified. To align text to the top of the cell Format ▸ Align Text ▸ Top. To center thee text vertically in the cell Format ▸ Align Text ▸ Center. To align text to the bottom of a cell Format ▸ Align Text ▸ Bottom.

To format your cells for a number with two decimal places press `Control+Shift+1` or Format ▸ Number Format ▸ Number. To format a number as a percent press `Control+ Shift+ 5` or Format ▸ Number Format ▸ Percent. To format a cell as currency press `Control + Shift + 4` or Format ▸ Number Format ▸ Currency. To format a cell as a date press `Control+ Shift+ 3` or Format ▸ Number Format ▸ Date. To format a cell as time Format ▸ Number Format ▸ Time. To format the cell in scientific notation press `Control + Shift + 2` or Format ▸ Number Format ▸ Scientific. To switch your formatting back to the general default press `Control+ Shift +6` or Format ▸ Number Format ▸ General. To add a thousands separator to your number Format ▸ Number Format ▸ Thousands Separator.

To toggle hiding the formula bar View ▸ Formula Bar. To toggle viewing the status bar at the bottom View ▸ Status Bar. To toggle showing the headers that show what each cell is like a4 View ▸ View Headers. To toggle viewing gridlines View ▸ View Grid Lines.

To add a new spreadsheet quickly at the end press the + button at the bottom. To switch between different sheets left click on the sheet name at the bottom bar. To delete a sheet you added right click on it :menuselection:` Delete Sheet` and then confirm you are deleting that sheet. To rename a sheet right click on the sheets name and Rename Sheet. To see which sheet you are on it will be underlined at the bottom bar and also say how many sheets along the bottom bar.

To insert a comment press `Control + Alt +C` or Insert ▸ Comment. To then type the comment in the yellow popup. To toggle viewing your comments View ▸ Comments.

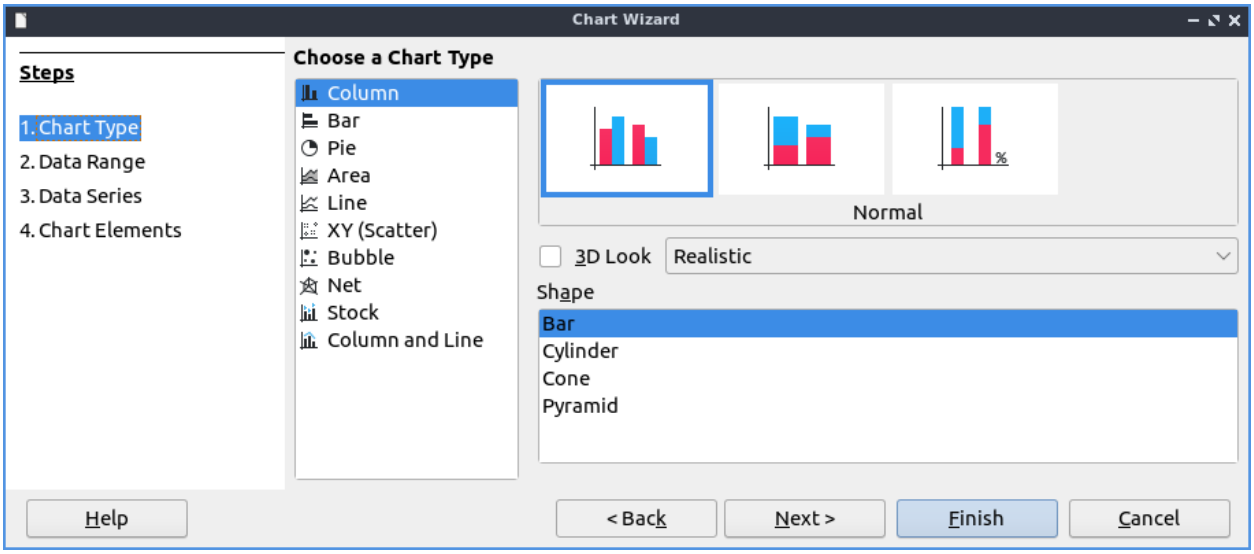
To quit LibreOffice Calc press `Control+Q`.

To open a print preview of your spreadsheet press `Control+ Shift + O` or File ▸ Print Preview. To preview your spreadsheet in a web browser File ▸ Preview in Web Browser.

To print your spreadsheet press `Control +P` or File ▸ Print. To choose which printer use the Printer drop down. To choose how many pages to print use the Pages field. To change the number of copies you print change the Number of Copies field. To select a paper size use the Paper size drop down. To change which orientation for your paper use the Orientation drop down. To actually print press the Print button.

Charts

To get to the dialog of how to insert a chart Insert ▸ Chart. The first selection is to choose a Column, Bar, Pie, Area, Line, XY(Scatter), Bubble, Net, Stock, or Column and Line chart. To change the subtype of graph click the picture of a chart that looks like the type you want. To switch to the next step of making a graph press the Next button.



The Data Range tab controls what data will be in the chart and how present it. To switch to basing the bottom axis of your chart on rows of data press the Data series in rows button. To choose to switch your bottom axis of your chart on columns press the Data series in columns button. To use the first row as a label on each item on the chart check the First row as label checkbox. To input a custom title on the first column of your chart check the First column as Label checkbox.



The Chart Elements tab controls labels and displaying legends on your chart. To add a title to your chart type your title in the Title field. To add a subtitle to your chart type it in the Subtitle field. To add a label to your horizontal axis type your label in the X axis field. To label your vertical axis type your label in the Y axis field. To have a vertical grid lines on your chart check the X axis checkbox. To have horizontal lines on your grid check the Y axis checkbox. To toggle displaying a legend on your graph check the Display legend checkbox. To move the legend to the left hand side press the Left button. To move the legend to the right hand side press the Right button. To move the legend to the top of the chart press the Top button. To move the legend to the bottom of the chart press the Bottom button.



Version

Lubuntu ships with version 25.8.4 of LibreOffice Calc.

How to Launch

To launch LibreOffice Calc from the menu go to Office ▸ LibreOffice Calc or run

```
localc
```

from the command line. The icon for LibreOffice Calc is a piece of paper with a green icon with a spreadsheet on it.

Chapter 2.2.3 LibreOffice Draw

LibreOffice Draw is the drawing portion of LibreOffice.

Usage

To draw a line left click on the single line button on the toolbar on the left or Shape –> Line. Then click at one point where you want the line to start and move with the mouse to where you want it to end. To draw a rectangle left click on the rectangle button on the left bar or Shape –> Rectangle. Then click on one corner of the rectangle and then more the mouse to the other corner diagonally of where you want the rectangle. To draw an ellipse left click on the ellipse button on the left bar or Shape –> Ellipse. Then left click on one side of the ellipse and move the mouse to where you want the other side of the ellipse to end. At the end of drawing something it will be selected and you can move and resize it as you wish.

To switch to a selection tool left click on the mouse cursor image on the left bar. To move what you have selected left click and drag it to where you want it. To resize an item keeping its proportion left click on a corner of the boxes that show up and click and drag to the desired side. To squish or stretch while resizing something click on corner on the side and the click and drag to the desired size. To delete an selected part press `delete` while you have it selected.

To draw an arrow click on the Left Pointing Arrow button on the left bar. To choose among many different arrows Shape ▸ Insert ▸ Block Arrows. To change which type of arrow click on the drop down and left click on the arrow to select that kind. Then left click where to put one end of the arrow and then move the mouse to the other end of the arrow. To draw a few different shapes click the Shape button on the left bar. To choose a different shape click on the drop down next to the shape. The click where you want the shape and move the mouse to choose how big to make the shape. More shapes can also be chosen from Shape ▸ Insert ▸ Basic Shapes.

To change the color of your line press the lines, dots, and drops dropdown menu to choose many different colors. To choose your color for things filled in press the dropdown underlined bucket button on the left bar. To switch to a color left click on it. To switch to a recently used color click on the color under Recent. To select a custom color click on Custom color.

To insert a star or banner Shape ▸ Insert ▸ Stars and Banners and select your star or banner or press the Star button and select which one with the drop down next to it. Then use the mouse to choose how big to make your star.

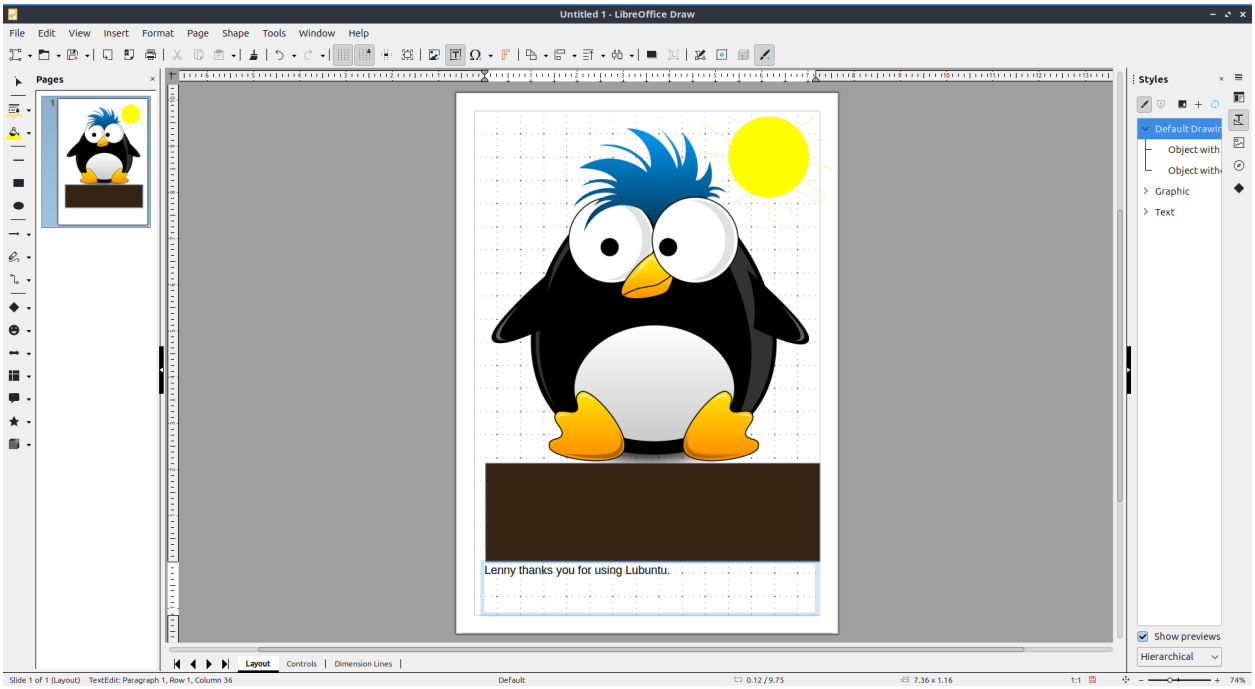
To insert a 3d object into your drawing Shape ▸ Insert ▸ 3D objects or the 3D Objects button on the bottom of the left bar. Then choose the size of your 3d object with the mouse.

To rotate an object select it and Shape ▸ Rotate, right click and select Transformation ▸ Rotate. Then left click on the corner to spin an object around. To change the axis of where you are rotating an object move the dot in the center to change the center of rotation.

To flip a shape vertically Shape ▸ Flip ▸ Vertically or right click Flip ▸ Vertically. To flip a shape horizontally Shape ▸ Flip ▸ Horizontally or right click Flip ▸ Horizontally.

To move the alignment all the way to the left of a page Shape ▸ Algin Objects ▸ Left. To move an object to the center Shape ▸ Align Objects ▸ Centered. To move an object to the right of the page Shape ▸ Align Objects ▸ Right. To move an object to the top Shape ▸ Align Objects ▸ Top. To move an object to the center vertically Shape ▸ Align ▸ Center. To move an object to the bottom Shape ▸ Align Objects ▸ Bottom.

To insert a textbox press F2, press the button with a T in a box, or Insert –> Text box. Drag the text box into what shape you want it. Then type the text you want in the text box.



To save your drawing press Control+s, press the Floppy disk button, or File ▸ Save. To save your file as a separate name press Control+ shift + s or File ▸ Save As. To open a file press Control +O, the Folder button, or File ▸ Open. To save your file in a different format press the rectangle with the rightward pointing arrow or File –> Export. To export the file into a PDF directly press the button with the black rectangle and a bent corner on a piece of paper or File –> Export As –> Export Directly as PDF.

To undo if you make a mistake press Control + Z, press the u shaped arrow pointing to the left button, or Edit ▸ Undo. If you want to redo something you undid press Control+ Y, press the u shaped arrow pointing to the right button, or Edit ▸ Redo.

To cut or copy something first select it. Then to copy press Control+C or Edit ▸ Copy. To cut press Control+ X or Edit ▸ Cut. To paste press Control+ V or Edit ▸ Paste.

To toggle showing a grid press the Grid button on the toolbar or View –> Grid and Helplines –> Display Grid. To bring the grid to the front of the drawing View ▸ Grid and Helplines ▸ Grid to Front.

To change properties of your line select the line and then select Line or Format –> Line. The Line tab has settings for your line. To choose your style for your line choose one from the

Style drop down. To change the color of your line use the Color drop down. To change how wide your line is change the Width field. To change transparency of your line change the Transparency.

To add a shadow to your line use the Shadow tab. To add a shadow check the Use shadow checkbox. To change the color of the shadow change the Color drop down. To change which side the shadow is press the button towards which side you want the shadow to appear. To preview your shadow look on the right hand side of the window. To change how far the shadow is from the object use the Distance field. To blur your shadow change the Blur field. To change the opacity of your shadow use the Transparency field.

To change the style of your line use the Line Style tab. To change the line style use the Line style drop down.

To change change the settings for your shape right click and select Area. The Area tab has settings for how your shape appears. To choose a color use the Color button. To select a color in your pallette left click on that color in the pallet. To change your pallette select in the Palette drop down. To choose a recent color left click it under Recent Colors. To change to a particular color in a color picker window press the Pick button. To view your current color see the Active column. To see what color you are changing to view the New column. To change the amount of red in your color change the R field. To change the amount of green in your color change the G field. To change the the amount of blue in your color change the B field. To enter a particular hex code for a color enter it in Hex field.

To give your shape a gradient of colors press the Gradient button. To select a type of Gradient left click on it under the Gradient on the left hand side. To view how the gradient will look view Preview. To change how the gradient changes shape change the Type drop down. To change how quick one color changes to the next use the Increment field. To change where the gradient is center use the Center field. To change what angle your gradient is at change the Angle field. To change how far to start a transition change the Transition start field. To chose the starting color for your shape use the From Color. To choose another color for your area choose the To Color. To change the opacity of your color change the percent field to the right of your color.

To have an image for your area use the Image button. To choose a preselected image use the Image on the left hand side. To add a saved image for your shape press the Add/Import button. To view how your image will appear view the Preview column on the right. To select having the image repeat the bigger it is select Tiled under Style. To choose to strech an image to the size of your shape select Streched under Style. To move your image to a particular position on the sahpe select Custom position/size.

To choose a pattern for your area press the Pattern button. To choose a preselected pattern left click under Pattern on it on the left hand side. To preview your pattern look at it under Preview. To change your foreground color of the pattern change Foreground Color field. To change the background color of your pattern change the Background Color field. To change which which part of your pattern is which color left click on where you want left click on that part to choose between the foreground or background color.

To choose a hatch pattern use the Hatch button. To choose a hatch pattern left click on the hatch pattern under Hatch. To view your hatch pattern look at it under Preview. To change how big the hatches are change the Spacing field. To rotate the hatch pattern change the Angle. To change which type of line to use for your hatch pattern change the Line type field. To choose the color of your lines change the Line color field. To have a background color of your hatch pattern check the Background color checkbox and then select your background color in the drop down.

To add a shadow to your shape use the Shadow tab. To use shadow check the Use Shadow checkbox. To view your shape use the Preview on the right side. To choose what side your

shadow is on click the corner you want the shadow to be on. To choose the color of your shadow use the color field. To choose how far your shadow is from your image change the Distance field. To blur your shadow change the Blur field. To change how transparent the shadow is change the Transparency field.

To zoom in and out there is a zoom bar on the bottom right. To zoom in move the zoom bar towards the +. To zoom out move the zoom bar towards the -. The current zoom is displayed to the right of the zoom bar. To zoom to see the entire page View ▸ Zoom ▸ Entire Page. To zoom to the width of the page View ▸ Zoom ▸ Page Width. To return to your previous level of zoom :menuselection:` View –> Zoom –> Zoom Previous`. On the bottom right hand corner there is a bar to adjust the zoom. In the right of this bar shows the current zoom. Move the bar to the right to zoom and to the left to zoom out. To set the zoom back to your default view press the four arrows in different directions button. To choose to switch your current zoom right click on your current zoom and select a new zoom.

On the left there is a sidebar that shows your a summary of each page of a drawing. To add a new page right click on the page sidebar and select New Page or Page ▸ New Page. To switch between pages left click on the page you want to switch to on the left hand side. To delete a page right click on the page sidebar and select Delete Page. To duplicate your page right click on the page on the sidebar and select Duplicate Page. To rename a page right click on the sidebar and select Rename Page.

To toggle showing rulers in LibreOffice Draw press `Control+ Shift + R`, View ▸ Rulers, or right click and select Rulers.

To print a drawing press `Control+P` or File ▸ Print. To select your printer use the Printer drop down. To change how many copies to print change Number of copies. To change your paper size choose the Paper size menu. To preview what you are printing view the left side of the window. To actually print choose the Print button.

Version

Lubuntu ships with version 25.8.4 of LibreOffice Draw.

How to Launch

To launch LibreOffice Draw Office ▸ LibreOffice Draw or run

```
lodraw
```

from the command line.

Chapter 2.2.4 LibreOffice Impress

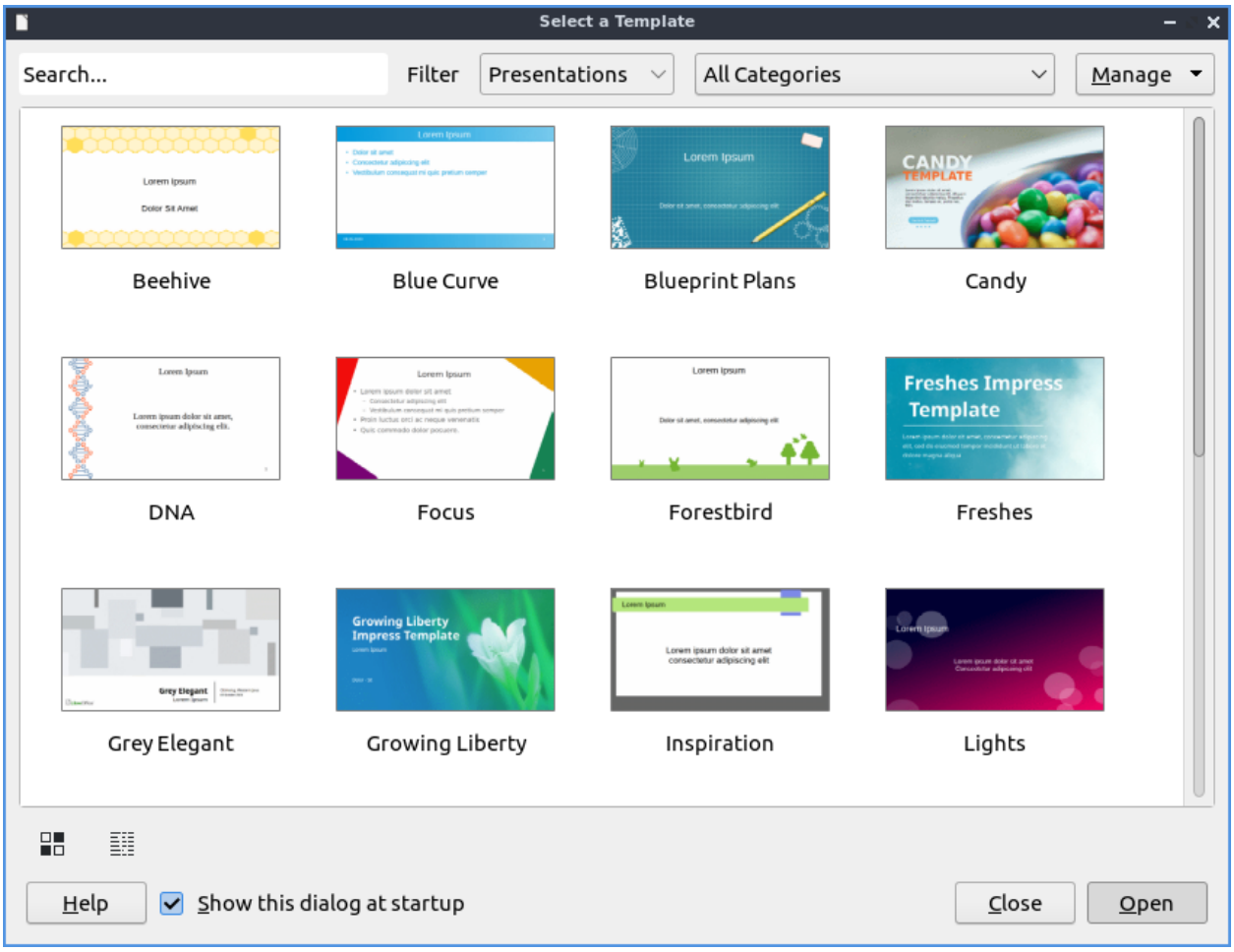
LibreOffice Impress is the program to present presentations on Lubuntu.

Features include:

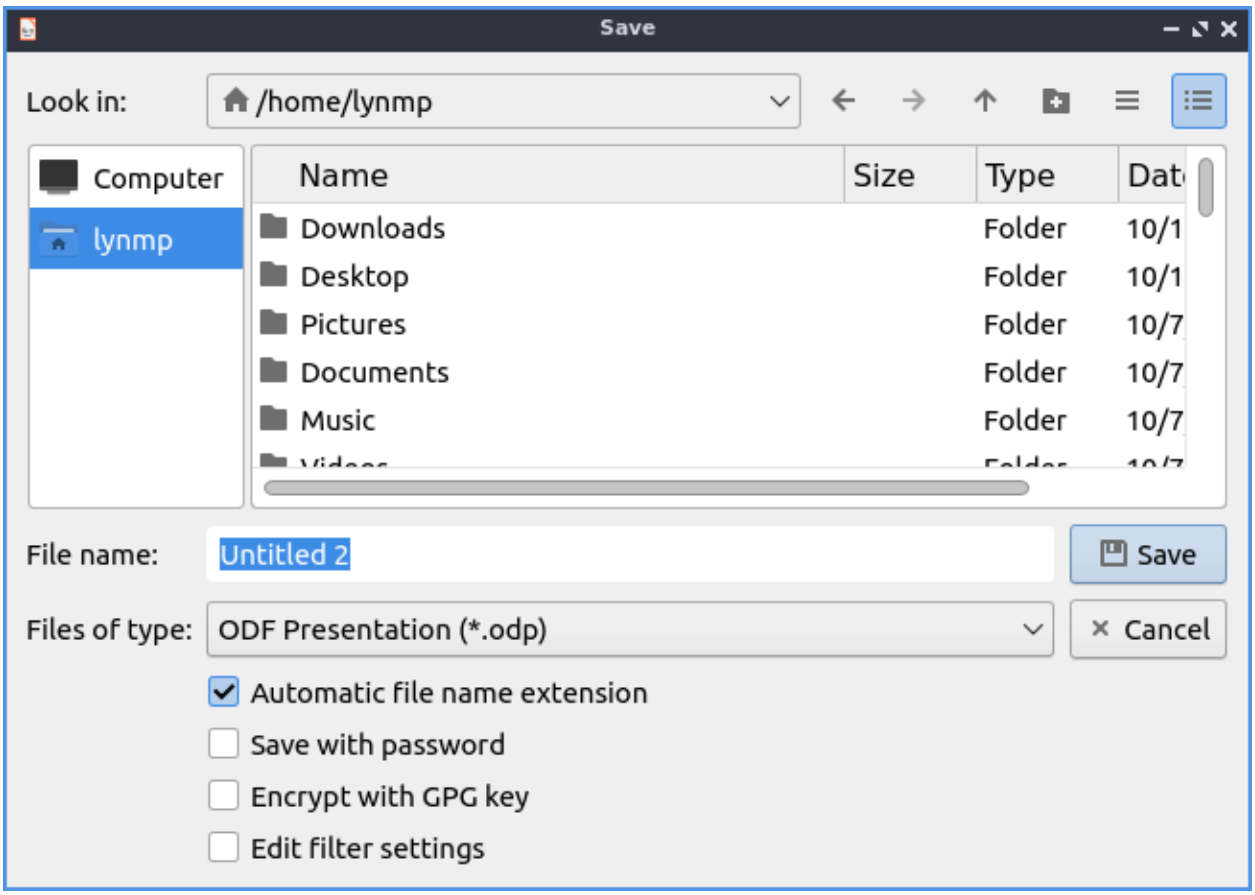
- Built in themes
- Spell check
- PDF export
- Images

Usage

When you open LibreOffice impress you will get a dialog to select a template with a preview select which one you want to use by left clicking and then click Open. If you want to search for a theme type into the Search towards the upper left. To not show the presentation template at startup uncheck the Show this dialog at startup checkbox. To add a title to a slide click where it says click to add title.



To open a previous presentation you have been working on press the button that looks like a folder with a piece of paper in it and navigate to the file you want and open it or File ▸ Open. To view your recently opened files press File ▸ Recent Documents. To open a new presentation press `Control + N` or File ▸ New ▸ Presentation. To save your presentation press the button that looks like a floppy disk or File ▸ Save. To save a new copy under a custom file name File ▸ Save As. To save a file as a PDF File ▸ Export as PDF.



To type text into a presentation click in one of the boxes for your theme and type in the text with controls for the text on the right hand side. To insert a picture press the button with what looks like a photograph of a tree and select the file you want to insert or Insert ▸ Image…. To insert audio or video to your presentation Insert ▸ Audio or video and a file dialog will popup for you to pick a file. If you don't want a music symbol to show on your presentation when presenting drag it outside the margins of the slide.

To add a new slide to your presentation press `Control+M`, right click on the side pane New Slide, or Slide ▸ New Slide. To delete a slide Slide ▸ Delete Slide, or right click on the slide in the side pane Delete Slide. To change the layout of your slide Slide ▸ Layout ▸ Your preferred layout. To set an image as the background of your slide Slide ▸ Set Background Image.

To move to the next slide press `Page down`, Slide ▸ Navigate ▸ To Next Slide, or right click on a slide in the side pane Navigate ▸ To Next Slide. To move to your previous slide press `Page up`, Slide ▸ Navigate ▸ To Previous Slide, or right click on a slide in the side pane Navigate ▸ To Previous Slide. To go to the first slide Slide ▸ Navigate ▸ To First Slide or right click on the slide in the side pane Navigate ▸ To First Slide. To navigate to the last slide Slide ▸ Navigate ▸ To Last Slide.

To apply a bold effects on your fonts select the text with the mouse and then press `Control+B` or Format ▸ Text ▸ Bold. To make text italic with first select it and then press `Control + I` or Format ▸ Text ▸ Italic. To underline your text select it and then press `Control+U` or Format ▸ Text ▸ Underline.

To increase your font size press `Control + ]` or Format ▸ Text ▸ Increase Size. To decrease your font size press `Control + [` or Format ▸ Text ▸ Decrease Size. To make text superscript select it and press `Shift + Control +P` or Format ▸ Text ▸ Superscript. To make text subscript

select it and press Shift + Control + B or Format ▸ Text ▸ Subscript.

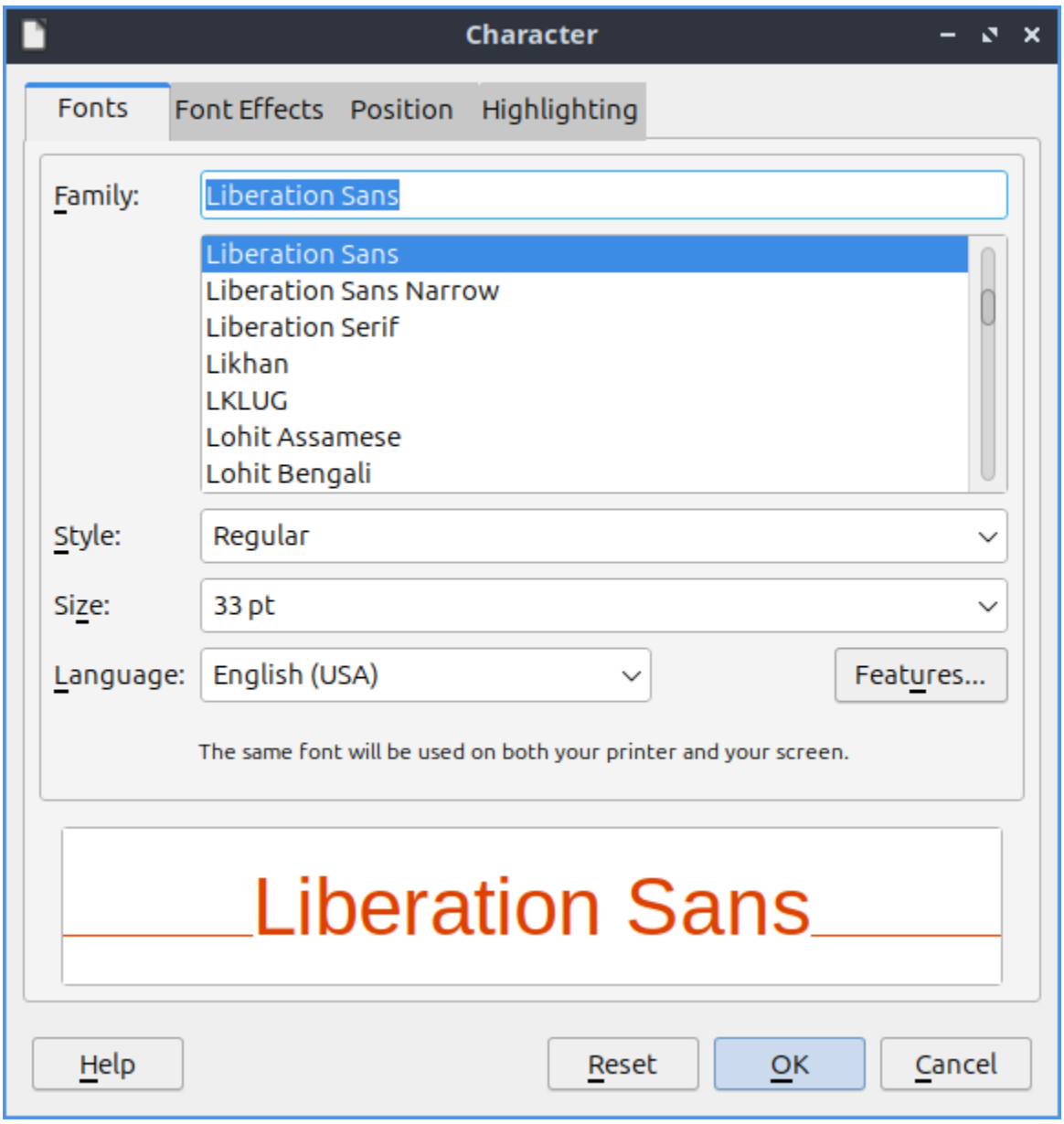
To spell check your presentation press F7 or Tools ▸ Spellcheck. To ignore a spelling mistake once press Ignore Once. To ignore all instances of a word press Ignore All. To add a word to the spellchecking dictionary press the Add to Dictionary button. To correct this typo press the Correct button. To correct every time this typo press the Correct All button.

If you want to print your slides you can press Control + p or File ▸ Print. To open up your printer settings File ▸ Printer Settings. A dialog will pop up with different settings for your printer. To chose which printer to print to use the Printer drop down menu. To change which slides use the Range and Copies button group. To change what paper size you are printing change the Paper size field. To change which way the paper is printed on change the Orientation field. To the left in a sidebar is a preview of what you will print. To view what page you are on and how many pages is in the bottom left of the sidebar.

If you want to paste text into a slideshow right click Paste, press Control + V, or Edit ▸ Paste. To copy text select it first and then press Control + C, right click Copy, or Edit ▸ Copy. To cut text select it first and the press Control +X, right click Cut, or Edit ▸ Cut. To paste text without formatting pres Control +Shift + Alt +V or Edit ▸ Paste Unformatted Text. To select all text press Control+A or Edit ▸ Select All.

To insert a special character Insert ▸ Special Character. To center your text press Control + E or Format ▸ Align ▸ Center. To have your text aligned to the right press Control +R or Format ▸ Align ▸ Right. To align text to the left press Control + L or Format ▸Align ▸ Left.

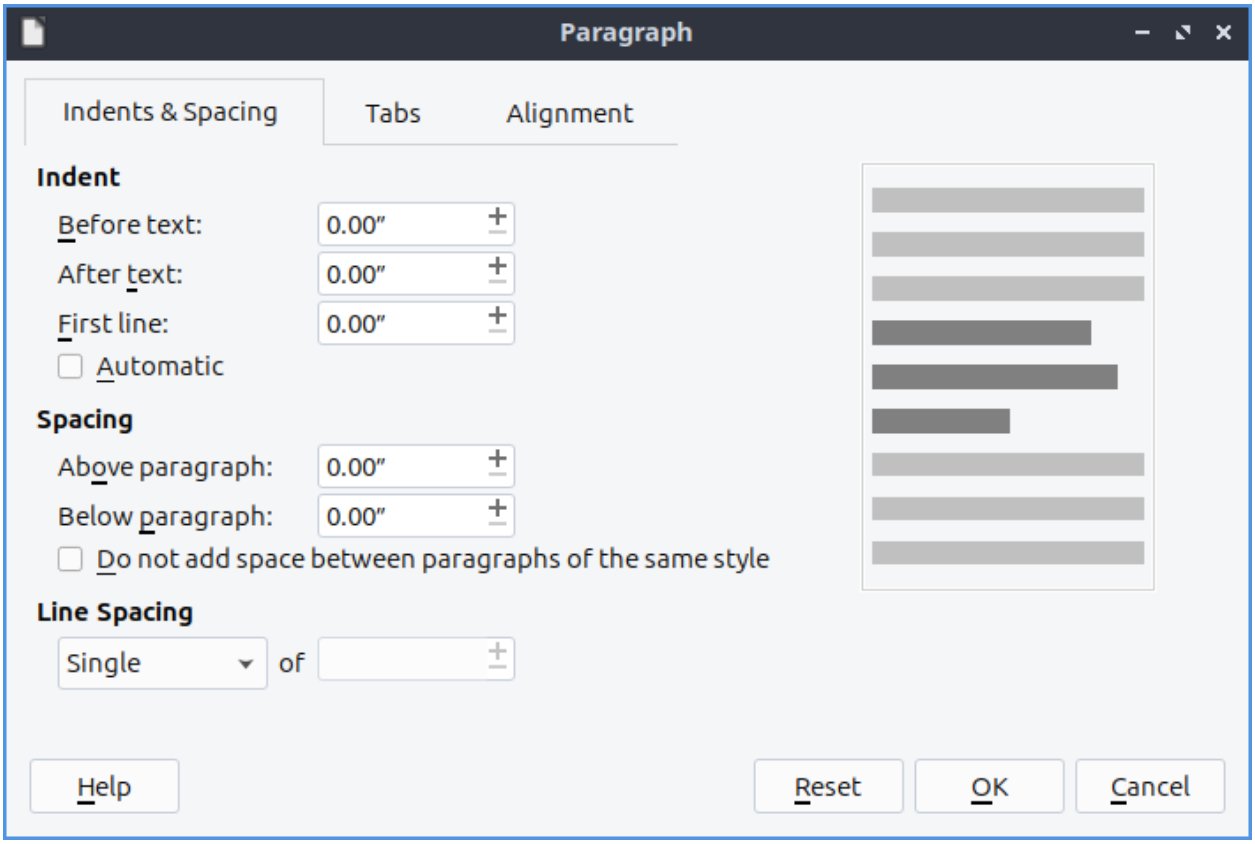
To bring up a dialog to customize the character or your text Format ▸ Character or right click on a textbox and select Character from the context menu. The Family lets you choose the font family for your text. The Style is where you can select the of your font. The Size Lets you change the font size. The Font effects tab has even more effects for fonts. The drop down Font Label changes your font color. The Overlining menu lets you make a style for how to draw lines over the text. The Overline Color brings up a drop down menu to choose what color to draw a line over something.



The Font Effects tab has effects for your text. To have many different strikethrough effects to your text select the one you want from the dropdown Strikethrough menu. To change whether the font appears to be sunken or raised from the presentation use the menu for Relief. To choose how you want your text underlined choose an option from the Underlining menu. To change the color of your underline use the Underline color menu. To have effects with how your is vertically with the rest of the line select the Position tab. To make your text superscript press the Superscript button. To make your text subscript press the Subscript button. The menu for Scale width changes how much to scale the width of the font.

To format the paragraphs and spacing of text Format ‣ Paragraph. The Indents & Spacing Tab has settings for indenting your text and the space between lines. To increase the indent right before the text starts increase the Before text field. To change the indentation after your text change the After text field. To have a different indent for your first line change the First Line filed. To change the amount of space above a paragraph change the Above paragraph field. To change the space below a paragraph change the Below paragraph field. To change the line spacing from this dialog window select the drop down menu Line Spacing. To reset

your changes in this window press the Reset button. To not apply your changes press the Cancel button. To apply your changes and exit the window press the OK button.



To change settings on the alignment of text is on the Alignment tab. To choose which way you want your text aligned choose the Left, Right, Center, or Justified. To switch between left to right or right to left text switch the Text direction menu.

To toggle bulleted lists on your points Format ▸ Lists ▸ Bulleted List. To toggle a numbered list for your points Format ▸ Lists ▸ Numbered Lists. To move an item up in list Format ▸ Lists ▸ Move Up or press `Shift + Alt + Up`. To move an item down in a list Format ▸ Lists ▸ Move Down or press `Shift + Alt + Down`.

To change your line spacing on your presentation Format ▸ Spacing ▸ Line spacing and select the spacing you want. To increase your spacing between paragraphs Format ▸ Spacing ▸ Increase Paragraph Spacing. To decrease your spacing between paragraphs Format ▸ Spacing ▸ Decrease Paragraph Spacing.

To move settings with a box of text left click on the border of the box of text. To move the text box click and drag on the border. To resize both vertical and horizontal size together left click on the corner and resize the text box. To resize how tall the text box is click the box at the top or bottom and drag to the desired size. To resize the horizontal size only select the box on a vertical size of the box.

To search for text press `Control + F` or Edit ▸ Find to search for text. To move to the next search press the downward pointing arrow and for the previous press the upward pointing arrow. To toggle matching case check/uncheck the Match Case checkbox. To close the find searchbar press the Red X button. To change which To find and replace text press `Control + H` or Edit ▸ Find and Replace. To move to the next result press the downward pointing arrow. To move to the previous result press the upward pointing arrow.



To move a text box around you can left click on the text box and drag it to the desired position. To resize a text box click on the corner and drag to resize to the desired size.

To insert the number of your slide Insert ▸ Slide Number.

To change the zoom of you presentation View ▸ Zoom ▸ Zoom to bring up a window to manage your zoom. If you just want to zoom to fit the page width View ▸ Zoom ▸ Page Width. To change your zoom to 100 percent View ▸ Zoom ▸ 100%. In the bottom right corner there is a slider for controlling zoom. To zoom in move the slider to the right and to zoom out move the slider to the left. To view your current zoom look at the bottom right hand corner. To quickly choose another zoom level right click on the current zoom.

To move a slide down Slide ▸ Move ▸ Slide Down. To move a slide up Slide ▸ Move ▸ Slide Up. To move a slide to the start Slide ▸ Move ▸ Slide to start. To move a slide to the end Slide ▸ Move ▸ Slide to end.

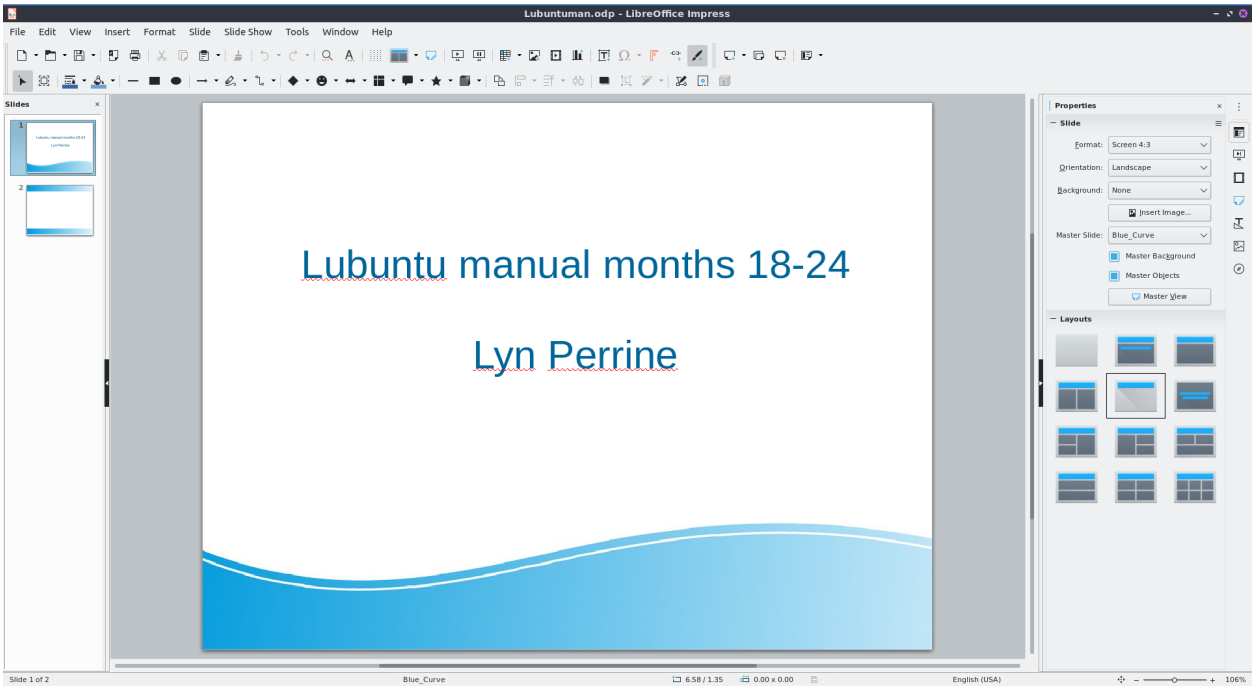
To view your slides right next to each other View ▸ Slide Sorter. To rearrange your slides click and hold a slide and drag the slide between the slides you want to move to. To have notes on each slide View ▸ Notes. Type your notes for each slide below the slide. To switch to an outline view of just text View ▸ Outline. To switch to an outline View ▸ Outline. To switch back to your normal view View ▸ Normal.

To change your view to grayscale View ▸ Color/Grayscale ▸ Grayscale. To view your presentation in black and white View ▸ Color/Grayscale ▸ Black and White. To switch back to color view View ▸ Color/Grayscale ▸ Color.

To insert a comment into a presentation press `Control + Alt +C` or Insert ▸ Comments. Then type your comment in the yellow note. To toggle viewing comments View ▸ Comments. To view just one comment simply left click on the area left click on the comment.

To quit LibreOffice impress press `Control+Q`.

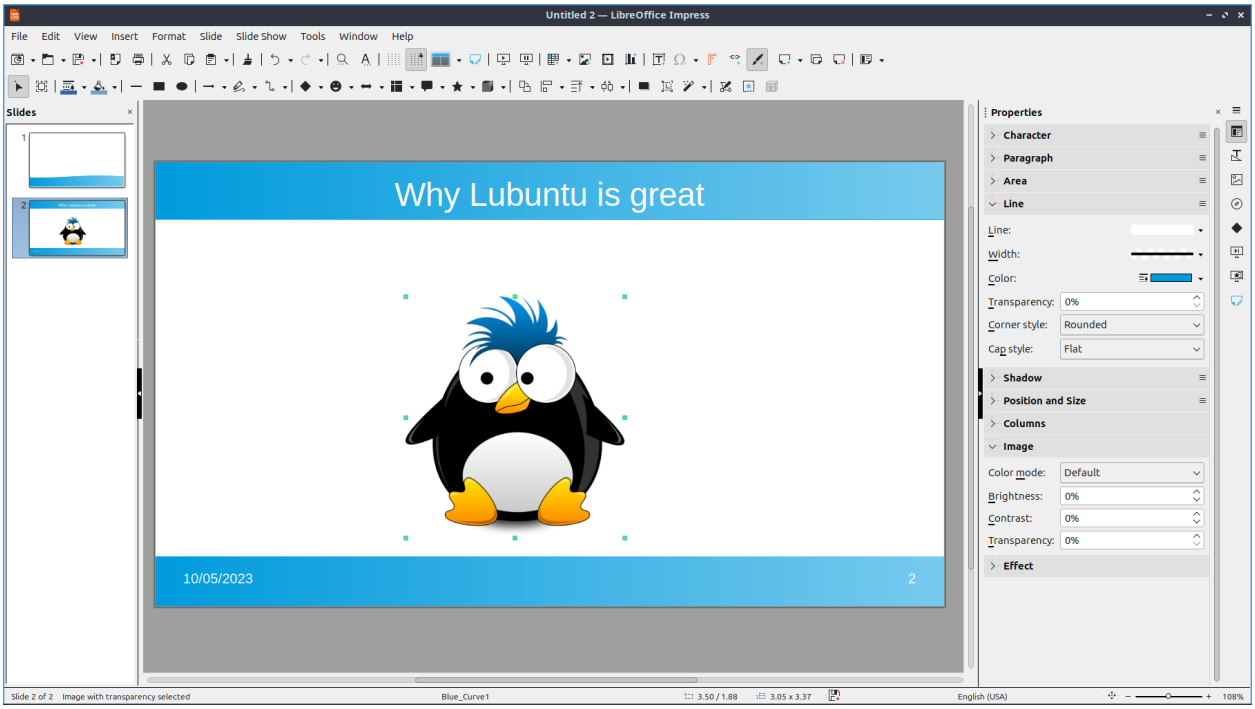
Screenshot



Images

To insert an image click Insert ▸ Image. To drag your image to where you want it left click and drag the mouse to where you want the image. To resize the image without distorting it click one of the boxes on the corner and resize to the size you wish. To move the image vertically which will distort it left click on the top or bottom boxes to resize the image vertically. To stretch your image horizontally to make it fit left click on the boxes on the left or right hand side to stretch your side. If you want to delete an image press `Delete`. To replace an image right click the image and Replace will bring a file picker up to pick a new image. To crop an image right click on the image and select Crop. To save an image out of a presentation right click on the image and select Save ….

To rotate your image in LibreOffice impress right click on the picture Rotate or Flip ▸ Rotate. To rotate the image on the screen horizontally left click on the corner and drag the image to orientation you want. To leave the corners on the opposite side in the same place and move left click on the orange circle on the opposite side and rotate the image that way dragging to the desired position. To change the center of where you rotate click and drag the orange dot in the center. To flip your image vertically right click on the image and select Rotate or Flip ▸ Vertically. To flip your image horizontally right click on the image and select Rotate or Flip ▸ Horizontally.

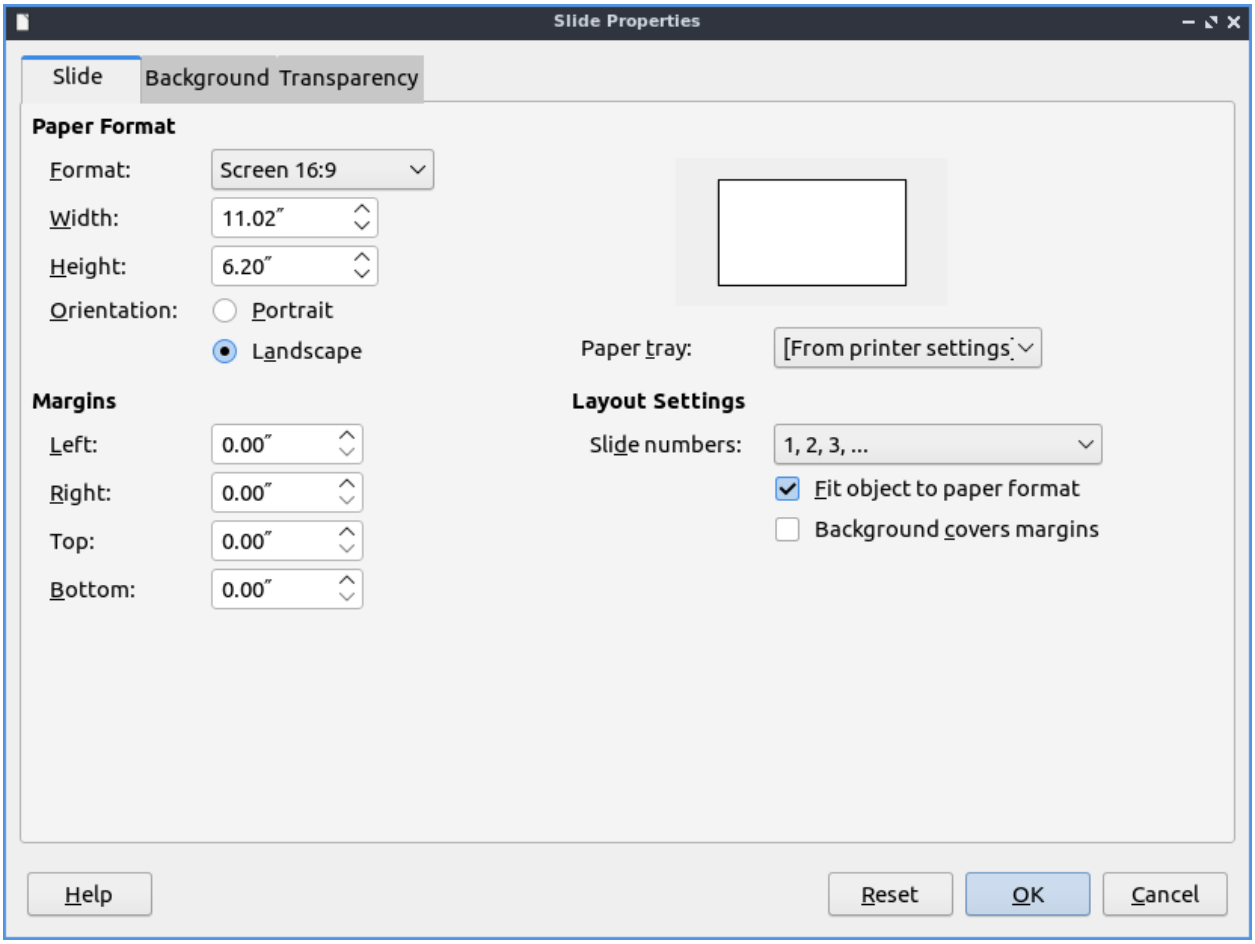


To send your picture to the back like if you want to put text in front of it Arrange ▸ Send to Back. To send your picture to the front right click on it and Arrange ▸ Bring to Front. To send an image behind one layer behind the other Arrange ▸ Send Backward. To bring an image forward one layer right click the image Arrange ▸ Bring Forward.

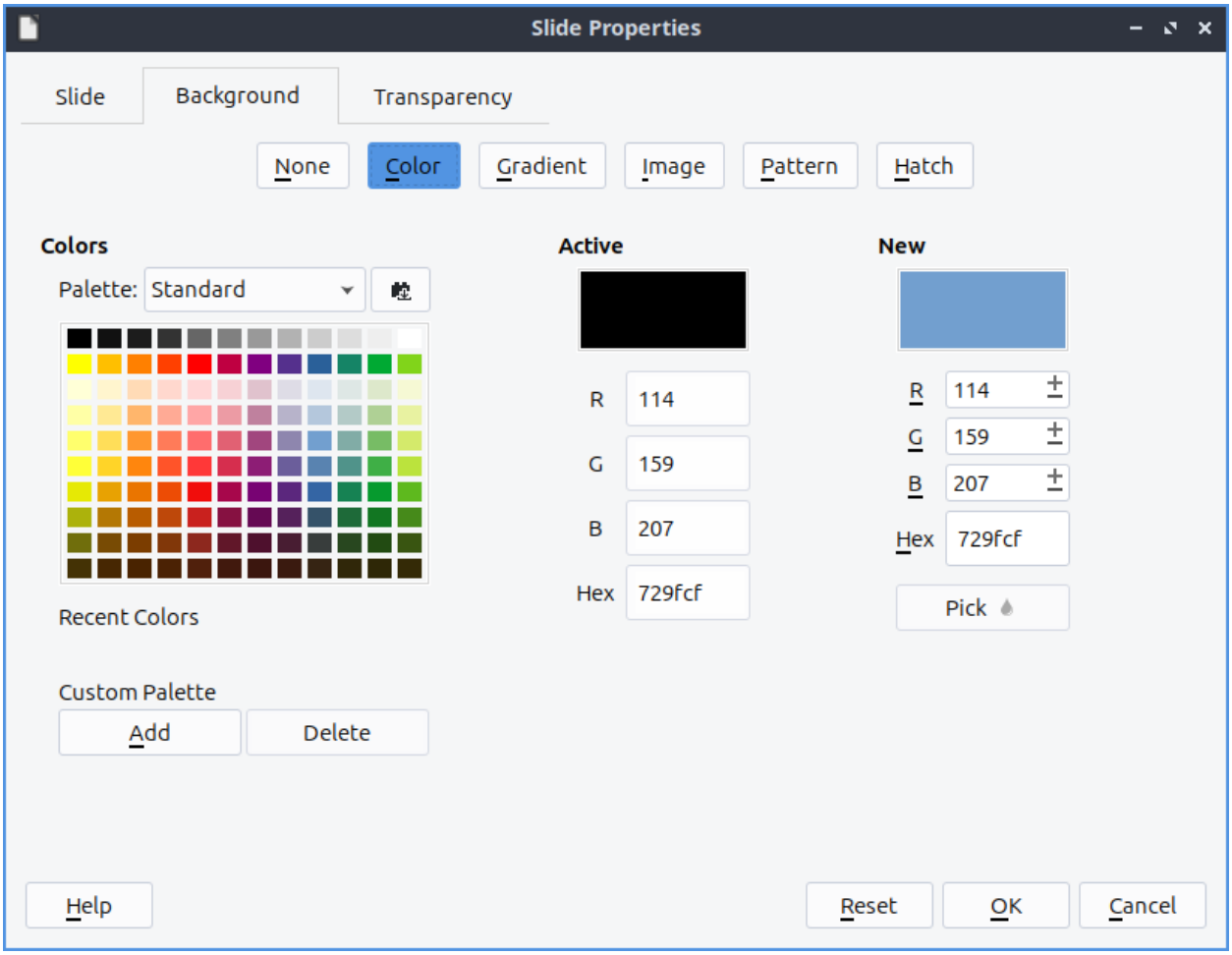
Slide Customization

To bring up a dialog for the properties of your slides controlling background and shape with Slide ▸ Slide Properties. To change the format for a different aspect ratio of projector or print format change the Format drop down menu. To select a custom width and height change the Width or Height. To switch to a portrait orientation press the Portrait button to the right of

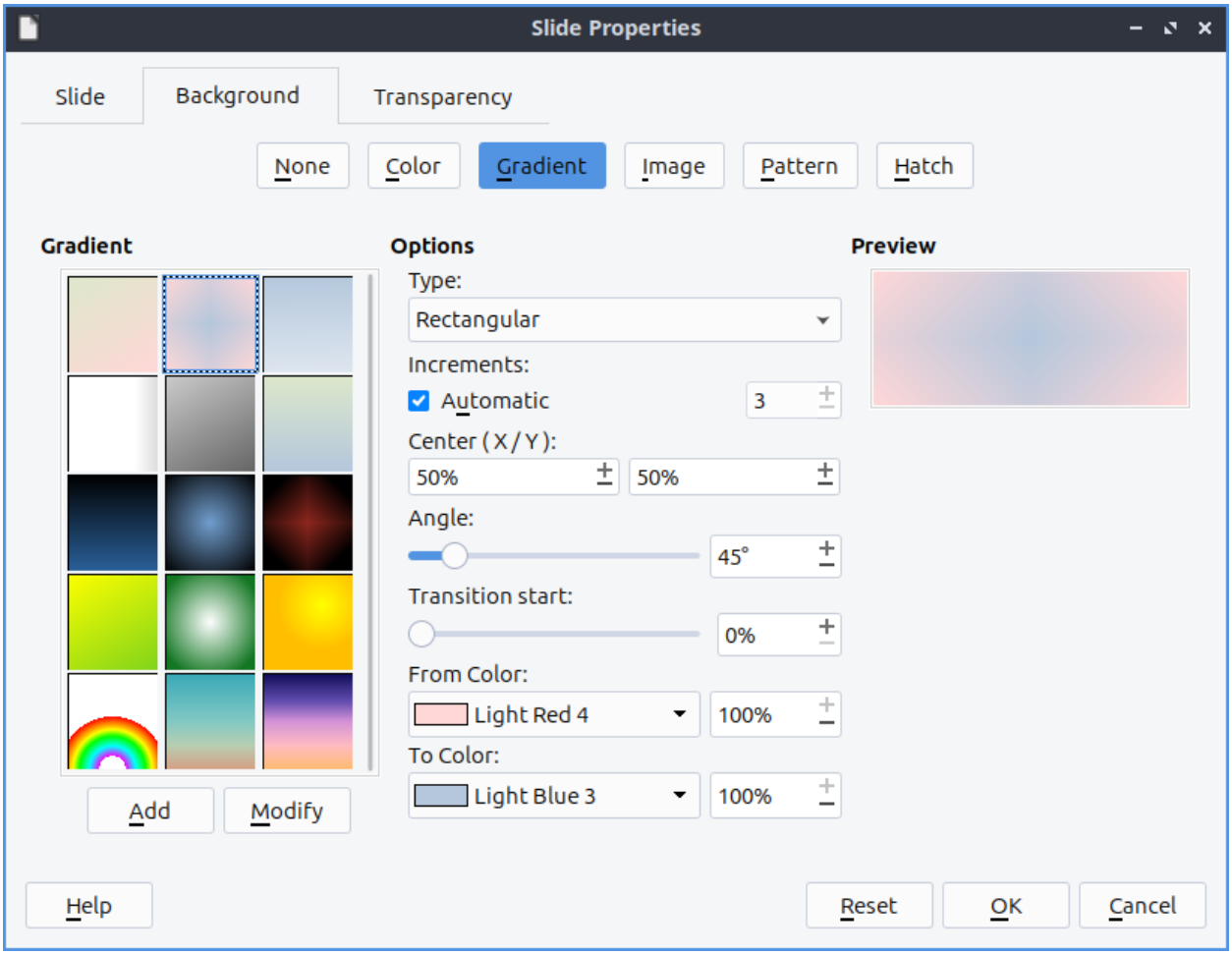
Orientation. To add margins to slides enter a margin in the Left, Right, Top, and Bottom. To change how slides are numbered change the Slide numbers field.



To change and choose a custom background use the Background tab. To choose a solid color background for your slide press the Color button. To choose a different background color choose a color below the Color heading. To change to a different color pallet change the Palette drop down menu. To see what your current background color of the slide is shown under the Active label. To see what color you want to change is under New as a preview of the new background color. To the individual red, green, and blue of your colors change the R. G, and B fields respectively. To change the hexadecimal code for the color change the Hex field. To actually change the color press the OK button. To cancel your change of background use the Cancel button.

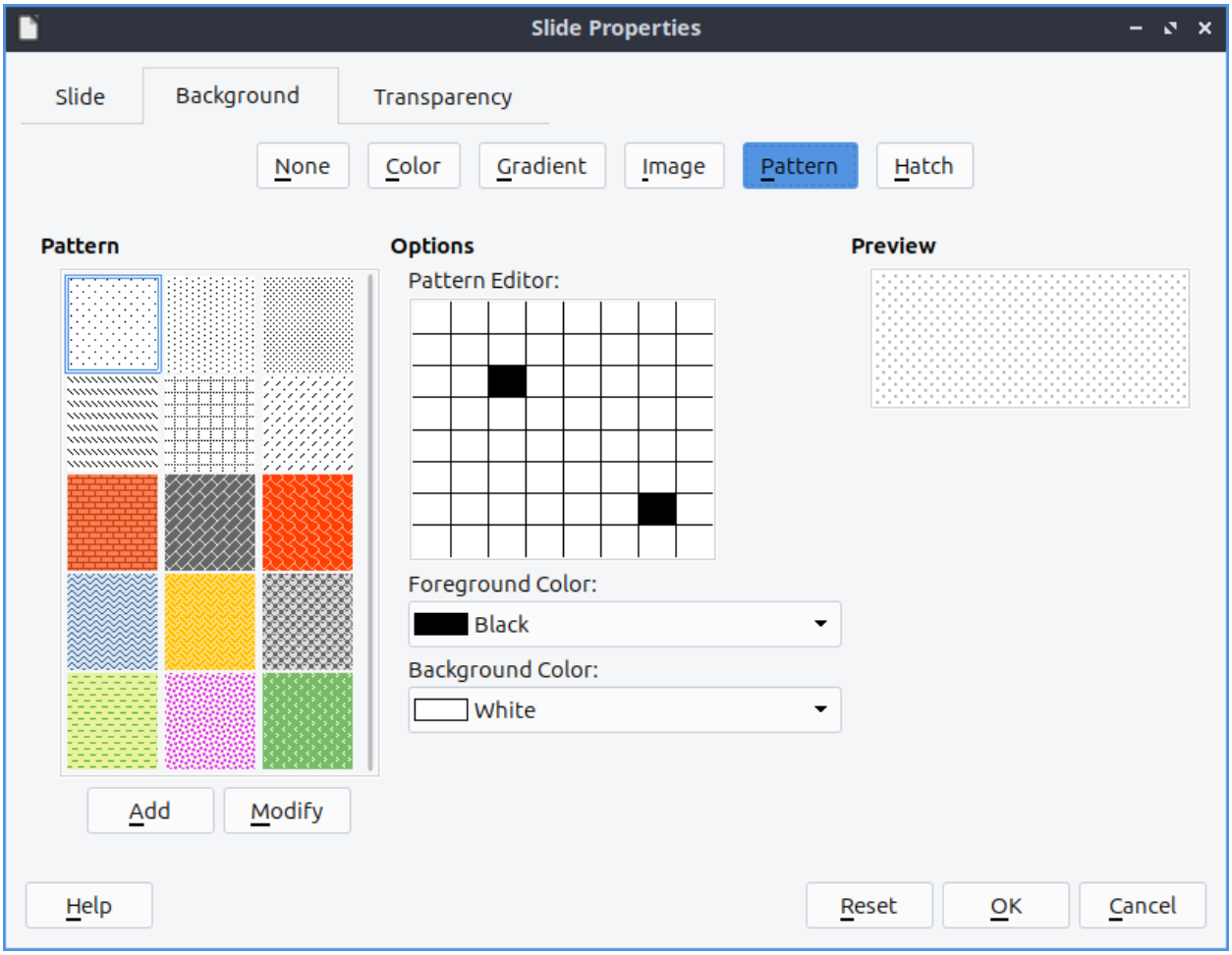


To choose a smooth transition use the Gradient button. To choose a preset gradient left click on the gradient on Gradient menu. To change the type of gradient use the Type and select it from the drop down menu. To see a picture of your background it is under the Preview text. To switch to manually changing the number of steps in the gradient uncheck Automatic checkbox and then change the Increment field. To change the center of the gradient change the two fields for Center(X/Y) to change the X and Y coordinates of the center. To rotate the gradient use the Angle field. To change your first color of your gradient change the From Color drop down menu. To change the second color of the gradient change the To Color drop down menu. To change the opacity of either color change the field that is a Percent for changing opacity. To change where the color starts change the Border field.



To choose a bitmap image as your background use the Bitmap tab. The Bitmap to the left shows you the bitmap pictures you can choose. The Preview shows you what your background will look like. To change what the bitmap does if it does not fit perfectly use Style drop menu. To scale as a percent of the image press the Scale checkbox. To change the where to start the bitmap change the Position drop down menu.

To change to a geometric pattern for the background of your slide press the Pattern button. To select a preset pattern left click on a pattern under the Pattern heading. To preview your pattern view in under the text Preview. To change the foreground color of your pattern change the Foreground Color drop down menu. To change the background color of your pattern change the Background Color drop down menu. To customize your pattern by a grid left click on the grid under Pattern Editor.



To choose a series of lines as your background press the Hatch button. To change how far between each line change the Spacing field. To view what your background will look like it is under the Preview window. To rotate the lines change the Angle field or move the slider. To change the type of lines use the Line type drop down menu. To change the color of lines use the Line Color drop down menu. To choose a particular background color of your background check the Background Color checkbox. Then use the Background Color drop down menu to choose your background color.

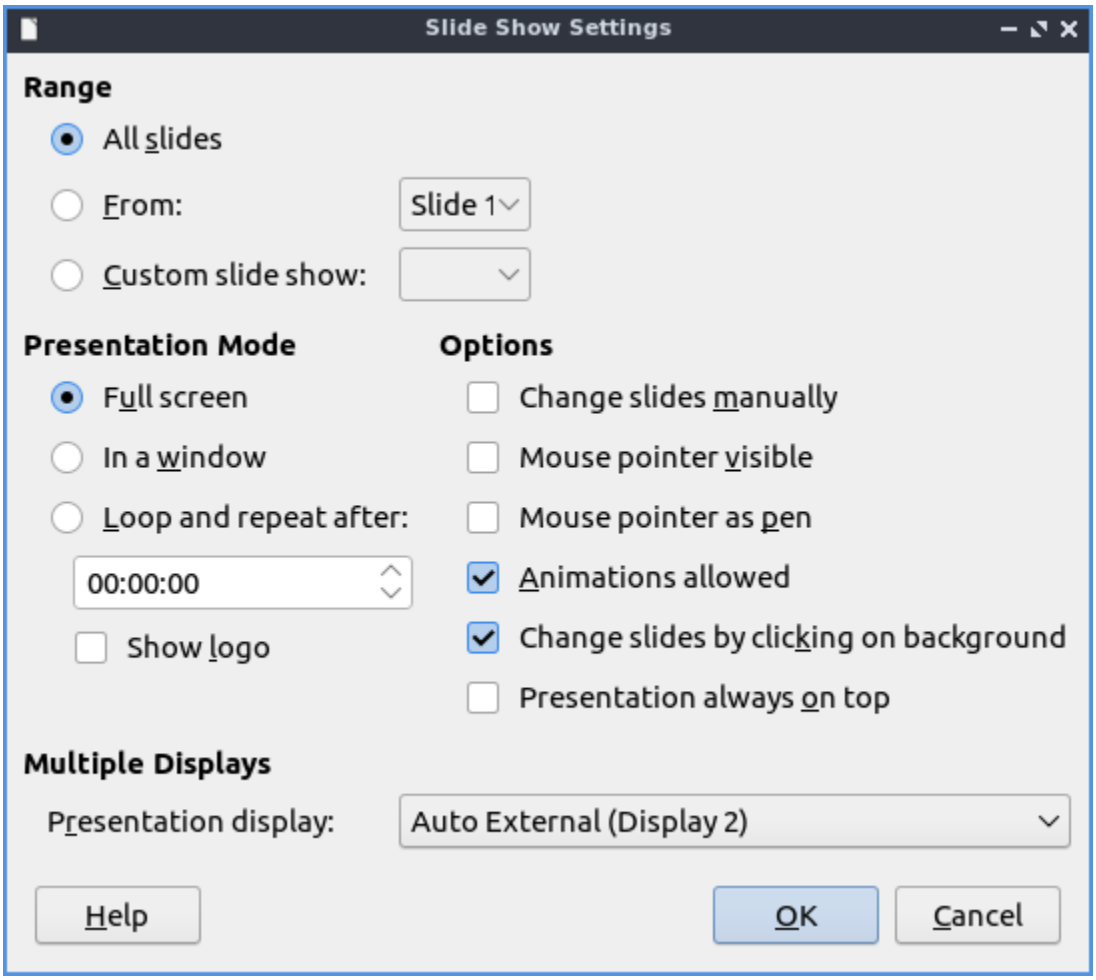
To have your slides be transparent use the Transparency tab. To change your slides to be transparent click the Transparency button and to the right to change how transparent to make it.

Slideshows/Presentations

To start a slideshow press `f5` or the button the looks like a TV with a triangle on it or Slide Show ▸ Start from First Slide. To start a slideshow from the current slide press `Shift + f5` or Slide Show ▸ Start from current slide. To exit the slideshow press `escape`. To get to the next slide of the slideshow left click or press the `right arrow key`. to get to a previous slide in presentation mode press the `left arrow key` or right click previous. To move back to your first slide press the `Home` key. To move to your last slide press the `End` key.

To bring up custom settings for your settings Slide Show ▸ Slide Show Settings. To change the presentation to in a window press the In a window button. To have the slideshow or presentation repeat afterwards press the Loop and repeat after:. To switch back to the de-

fault of having your presentation be fullscreen press the Full screen button. To change options on your presentation are under the Options heading. To toggle showing the mouse pointer check/uncheck the Mouse pointer visible checkbox. To toggle allowing animations check/uncheck the Animations allowed checkbox. To toggle changing slides by clicking with the mouse check/uncheck the Change slides by clicking on background checkbox. To toggle the presentation always on top check/uncheck the Presentation always on top checkbox. To change which screen or projector impress is presenting to change the Presentation display field. To choose what to have either fullscreen, windowed or none at all use the Presenter console drop down.



Version

Lubuntu ships with version 25.8.4 of LibreOffice Impress.

How To Launch

To launch LibreOffice Impress go to the menu Office ▸ LibreOffice Impress or run

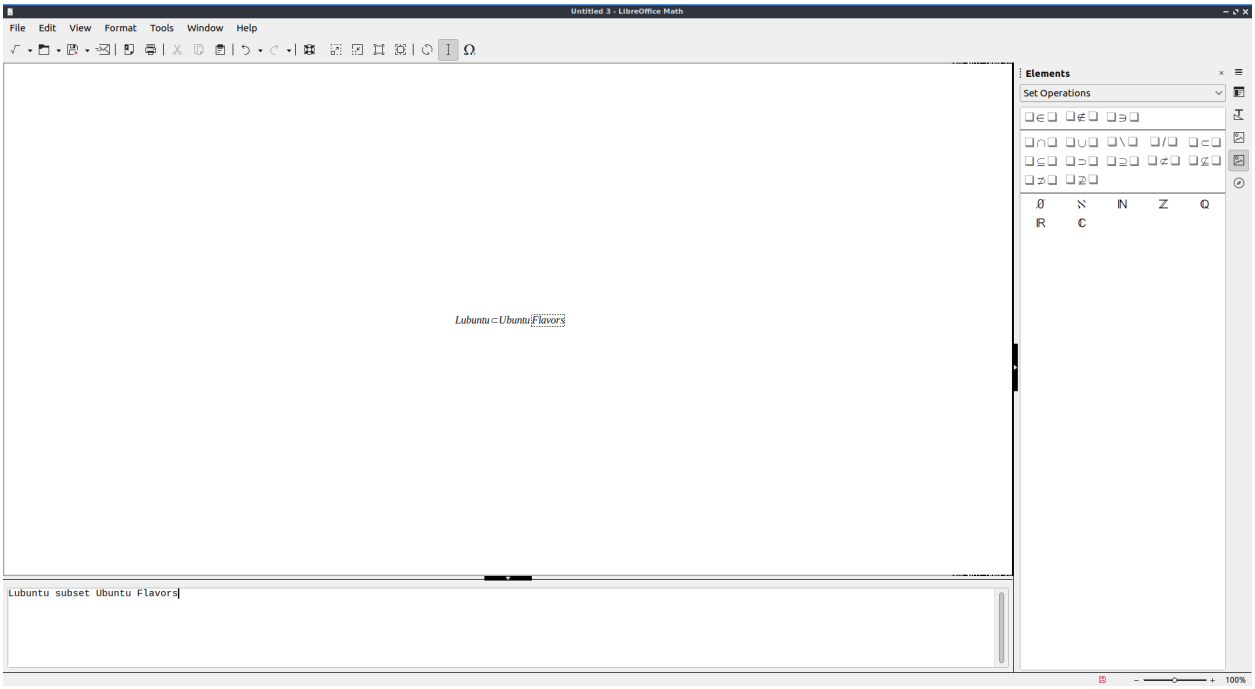
```
loimpress
```

from the command line. The icon for LibreOffice Impress looks like a piece of paper with a red icon and a chart with bullet points on it.

Chapter 2.2.5 LibreOffice Math

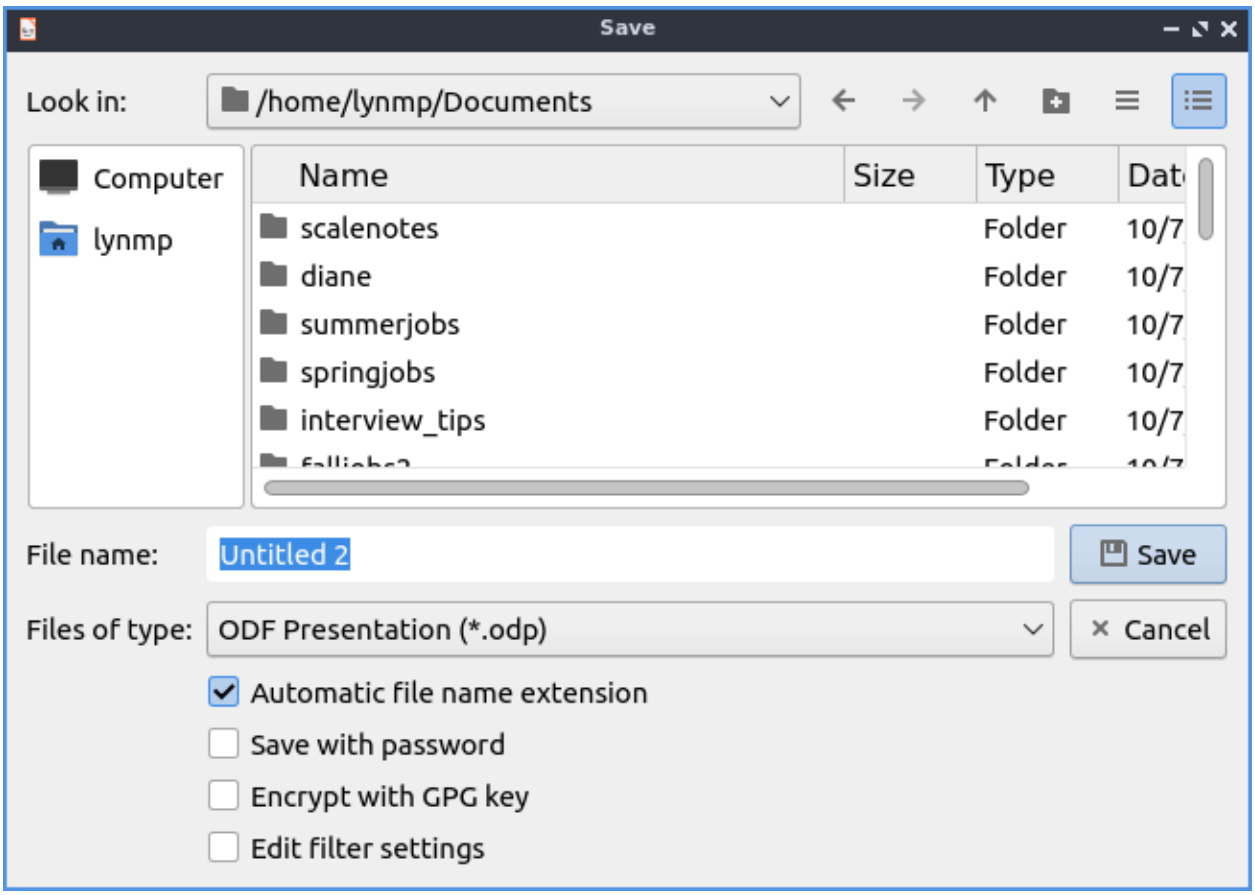
LibreOffice Math is the default application for typesetting equations on Lubuntu.

Screenshot



Usage

To save your formula you have written in LibreOffice math press `Control +S` or File ▸ Save. To open a file press `Control +O` or File ▸ Open. To print your formula press `Control +P` or File ▸ Print. To view your printer settings File ▸ Printer settings. To save a file as a different name press `Control+Shift+S` or File ▸ Save As. To export your formula as a PDF file File ▸ Export as PDF. To view your recent files File ▸ Recent Documents.



To paste text into LibreOffice math press `Control +V`, right click Paste, or Edit ▸ Paste. To copy text from LibreOffice math press `Control+C`, select text right click and select Copy, or Edit ▸ Copy. To cut text from LibreOffice math press `Control +X` or Edit ▸ Cut. To select all text press `Control+A` or Edit ▸ Select All.

To undo changes in LibreOffice math press `Control +Z`, Leftward pointing arrow, or Edit ▸ Undo. To undo to a particular change press the downard pointing arrow next to the left hand pointing arrow. To redo a change you have undone press `Control +Y`, Rightward pointing arrow, or Edit ▸ Redo.

The right hand side has many symbols you can use for say set relations and other operators. To change which groups of symbols you are currently using change the menu to the top of the sidebar with symbols on the right. If the symbol usually has a variable or operand on on a side or something it will have a box to that side. To view a description of the symbol simply mouseover the symbol. If something you inserted has a variable in your take in on the bottom of the window will show as a <?>. To toggle hiding this sidebar check/uncheck View ▸ Elements. To temporarily collapse a sidebar click the arrows pointing towards the edge of the window. To expand the windows again press the arrow to go back towards the outside. To insert even more symbols Tools ▸ Symbols.

To type into a formula the bottom part of the window has what is inserted into the formula. You can also insert many operators or brackets by right clicking and then selecting the symbol. To simply exponentatate in the or raise something to a power type ^ to insert this. To typeset a matrix type `matrix{ }` or right click and select Formats ▸ matrix. The matrix is entered in rows with each element being separated by # and switching to a new row with ##.

To refresh the display afterwards press `F9` or View ▸ Update. To toggle autoupdate View ▸

Autoupdate Display.

To change the fonts of your formulas Format ▸ Fonts which brings up a window for fonts for different contexts. To change your font size Format ▸ Font sizes. To bring up a menu to change your alignment Format ▸ Alignment. To change the spacing between lines and characters Format ▸ Spacing. To align text to the left press the Left button. To center text press the Centered button. To change alignment to the right press the Right button.

To change zoom View ▸ Zoom and select the zoom you want. In the bottom right hand corner there is a zoom slider. To zoom in move the slider to the right and to zoom out move the slider to the left. To see your current zoom is on the bottom right hand corner.

To quit LibreOffice Math press `Control+Q`.

Version

Lubuntu ships with Version 25.8.4 of LibreOffice Math.

How to Launch

To launch LibreOffice Math in the menu Office ▸ LibreOffice Math or run

```
lomath
```

from the command line. The icon for LibreOffice Math looks like a piece of paper with the math symbol for square root of x.

Chapter 2.2.6 LibreOffice Writer

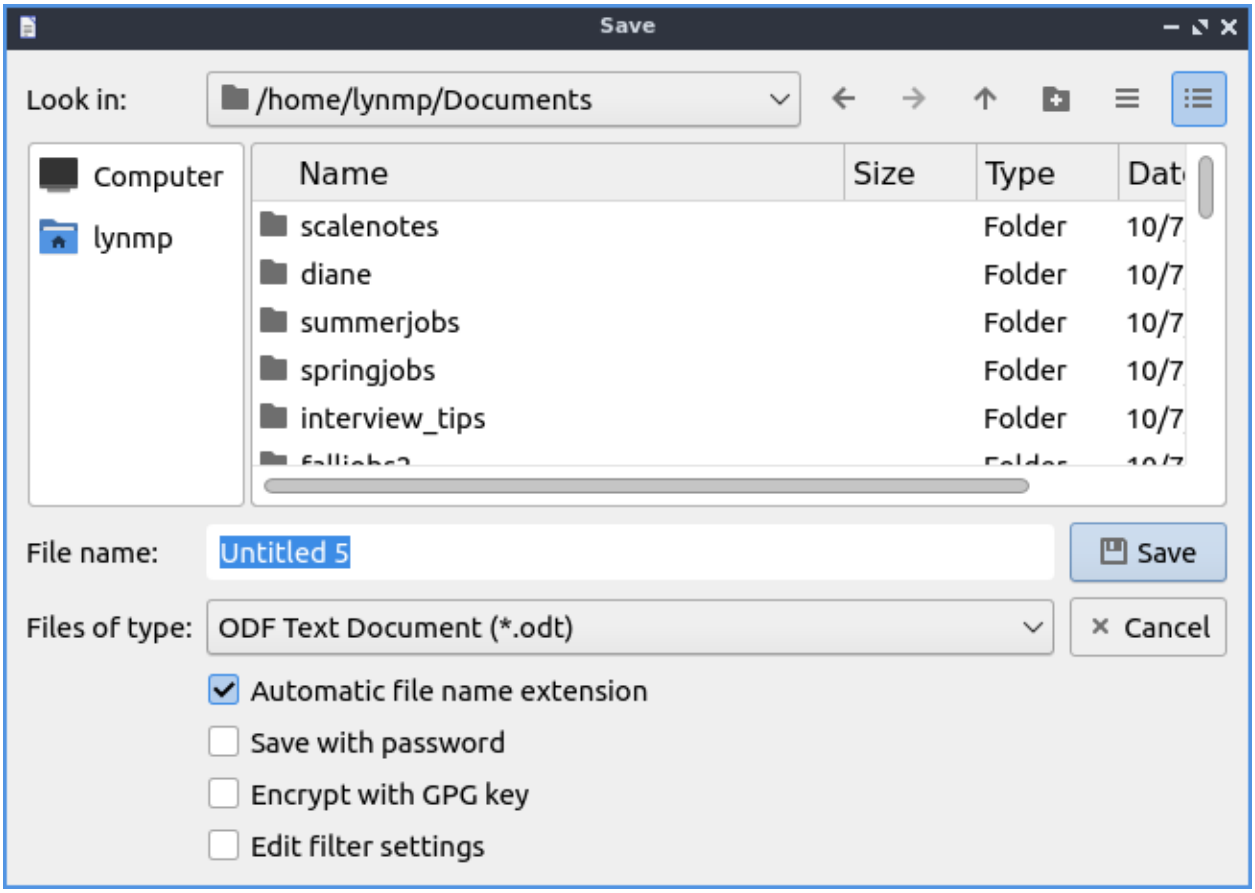
LibreOffice Writer is the default word processing application on Lubuntu.

Features:

- No ribbon
- One button PDF export
- Many file formats to output
- Spellcheck
- Wordcount

Usage

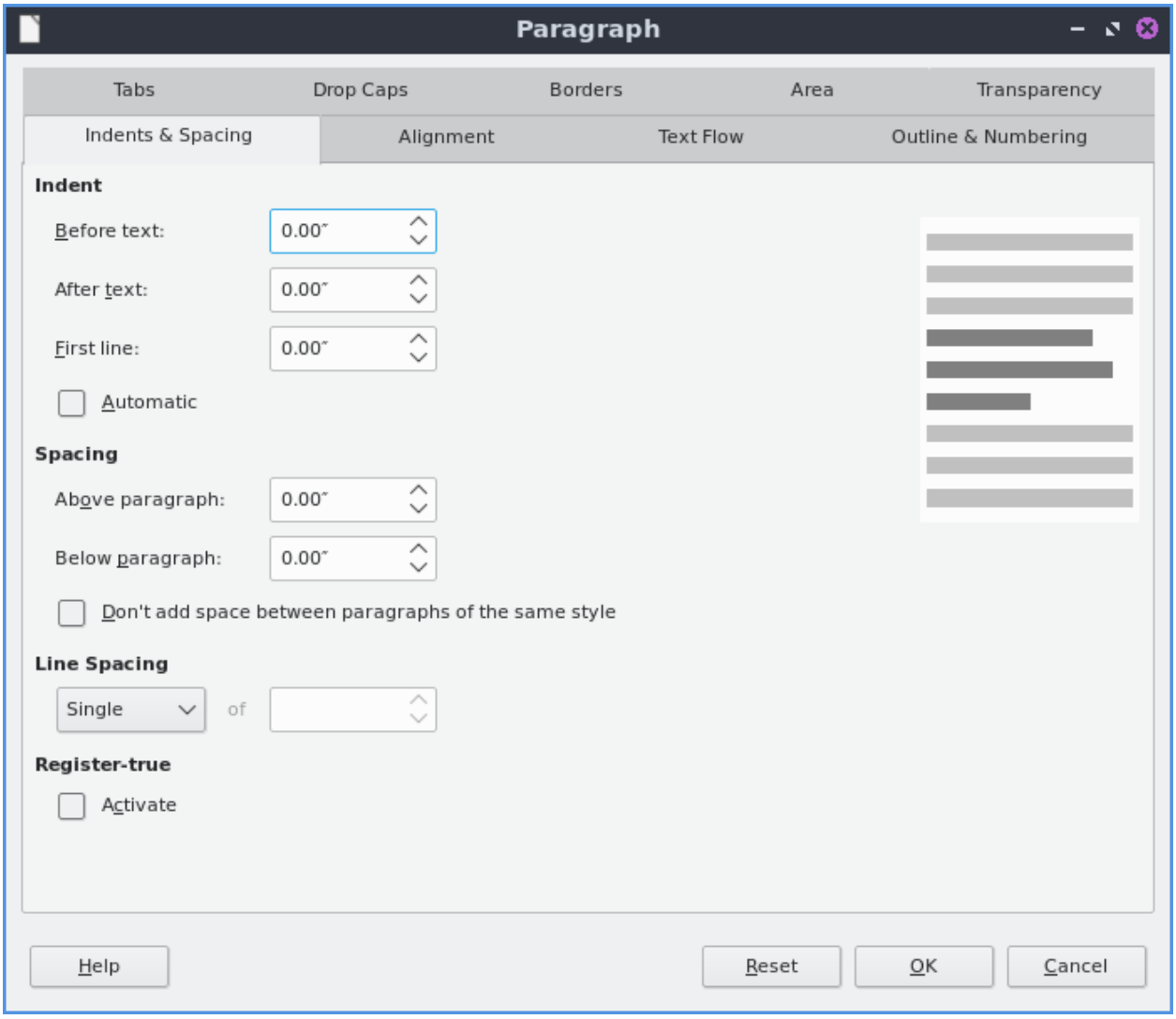
To use LibreOffice writer type what you wish to type into the main part of the window. If you wish to save your data press the icon that looks like a floppy disk or press `control + s`. To open a previously saved document press the button that looks like a folder or press `control + o`. To load or save a file from the menu File ▸ Open to open a file or File ▸ Save. To save your file as a new file name File ▸ Save As. To view your recent documents File ▸ Recent Documents. To have save your file as a PDF press the button that is a sheet of paper with curved red lines on it or go File ▸ Export and select the file type as PDF. To export as a PDF file File ▸ Export AS ▸ Export as PDF. To export your document as ann epub File ▸ Export AS ▸ Export as EPUB. This same export menu will let you save in formats for other programs for compatibility with Microsoft word.



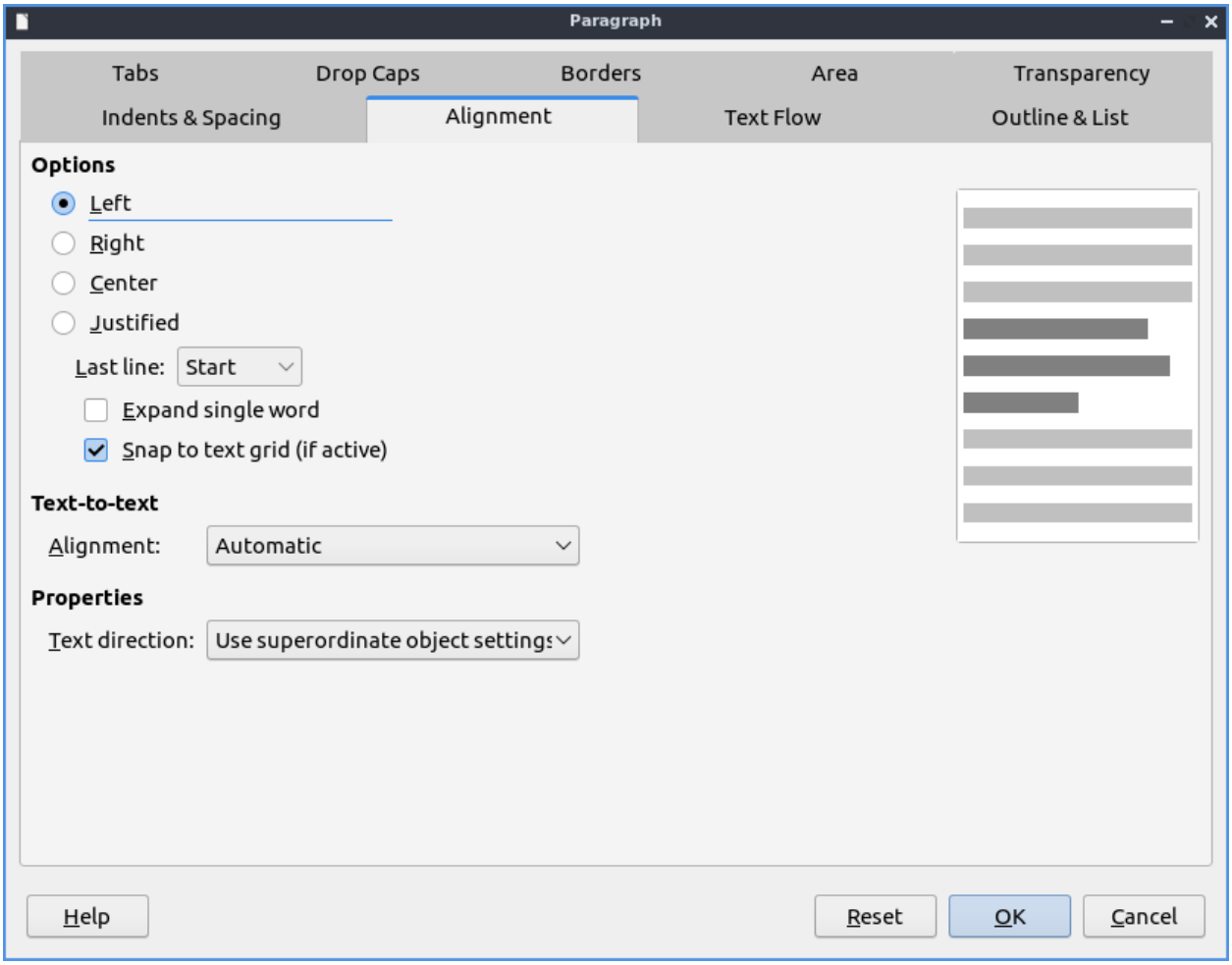
To change the font size there is a drop down box with a number in it you can type the font size you want in this box or select from the dropdown menu. You can change the font with the drop down box to the left of the font size which you can type and it autocompletes the fonts or select from the drop down menu. To make your text bold you can select the text with the mouse and press the button that looks like **B** or press `control + B`. To make the font italic press the button that looks like I or press `control + I` after selecting the text or keep typing with it to be italic. To have an underlined text select the text and press `Control +U` or press the underlined U button. To change the style of underline press the downward pointed arrow next the underlined U button. To make strikethrough press the button that is a s with a line through it. If you want a floating window on how to style your text Format ▸ Character.

To copy text select it with the mouse or `Shift + arrow key` then press `Control +C` or Edit ▸ Copy. To cut text select it first and then press `Control +X` or Edit ▸ Cut. To paste text press `Control +V` or Edit ▸ Paste. To paste with no formatting press `Control + Alt + Shift+ V` or Edit ▸ Paste Unformatted Text.

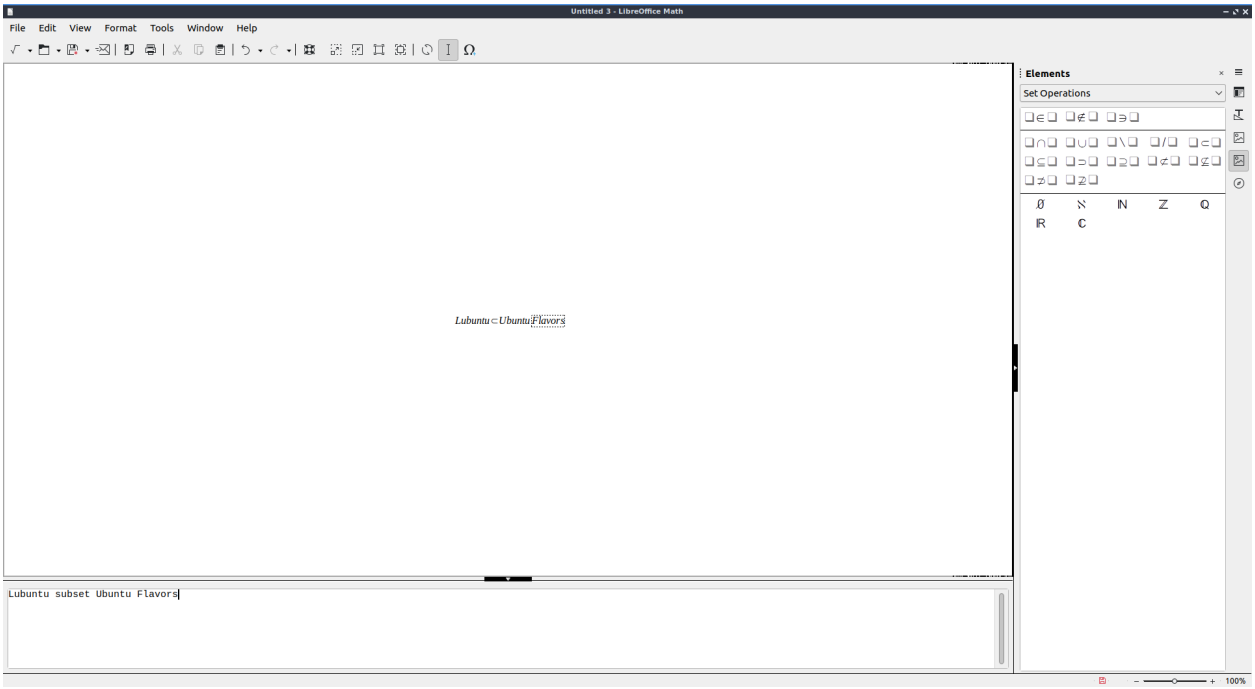
To change your spacing around your character Format ▸ Paragraph. To manage your indentation and spacing between paragraphs and lines use the Indents & Spacing tab. The Before text field is how much indentation before each line of text. The After text is how much of an indent to put after the text. The First line field shows how you want the first line indented. To add a space above each paragraph increase the Above paragraph field. To add a space below a paragraph change the Below paragraph field. To change line spacing in this window change the Line Spacing field.



To change alignment from this window use the Alignment tab. To change the alignment choose the Left, Right, Center, or Justified radio button to align text that way. The Borders tab has settings for your border. The Style menu lets you change what kind of line is used for the border. To change the width of your border change the Width field. To choose a different presets of border type press the buttons under Presets and will be previewed in the box below. The buttons under Position change where the shadow is relative to the text. The field Distance is how far the shadow is offset from the border. To change the color of your shadow change the Color menu.



To change what how the text deals with page breaks and paragraphs use the Text Flow tab. To automatically use hyphens check the Automatically checkbox. To not hyphenate words with capital letters check the Don't hyphenate words in CAPS checkbox. To not hyphenate the last word check the Don't hyphenate the last word checkbox. To not hyphenate the last word check the Don't hyphenate the last word checkbox. To change how many characters to leave before the hyphen change the Characters at line end field. To change how many character after the hyphen on the next line change the Characters at line begin. To set a maximum number or hyphens change the Maximum number of consecutive hyphens field. To toggle not putting a short bit of text at the bottom of a page or column check the Orphan control checkbox. To change how many lines to not allow to be separated change the lines field to the right of Orphan control. To stop a few lines of text alone at the top check the Widow control checkbox. To change how many lines you of text to change the Lines field to the right of Widow control. If you do not want orphan or widow control check the Do not split paragraph checkbox.

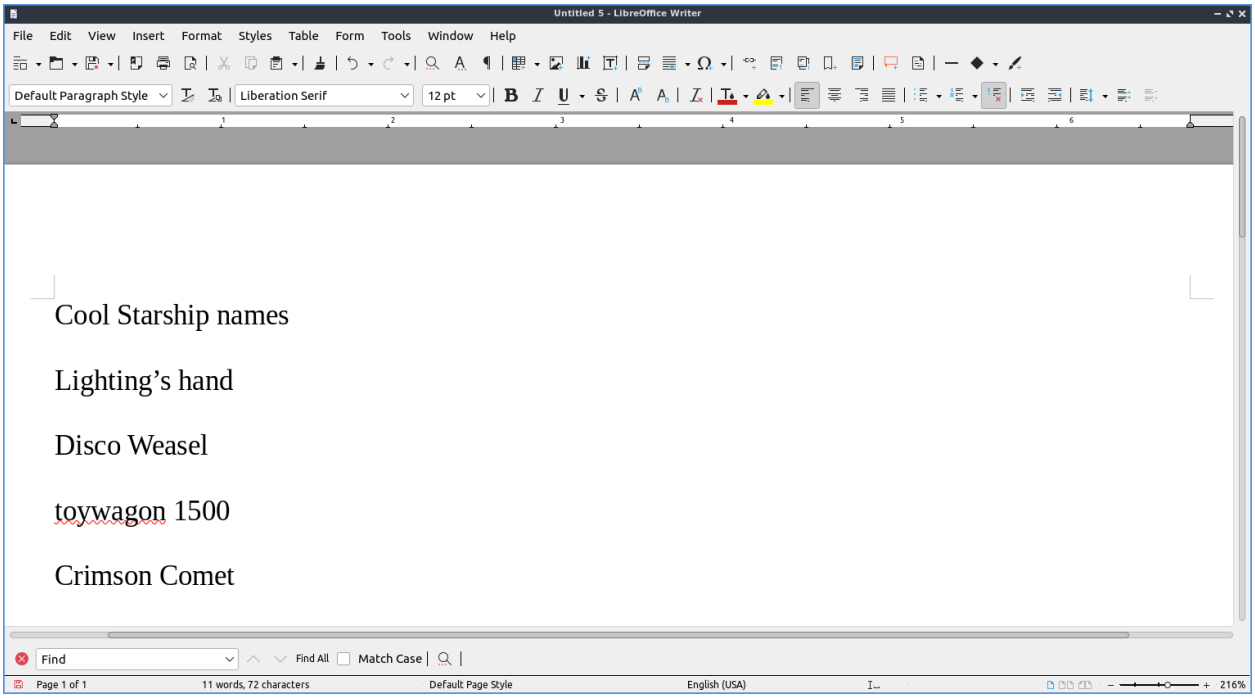


To undo your changes on the paragraph window press the Reset button.

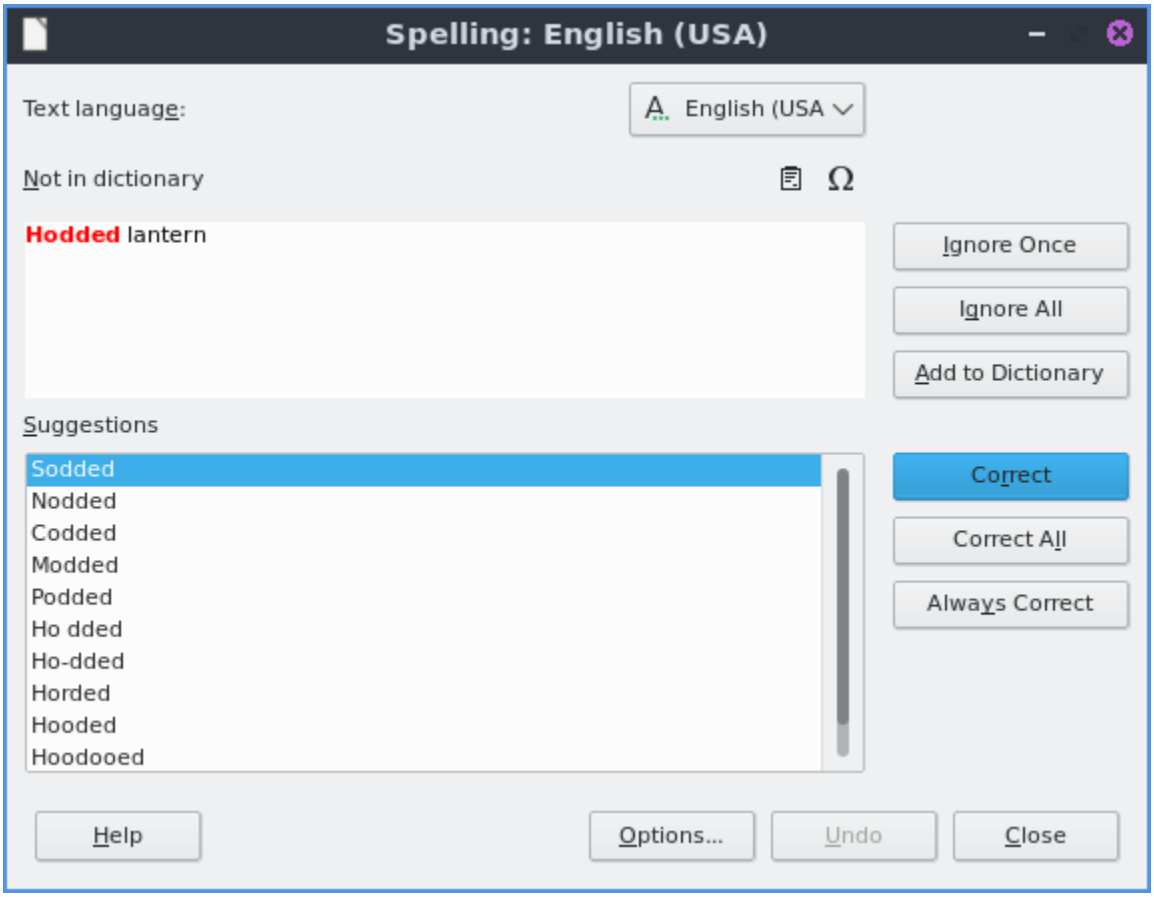
To change font color press the button that has a T with a drop on it and a red underline this will bring down several different colors you can change your text to a color you want. You can also change your font color through the Format ▸ Character window.

To make text superscript press the button with A ^{B}. To make text subscript press the button that is an A $_{B}$.

If you want text in a text box that can be moved with the mouse press the button that looks like a T with a box around it or Insert ▸ Text box. To insert a hyperlink press `Control + K` or Insert ▸ Hyperlink.

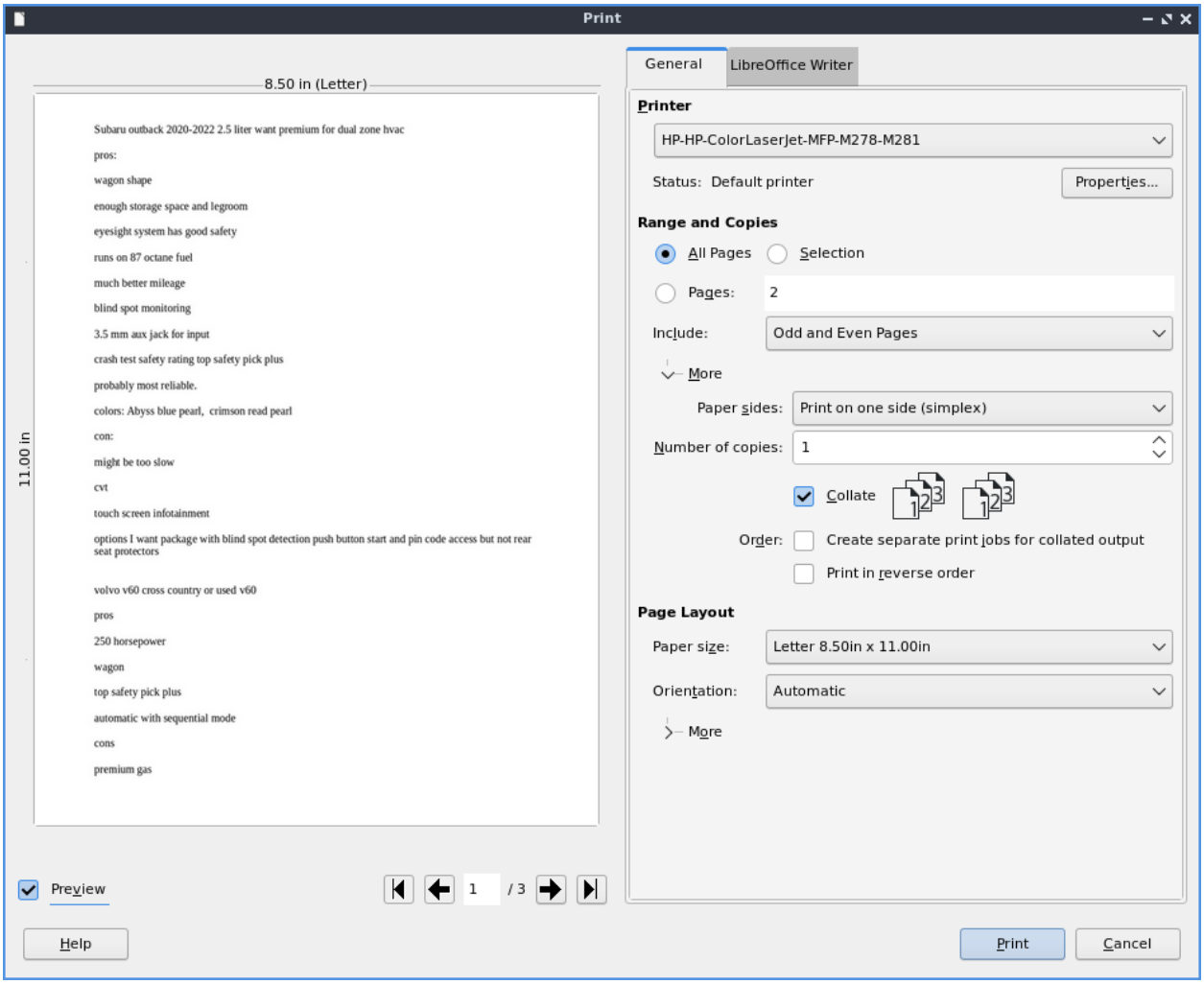


To check the spelling of your document press the ABC button with a checkmark, from the Tools ▸ Spelling or press `f7`. When you have the spellcheck window open to change what language you are checking the spelling for change the Text language field. To insert a special character in spellcheck press the Ω button. Press the button with the piece of paper to paste into spellcheck. When you have what spell check thing is a typo it will be highlighted in red with context of where that appears in your document. If you think this is not an error just for this time press the Ignore Once button. To not change this at every time this occurs in the document press the Ignore All button. If what you wrote is correct and never want it marked wrong again press the Add to Dictionary button. Below what spellcheck thinks is an error will show Suggestions on what you it thinks it should correct. To select a different suggestions left click on it to select that suggestion. To replace what spellcheck thinks is an error with the suggestion press the Correct button. To replace the supposed error with the suggestion in the entire document press the Correct All button. To have this error be autocorrected press the Always Correct button.



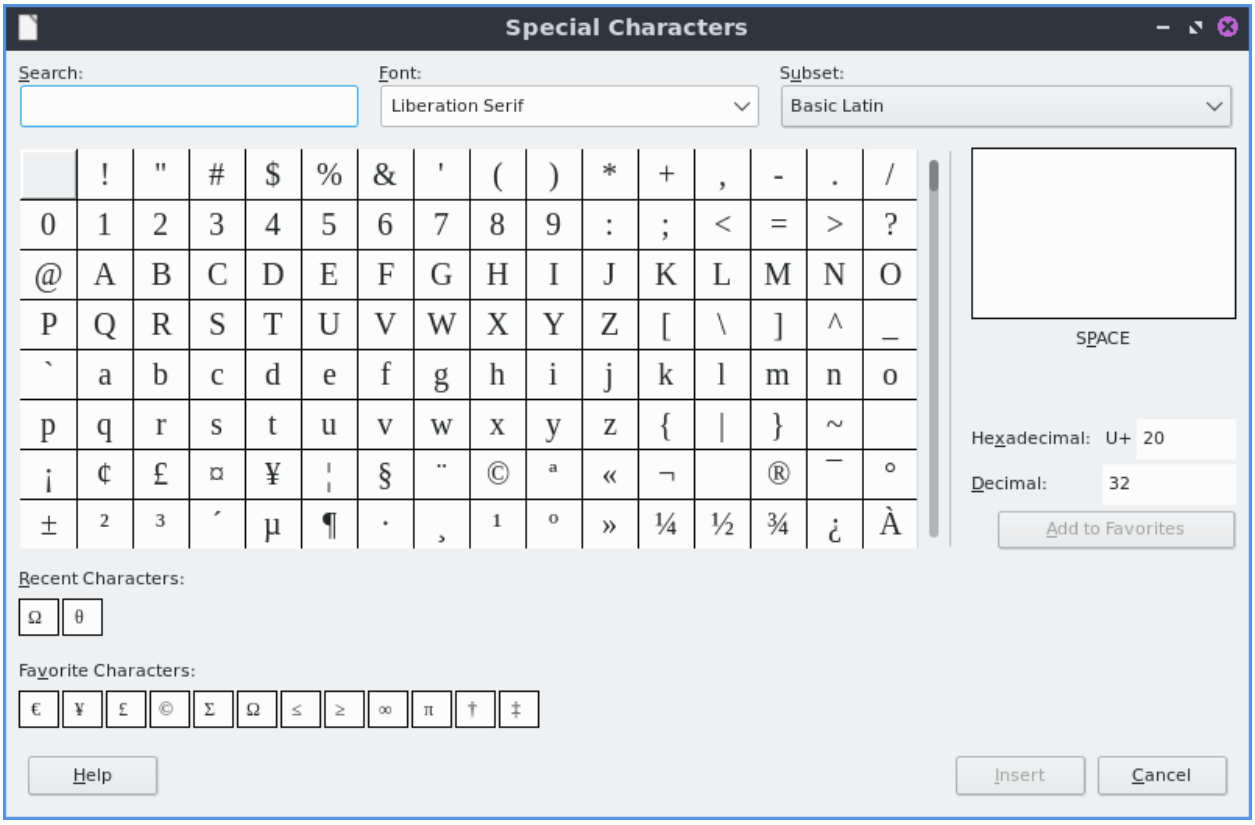
To preview your document in a web browser :menuselection:` File –> Preview in Web Browser`.

To view how your document looks before printing it File ▸ Print preview or `Control +Shift +O`. To get back to editing your document press the same thing again or click the close preview button. After you are done writing your document you can press the button that looks like a printer to print, press `control+ p` or File ▸ Print. To toggle the preview on or off check/uncheck the Preview checkbox. To the left of the print dialog will have a preview on the left hand side. Below the preview there is a range of different pages showing which page you are previewing and how many pages the document you are printing is showing. To select which printer to use use the Printer drop down menu. To choose which pages to print there are buttons under Range and Copies heading. To change which side to print on change the Paper sides field. To change how many copies you are printing change the Number of copies field. To print in reverse order check the Print in reverse order checkbox. To change what paper size you are printing change the Paper size field. To change which direction the words are printed on the paper use the Orientation field. To change how many pages per sheet you print use the Pages per sheet field. To which order the pages are printed change the Order field. To preview which order the different pages are ordered to the right see the number of the page on the screen towards the bottom right of the print dialog. To draw a border around multiple pages check the Draw a border around each page checkbox.



To change view or change your printer settings File ▸ Printer settings. To view your word count of how many words are currently in the document is with nothing selected at the bottom of the LibreOffice writer window. If you select text with the mouse you can also see the word count of selection from the same spot. The word count is also shown on the very bottom of the window. To bring up a popup window with your wordcount Tools ▸ Word Count.

To insert special symbols or characters press the button with the Ω symbol or from the menu Insert ▸ Special character. If you use a symbol a lot you can quickly select it by pressing the downward pointing arrow next to the Ω button. To insert a page break press `control` + `enter` or from the menu Insert ▸ Page Break.



To undo a mistake you make press `control` + `z` or press the yellow arrow pointing to the left. If you accidentally undid code redo or press the green arrow pointing to the right or press `control` + `y`. Under the arrow buttons there is a drop down button that brings up a menu for which steps to undo and redo.

To center your text is press the button with the horizontal lines centered or Format ▸ Align ▸ Centered. To have your text justified to the right press the button with the lines on the right or Format ▸ Align ▸ Right. To have your text aligned to left press the lines on the left with or Format ▸ Align ▸ Left. To center justify your text which will add spaces in between words to make it appears at both orders press the button that has solid horizontal lines all of equal length to center justify the text or Format ▸ Align ▸ Justified.

If you want to change your line spacing of your document Format ▸ Spacing ▸ Line spacing: 2 for double spacing or Format ▸ Spacing ▸ Line spacing: 1.5 for one and a half line spacing. To change back to single line spacing of your document Format ▸ Spacing ▸ Line Spacing: 1.

To Insert a page number Insert ▸ Field ▸ Page number. To insert the current time into the document Insert ▸ Field ▸ Time. To insert the current date into the document Insert ▸ Field ▸ Date. To insert the number of pages in the document Insert ▸ Field ▸ Page count.

To have a page number in your header or footer Insert ▸ Page Number. To choose where to put the page number put change the Postion drop down. To change which side of the page the page number appears on use the Alignment drop down. To have the number be on the opposite side for every other page check the Mirror on even pages checkbox. To include the total of all pages check the Include page total checkbox. To change how your page numbers are formatted change the Page nubmers drop down.

To have a header shown at the top of each page Insert ▸ Header and footer ▸ Header ▸ Default style. To have a footer at the bottom of each page Insert▸ Header and footer ▸ Footer ▸ Default style. To get back to writing the main part of the document left click on the body of

the document.

To add a comment inline into the document press `Control+Alt+C` or right click and select Comment. Type your comment in the yellow box to the right to leave a note on that comment. To leave a reply to this comment press the downward pointing arrow Reply.

To insert a mathematical formula into your document you are process Insert ▸ Object ▸ Formula and a user interface similar to LibreOffice math will appear allowing you to insert the formula.

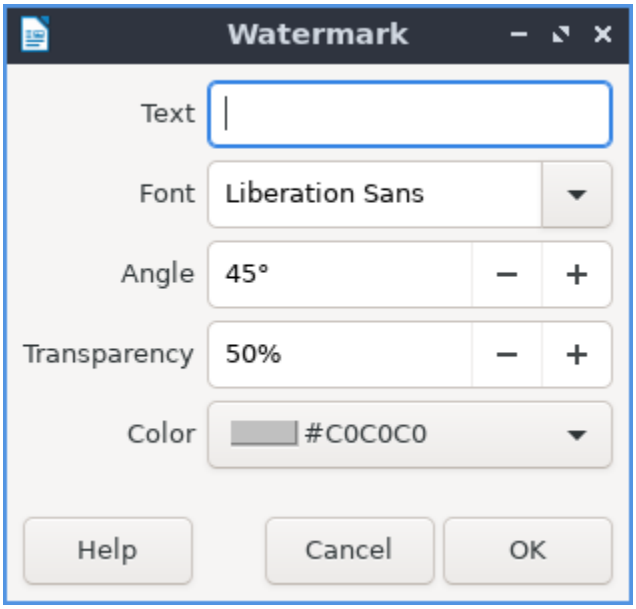
To select all text in the document press `control + A` or Edit ▸ Select All. If you want to select text with a rectangle with how you draw the mouse press `Alt + Shift +F8` or Edit ▸ Selection Mode ▸ Block Area. To switch back to normal selection Edit ▸ Selection Mode ▸ Standard. To jump to a specific page press `Control + G` or Edit ▸ Go to Page and a dialog will pop up. To enter a page number in the Page field and click OK to go to that page.

To have a view of the document with no margins shown like on a webpage View ▸ Web or To get back to the original view View ▸ Menu. To toggle a vertical scrollbar View ▸ Scrollbars ▸ Vertical Scroll bar. To have a horizontal scrollbar View ▸ Scrollbars ▸ Horizontal Scroll bar.

To toggle your view of rulers press `Control + Shift +R` or View ▸ Rulers ▸ Rulers. To only toggle showing a vertical ruler View ▸ Rulers ▸ Vertical Rulers. To toggle seeing formatting marks press `Control + F10` or View ▸ Formatting Marks. To toggle making LibreOffice Writer press `Control + Shift + J` or View ▸ Fullscreen.

To zoom for the entire page to be visible View ▸ Zoom ▸ Entire Page. To zoom so you can see the width of the page and everything is bigger View ▸ Zoom ▸ Page Width. To zoom in a bit more and not see the margins on the page View ▸ Zoom ▸ Optimal View. To zoom to 100 percent zoom View ▸ Zoom ▸ 100%. Another way to change zoom is there is a zoom slider in the bottom right hand corner to increase zoom in move the slider to the right and to zoom out move the slider to the left. To see your current zoom is shown in the bottom right hand corner. Right clicking on the current zoom brings up a menu to quickly switch to different zoom levels.

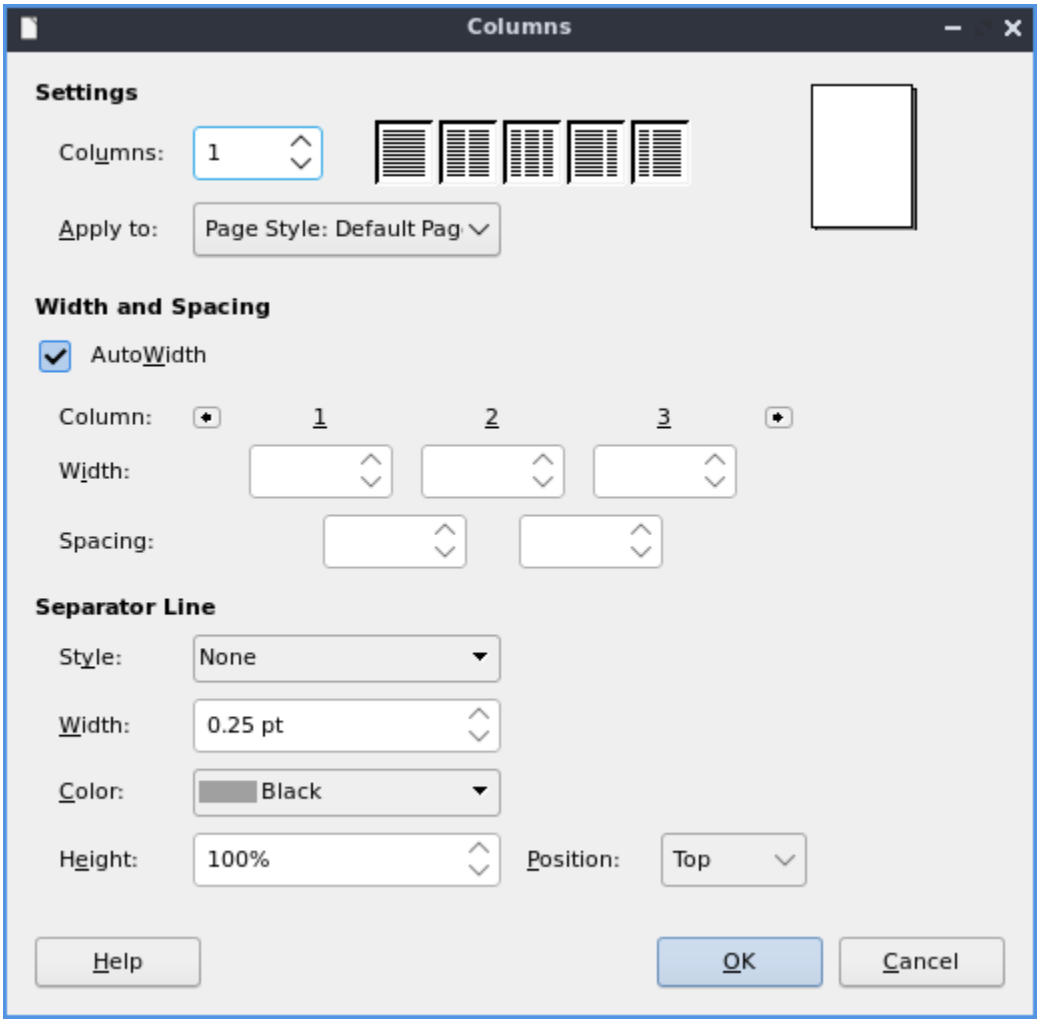
To insert a watermark on the background of the page Format ▸ Watermark. To change what the watermark says input that into the Text field. To change the font of the watermark change the Font field. To change the angle from horizontal text use the Angle field in degrees. To change your how transparent the water mark is change the Transparency has 100 as entirely clear and 0 as entirely opaque. To change the color of the watermark use the Color drop down pop up menu.



To leave LibreOffice Writer press `Control+Q`.

Columns

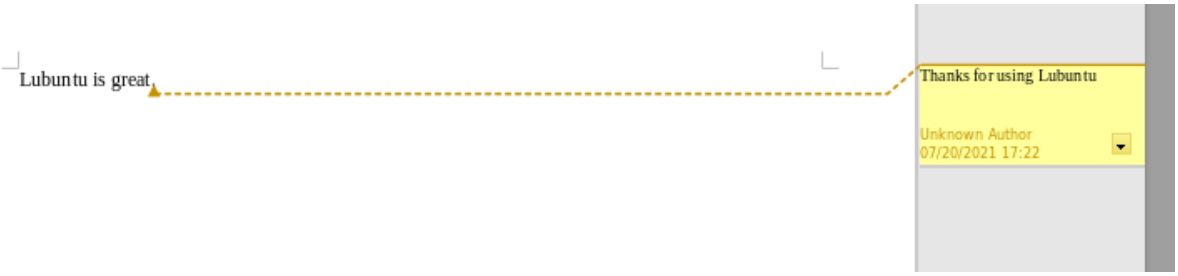
To add multiple columns to your document Format ▸ Columns. To have multiple columns in the field that says Columns and set to the number of columns you want. To change the spacing between the two columns change the Spacing field. To have a line to separate your columns use the Style drop down menu to select the lines. To change the color of your lines change the Color drop down menu. When you are done with your settings press the OK button or if you decide you do not want to make changes to columns press the Cancel button.



To add a column break to the next column press `Control+Shift+Enter` or Insert ▸ More Breaks ▸ More Column Breaks.

Comments

To add a comment to a file with LibreOffice Writer press `Control +Alt +C`, right click Insert Comment, or Insert ▸ Comment. To add text on the comment click in the yellow area and type in your comment. To delete a comment press the downward pointed arrow in the yellow comment and select Delete Comment. To get back in the body of the document click in the white part towards the left of the document. To read when a comment was made look at the bottom of the comment in yellow. To toggle showing comments View ▸ Comments.



Lists

To add a list of bullet points press `Shift +F12` or Format ▸ Lists ▸ Bulleted Lists. To start a numbered lists press `F12` or Format ▸ Lists ▸ Numbered List. To move an item up in your list Format ▸ Lists ▸ Move Up. To move an item down in your list Format ▸ Lists ▸ Move Down. To demote a point to a subpoint Format ▸ Lists ▸ Demote One Level. To promote this point back up to its previous level Format ▸ Lists ▸ Promote One Level.

Find And Replace

To search for text in your document press `Control +F`, View ▸ Toolbars ▸ Find, or Edit ▸ Find which pops up a toolbar on the bottom. To enter the text to search enter into the searchbar on the bottom. To go to the next result press the downward pointed arrow button. To go to the previous result press the upward pointing arrow button. To close out of finding text click the red circle x button. To not match case uncheck the Match Case checkbox.



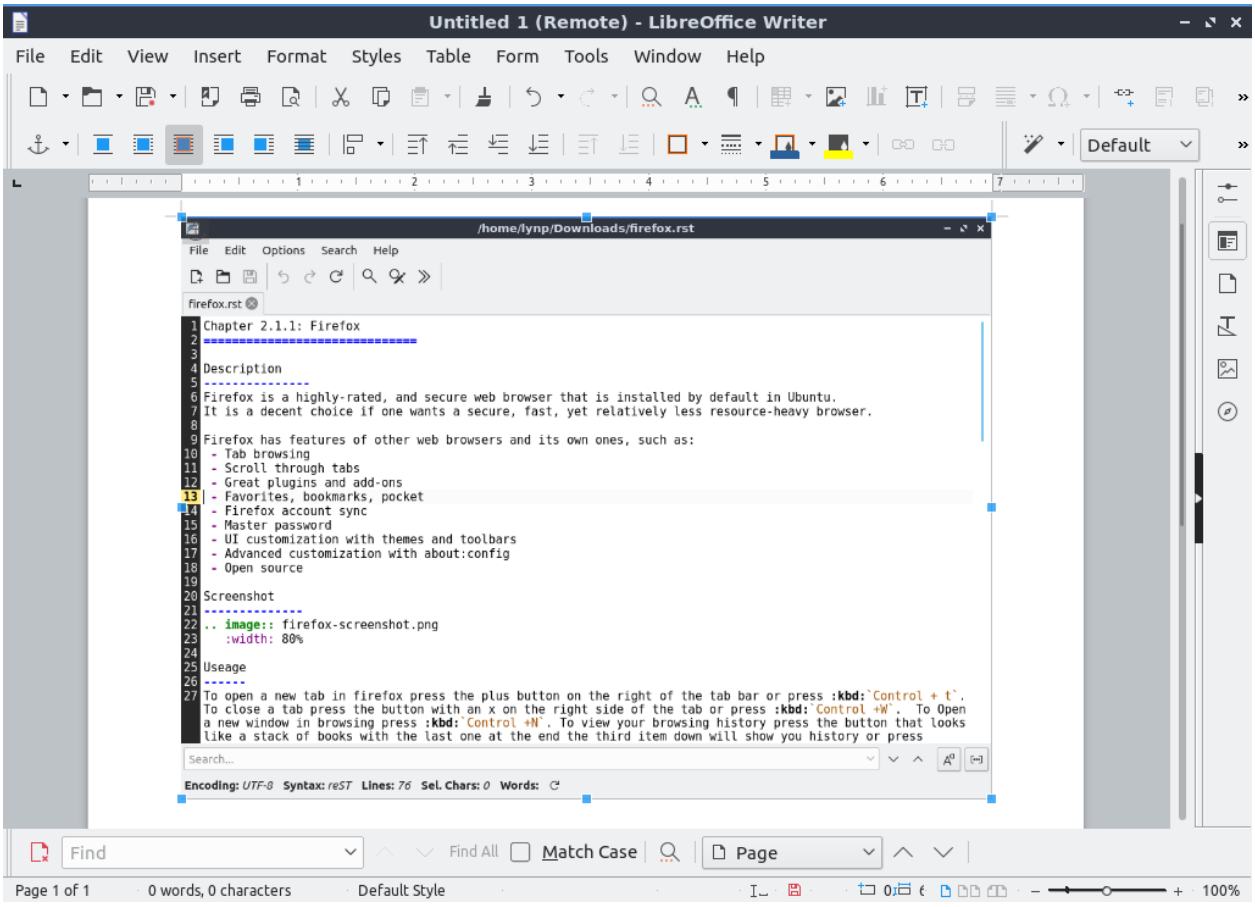
To find and replace text press `Control+ H` or Edit ▸ Find & Replace. To have what text you want to be find in the document to be replaced in the Find field. To have the end result of what you after replacing in the Replace field. To find and select all occurrences of the string in the Find field click the Find All button. To replace every occurrence of the word of find press the Replace All button to change everything.

Styles

To quickly set a title for your your document Styles ▸ Title. To choose a quick subtitle for your document Styles ▸ Subtitle. To choose to style something as a heading press `Control+1` or Styles ▸ Heading 1. To choose a style of a subheading press `Control+2` or Styles ▸ Heading 2. To choose an even lower level heading press `Control+F3` or Styles ▸ Heading 3. To quickly switch to a bulleted list Styles ▸ Bulleted List. To switch to a numbered list Styles ▸ Numbered List. To have a list styled with uppercase letters Styles ▸ Alphabet Uppercase List. To switch to a list with lowercase letters choose Styles ▸ Alphabet Lowercase List. To get a list with uppercase roman numerals select Styles ▸ Roman Uppercase List. To make a list with lowercase roman numerals select Styles ▸ Roman Lowercase List. To get back to your original normal style press `Control+0` or Styles ▸ Text Body.

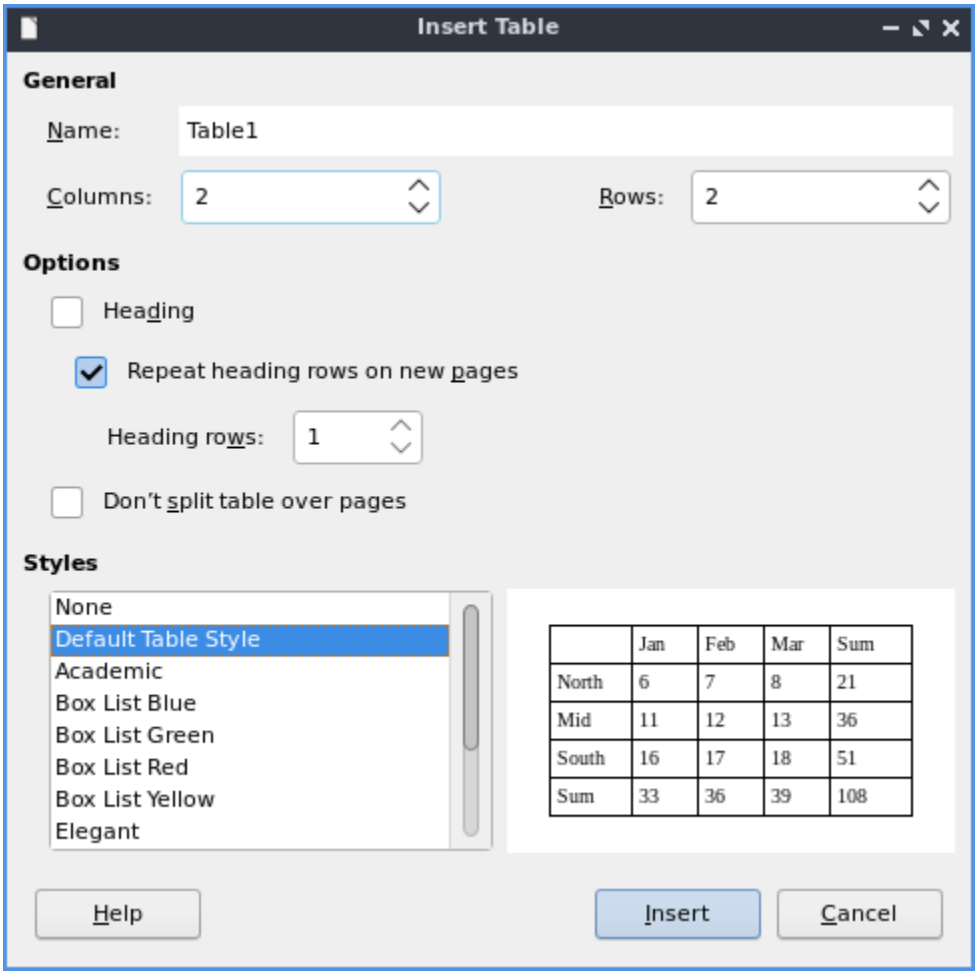
Images

To insert an image into your go to Insert ▸ Image to insert an image directly to your word processing document. To move your image around left click on it and drag the image around. To resize the image while keeping the same aspect ratio click on one of the blue boxes around the corner to resize the image. To remove an image you decide you do not want in your document press the `Delete` key. To rotate an image to the right left click on it to select it and right click on the image Rotate or Flip ▸ Rotate 90° Right. To rotate an image to the left right click on the image Rotate or Flip ▸ Rotate 90° Left. To rotate an image to fix it appearing upside-down left click the image and right click Rotate or Flip ▸ Rotate 180°. To get an image back to its original position Rotate or Flip ▸ Reset Rotation. To rotate an image freely by the mouse Rotate or Flip ▸ Rotate and drag with the mouse to where you want the image rotated. To flip your image vertically right click on the image Rotate or Flip ▸ Flip Vertically. To flip your picture horizontally Rotate or Flip ▸ Flip Horizontally.



Tables

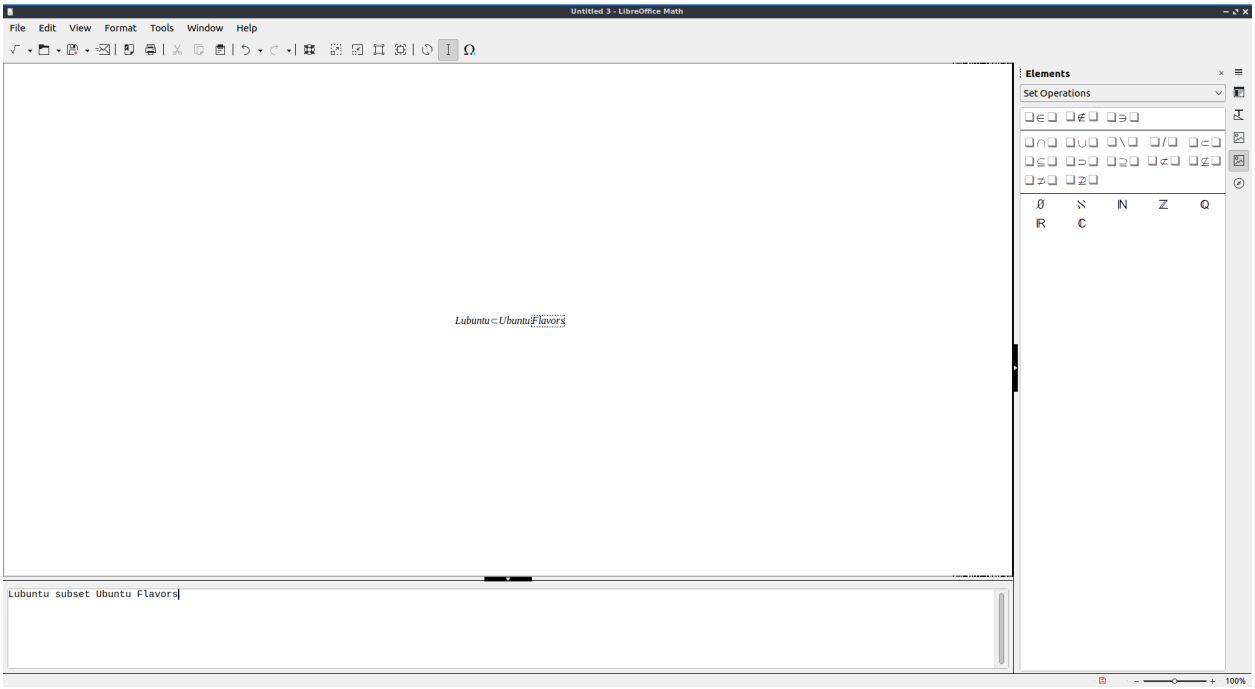
To insert a table Table ▸ Insert Table and a table dialog window will popup. To change the number of columns change the Columns field. To change the number of rows change the Rows field. To toggle showing a heading check the Heading checkbox. To view a different styles for your table are under the Style menu and you can see a preview to the right of the menu. To input text into a part of the table simply left click over that part of the table. To move to another part of the table with the arrow key with the direction you want to go.



To add a row above your current row Table ▸ Insert ▸ Rows Above. To add a row below the current row Table ▸ Insert ▸ Rows Below. To add a column before the current one Table ▸ Insert ▸ Columns Before. To add a column after the current one Table ▸ Insert ▸ Columns After. To add multiple rows or columns Table ▸ Insert ▸ Rows or Table ▸ Insert ▸ Column. To switch how many of multiple rows or columns change the Number field. To switch to adding rows or columns above or below press the Below Selection button. To actually add the rows or columns press the OK button. To delete a row Table ▸ Delete ▸ Rows. To delete a column Table ▸ Delete ▸ Columns. To delete the whole table Table ▸ Delete ▸ Table.

Document Properties

To bring up a window with properties of your document File ▸ Properties. The General tab shows metadata about the file including creation or modification time.



The Description tab has fields to input title subject and keywords and lets you also put in comments. The Title is where you can optionally put the title on. The Subject is a field to input the subject of the document. The Keywords is to input keywords on the document. The Comments is where you can have comments about the document.

The Font tab has settings for embedded fonts to make sure they always display properly. To embed any fonts you check the Embed fonts in the document checkbox. To only embed the fonts needed to see the document check the Only embed fonts that are used in documents checkbox. To chose to embed fonts with a Latin script check the Latin fonts checkbox. To embed Asian fonts check the Asian fonts checkbox. To embed complex fonts check the Complex fonts checkbox.

To see statistics on your document use the Statistics tab. To see how many pages are in your document look at the Pages row. To see how many tables are in a document see the Tables row. To see how many images are in your document read the Images row.

Version

Lubuntu ships with LibreOffice Writer version 25.8.4

How to Launch

To launch go to menu Office ▸ LibreOffice Writer or run

```
lowriter
```

from the command line. The icon for LibreOffice Writer looks like a piece of paper with several lines of writing.

Chapter 2.2.7 qpdfview

qpdfview is the default PDF viewer for Lubuntu.

Features:

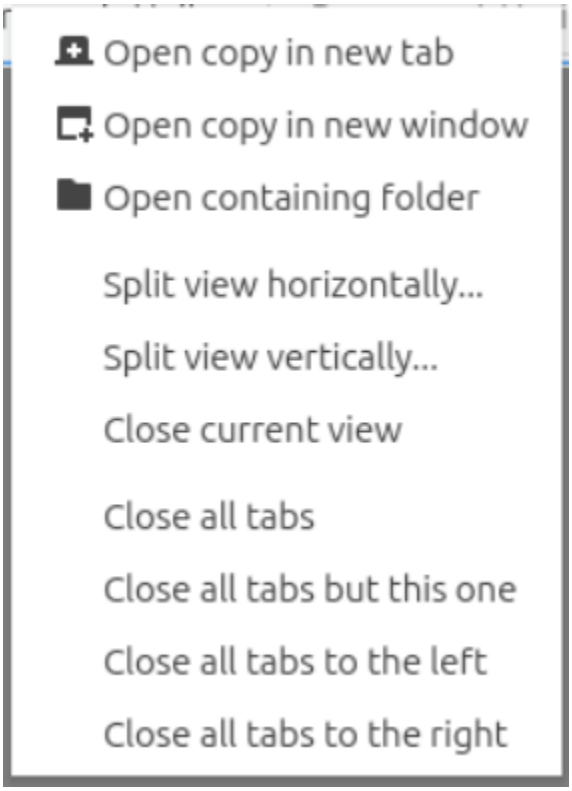
- Tabs
- Presentation mode
- Zoom to entire page/ page width
- Rotating pages
- Outline, properties, thumbnail, and bookmark docks
- Printing support
- Annotation and highlighting
- Bookmarks
- Customizable keyboard shortcuts
- Viewing postscript files

Usage

To open a PDF file use File ▸ Open or press `Control + O` on the keyboard. If you have a PDF open use File ▸ Open in new tab from the menu, click the Open in new tab button or press `Control + T`. To refresh a PDF click the Refresh button, File ▸ Refresh, or press `F5` just like most web browsers. To switch between tabs on the keyboard you can press control `control + tab` or Tabs ▸ Next Tab to go the next tab or `control + shift + tab` or Tabs ▸ Previous Tab to cycle through your tabs in the opposite direction. At the bottom of the tab menu will be a list of all your tabs you have open with the title of each document. To close the tab press the red X button on the tab or press `Control +W`. To close all tabs on qpdfview press `Control + Shift +W`. To restore the most recently closed tabs press `Alt+Shift+W` or Restore most recently closed tab. To view a menu with your recently closed tab Tabs ▸ Recently Closed and select the file you want. To see a list of all your tabs in a menu they are at the bottom of the Tabs menu.

If you want a second copy of a PDF file open right click on the tab and Open copy in new tab. If you want a copy of the current PDF on the tab and select Open copy in new window. To open your file manager in the current directory right click on the tab and Open containing folder. To one PDF file on the left and another on the right click on the tab bar and select Split view horizontally and then select the PDF you want to open beside the other tab. To have one PDF file on top of another right click and select Split view vertically and select which PDF you want one of top of the other. To switch between which PDF you are able to change pages of simply move the mouse over that PDF. To close go back to only one PDF file per tab right click on the tab and select Close current view.

To close all tabs right click on the tab bar and Close all tabs. To Close all tabs but that one you right click on right click on a tab and Close all tabs but this one. To close all tabs to the right of the one you right click right click on a tab and Close all tabs to right. To close all tabs to the left right click on a tab and Close all tabs to left. To reorder your tabs left click and drag the tab where you want it in the order.



If you want to view a particular page select the box (e.g. page 1/3) in towards the top left corner and type the page number (e.g. page 3/3). To move to the previous and next page press the `left arrow` and `right arrow` buttons respectively. Scrolling with the mousewheel past the end or beginning of a page will also change the page. Another way to move to the next page is to press `spacebar` or Edit ▸ Next page. Another way to go to the previous page is pressing `Backspace` or Edit ▸ Previous page. Another way to jump to a particular page is to press `control + j` or Edit ▸ Jump to page. To go back to page which you have just come from press `control + enter` or Edit ▸ Jump backward. To jump forward a page press `control + shift + enter` or Edit ▸ Jump forward. To move to the last page of the PDF press the `End` key or Edit ▸ Last Page. To move to the first page of the PDF press the `Home` key or Edit ▸ First page.

To select text or an image from qpdfview press `control+c` or Edit ▸ Copy to clipboard. Then the cursor will turn into a crosshair and you will be able to expand a box to select either text or an image and a menu to select copying the text, selecting the text, copying the image, or saving the image to file. Another way to copy text is to press `Shift + Left Click`.

To save your PDF file is to File ▸ Save or you can press `Control + s`. You can save the file with a different name with File ▸ Save as. To save a copy of the document click File ▸ Save a copy. If the next time you want to open a PDF to a specific page as first page right click Set first page. :menuselection:` If you want to quit qpdfview press `Control+Q`.

To view both the bottom of one page and the top of another page press `Control+7` or View ▸ Continuous. To view two pages at once like if you want to see a two page spread of an illustration in a PDF of a book press `Control + 6` or View ▸ Two pages. To get your view back to normal press `Control +6` again or View ▸ Two pages again. To view the first page as a separate title page and then two pages side by side press `Control+5` or View ▸ Two pages with title page. To toggle the view of three pages at a time press `Control +4` or View ▸ Multiple pages. To view right to left languages on qpdfview press `Control +Shift +R` or View ▸ Right to left. To view the fonts embedded in the PDF View ▸ Fonts.

To search through your PDF file you can press `control + f` or from the menu Edit ▸ Search. You will get taken to the results and will appear highlighted in yellow to see through the results you can press the down arrow, right click Find next, or press `F3` to see results farther in the document and press the upward pointed arrow button, right click Find previous, or press `Shift +F3` to see results towards the start of the document. To exit the search dialog press `Escape`, the Octagon button, right click Cancel search, or Edit ▸ Cancel search. If you want searches to match case check the Match case checkbox. To match entire words check the Whole words checkbox. To highlight all matches of words check the Highlight all checkbox.



To make qpdfview fullscreen you can press `f11` or View ▸ Fullscreen.

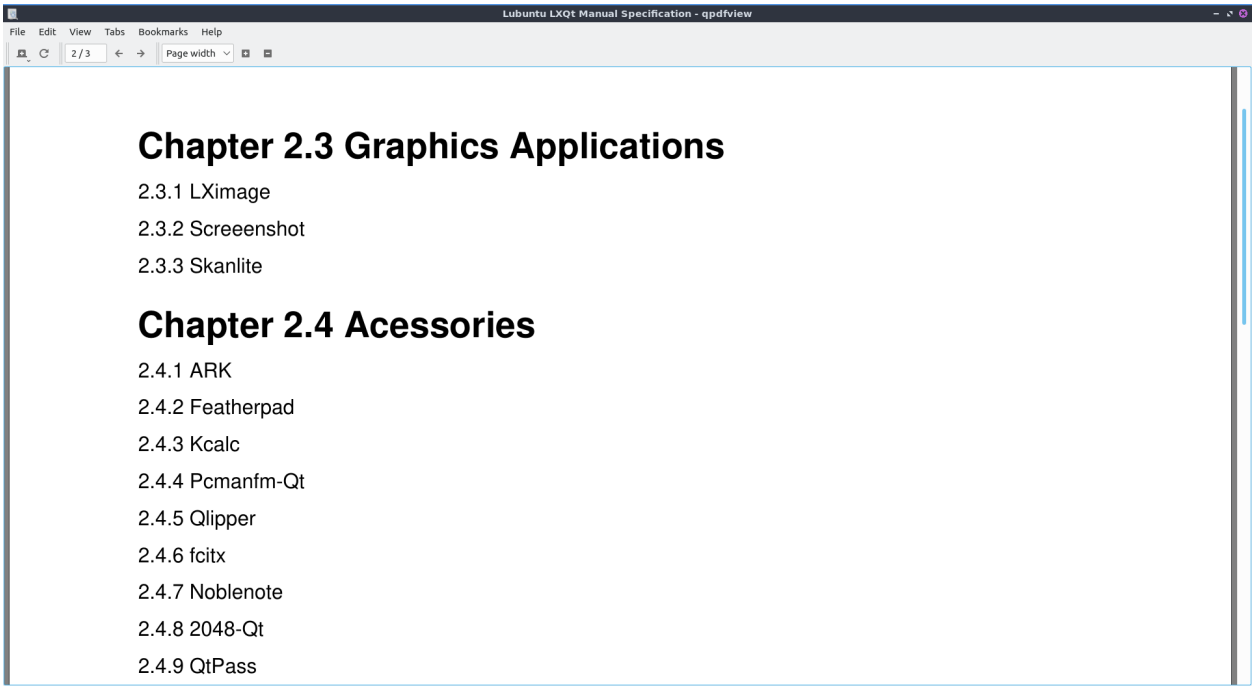
To make an annotation press `Control +A` or Edit ▸ Add annotation. To view the annotation you have made or edit it again press click on what looks like a sticky note with a pin in it. To remove your annotation right click on the annotation and click Remove annotation. If you just want to highlight something right click on the text and select Add highlight text.

To select page width in zoom in qpdfview is a drop down menu with page width to show the width of the page on qpdfview, View ▸ Fit to page width, or press `Control +9`. To view the whole page on qpdfview in this drop down menu select whole page, View ▸ fit to page size, or press `Control + 8`. To return to the original zoom press `Control + 0` or View ▸ Original size. To zoom in is press the magnifying glass with a + in it or press `Control + +` or View ▸ Zoom in. To zoom out press the magnifying glass button with a - in it or press `Control + -` or View ▸ Zoom out. To rotate the file to the left is press `Control + Left arrow` or View ▸ Rotate Left. To rotate the file to the right is press `Control + Right arrow` or View ▸ Rotate Right. Another way to rotate is to hold `Shift` and then use the mousewheel. Another way to zoom with the scrollwheel is to hold `Control` and zoom with the mousewheel.

To view a list of all tabs you have open you can select them by the title of the PDF by the bottom of the Tabs menu.

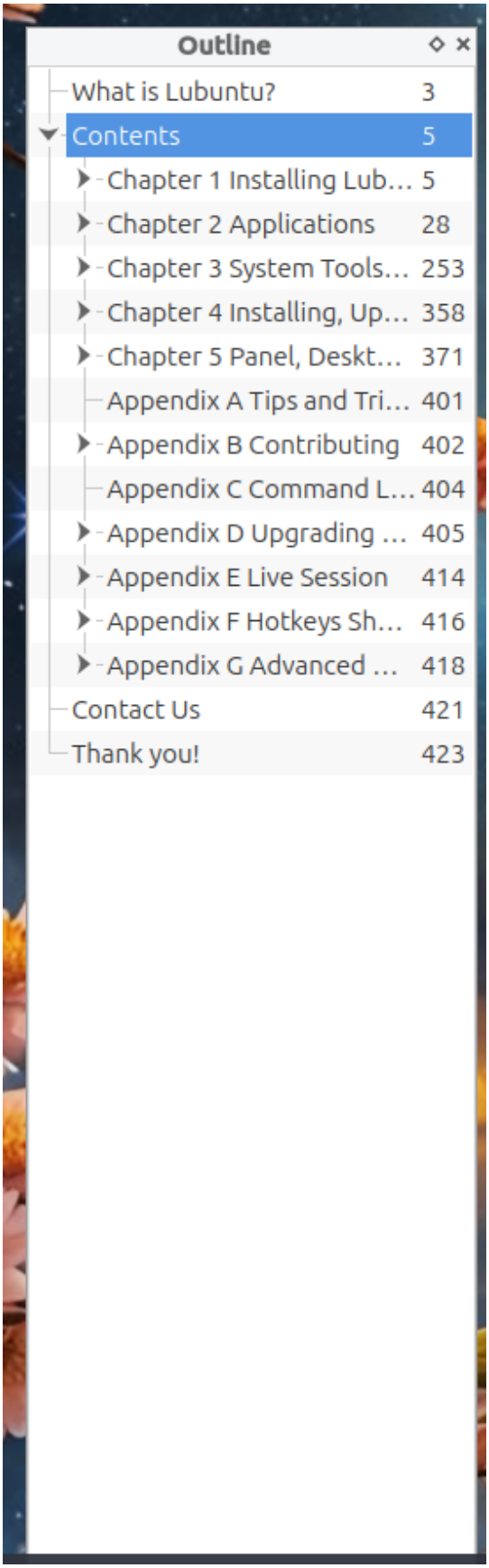
If you have a particularly long PDF file you might want to make a bookmark to find a specific thing easily. To create a bookmark press `control +b` or Bookmarks ▸ Add Bookmark and give the bookmark a memorable title and description so you can find it in this document again easily. If you later want to remove the bookmark go Bookmarks ▸ Remove bookmark or press `control+ shift+ B`.

Screenshot

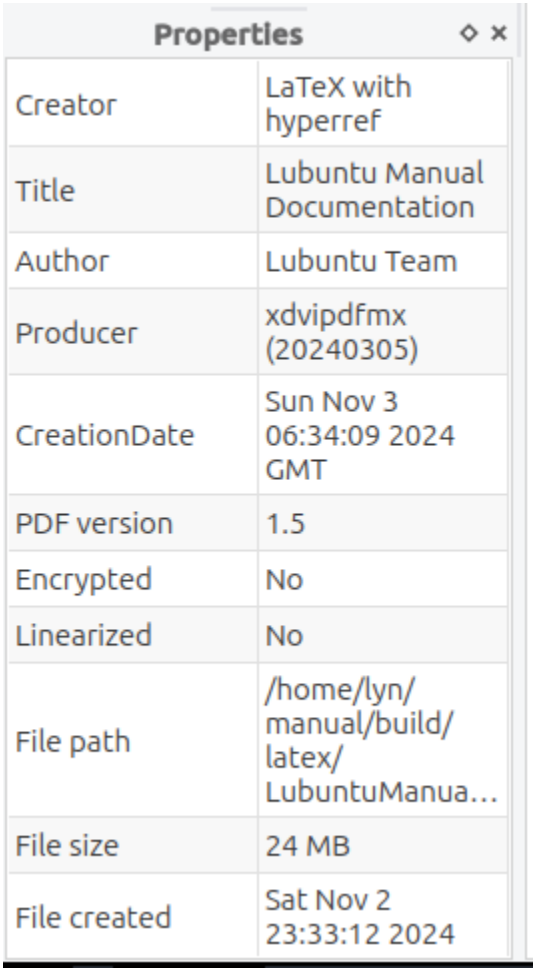


Docks

qpdfview also includes some very useful docks. To view the outline dock, in the menu select View ▸ Docks ▸ Outline (make sure the button is checked) or press F6 on the keyboard. It should appear on the left hand side of the PDF with collapsible sections and to expand or collapse each section left click on the ▸. To go to a particular part of the outline double click on that part of the outline. To see the entire outline right click on the outline and select Expand all. To have your outline back to the original state right click on it and select Collapse all. This is useful in navigating large PDFs.


Outline
What is Lubuntu? 3
Contents 5
Chapter 1 Installing Lub… 5
Chapter 2 Applications 28
Chapter 3 System Tools… 253
Chapter 4 Installing, Up… 358
Chapter 5 Panel, Deskt… 371
Appendix A Tips and Tri… 401
Appendix B Contributing 402
Appendix C Command L… 404
Appendix D Upgrading … 405
Appendix E Live Session 414
Appendix F Hotkeys Sh… 416
Appendix G Advanced … 418
Contact Us 421
Thank you! 423

To view properties of your PDF file press F7 or View ▸ Docks ▸ Properties. To see a thumbnail of each page View ▸ Dock ▸ Thumbnails or press F8 to view a thumbnail of each page of the PDF file. If you want to close one of these docks click the X button on the dock to close it. To detach a dock to its own floating window press the diamond button to detach it. To get the dock back to where it was press the diamond button again.



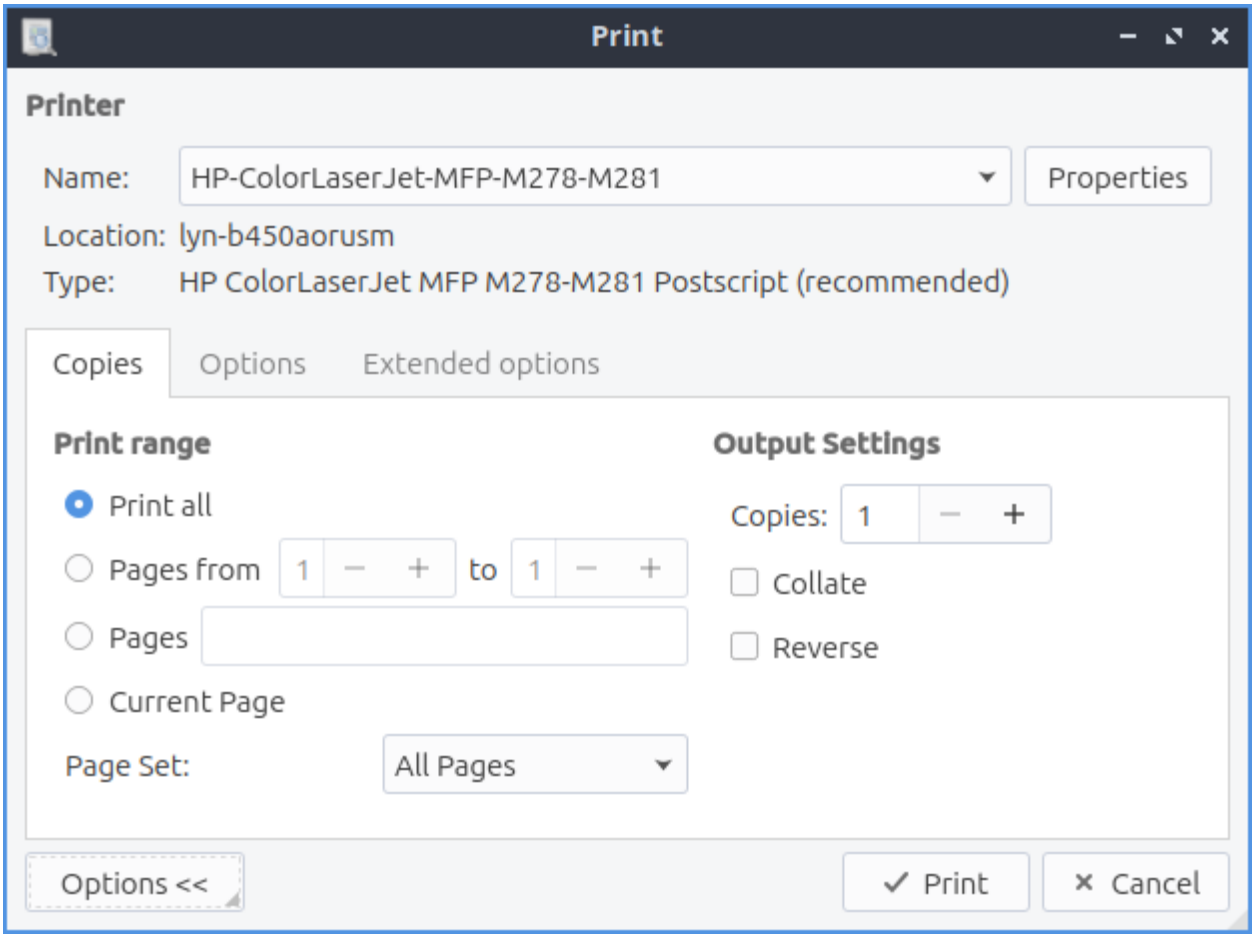
Presentation

To enter presentation mode you can press f12 or View ▸ Presentation which makes the content of the PDF take up the fullscreen and gives you no menubars or toolbars. To exit presentation mode you can press f12 again. To advance to the next page in the presentation press the spacebar or the right arrow. To go back a page in presentation press the left arrow. To exit the presentation press escape. To go to the first page of the presentation press the Home key. To go to the last page of the presentation press the End key.

Printing

To print your PDF press Control + P or File ▸ Print. To change what printer you use use the Name drop down to select the name of the printer. To see more options press the Options >> button to see more options when you print. To select which pages to print use the Pages from button and then the fields for the first page to print and then the last page to print. To change what pages you print and type the page number in use the Pages field. To print your

current page press the Current Page button. To change how many copies you print change the Copies field.

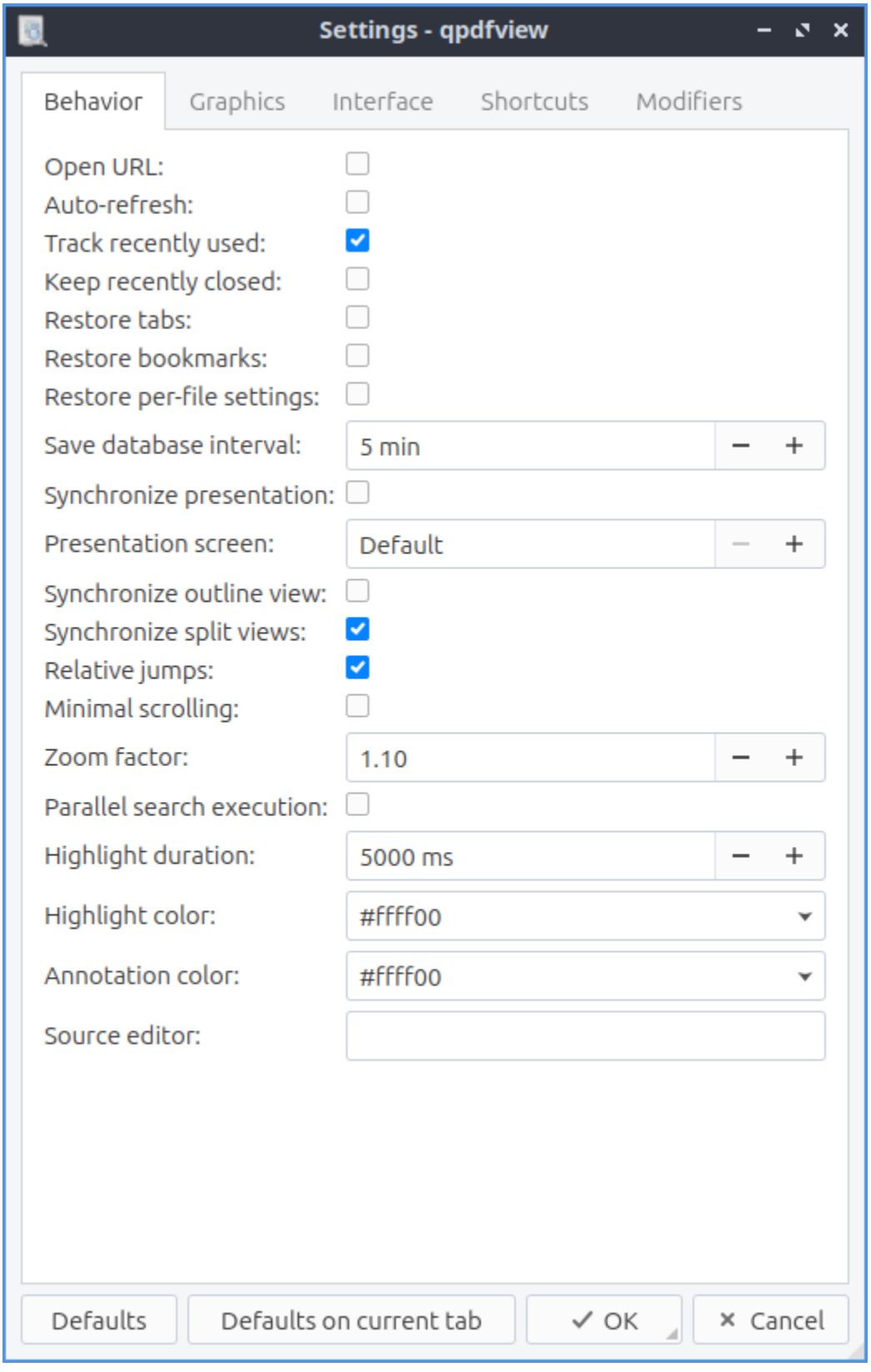


If you are printing the PDF in black and white you can however toggle previewing the file in black and white by pressing `Control + U` or View ▸ Convert to grayscale. To invert the colors of your PDF press `Control +I` or View ▸ Invert Colors. To trim the margins off your PDF file press `control +Shift +U` or View ▸ Trim margins. If you want to turn off changed colors or trimmed margins off press or use the menu in the same thing again.

Customizing

To add your own settings to qpdfview you can get to a settings window with Edit ▸ Settings. To change how qpdfview uses links or manages tabs left click on the Behavior tab. The checkbox Open URL allows you to turn on or off Opening URLs or links within qpdfview. The Auto-refresh checkbox reloads the PDF whenever the file changes which is useful for authoring PDF files. To have qpdfview keep track of recently check the Track recently used checkbox. To keep track of recently closed documents check the Keep recently closed checkbox. To open the tabs you had open last time with qpdfview the next time you open the program check the Restore tabs checkbox. To restore bookmarks after qpdfview is closed check the Restore bookmarks checkbox. To have per file settings restored each time you open qpdfview check the Restore per-file settings checkbox. To change the page in the main view in addition with the presentation check the Synchronize presentation checkbox. To change what screen you use for presentations change the Presentation Screen field to the number of the screen you want to use. To have your outline dock follow what section you are viewing check the

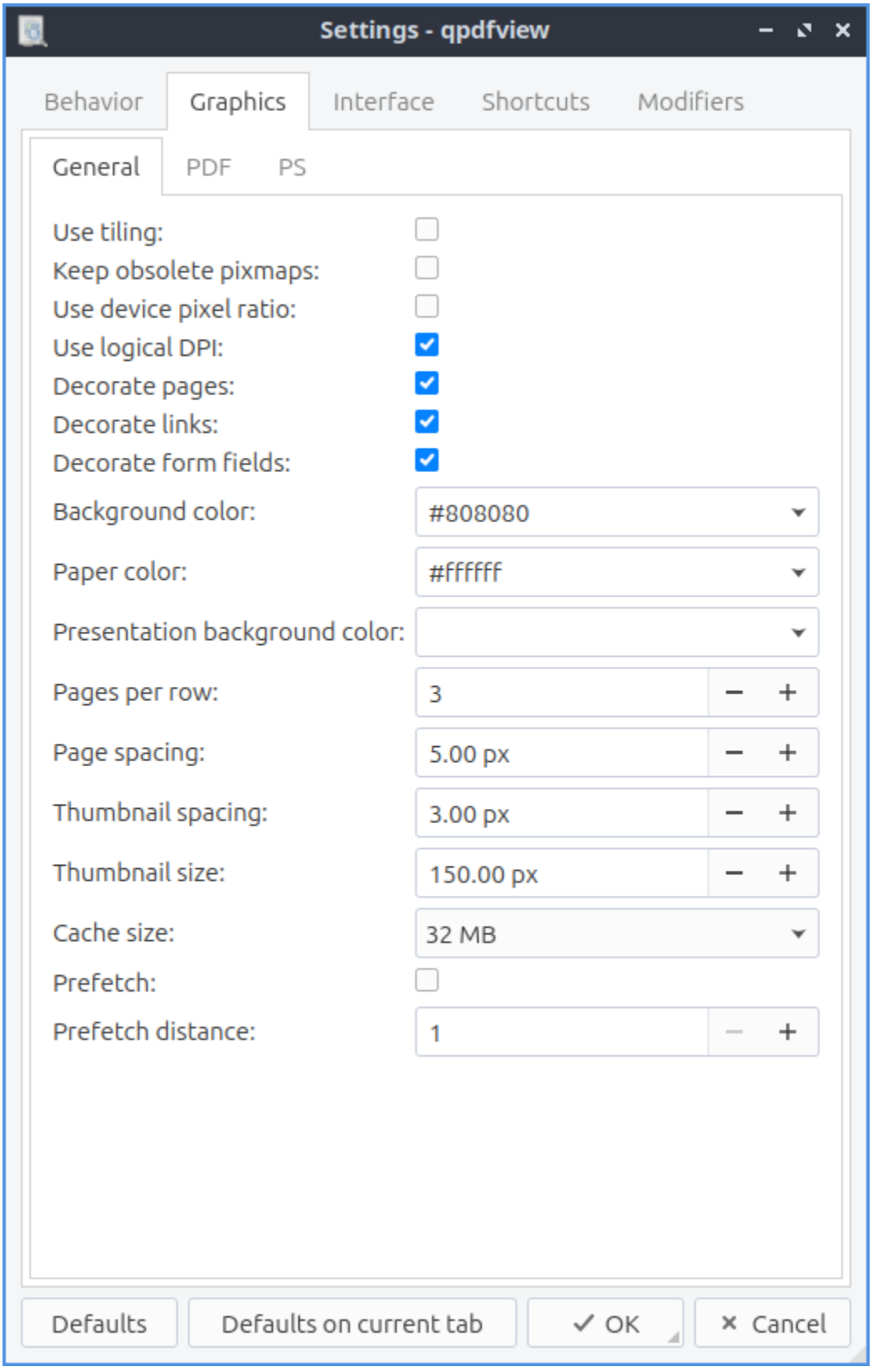
Synchronize outline view checkbox. If you want to scroll once to change an entire page check the Minimal scrolling checkbox. To change the color of highlights type a hex number for a color or select one from the Highlight Color drop down menu.



If you want to reset these settings to the defaults is to press the Defaults button. If you just want defaults on the current tab you can press the Defaults on current tab button. If you

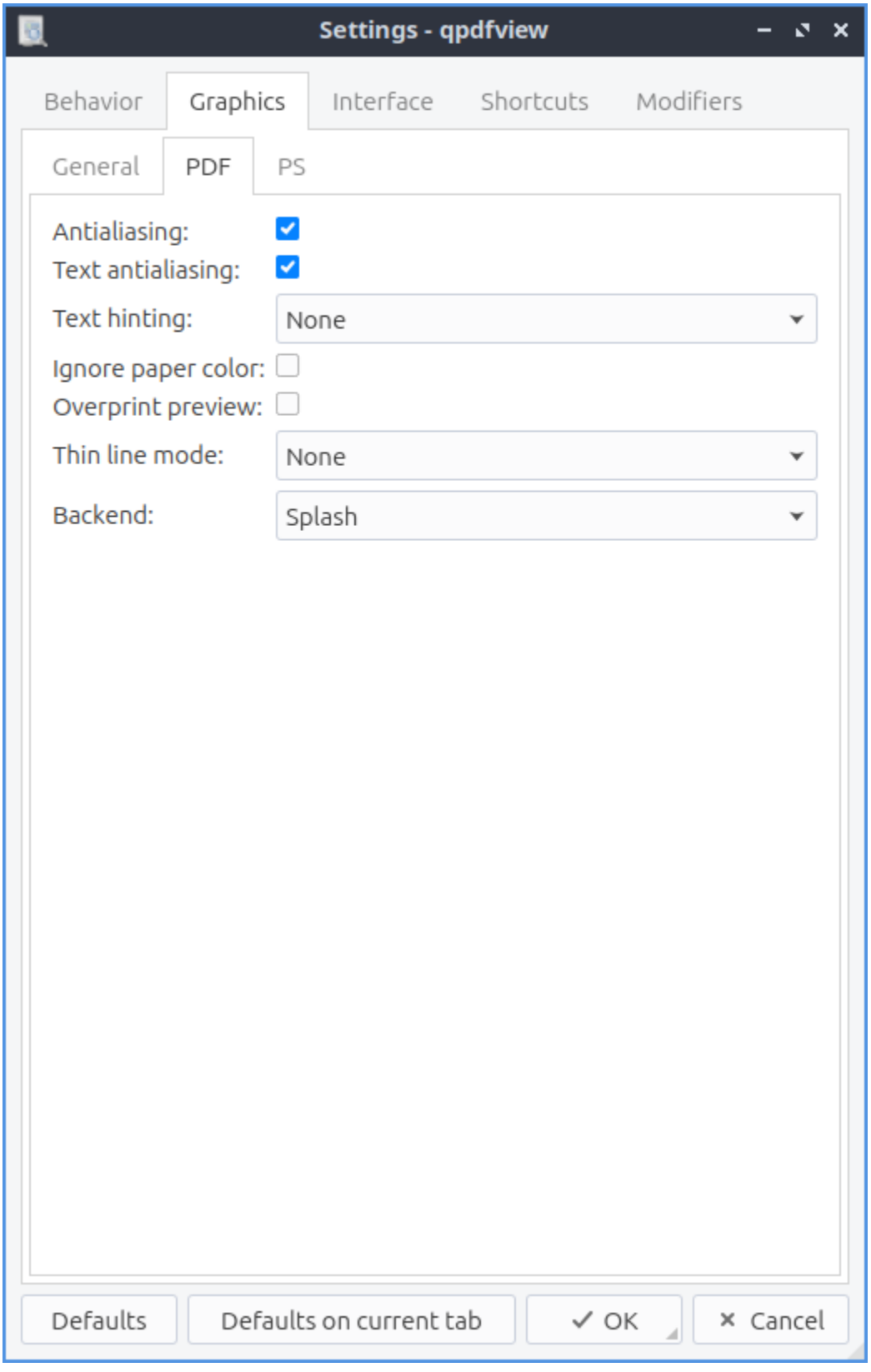
want to return to viewing your PDF with the same settings press the OK button. If you wish to discard your changes press the Cancel button.

To deal with settings on graphics press press on the Graphics tab. To toggle having a small decoration showing where different pages are check the Decorate pages checkbox. To toggle having a red border around hyperlinks check the Decorate links checkbox. To toggle having a blue borders around fillable forms in a PDF check the Decorate form fields checkbox. The settings for paper color will has a drop down menu for previewing what it is like printing on colored paper. The checkbox Prefetch will preload pages not directly viewed by the PDF viewer not directly on the screen however this will use more resources. The drop down for Cache size will increase loading speed but will use more resources. The Prefetch checkbox loads pages before you view them. The Prefetch distance tells you how many pages away from where you are to load. The field for Presentation background color sets the color of the background for presentations. The Cache size menu increases the size of the cache which will apply more system resources to run heavy PDFs with hundreds of pages of full color artwork.



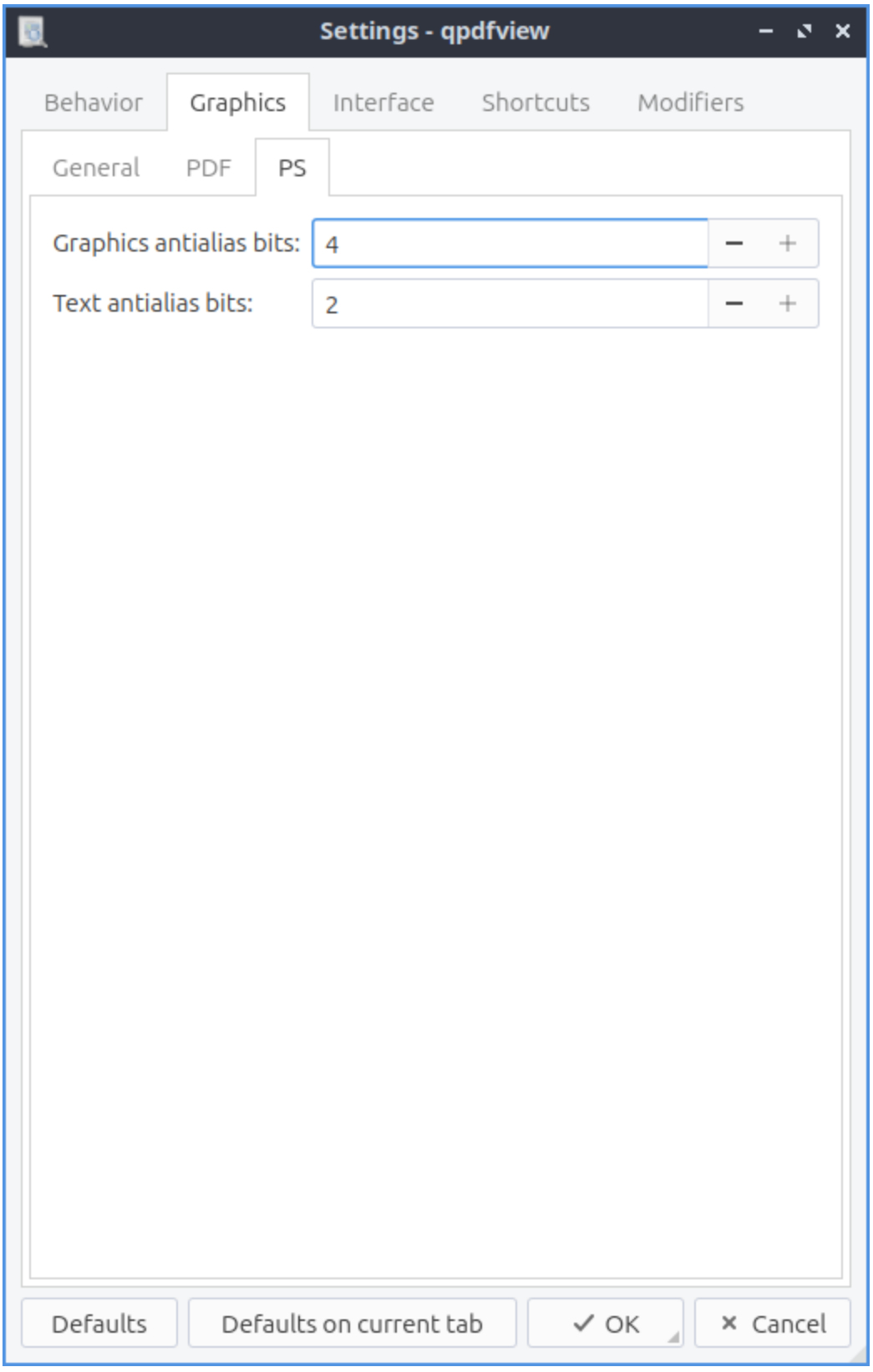
The PDF subtab of the graphics tab has settings for font and paper color for viewing PDF files. To antialias images check the Antialiasing checkbox. To antialias text check the Text

antialiasing checkbox. To use font hinting to view text easier to view change the Text hinting menu to Reduced or full. To not change the background color with change the Ignore paper color checkbox. To change how qpdfview draws thin lines change the Thin line mode drop down menu.

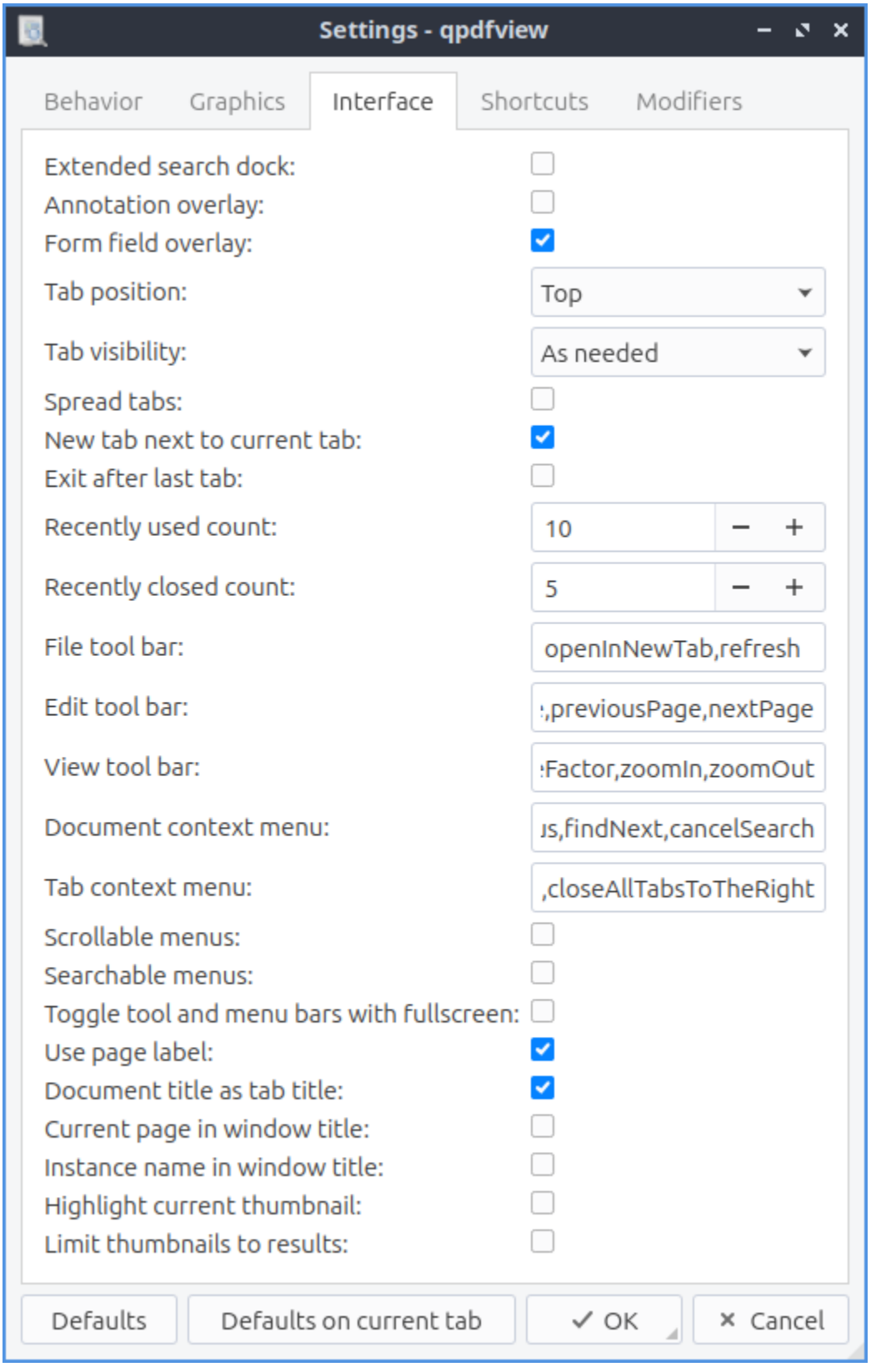


The PS subtab manages how Postscript files appear on the screen. To change how many bits are used for antialiasing graphics change the Graphics antialias bits field. To change the

number of bits of text antialiasing change Text antialiasing bits field.

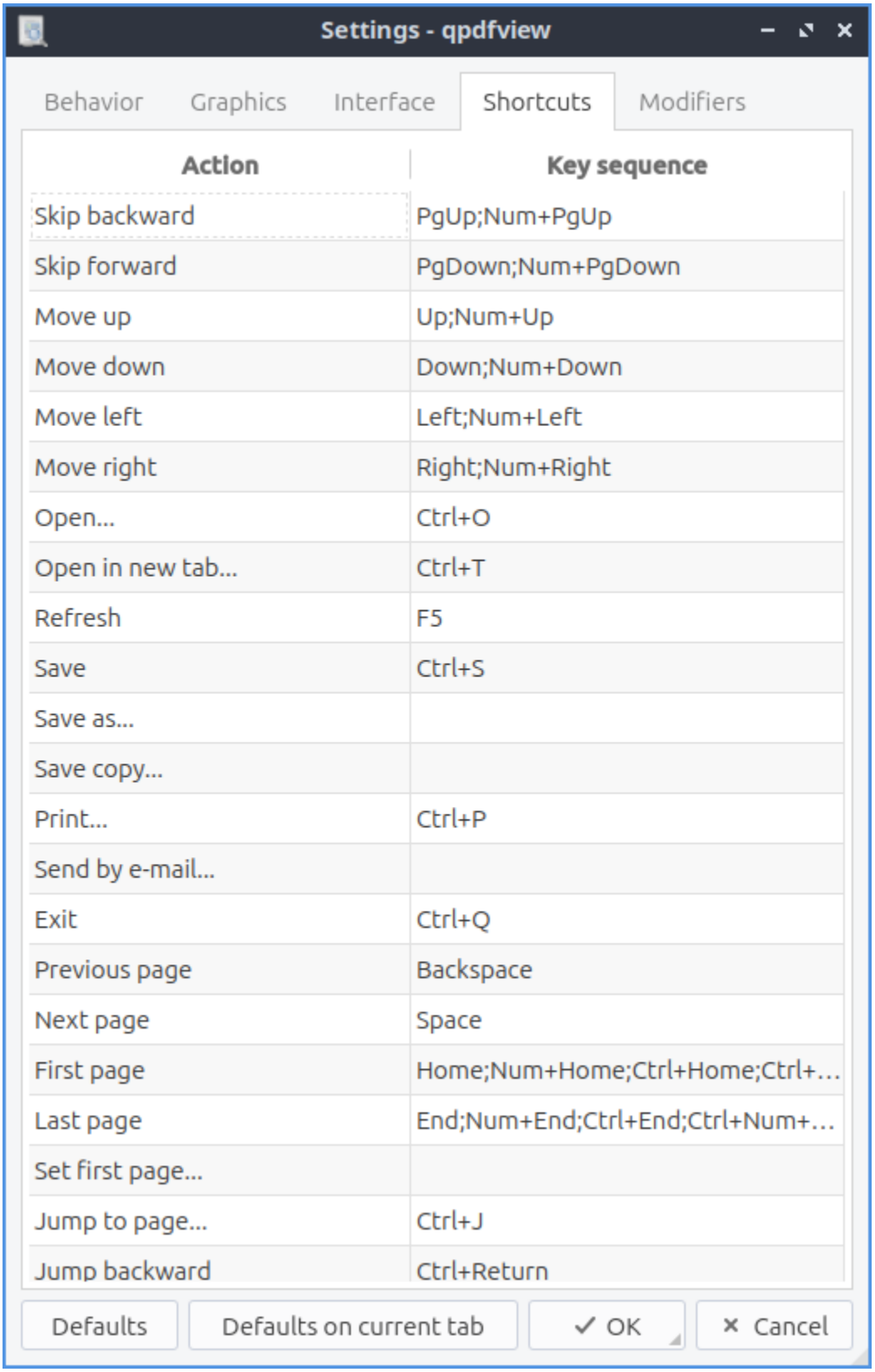


To change the interface settings click on the Interface tab. If you want the tabs to be spread out press the spread tabs checkbox. The Tab position changes where the tabbar on the window. The Tab visibility menu can be set to as needed, always or never which will show or hide the tabbar. The checkbox for New tab next to current tab opens new tabs next to the current one. The field Recently used count lets you set the maximum number of files to keep around in recently used. The Spread tabs checkbox spreads the tabs to take up the whole tab bar and they get smaller the more tabs you open. To have qpdfview close when the last tab in qpdfview is closed check the Exit after last tab checkbox. To change the number of recently used PDF files in the menu change the Recently used count field. To change how many recently closed tabs of PDFs are shown change the Recently closed count field. To toggle showing the current page in the window title check the Current page in window title.

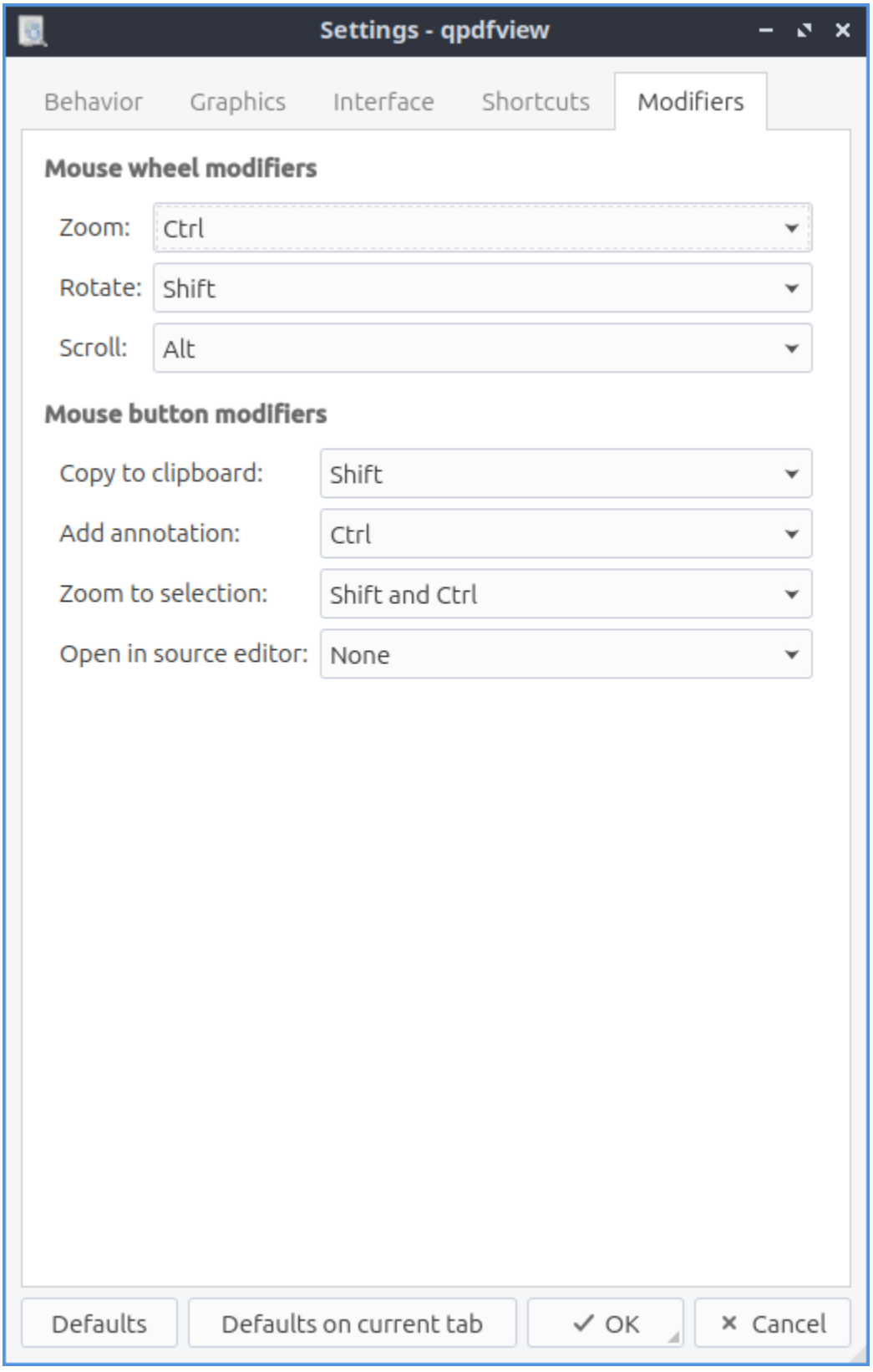


The Shortcuts tab provides the ability to customize keyboard shortcuts. The Action column is what each keyboard shortcut does. The Key sequence column shows the keyboard shortcut.

Double click in the key sequence column and type in your desired keyboard shortcut to change the keyboard shortcut.



The Modifiers tab allows you to change settings with the mouse and certain keyboard shortcuts in combination with the mouse. To change what keyboard shortcut to hold down while you hold down your mousewheel to zoom use the Zoom drop down menu. To change what keyboard key to hold down before using the mousewheel use the Rotate key. To change what key to press when you copy text to the clipboard when also pressing a mouse button use the Copy to Clipboard drop down menu. To switch which key you press when left clicking to add an annotation use the Add annotation drop down menu. To change what what you press to while left clicking to zoom to a selection change the Zoom to Selection drop down menu.


Settings - qpdfview
Behavior
Graphics
Interface
Shortcuts
Modifiers
Mouse wheel modifiers
Zoom:
Ctrl
Rotate:
Shift
Scroll:
Alt
Mouse button modifiers
Copy to clipboard:
Shift
Add annotation:
Ctrl
Zoom to selection:
Shift and Ctrl
Open in source editor:
None
Defaults
Defaults on current tab
OK
Cancel

Version

Lubuntu ships with version 0.5.0 of qpdfview.

How to Launch

To launch qpdfview go to the Menu Office ▸ qpdfview or run

```
qpdfview
```

from the command line. The icon for qpdfview looks like an eye with a blue background.

2.2.3 Chapter 2.3 Graphics Applications

This chapter documents programs with viewing pictures, taking screenshots, and scanning pictures or documents.

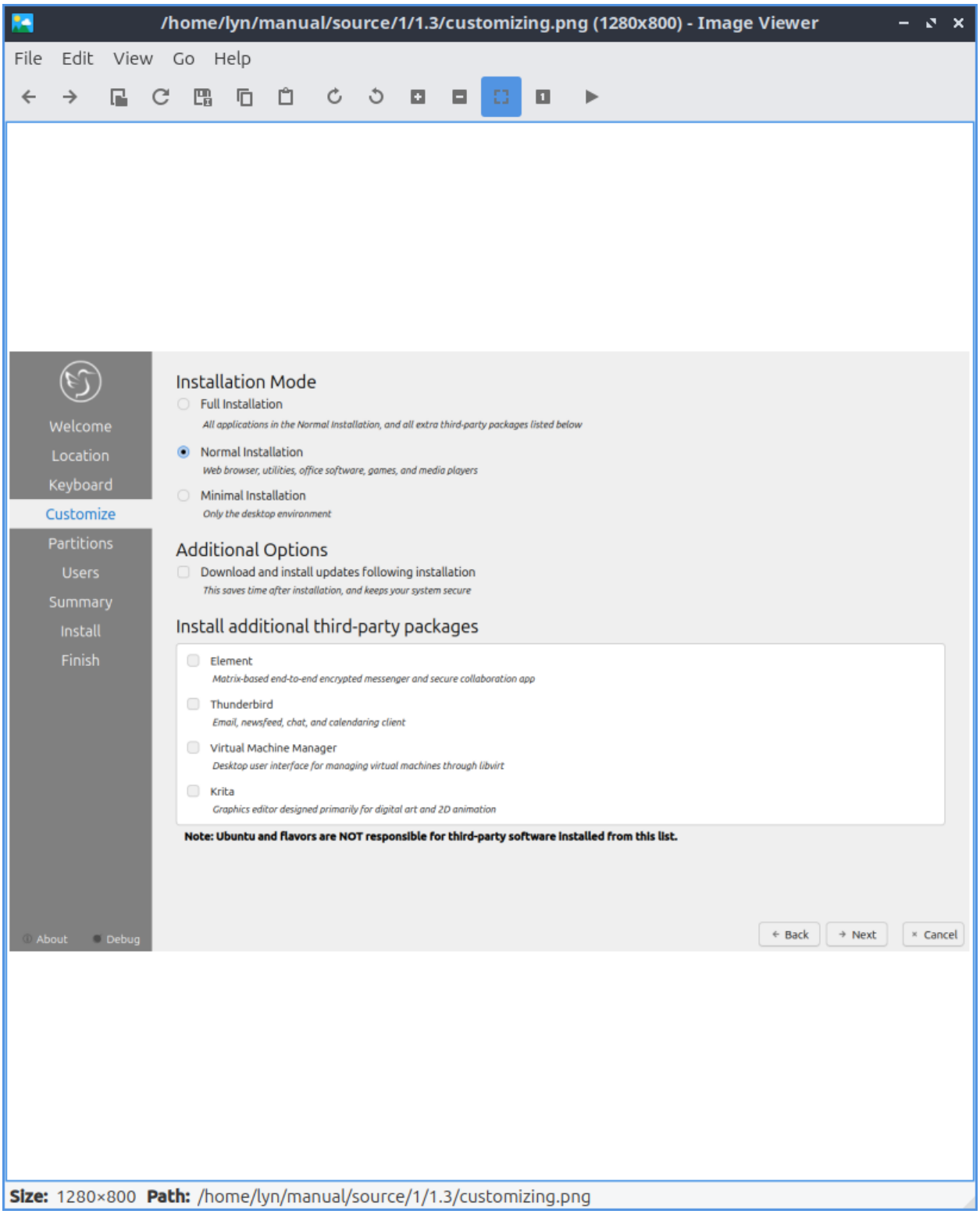
Chapter 2.3.1 LXImage-Qt

LXImage-Qt is the default image viewer for Lubuntu.

Usage

To open a picture press File ▸ Open File, `Control + O`, or press the button that looks like an upward pointing arrow. To open a directory full of images press `Control+D` or File ▸ Open Directory. If you do not like the picture press `Del` or File ▸ Delete. To open a new window of LXImage press `Control +N` or File ▸ New Window. To view the properties of your image by File ▸ File Properties. To view your recently viewed pictures File ▸ Recently Opened Files. To clear your recently opened files Files ▸ Recently Opened ▸ Clear. To reload your file after you save it again press `Control +R`, press the circular arrow button, or File ▸ Reload file.

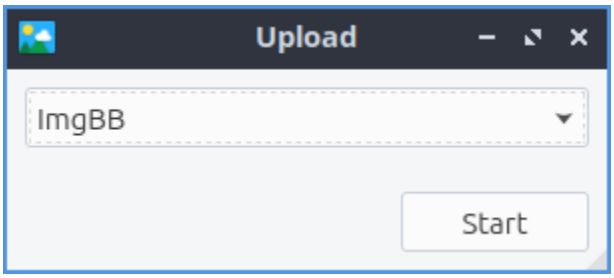
To have LXImage open the next file in a folder press `Right arrow` and to view the previous image press the `Left arrow`. To open an entire directory File ▸ Open Directory or press `Control +D`. To save the file as something press `Control+Shift+S`, the downward pointed arrow with an I on it, or File ▸ Save As. To save the file with the same file name press `Control+S` or File ▸Save. To rename a file press `F2` or Edit ▸ Rename.



If you wish to print a picture after viewing it from the File ▸ Pint or press `control+ p` to bring up a print dialog. To change the printer change the Name field. To toggle viewing more options for printing press the Options button. To change how many copies of an image you want to print change the Copies field. To collate the pages to print check the Collate checkbox. To reverse the order printed check the Reverse button. To exit the window with a

keyboard shortcut press the Escape key.

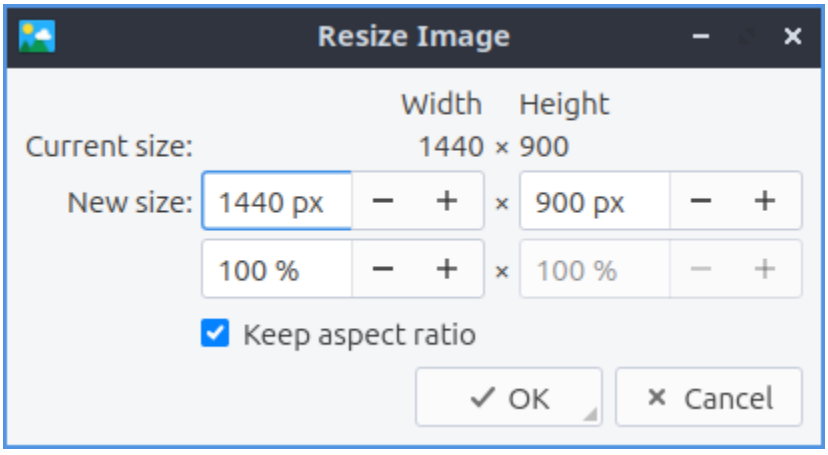
If you want to upload a picture to share it online File ▸ Upload or press Control + U and a new window will pop up with a drop down menu to show where to upload the picture to. To actually upload the file press Start. The URL of the image will then show up from after it is finished uploading. You can then copy the URL by selecting the text and then pressing Control+C or pressing the Copy button.



To rotate an image to the right press the circular arrow that points to the right, press R, or go to Edit ▸ Rotate Clockwise. To rotate counterclockwise use the circular arrow pointing to the left, press L, or Edit ▸Rotate Counterclockwise. To zoom in on a picture press the icon with a magnifying glass with a + symbol on it, View ▸ Zoom In, or press control + +. To zoom out press the button of a magnifying glass with a - symbol in it, View ▸ Zoom Out or press control + -.

To change the order of pictures in a folder select View ▸ Sorting and select how you want images sorted.

To flip your image on the vertical axis press V or Edit ▸ Flip Vertically. To flip your image on the horizontal axis press H or Edit ▸ Flip Horizontally. To change the image to a different size Edit ▸ Resize and a dialog box will show up. To see how large your image currently is in pixels view the Current size dialog. To change how wide the image is change Width column in the New size row. To change the height of the image under Height and change to the desired size. To change which size your image is in percentage change the field with % under Width. To allowing stretching the image while resizing it uncheck the Keep aspect ratio checkbox.

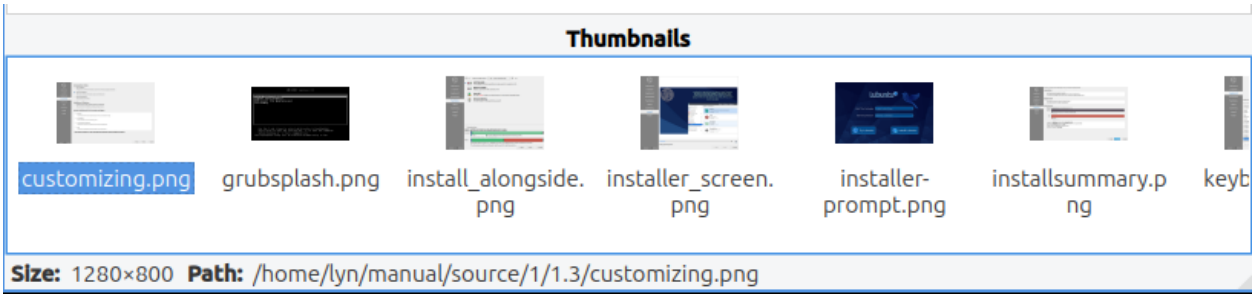


To see how big an image is on the bar at the bottom Size will tell you the size in pixels of an image. To see where the current image is saved read the path in the Path field.

To copy an image to the clipboard you can Edit ▸ Copy to Clipboard. To paste an image to the clipboard Edit ▸ Paste from Clipboard. To copy the path of an image to the clipboard Edit ▸ Copy Path.

To view the next picture on your image press the `right arrow`, right click Next File, `space`, or `page down` and conversely to view the previous image press the `left arrow`, right click Previous File, `Backspace`, or `page up`. You can also scroll between different pictures with the mousewheel or by pressing the right and left pointing arrow buttons on the toolbar. To jump to the first picture press `home` or Go ▸ First File. To jump to the last picture press `end` or Go ▸ Last File. You can also go to the next or previous files with Go ▸ Previous File or Go ▸ Next File.

To view thumbnails of the current directory you can toggle thumbnails by pressing `T` or View ▸ Show Thumbnails and thumbnails will show at the bottom with a scrollbar at the bottom of the window to view the whole folder. To open the thumbnail of a picture in a another program such as one to edit that picture right click Open With and select the program you want to edit with or you can do this by File ▸ Open With. To rename an image after viewing it right click on the thumbnail select Rename and type the filename for the picture you want. To move a file to the trash can right click on it and select Move to Trash.



To view the picture entirely press View ▸ Fit or the button with a vertical and horizontal arrow and a folded over bottom right corner. To return your image to its original size View ▸ Original Size or press the 1 toolbar button. To show an outline around the image press `0` or View ▸ Show Outline. To toggle showing information about the settings on the camera View ▸ Show EXIF Data.

To view the picture as fullscreen press `f11`, right click Fullscreen, double click on the image, or View ▸ Fullscreen. To exit fullscreen double click the image, press `F11`, or right click Fullscreen again. To have a slideshow of you pictures in your current folder View ▸ Slideshow or right click and select Slide Show. Once you start the slideshow on the toolbar a play pause button will appear on the toolbar or you can stop the slideshow by right clicking and selecting Slide Show.

To close LXImage press `Control+w` or File ▸ Close.

Annotations

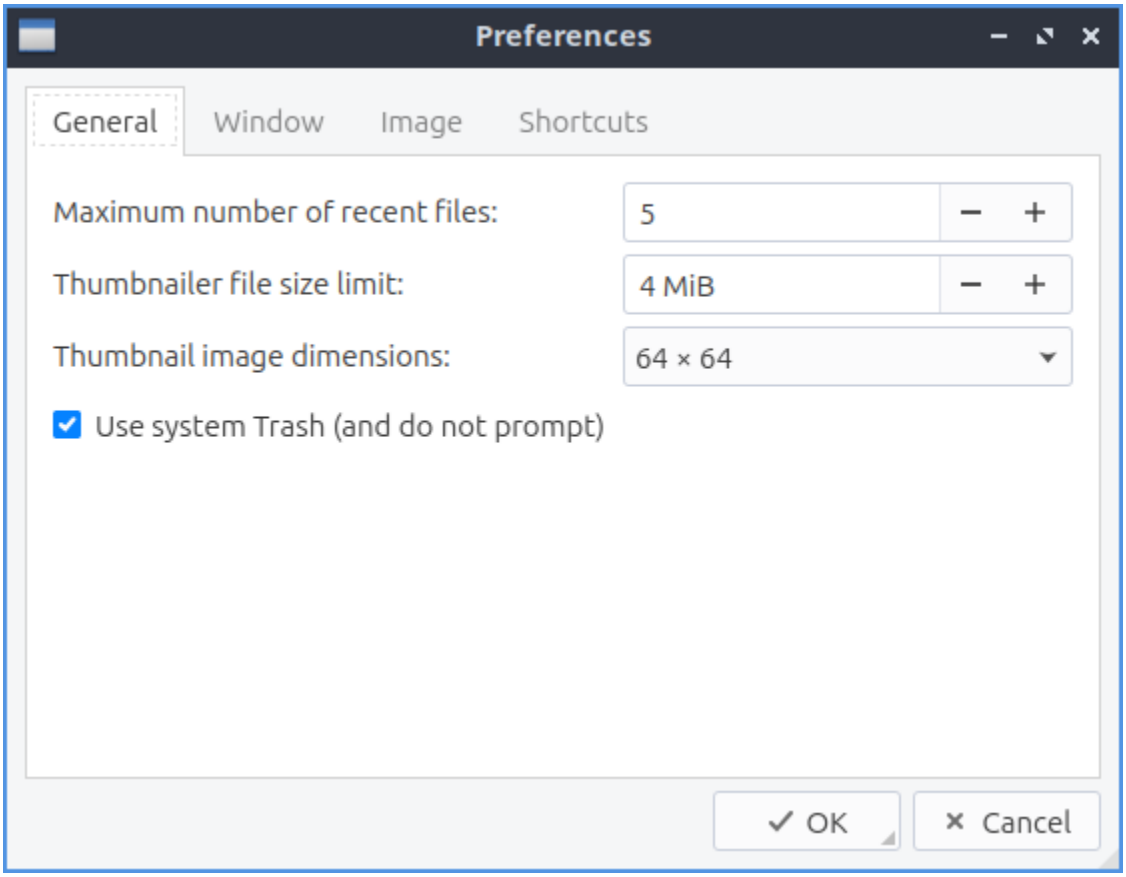
To show annotations controls View ▸ Annotations Toolbar or right click and select Annotations Toolbar. To edit your images with LXImage there are several buttons on the right hand side of the toolbar. To draw and arrow press the button that looks like an arrow click once where you want the arrow to start and then drag the direction you want the arrow to point and click it where you want the arrowhead to be. To draw a hollow rectangle left click on the button with a hollow rectangle and click and drag to the size of the rectangle you want. To draw a hollow circle annotation press the button that looks like a hollow circle. To draw numbers on your pictures press the 3 button. To stop drawing annotations press the button with a circle with a slash through it.

Warning

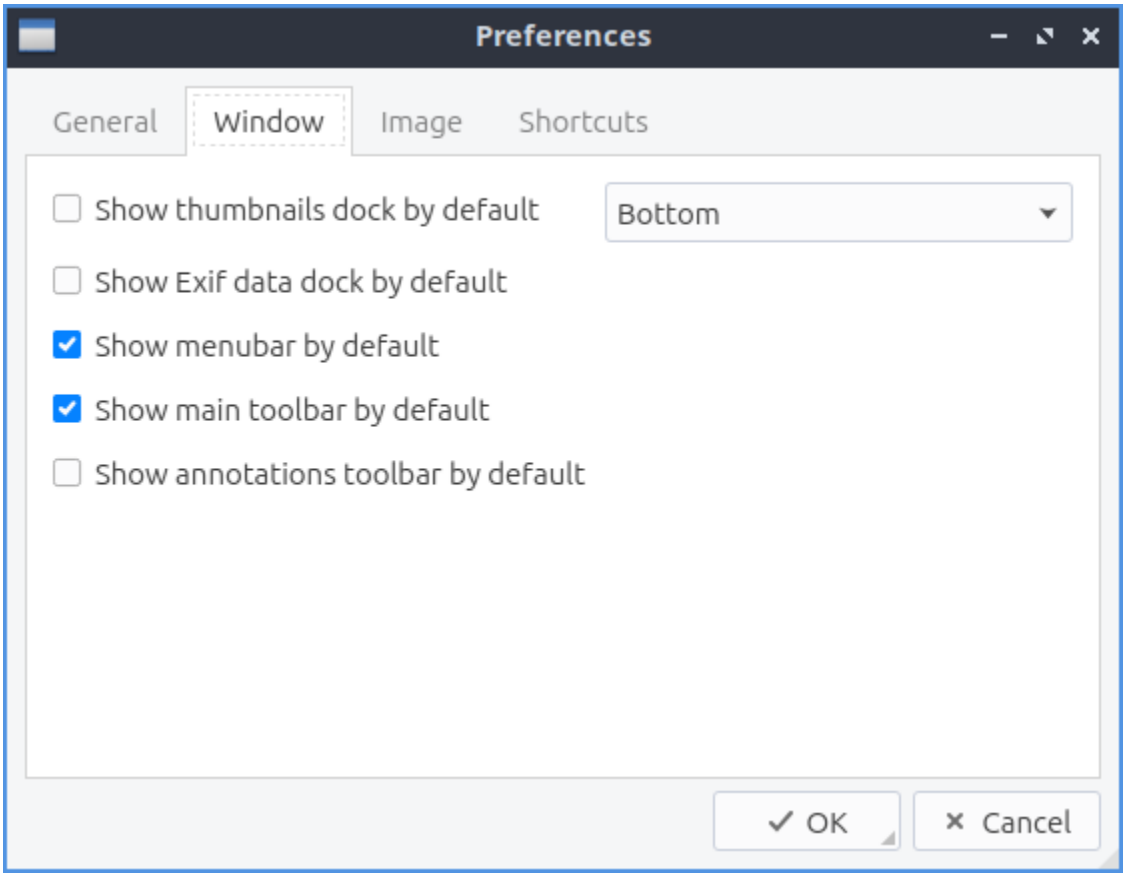
Annotations in LXImage-Qt cannot be undone with an undo functionality. Also you will not be prompted to save your unsaved annotations when closing LXImage-Qt.

Customizing

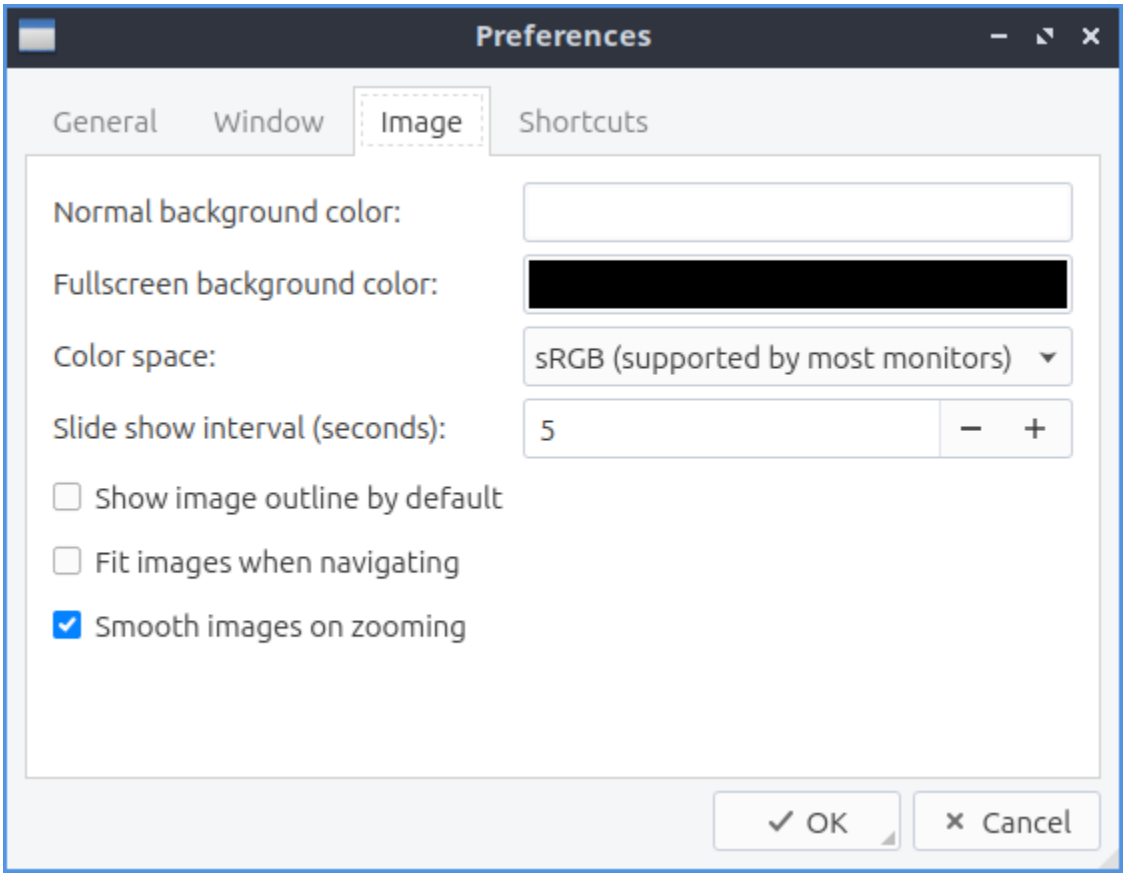
To change preferences in LXImage Edit ▸ Preferences. The General tab has settings for recent files, thumbnails, and trash. To cancel your changes press the Cancel button. To not generate thumbnails for really large images change the Thumbnailer size limit field. To change how big thumbnails to use change the Thumbnail image dimensions field. To apply your settings and exit the preference dialog by pressing the OK button.



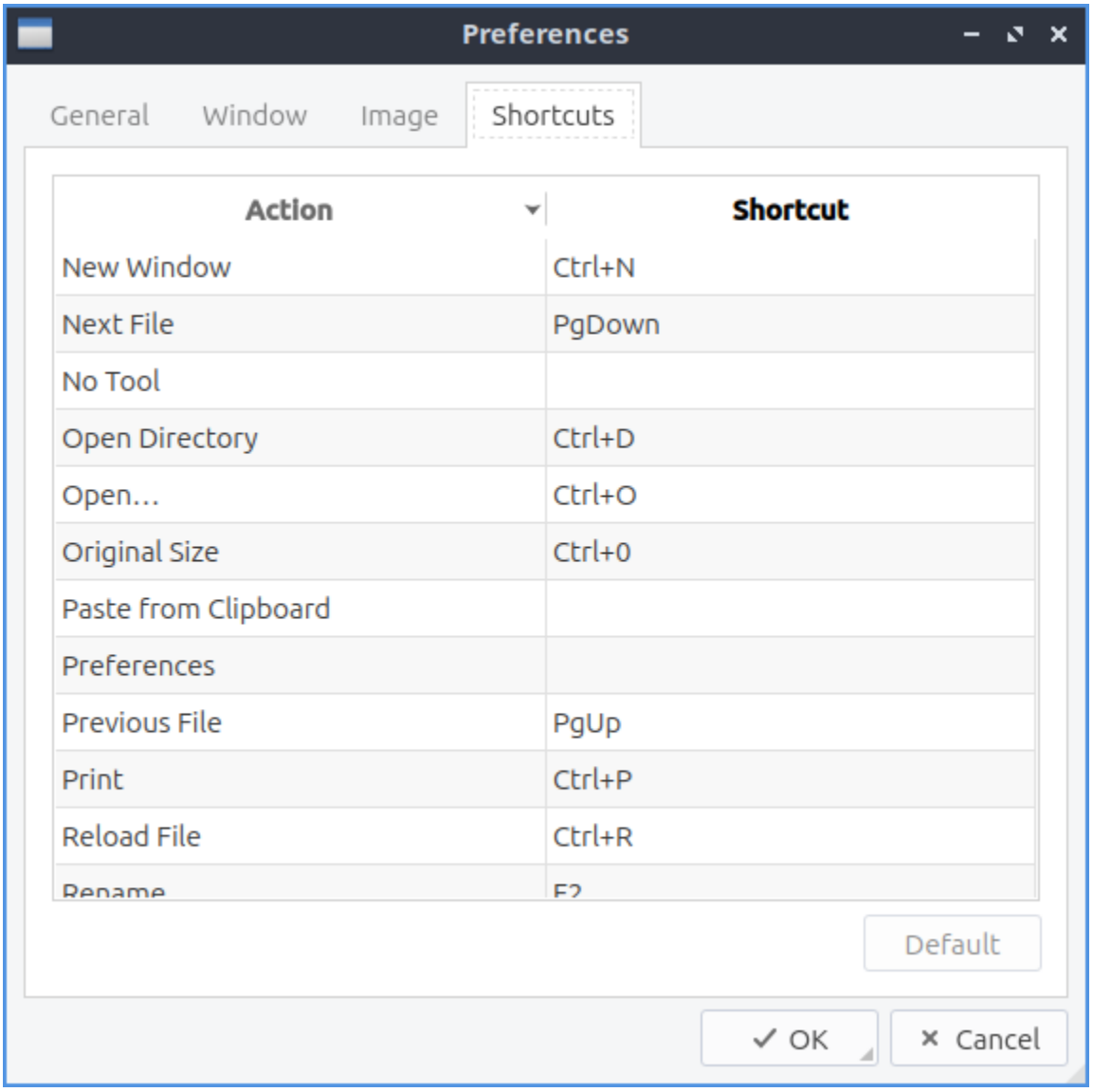
The Window tab manages how the window appears. To show the thumbnails dock by default check the Show thumbnails dock by default checkbox and choose where it is to the right. To show metadata about your pictures by default check the Show Exif data dock by default checkbox. To toggle showing the menubar check/uncheck the Show menubar by default checkbox. To toggle showing the main toolbar check/uncheck the Show main toolbar by default checkbox. To show the annotations toolbar by default check the Show annotations toolbar by default.



The Image tab has settings for how LXImage displays images. To change the background color in a window press the button next to Normal background color and then a window will pop up showing your color choice. To change the background color when fullscreen press the button next to Fullscreen background color and the same color picker window will appear. To change how long it takes for a each slide to change change in a slideshow change the Slide show interval (seconds) field. To show the image outline by default check the Show image outline by default checkbox. To fit images when navigating check the Fit images when navigating checkbox. To smooth images when you zooming check the Smooth images on zooming checkbox.



The Shortcuts tab has settings for changing keyboard shortcuts in LXImage. To see what a shortcut will do read the General column. To change a shortcut double click on the Shortcut column and press what you want the shortcut to be. To reset keyboard shortcuts to default press the Default button.



Version

Lubuntu ships with version 2.4.0 or LXImage-Qt.

How to Launch

To launch LXImage from the menu Graphics ▸ LXImage-Qt or run

```
lximage-qt
```

from the command line. The icon for LXImage is an orange landscape scene of a sunset.

Chapter 2.3.2 ScreenGrab

ScreenGrab is the default screenshot tool for Lubuntu after Lubuntu 19.10.

Usage

To take a new screenshot press the button with a piece of paper with a + on it or press `Control+N`. After doing this a preview will appear in the center of the window. If you want to save this screenshot press the save downward pointing arrow or press `Control+S`. To copy your screenshot to a clipboard press the button with two pieces of paper or press `Control+C`. To edit your screenshot in an image editor Edit in and select the program you want to use to edit or double click on the image to open it in an editor. To quit ScreenGrab press `Escape` or press the button to the right with a door and a rightward pointed arrow.

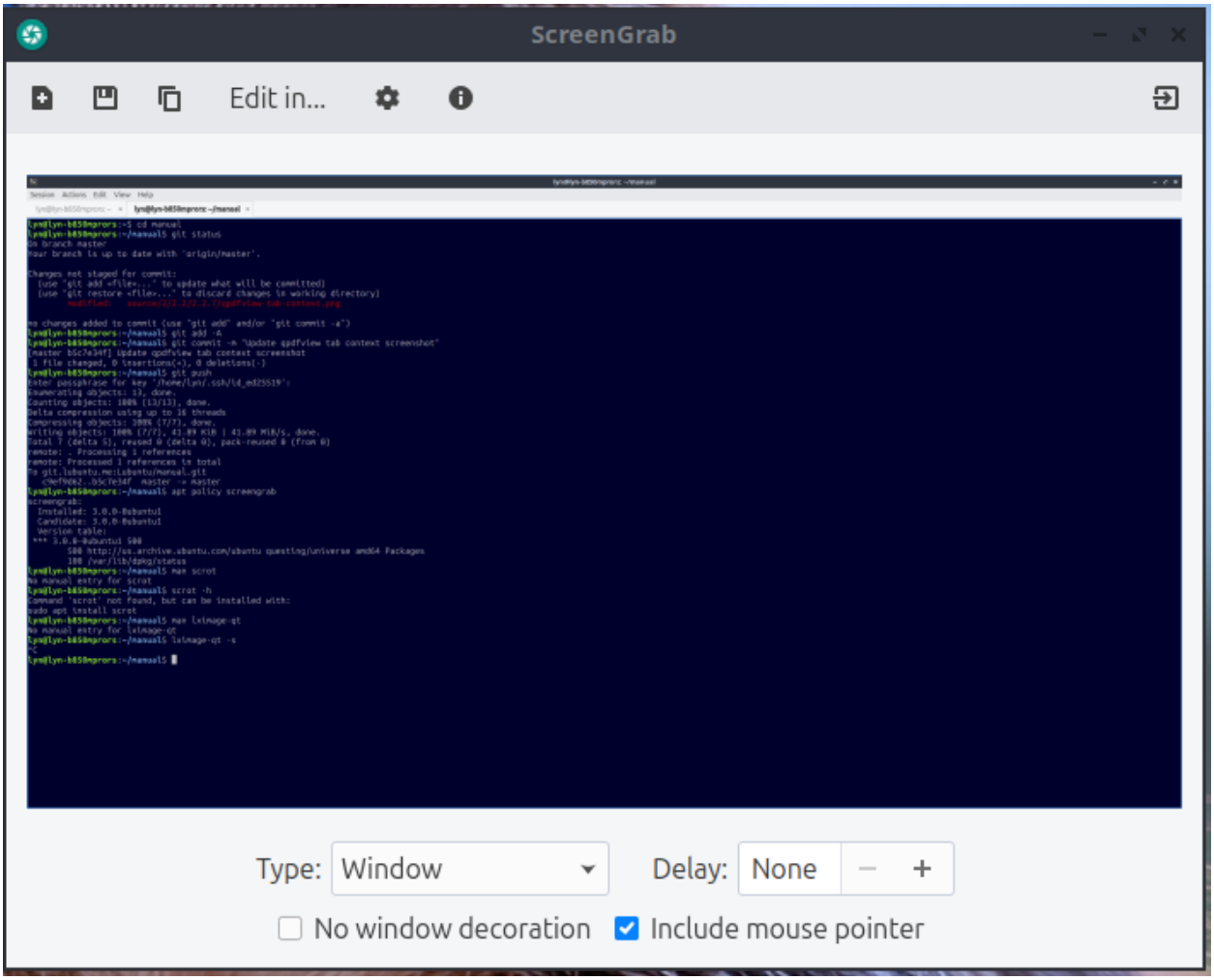
To change what mode to select what are of the screen to take a screenshot from change the Type drop down menu. The options in the Type menu are Full screen to take a picture of everything on all of your screens. From the Type menu select Window to select your last window. To choose the last area of the screen you selected select Last Selected Area from Type menu. To change how long to delay before taking the screenshot change the Delay field. To include the mouse pointer in your screenshot check the Include mouse pointer checkbox. To not have titlebars of the window check the the No window decoration checkbox. To more precisely select which exact pixel you want to select when selecting an area of the screen check the Zoom area around mouse checkbox.

To take a screenshot where you select the screen with the mouse double click to get a where you currently have selected. To select at where there is a change in the image right click after sizing screen area to have ScreenGrab autoselect where to take the edge of the screenshot. To see how many pixels your screenshot will be when selecting a screen area it will show in the lower right hand corner of the screen.

To quit ScreenGrab press `Escape` or press the Rightward pointing arrow on the top right of the toolbar.

If you have the system tray enabled ScreenGrab can do many things by right clicking it. To hide ScreenGrab left click on the tray icon and select Hide. To show ScreenGrab this way left click on the tray icon or right click the tray icon and select Show. To have ScreenGrab take a new screenshot from the system tray right click on the tray icon and select New. To save your screenshot from the tray icon right click on it and select Save. To copy your screenshot to the clipboard from the systray right click on the icon and select Copy. To open ScreenGrab preferences from the system tray right click on the system tray and select Options. To quit ScreenGrab from the system tray right click on the tray icon and select Quit.

Screenshot



Version

Lubuntu ships with version 3.2.0 of ScreenGrab.

How to Launch

To launch ScreenGrab Graphics ▸ ScreenGrab or from the command line run

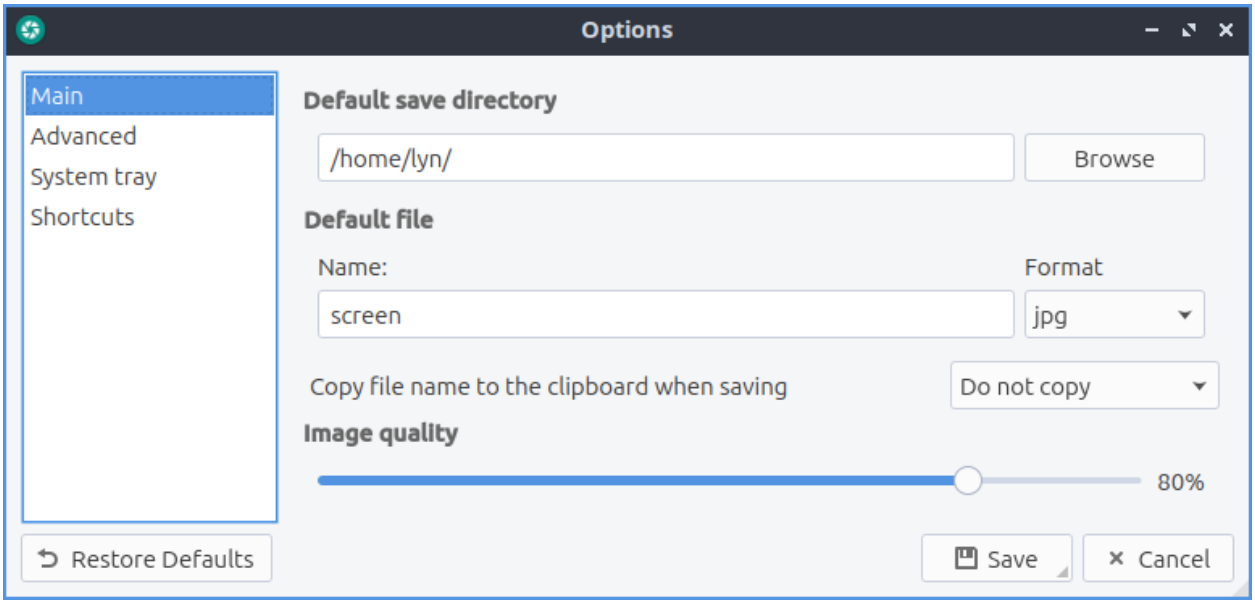
```
screengrab
```

The icon for ScreenGrab looks like a teal camera shutter with a white layer on top.

Customizing

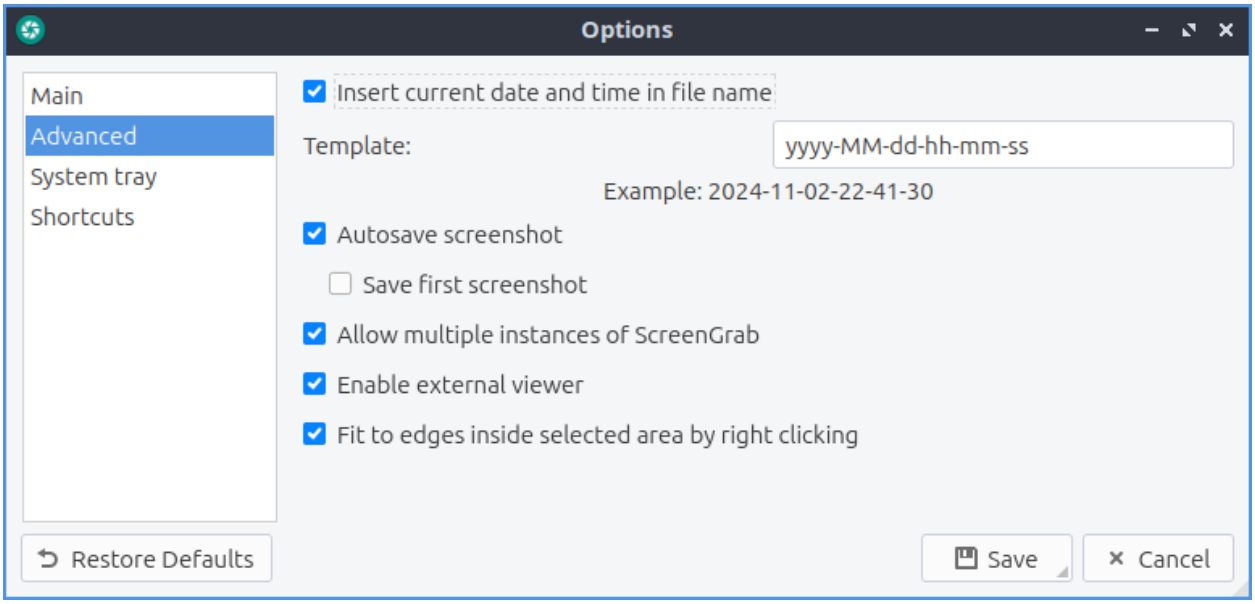
To change your settings on ScreenGrab press the gear button or press `Control +P`. The Main tab has settings for saving your screenshot and image quality. To change where ScreenGrab saves files by default change the Default save directory field or press Browse button to pop up a dialog to choose where to save. To change the default file name for your screenshots change the Name field. To change what format to save as by default change the Format drop

down menu. To choose to copy the file name to the clipboard change the Copy file name to the clipboard when saving menu. If you are saving a JPEG image you can change the image quality with the Image quality slider.

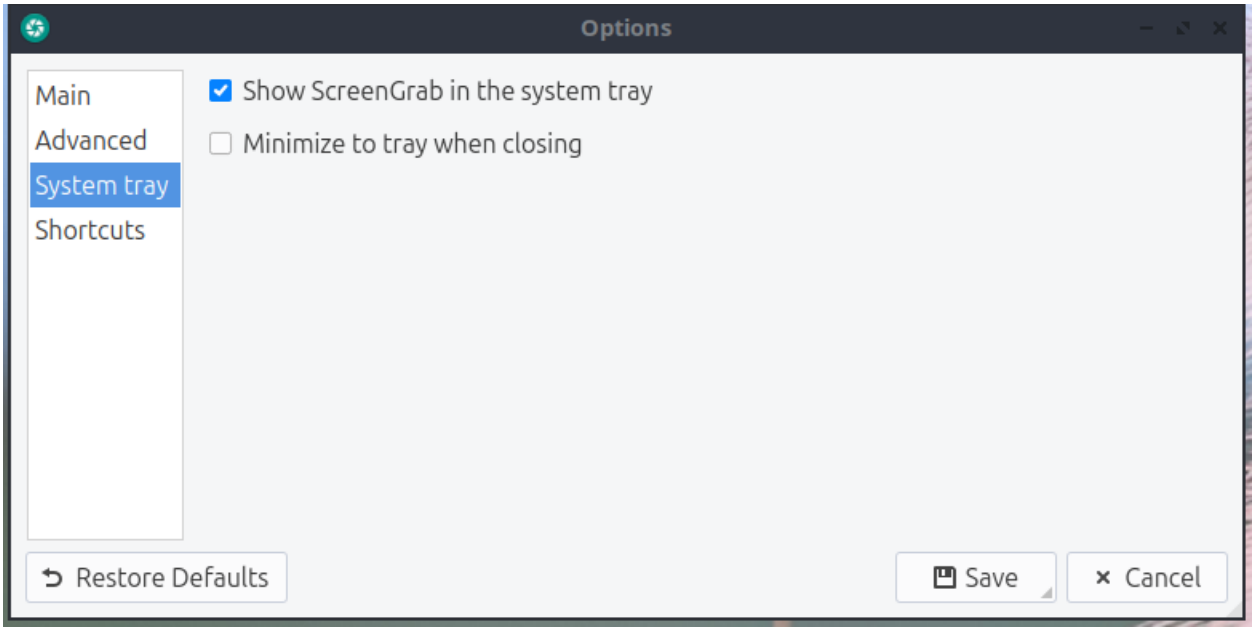


To restore your options to default press the Restore Defaults button. To cancel making changes press the Cancel button. To save your changes press the Save button.

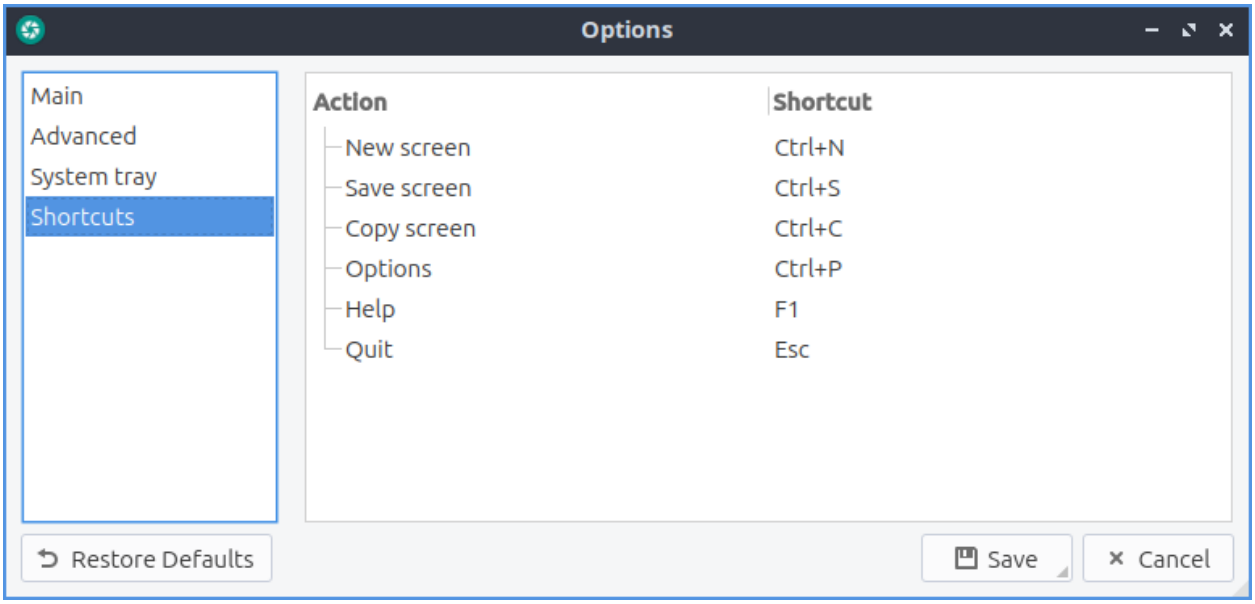
To change your settings on multiple windows and automatically saving use the Advanced tab. To automatically insert a time and date in the file name check the Insert current date and time in file name checkbox. To change how this date appears enter the date in the Template field that only shows if you insert the date and time. To automatically save each screenshot check the Autosave screenshot checkbox. To save the first screenshot check the Save first screenshot checkbox that only shows if you are autosaving screenshots. To allow more than one ScreenGrab window check the Allow multiple instances of ScreenGrab checkbox. To allow editing in a different image viewer check the Enable external viewer checkbox. To have selection autoselect an edge like of a window check the Fit to edges inside selected area by right clicking checkbox. To add a notification on saving and copying check the Notify on saving and copying checkbox. To change how long to show the notification use the Duration field.



To changes with how ScreenGrab shows in the system tray use the System tray tab. To toggle showing ScreenGrab in the system tray check/uncheck the Show ScreenGrab in the system tray checkbox. To not close ScreenGrab when closing the window but keep it in the system tray check the Minimize to tray when closing checkbox.



To change what your keyboard shortcuts ScreenGrab uses select the Shortcuts tab. To see what each shortcut does is on the Action column. To see what key to press get have the action happen is listed in the Shortcut column. To change a keyboard shortcut and then press the button at the bottom of Selected shortcut and press the keyboard shortcut you want to use for that shortcut.



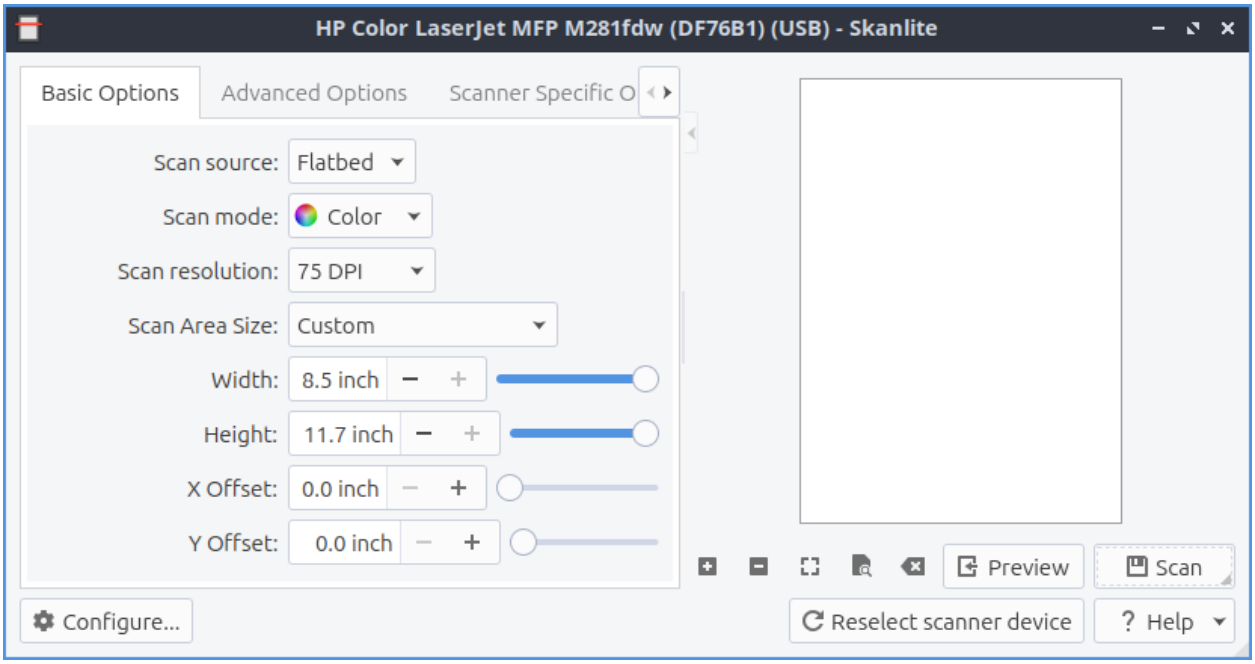
Chapter 2.3.3 Skanlite

Skanlite is the default scanning application for Lubuntu.

Usage

To preview what you want to scan press the Preview button and you can make sure the scan is in a good position. With this done you can press the Scan button to scan the document after this a dialog will show up asking you were to save what you are scanning. If you want to cancel your scan midway through the scan or preview click on the red octagon with a white inside x button to cancel the scan while the scan is in progress. Then a file save dialog will pop up and type the file name you want in the File name field and then press the Save button.

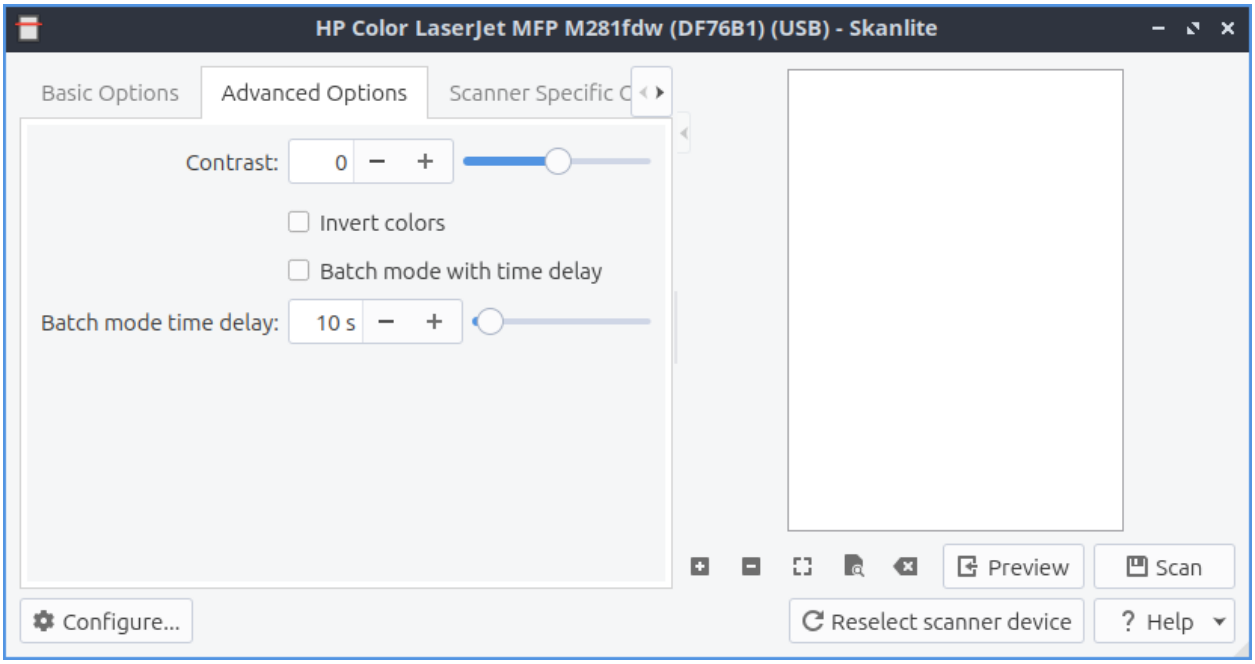
If your scanner is not detected a you will get a device saying “Sorry no devices detected” while having a button for Reload devices list to try and find your scanner again. If you want to cancel press the Cancel button.



To change the dpi or dots per inch is the dpi drop down menu for Scan resolution but keep in mind the higher the number of dpi the better the picture quality but the longer it will take to scan. Changing the Scan mode allows you to select color to select color scanning or gray to only show your scan in gray and not use color ink if you would want to print it out again. To select a specific paper size to scan use the Scan Area Size drop down menu. To choose a width of your scan change the Width field. To change the Height of your area to scan change the Height field. To add an offset on the x axis use X offset field. To change the offset of the y axis use the Y Offset field.

To zoom in press the magnifying glass button with a plus sign conversely to move out press the magnifying glass button with a minus sign. To clear a selection of area to scan left click the leftward pointing arrow with an x button.

To change brightness, contrast or even invert colors use the Advanced Options tab. To change the brightness of a scan slide the Brightness slider or input a positive or negative number into the numeric field. To change contrast slide the Contrast slider or input a positive or negative number in the numeric field. To toggle inverting your colors on the scan check/uncheck the Invert colors Checkbox. To change the delay between scans in a batch scans when scanning in batch mode use the batch mode delay time field.



To select part of a scan you particularly want to save is to click over a preview of a scan and you will drag the selection with the mouse. To clear selections that can be automatically selected but canceled by press the leftward pointing arrow with an x on it. If you want to zoom to your selection right click Zoom to selection. If you want to zoom to fit the whole entire page right click Zoom to fit. To zoom in the scan preview press the + button.To zoom out from the scan preview press the - button.

To change to your specific options for your scanner use the Scanner Specific Options tab.

Version

Lubuntu ships with version 26.08.0 of Skanlite.

How to Launch

To launch Skanlite turn on your scanner and that it is connected to your computer. To launch the application go to the menu Graphics ▸ Skanlite or run

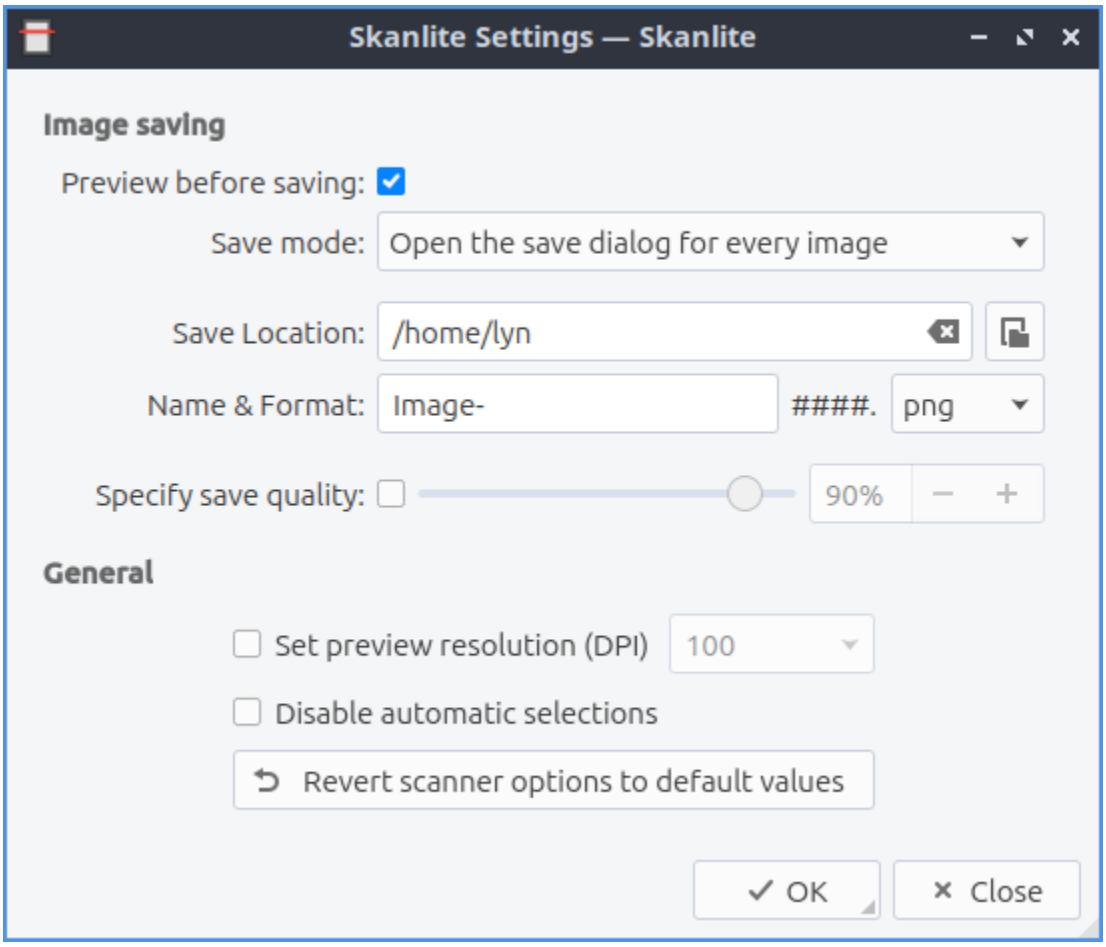
```
skanlite
```

from the command line. The icon for Skanlite looks like a scanner bed with a bar of light coming across as if doing a scan.

Customizing

To customize your settings for Skanlite press the Configure button. To choose where to save your scans enter the path in the Save Location field or press the button to the right to open a file picker. To ask what to save what you are scanning change the Save mode menu Open the save dialog for every image. To ask for each scan in the Save Mode menu select Open the save dialog for first image only selection. To choose the default save name and format enter in the Name & Format filed with a drop down menu for what filetype to save your scans. To choose what quality to save your quality check the Specify save quality checkbox and select the quality in the field to the right. Then drag the slider or percentage to change the quality.

To change the Dots per inch resolution when previewing check the Set preview resolution checkbox and then change field to the right side. To not automatically crop the selection check the Disable automatic selections checkbox. To get the scanner back to its default values press the Revert scanner options to default values.



2.2.4 Chapter 2.4 Accessories

This chapter documents accessories on your system.

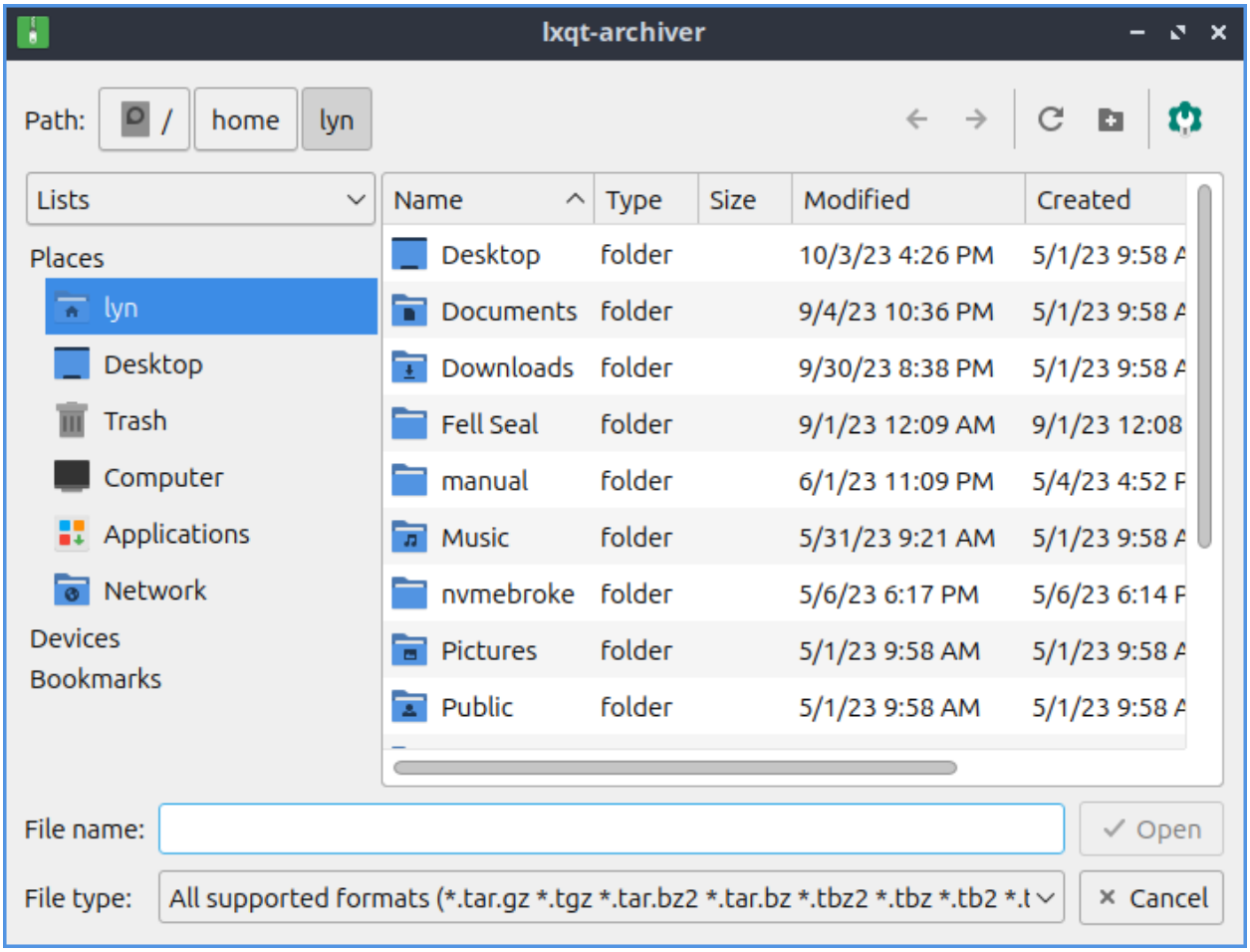
Chapter 2.4.1 LXQt File Archiver

LXQt File Archiver is the default program for dealing with archives like tar or zip files in Lubuntu.

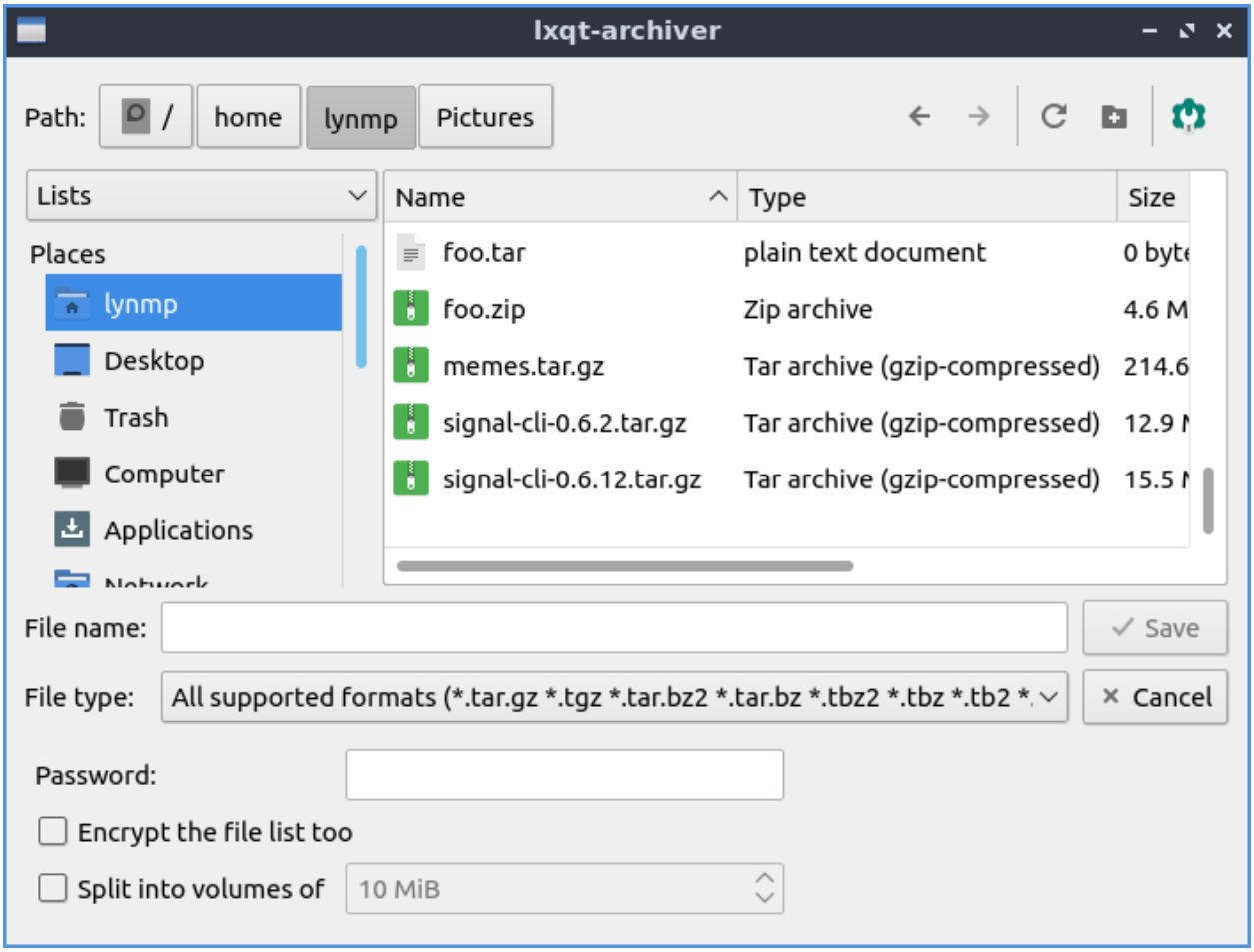
Usage

To open an archive file File ▸ Open or press `Control+O`. Once you have an archive opened you should see many lists of files under File name. To open a file double click on that file to open it or right click View Selected Items. To switch to a different folder in an archive double click the on the folder under the File name. To extract all of the file to copy them into a folder on your filesystem File ▸ Extract or press the Extract button which looks like a box with a with an upward pointing arrow. Then a dialog will open to show you where to save the extracted files navigate to thee desired path and press Open. To extract just one file right click on the

file and select Extract. To Delete an unwanted file from an archive right click on it and select Delete or select it and press `Delete`. To view properties of an archive press `Alt+ Enter` or File ▸ Properties. To stop LXQt File Archiver from doing something press `Escape`, press the octagonal or stop sign shaped button, or View ▸ Stop.

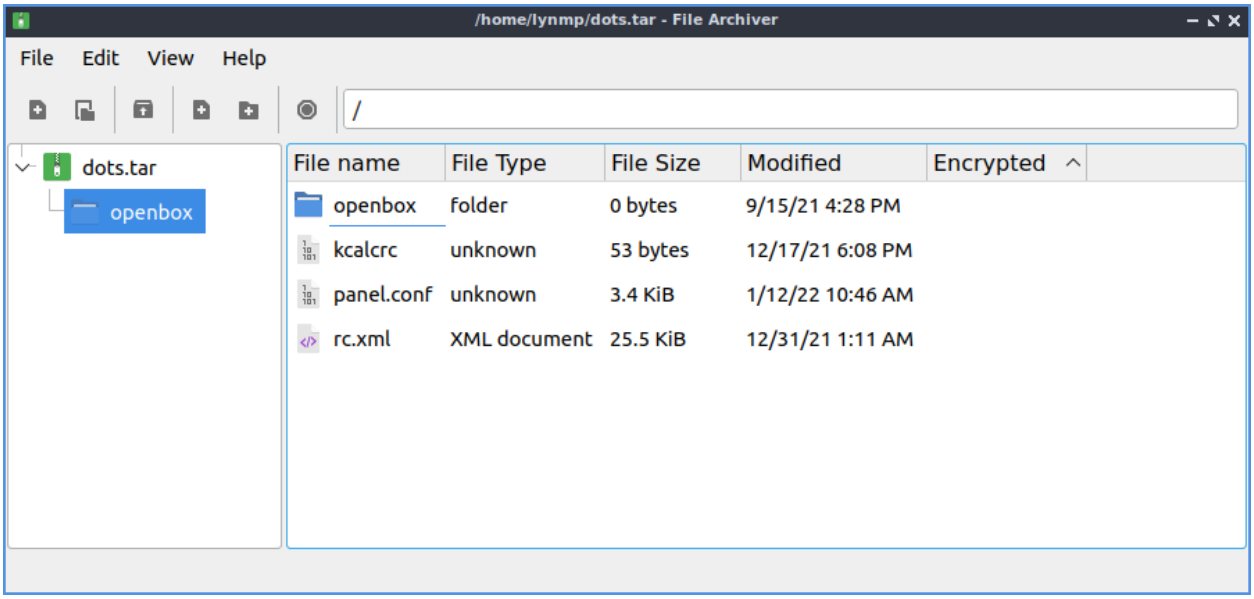


To create a new archive press File ▸ New or press `Control+N` and a dialog to create a file will be created. To choose what to name the file type the name in the File name field. To choose a password for your archive type in the Password field. Then to make the archive press Save. To add a file to the archive Edit ▸ Add Files or press the piece of paper button with a + on it. To select multiple files hold `Control` and left click to select multiple files. To select which file to add navigate to it and press the Open button. To add an entire folder of files Edit ▸ Add Folder or press the Folder button with + and select the folder you want and then press Open. To add a password to an existing archive Edit ▸ Password. To show what password you currently have typed check the Show password checkbox. To also have the file list encrypted check the Encrypt the file list too checkbox. To split the archive into multiple different volumes check the Split into volumes of and select the size of volumes in the filed to the right.



To navigate to a folder inside of an archive double click on it in the center of the window or double click on the left side pane. To move back up in a directory double click on the folder ... To select all files press `Control + A` or Edit ▸ Select All.

To reload the view of the archive press `F5` or View ▸ Reload. To view the whole directory tree press `Control+ Shift + E` or View ▸ Expand. To view just the top level of directory tree press `Control + Shift + C` or View ▸ Collapse. To search for files press `Control +F` or View ▸ Filter. Type what you want to search for in the textbox at the bottom. To clear search press the rightward pointing arrow with an x in it. To hide searching press `Control+F` or View ▸ Filter again.



To toggle showing the toolbar in LXQt File Archiver View ▸ Toolbar. To Toggle showing the Statusbar at the bottom View ▸ Statusbar. To toggle showing the directory tree on the left View ▸ Directory Tree. To change how big icons and text are select the size View ▸ Icon Size.

To close LXQt File Archiver press `Control+Q`.

Version

Lubuntu ships with version 1.4.0 of LXQt File Archiver.

How To Launch

To launch LXQt File Archiver Accessories ▸ LXQt File Archiver or run

```
lxqt-archiver
```

from the command line.

Chapter 2.4.2 FeatherPad

FeatherPad is Lubuntu's default lightweight text editor.

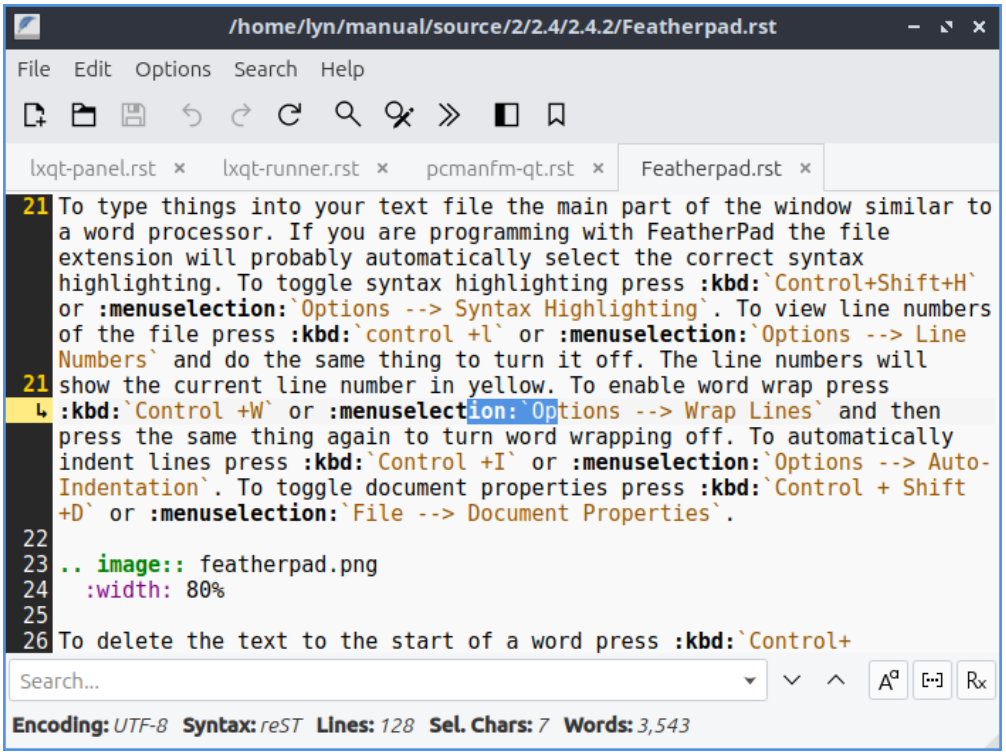
It supports:

- Tabs
- Syntax highlighting
- Autoindent
- Autobracket
- Line numbers
- Search with find/replace
- Undo and redo
- Spellcheck

Usage

To open a new file press the button that looks like a piece of paper with a plus sign, press `Control+N`, or File ▸ New. If you wish to open a text file press the button that looks like a folder, File ▸ Open, or press `control + o`. To open your recently modified files File ▸ Recently modified. To save your file after typing in the main part of the window press the button that looks like a floppy disk, File ▸ Save, or press `control +s`. To save a file with a different file name press `Control+Shift+S` or File ▸ Save As. To show your To reload a file if something else has changed that file in FeatherPad press the arrow that loops back on itself to reload the page, `Control +Shift + R`, the button that looks like a browser refresh button, or File ▸ Reload. If you have unsaved changes to a file an * will show in the tab bar if you have unsaved changes.

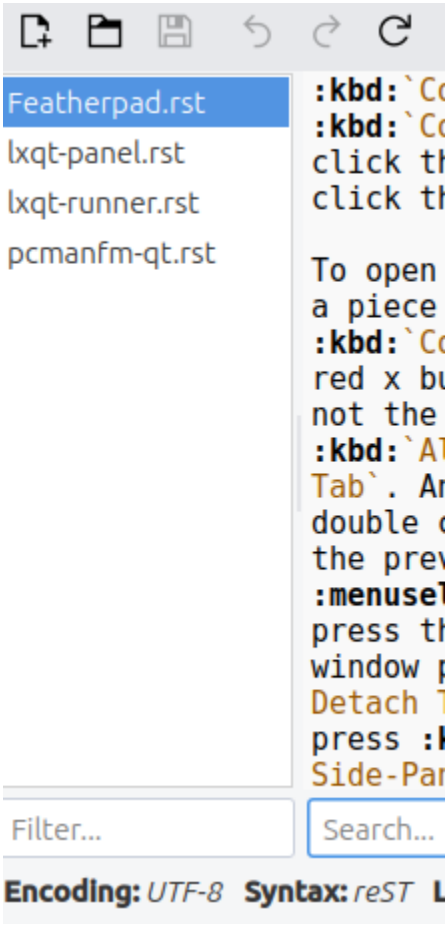
To type things into your text file the main part of the window similar to a word processor. If you are programming with FeatherPad the file extension will probably automatically select the correct syntax highlighting. To toggle syntax highlighting press `Control+Shift+H` or Options ▸ Syntax Highlighting. To view line numbers of the file press `control +l` or Options ▸ Line Numbers and do the same thing to turn it off. The line numbers will show the current line number in yellow. To enable word wrap press `Control +W` or Options ▸ Wrap Lines and then press the same thing again to turn word wrapping off. To automatically indent lines press `Control +I` or Options ▸ Auto-Indentation. To toggle document properties press `Control + Shift +D` or File ▸ Document Properties.



To delete the text to the start of a word press `Control+ Backspace`. To delete to the end of a word press `Control + Delete`. To delete to the end of the line press `Control+ K`. To move a line up press `Control+ Shift + Up`. To move a line down press `Control Shift + Down`. To select one word double click the left mouse button. To select a whole line triple click the left mouse button.

To open a new tab and empty text file press the button with a piece of paper with a plus symbol on it, or press `Control + N`. If you wish to close a tab press the x button or middle click the

tab name. To switch between tabs left click on the tab is not the close button. To switch to the next tab press `Alt + Right arrow` or File ▸ Next Tab. Another way to open a new document in a new tab double click to the right of all open tabs. To switch to the previous tab press `Alt + Left arrow` or File ▸ Previous Tab. To close a tab press the X button. To move a tab into a new window press `Control + T` or File ▸ Detach Tab. To open a side pane that replaces the tab bar press `Control +Alt +P` or File ▸ Side-Pane. To search through all of your tabs type in Filter. If have so many tabs they don't all fit in the window press the right and left arrows on the tab bar to move the tab bar that way or use the mousewheel to move the visible tabs in the tab bar. To focus on the side pane press `Control + Escape`. To move to the last text file you had visited press `F1` or File ▸ Last Active Tab. To change to your last tab press `Alt+ Up arrow` or File ▸ Last Tab. To change to your first tab press `Alt+ Down arrow` or File ▸ First Tab.

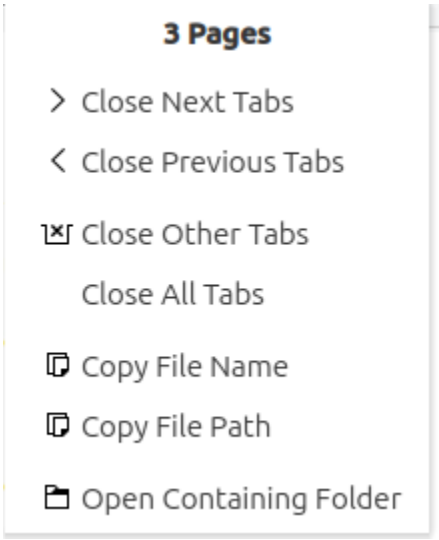


If you have multiple copies of the same file open in FeatherPad it will be open read only and shown in yellow. If you want to edit the file even though you have it open you will need to press `Control+Shift+E`, Edit ▸ Edit, or press the button that looks like a pencil to actually edit the file. You should be careful as the file may not have the contents you expect when editing it in two tabs or editors.

To make text in FeatherPad bigger press `Control+ +` or hold `Control` and move the mouse-wheel up. To make text in FeatherPad smaller press `Control+ -` or hold `Control` and move the mousewheel down. To reset the zoom press `Control+ 0`.

To see how many tabs you have open right click on a tab and then will show :menuselection:` x pages` on the menu. If you want to close all tabs to the left right click on the tab bar Close Previous Tabs. To close all tabs to the right right click on the tab bar Close Next Tabs. To only

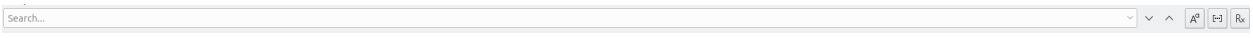
leave open the tab you right clicked on right click and select Close Other Tabs. To copy the file name right click on the tab bar and select Copy File Name. To copy the path to the file you have open right click on the tab bar and select Copy File Path. To reorder your tabs left click and drag the tab to where you want it. To open the folder the file is in a fire manager right click and select Open Containing Folder.



If you make a mistake and want to undo it press `control + z`, right click Undo, Edit ▸ Undo, or press the button that looks like a curved arrow pointing towards the left. To redo a change you have undone press the button with a curved arrow pointing towards the right, right click Redo, Edit ▸ Redo, or press `Control +Shift +Z`. To input a number of spaces equal to a tab press `Control +Tab`.

To select all text in the text file press `Control +A`, right click Select All, or Edit ▸ Select All. To copy text from FeatherPad press `Control +C`, right click Copy, or Edit ▸ Copy. To paste text press `Control+ V`, right click Paste or Edit ▸ Paste. To Cut text press `Control+X`, right click Cut, or Edit ▸ Cut. If you have text selected you can delete it by pressing `Delete` or Edit ▸ Delete. To paste in the date and time press `Control + Shift +V` or Edit ▸ Paste Date and Time. To go to the end of the current line in the editor press the `End` key. To move to the start of the current line press the `Home` key. To convert tabs to spaces Edit ▸ Tabs to spaces or right click and select Tabs to spaces.

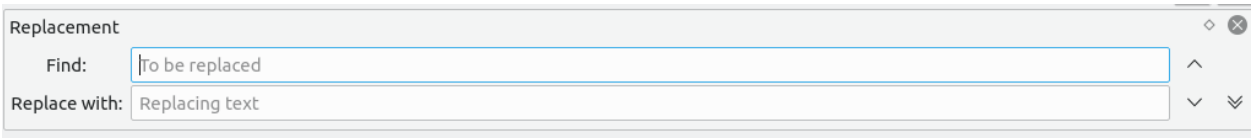
To search your text file press `Control + f`, the magnifying glass button, or Search ▸ Find from the menu. Then in the bar on the bottom search for the text you want. Press the down arrow to move to the next result and the up arrow to move for the previous result in the text file. To not make the search case sensitive press the Aa button or press `F5`. To only match whole words press the … button or press `F6`. To use a regular express press the Rx button or press `F7`. To make the search not case sensitive, whole word, or use a regular expression press the same button to turn that off.



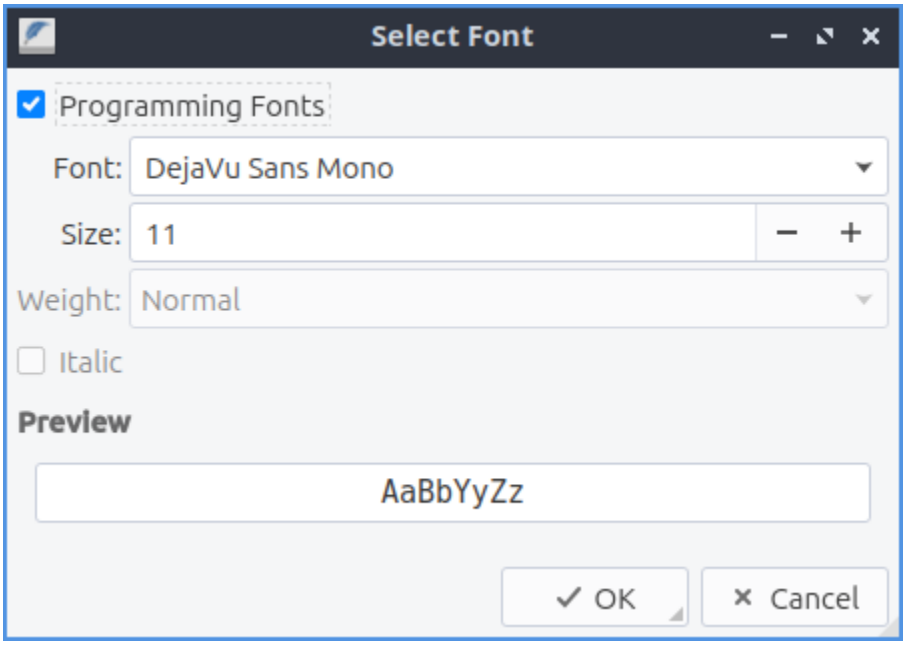
To jump to a particular line in a file press `control +j` or Search ▸ Jump to or the button that looks like >>. To select the text you jump to press the Select Text button. To jump to a particular line type the line number in the Go to line: field.

To find and replace text press `control +r`, the button with a magnifying glass and a pencil, or Search ▸ Replace. Type the text you want to Find in the find field and type what you want to put in with the Replace with field and then press enter to finish the finding and replacing

through the whole file. To replace the next instance press `f8` or the downward arrow. To replace the previous instance press `F9` or the upward pointing arrow. To replace all press `F10` or the double pointed arrow button. To close find and replace press `Control +r` again or press the x button.



To change what font you want select Options ▸ Font to change your font sizes. To choose a font that is not fixed width uncheck the Programming Fonts checkbox. To change the font use the Font field. To change font size change the Size field. To change the font weight use the Weight drop down menu. To make the font italic check the Italic checkbox. To view a sample of your font Preview and will preview your text.



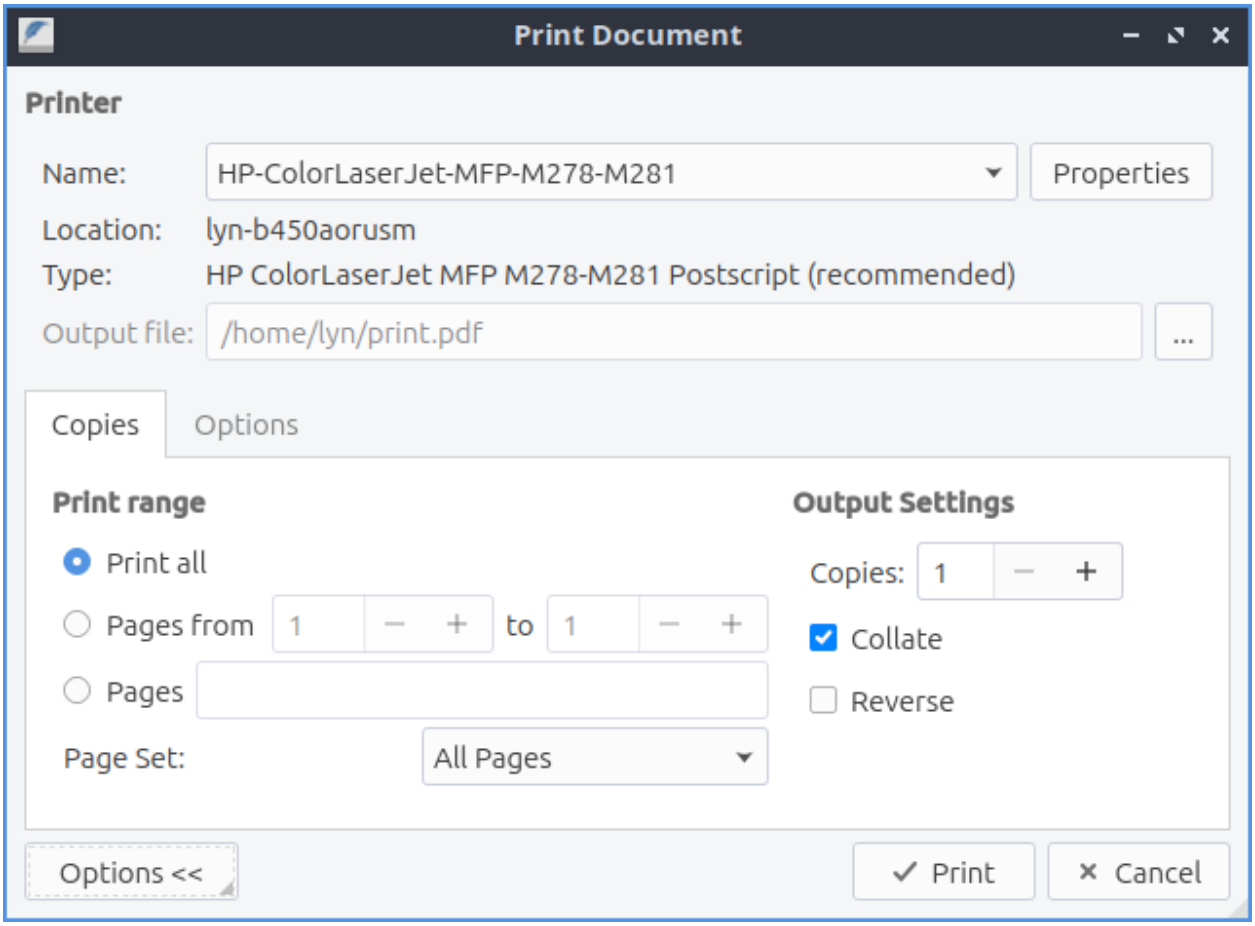
To save a file with a different encoding use the Options ▸ Encoding submenu. To save with the current encoding File ▸ Save with Encoding.

At the bottom of the window of FeatherPad the Encoding shows what encoding your file will be saved with. If FeatherPad is highlighting a syntax you can see what it is with Syntax. To see how many lines the text file has read the Lines field at the bottom. To view how many characters you currently have selected view Sel. Chars at the bottom. To view how many words are in your text file view Words. If this is not a number press the refresh icon to count how many words.

To make the text all lowercase first select it with the mouse press then `Control + Shift +L`, To Lower Case, or Edit ▸ To Lowercase. To make the text all uppercase select it first then press `Control + Shift +U`, right click To Uppercase, or Edit ▸ To Uppercase. To capitalize the first letter of each word select the text and Edit ▸ To Start Case or right click :menuselection:` To Start Case`. To alphabetize your lines first select it then Edit ▸ Sort Lines. To sort the opposite way first select the lines then Edit ▸ Sort Lines Reversely.

To print a text File ▸ Print or press `control + p`. To change which printer you use have use the Name field. To get more options for printing press the Options button. To change how many copies to print change the number in the Copies field. To print on a certain range of pages use

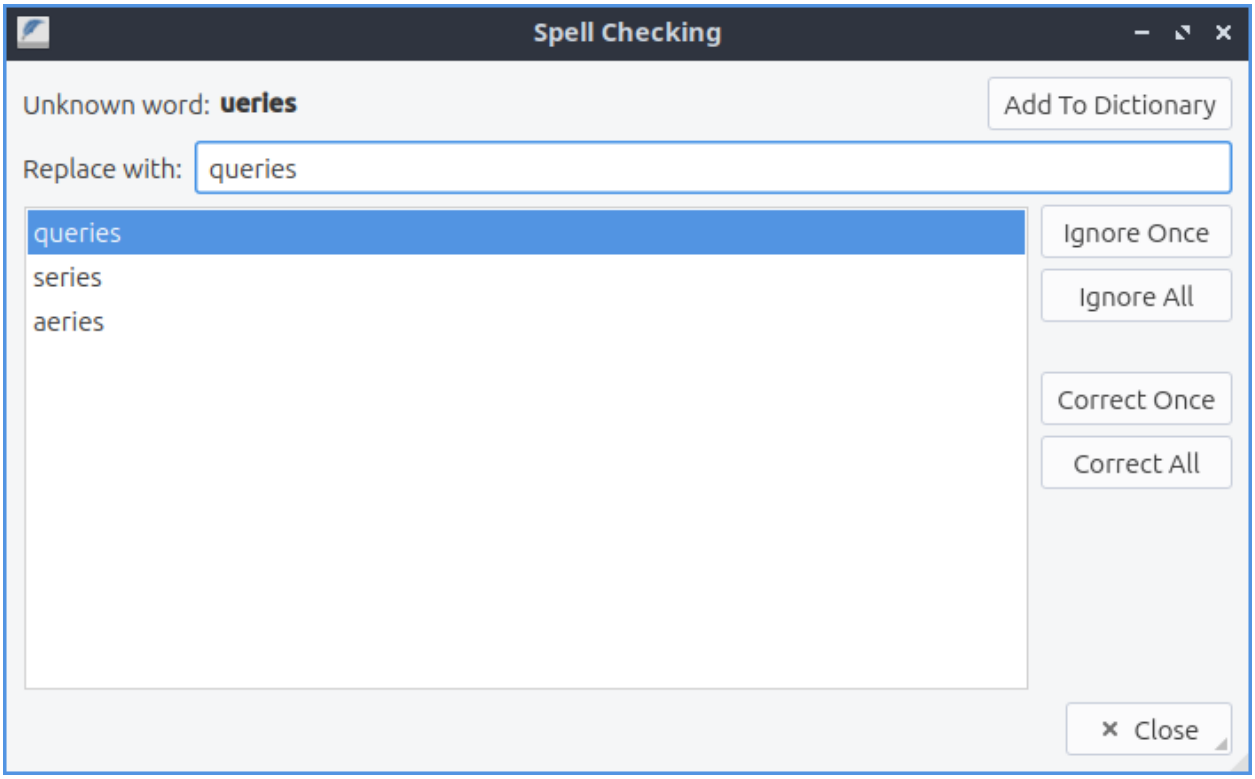
the Pages From field to choose a range of pages. To get to even more printer options press the Properties button. To collate the printed pages check the Collate checkbox. To reverse the order pages are printed check the Reverse checkbox.



To run an executable script press `Control+E`. To stop running the executable you ran press press `Control + Alt +E`. To quit FeatherPad press `Control+Q`.

Spellcheck

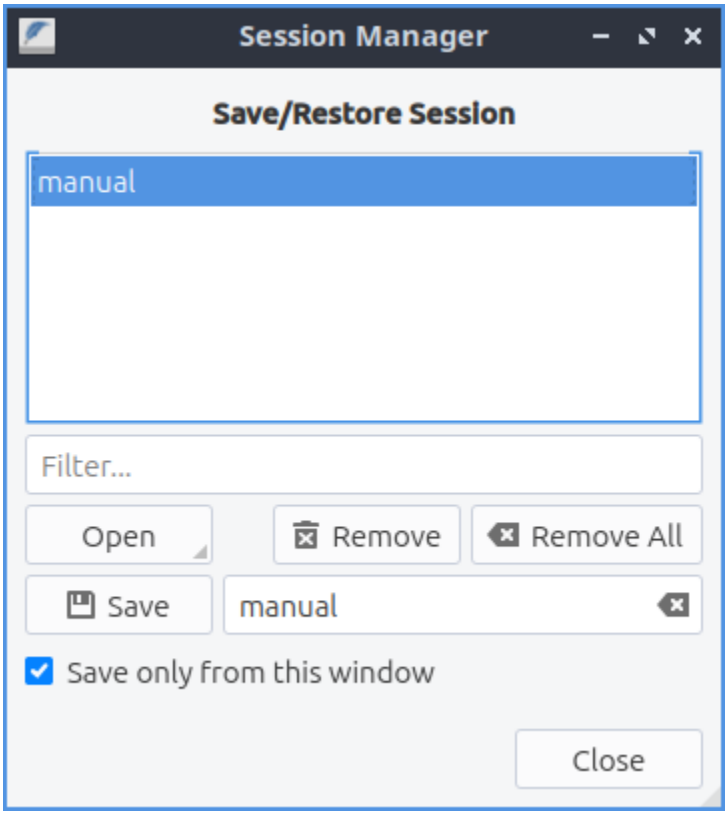
To open a spell check window press `F2` or Edit ▸ Check Spelling. If the spell check does not find a what you typed that spellcheck does not recognize will be shown from Unknown word followed by what is typed. If this is correct press the Add To Dictionary button to never have to deal with spellcheck marking this wrong again. To see what is wanted as a replacement for a typo see Replace with for the first suggestion and beneath this is a list of things to replace with. To choose a different suggestion left click on the suggestion to switch to it. To correct this typo just once press the Correct Once button. To correct this spell check every single time in your file press the Correct All button. To not change what you have typed in just this case press the Ignore Once button. To ignore what you have typed press in the entire file press the Ignore All button. If you do not have a spelling error on the bottom will appear a red bar saying No misspelling from text cursor.



To view what words you have added to your dictionary Edit ▸ User Dictionary. You can enter many words in here if you wish to add many new words to your custom dictionary all at once or move another dictionary file to this one to migrate to a new install. To get spellcheck to work the first time you will need to select a language to run on Hunspell dictionary path on the Text tab of FeatherPad preferences.

Saving Sessions

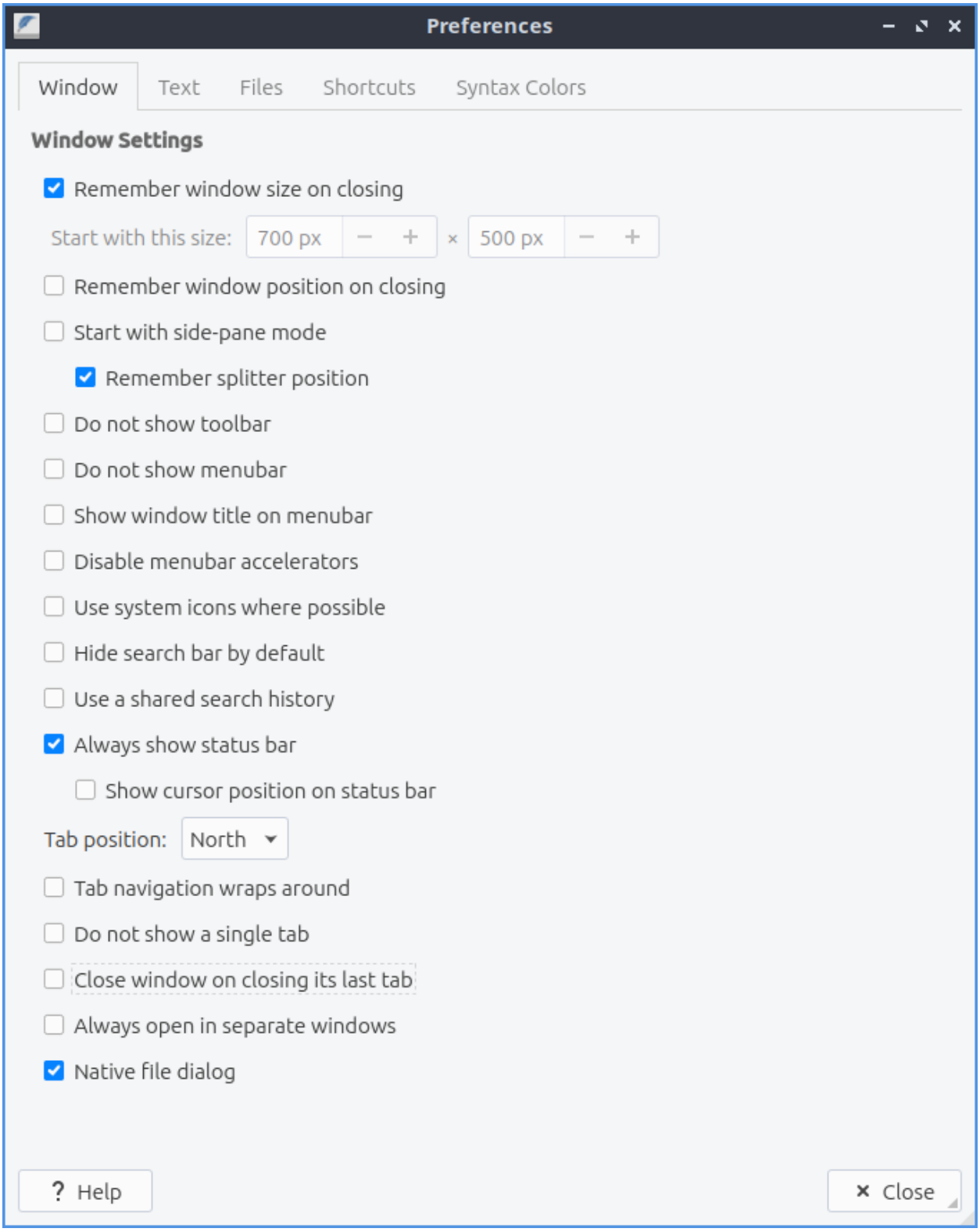
To open all the files if you work on several together in a session press `Control+M`, press the rectangle button with a triangle out of the bottom, or File ▸ Save/Restore Session and a dialog will appear. To save your first session type a name to remember this and then press the Save button. To open your saved session click the name of the session on the top of the dialog and then press Open. To remove a saved session press the Remove button. To remove all saved session press the Remove All button. To search for a particular session type in the Filter section. To include saving tabs from other windows in your session uncheck the Save only in this window checkbox.



Customizing

To view the preferences for FeatherPad press `control +Shift +P` or Options ▸ Preferences. To change settings on how FeatherPad handles the window use the Window tab. To have FeatherPad be the same size as when you last closed it check the Remember window size on Closing checkbox. If you choose for FeatherPad not to remember size you can change Start with this size field for height and width to start FeatherPad. To have FeatherPad appear on the same position it was when FeatherPad was closed check the Remember window position on closing checkbox. To start with the side-pane on FeatherPad check the Start with side-pane mode. To hide the toolbar you can press the Do not show toolbar checkbox. To not show the menubar by default check the Do not show menubar checkbox. To show the window title on the menubar check the Show window title on menubar checkbox. To turn of keyboard shortcuts with the `Alt` keys for navigating menus check the Disable menubar accelerators checkbox. To use your system icons when possible check the Use system icons when possible checkbox. To have the searchbar hidden by default check the Hide search bar by default checkbox. To have the same search history across all tabs use the Use a shared search history checkbox. To show where your cursor is on the statusbar at the bottom check the Show cursor position on status bar.

The Tab position menu moves where the tab around on the screen. To hide the tabbar with only one tab check the Do not show a single tab checkbox. To have the window close after closing the last tab check the Close window on closing its last tab. To have FeatherPad open a new window when you are on a different virtual desktop check the Always open in separate windows checkbox. The checkbox Native file dialog uses the systems file dialog to integrate with the system.

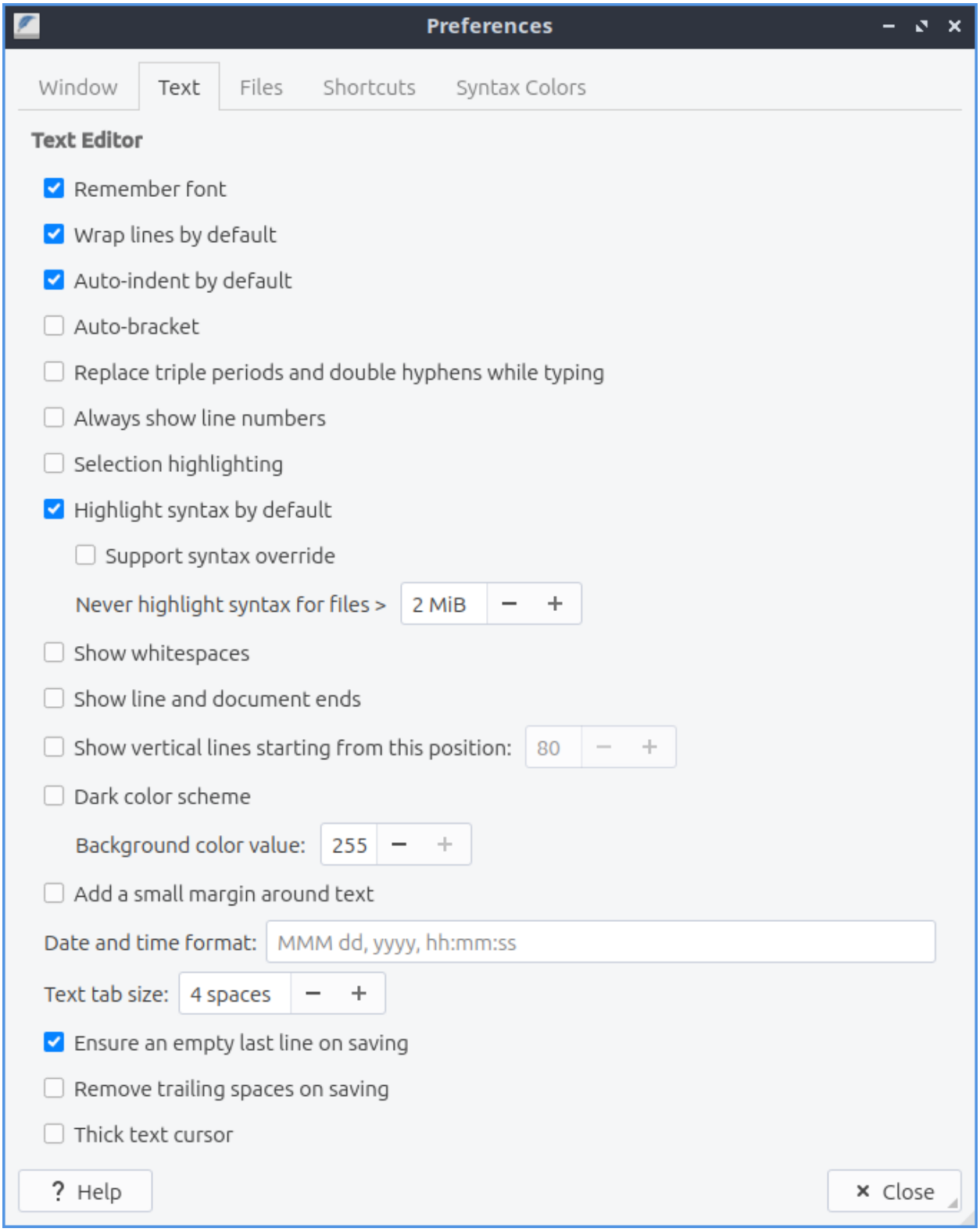


To change preferences on how text is displayed choose the Text Tab. To have FeatherPad remember what font you want press the Remember Font checkbox.To have your FeatherPad wrap lines if your line is too long by default check the Wrap lines by default checkbox. To have FeatherPad automatically indent new lines by default check the Auto-indent by default

checkbox. To have FeatherPad automatically insert closing brackets check the Auto-bracket checkbox. To have FeatherPad replace triple periods and double hyphens with other characters representing the same thing check the Replace triple periods and double hyphens while typing checkbox. The checkbox for Always show line numbers always shows line numbers.

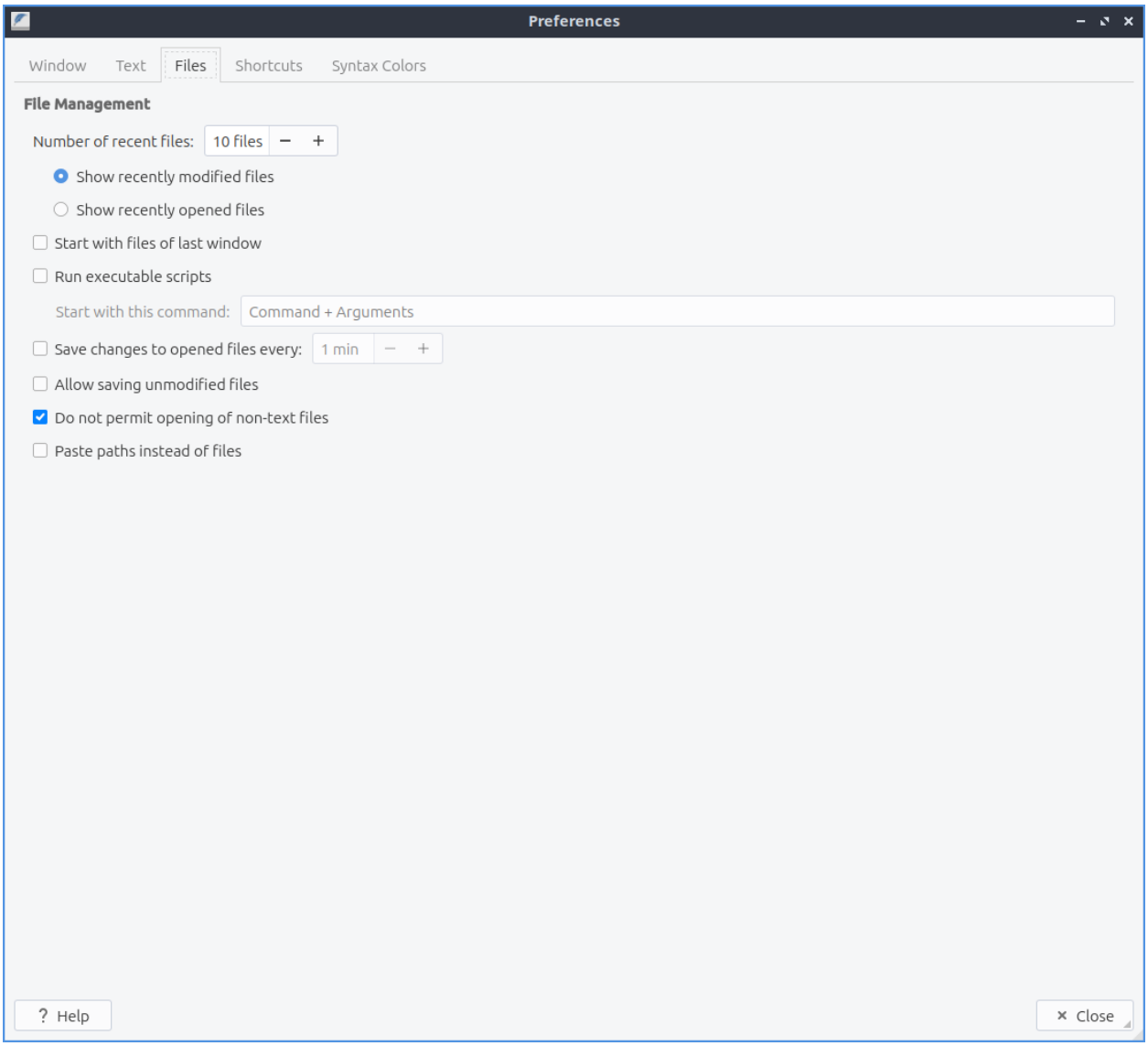
When you select text if you want it to be highlighted check the Selection highlighting checkbox. If you do not want FeatherPad to highlight syntax by default uncheck the Highlight syntax by default checkbox. If you want to change the be able to change the syntax highlight check the checkbox for Support Syntax override. To have FeatherPad not highlight overly large text files change the Never highlight syntax for files > field. To have FeatherPad show a dot for whitespace check the Show whitespaces checkbox. To show formatting marks when there is a line and paragraph ends check the Also who line and document ends checkbox. To show To have a dark color scheme for FeatherPad check the Dark Color Scheme checkbox. To change exactly how dark the value of this color is change the Background color value field. After changing the dark theme settings you will need to restart FeatherPad.

To change how FeatherPad will show dates type how you want the date in the Date and time format field. The field for Text tab size is how wide to make the tab character. The checkbox for Ensure an empty last line on saving leaves a blank line whenever you save your document. The checkbox for Remove trailing spaces on Saving removes whitespace at the end of lines that is not needed. The checkbox for Thick text Cursor makes the text cursor wider so it much easier to see. To have your scrolling have inertia to keep scrolling the faster you scroll check the Inertial scrolling with mouse wheel checkbox. To change where FeatherPad looks for a dictionary for spell checking change the Hunspell dictionary path field. To start spell checking from your current text cursor check the Start spell checking from text cursor checkbox.

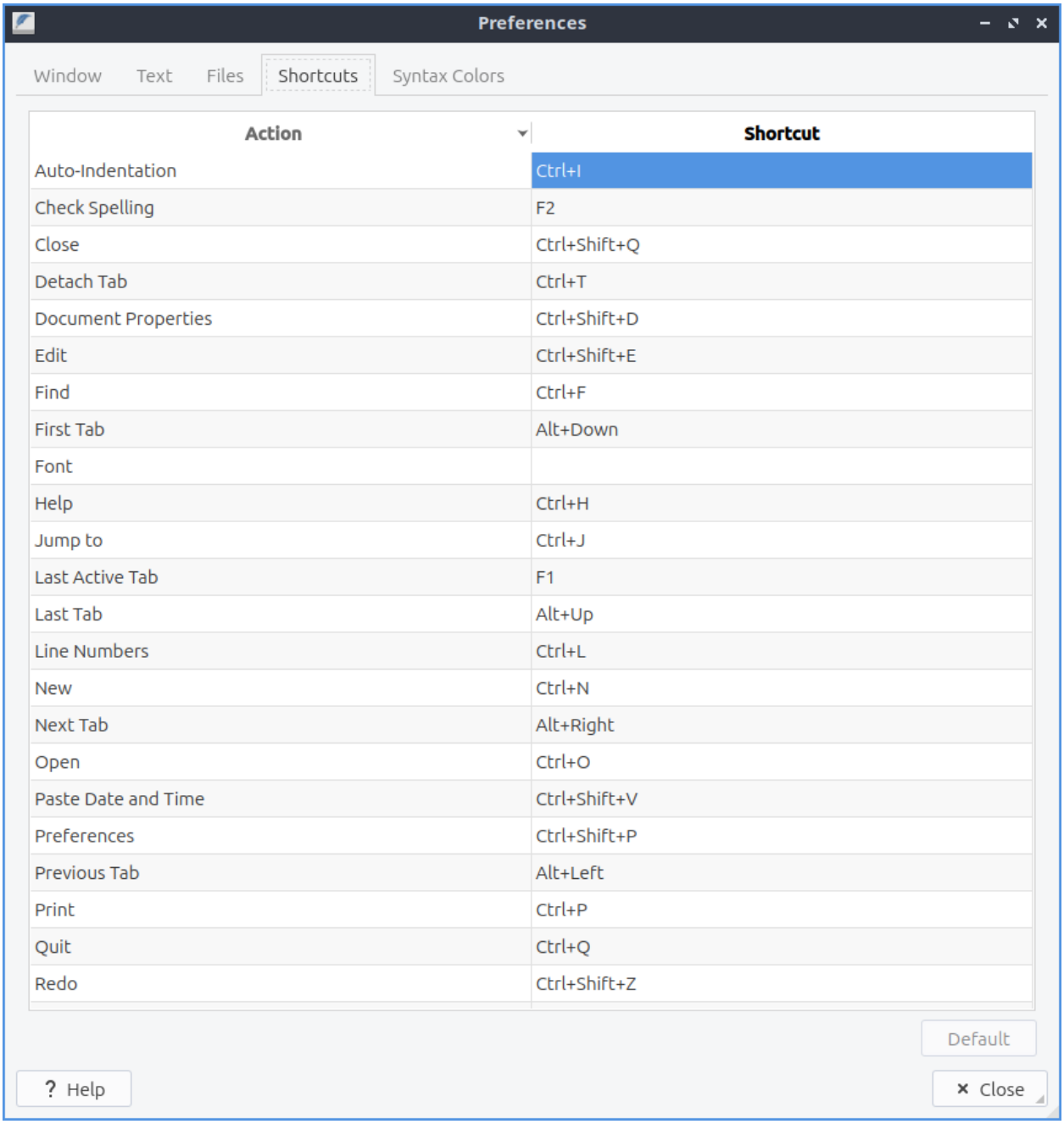


To modify changes to your files from the preferences dialog on Files tab. The Number of recent files field lets you change how many files show in recent files. The set of radio buttons for either Show recently modified files or Show recently opened files for recent files in the menu. To clear your list of recent files File ▸ Recently Modified ▸ Clear. If you want to reopen

the files you had last time the next time you open FeatherPad check the Start with files of last window. To have FeatherPad open with the files you had open last time check the Start with files of last window. If you want FeatherPad to run executable scripts check the Run executable scripts checkbox. If you want your executable commands to start with something such as an interpreter type the command in the Start with this command field. If you want to autosave files check the Save changes to files every checkbox and then enter how often you want your files to be automatically saved. If you do not want to be able to open non text files in FeatherPad check the Do not permit opening of non-text files checkbox. To paste the path of the copied files into FeatherPad instead of the file themselves check the Paste Paths instead of files checkbox.

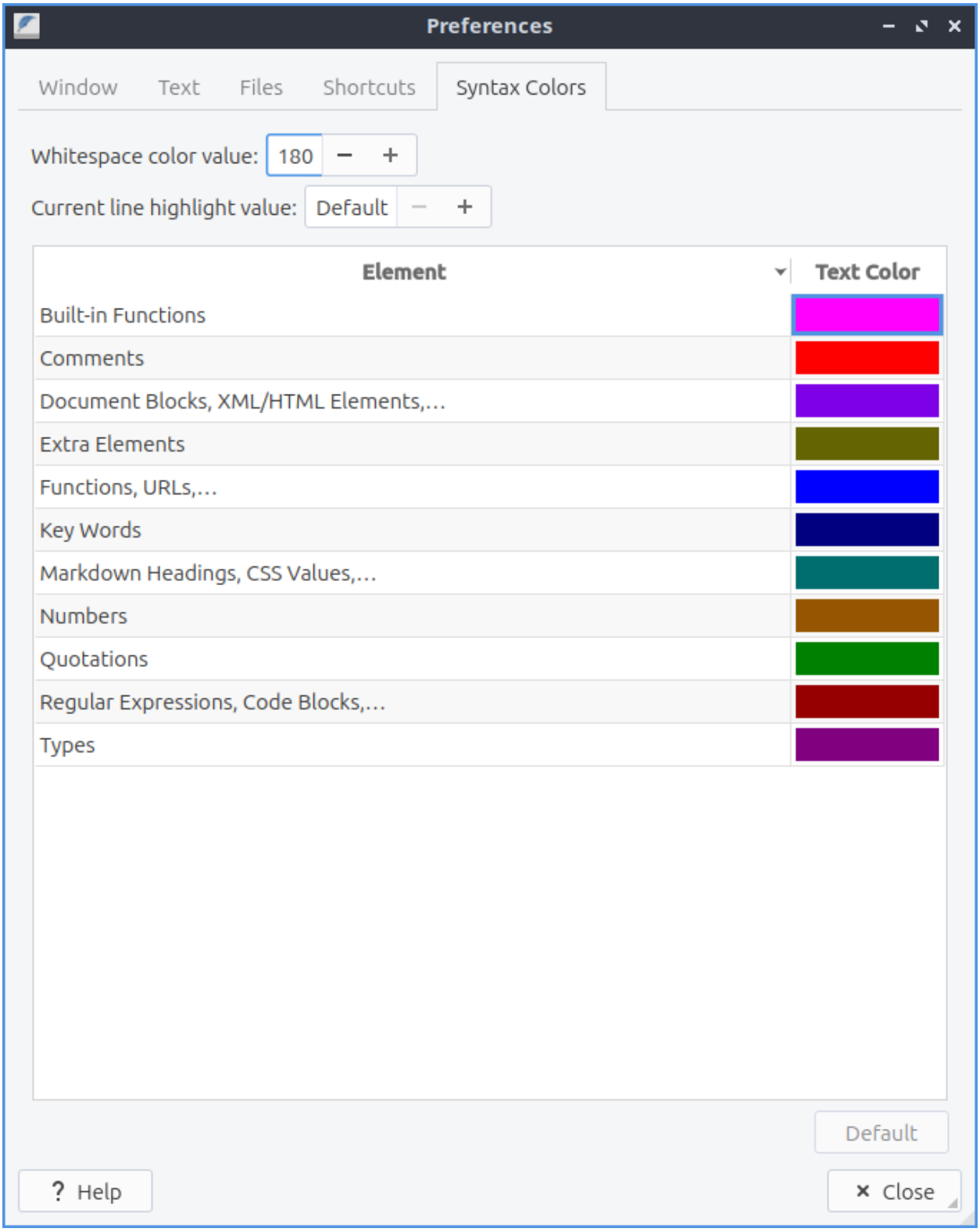


To view all keyboard shortcuts of FeatherPad switch to the Shortcuts tab. The Action column is what the shortcut does and the Shortcut column is the keyboard shortcut to change that shortcut. To change a shortcut double click on the shortcut column and press what you want the shortcut to become. If you changed a shortcut you can change it back to the default by pressing the Default button.



To change what colors you use in syntax highlighting use the Syntax Colors tab. To change the color of built in functions click the color to the right of Built-in Functions and a window to pick your color will show up. To change the color of comments in syntax press the button next to Comments and a color picker window will pop up. To change how documents HTML or XML elements appear change the press the button next to Document Blocks, XML/HTML Elements button to have a color selection window appear. To change how extra elements are colors press the button next to Extra Elements. To change the color of functions and URLs in highlighting press the button next to Functions, URLs. To change how keywords of a programming language appear press the button next to Keywords. To change the color of markdown headings and CSS values press the button next to Markdown Headings, CSS Values. To change how numbers are highlighted press the button next to Numbers. To change how quotations are highlighted press the button next to Quotations. To change how you highlight regular

expressions and code blocks press the button next to Code Blocks. To change how datatypes are highlighted press the button next to Types. To change how dark the whitespace appears in highlighting change Whitespace color value. To change how dark the currently highlighted line is change Current line highlight value. To restore syntax highlighting to default values press the Default button.


Preferences
Window
Text
Files
Shortcuts
Syntax Colors
Whitespace color value:
180
Current line highlight value:
Default
Element
Text Color
Built-in Functions
Comments
Document Blocks, XML/HTML Elements,…
Extra Elements
Functions, URLs,…
Key Words
Markdown Headings, CSS Values,…
Numbers
Quotations
Regular Expressions, Code Blocks,…
Types
Default
Help
Close

Version

Lubuntu ships with version 1.6.2 of FeatherPad.

How to Launch

To launch FeatherPad from the menu go to Accessories ▸ FeatherPad or run

```
featherpad
```

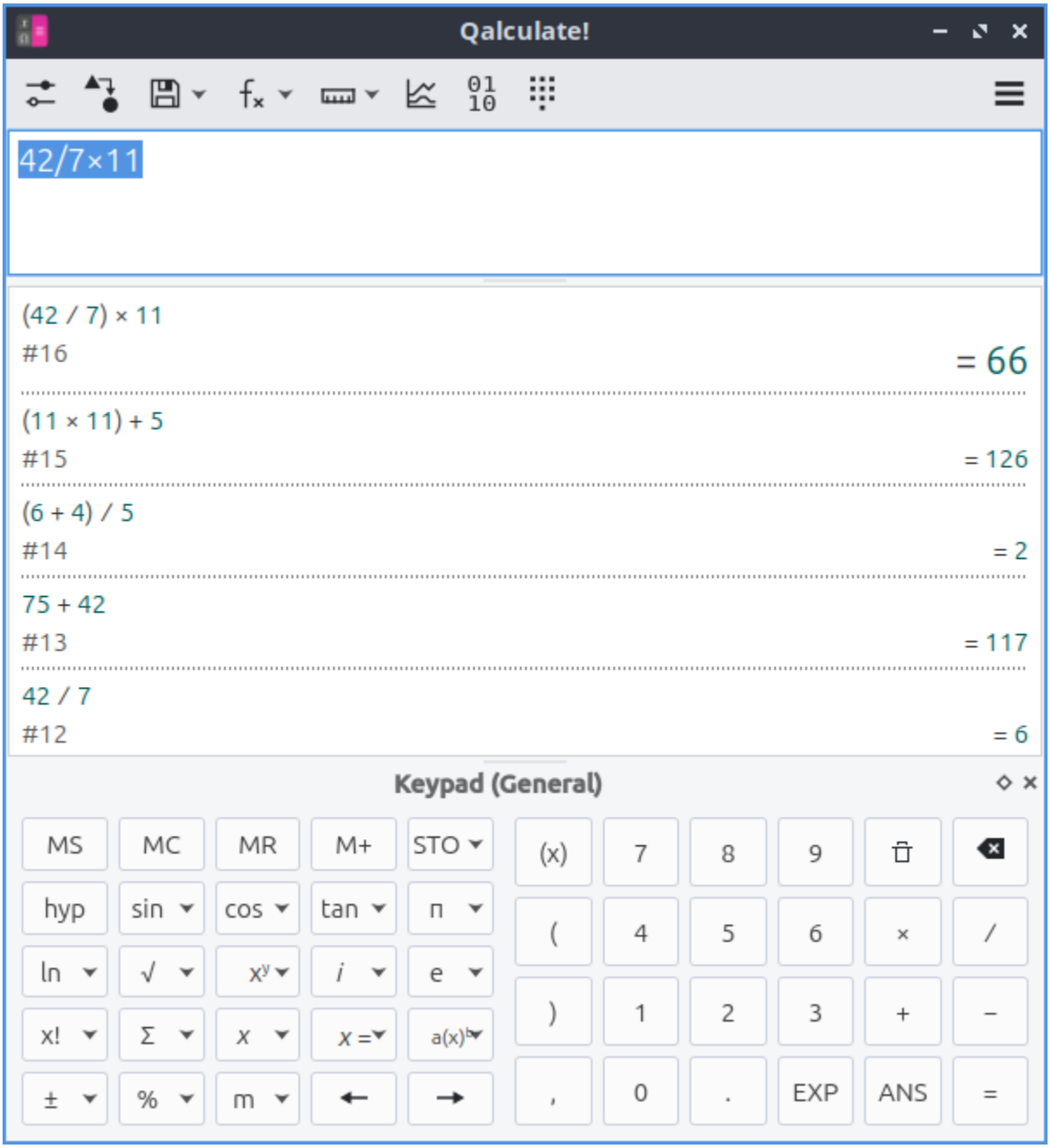
from the command line. The icon for FeatherPad looks like a blue circle for with a pencil on it.

Chapter 2.4.3 Qalculate!

Qalculate! is the default calculator shipped in Lubuntu since 25.04.

Usage

To do simple arithmetic computations type the numbers into the field just below the toolbar. To start a calculation press `enter` or press the = button. To add multiple numbers press + or click the + button. To subtract two numbers press - or click -. To multiply two numbers press * or click x. To divide two numbers press / or click the / button. To input decimals into Qalculate! type . as the decimal point or click . To input the last answer you calculated click the ANS button. To delete the last character you typed press `backspace` or click the trash can button. To clear all you have inputted left click the Leftward pointing arrow with an x button or press `Escape`. To start doing an operation first use a parenthesis to do an operation first (or click (. To close the operation you want to do first in order of operations use a close parenthesis so press) or left click on). To have both an open and close parentheses click the (x) button. If you have an error in your syntax an orange triangle will show up. To get more information on what your error is mouseover the orange triangle. To get more information on a button you can also mouseover that button.



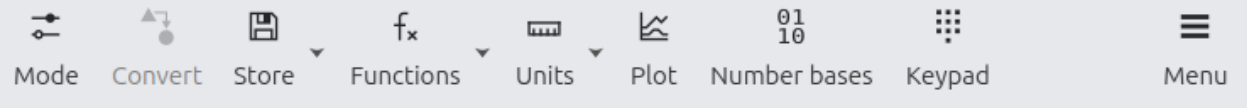
Below where you type in calculations is a history of your previous calculations. To go back in your history press the `Down arrow` key. To go one step forward in your history press the `Up arrow` key. To move the cursor one character to the left press the `left arrow` key or left click the left arrow. To move the cursor one arrow to the right press the `right arrow` key or left click the right arrow key. To move the cursor to the end press the `End` key or right click the right arrow button. To move the cursor to the start press the `Home` key or right click the left arrow button.

To copy text from Qalculate! select the text and press `Control + C` or right click and select Copy. To cut the text from Qalculate! press `Control +X` or right click and select Cut. To past text press `Control +V` or right click and select Paste.

To store a value in calculator memory left click the MS button. To later get the same value

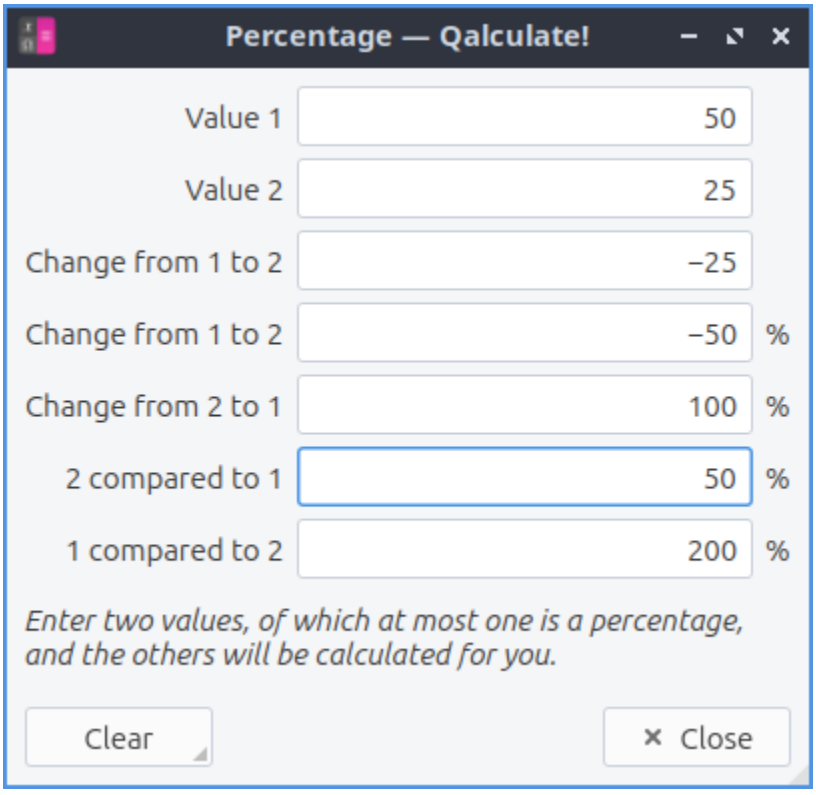
out of the calculator left click the MR button. To clear the memory stored in the calculator press the MC button.

To view only Text for the toolbar menus right click on the toolbar and select Text Only. To have text beside icons on the toolbar menus right click on the toolbar and select Text Beside Icons. To have a text underneath icons on the toolbar menus right click on the toolbar and select Text under icons. To switch back to only showing icons on the toolbar menus right click and select Icons Only. To toggle showing the toolbar right click on the toolbar and check/uncheck Show Toolbar.



To take the reminder when dividing something you can type % or left click 1 between two numbers like 9%2 to get the remainder of 9/2. You can also type % or left click % after a number as a percent of a number. To insert the number π left click on the π button. To add e the base of the natural logarithm left type e, left click EXP, or left click the e button. You also can use e a shorthand for scientific notation by typing e, left click EXP, or left clicking the e button for example:kbd:6e2 to mean 6 *10^2. To input i the square root of negative 1 the imaginary number type i or left click the i.

To bring up a percent calculator your can left click on the arrow next to % and select Percent Calculation Tool or left click on the three bars to the right and select Percent Calculation Tool. Enter the first value in the Value 1 field. Enter the second value in the Value 2 field. Then you can see below your values the changes, percent change 1 to 2 and then the percentage of each number compared to each other. If you want to clear the values you have entered left click on the Clear button.



To view dates in many different calendars left click on the three bars on the right and select Calendar Conversion. To view a periodic table left click on the three bars on the right and

select Periodic Table. To view a list of keyboard shortcuts left click on the three bars on the right and select Keyboard shortcuts.

To force a minimum number of decimal points after the result left click on the left most two sliders button and enter how many numbers after the decimal point in Min decimals. To have a maximum number after the decimal point left click on the left most Two sliders in the Max decimals field.

To test an test if two things are equal you can type = between two expressions or left click x= and then get true or false on if there is equality. To test if something is not equal long left click on x= ‣ ≠ or type in ≠ between two expressions. To test if one expression is less than the other expression type in < or long left click on x= ‣ < between two expression. To test if another expression is less than or equal type in ≤ or long left click on x= ‣ ≤ between two expressions. To test if one expression is greater than another type > or long click on x= ‣ > between two expressions. To test if one expression is greater than or equal to another type ≥ or long left click on x= ‣ ≥. Many of these get their own button on the algebra keypad which can be switched to with the menu with 10 points Keypad ‣ Algebra.

To select the general keypad left click the 10 numbers Keypad ‣ General. To switch to a programming Keypad left click the 10 numbers Keypad ‣ Programming. To switch to an Algebra keypad left click the 10 dots Keypad ‣ Algebra. To have a custom keypad left click the 10 digits Keypad ‣ Custom. To add something to your custom keypad right click on an empty button. To toggle having no keypad press `Control +K` or left click Keypad ‣ None. To hide the numberpad buttons uncheck the Keypad ‣ Always show numberpad. To just have the numberpad when not always shown select Keypad ‣ Numberpad.

To have Qalculate! solve an equation type `Solve()` or long click on x= ‣ Solve Equation.

To convert to or from roman numerals type `roman( )` and then the expression you wish to convert inside the parathesis.

Trigonometry

Qalculate! offers many different trigonometric functions. When using these functions having the correct angle unit is important to have the angle unit set correctly or else you will get the wrong answer. To set the angle unit to degrees left click the left most button with two sliders and select Degrees in which 360 degrees make one full circle. To set the angle unit to radians in which 2π radians make one full circle left click the left most button on the toolbar and select Radians. To have the angle unit set to Gradians in which 400 gradians make a full circle left the leftmost button on the toolbar and select Gradians.

To take the sine function of something left click the sin button or type `sin()`. To take the inverse sine function of something right click the sin button or type `arcsin()`. To take the cosine of something left click the cos button or type `cos()`. To take the tangent function of something left click on the tan button or type `tan()`. To take the inverse tangent right click on the tan button or type `arctan()`.

Exponents and Roots

To exponentiate a base number to a power left click x^y or type ^. To square a number right click x^y or type `sq()` around what you want to square. To raise e to a power middle click x^y or type `exp()` around what power you want to raise e to. To take the square root of something left click the √ button or insert a √ character. To take the cube root of something right click the √ button or type `cbrt()`. To take the nth root of something middle click on the √ button or type `root( , )` where the first thing is what you are taking the root of and the second is which root to take.

To take a natural logarithm left click on the ln button or type in `ln()`. To take a logarithm on base 10 right click on the ln() button or type in `log10()`. To take a logarithm with base n middle click on ln and then input your base.

Combinatorics

to take take a factorial of an integer type `x!` after it or left click the ! button. To take the number of permutations right click on the x! or type `perm()`. To take the number of combinations fo something middle click on x! or type `comb()`.

Summation/Products

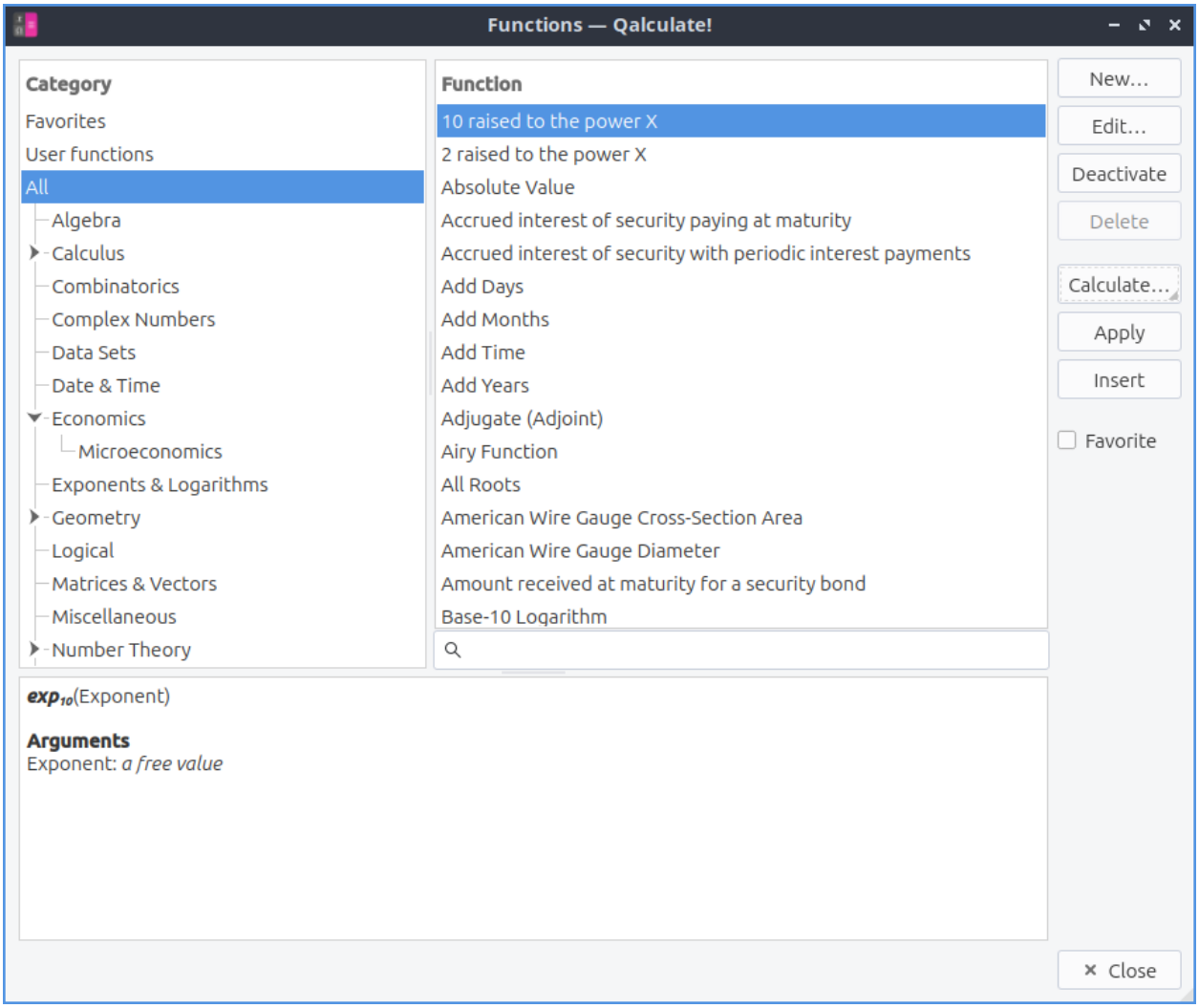
To take a sum of several numbers left click the Σ button, type `Σ()`, or type `sum()`. To take the product of several things right click the Σ button, type `Π()`, or type `product()`.

Saving Variables

To save a new variable in Qalculate! press `Control +S` or left click the floppy disk icon and a window will popup. Type a name for your variable in the Name field. The Required tab is for required fields for your variable. Type what you want your variable to be equal too in the Value field. To add additional description to your variable use the Description tab. Choose which category to put this variable in in Category. To give a descriptive name to your variable type that in Descriptive name. To toggle hiding a variable check/uncheck the Hide variable checkbox. To add more description to your variable type that in the Description field.

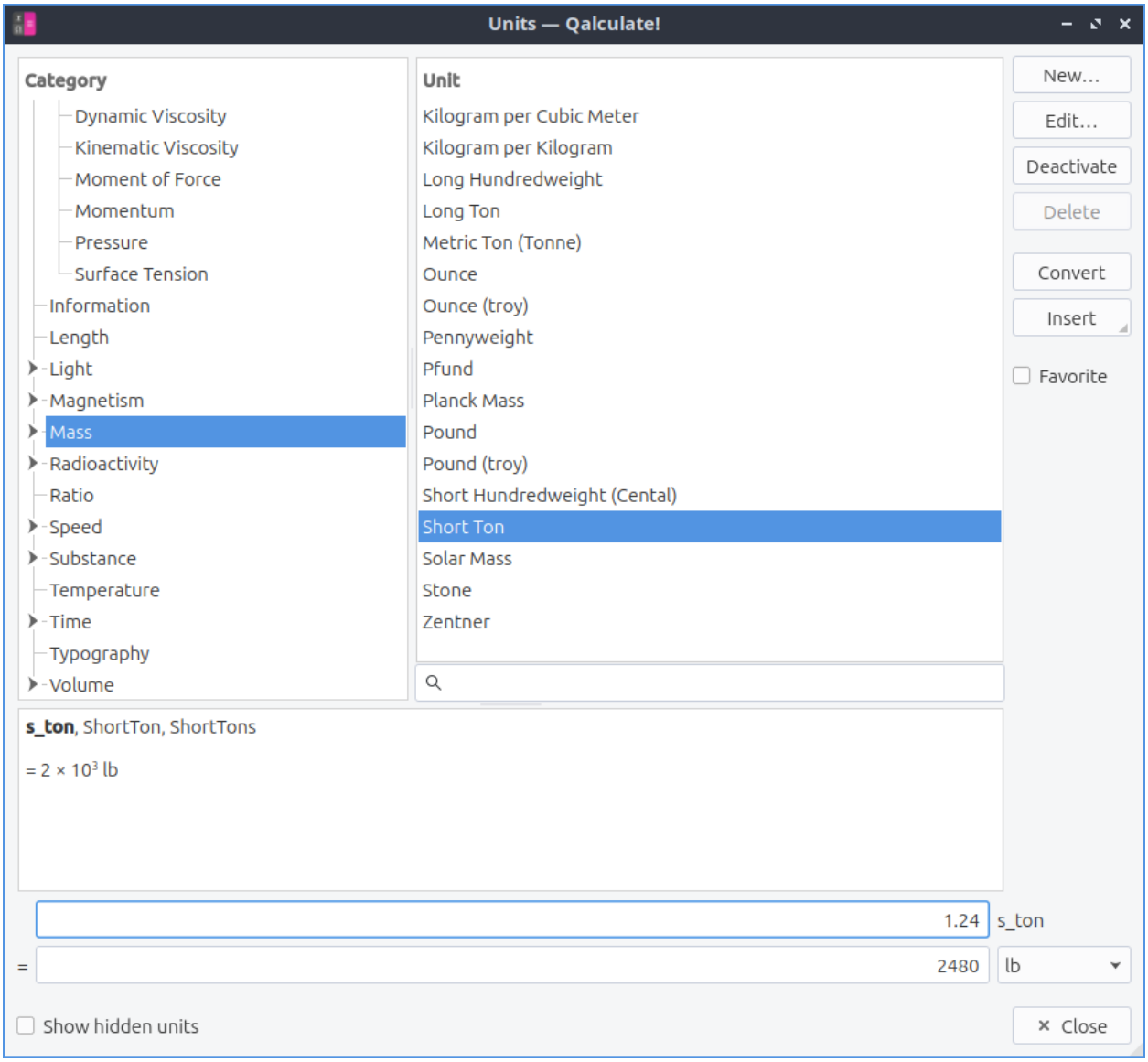
Functions

To bring up an extensive list of functions left click the fx button or press `Control + F`. On the left hand side of the window is a Category column and to choose functions from that category left click on the category name. To see a list of the actual function are under the Function column. To insert a function into the main window left click the Insert button. To calculate an answer in a popup left click the Calculate button. To search for a function type in the magnifying glass field. To save a function in your favorites check the Favorite checkbox.



Units

To have a large list of many different units you can open by pressing `control` +U or left click on the ruler button. Under the left column labeled Category and left click on a category to select that category of unit. To search for a unit type in the Magnifying glass button. To select a unit left click on it on the right column. To insert the unit left click on the Insert button. To add a unit to your favorites check the Favorite checkbox. To convert between units enter the number in the bottom of the window and then type how many units to convert from in the second from the bottom field and then select the bottom right field what to convert to will show the converted result.

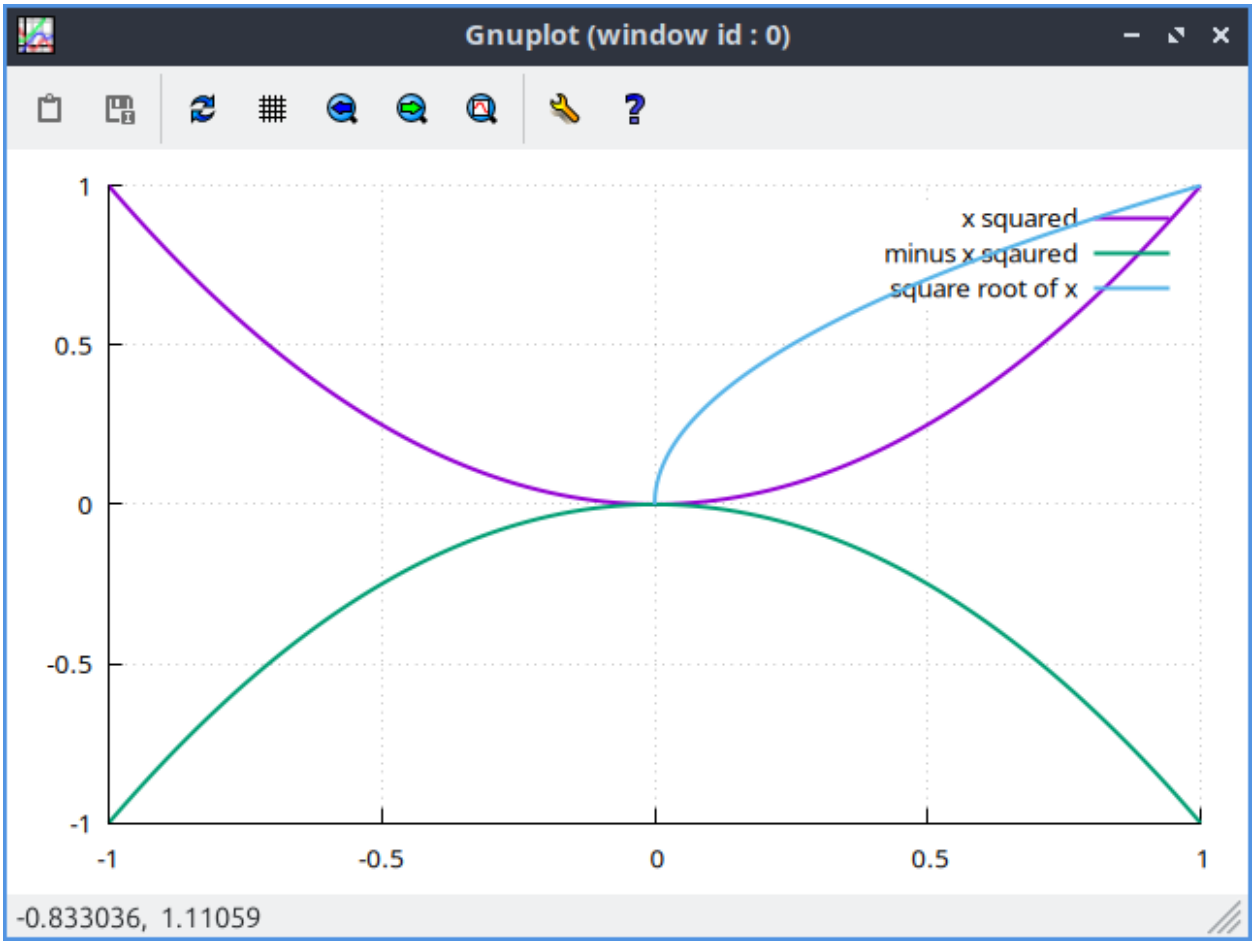


Qalculate also does many operations with fractions. To input 1/2 into something you can middle click on the 2 button. Similarly to input 1/3 middle click on 3 and for 1/4 middle click on 4 and so on. Qalculate will also simplify fractions if you type them in so if you type in 4/16 Qalculate! will reduce it to 1/4 and then also provide a decimal answer with a = sign for an exact value or an ≈ for an approximate solution if not exact. Qalculate! will also let you add, subtract, multiply, divide, or more advanced fractions with fractions and still show the result as fractions.

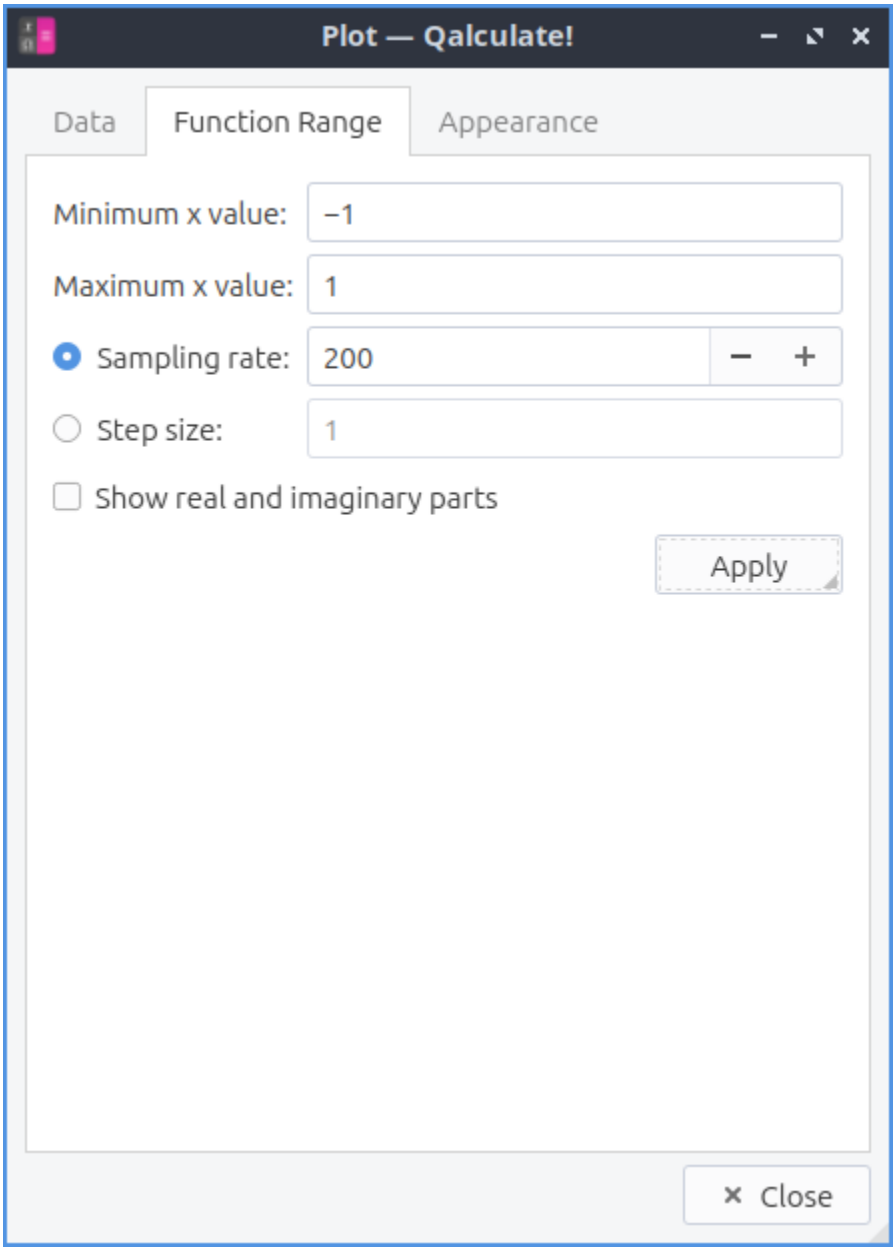
Plotting

To plot functions in Qalculate! press `Control + P` or left click on the graph button. The Data tab will have info on what you want values to plot. To give your name to a function to plot enter that in the Title field. Type what you want to plot in the Expression field. To change what each variable is called change the X variable field. To change what style to draw the plot change the Style drop down. To change how to smooth your plot use the Smoothing drop down. To add another function to be plotted left click the Add button. To have the plot redrawn with your changes left click the Apply button. To remove something you want to plot

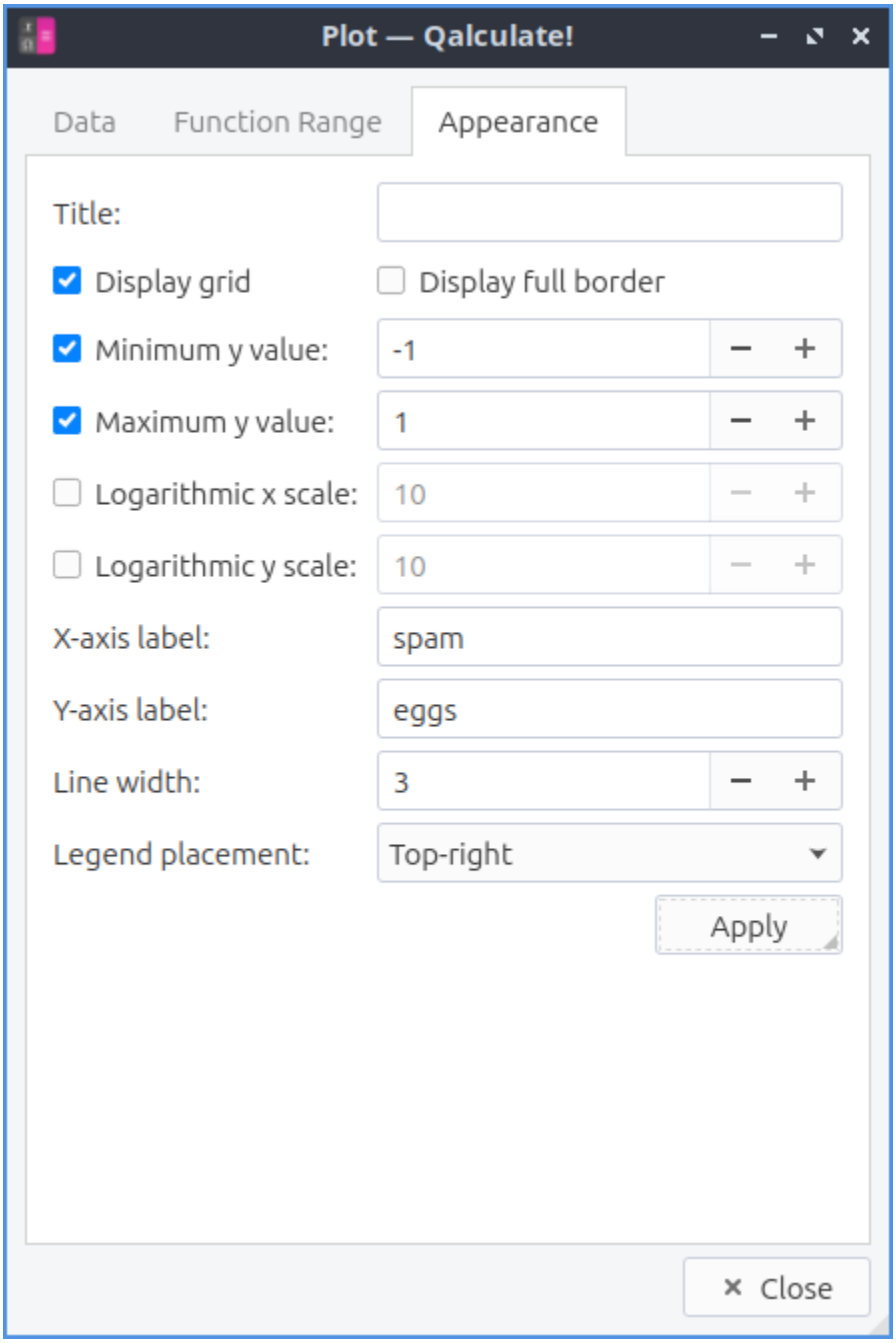
left click the Remove button. On the bottom of this window is a list of everything you have to plot. The title of what you are plotting is listed in the Title column. The formula for what you are plotting is in the Expression column.

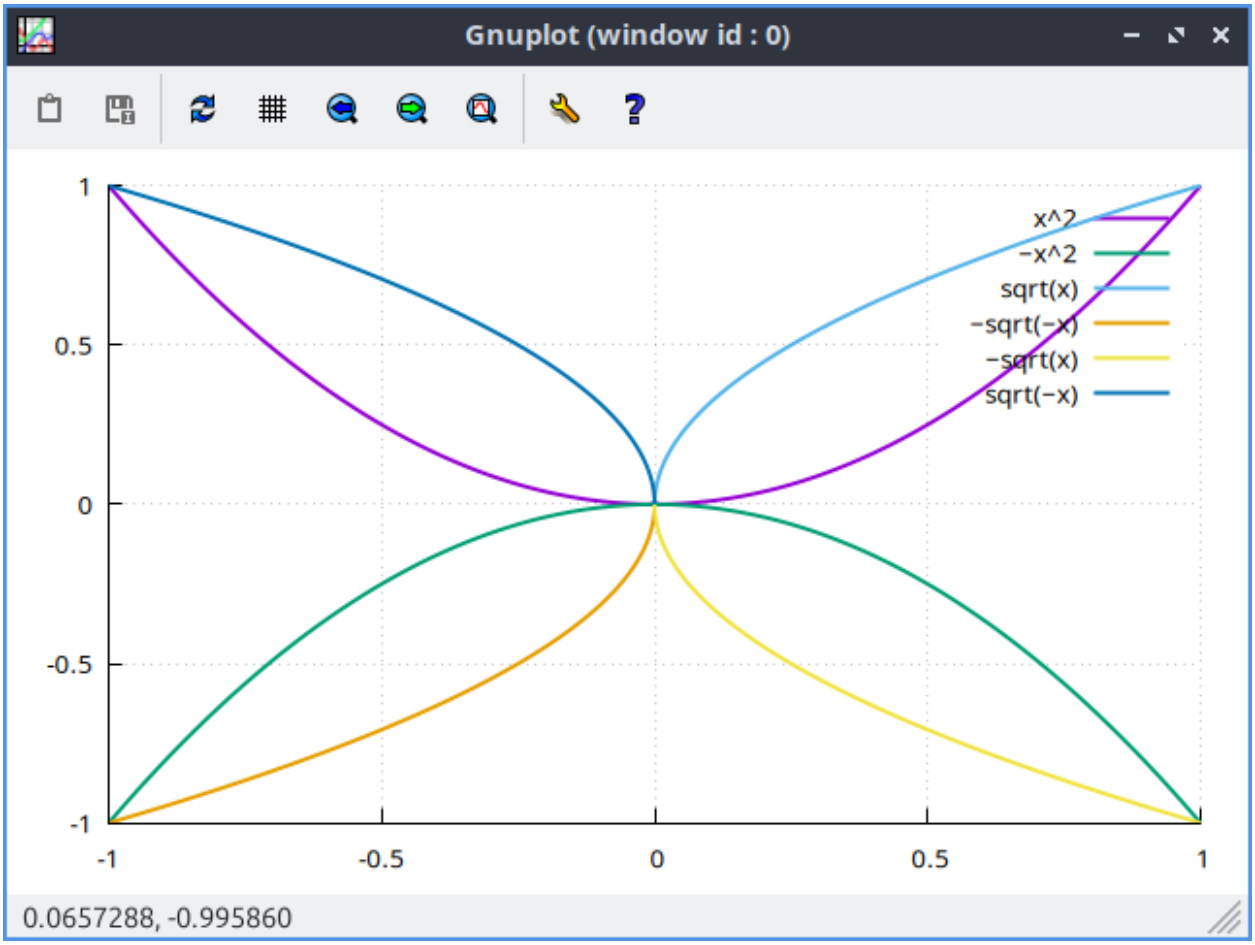


To change what values to take in the functions use the Function Range tab. To change what the lowest value for x to plot enter Minimum x value field. To change the highest value to plot use the Maximum x value. To change how many points to plot change the Sampling rate field. To only show the real part of functions uncheck the Show real and imaginary parts checkbox. To apply changes you make to your plot left click the Apply button.



The Appearance tab changes how the plot you make will appear. To have a title for your plot type in the Title field. To choose to display a grid for your plot check the Display grid checkbox. To have a full border around your plot check the Display full border checkbox. To choose a lowest value to show on the y axis check the Minimum y value checkbox and select the minimum value you want to show. To have a logarithmic scale on the x axis check the Logarithmic x scale checkbox and then to the right input the logarithmic base. To have logarithmic scale on the y axis check the Logarithmic y scale checkbox and input the logarithmic base to the right. To put an label on your x axis type it in the x-axis label field. To have a label on your y axis type in in the y-axis label field. To change the width of your line change the Line width field. To change where to place the legend use the Legend placement drop down. To have your changes applied left click the Apply button.


Plot — Qalculate!
Data
Function Range
Appearance
Title:
Display grid
Display full border
Minimum y value:
-1
Maximum y value:
1
Logarithmic x scale:
10
Logarithmic y scale:
10
X-axis label:
spam
Y-axis label:
eggs
Line width:
3
Legend placement:
Top-right
Apply
Close



Number Bases

To view numbers in something other than the default base 10 press `Control +B` or left click the 0110 button. This will show the result in Binary, Octal, Decimal, and Hexadecimal with the different digits of each numerical base. To hide numerical bases press `Control+B` again or left click 0110.

To change what number base the answer is displayed in left click left most slider button and select the number base you want under Result Base. To change what numerical base to input expressions in left click the left most slider button and select a base under Expression Base.

The programming keypad as menubutton for hexadecimal A-F and number base switching which can get by the 10 point icon Keypad ▸ Programming.

Completion

Qalculate! has a feature to autocompelte your functions and units. To start getting to settings to set up completeion right click over where you input expressions and select Completion. To turn autocompletion off right click on input and select Completion ▸ no completion. To set completion to a limited list of what you typed select strict completion with Completion ▸ Strict completion. To quickly complete something press the `Tab` key or left click on the list of options that pops up to autocomplete. To have even more options right click and Completion ▸ full completion.

Version

Lubuntu ships with version 5.11.0 of Qalculate!

How to Launch

To launch Qalculate! Accessories ▸ Qalculate! (Qt) or run

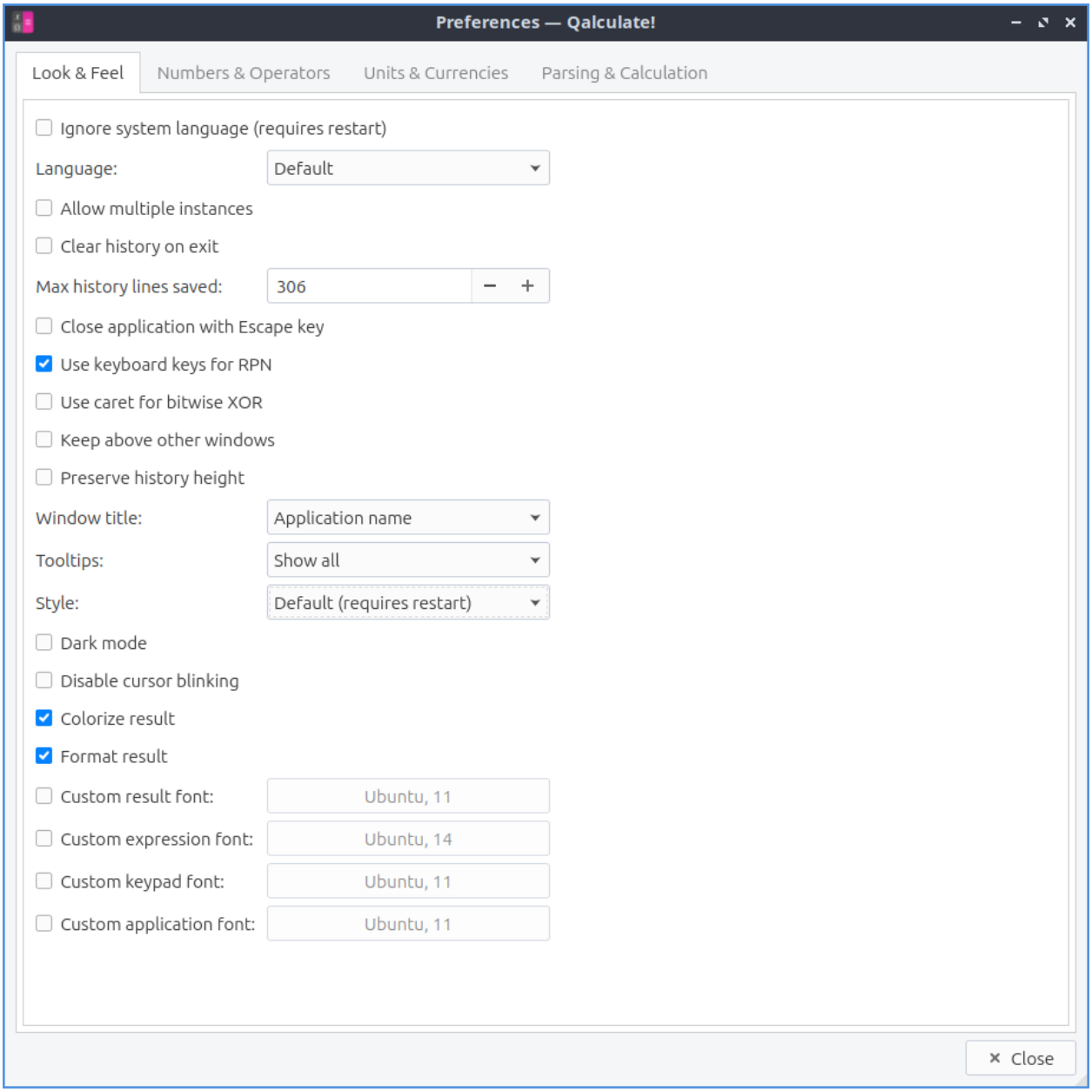
```
qualculate-qt
```

from the command line.

Customizing

To open the preferences dialog for Qalculate! left click on the three bars Menu ▸ Preferences. To change settings on how Qalculate! appears use the Look & Feel tab. To not use the system language check the Ignore system language checkbox and select the language in the Language menu. To allow multiple Qalculate! instances check the Allow multiple instances checkbox. To clear the history of Qalculate! on exit check the Clear history on exit checkbox. To change the maximum number of lines of history saved change the Max history lines saved field. To close Qalculate with the escape key check the Close application with escape key checkbox. To not use keyboard keys for Reverse Polish Notation uncheck the Use keys for RPN checkbox. To have the ^ key be used for a bitwise XOR check the Use caret for bitwise XOR checkbox. To start Qalculate always on top of other windows check the Keep above other windows checkbox. To preserve the height of history in your window check the Preserve history height checkbox.

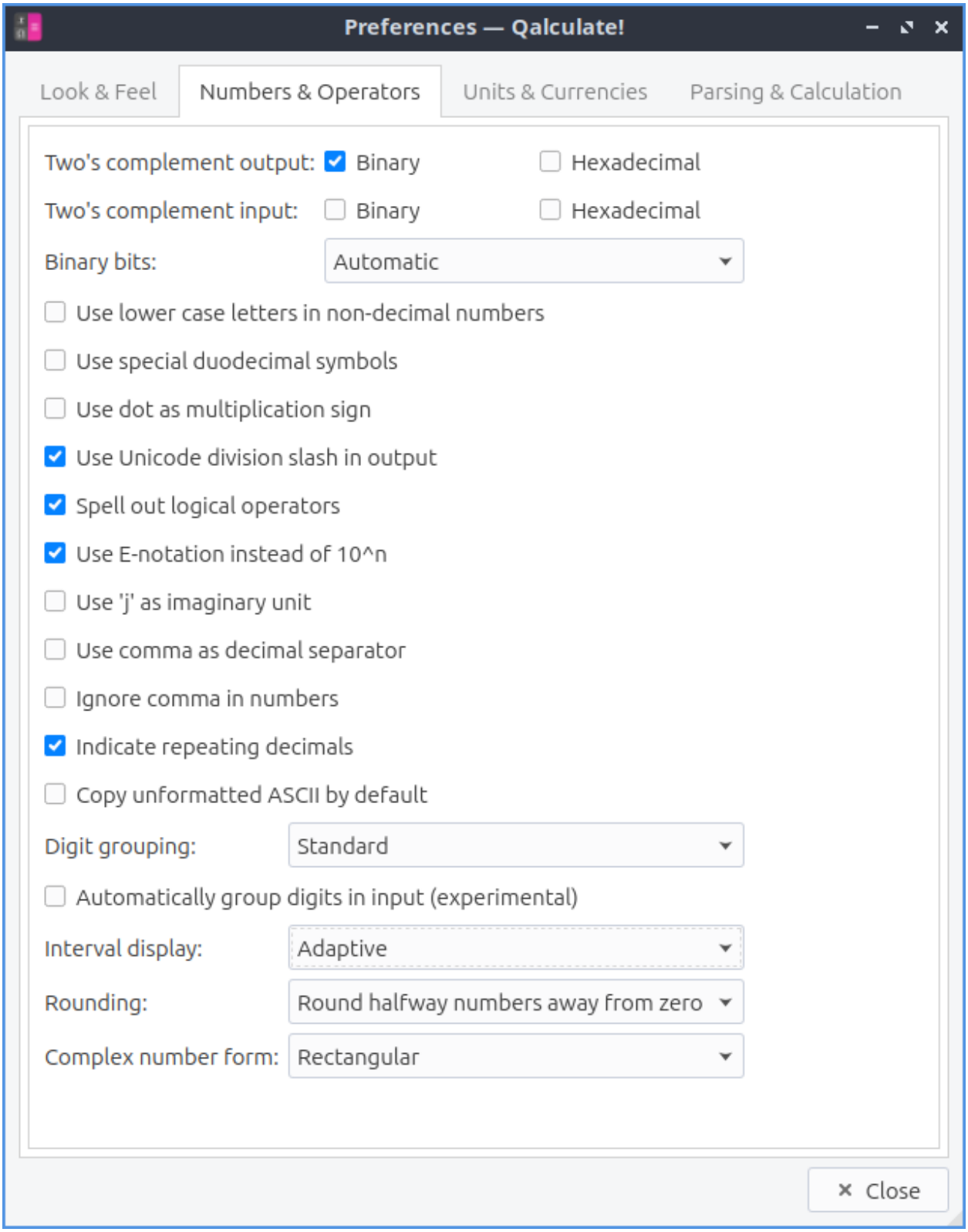
To change what to show in the window title use the Window title menu. To change what to show on tooltips use the Tooltips menu. To change what Qt style to show in Qalculate! use the Style menu. To enable dark mode on Qalculate! check the Dark mode checkbox. To disable cursor blinking check the Disable cursor blinking checkbox. To not colorize the result uncheck the Colorize result checkbox. To not format the result uncheck the Format result checkbox. To use a custom font for the result check the Custom result font checkbox and then click the button on the right to select a font. To have a custom font for your expression check the Custom expression font checkbox and then click the button to the right to select the font. To have a custom font for your keypad check the Custom keypad font checkbox and then click the button on the right to choose your font. To choose a custom font for the rest of the application use the Custom application font checkbox and then press the button on the right to change the font.



To have settings for how to format numbers use the Numbers and Operators tab. To output two complement in either binary or hexadecimal check the Binary checkbox or Hexadecimal checkbox next to Two's complement output. To change what input two's complement expects check the Binary or Hexadecimal checkbox next to Two complement input. To change what bits to put in binary change the binary bits menu. To use lower case letters check the Use lower case letters in non-decimal numbers checkbox. To use special symbols for base 12 numbers check the Use special duodecimal symbols checkbox. To use a dot as a multiplication sign check the Use dot as multiplication sign checkbox. To change how to display the multiplication sign use the Multiplication sign menu. To use the unicode division slash check the Use Unicode division slash in output checkbox. To have logical operators spelled out in words check the Spell out logical operators checkbox.

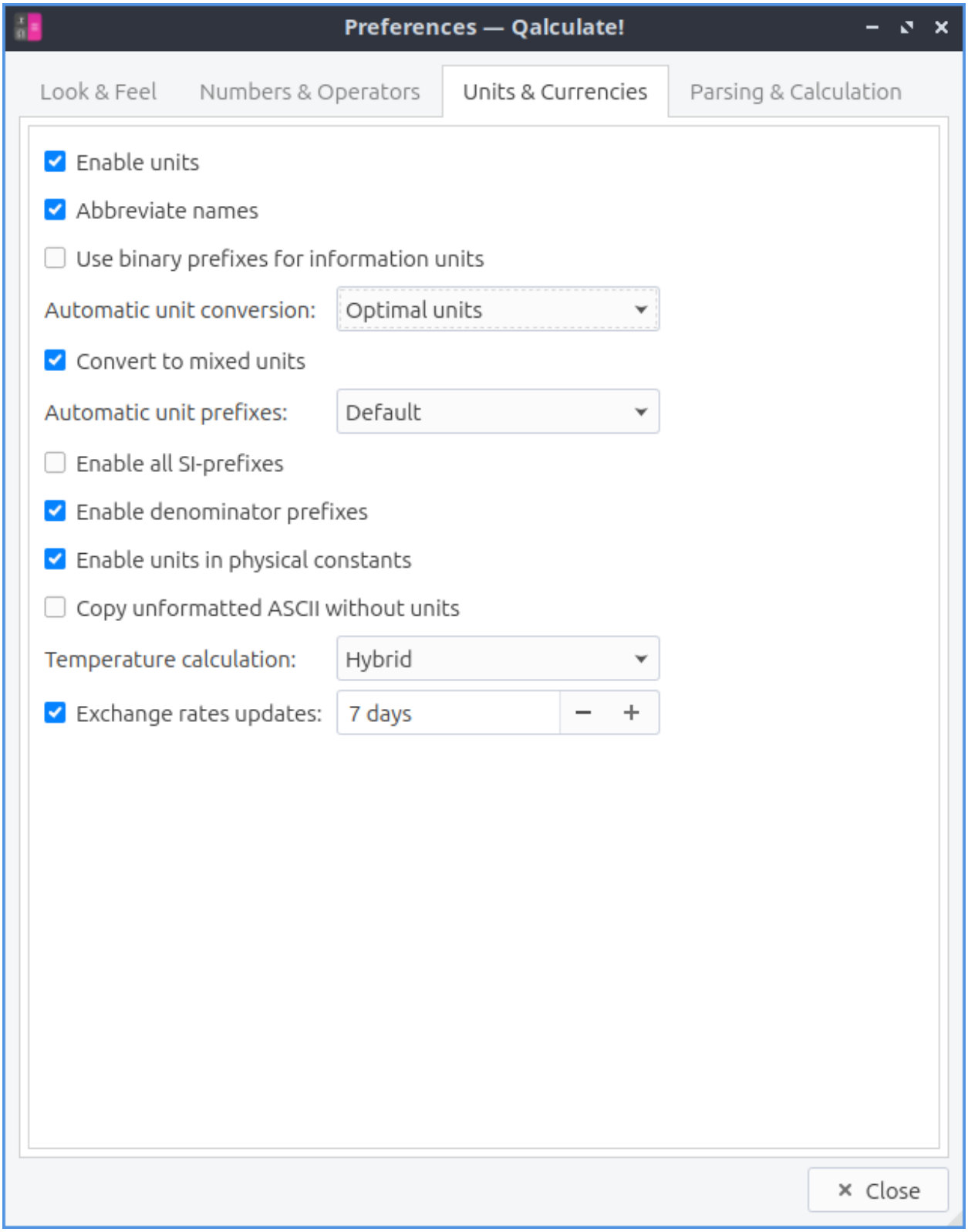
To display scientific notation with E instead of 10^n check the Use E-notation instead of 10^n checkbox. To switch imaginary units to j check the Use j as imaginary unit checkbox. To use a comma as a decimal separator check the Use comma as decimal separator checkbox.

To ignore commas in number check the Ignore comma in numbers checkbox. To indicate repeating decimals check the Indicate repeating decimals checkbox. To have what you copy be unformatted ASCII check the Copy unformatted ASCII by default checkbox. To change how to group digits change the Digit grouping menu. To automatically group digits when inputting them check the Automatically group digits in input checkbox. To change how to display intervals change the Interval display menu. To change how to round numbers change the Rounding menu. To change what form complex numbers take use the Complex number form menu.



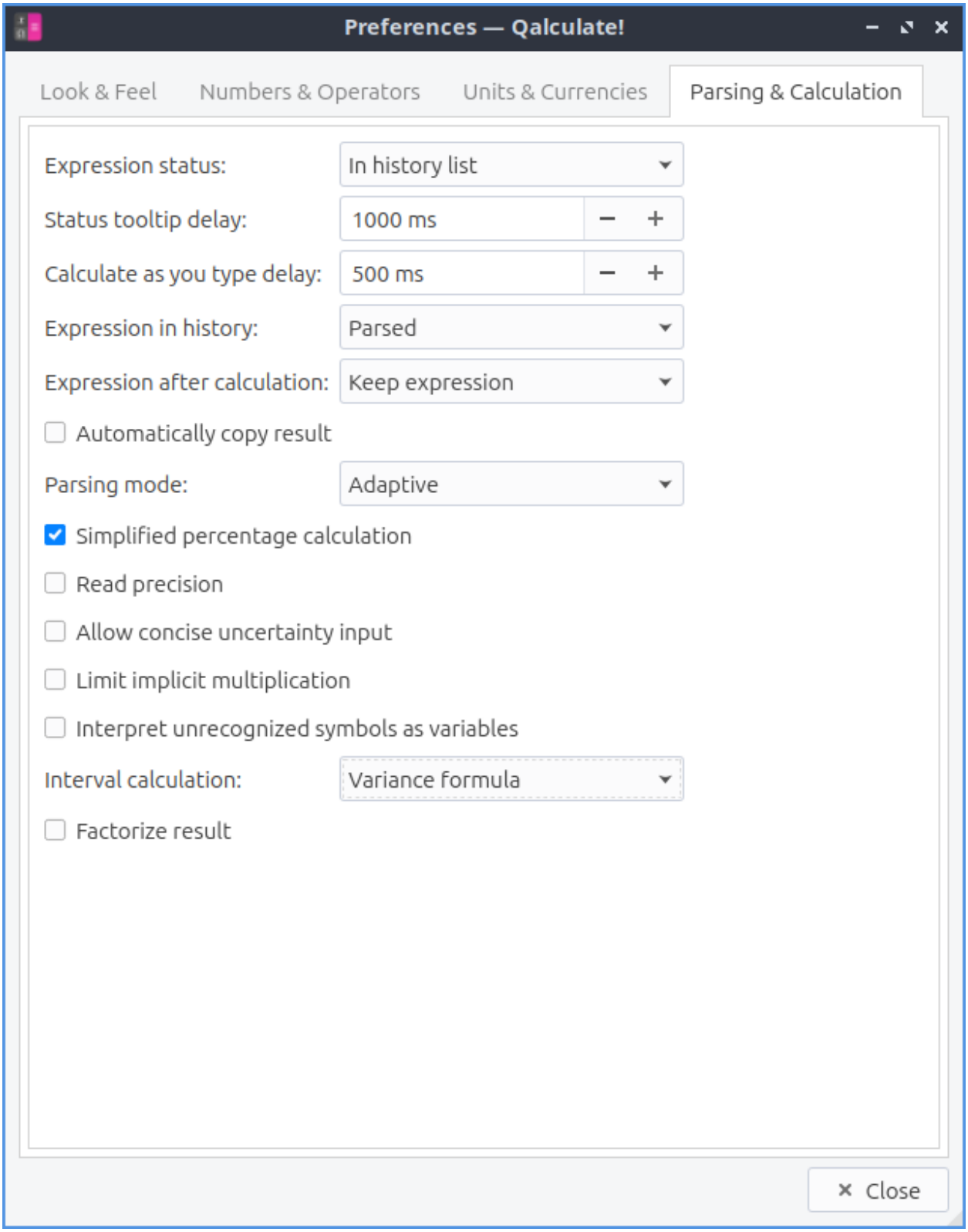
To change your settings with Units and Currencies use the Units & Currencies tab. To disable units uncheck the Enable units checkbox. To not abbreviate names uncheck the Abbreviate names checkbox. To use binary prefixes for information units check the Use binary prefixes

for information units checkbox. To change how to automatically convert units use the Automatic unit conversion menu. To convert to mixed units check the Convert to mixed units checkbox. To use automatic unit prefixes use the Automatic unit prefixes menu. To use SI prefixes for everything check the Enable all SI-prefixes checkbox. To enable prefixes in unit denominators check the Enable denominator prefixes checkbox. To enable units when using physical constants check the Enable units in physical constants checkbox. To copy text without the units check the Copy unformatted ASCII without units checkbox. To change how to calculate Temperature use the Temperature calculation menu. To change when to update exchange rates change the Exchange rates updates field.



To change how Qalculate! parsing things use the Parsing & Calculation tab. To choose where to store expression status use the Expression status menu. To change how long it takes a tooltip to display change the Status tooltip delay menu. To change how long to delay calcu-

lating as you type use the Calculate as you type delay field. To change if you want to display parsed entries in the history change the Expression in history menu. To change in history the expression after calculation use the Expression after calculation menu. To automatically calculate a result as you select something check the Automatically calculate selection checkbox. To automatically copy the result of your calculations check the Automatically copy result checkbox. To change the parsing mode use the Parsing mode menu. To use simplified percentage calculation use the Simplified percentage calculation checkbox. To read precision check the Read precision checkbox. To use concise uncertainty input use the Allow concise uncertainty input checkbox. To limit implicit multiplication check the Limit implicit multiplication checkbox. To interpret any unrecognized symbol as a variable check the Interpret unrecognized symbols as variables checkbox. To change how to calculate interval change the Interval calculation menu. To factor your answers check the Factorize result checkbox.


Preferences — Qalculate!
Look & Feel
Numbers & Operators
Units & Currencies
Parsing & Calculation
Expression status:
In history list
Status tooltip delay:
1000 ms
Calculate as you type delay:
500 ms
Expression in history:
Parsed
Expression after calculation:
Keep expression
Automatically copy result
Parsing mode:
Adaptive
Simplified percentage calculation
Read precision
Allow concise uncertainty input
Limit implicit multiplication
Interpret unrecognized symbols as variables
Interval calculation:
Variance formula
Factorize result
Close

Chapter 2.4.4 PCManFM-Qt

Description

PCManFM-Qt (PCMan File Manager) is the default file manager for Lubuntu ported to Qt after the original developed by Hong Jen Yee from Taiwan which is meant to be a replacement for Nautilus, Konqueror and Thunar.

Features:

- Tabs
- Bookmarks
- Places sidebar with removable media or directory tree
- Ability to eject removable media
- Ability to mount other filesystesms internally.

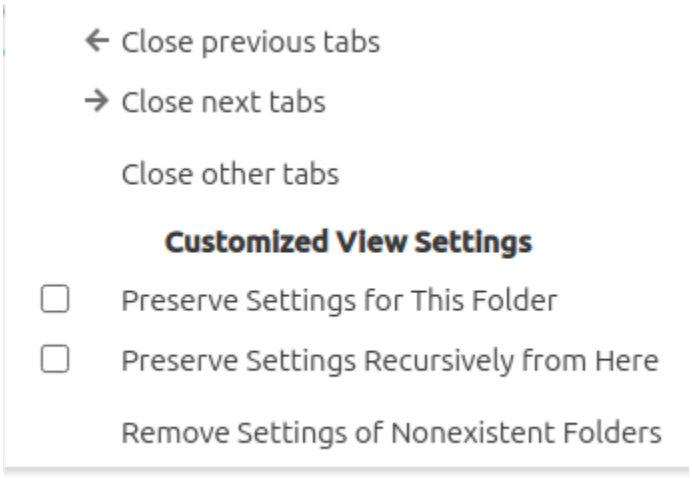
Usage

If you single left click on a file you will select it. If you double click on it you will open it in the default program to open that file. If you want to select multiple files you can hold down `control+ Left click` to select each file or press the Plus button to add that particular file. To remove a file if you select multiple files press the - button that appears when mousing over a file. To copy files select the file right click Copy, Edit ▸ Copy, or press `control +c`. To cut files select them right click Cut, Edit ▸ Cut, or press `control + x`. After copying or cutting a file you can paste them with right clicking Paste, Edit ▸ Paste, or pressing `control +v`.

If you double click on a folder you open that folder in PCManFM-Qt and it shows what files are in the folder you opened. If you want to open a folder in a new tab right click on that tab and select Open in New Tab. To open a folder in a new window right click it and select Open in New Window. To open a folder in your terminal right click it and select Open in terminal.

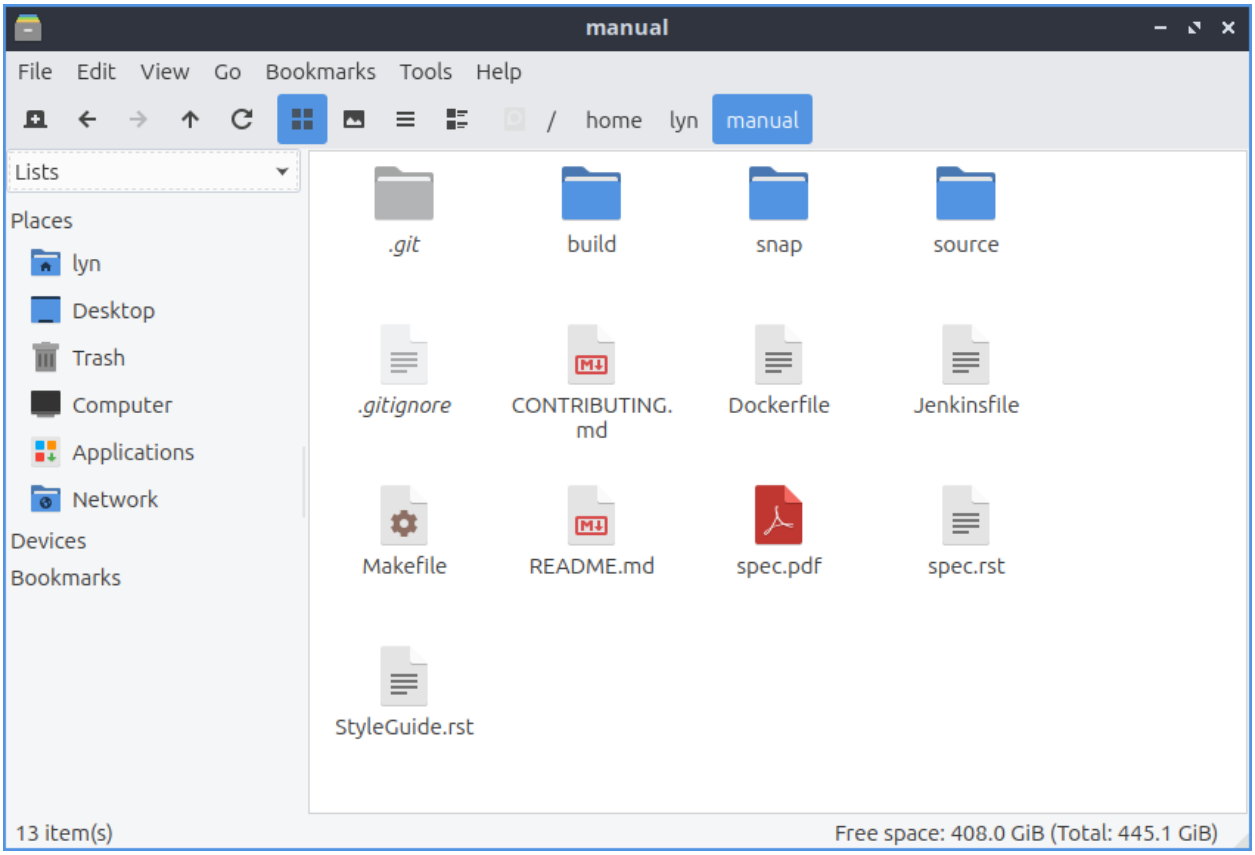
Along the top to create a new tab in PCManFM-Qt you can use the button with a file and a plus on it to open a new tab or press `control +t`. You also can double click on the tab bar to open a new tab. The left pointing arrow button is a back button while the right pointing arrow button moves you forward in the directories that you have moved in the file manager. Another way to go back and forward is `Alt + Left arrow` or Go ▸ Go Back and another way to go forward is `Alt + Right Arrow` or Go ▸ Go Forward. The button for the arrow pointing upward is to go up one level in the directory tree to the so called parent directory or press `Alt+Up arrow`, press `Backspace`, or Go ▸ Go Up. To rename your files right click on the file and click Rename, Edit ▸ Rename, or press `f2`.

To close a tab click on the x button on the tab bar, middle click on the tab, press `Control +W`, or from the menu File ▸ Close Tab. To close tabs to the left right click on the tab bar and select Close previous tabs. To close all tabs to the right of this tab Close next tabs. To close all tabs but the current one right click on the tab bar and Close other tabs. To preserve settings for a folder of a tab check the Preserve Settings for this Folder checkbox. To preserve settings for a folder and all folders in this folder check the Preserve Settings Recursively from Here checkbox. To remove settings from deleted folders select Remove Settings of Nonexistent folders.

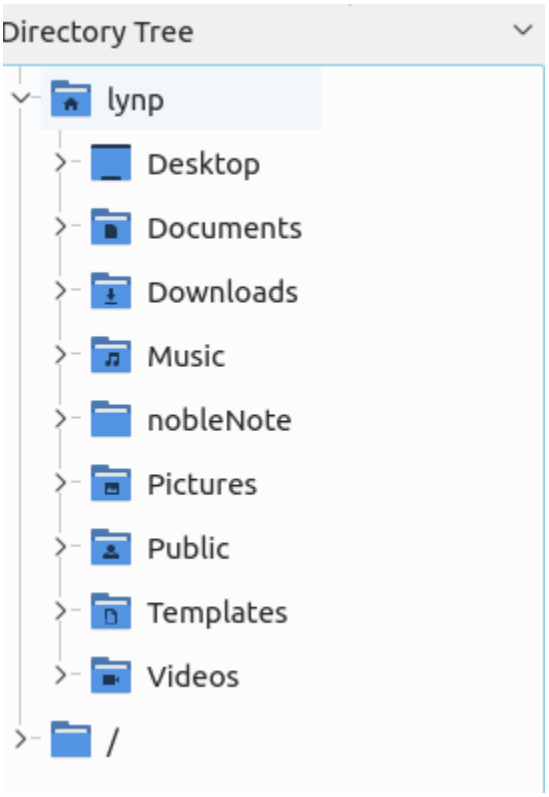


If you have installed multiple programs that can open a file right click and select Open With ▸ Program you want to launch.

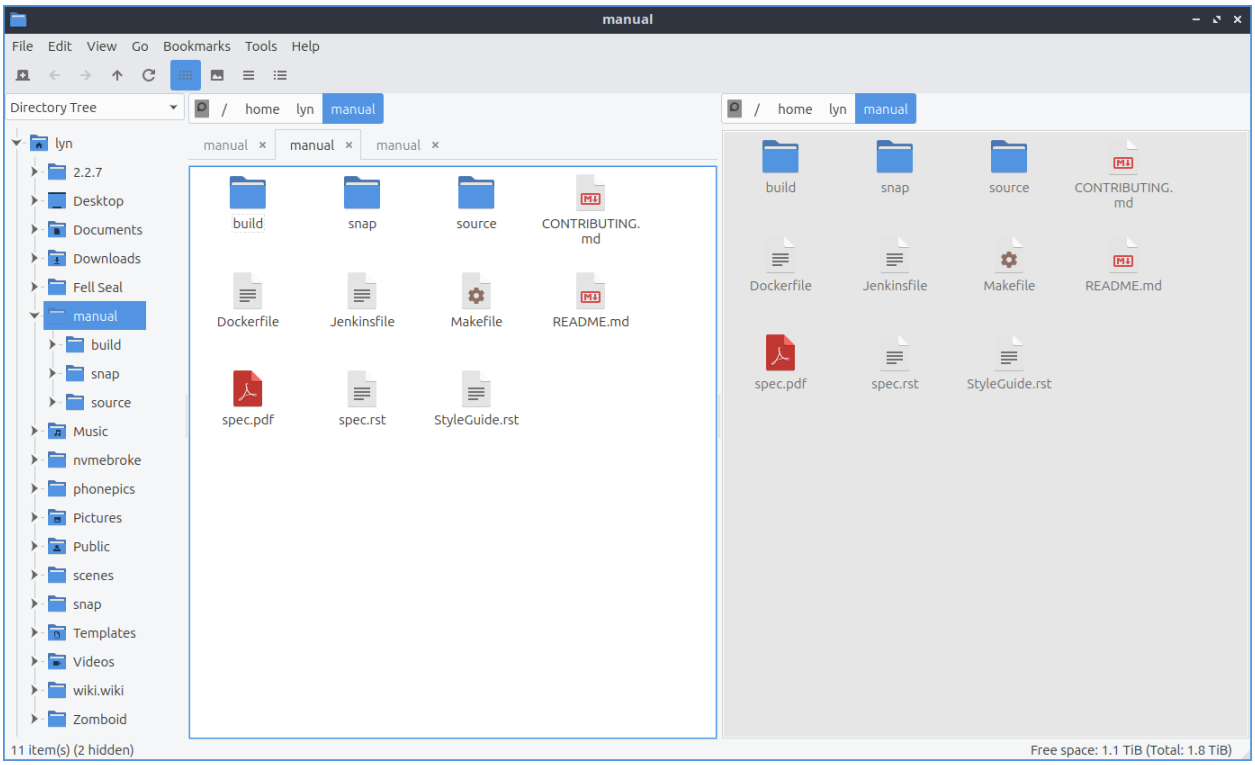
To create a new empty text file press `Control + Alt +N` or right click Create New ▸ Blank File, or File ▸ Create New ▸ Blank File and type in the name of the file you want. To create a new folder or directory press File ▸ Create New ▸ Folder, right click Create New ▸ Folder, or press `Control+ Shift +N` and input the new folder name. To delete your files from PCManFM-Qt will first put them in the trash so they are not gone forever. To move a file into the trash right click that file Move to Trash or select the file and press `Delete`. To get a file out of the trash in places trash to get to your trash or Go ▸ Trash. To bring a file back from the trash right click Restore. To permanently delete all files from the trash can right click on Trash in the places sidebar and select Empty Trash. To go back to your home folder press `Alt +Home` or Go ▸ Home.



To view a directory tree on your side pane select Directory Tree from the menu above the side pane. To expand into a folder press the > to expand the files and the ˅ button to collapse the folder. To switch to a folder left click on the folder name. To have open a directory in a new tab right click on it and select Open in new tab. To open a folder from the directory tree in a terminal right click Open in terminal. To switch to back to places from the menu above the side pane select Lists at the top of the side pane. To resize the side pane left click on the border between the side pane and main part of the window. To toggle hiding the side pane press F9 or View ▸ Side Pane.

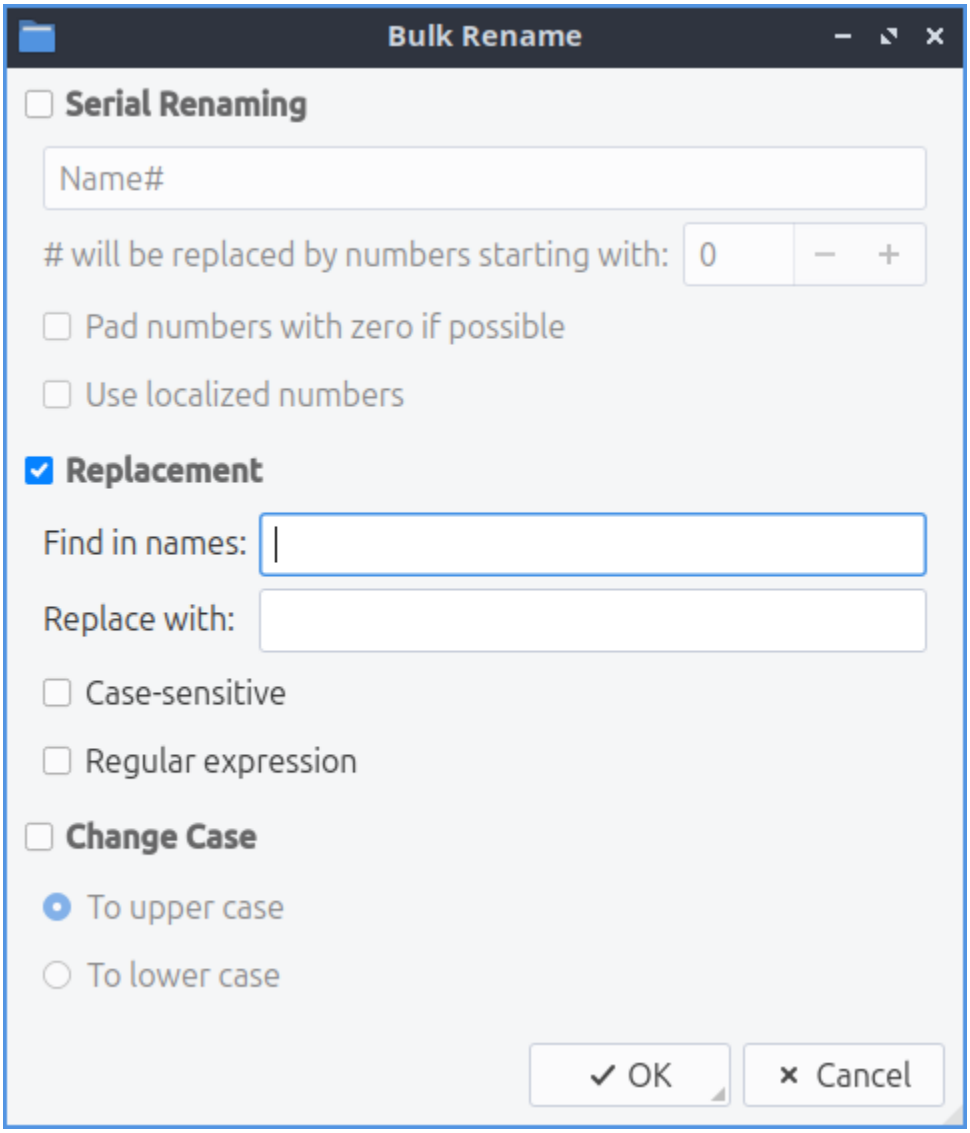


To toggle having a split view to be able to view two folders in press F6 or View ▸ Split View. This split view allows you to have two folders open which is quite useful for copying files. To switch between the two different folders left click on the half of the screen to move to the left hand side to manage files and click on the right hand side to manage files on the right on side. The side of split view you are on will appear lighter and the side inactive will be shaded. To switch which side you are using simply left click on that side. To navigate each side has its own set of buttons on top to navigate for that side. To switch back to your normal view press F6 again or View ▸ Split View again.

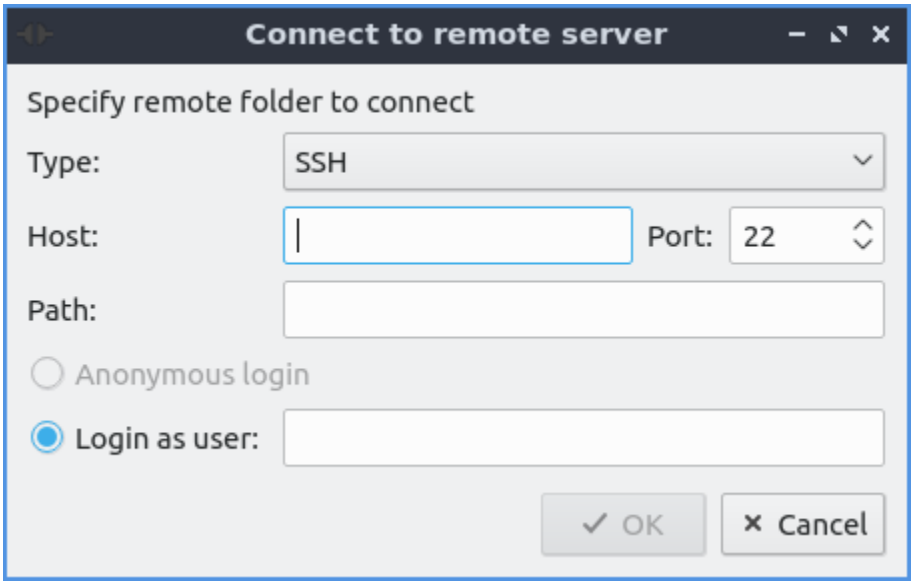


To select all files in a directory is to press `Control+ A`, Edit ▸ Select All, or right click Select All for all of the files. To select what you don't have selected press `Control + Shift+ A`, Edit ▸ Invert Selection, or right click and select Invert Selection.

To bulk rename multiple files first select all the files you want to rename then Edit ▸ Bulk Rename or press `Control+F2` and a dialog window will show up. To use numbers of multiple files in a series heck the Serial Renaming checkbox. To choose what number to start numbering your files change the # will be replaced by numbers starting with field. To pad numbers with zero check the Pad numbers with zero if possible checkbox. To use localized numbers check the Use localized numbers checkbox. To choose find and replace something in names check the Replacement checkbox. To find something in bulk names to replace use the Find in names field. To choose what in the names to replace use Replace with field. To make a finding and replacing case sensitive check the Case sensitive checkbox. To replace with a regular expression check the Regular expression checkbox. To change the case of all selected files check the Change Case checkbox. To change to uppercase left click the To upper case button. To change all file names to lower case left click the To lower case checkbox. To rename all these files press the OK button or to not rename them press the Cancel button.



To connect to a remote server such as a NAS go to the Go ▸ Connect to server and authenticate to your remote storage. If you want to plug in removable storage you can open the storage on the left sidebar with devices. To switch to the removable media left click on the device in the side pane. This also applies to other internal filesystems on your computer. If you are mounting an encrypted drive you will need to enter your passphrase to unlock the drive. To eject removable media press the button on the left with a circled up arrow to eject. On the side pane you can right click to open a place in a new tab by right clicking Open in New Tab on the side pane.



PCManFM-Qt also supports transferring files to mobile devices plugged in with a USB cable. On the left hand side under Devices the mobile device will appear. You may need to accept sending files on the device to allow it to transfer files. After you have done this You can see the files on mobile device and transfer files to them. To eject the mobile devices press the upward pointing arrow to unmount it. If you want a device not to show up right click on it under devices and check the Hide checkbox.

At the bottom of the window is a filter bar that lets you show files only matching a pattern in the window of the current folder. To show the filter bar press `Control+I` or View ▸ Filtering ▸ Show/Focus Filter Bar. To use it type what you want to search for in the bar that says Filter. How many result you match will show in the item(s) field. To empty out the filter press `Escape`. To return the filter back to seeing all files clear the text field and hide the filter bar by pressing `Escape` or View ▸ Filtering ▸ Clear All Filters. If you still want to see the filter bar but to see all files hold the `backspace` key to clear it out.

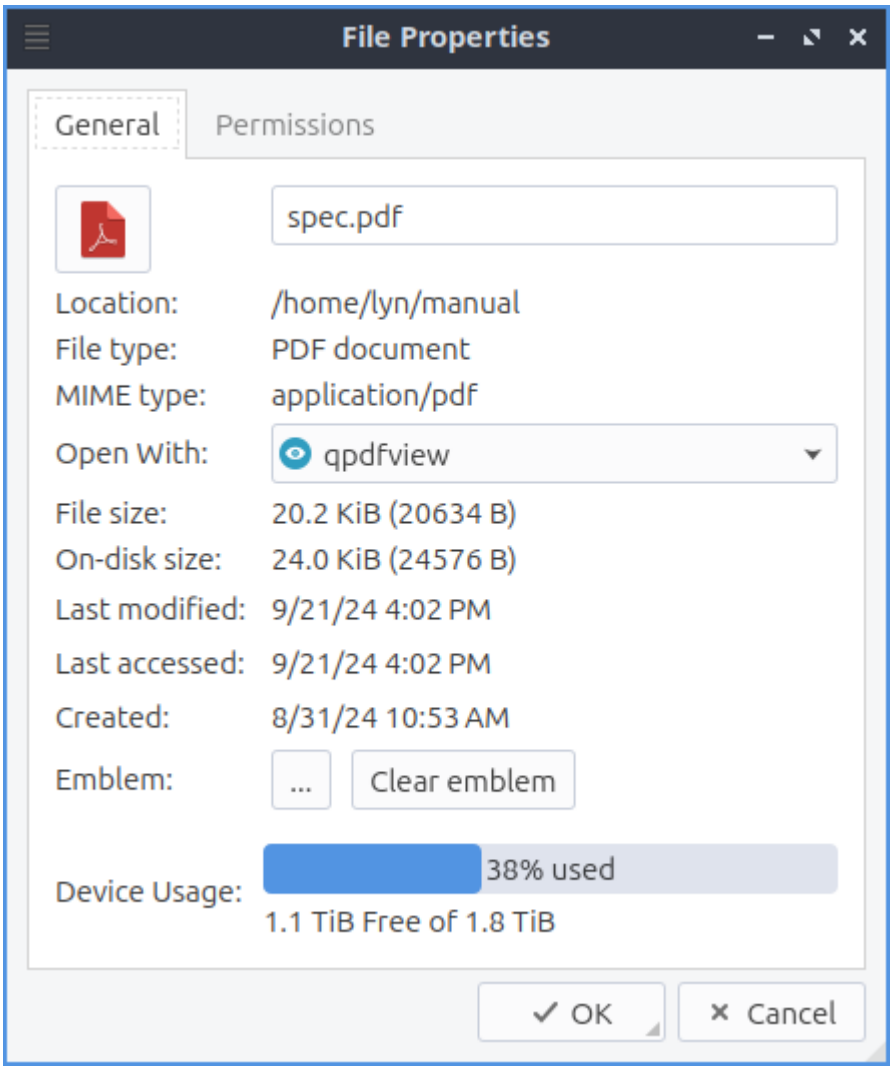
On the very bottom of the PCManFM-Qt window when you have nothing selected it shows x item(s) (y hidden) showing how many items are in the current folder. To the right of this shows Free space showing how much free space you have. The (Total) shows the full size of the storage medium this is on. When you select one file on this bottom bar it will show the file name, the file size, and the type of file it is. If you select multiple files the bottom bar to the left will show X item(s) selected where X is the number of files you have selected and how much disk space they take up. When you have one file selected it will say the the file name, the size of the file in parenthesis, and then the type of image.

To have PCManFM-Qt reload what folder you are viewing press `F5`, the circular pointing arrow button, or View ▸ Reload. To see hidden files press `control +h`, right click Show Hidden, or go to View ▸ Show Hidden. Do the same thing again to hide hidden files again. To toggle showing thumbnails check/uncheck the View ▸ Show Thumbnails. To open a terminal in your current folder press `f4`, right click on a folder and select Open in Terminal, or Tools ▸ Open Terminal from the menu. To copy the full path of a file or directory press `Control+Shift+C` or Tools ▸ Copy Full Path after selecting a single file. To open the tab in as root select Tools ▸ Open tab in root instance and a new window will appear that says it is root at the bottom of the window in red.

Warning

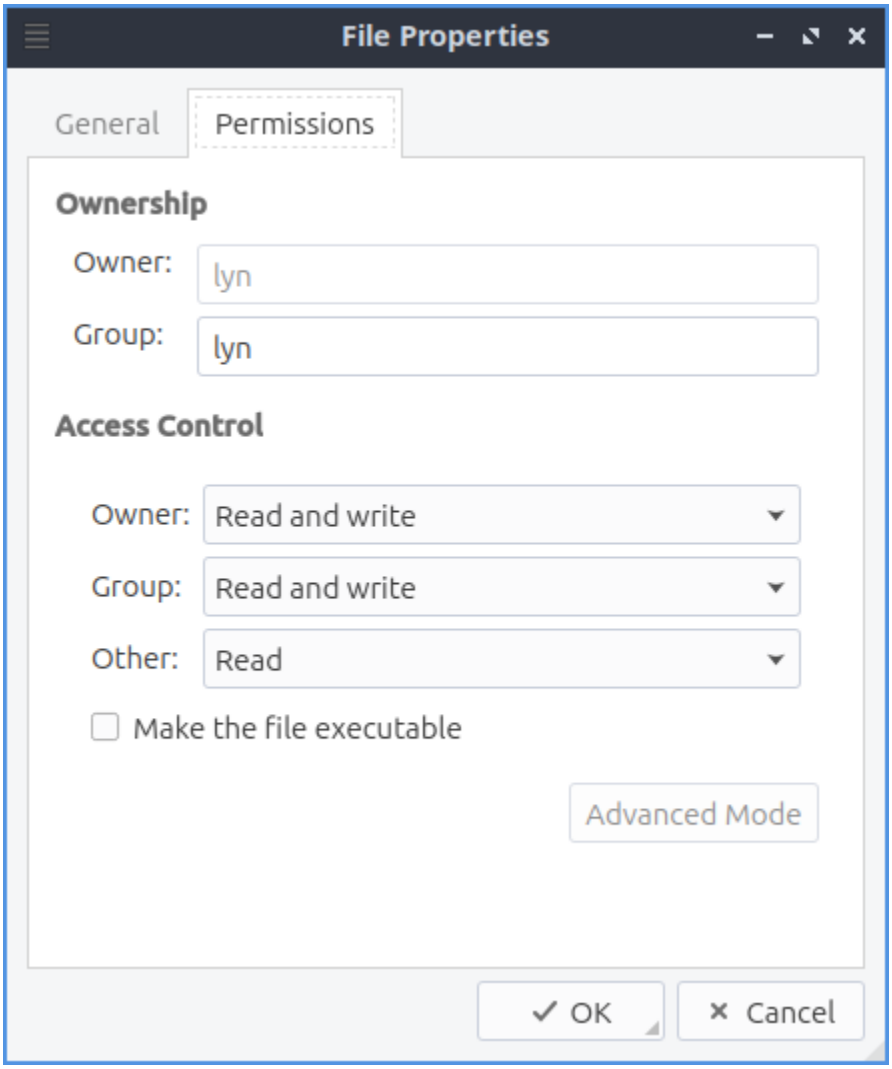
Modifying or deleting files as root may end up making your system unable to boot if you do not know what you are doing or make a mistake.

To view the properties of a file or folder right click on it and select Properties from the menu, File ▸ File Properties or press `Alt +Enter`. To view a dialog that shows folder properties File ▸ Folder Properties. To choose a The General tab will show you the size of the file, where the file is, when the file was created, and when it was last modified or accessed. To change what program a file opens with use the Open With drop down menu and select the program to open the file. To change the icon shown for a file use the … button next to Emblem. To clear this from the file press the Clear emblem button. To view how much free space is left on the drive that the file is stored on view the Device Usage graph.



The Permissions tab will show you who owns the file which if you can't change it will be grayed out and who has permission to read modify and execute the file. To change permission of files the Owner, Group, or Other drop down menu will allow you to choose whether you can read, read and write, or forbidden. To make something executable such as a script you wrote check the Make the file executable checkbox. At the bottom of the window is a bar graph showing

disk usage of the partition the file exists on. If you use folder properties on the top left hand corner click on the folder icon and a file dialog will open to choose the new icon with the path of the current icon theme. Left click on the icon you want and then press the Choose button.

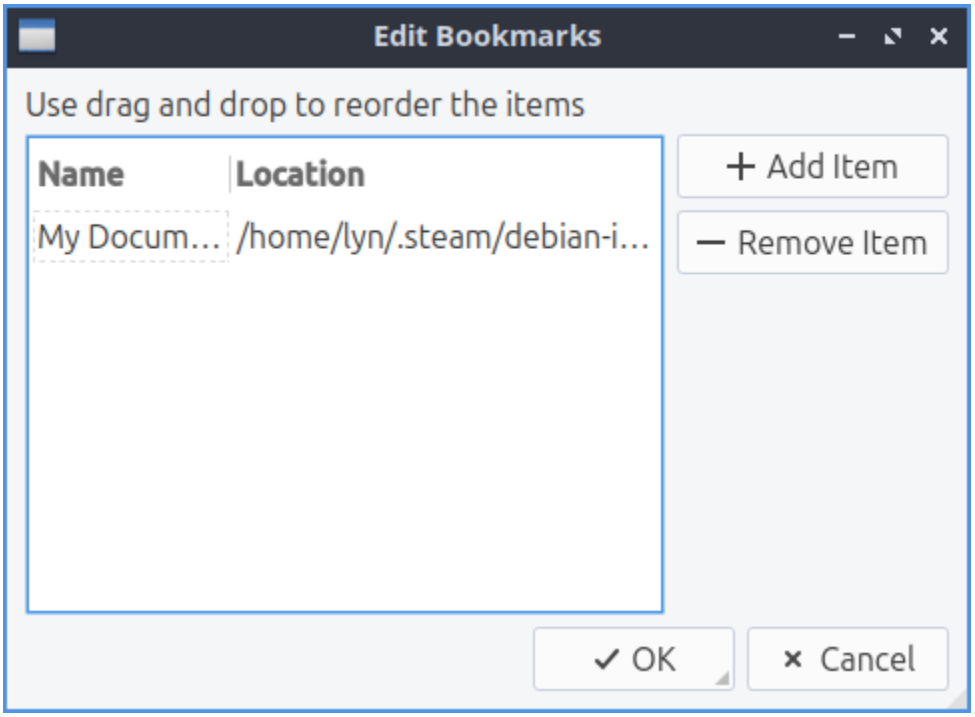


PCManFM-Qt can actually launch other applications in places Applications or Go ▸ Applications and then gets all the tasks in the main menu of lxqt-panel. To view what files are on your desktop Go ▸ Desktop or on the places sidebar press the desktop item on the left.

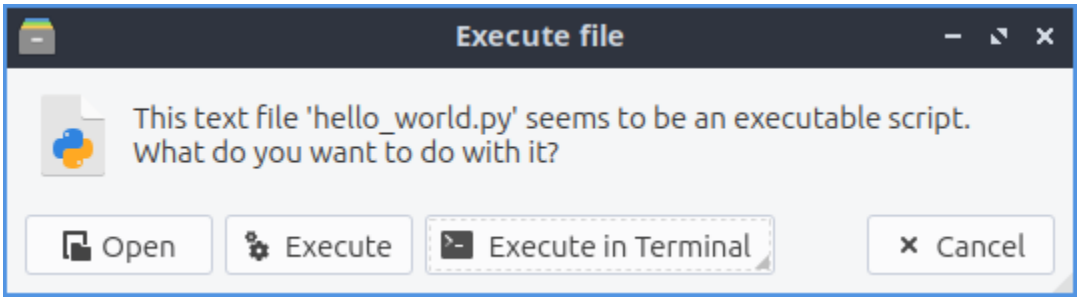
To add a bookmark Bookmarks ▸ Add to Bookmarks and it will make a bookmark. To later access this bookmark it will be on the left hand side under Bookmarks and under the Bookmarks menu. To rename a bookmark you can right click on the bookmark on the left hand side Rename Bookmark and this does not have to match the filename nor will it change the filename on the filesystem. To remove a bookmark right click on the left hand side on the bookmark and select Remove Bookmark. To open a bookmark in the left hand side right click on the bookmark Open in New Tab. To open a bookmark in a new window on the left hand side right click on the bookmark Open in New Window. To move your bookmark up or down in the order right click on the bookmark Move Bookmark Up to move it up and Move Bookmark Down to move it down.

To bring up a dialog to edit bookmarks Bookmarks ▸ Edit bookmarks. To Remove a bookmark from the edit bookmarks dialog press the Remove Item button. You can also add a bookmark

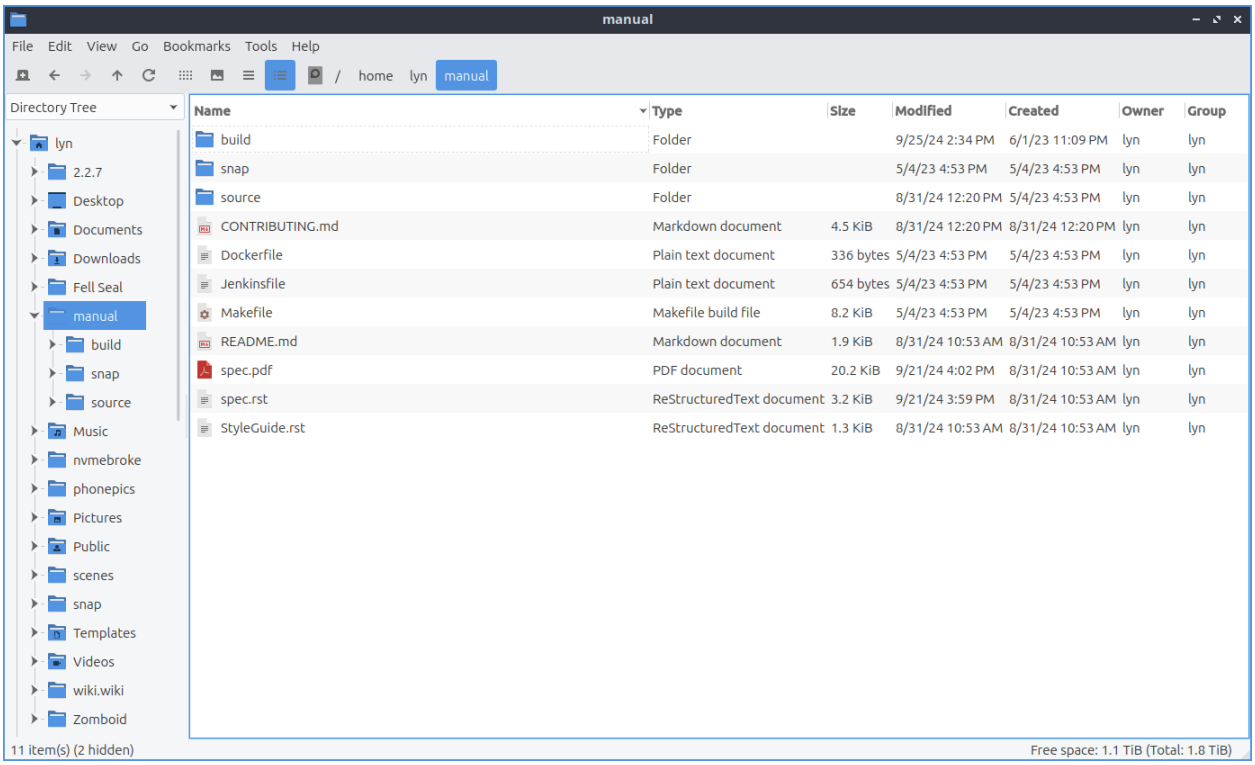
from here with the Add Item button. To cancel your changes press the Cancel button. From the edit bookmarks you can reorder your bookmarks by left clicking and dragging to where you want the bookmark to go.



If you want to run an executable script from PCManFM-Qt double click and then click Execute on the execute file dialog window. If you wish to edit the script you can press the Open button. To cancel and not do anything press the Cancel button. If you plan on executing this file a lot you can right click on the file and then select Trust this executable to not have this dialog popup.

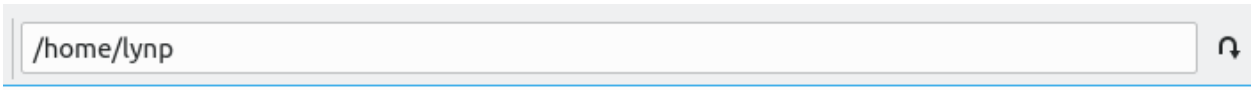


PCManFM-Qt has different view modes which can be changed in the view menu. To select a view that has bigger thumbnails to view pictures before deciding to open them View ▸ View ▸ Thumbnail View, press `Control + Shift + 2`, or press the button that looks like a picture of a landscape. If you want to view lists of move data about something like the file size the time it is modified select detailed list view by View ▸ View ▸ Detailed List, press `Control + Shift + 4`, or press the toolbar button with bullet points in front of three horizontal lines. If you really want to have see as many files in a small area use the compact view View ▸ View ▸ Compact View, press `Control + Shift +3`, or press the toolbar button with three horizontal lines. To return to the original view of PCManFM-Qt is to View ▸ View ▸ Icon View, press `Control + Shift +1`, or press the toolbar button with 12 dots. To have a view always selected for the particular folder you are on now check the View ▸ Preserve Settings for This Folder checkbox.



To reverse the order that PCManFM-Qt sorts files View ▸ Sorting ▸ Descending or conversely to switch back View ▸ Sorting ▸Ascending. To sort by file name View ▸ Sorting ▸ By file name. To sort by modification View ▸ Sorting ▸ By modification time. To sort by file size View ▸ Sorting ▸ By file size. To sort by file type View ▸ Sorting ▸ By file type. To sort by owner View ▸ Sorting ▸ By Owner. To separate all folders first in sorting check the checkbox in View ▸ Sorting ▸ Folder First. To show hidden files last check the View ▸ Sorting ▸ Hidden Last checkbox. To sort with case sensitive check the checkbox in View ▸ Sorting ▸ Case sensitive. You can also get to this sorting menu by right clicking :menuselection:` Sorting –> Your Sorting Option`.

To change your path bar to buttons View ▸ Pathbar ▸ Location and to get back to a pathbar you can type into View ▸ Pathbar ▸ Path Buttons. To toggle showing the menubar `Control +M` or View ▸ Toolbars ▸ Menubar and uncheck the checkbox. To get the menubar back press `Control +M` again. To toggle showing or hiding the permanent filter bar press `Control+B` or View ▸ Toolbars ▸ Permanent filter bar.

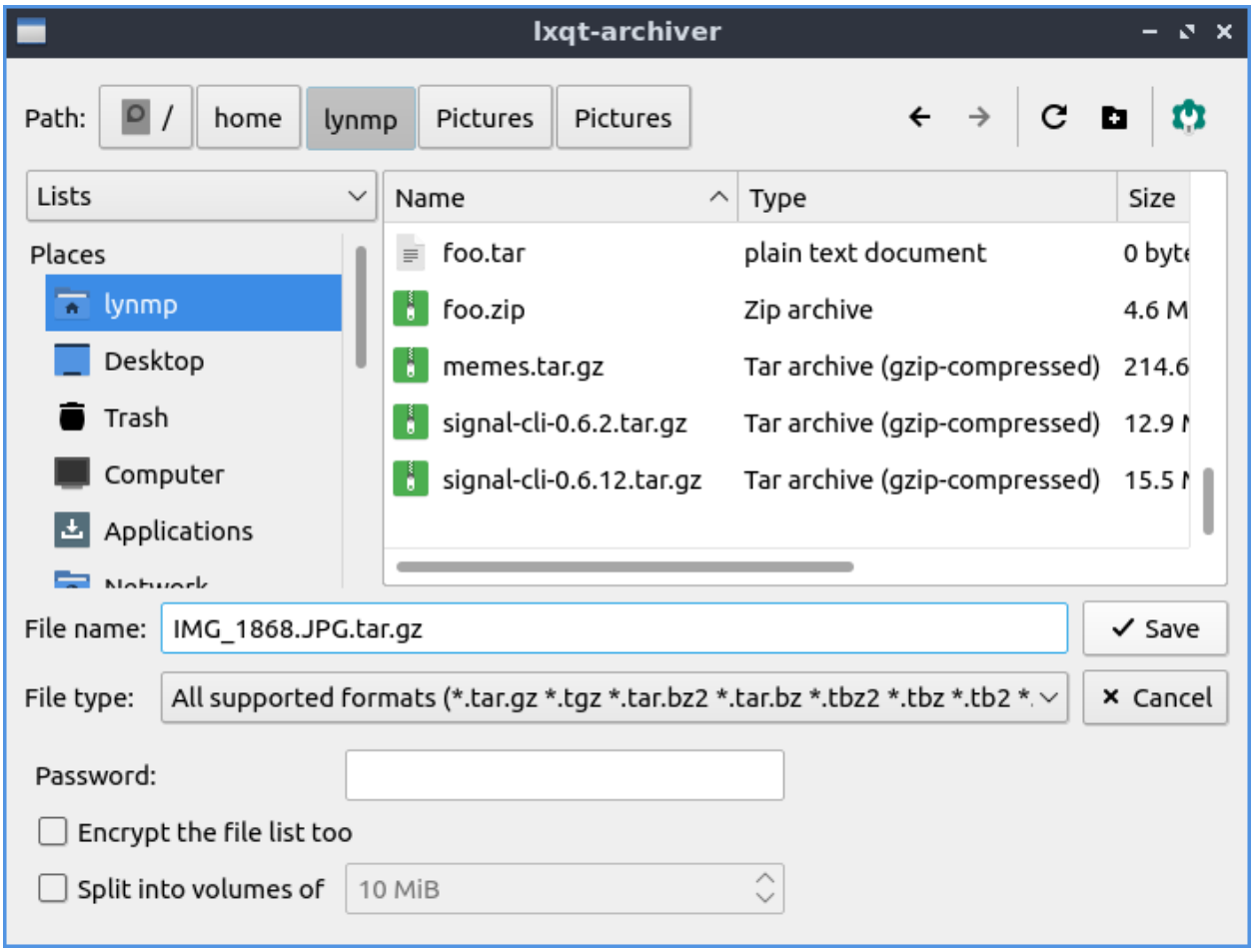


To quit PCManFM-Qt press `Control+Q`.

Extracting and Compressing Archives

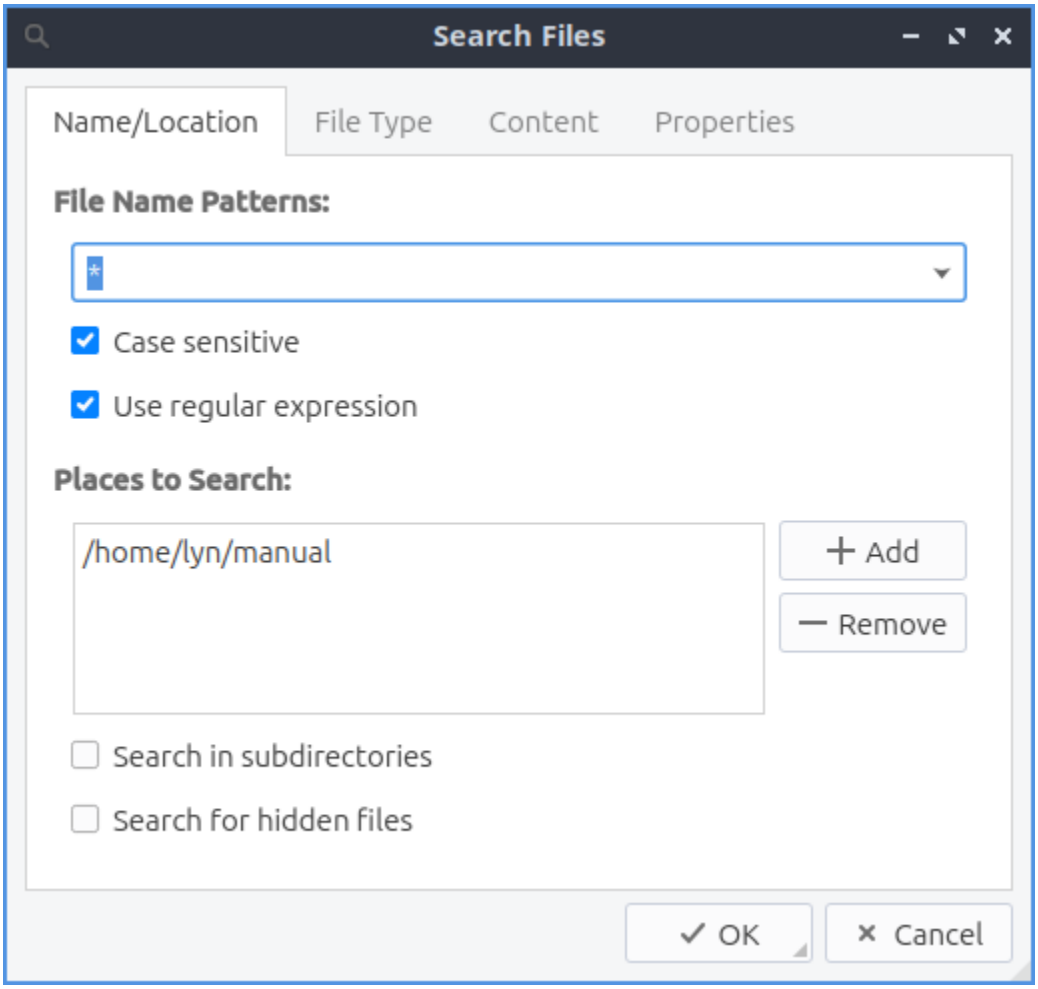
PCManFM-Qt has options when right clicking has special options for dealing with archives such as tar or zip files. To extract the files in the current directory right click and select Extract Here. You can also extract to another location with right clicking and selecting Extract to and a dialog will pop up showing to where to extract the file. To select a file and compress it right click and select Compress will open up a dialog. To chose a file name for your new compressed archive enter in the File name field. To choose what type of archive choose change the File Type drop down menu. To actually create the archive press the Save button.

To add a password to the archive you are creating enter that in the Password field.

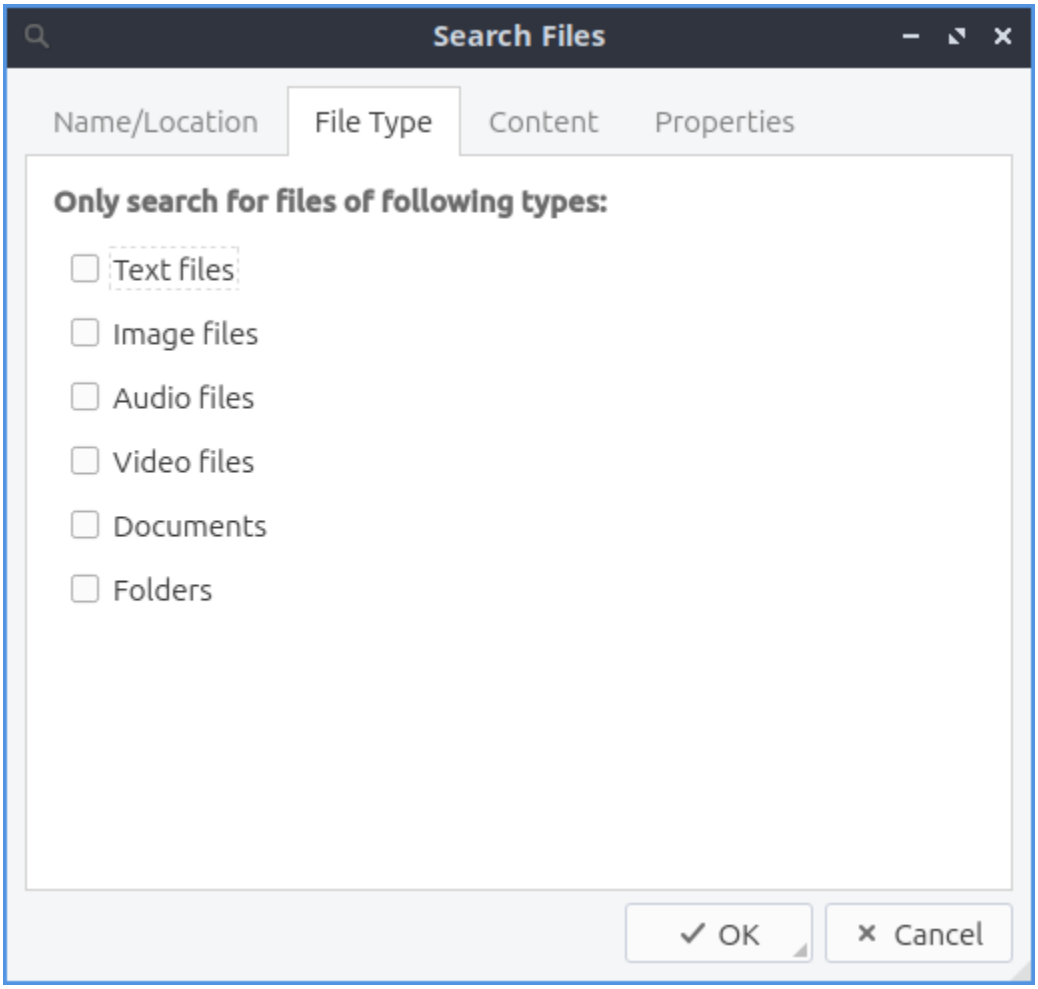


Searching for Files

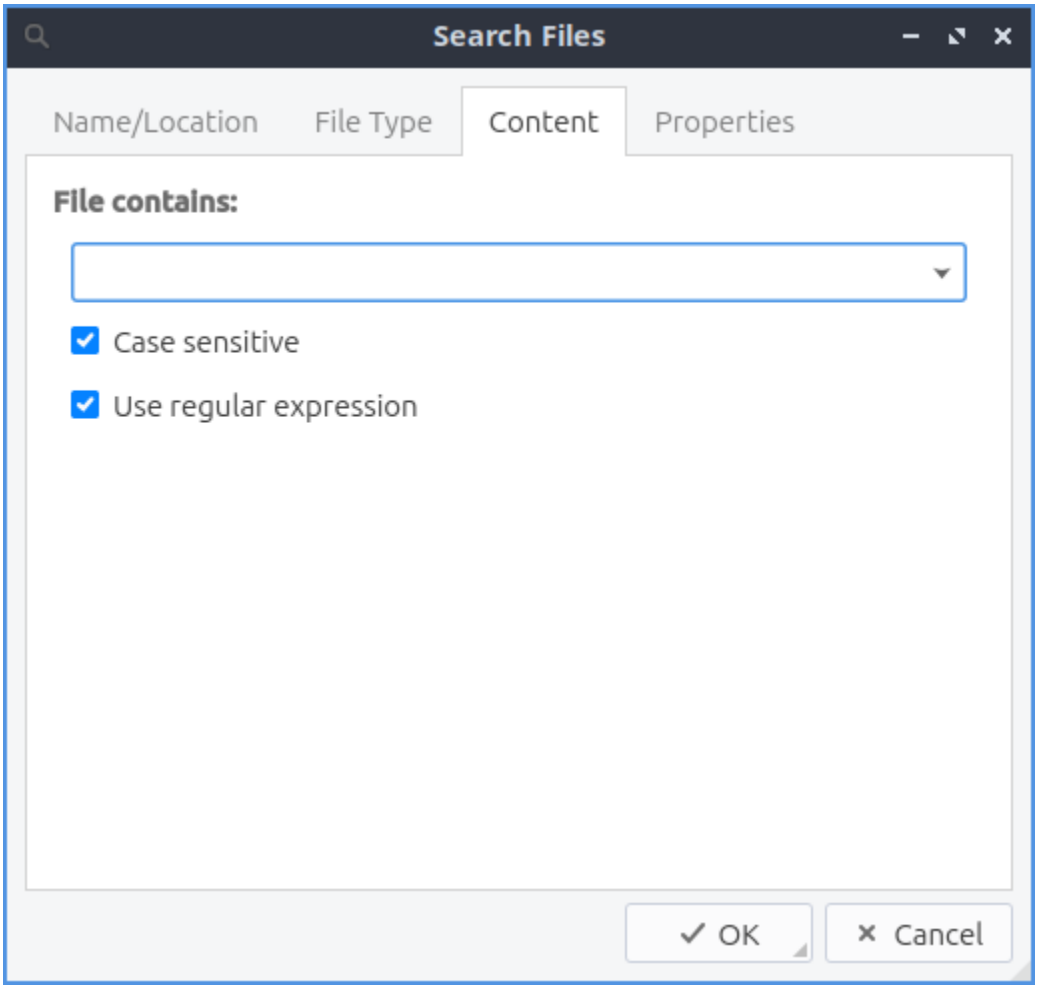
To search for files press `f3` or Tools ▸ Find Files. Type what you are searching for where it says File Name Patterns. To make your search case insensitive check the Case insensitive. To toggle searching with regular expressions check/uncheck the Use regular expression checkbox. To add locations and places to search press the Add button and select the additional places to search. To remove an additional place to search press the Remove button. To toggle searching in Subdirectories check/uncheck the Search in subdirectories checkbox. To toggle searching for hidden files check/uncheck the Search for hidden files. To close this window press `Escape`.



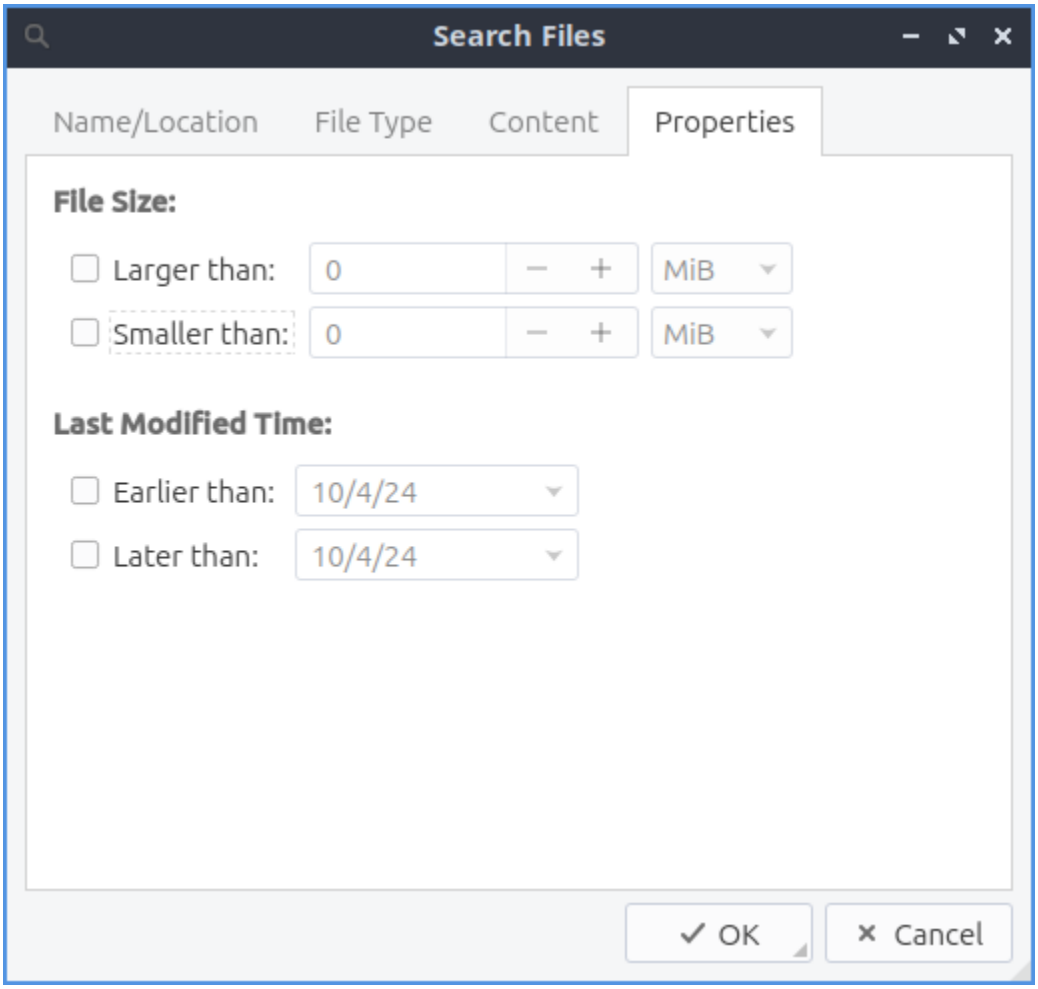
To change what types of files you use choose the File Type tab. To choose to search for only certain file check/uncheck the files under the heading Only search for files of following types:. The options for which type of file include: Text files, Image files, Audio files, Video files, Documents, or Folders.



To search for the actual content of the files you are searching for use the Content tab. To enter what you actually want to search for in your file in your File contains filed. To search caring whether it is uppercase or lowercase letters check the Case sensitive checkbox. To search with a regular expression check the Use regular expression checkbox.



The Properties tab has more settings based on information about the file also called metadata. To only show results on files larger than this file check the Larger than checkbox and then in the field to the right for size. To only show files smaller than this check the Smaller than checkbox and to the field to the right select the size smaller than that. To change the units for file size use the drop menu on the far right. To search for files modified before a date check the Earlier than checkbox and select the date to the right. To search for a file modified after a date check the Later than checkbox and input the date to the right.



Custom Actions

To create custom actions you will need to create the folder that is not on your filesystem by default run this command

```
mkdir -p ~/.local/share/file-manager/actions
```

or create this path by creating new directories in this file manager. Then you will need to make a desktop file to make your action. To make for example an open in terminal desktop run

```
touch ~/.local/share/file-manager/actions/open_in_terminal.desktop
```

to create the file. To edit this file run

```
featherpad ~/.local/share/file-manager/actions/open_in_terminal.desktop
```

from the command line to edit the file and paste in the following contents

```
[Desktop Entry]
Type=Action
Name=Open in terminal
```

(continues on next page)

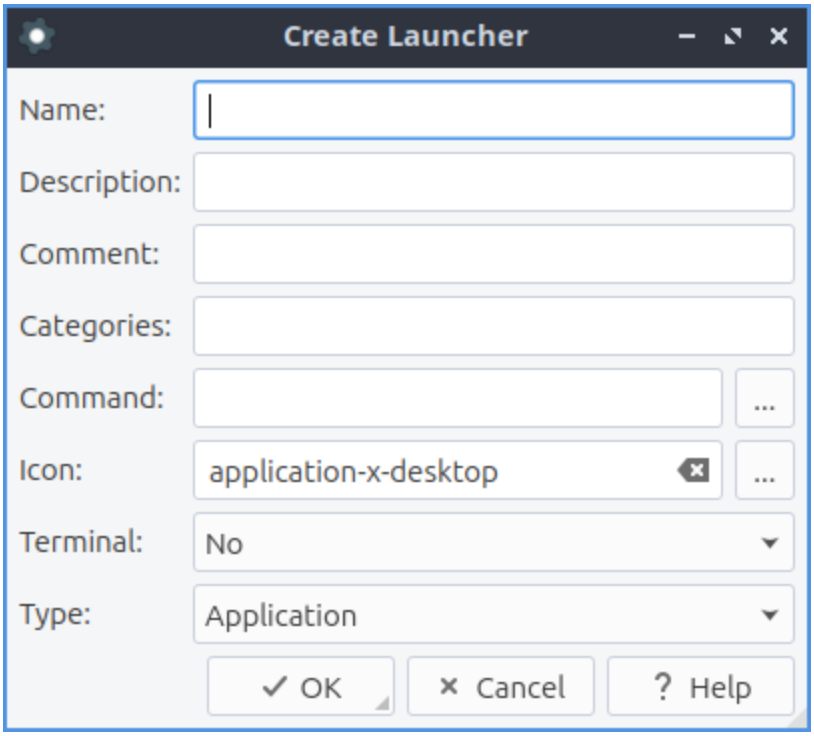
(continued from previous page)

```
Icon=utilities-terminal
Profiles=profile-zero;

[X-Action-Profile profile-zero]
Exec=qterminal -w %f
Name=Default profile
```

Creating Launchers

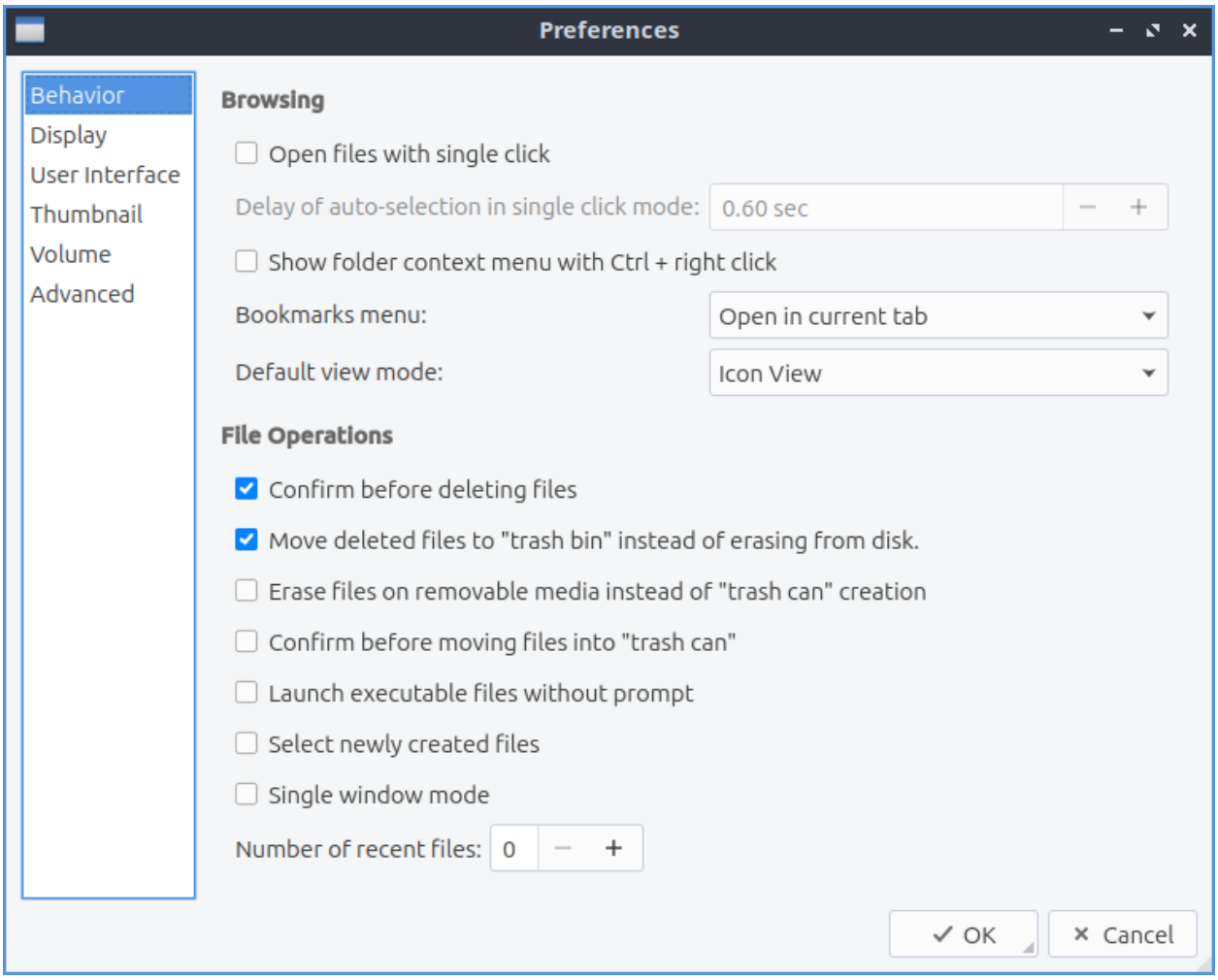
To create a file that will launch an application by clicking on it Tools ▸ Create Launcher and fill in the fields to create a file to launch programs. For what to call your launcher type it in the Name field. To add a description to your launcher enter a description in the Description field. To set up a comment for the launcher enter it in the Comment field. To change which categories in the menu this launcher shows up in enter them in the Categories field. To see what to actually launch from a command line command enter it in the Command field or press the … to bring a file picker to find what to execute. To change the icon for your launcher enter the name in the Icon field or choose one graphically with the … button. To change if you are running this in the terminal change the Terminal drop down. To switch between a link and an application choose the Type field.



Customizing

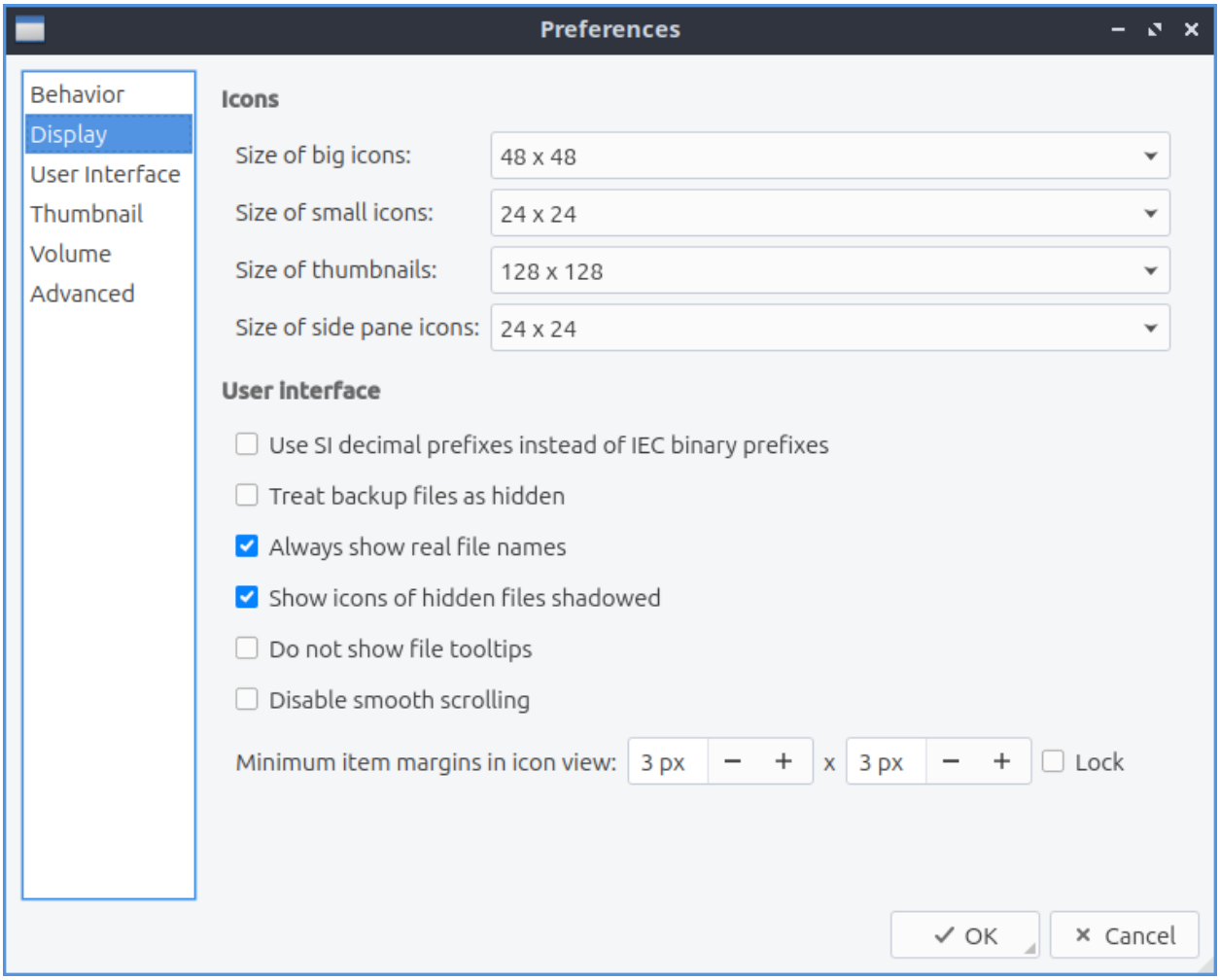
To open a dialog for preferences of PCManFM-Qt Edit ▸ Preferences. The Behavior tab has settings for how PCManFM-Qt manages files. The checkbox Open files with single click opens files by clicking on them once and you select files by mousing over them. To make the auto selection slightly delayed and to adjust this change Delay of auto-selection in single click mode field. To show a folder context menu when you `Control+ right click` check the Show folder context menu with Ctrl+ right click checkbox. The Bookmarks menu drop down menu has

options to either Open bookmarks in the current tab, Open bookmarks in a new tab, or Open bookmarks in a new window. To change what view mode PCManFM-Qt starts with change the Default view mode drop down menu. The Confirm before deleting files checkbox makes a confirmation dialog before deleting files. The checkbox Move deleted files to “trash bin” instead of erasing from disk puts files in the trash bin instead of always deleting them. The Erase files on removable media instead of “trash can” creation erases files on removable media instead of creating a trash can on the removable media. The checkbox Confirm before moving files into “trash can” brings a confirmation dialog before moving files to the trash can. The checkbox Launch executable files without prompt will run executable files without bringing up a prompt asking what to do with the file however you will need to restart PCManFM-Qt for this to take effect. To select new files automatically check the Select newly created files checkbox. To have PCManFM-Qt only open one window check the Single window mode checkbox. To change the number of recent files saved change Number of recent files field.

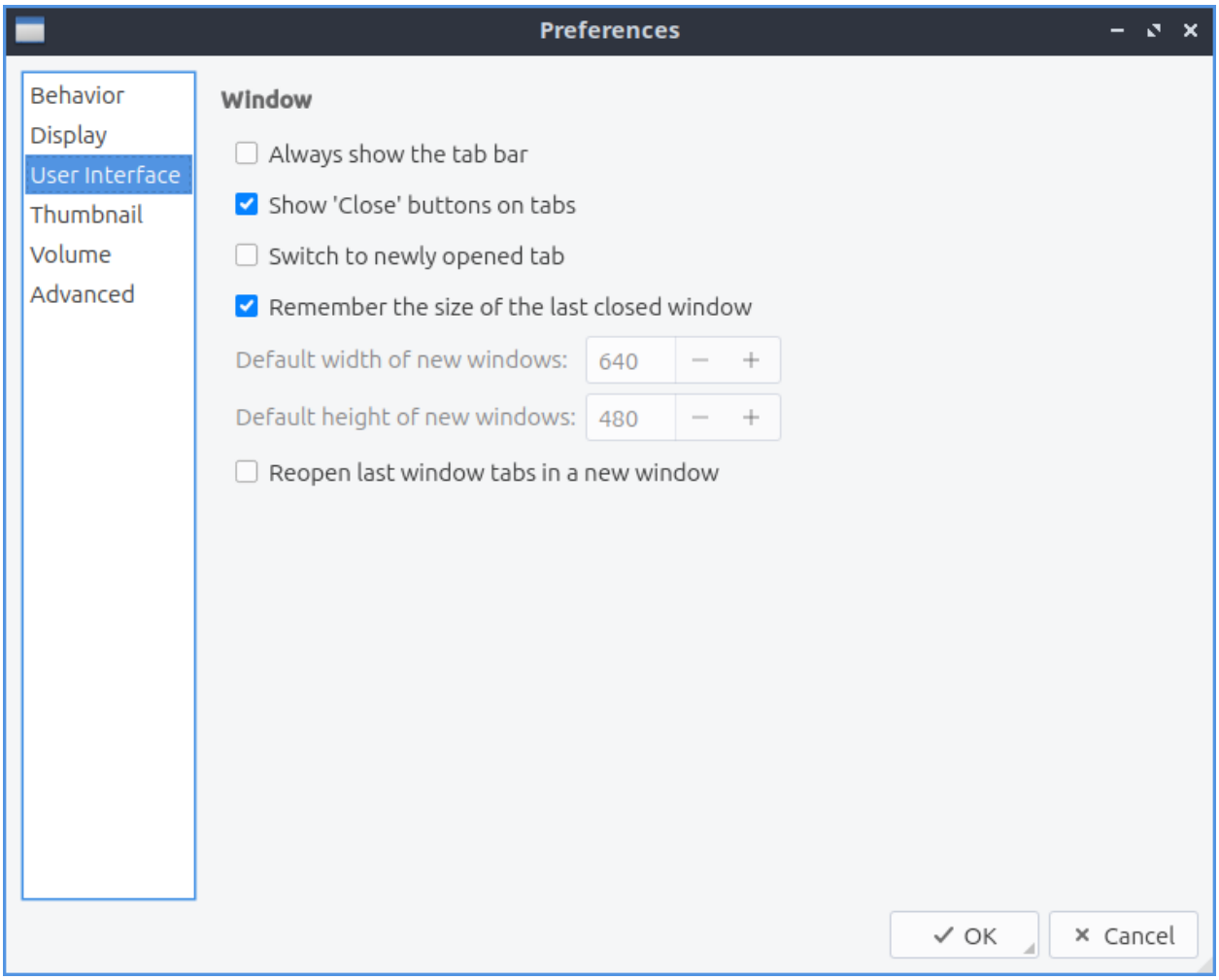


The Display tab allows you to change icon sizes, displaying file sizes, hiding backup files, and settings for margins. The Size of big icons drop down menu changes the size of big icons in PCManFM-Qt. The Size of small icons drop down menu changes the size of small icons for PCManFM-Qt. The Size of thumbnails drop down changes the size of thumbnails in PCManFM-Qt. The Size of side pane icons drop down changes the size of side pane icons. The checkbox Use SI decimal prefixes instead of IEC binary prefixes treats kilobytes, megabytes, and gigabytes as base 1000 instead of 1024. To toggle showing backup files as hidden check/uncheck the Treat backup files as hidden checkbox. To always show the entire file

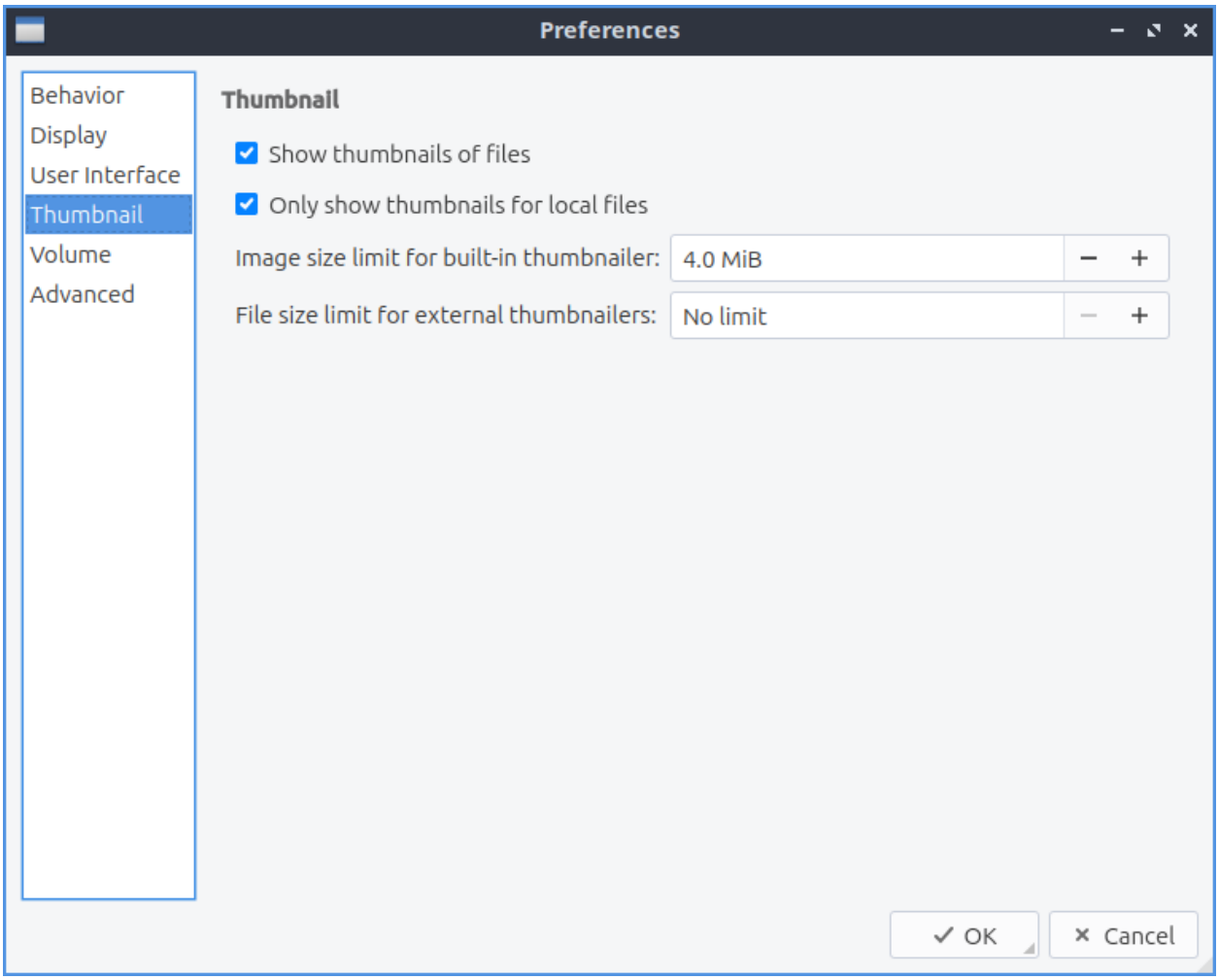
name check the Always show real file names checkbox. To show the icons of hidden files as shadowed to distinguish they are hidden files check the Show icons of hidden files shadowed checkbox. To disable tooltips check the Do not show file tooltips checkbox. To disable smooth scrolling in list and compact modes check the Disable smooth scrolling checkbox. To change the minimum margins in icon view for number of pixels change the numbers in Minimum item margins in icon view. To toggle making the margin a square check the Lock checkbox.



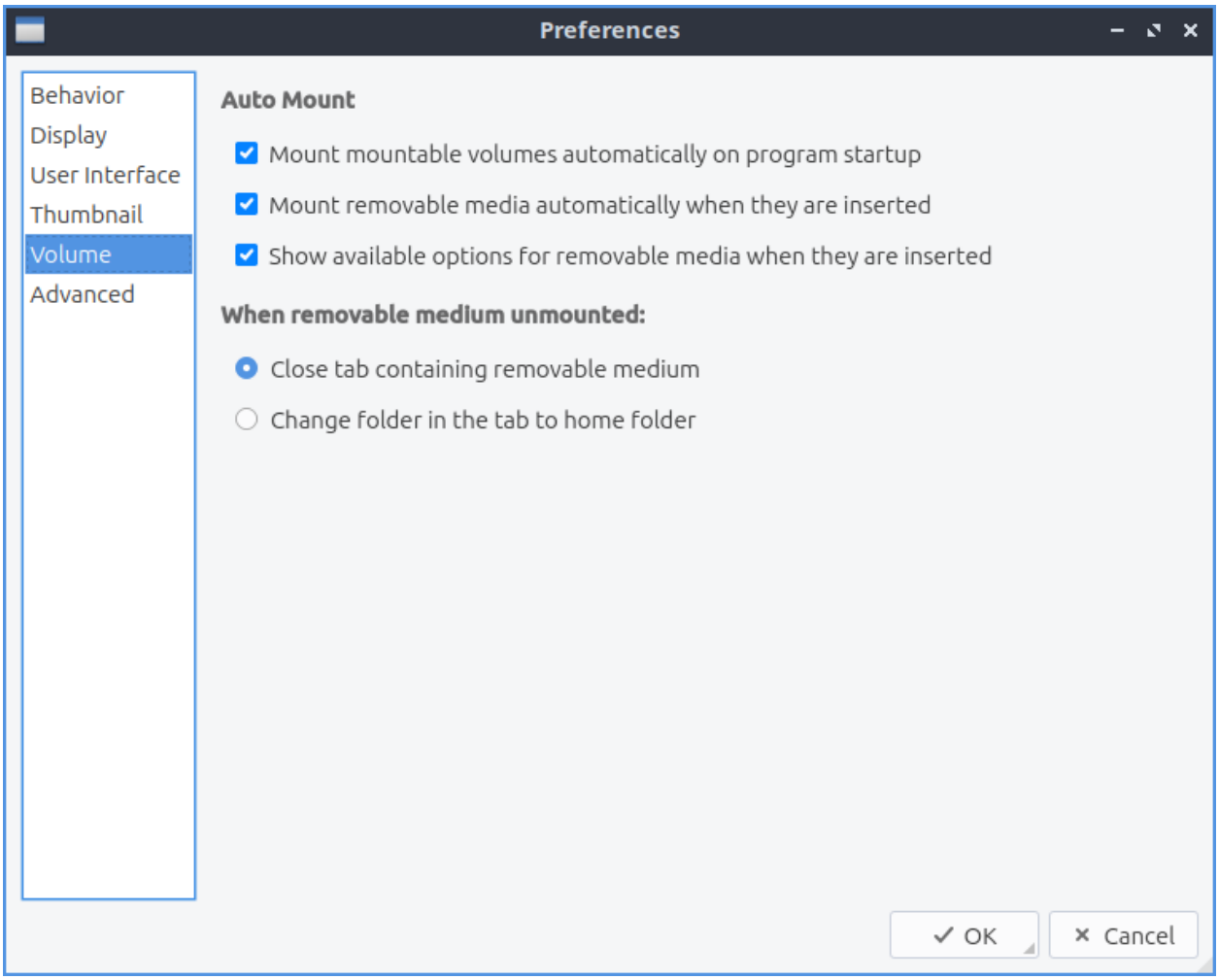
The User Interface tab changes how the PCManFM-Qt window appears. To toggle always showing the tabbar even when you have only one tab check/uncheck the Always show the tab bar checkbox. To toggle showing the x on each tab to close each tab check/uncheck the Show ‘Close’ buttons on tabs checkbox. To have PCManFM-Qt go to any new tab you open check the Switch to newly opened tab checkbox. To have PCManFM-Qt open the window in the same size as the last time you closed the window by checking/unchecking the Remember the size of the last closed window checkbox. If you have the Remember the size of the last closed window checkbox unchecked you can change the Default width of new Window or Default height of new windows fields. To use tabs from your last window in a new window check the Reopen last window tabs in a new window checkbox.



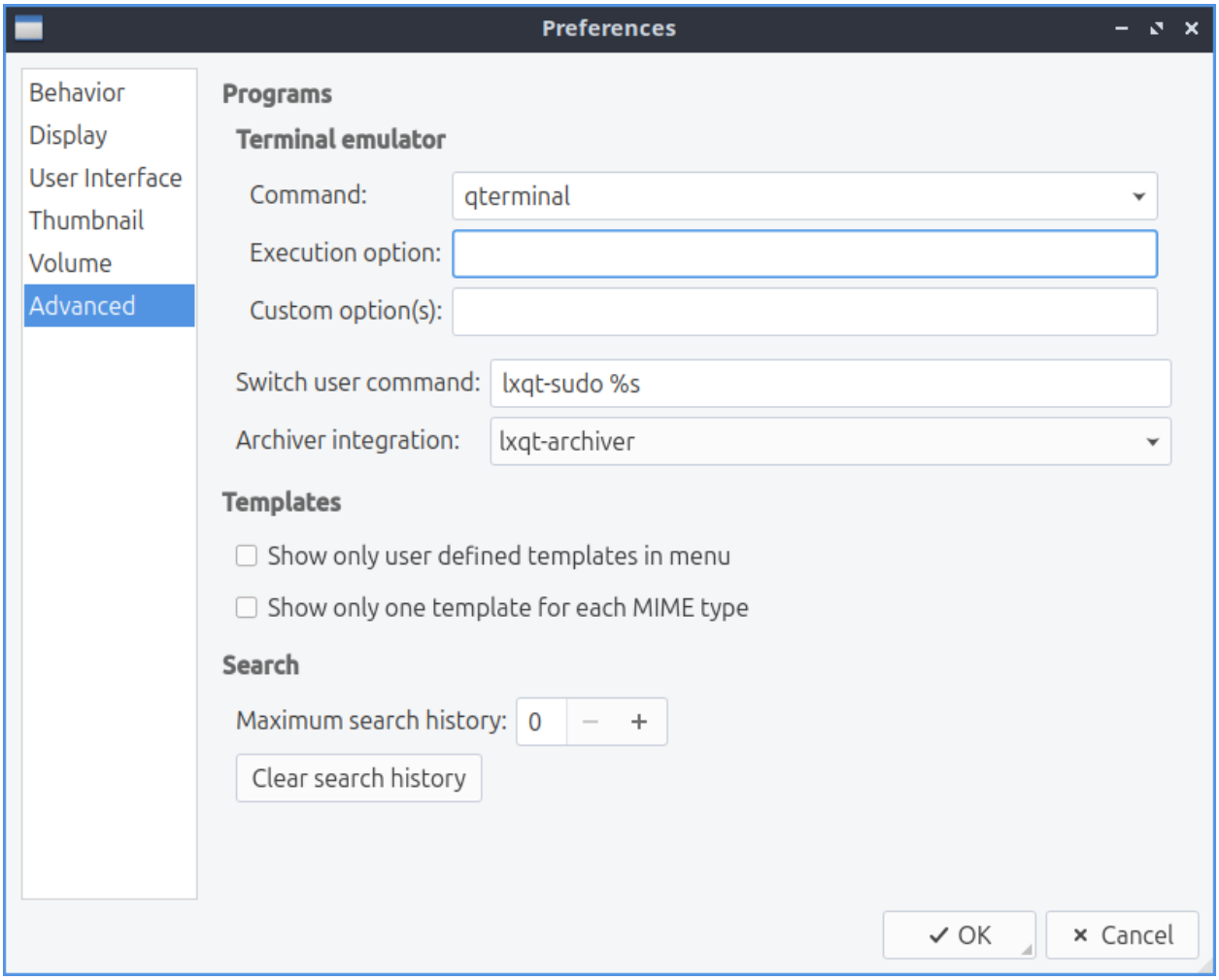
The tab Thumbnail tab has settings for thumbnails on files in PCManFM-Qt. To enable/disable thumbnails check/uncheck the Show thumbnails of files checkbox. If you want to only have thumbnails for local files not on another machine check Only show thumbnails for local files checkbox. Unchecking the previous checkbox will result in a slower performance to get the thumbnails for the files. To put an upper limit for built in thumbnails for PCManFM-Qt change the Image size limit for built in thumbnailer field. To have a limit for external thumbnails change the File size limit for external thumbnailers field.



The tab Volume tab manages flash drives, other partitions, external disks, and other external media. The Auto Mount section is settings for automatically mounting removable media. The Mount mountable volumes automatically on program startup mounts removable media when you start PCManFM-Qt. To automount removable media when you insert them into your computer check the Mount removable media automatically when they are inserted checkbox. To show a menu for removable media when inserted check/uncheck the Show available options for removable media when they are inserted checkbox. To choose when you unmount a removable volume you can choose to Close tab containing removable medium or Change folder in the tab to home folder.



The Advanced tab shows integration with other programs and advanced settings. To change your default terminal emulator from PCManFM-Qt preferences drop down change the Terminal emulator drop down menu. To change what options to launch the terminal with use the Execution option field. PCManFM-Qt To change what PCManFM-Qt uses to change users to open things as root type that in the Switch user command field. To change your Archiver integration change the Archiver integration drop down. To keep a list of search history change Maximum Search history field to a the positive number of history items you want to keep. To clear your search history left click the Clear search history button.



Version

Lubuntu currently ships with 2.4.0 of PCManFM-Qt.

How to Launch

To open PCManFM-Qt in your current directory (in terminal), execute in the command line

```
pcmanfm-qt
```

Feel free to append [lxqt-sudo] to run PCManFM-Qt as root.

You can also go to the Applications menu Accessories ▸ PCManFM-Qt File Manager. The icon for PCManFM-Qt looks like a file cabinet drawer with files in it at the top. PCManFM-Qt is also in the quick launch and can be launched by left clicking on the file cabinet icon in the quick launch.

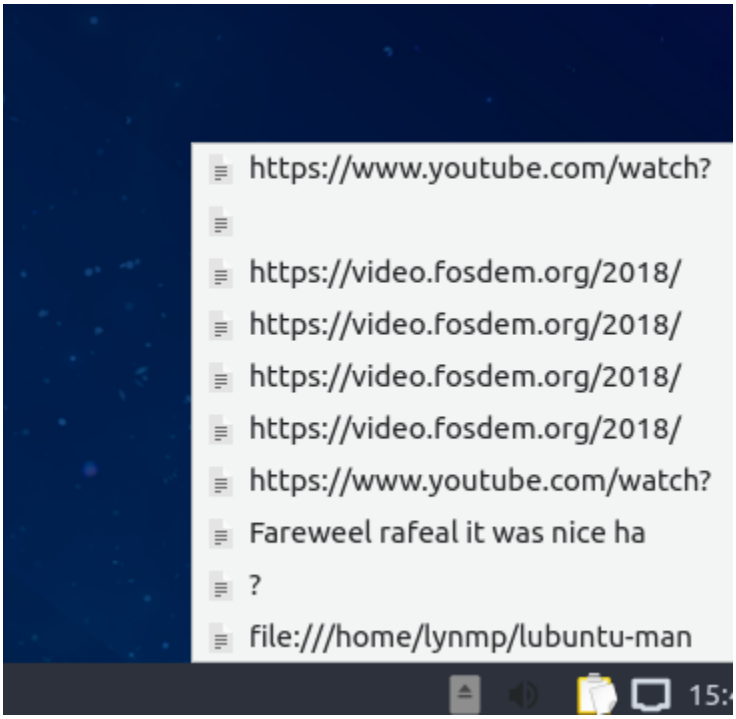
Chapter 2.4.5 Qlipper

Qlipper is the default clipboard manager for Lubuntu.

Usage

Qlipper is a clipboard manager automatically started in the system tray. The tray icon for Qlipper looks like a clipboard. To view your clipboard history left click on the tray icon that looks like a clipboard or press `Control+Alt+V`. Then you will likely want to paste what you have selected in another window. To make your item from your history the selected one left click on the item of your history in the menu. To clear your clipboard history like if you copied a password you can right click on the clipboard tray icon and select Clear clipboard history. If you temporarily want your clipboard history not to be saved or shown you can close Qlipper by right clicking on the clipboard icon and selecting Quit.

Screenshot

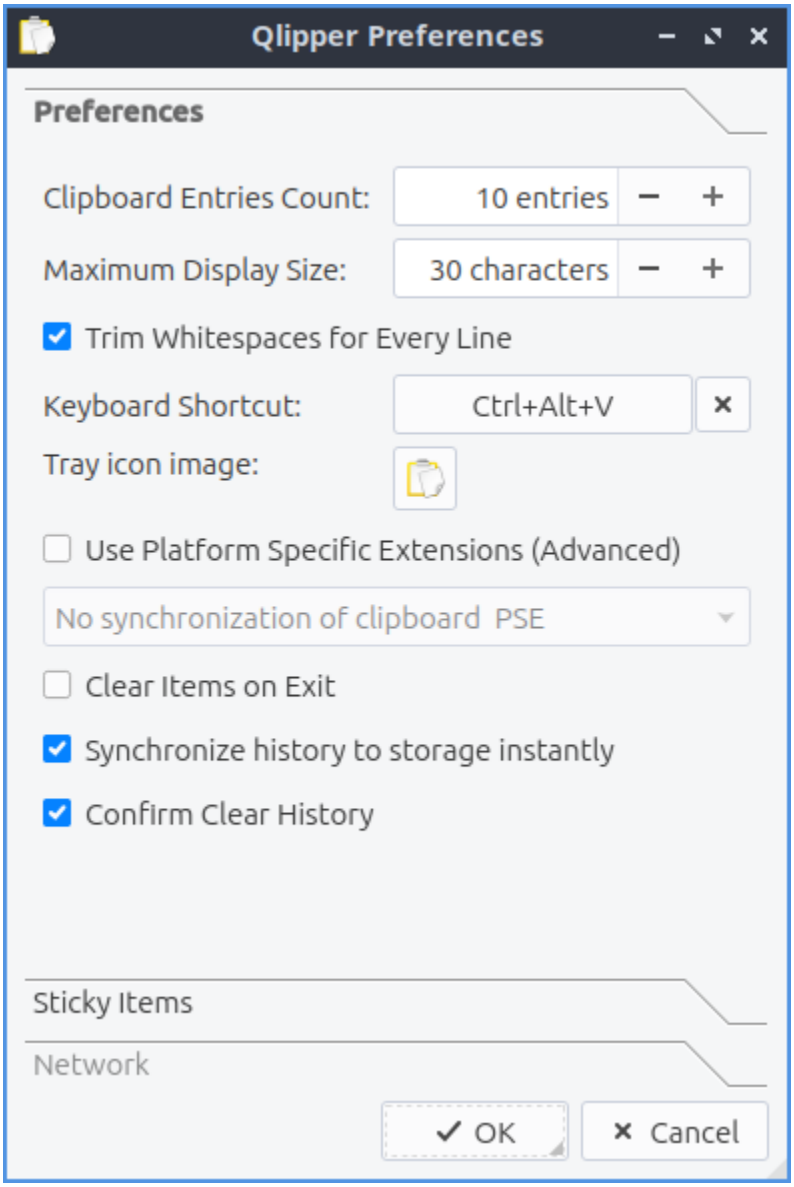


Customizing

To change preferences of Qlipper right click on the tray icon and select Configure. To change how many items get displayed in Qlipper in total right click on Qlipper and configure with the gear icon and change Clipboard Entries Count to your desired number of entries. To change how many characters Qlipper shows from the configuration screen change Maximum Display Size. To not have whitespace after pasting each line check the Trim Whitespaces for Every Line checkbox. To change your keyboard shortcut to bring up the menu from Qlipper use the Keyboard Shortcut button. To clear this keyboard shortcut press the x button to the right. To change the tray icon image to something custom press the button next to Tray icon image which has an option to load a custom tray icon.

To synchronize your clipboard and selection clipboards check the Use Platform Specific Extensions(Advanced) checkbox first. To toggle having your clipboard saved to storage as soon as

possible check/uncheck the Synchronize history to storage instantly checkbox. To have Qlipper lose its stored history when you close Qlipper check the Clear Items on Exit checkbox. Next to have two separate clipboard synchronized select the No synchronization of clipboard & PSE menu item. To select an item and have uniform clipboard select Synchronize clipboard & PSE instantly. To have Qlipper save the history instantly check the Synchronize history to storage instantly checkbox. To need to confirm before deleting all of your clipboard history check the Confirm Clear History checkbox.



The Sticky Items divider stores things you want to always have in Qlipper to quickly paste. This icon will bring up a dialog where you navigate to where your new icon will be. To add a new stick item press the Add button and type or paste what you want always available. To remove a sticky item press the Remove button. To move a sticky item up in the list press the Up button. To move a sticky item down in the list press the Down button.

Version

Lubuntu ships with version 5.1.2 of Qlipper.

How to Launch

By default Qlipper should autostart and should be on the bottom right of your panel. If you need to get it running and it is not go to the menu Accessories ▸ Qlipper. To launch it from the command line run

```
qlipper
```

The icon for Qlipper looks like a white piece of paper with a few lines of writing in different columns.

Chapter 2.4.6 nobleNote

nobleNote is the default application to take a notes on Lubuntu. nobleNote also automatically saves whatever you enter into a note.

Usage

To start a new note right click on the right hand column and select New note, press the white piece of paper with a green plus button, press `Control+Shift+N`, or Edit ▸ New note. Then enter a title for this note by typing it. To open a note double click on that note from the right hand column which will open a new window with your note in it. To input text in the note type in the main body of this window after clicking on it. To rename your note to something, right click on the name of the note Rename note, press `Control+Shift+R`, press abc button on white paper, or Edit ▸ Rename note.

To type text into a note type on the bottom of the window.

To select a different notebook to keep your notes organized click on it on the left hand column. If you wish to delete a notebook right click on a notebook and Delete notebook, with the notebook highlighted press `Control + D`, or Edit ▸ Delete notebook. To add a new notebook press `Control+N` or Edit ▸ New notebook.

To delete a note click on the note and press the yellow paper button with a red X on it, press `Control + Shift + D`, or edit Edit ▸ Delete note.

To get back a note you deleted press `Control+T` or File ▸ Trash. You can then see your deleted notes and select from deleted notes on the left hand column and then the content of the note on the right hand column. To restore a note press the Restore button. To permanently delete a note press the Delete button and then press Yes at the confirmation dialog.

To import notes from a file File ▸ Import.

To search through your notes for a particular string enter what you want to search for in the search bar which says Type to search for notes.

If you make a mistake typing and want to undo your changes press `Control + z` or Edit ▸ Undo. If you wish to paste text into nobleNote press `Control + v` or Edit ▸ Paste. To copy text from your note press `Control+C` or right click and select Copy. To select all text in a note press `Control +A`.

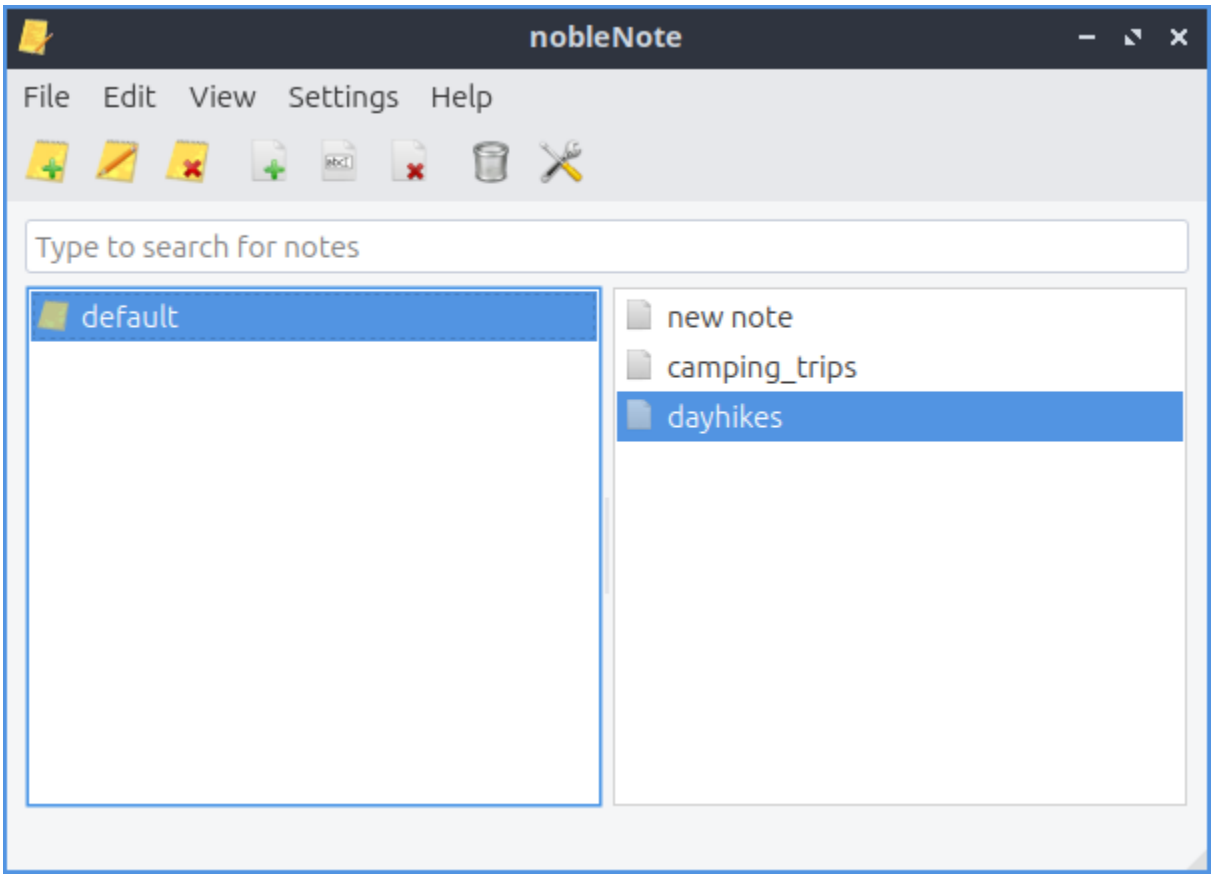
To toggle showing the toolbar press `Control +Shift +T` or View ▸ Show toolbar.

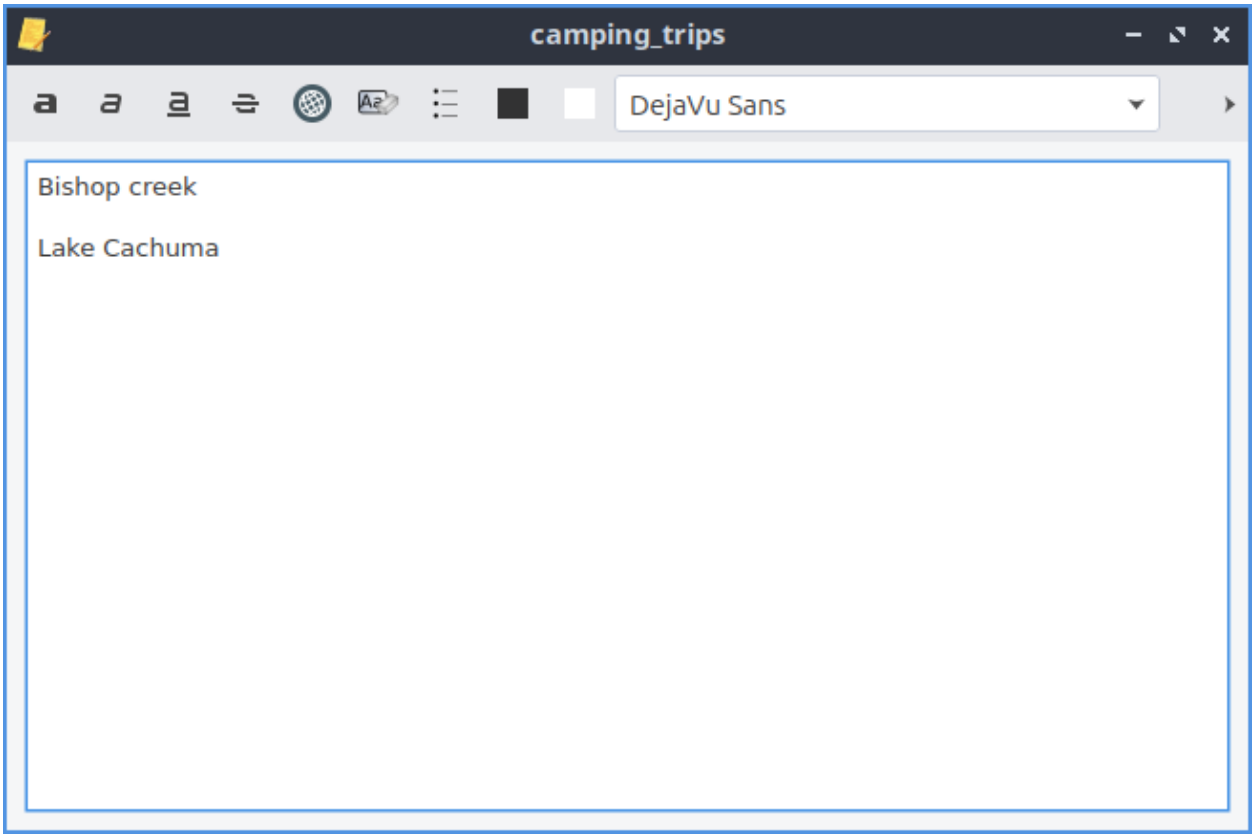
To bring back up your note nobleNote will leave a notebook icon in the system tray on the lower right hand corner of the panel. To bring the notes backup after closing them left click on the tray icon. To hide the main window right click on the tray icon and select Minimize. To bring back the main menu right click and select Restore. To fully close nobleNote right click on the tray icon Quit or press `Control+Q`.

To search a note for something type into the bar to find something in your note. To go to your next result press the Find next button. To find the previous result press the Find previous button. To change your font first press the > button and then select your font from the drop down on the left. To change your font size of your notes first press the >> button and then select your font size from the drop down to the right. To hide searching for something press the X button to the far left. To make a case sensitive search press the > and check the Case sensitive checkbox.

To make the text on your note bold press `Control+B` or the **a** button. To make your text on your note italic press `Control+I` or the a button. To underline your text press my underlined a button. To clear all formatting press the Aa button. To add a bullet point list press the button that looks like a bullet point list. To insert a hyperlink press `Control+K` or press the button looking like a globe. Then type or paste your link in the Address field and press the OK button. To change your font color for your notes press left click the color square to the left. To highlight your text first select the text and then press the square to the right and choose the color you want. To strike things out press the button with the line through it. To make bullet points in a list press the button with bullet points and a horizontal line.

Screenshots





Version

Lubuntu ships with version 1.4.0 of nobleNote.

How to Launch

To launch nobleNote go to the menu Accessories ▸ nobleNote or run

```
noblenote
```

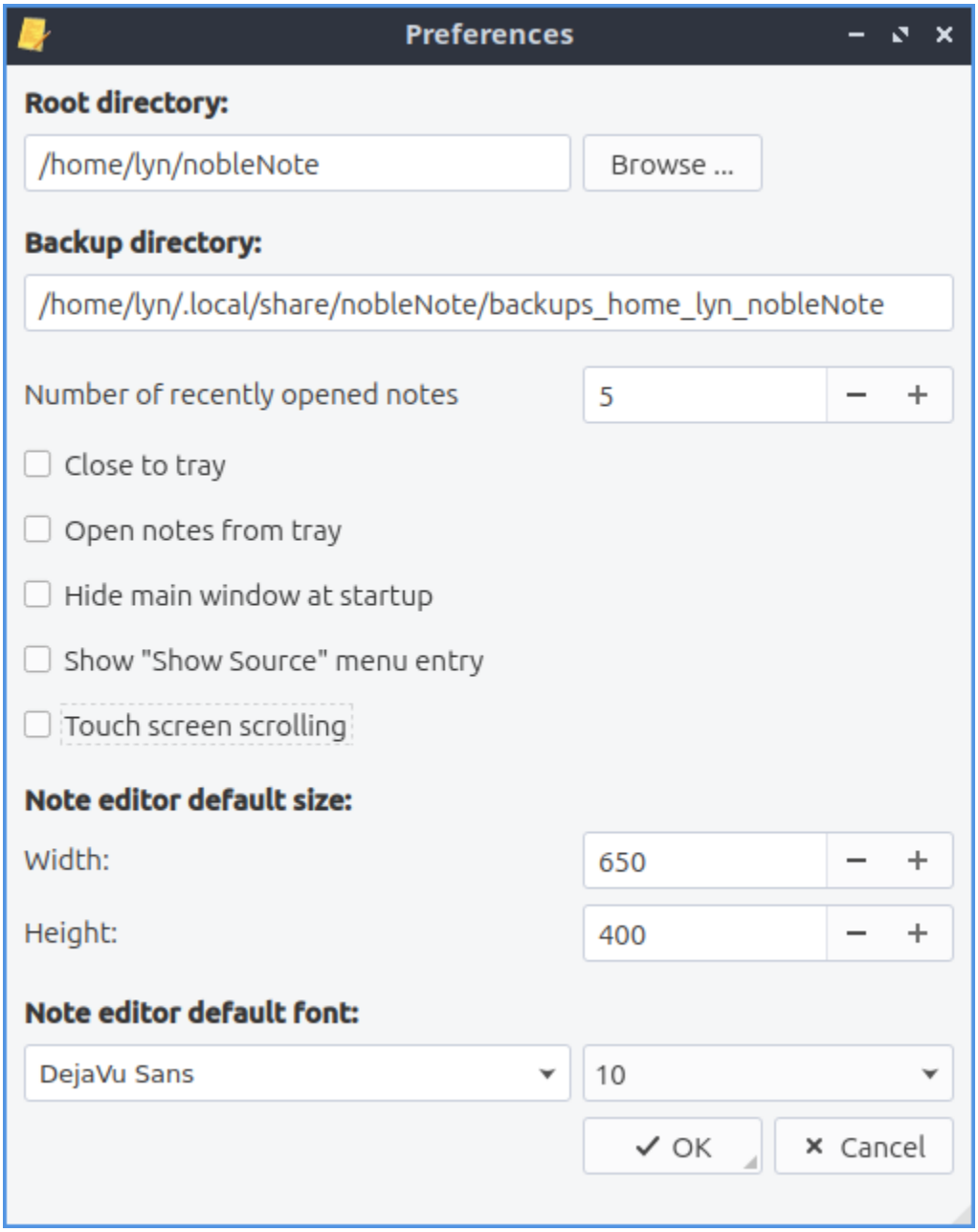
on the commandline. The icon for nobleNote looks like a yellow pad of paper with a black lines.

Customizing

To change preferences of nobleNote press `Control +P` or Settings ▸ Configure. To change how many recent notes nobleNote keeps change the Number of recently opened notes field. To keep nobleNote in your system tray after you close the nobleNote window check/uncheck the Close to tray checkbox. To open notes from the system tray check the Open notes from tray checkbox. To hide the main window when you open nobleNote check the Hide main window at startup. If you want to toggle the menu entry to show source check/uncheck the Show “Show source” menu entry. To reverse the direction of scrolling in nobleNote check the touch screen scrolling checkbox.

To change how wide to make the default for the new note editor Width field to how big to make the editor for the note. To change how high to make the editor size change the Height field. To change what the default font would be for editing is the large bar to the left under

Note editor default font. To change the font size change the number next to the name of your font.



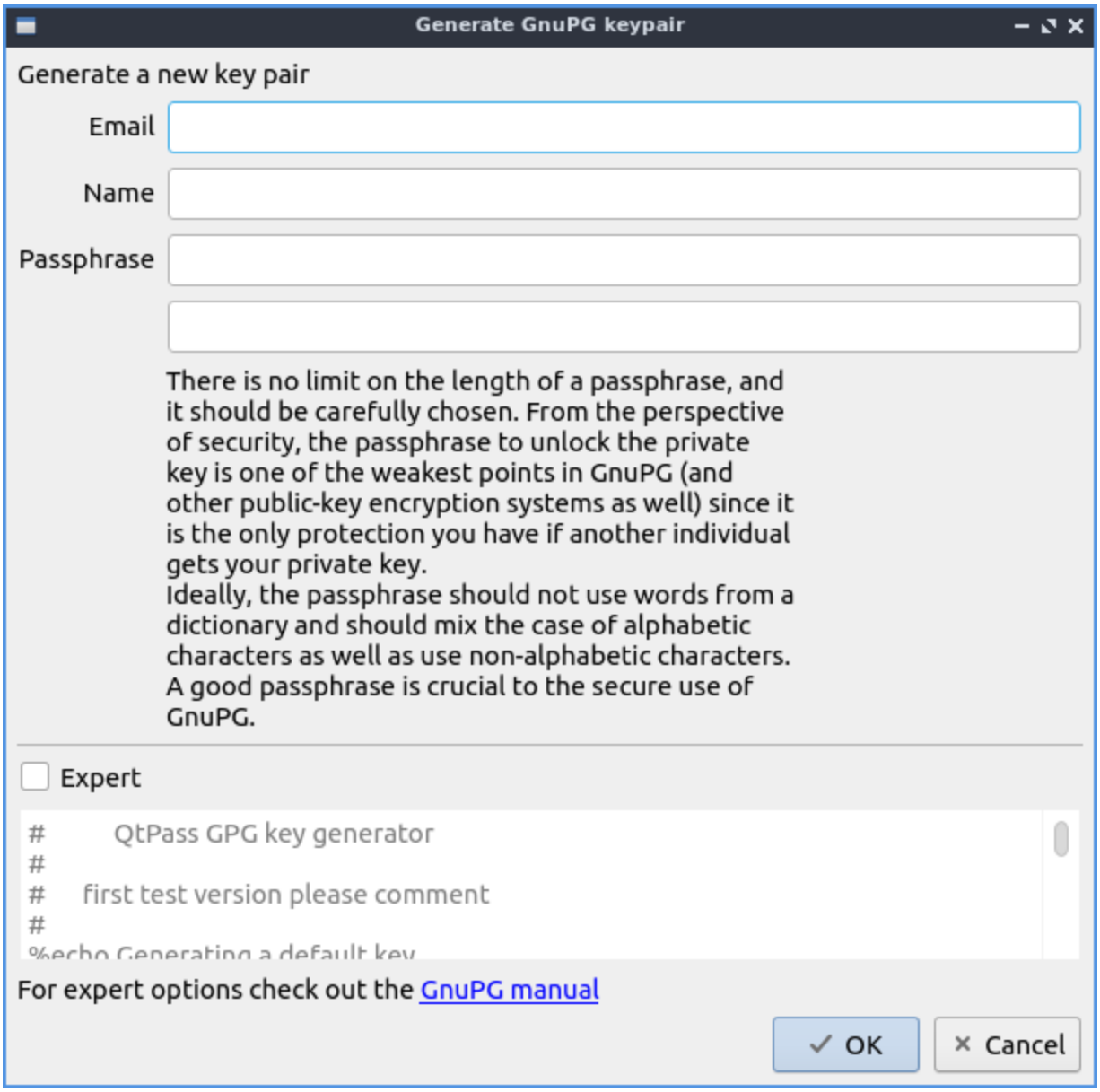
Chapter 2.4.7 QtPass

QtPass is the default password manager for Lubuntu.

Usage

On first launch you will be asked to generate a key to encrypt your passwords. The first field to generate the encryption key is to enter your email in the Email field. Next enter your name in the Name field. The next field is you need is the password twice in the Passphrase field twice to make sure you do not make a typo. To create the encryption key press the OK button.

After this it will generate a keypair but this will take a while.



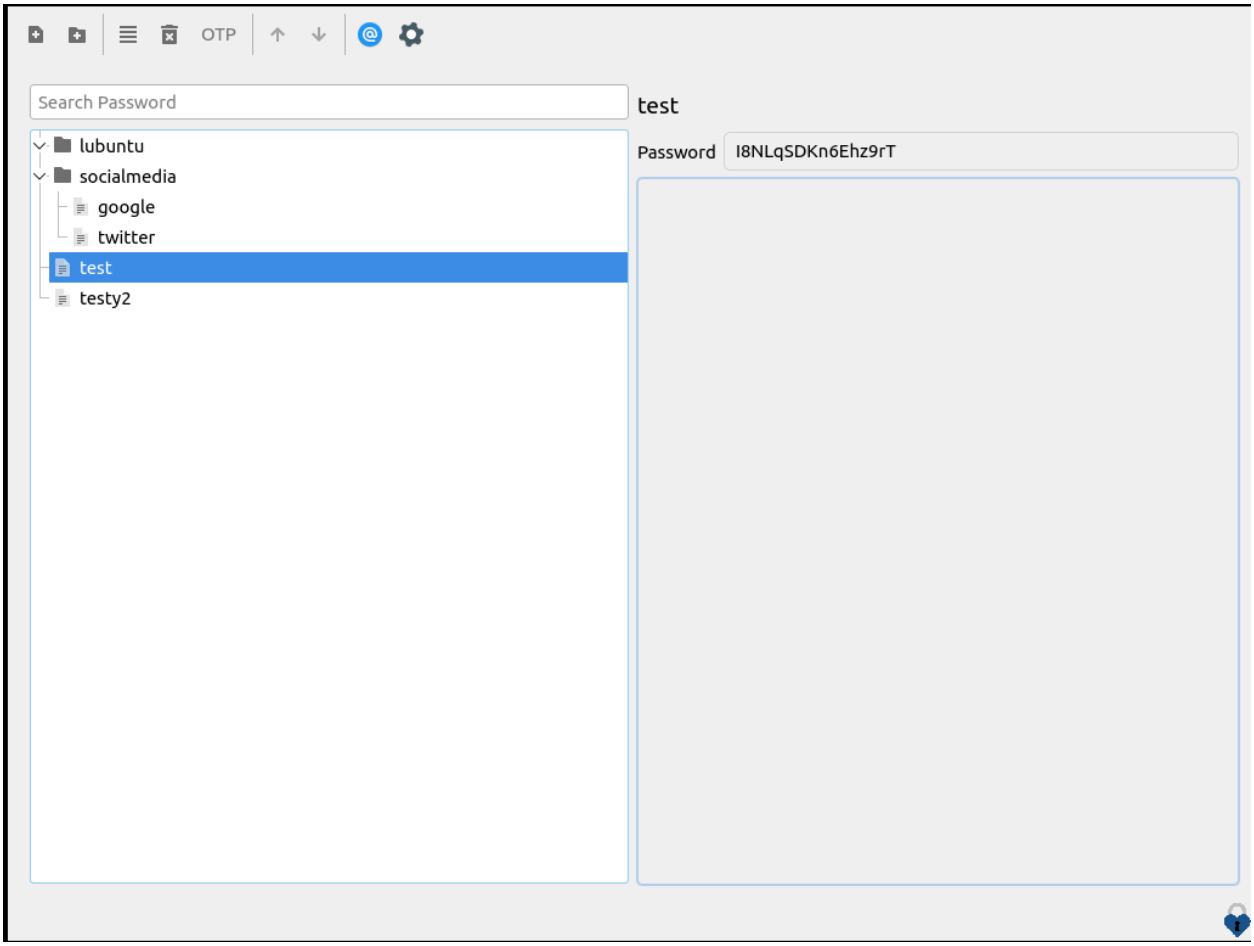
To actually store a password press the button that looks like a piece of paper with a + button. Enter the name of the file to store your password in New password file and press the OK button. To type in your password for an already existing password type it in the Password field. To show your password that you have check the Show password checkbox. To randomly generate a password press the Generate button. To change the length of the generated password change the Length field.

To get the password out of a the password manager you will need to enter your encryption key passphrase in the Password field.

To add a folder to put passwords in press the folder button with a + on it. To get an existing password into a folder left click and drag that password into the folder on the main list. To add a password to a folder right click on the folder and select Add password.

To search for a particular password type the password you are searching for in the Search

Password text box at the top. To end up looking at your password simply left click on it in the list of passwords on the left column of the window and read it in Password on the right column.



To Edit a password left click on 4 horizontal lines button.To make a new random password press the Generate button. To change the length of a randomly generated password change the Length field. To enter a new password with the keyboard type in the top left of the window. To type a description of your password type in the bottom field. To save changes to your password press the OK button and then enter your encryption passphrase to encrypt the passwords.

To delete a password you do not use anymore right click on it and select Delete or press the trash can button with an X button.

To manage what users can read these passwords press the @ button.

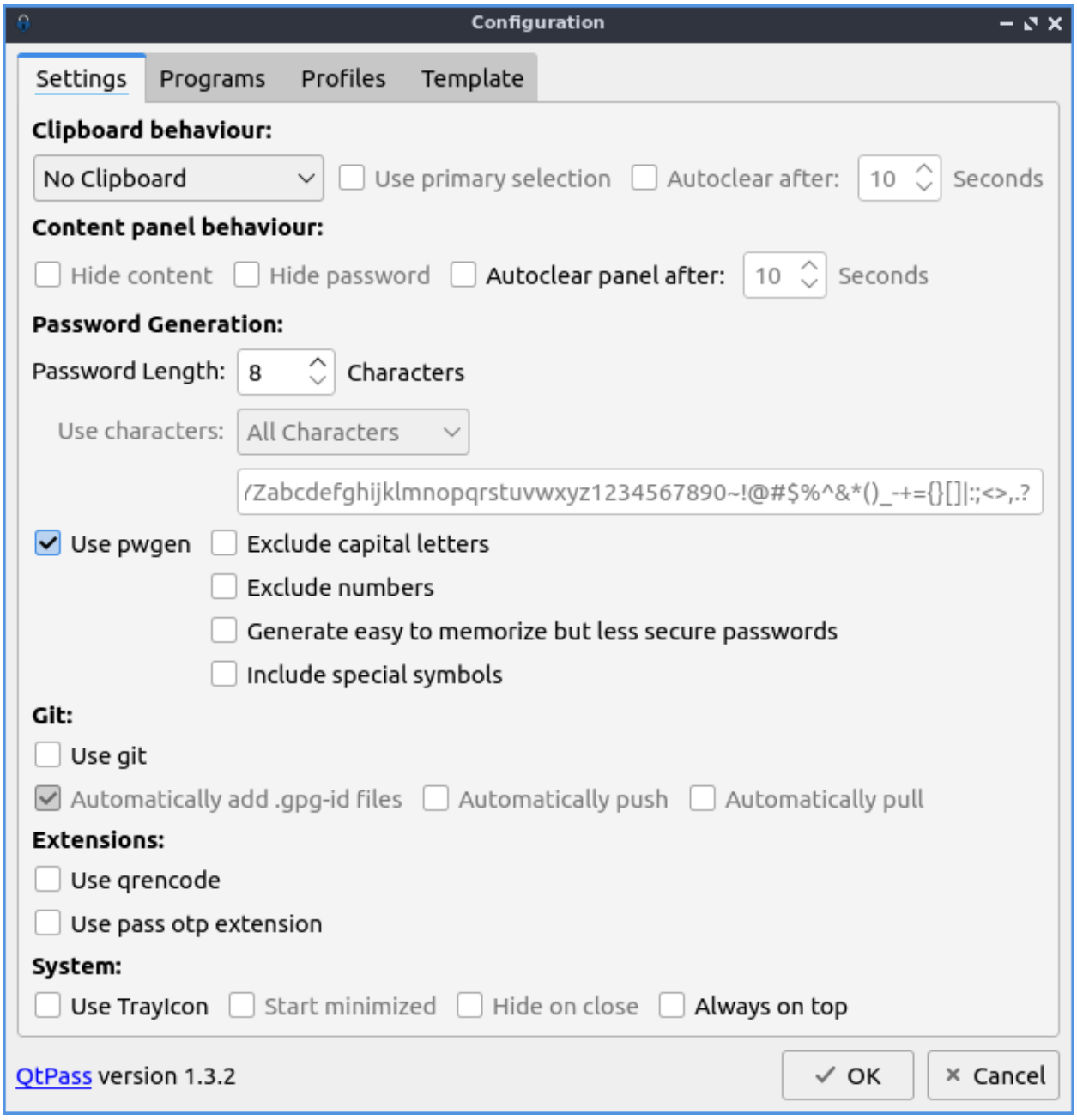
To rename a password right click on it and select Rename password.

Customizing

To change your settings for QtPass press the Gear Button. To change if QtPass will copy passwords change the drop down under the Clipboard behavior drop down. To copy the password into primary selection check the Use primary selection checkbox. To have your password cleared from your clipboard after a while to not accidentally paste it anywhere check the Autoclear after checkbox and select how long in the field in the right. To hide everything on the right when you click on your password press the Hide content checkbox. To

have the password hidden when you click on a password check the Hide password checkbox. To have the panel automatically clear itself check the Autoclear panel after checkbox and change how long on the right.

To change how long to make generated passwords change the Password Length field. To change what characters to use use the Use characters drop down message. To use a custom set of characters type in what characters in the Use characters and type in what characters you want to use. To toggle using the pwgen command line program check/uncheck the Use pwgen checkbox. To have autogenerated passwords not have capital letters check the Exclude capital letters checkbox. To have your generated passwords not have numbers check the Exclude numbers checkbox. To generate easier to memorize passwords check the Generate easy to memorize but less secure passwords checkbox. To have generated passwords include special symbols check the Include special symbols checkbox.



To use a tray icon for QtPass check the Use Trayicon checkbox. To start QtPass minimized check the Start minimized checkbox. To have the tray icon hidden when you close QtPass check the Hide on Close checkbox. To have QtPass be always on top check the Always on top checkbox.

To change profile settings on QtPass use the Profile tab. To create a new profile press the Add button.

Version

Lubuntu ships with version 1.4.0 of QtPass.

How to Launch

To launch QtPass from the menu run Accessories ▸ QtPass or from the command line run

```
qtpass
```

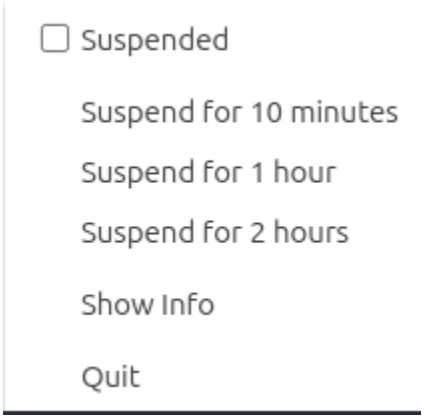
Chapter 2.4.8 Redshift

Redhsift allows you to change your color temperature and have your color temperature change on time of day

Usage

Redshift works by changing the color to be reder to reduce eye strain at night. To achive this Redshift uses geolocation to find when the sun rises and sets and thus works best when connected to the internet. To suspend using Redshift right click on the the tray icon that looks like a light bulb and check the Suspended checkbox or left click on the tray icon. If redshift is suspended the tray icon will appear grayed out and will be a brighter white if Redshift is active. To reactivate redshift left click on the tray icon again or right click and uncheck the Suspended checkbox. To quit Redshift right click the tray icon and select Quit.

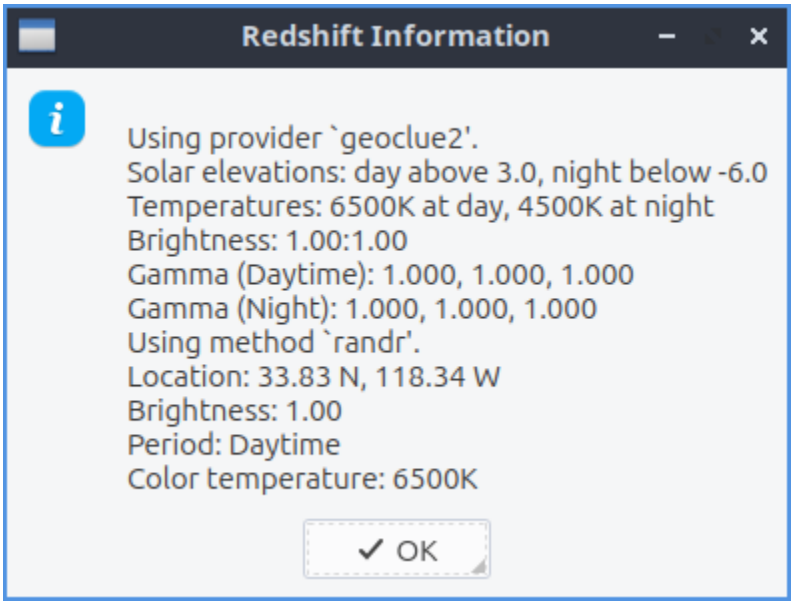
To suspend Redshift for an amount of time by right clicking on the tray icon. To suspend Redshift for 10 minutes right click on the tray icon and select Suspend for 10 minutes. To suspend Redshift for 1 hour right click and select Suspend for 1 hour. To suspend Redshift for 2 hours right click and select Suspend for 2 hours.



Note

If you are using Lubuntu to make art or other things that depend on color it it is recommended to suspend Redshift to not have the colors based off something different from how it appears on your monitor.

To read information about your settings for color temperature and your location left click on the light bulb tray icon and select Show info. To see what color temperatures at day and night read the Temperatures field. To view the longitude and latitude Redshift is using read the Location field. To see your current brightness read the Brightness field. To see what what the current color temperature your display is using read the Color temperature field.



To view info on how to change more settings like a manual location setting or changing the color temperature more or less read the redshift man page. To view this manpage run

```
man redshift
```

from the command line.

Version

Lubuntu ships with version 0.6.4 of Redshift

How to Launch

To launch Redshift Accessories ▸ Redshift or run

```
redshift-qt
```

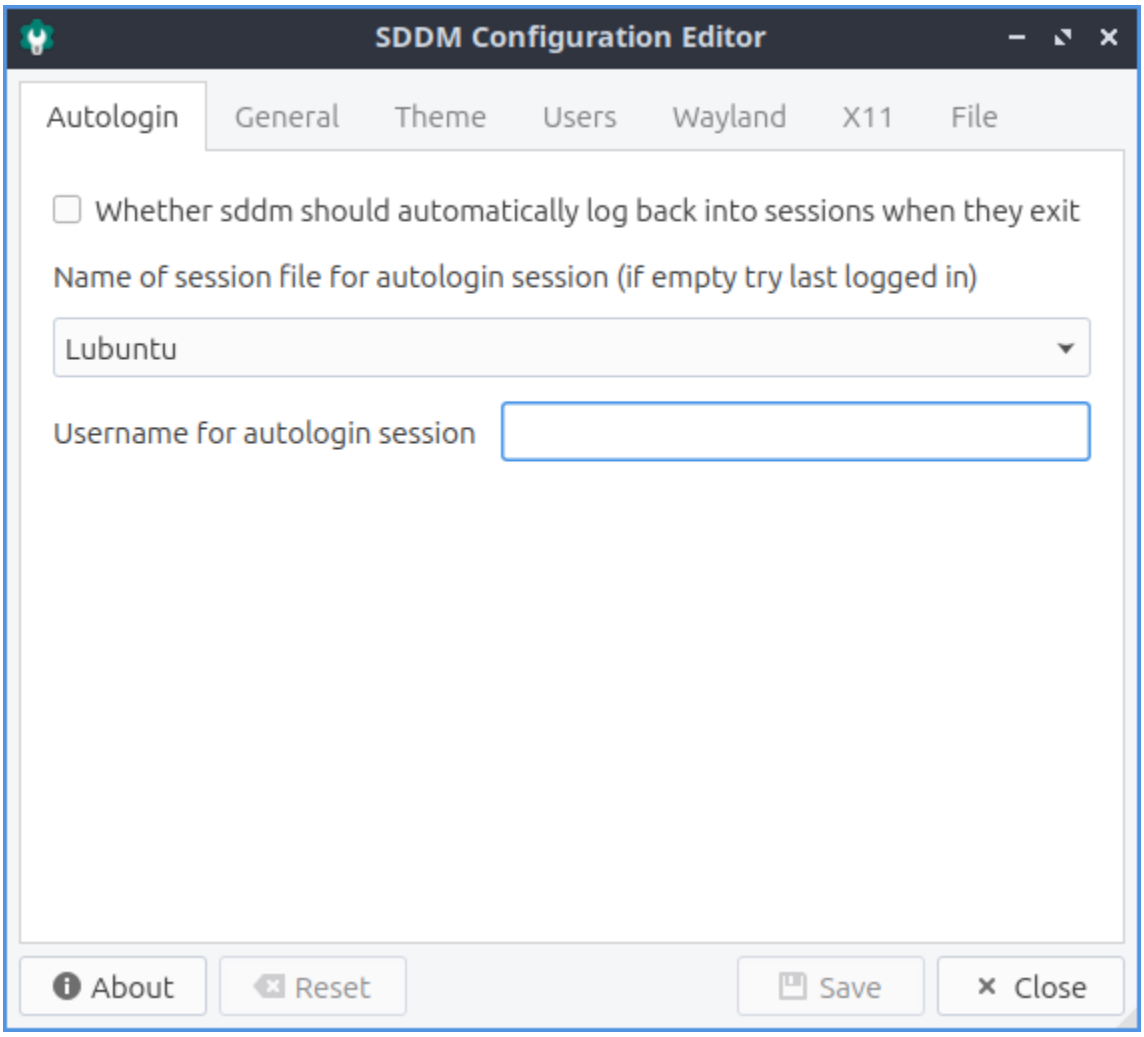
from the command line.

Chapter 2.4.9 SDDM-Configuration

SDDM Configuration lets you customize the screen when you log in to Lubuntu.

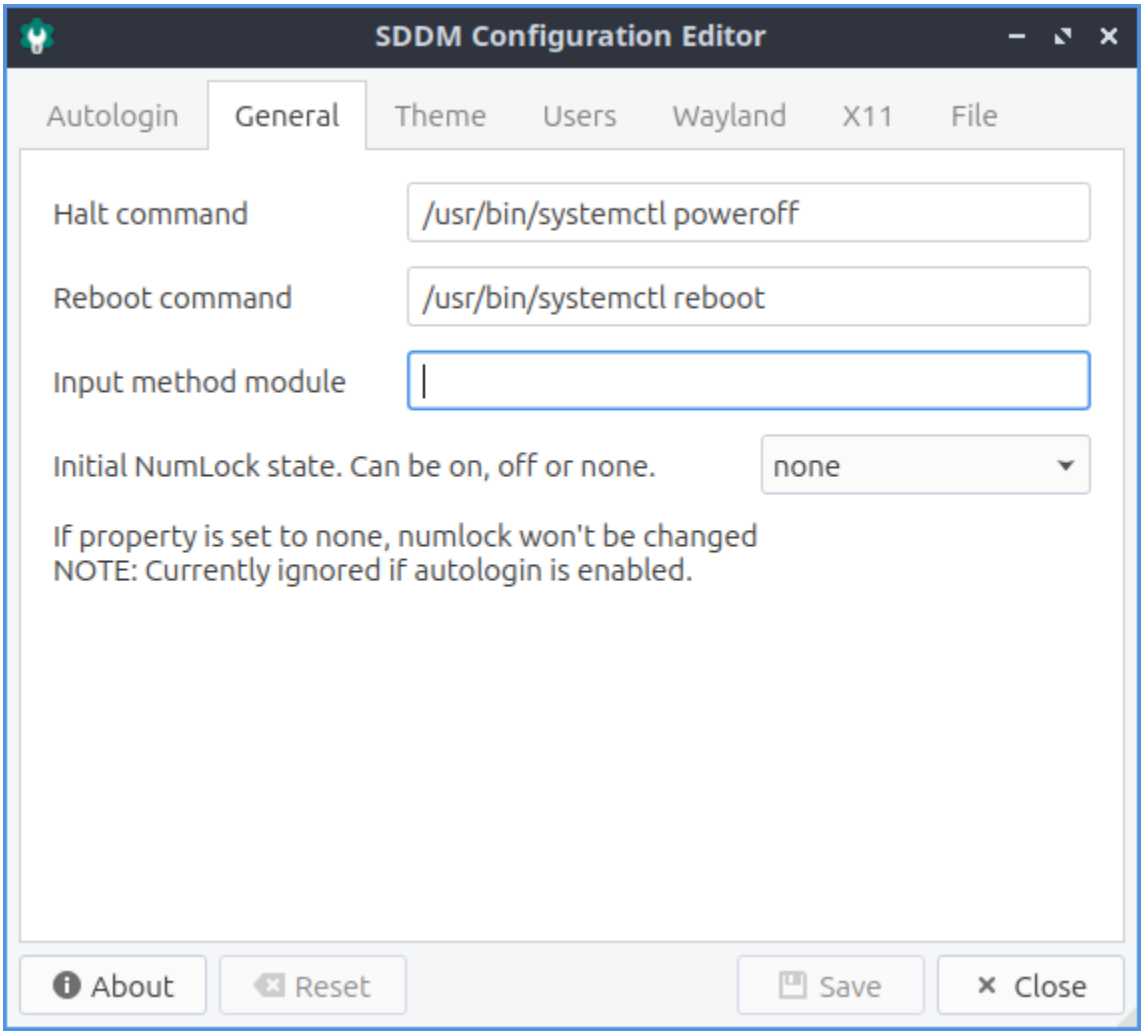
Usage

To change SDDM settings with autologin use the Autologin tab. To have SDDM log back in after a session exists check the Whether sddm should automatically log back into sessions when they exit. To change which session to automatically log into use the Name of session file for autologin session drop down. To choose which user to autologin as use the Username for autologin session field.



To save your changes for SDDM-Configuration use the Save button. After pressing the Save button you will need to enter your password as this changes the login screen for all users. To undo your changes press the Reset button.

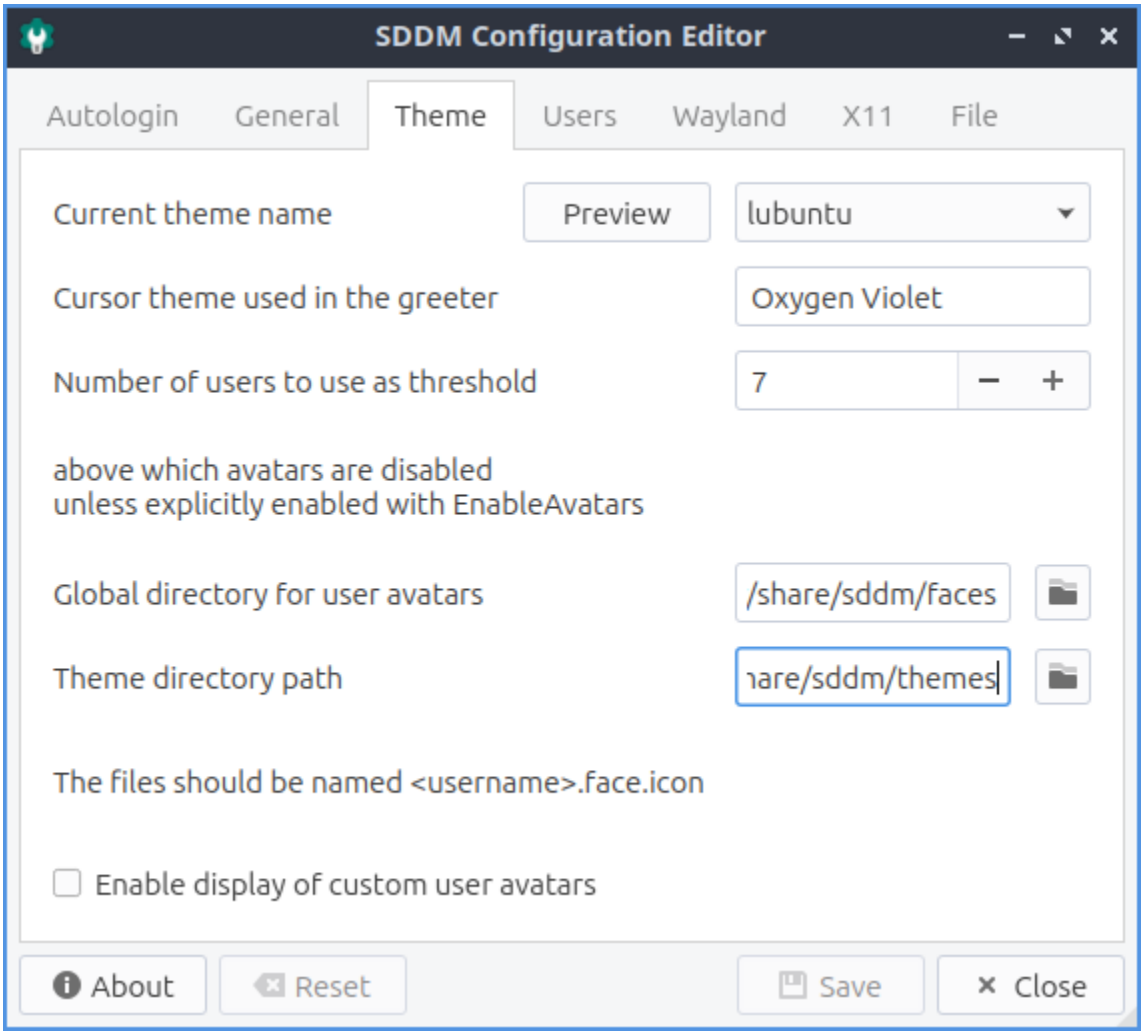
The General tab has settings for turning off, rebooting, and keyboard input. To change what command to shut down your system use the Halt command field. To change what command to restart your system use the Reboot command field. To choose an input method module like an onscreen keyboard to be selectable on your login screen enter it in the Input method module screen. To not have an onscreen keyboard make this field empty. To change which state numlock is in when you login use the Initial Numlock state drop down.



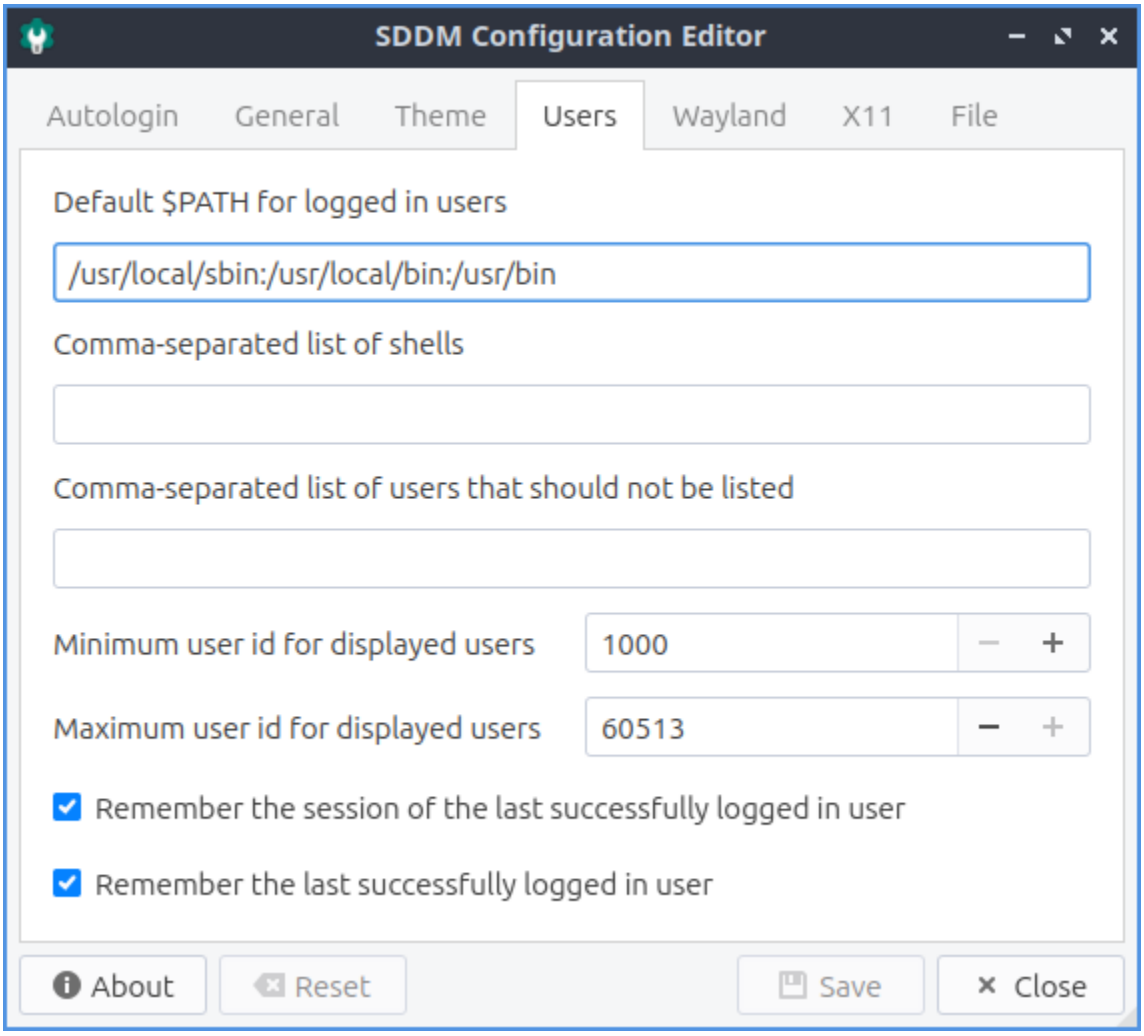
The Theme tab has settings for your theming SDDM. To change your theme name change the current Current theme name drop down. To get more themes install packages with sddm-theme in the name. To preview your theme press the Preview button. To close your theme preview press the Close Preview button. If there are errors in the preview they will show on the bottom right corner. To choose a cursor theme for SDDM use the Cursor theme used in the greeter field. The name to type in is the name of the cursor you want you can preview in the Appearance application documented in chapter 3.2.2. To change where to look for SDDM themes use the Theme directory path field. To use custom user avatars check the Enable display of custom user avatars checkbox. To change where to look for user avatar faces use change the Global directory for user avatars field. To save a user avatar first it must be a png image then to display the avatar it must be in the path of Global directory for user avatars field. If you save your user avatar in a place sddm can save it in /usr/share/sddm/faces otherwise you will need to give sddm access to the file. To give sddm access to an avatar file in your home folder run

```
setfacl -m u:sddm:x /home/yourusername; setfacl -m u:sddm:r /home/
↪yourusername/.face.icon
```

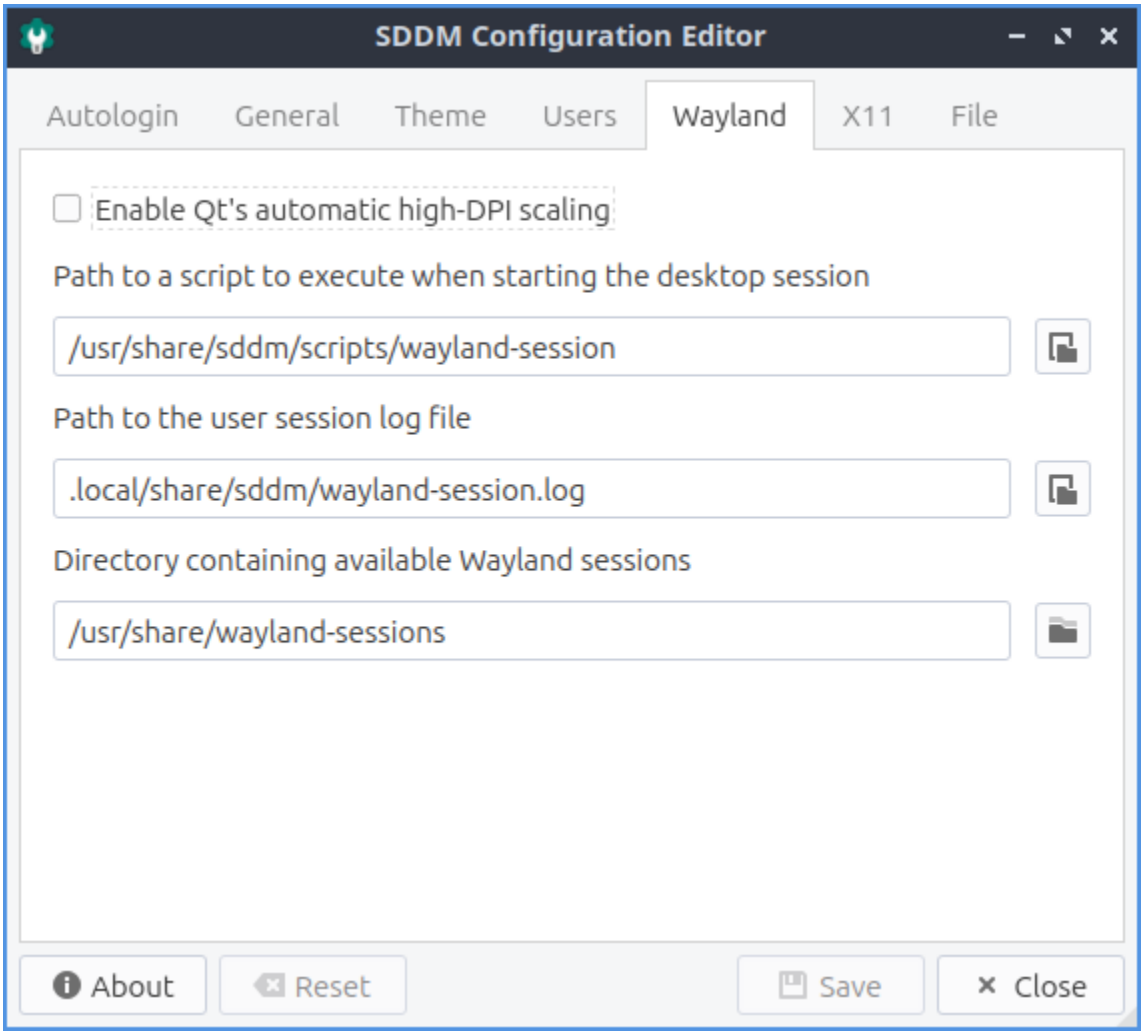
if you were setting face file in /home/yourusername and giving sddm read access to /home/yourusername/.face.icon and letting sddm into the /home/yourusename directory.



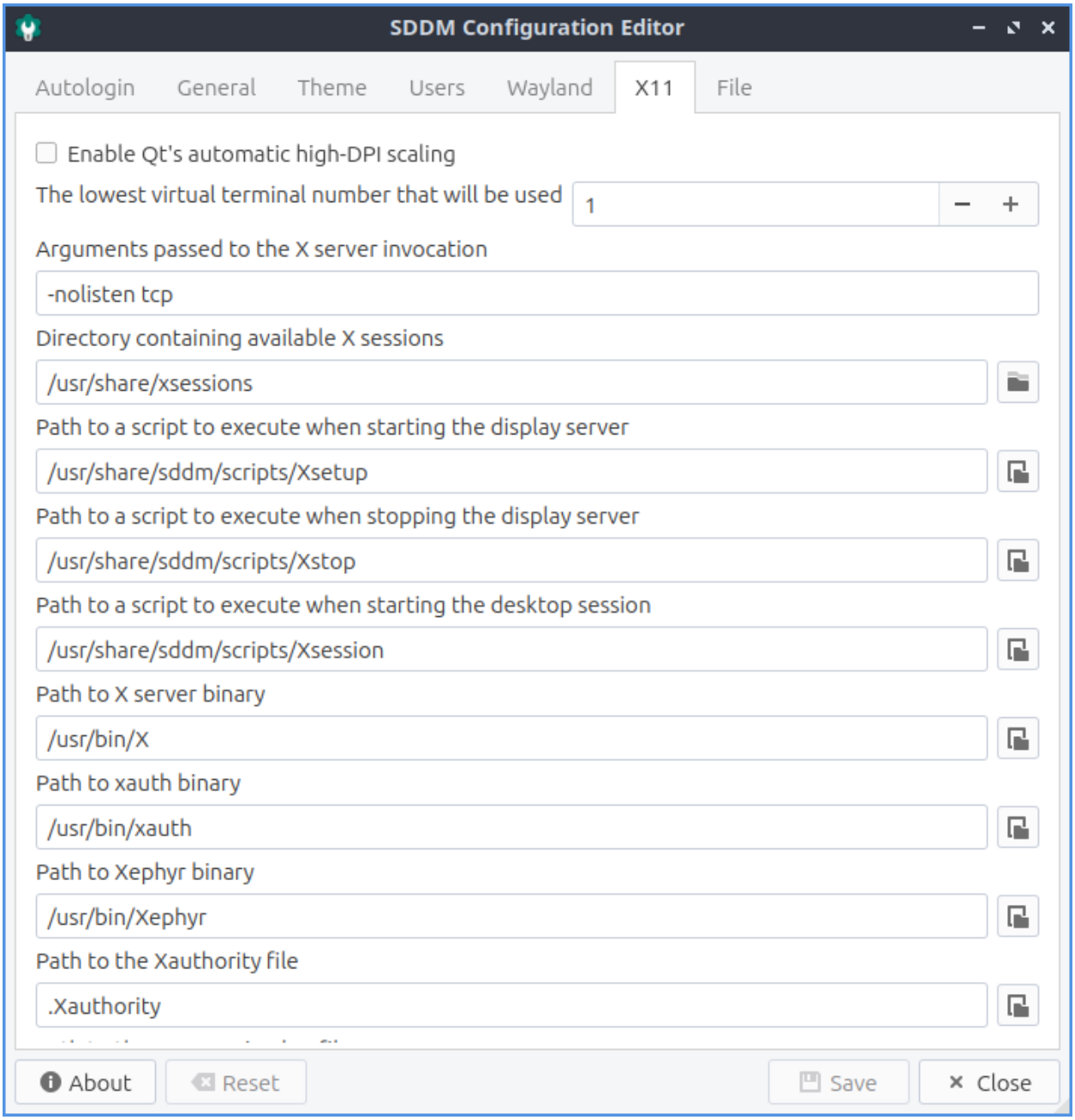
To change settings on which which Users log in use the Users tab. To not have a user show up to be able to be logged in use the Comma-separated list of users that should not be listed field. To choose the minimum user id for users you can log in as change the Minimum user id for displayed users field. To change the largest user id to log in as change the Maximum user id for displayed users field. To remember who logged in last check the Remember the session of the last logged in user checkbox. To remember what session you logged into last check the Remember the last successfully logged in user checkbox.



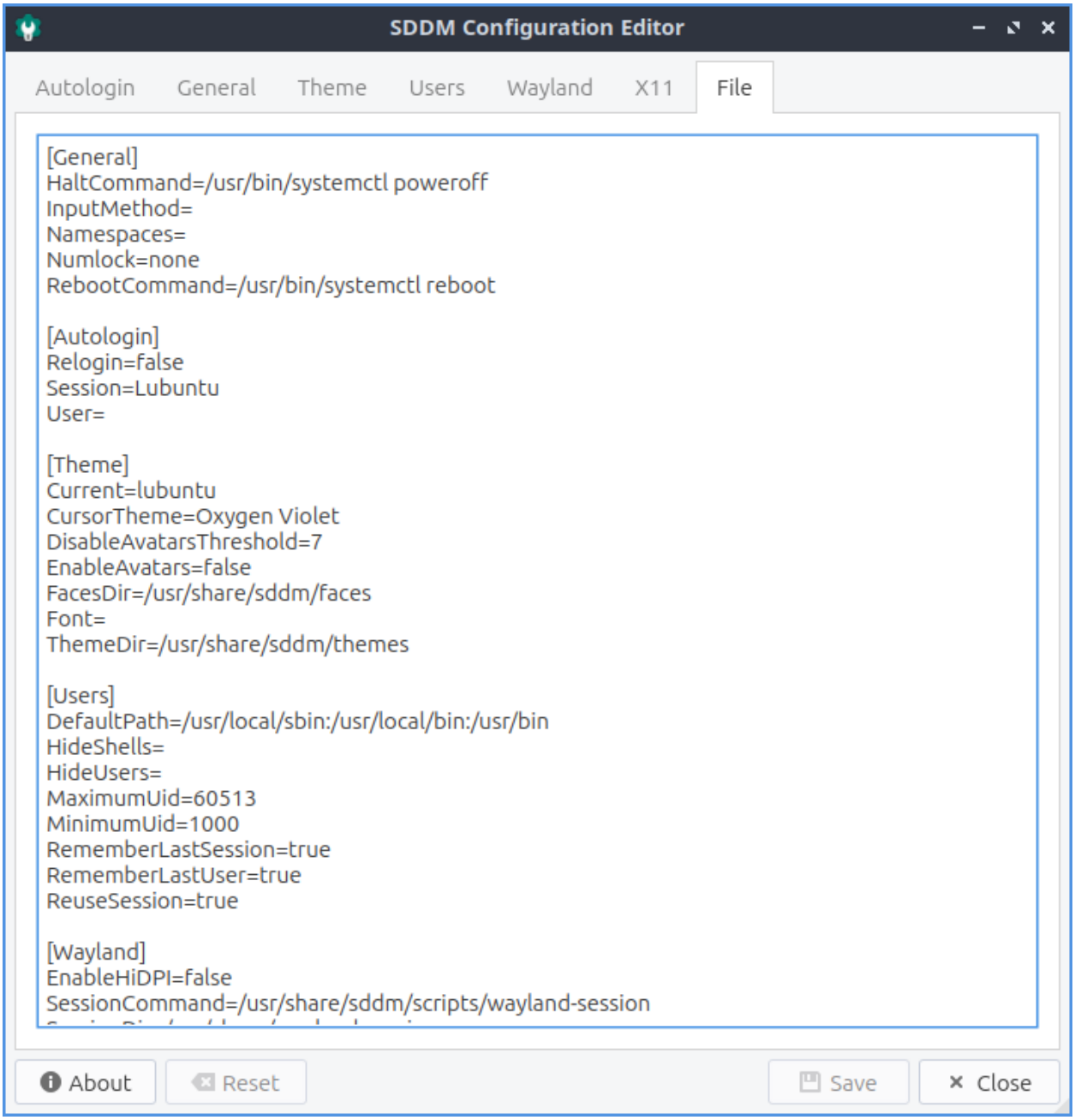
To change settings with the Wayland display server use the Wayland tab. To use scale high dots per inch automatically in Wayland check the Enable Qt's automatic high-DPI scaling checkbox. To choose where to launch your Wayland startup use the Path to a script to execute when starting the desktop session field. To change where to log your Wayland session use the Path to the user session log file field. To change where SDDM looks for Wayland session use the Directory containing available Wayland session field. To the right of the text you can find the path or file with a file picker with the buttons to the right of each field.



To manage settings related to the X11 display server use the X11 tab. To automatically scale high dots per inch by Qt check the Enable Qt's automatic high-DPI scaling checkbox. To change which virtual terminal your desktop environment will launch on change the The lowest virtual terminal number that will be used field. To change what arguments to launch X server with change the Arguments passed to the X server invocation field. To change where SDDM looks for a list of sessions for the X11 display server change the Directory containing available X sessions field. To change where to look for a startup script for X11 change the Path to a script to execute when starting the display server field. To choose which script to use when stopping the X server use the Path to a script to execute when stopping the display server field. To choose where to launch your desktop session from use the Path to a script to execute when starting the desktop session field. To tell SDDM where to find the X11 binary change the Path to X server binary field. To change where X11 gets permission information change the Path to xauth binary field. To tell SDDM the path to Xephyr change the Path to Xephyr binary field. To change the path for the file for Xauthority change the Path to the Xauthority file field. To change where to log the user session change the Path to the user session log file field.



To view the config file that is generated by SDDM-Configuration look at the File tab.



Version

Lubuntu ships with version 0.2.0 of SDDM-Configuration.

How to Launch

To launch SDDM-Configuration Accessories ▸ SDDM Configuration or run

```
SDDM Configuration
```

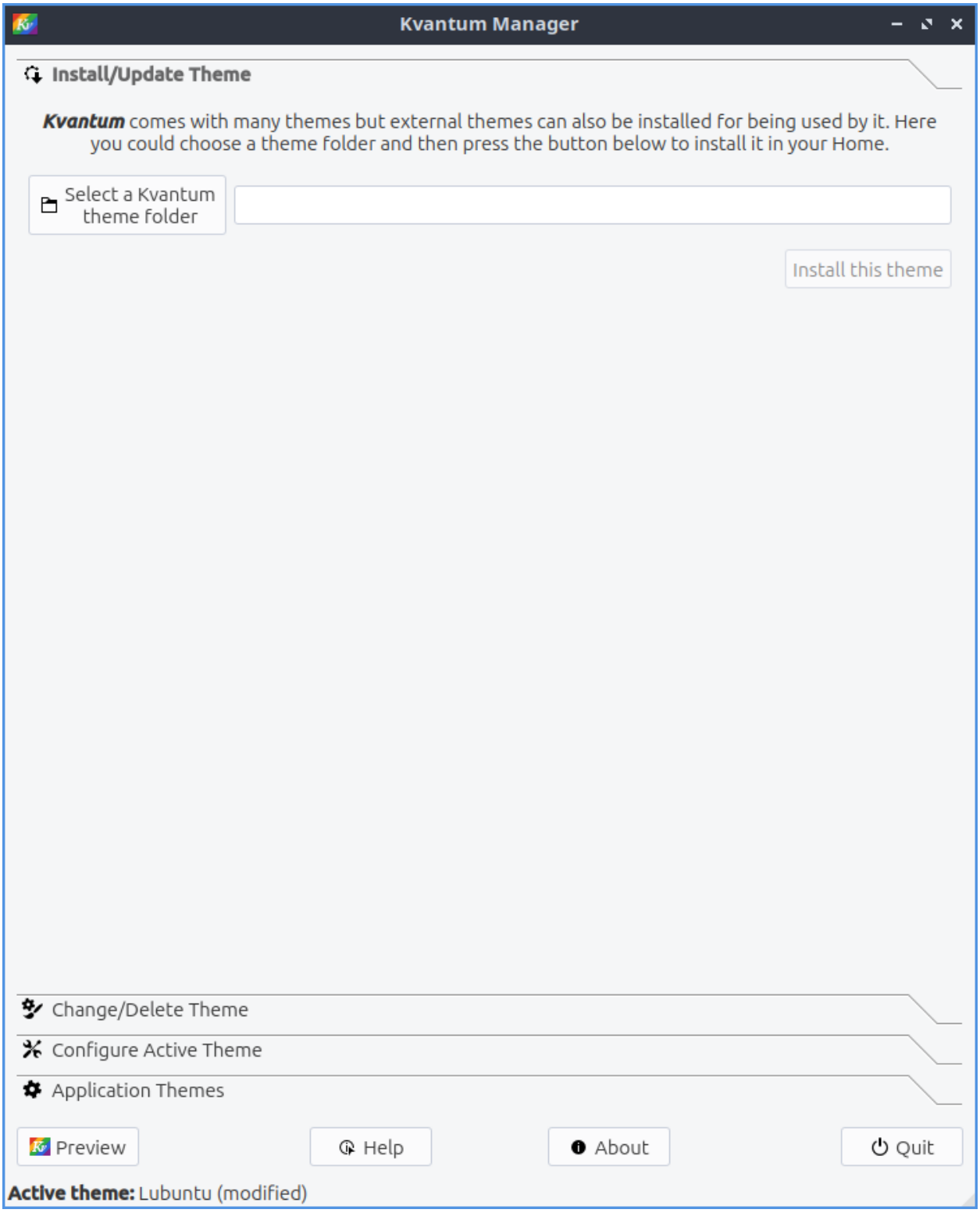
from the command line.

Chapter 2.4.10 Kvantum Manager

Kvantum Manager customizes your Qt style.

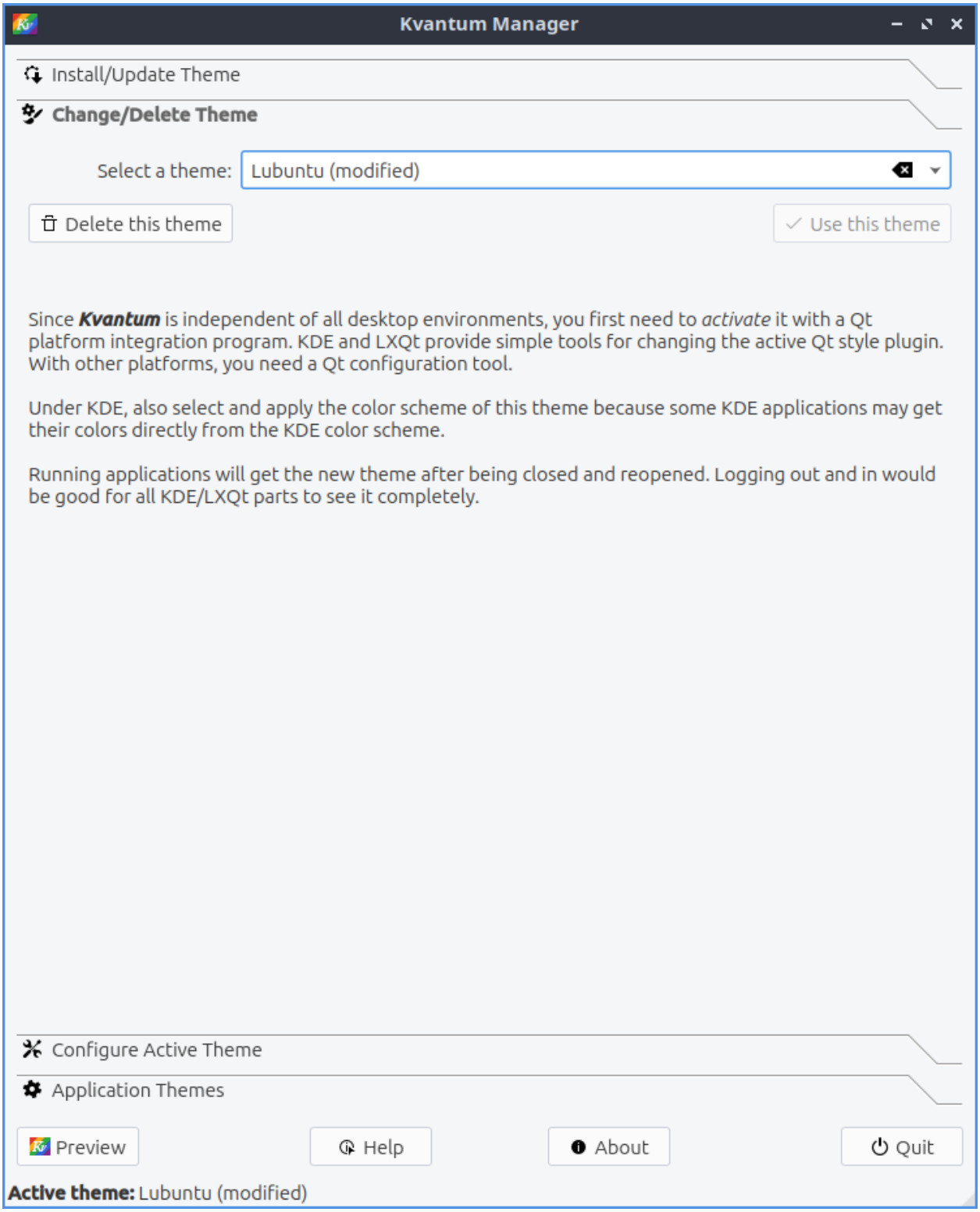
Usage

The Install/ Update Theme lets you install an external theme and use it. To select a folder for this theme press the Select a Kvantum theme folder or type the path in the bar next to this. To install the theme press the Install this theme button.

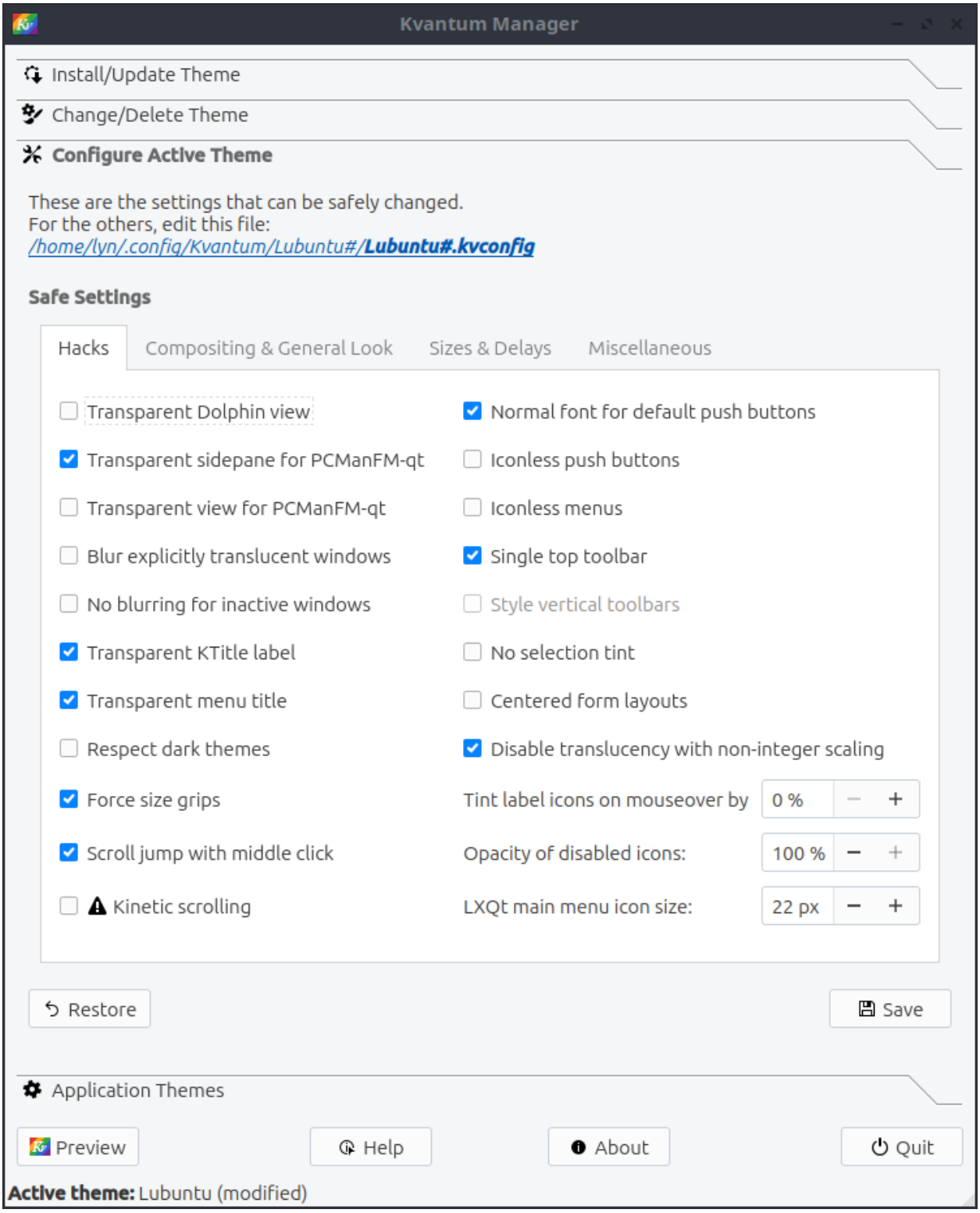


To preview the way the current theme looks press Preview button. After this a window will let you interact with all the different elements in your theme in several tabs to see how different window elements will look. To view interactive help about something press the Help. To Quit Kvantum manager press the Quit button.

To change your theme use the Change/Delete Theme tab. To select a theme you can search for one by name typing next to Select a theme or press the drop down button to select this theme. Then to apply it press the Use this theme button. To delete a theme press the Delete this theme button.



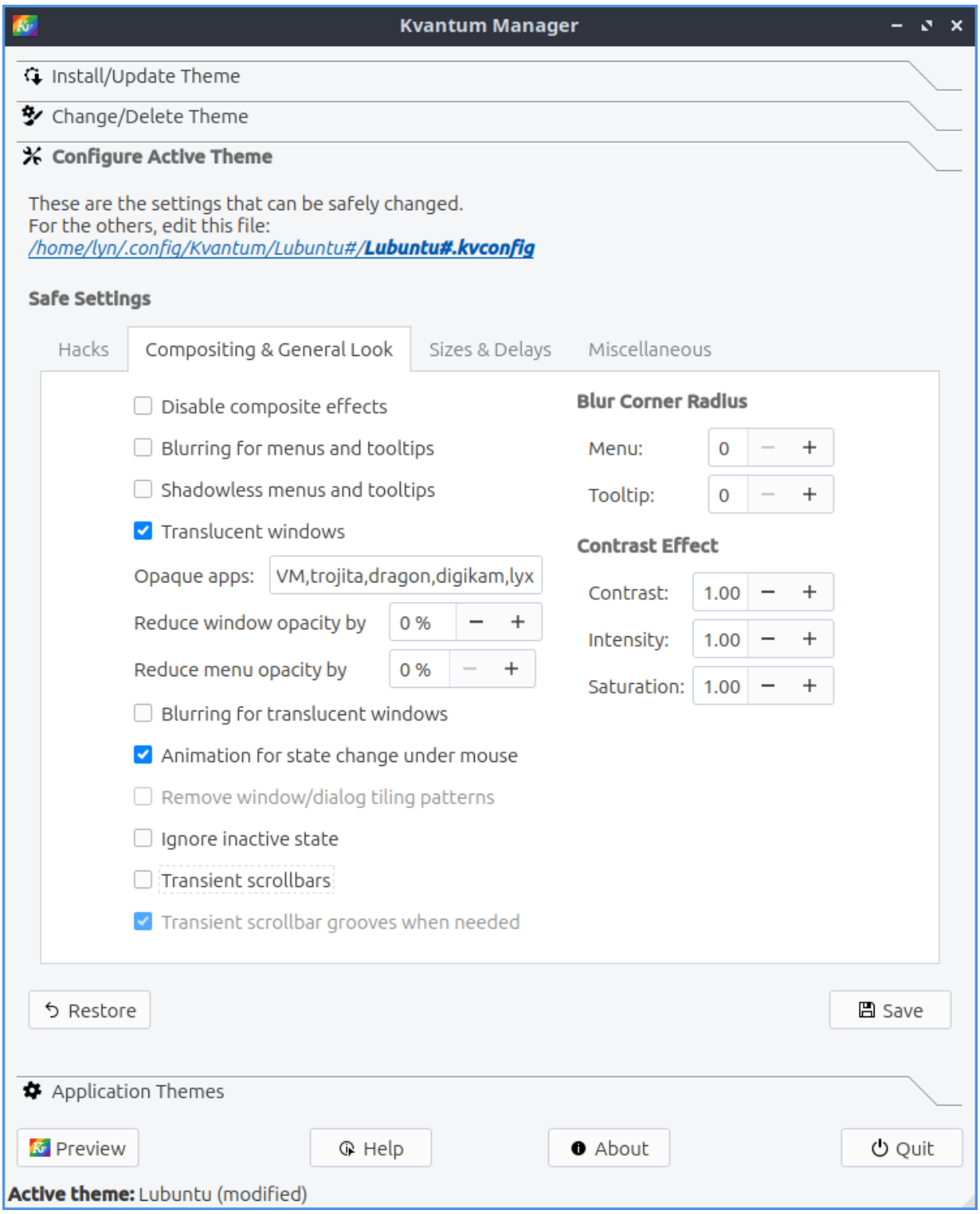
To change settings for your current theme use the Configure Active Theme tab. To change small things about your theme use the Hacks subtab. To have Dolphin be transparent add Transparent Dolphin view checkbox. To have the side pane of pcmanfm-qt be transparent use the Transparent sidepane for PCManFm-Qt checkbox. To have PCManFM-qt be transparent check the Transparent view for PCManFM-Qt checkbox. To blur transparent windows check the Blur explicitly translucent windows checkbox. To not blur inactive windows check the No blurring for inactive windows checkbox. To have Kvantum make dark themes for applications that don't want to use a dark theme check the Respect dark themes checkbox. To make grabbing grips as big as possible check the Force size grips checkbox. To jump your scrolling with a middle click check the Scroll jump with middle click checkbox.



To use a normal weight font for push buttons check the Normal font for default push buttons checkbox. To not use icon on push buttons check the Iconless push buttons checkbox. To not use icon for menus check the Iconless menus checkbox. To style only the top toolbar check the Single top toolbar checkbox. To not tint icons when you select them check the No selection tint checkbox. To center text in form check the Centered form layouts checkbox. To avoid

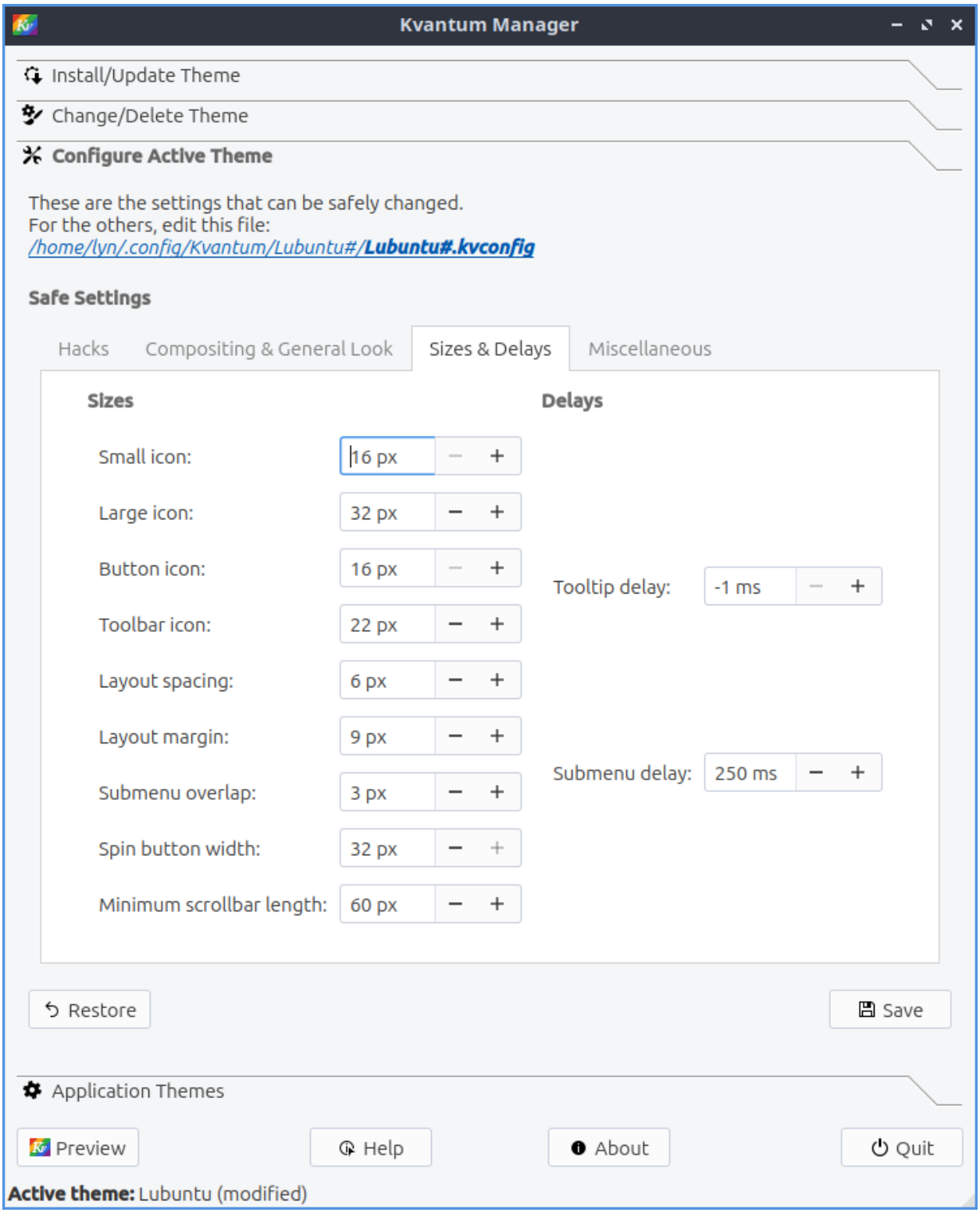
bugs with scaling a non integer amount and transparency check the Disable translucency with non-integer scaling checkbox. To change how much to tint icons when you mouseover them change the Tint label icons on mouseover by field. To change how opaque to make disabled icons change the Opacity of disabled icons field. To change the size of the LXQt main menu icon size use the LXQt main menu icon size field.

To change composting settings use the Composting & General Look tab. To disable compositing use the Disable composite effects checkbox. To blur menus and tooltips use the Blurring for menus and tooltips checkboxes. To choose the radius of blurring on menus use the Menu field. To choose how much to blur tooltips use the Tooltip field. To have menus without shadows and use the Shadowless menus and tooltips checkbox. To choose to have windows be translucent use the Translucent windows checkbox. To choose to have certain windows opaque list them separated with commas in Opaque apps field. To choose how much to reduce windows by use Reduce window opacity by field. To choose how transparent to make menus use the Reduce menu opacity by field. To choose to blur translucent windows use the Blurring for translucent windows checkbox. To have a fading animation if the state of something changes on mouseover check the Animation for state change under mouse checkbox. To have inactive windows appear the same as your active windows check the Ignore inactive state checkbox. To always show scrollbars uncheck the Transient scrollbars checkbox. To change which contrast in ui elements use the Contrast field. To change how much color intensity on each ui change the Intensity field. To change how saturated colors on ui are change the Saturation field.

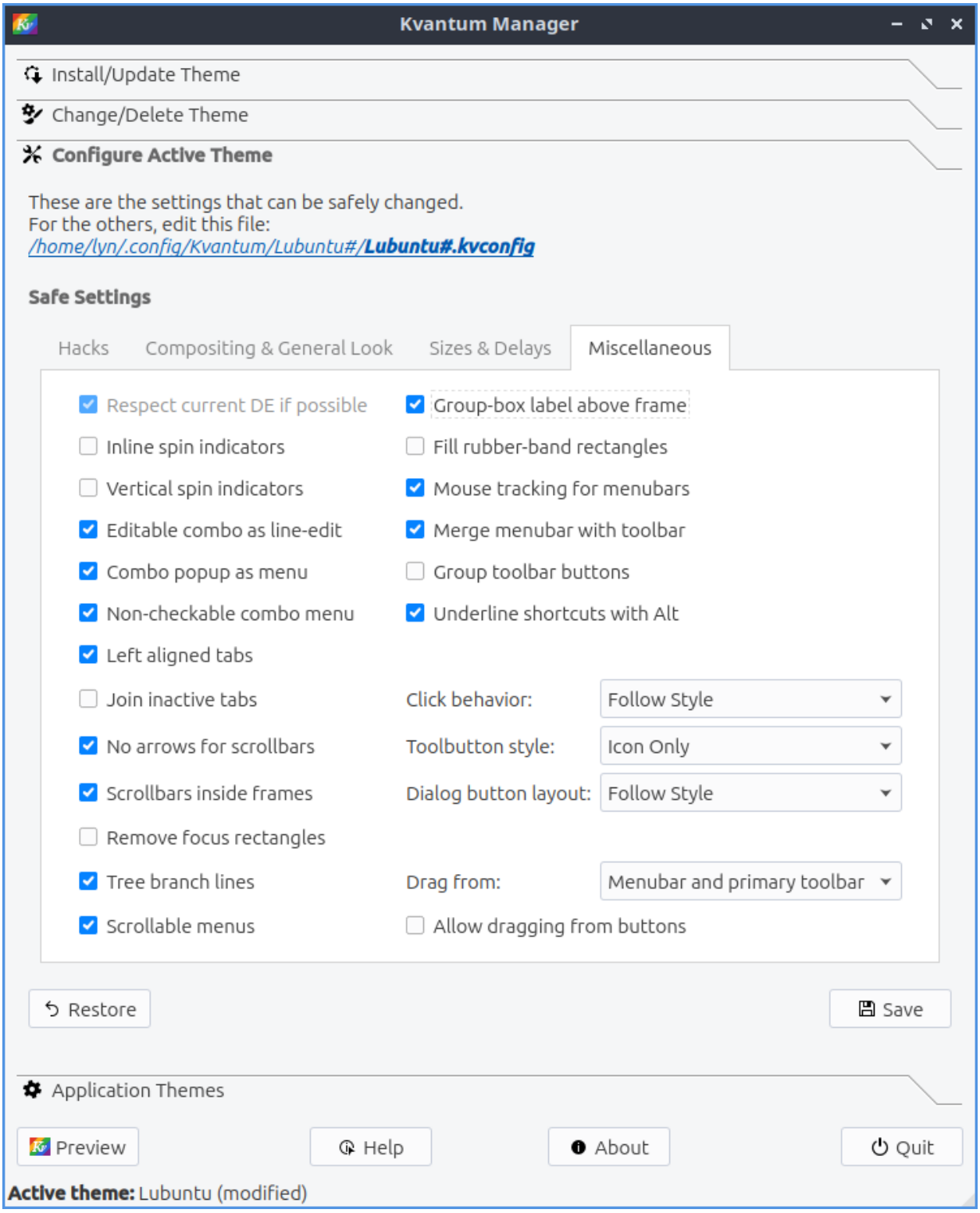


To choose the sizes for various part of user interfaces and how long for things to delay use the Size & Delays subtab. To change the size of small icons use Small icon field. To change the size of large icons use the Large icon field. to change the size of button icons use the Button icon field. To change the size of toolbar icons use the Toolbar icon field. To change how much spacing on the layout use the Layout spacing field. To changes the margins of layout use

the Layout margin field. To choose how much to have a submenu overlap with the parent menu use the Submenu overlap field. To choose how big to make a spin button change the Spin button width field. To choose the minimum length of a scrollbar change the Minimum scrollbar length field. To choose how long to delay adding a tooltip change the Tooltip delay field. To choose how long to delay showing a submenu use the Submenu delay field.



The Miscellaneous tab has other settings for how applications appear. To have + and - buttons be drawn inline check the Inline spin indicators checkbox. To have + and - buttons be shown vertically check the Vertical spin indicators. To have your combo boxes be editable inline check the Editable combo as line edit checkbox. To have combo popups be shown as menus check the Combo popup as menu checkbox. To have combo boxes be a list of radio buttons uncheck non-checkable combo menu checkbox. To choose to have tabs aligned to the left by default check the Left aligned tabs checkbox. To have inactive tabs have no borders check the Join inactive tabs checkbox. To hide arrows on scrollbars check the No arrows for scrollbars checkbox. To draw scrollbars inside frames check the Scrollbars inside frames checkbox. To hide a rectangle showing where you are currently focusing with the mouse check the Remove focus rectangles checkbox. To have large menus be scrollable check the scrollable menus checkbox.

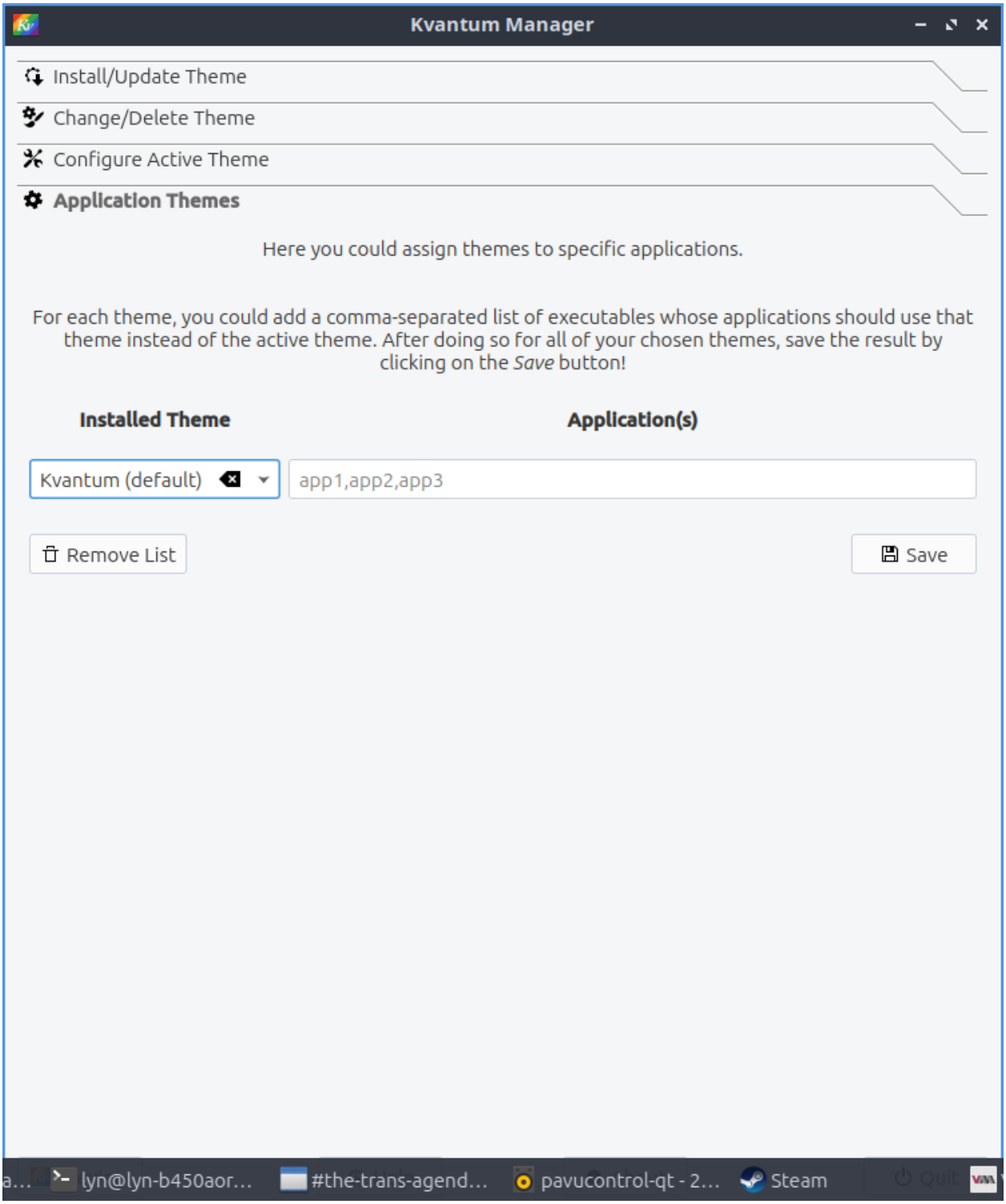


To group labels above frame check the Group-box label above frame checkbox. To fill rectangles when you highlight something check the Fill rubber band rectangles checkbox. To turn off mouse tracking for menus uncheck the Mouse tracking for menubars checkbox. To have the menubar and toolbar drawn together check the Merge menubar with toolbar checkbox. To group buttons on your toolbar check the Group toolbar buttons checkbox. To have your

menu shortcuts with you can press with alt check the Underline shortcuts with Alt checkbox. To choose what to do when you click use the Click behavior menu. To choose how applications without a style change the Toolbutton style menu. To have a dialog buttons are laid out use the Dialog button layout drop down. To choose where you can drag items from use the Drag from drop down menus. To allow dragging things from buttons check the Allow dragging from buttons checkbox.

To save your changes to your theme press the Save button. To change back to how your application themes were before press the Restore button.

To choose to launch a particular application in a certain theme use the Application Themes tab. To choose which theme to launch a particular application in select the theme under Installed Theme. Then list which applications you want the theme to be in in the Application(s) field. To clear what applications you have in a list press the Remove List button. To save your current list of applications to be launched with a theme press the Save button.


Kvantum Manager
Install/Update Theme
Change/Delete Theme
Configure Active Theme
Application Themes
Here you could assign themes to specific applications.
For each theme, you could add a comma-separated list of executables whose applications should use that theme instead of the active theme. After doing so for all of your chosen themes, save the result by clicking on the Save button!
Installed Theme
Application(s)
Kvantum (default)
app1,app2,app3
Remove List
Save
lyn@lyn-b450aor...
#the-trans-agend...
pavucontrol-qt - 2...
Steam

Version

Lubuntu ships with version 1.1.2 of Kvantum Manager.

How to Launch

To launch Kvantum Manager from the menu Accessories ▸ Kvantum Manager or Preferences ▸ LXQt Settings ▸ Kvantum Manager. You also can launch Kvantum Manager from clicking Kvantum Manager from LXQt configuration center.

2.2.5 Chapter 2.5 Sound and Video

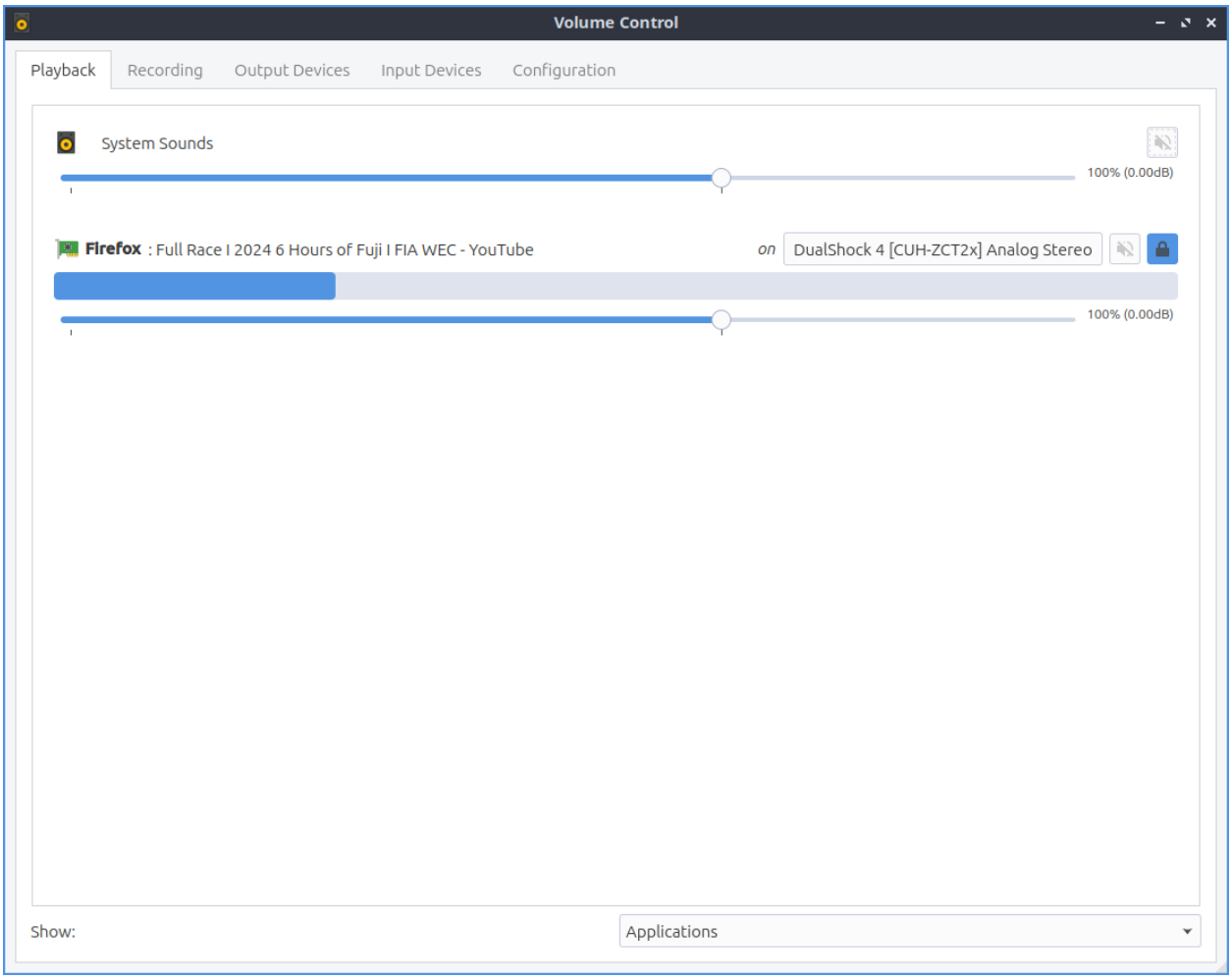
This chapter documents playing media and controlling volume and devices.

Chapter 2.5.1 PulseAudio Volume Control

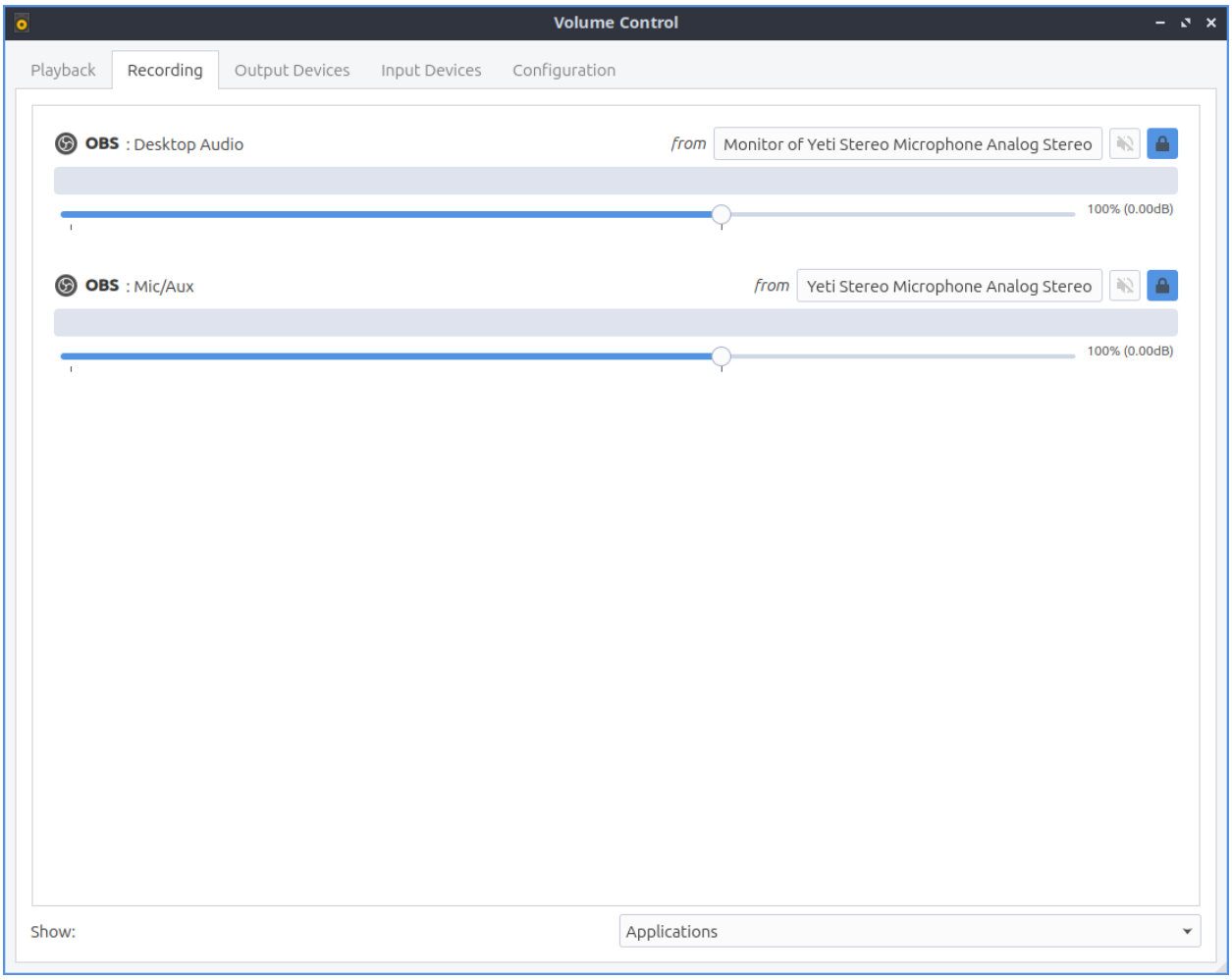
PulseAudio Volume Control is the default volume mixer for Lubuntu. It also manages multiple input and output devices for all programs on your system.

Usage

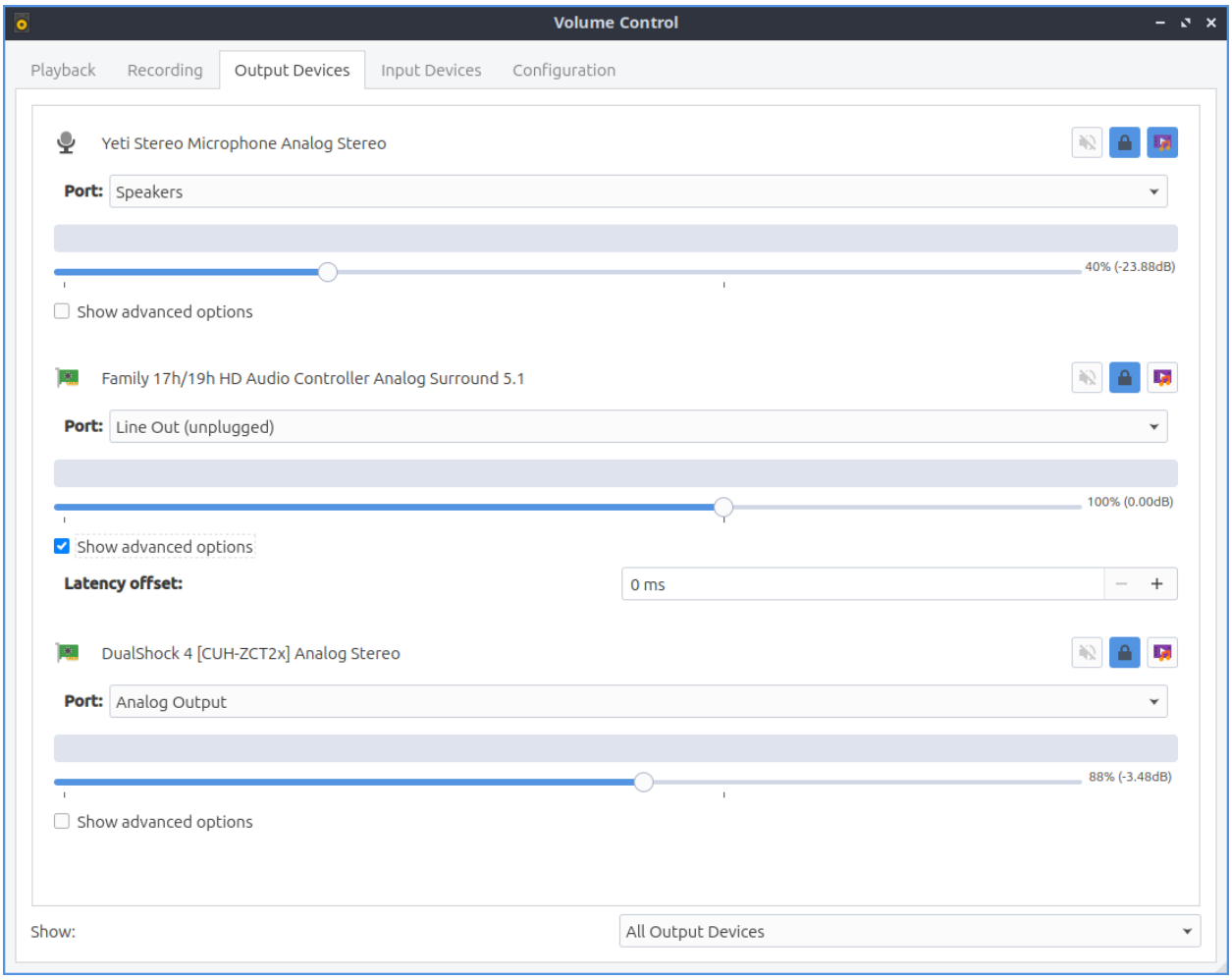
The Playback tab of PulseAudio Volume Control gives you the ability to the control the output device, mute, or change the volume of each application. To change the Volume of each application on the playback slide the slider to the right for more volume or to the left for less volume. Above your volume slider the is a bar that shows how much volume is currently emitted by that particular application. The button with an X over the speaker is a mute button and if it is a darker gray that application is currently muted and can't make any sound. The drop down Show drop down menu lets you see your virtual streams and applications. In the bottom right hand corner is the current volume level viewed as a percentage. This program also in software allows you to go over 100 percent volume if it is too quiet. If you have multiple sound outputs enabled you can change what output of an application by using the on menu.



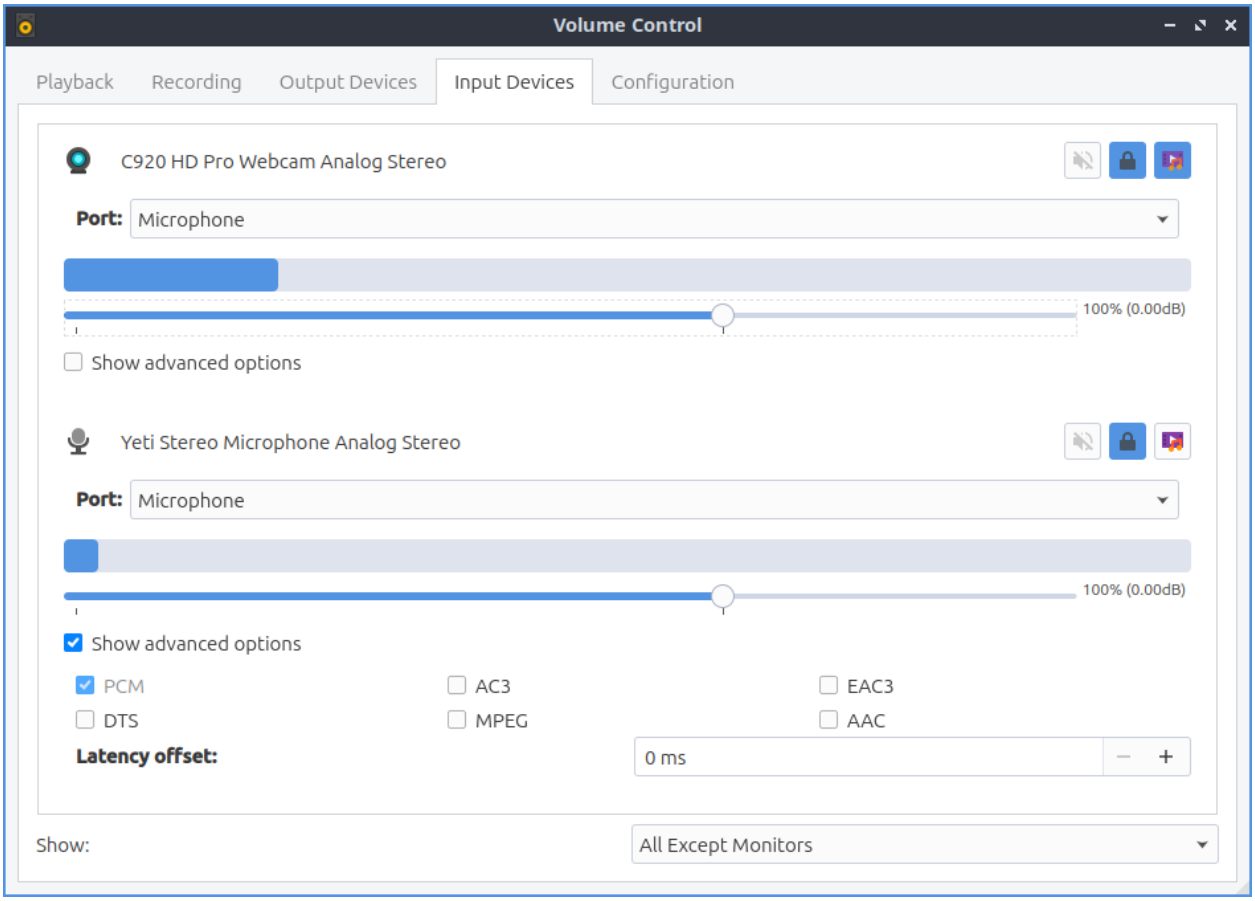
To view settings for applications recording audio use the Recording tab. If you have no applications recording the tab will say No application is currently recording audio. To mute your recording press the button that looks like a speaker with an x over it. To increase the volume of recording move the slider to the right. To decrease the volume of recording move the slider to the left. To change what source an application is recording use the drop down with the word From to the left. To adjust the difference of each left and right press the lock button or press it again to go back to one slider. To change the left audio channel change the use the Front Left slider. To change the right channel or audio use the Front Right slider.



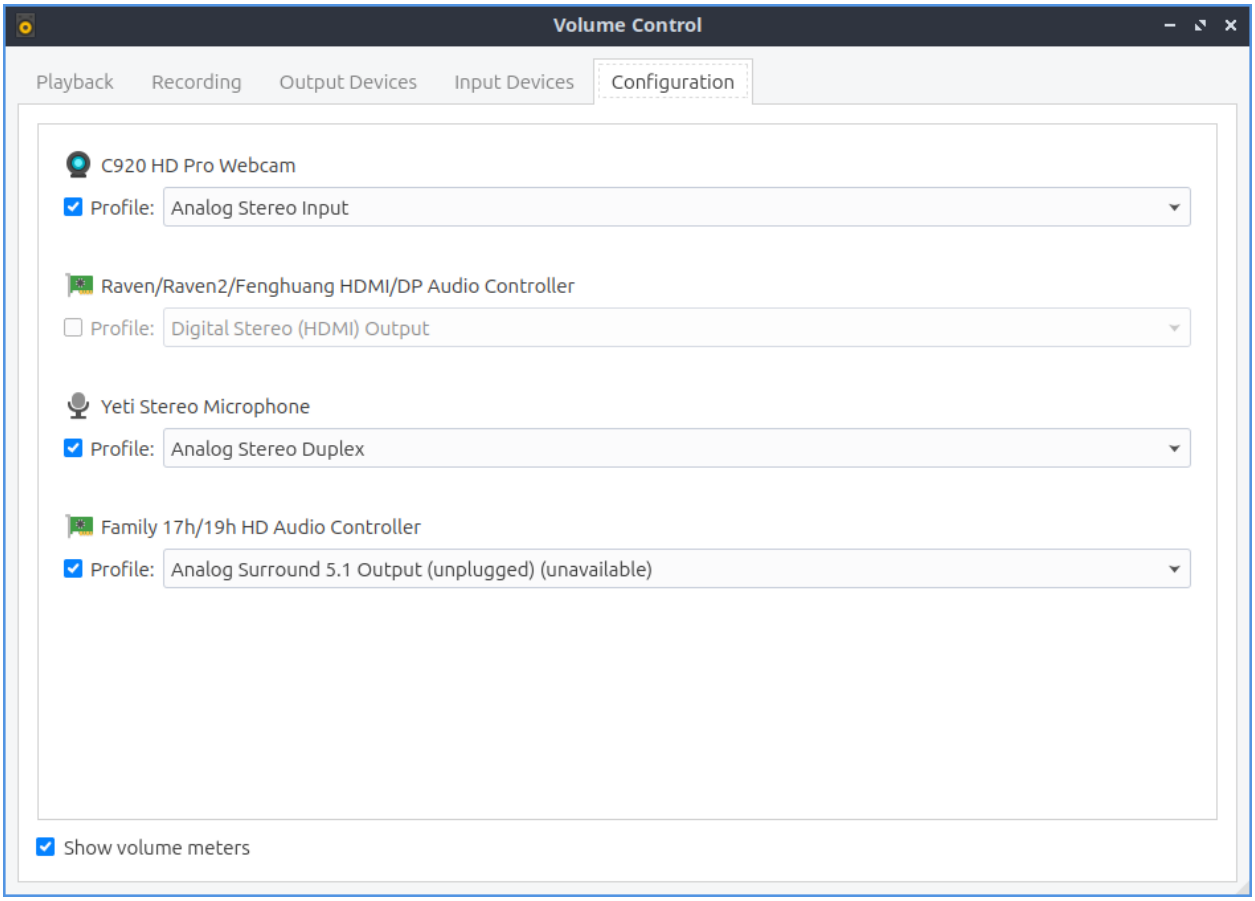
The Output devices tab shows different output for different sounds. To mute one output such as a set of speakers press the button that looks like a speaker with an X on it. To increase the volume of an output slide the slider for that output to the right. To decrease the volume for each output slide the slider to the left. To see the sound output of each output device see the bar over the volume slider. To view more advanced options check the Show advanced options will show advanced options. The advanced option for Latency offset will be shown for for how long to shift offset for latency for say a badly synced video. To the right of the mute button there is a lock button where you can change the balance between the left and right speakers by sliding the sliders just like for volume. For stereo setup with a subwoofer for example will have channels Front Left, Front Right, and Subwoofer each having there own channels to adjust volume. To change back to a single slider for each channel press the lock button. To select another source to output audio use the Port drop down menu.



The Input devices tab manager your sound inputs. To mute your microphone in pulseaudio toggle the button that looks like a speaker. To adjust input volume slide the slider to the right to increase volume or to the left to decrease volume. To select which audio input such as line in or microphone for your device is in the Port drop down but this menu is hidden if you do not have inputs. Right below Port will show how much volume is being picked up by the input device. To change left and right channels separately press the lock button. To change your volume on each channel drag to the left for more volume or to the right for less volume. To get back to one volume slider press the lock button again. To mute your input press the button to the left on the right hand side. To toggle seeing more options press the Show advanced options checkbox. With this shown the Latency offset field will allow you to change the latency offset.



The Configuration tab has different sound profiles for each different output device. To change how sound comes out of your speakers or headphones varying for example the number of speakers for each device change the Profile drop down menu. Choosing for example an Analog Surround 2.1 Output will let you not just change stereo but also control the volume of the subwoofer. To enable or disable an audio output press the checkbox to the left of Profile. To toggle PulseAudio volume control showing a how much sound a speaker, headphone or microphone is making check/uncheck the Show volume meters checkbox.



Version

Lubuntu ships with version 2.3.0 PulseAudio Volume Control.

How to Launch

To launch PulseAudio Volume Control from the menu Sound & Video ▸ PulseAudio Volume Control or run

```
pavucontrol-qt
```

from the command line. Another way to launch PulseAudio Volume Control is to left click on the volume applet in the panel and click the Mixer button. The icon for PulseAudio Volume Control looks like a black and yellow speaker.

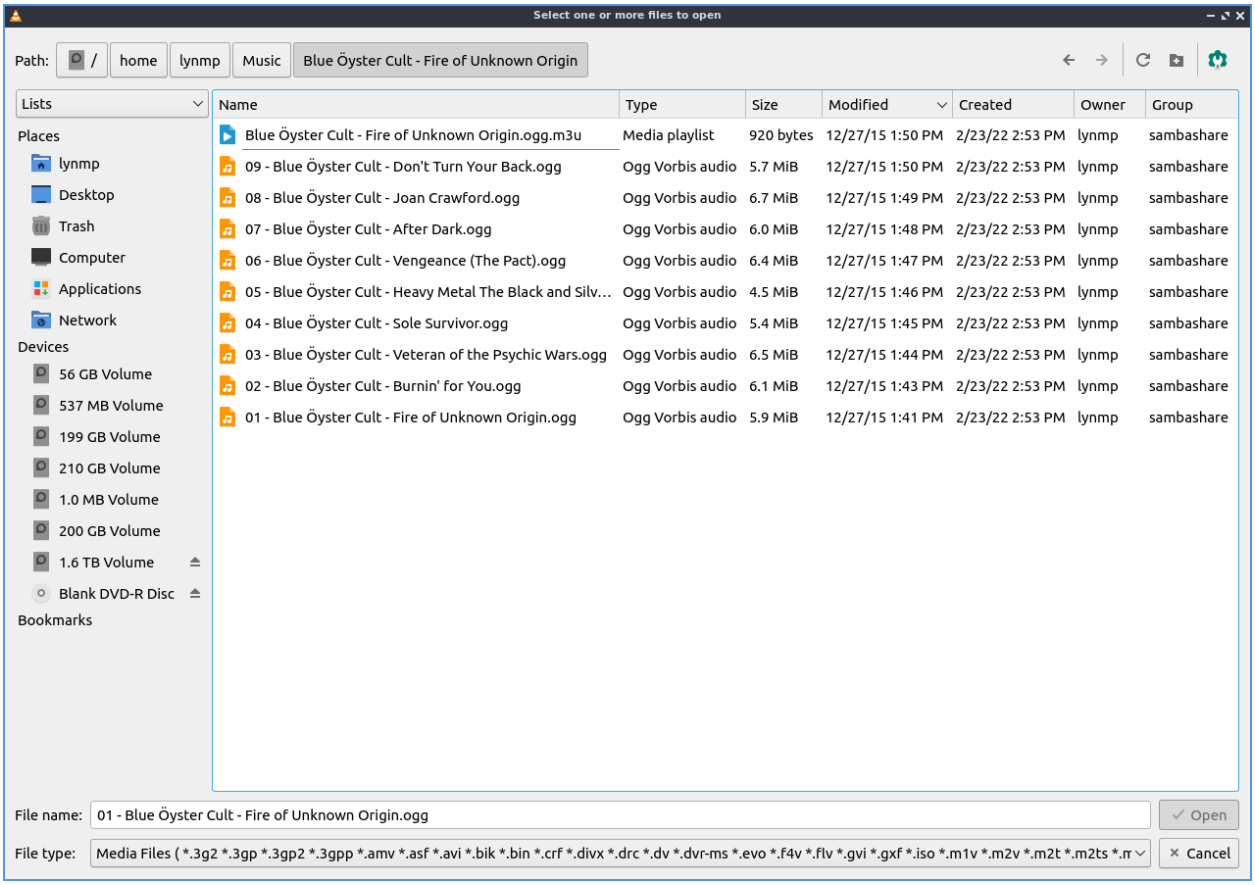
Chapter 2.5.2 VLC

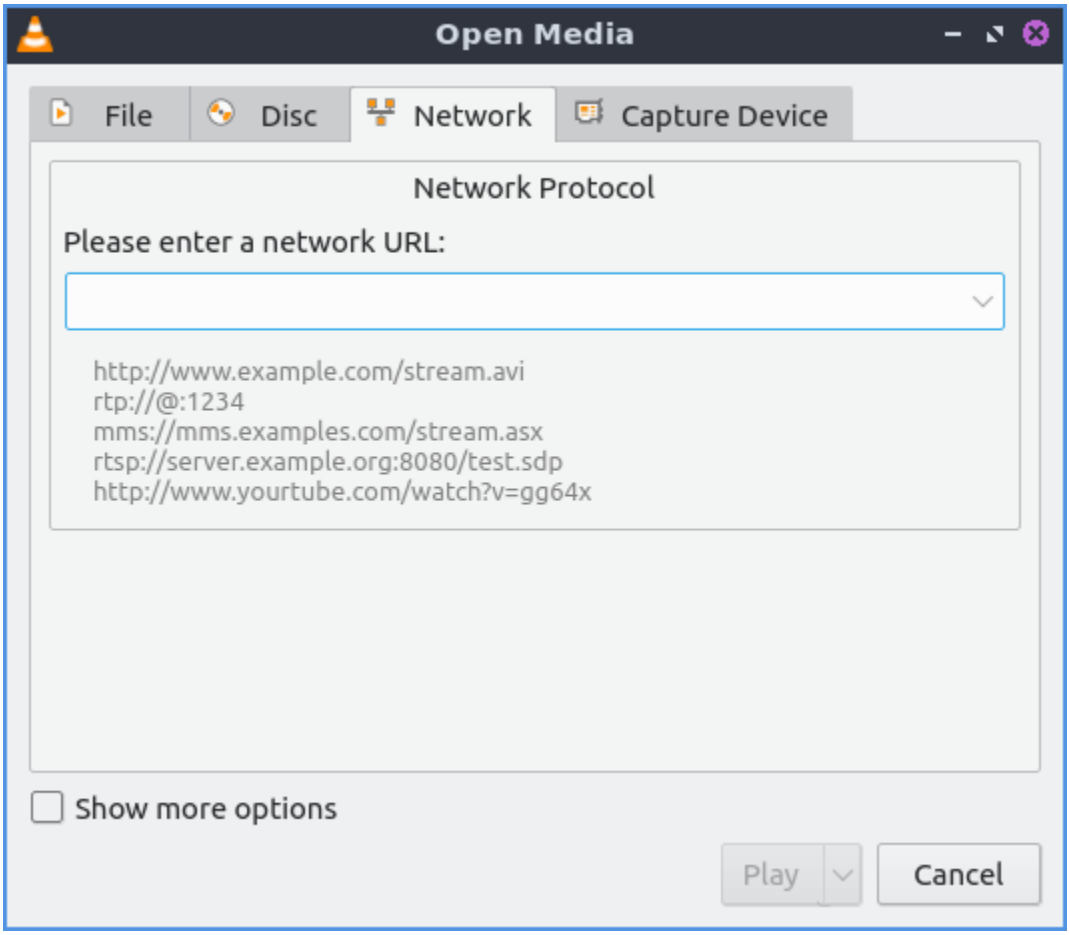
VLC is the default media player for Lubuntu that can open both audio and video files.

Usage

To open media stored locally on your system click media open Media ▸ Open File and navigate your local files or press `control +o` on the keyboard to open files stored locally on your machine. If you have music on a USB device, optical disk, or another partition the Devices

segment will let you navigate to those files from here. If you want to say listen to two videos or songs from an album you hold `Control +left click` to open multiple files at once or press `Control+A` to select all files in a folder. If you wish to open media from somewhere on the internet on Media ▸ Open Network Stream or press `Control + N`. To open a whole directory use Media ▸ Open Directory or press `control +F`. VLC also keeps track of recently opened media in case you want to view media again in Media ▸ Open Recent Media ▸ file name. If you have copied a path in your clipboard you can press `Control +V` or Media ▸ Open Location from clipboard to quickly open a location in your clipboard.





To pause playback of a file press the button that look like two vertical lines or Playback ‣ Pause. To resume playback press the play button which looks like a triangle or Playback ‣ Play. To stop playing a file completely press the square stop button or Playback ‣ Stop. To toggle fullscreen press the button which has the four corners of the screen or Video ‣ Fullscreen to make it fullscreen and the four corners to have it back into windowed mode. To have VLC always on top View ‣ Always on top and check the checkbox in the menu and use the menu the same way again to make it back to how it was before.

On the bottom right of VLC there is a bar that gets wider for volume. Click farther to the right to increase volume within VLC or press `Up arrow` to increase volume or `Down arrow` to decrease volume. Or hover the cursor over this bar and use the mousewheel to control volume. The button that looks like a speaker next to this toggles mute in VLC. Another way to mute the volume is to Audio ‣ Mute. To unmute press use any of the things you used to mute the volume again.

To see how long you have been watching the current piece of media counts up above the play pause button in a time. At the other side a number will show the length of the media you are playing and in-between is a slider with the current time. Moving the slider to the left will rewind playback while moving it to the left will fast forward playback. When you mouseover the progress for playback it will show the time at that point and that will jump to that time when you left click. Another way to jump to a specific time is to press `control +T` or Playback ‣ Jump to Specific Time. To move back 10 seconds in playback press `Left arrow`. To jump forward 10 seconds in playback press `Right arrow`.

To move to the next item in a playlist press the button that has two arrows pointing to the right and a vertical line or Playback ‣ Next. To move to the previous item in a playlist press

the button with two leftward pointing arrows and a vertical line or Playback ▸ Previous.

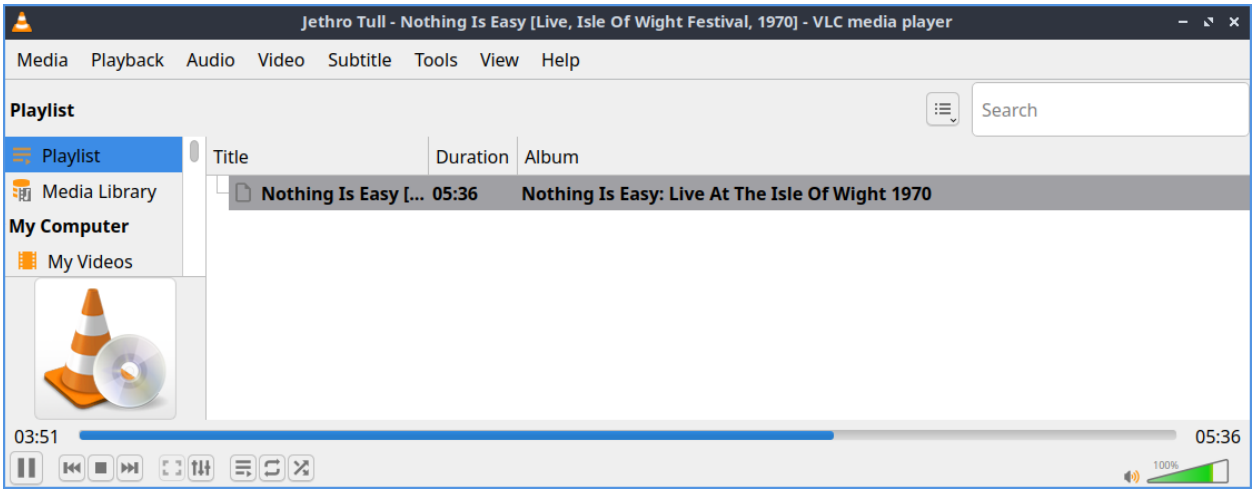
To make the same sound come out of both speakers go to Audio ▸ Stereo mode ▸ Mono. The sound to make a different left and right channel on each speaker will be Audio ▸ Stereo Mode ▸ Stereo. To make all sound come from the left channel Audio ▸ Stereo Mode ▸ Left and likewise for Right. To change what device audio from VLC come out Audio ▸ Audio Device ▸ output device you want. You can also change the stereo mode by right clicking on the video and selecting Audio ▸ Stereo Mode and selecting the audio mode you want.

To view a playlist of music or videos you can view press the button that is several horizontal lines and then a triangular play button on it or press `Control + l`. This will bring up a whole view of your playlist. To return to your original view press `Control + l`. To add more files to your playlist right click on the bottom of the playlist window and click add file to add an additional file. To play a particular file from a playlist double click on the file. To remove a file from a playlist right click on it and select Remove Selected. To remove all files from a playlist right click and select Clear the playlist or press `Control+W`. To save a playlist to a file press `Control + Y`, Media ▸ Save Playlist to File, or right click and select Save Playlist to File.

To see the name of each file is listed in the Title column. To see how long each file will take to play view the Duration column. To see what Album an Audio track comes from view the Album column. To change the width of each column press left click on the border between columns and drag until the desired size. If you want to see other metadata on your playlist you can right click above the songs in the playlist and check the checkbox before each checkbox or uncheck it to hide that column from showing. You can choose to show or hide the Duration, Artist, Genre, Album, Track number, Description, URI, ID, Rating, Cover, Disc number, or Date. To view the playlist in its own window uncheck View ▸ Docked Playlist and check it again to dock to have playlist return to the same window.

To change the view of the playlist right click playlist view mode to the version of the playlist you like the look of the best. To switch to where to find your music left click the My Music on the left side pane. To switch to where you find your videos on the left side pane click the My Videos side pane. If you wish to save a current playlist to a file Media ▸ Save Playlist to File or press `Control +Y`. To change how to sort your playlist right click on the playlist and select Sort by and select how you want to sort your checklist. To increase the size of the text on your playlist right click on the playlist and select Display size ▸ Increase and conversely to lower playlist text size select Display size ▸ Decrease.

To change the view mode of the playlist to icons for each file View ▸ Playlist View Mode ▸ Icons. To have a detailed list showing your your playlist View ▸ Playlist View Mode ▸ Detailed List. To have a simple list for your playlist view View ▸ Playlist View Mode ▸ List. To have your playlist viewed in a 3d picture with thumbnails View ▸ Playlist View Mode ▸ PictureFlow.

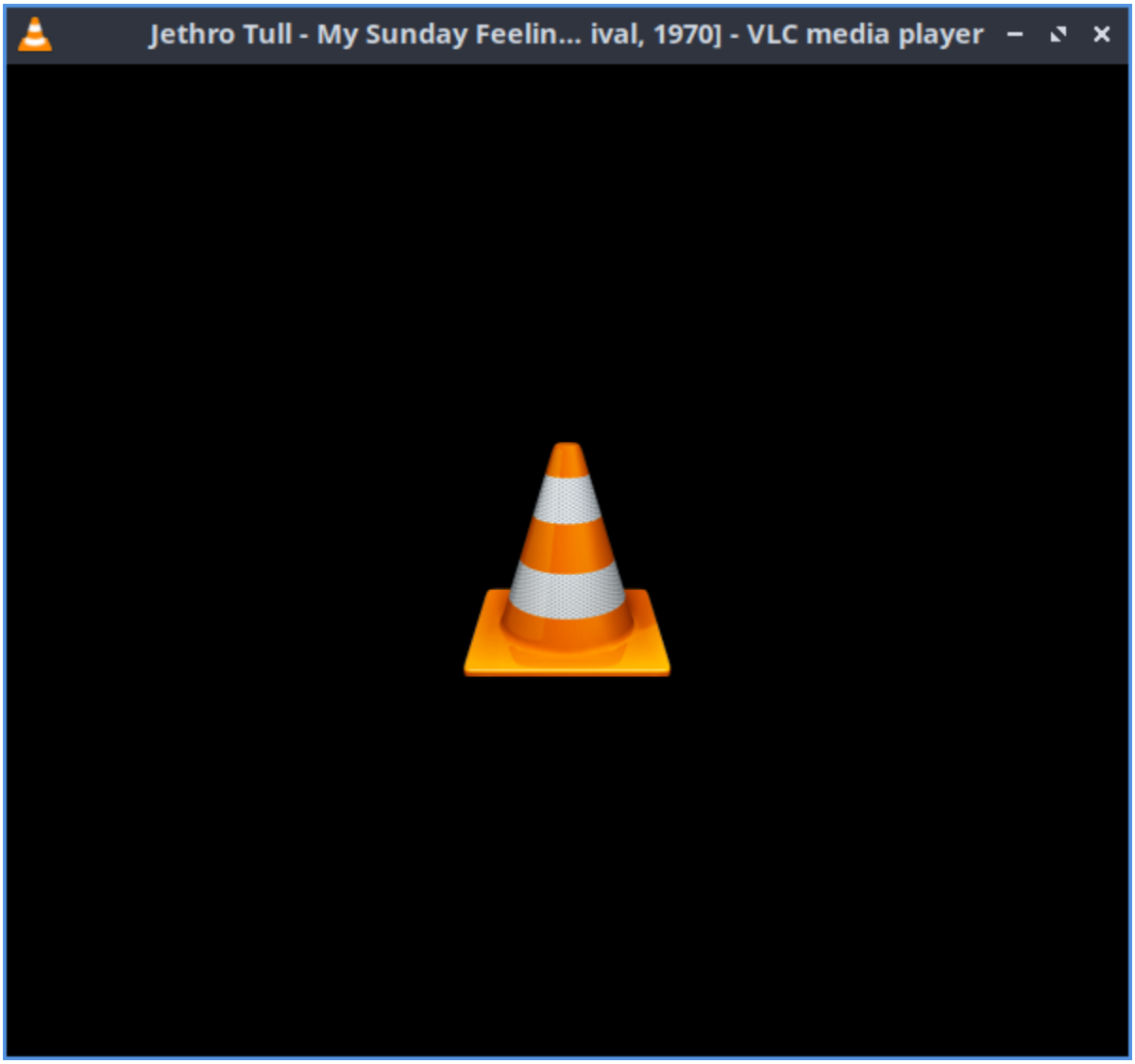


To loop the current playlist over and over press the button with an arrow pointing to the right and then another arrow below it pointing to the left. To randomize your playlist press the button with two crossing arrows on it.

To speed up playback faster than normal press the + key or use Playback ▸ Speed ▸ Faster. To slow down playback slower than normal press the - key Playback ▸ Speed ▸ Slower. If you want to reset your speed to normal Playback ▸ Speed ▸ Normal speed. If you want to have VLC end at the end of the playlist click the checkbox Media ▸ Quit at end of playlist. If you want to quit VLC press `Control+Q`.

To view info on your media press `Control + I` or click Tools ▸ Media info.

If you want a minimal interface that hides menubar and toolbars press `Control +H` or View ▸ Minimal View. To access the functionality of the menubar you can right click on where the video will play. To get back to the default view press `Control+H` again or right click and then View ▸ Minimal View.



To view more advanced controls View ▸ Advanced Controls. To record part of something in VLC press the red circle button to start recording and once it turns gray to stop recording.

To view to a status bar with what is playing and the speed with View ▸ Status bar. On the status bar the title of the currently playing file is on the left hand side. To view your current playback speed is towards the right hand side and to change it left click on the playback speed and drag to the desired speed. Finally, on the far right is the duration of the file.

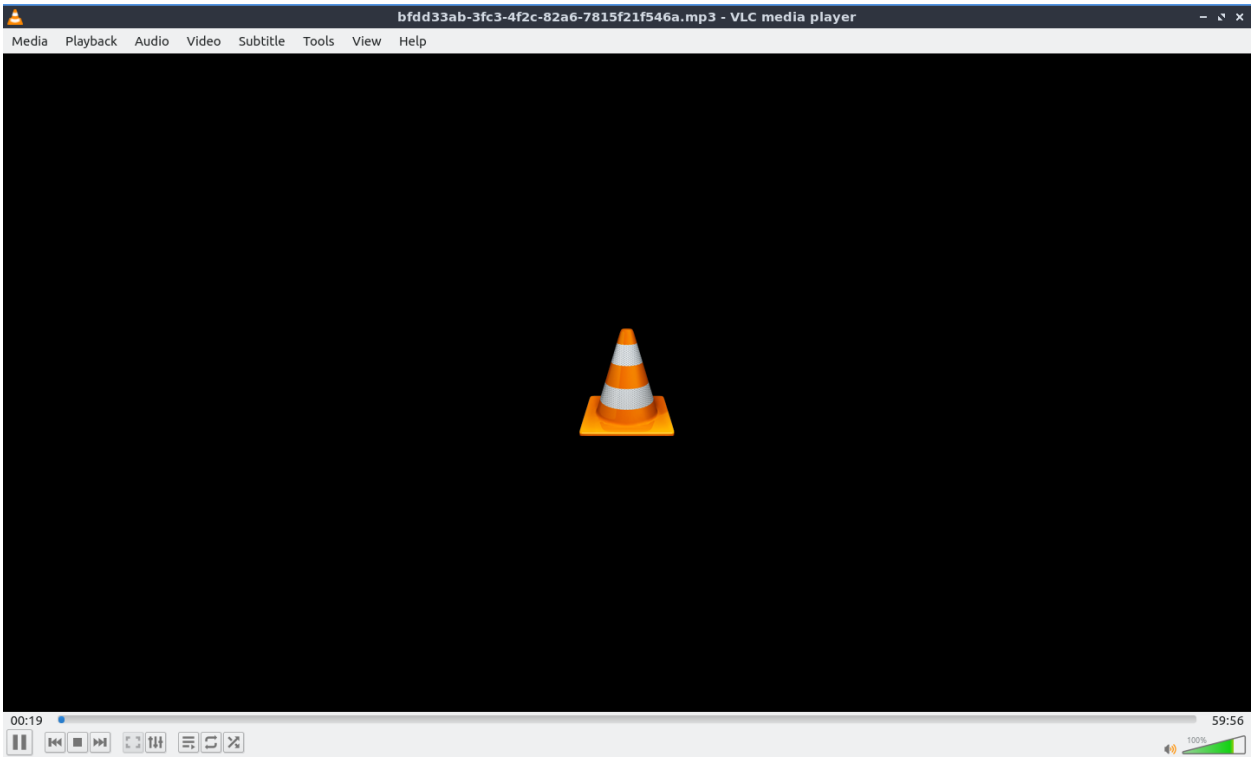
To change the aspect ratio of a video Video ▸ Aspect Ratio and select the one you wish. To crop a video to only part of your screen Video ▸ Crop and select the aspect ratio you want to crop the video to. To take a screenshot of the currently playing media Video ▸ Take Snapshot.

If you are playing audio and want a visualization while listening to an audio file Audio ▸ Visualizations and choose the one you want. To turn off the visualization Audio ▸ Visualizations ▸ Disable.

VLC will have an icon in the system tray when it is open and it looks like a traffic cone. If you right click on the tray icon you can select Pause to pause playback. To stop playback right click on the tray icon and select Stop. If you have paused or stopped playback and want to resume right click the tray icon and select Play. To go to the next thing in the playlist right

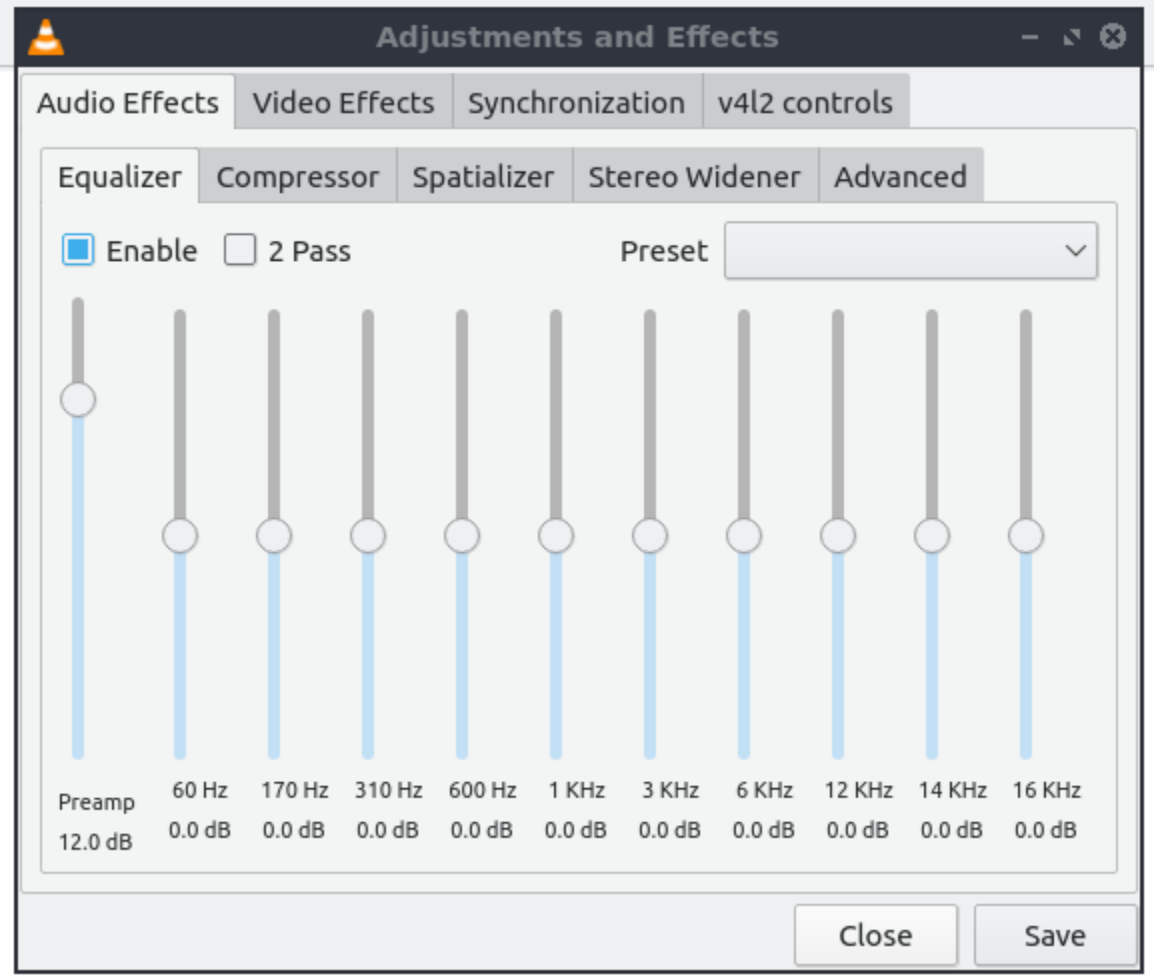
click on the tray icon and select Next. To move to the previous item in the playlist right click on the tray icon and select Previous. To mute all VLC by the tray right click and select Mute. To turn up right click on the system tray and select Increase Volume. To turn down the volume right click on the system tray and select Decrease Volume. To open a dialog to open more files right click on the system tray and select Open Media. To quit VLC from the system tray right click on the tray icon and select Quit.

Screenshot

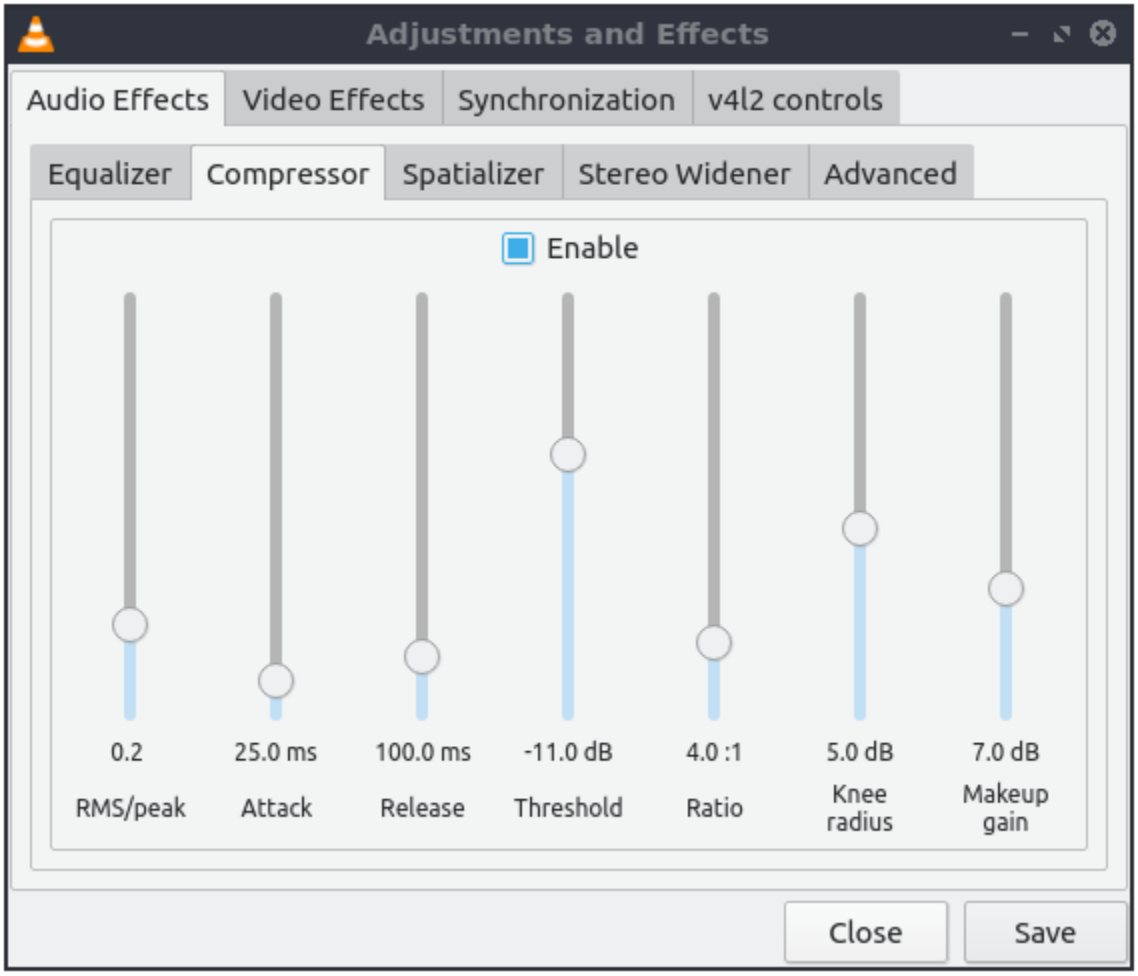


Effects and Filters

To open an equalizer press the button that looks like several physical slider switches, press `Control+E` or Tools ▸ Effects and Filters and use the Audio effects tab and Equalizer subtab. To enable the equalizer check the Enable checkbox. Then to increase or decrease the sound at each frequency up to increase the volume at that frequency. To select an equalizer preset use the Preset drop down menu. On the Advanced tab of audio effects there is a meter to adjust the pitch of the currently playing audio. To enable this effect check the Enable checkbox. To increase the pitch of the audio move the slider up. To decrease the pitch of the audio move the slider down. To open a dialog

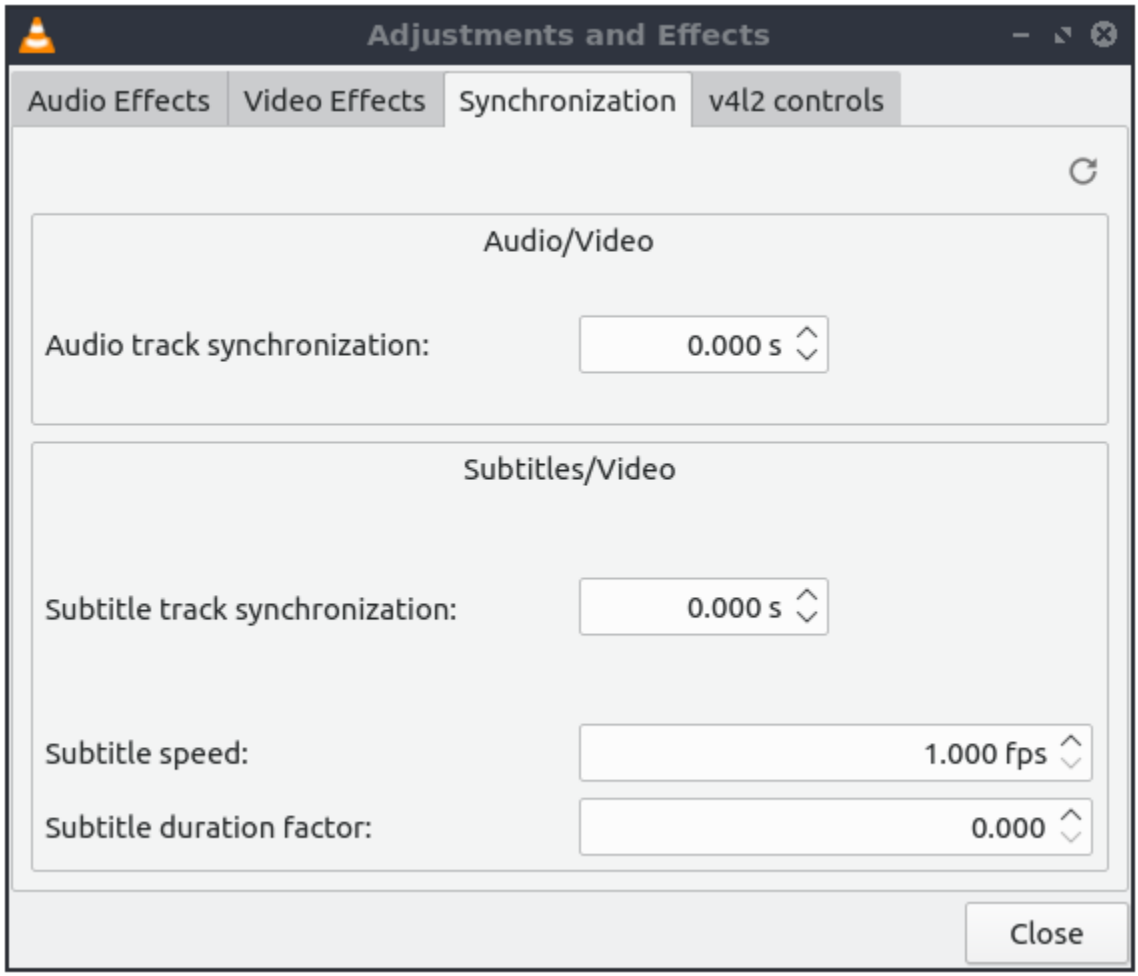


To change so that there is not as much difference between quiet and loud which makes everything seem louder use the Compressor tab. To actually enable the compression to make everything louder check the Enabled checkbox.



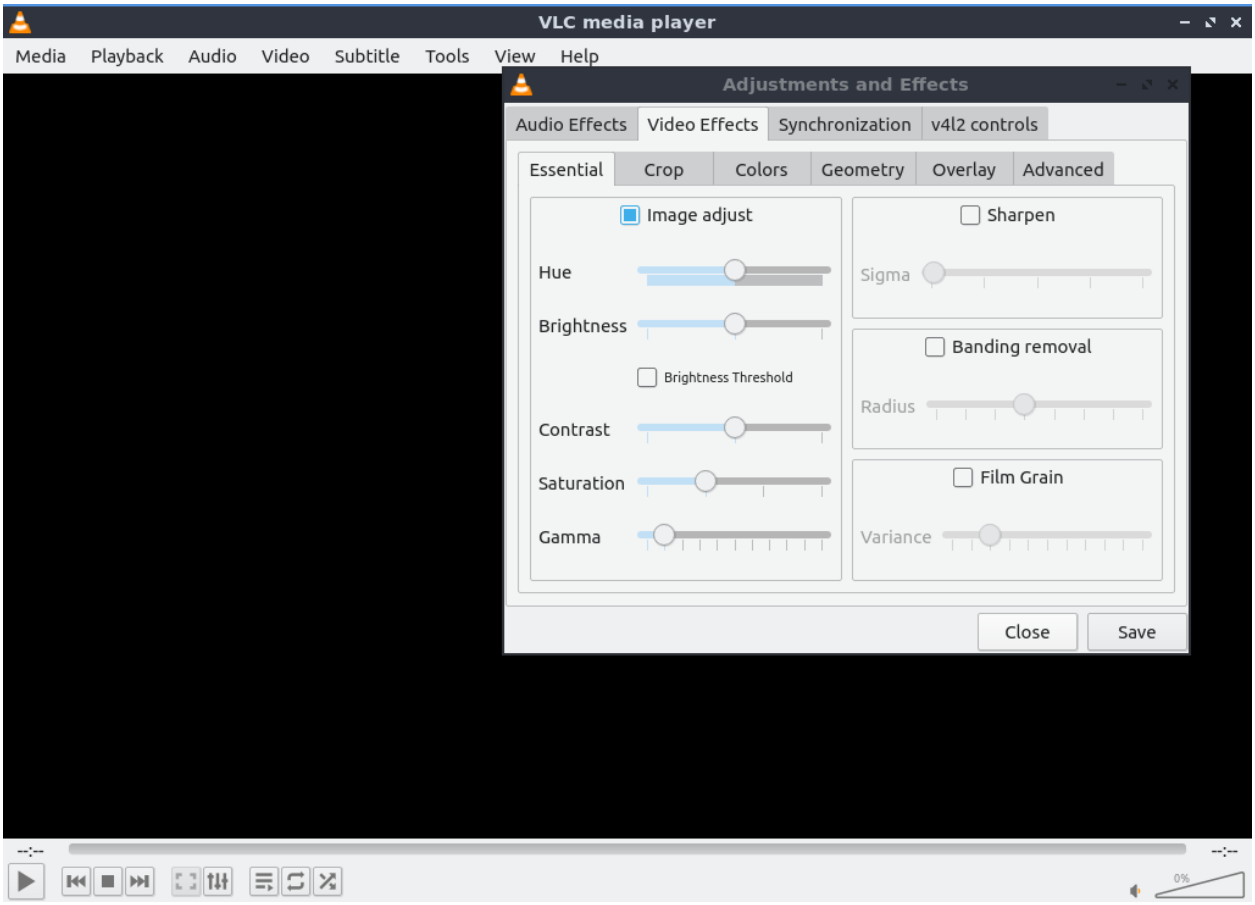
The setting for widening the width of a stereo are on the Stereo Widener tab. To toggle stereo widening check the Enable checkbox.

To change how the audio and video synchronize with the rest of the file use the Synchronization tab. To change the synchronization of your audio with the video change the Audio track synchronization field to get it to match with your video. To change the synchronization of subtitles use the Subtitle track synchronization field. To change how many frames per second your subtitles change at change the Subtitle speed field to change how many frames per second on your subtitle. To change how long the subtitle stays on the screen change the Subtitle duration factor.

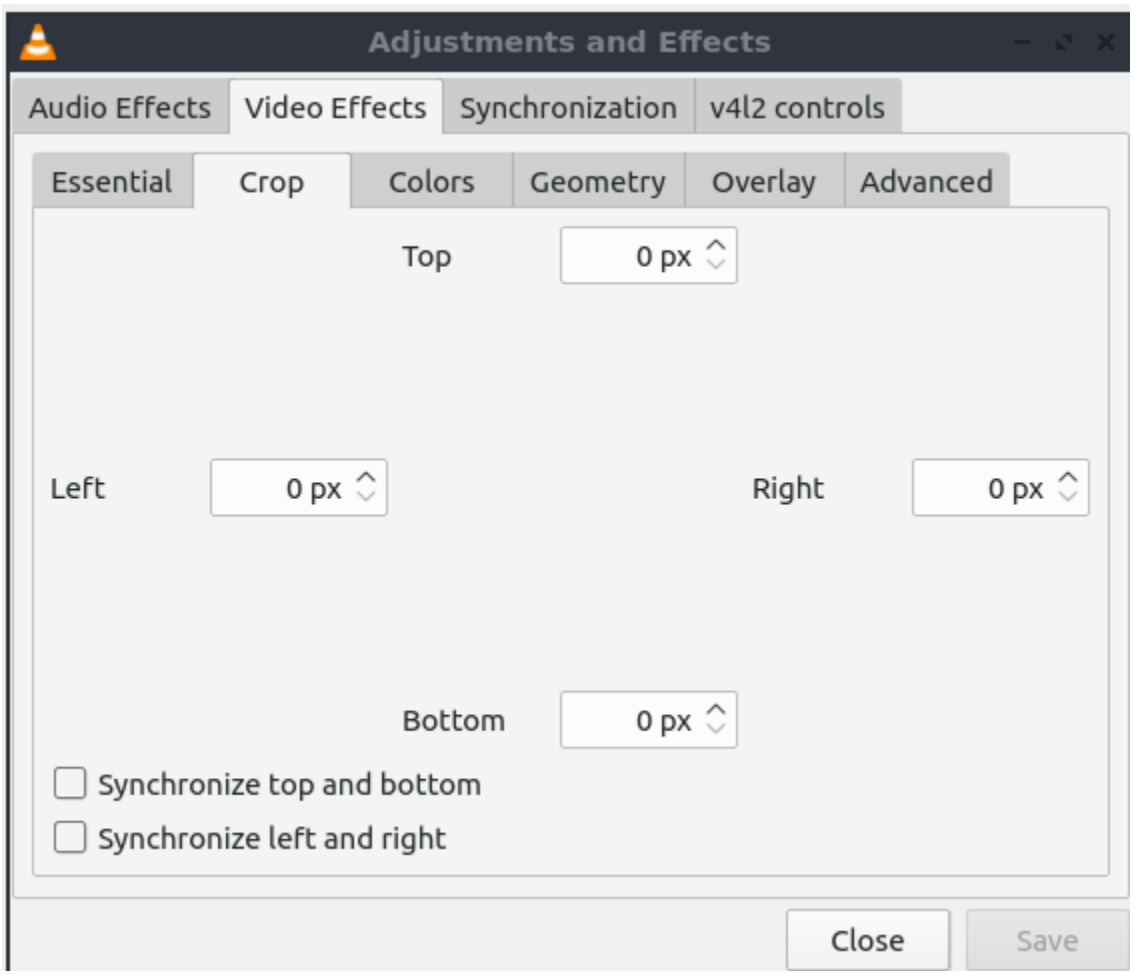


To change how the video appears on your screen use the Video Effects tab. On the Essential sub tab for how your brightness contrast and other things appear. To change your image press the Image adjust checkbox. To change the brightness use the Brightness slider with to the left being darker and to the right being lighter. However extreme values to the left or right are not that viewable. As such you may want to make small adjustments with the `Left arrow` and `Right arrow` keys. To change the color of the video use the Hue slider. To change the contrast use the Contrast slider with the left being lower contrast and the right being higher contrast. To change how saturated your colors are use the Saturation slider.

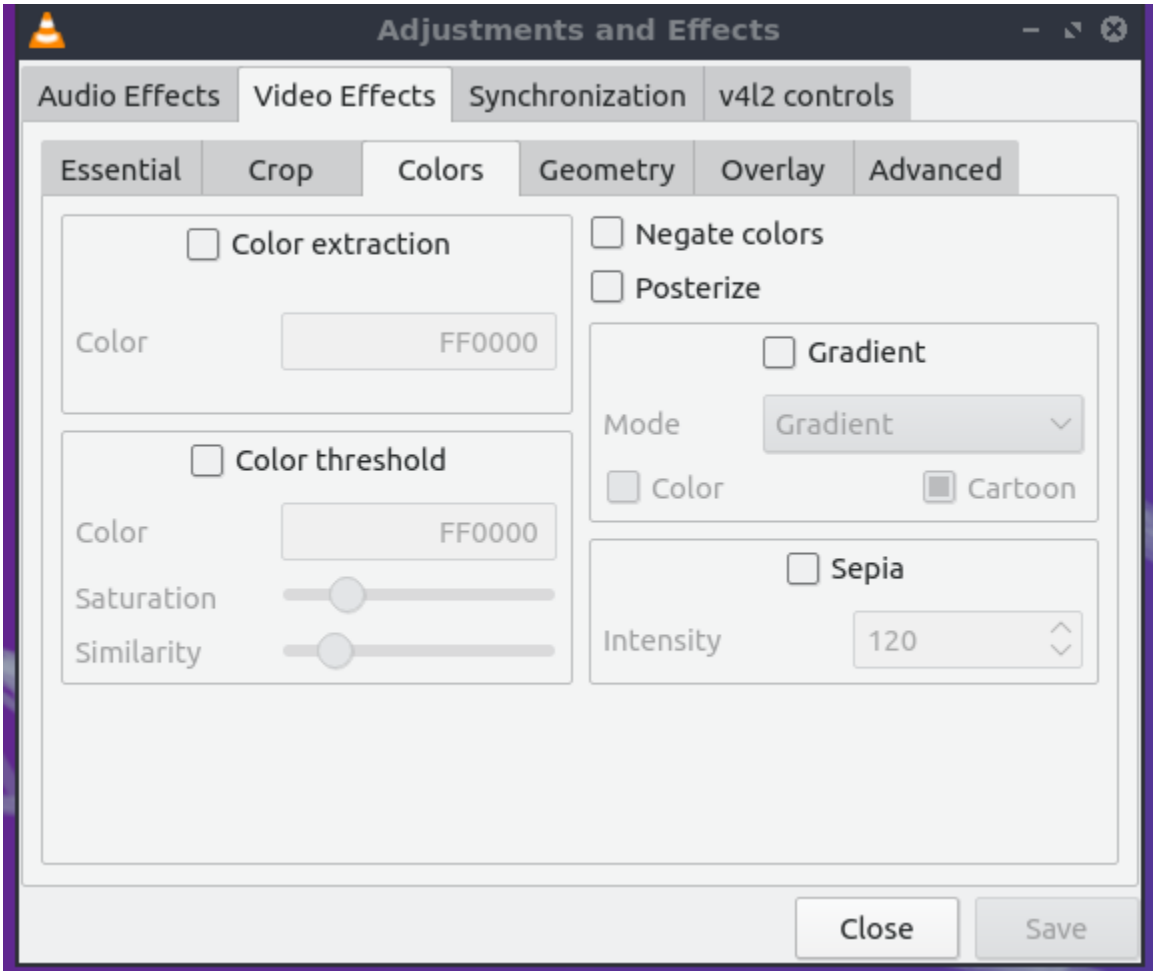
To removal horizontal lines from playing back a video check the Banding removal checkbox. To add a film grain effect check the Film Grain checkbox. To adjust how much the film grain varies slide the Variance slider.



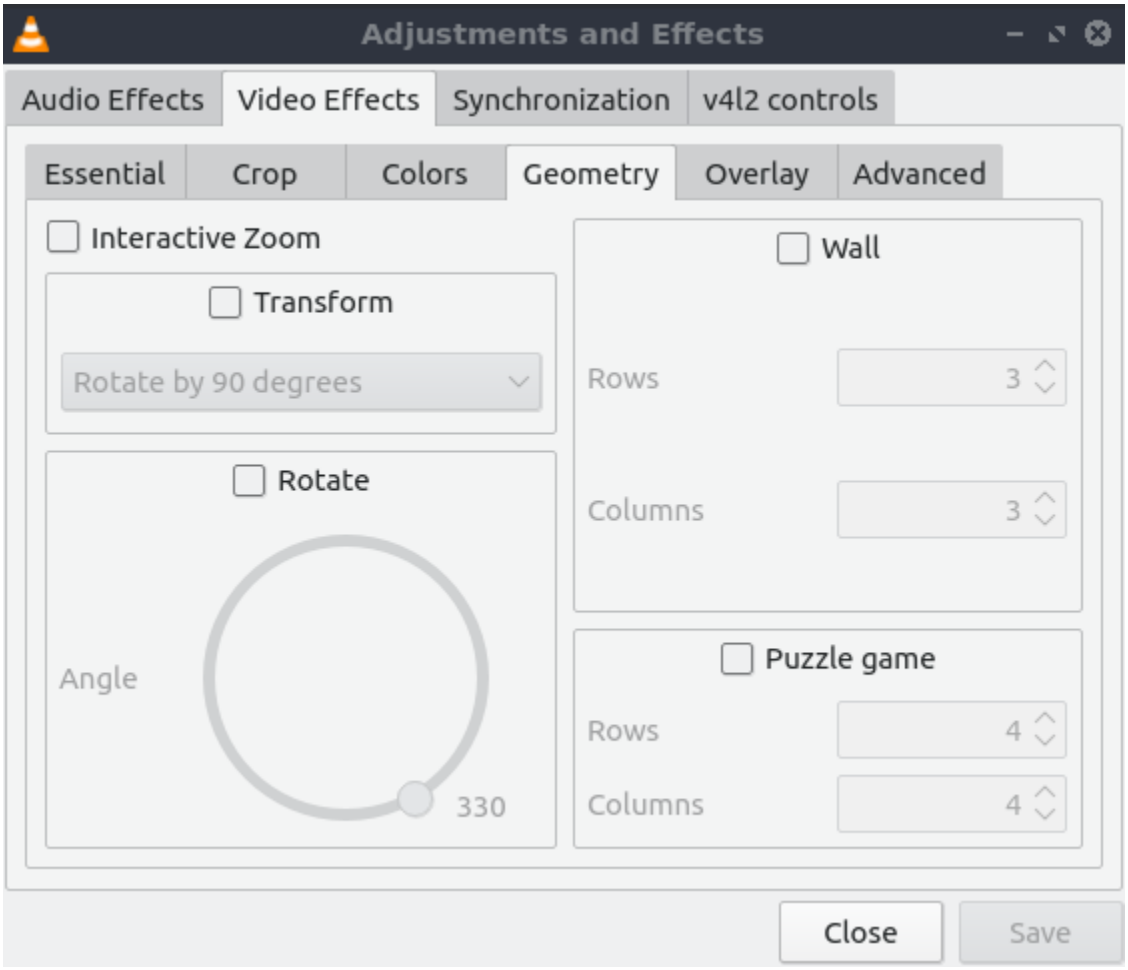
To crop pixels off the margins use the Crop subtab. To take a number of pixels off the top use the Top field. To take pixels off the left of the screen of the video use the Left field. To take pixels off the right side of the screen use the Right field. To take pixels off the bottom use the Bottom field. To have your top and bottom take the same number of pixels taken off the top and bottom check the Synchronize top and bottom checkbox. To take the same number of pixels off your left and right hand side check the Synchronize left and right checkbox.



To have settings to change the colors showing in VLC use the Colors subtab. To entirely invert colors check the Negative colors checkbox. To reduce the total number of colors on your video from slight transitions check the Posterize checkbox. To enable a sepia tone for the video check the Sepia checkbox. To have a close to black and white tone enter a low number in Intensity. To have a more sepia tone enter a higher number in Intensity.



To zoom or rotate a video use the Geometry tab. To choose different parts of the video to zoom in on as it plays check the Interactive Zoom checkbox. To do simple things like flip or rotate your video first check the Transform checkbox. To rotate your video 90 degrees to the right select Rotate by 90 degrees under Transform. To rotate your video 180 degrees to the right select Rotate by 180 degrees under Transform. To rotate the video 270 degrees to the right select Rotate by 270 degrees under Transform. To flip the image horizontally select Flip horizontally under Transform. To rotate your video by the number of degrees you want check the Rotate checkbox and then select which degree you want to have have the video rotated.



To add a logo to a video file check the Add logo checkbox. To choose which logo to add type the logo in the Logo field or press the ... button. Use the Opacity slider to change how transparent the logo appears. To change how far the logo is from the top in pixels change the top field. To change how far to put logo from the left of the video change the Left field.

Saving or Converting Files

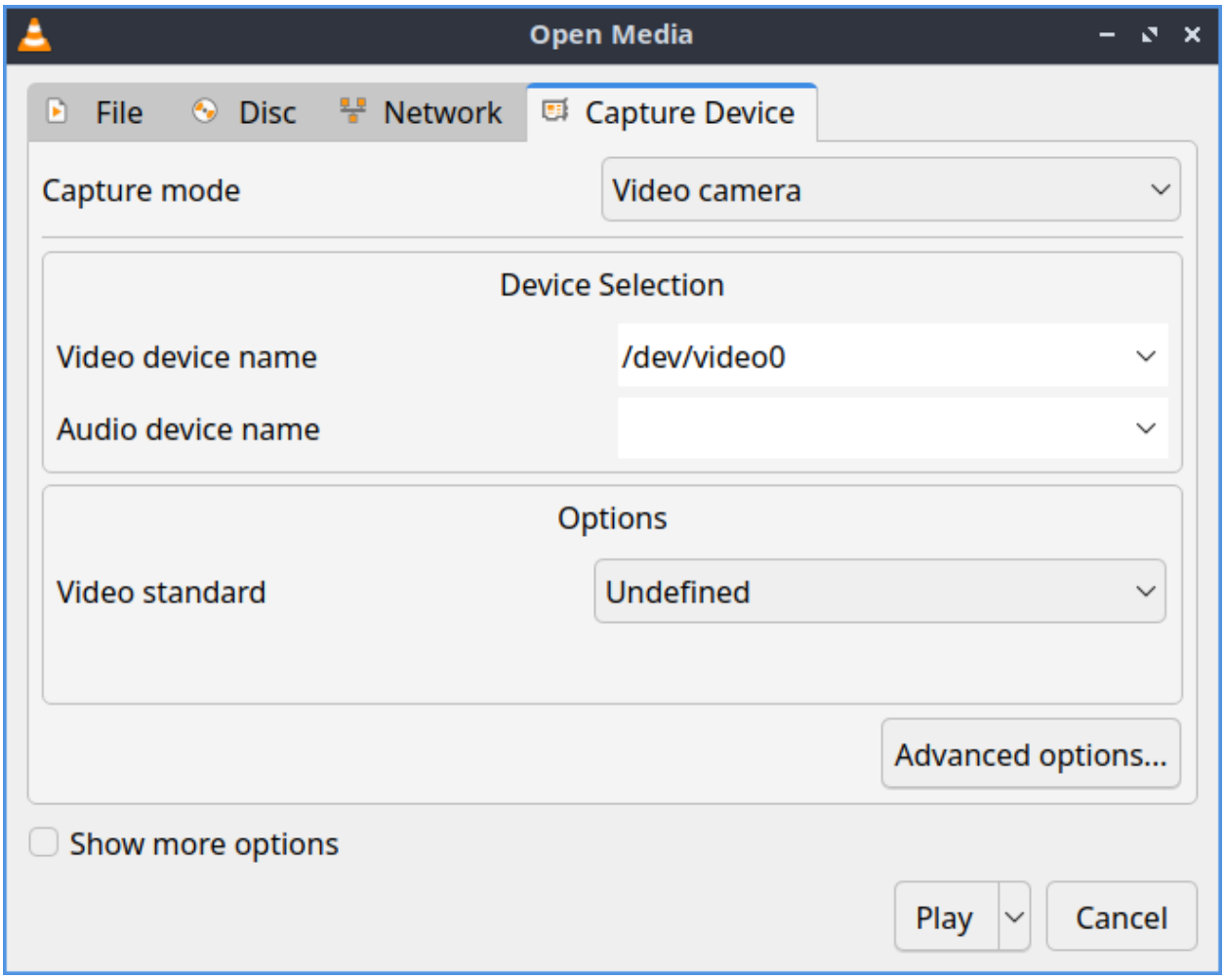
To save or convert a file in VLC press `Control+R` or Media ▸ Convert/Save and a dialog will pop up. To add a local file to save or convert use the File tab and press the Add button. To Save or convert files off a disc press use the Disc tab. To save a network URL to use the Network tab and enter the URL in the Please enter a network URL field. To convert or save a the files press the Convert/Save button.

To change what file format to convert to use the Profile drop down menu. To choose what file name to save your file use the Browse button. To start converting the file press the Start button.

Webcams

To open your webcam in VLC press `Control +C` or Media ▸ Open Capture Device to pop up a dialog to select your webcam. Then select your webcam in Video device name which can default to something like /dev/video0. To start showing your webcam click Play. To choose what video standard for your deice use the Video standard drop down. To have more options

on video settings press the Advanced options button.

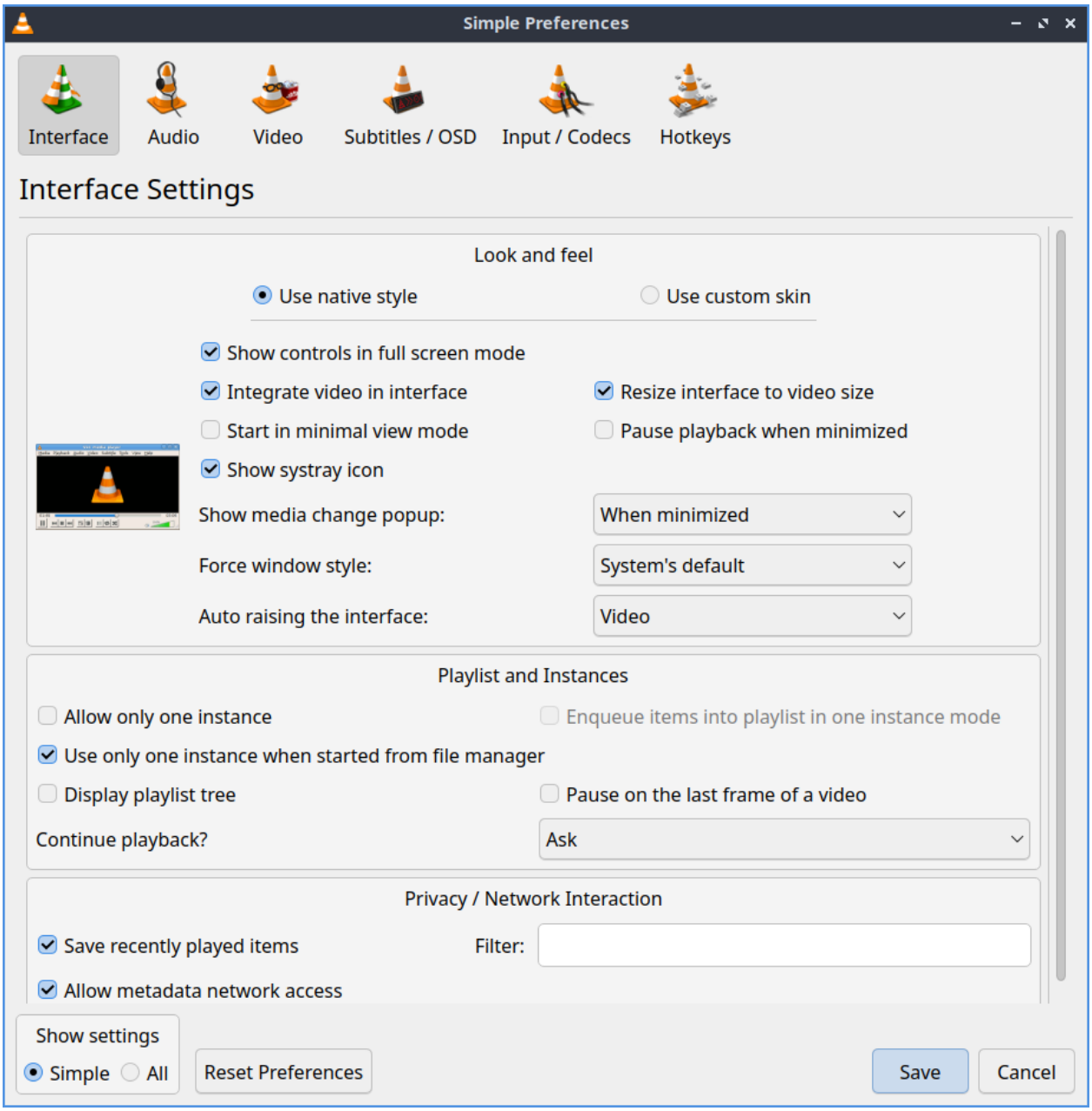


To take a still picture of your webcam then Video ▸ Take Snapshot. To record a video from your webcam once you can see everything looks good select Playback ▸ Record.

Customizing

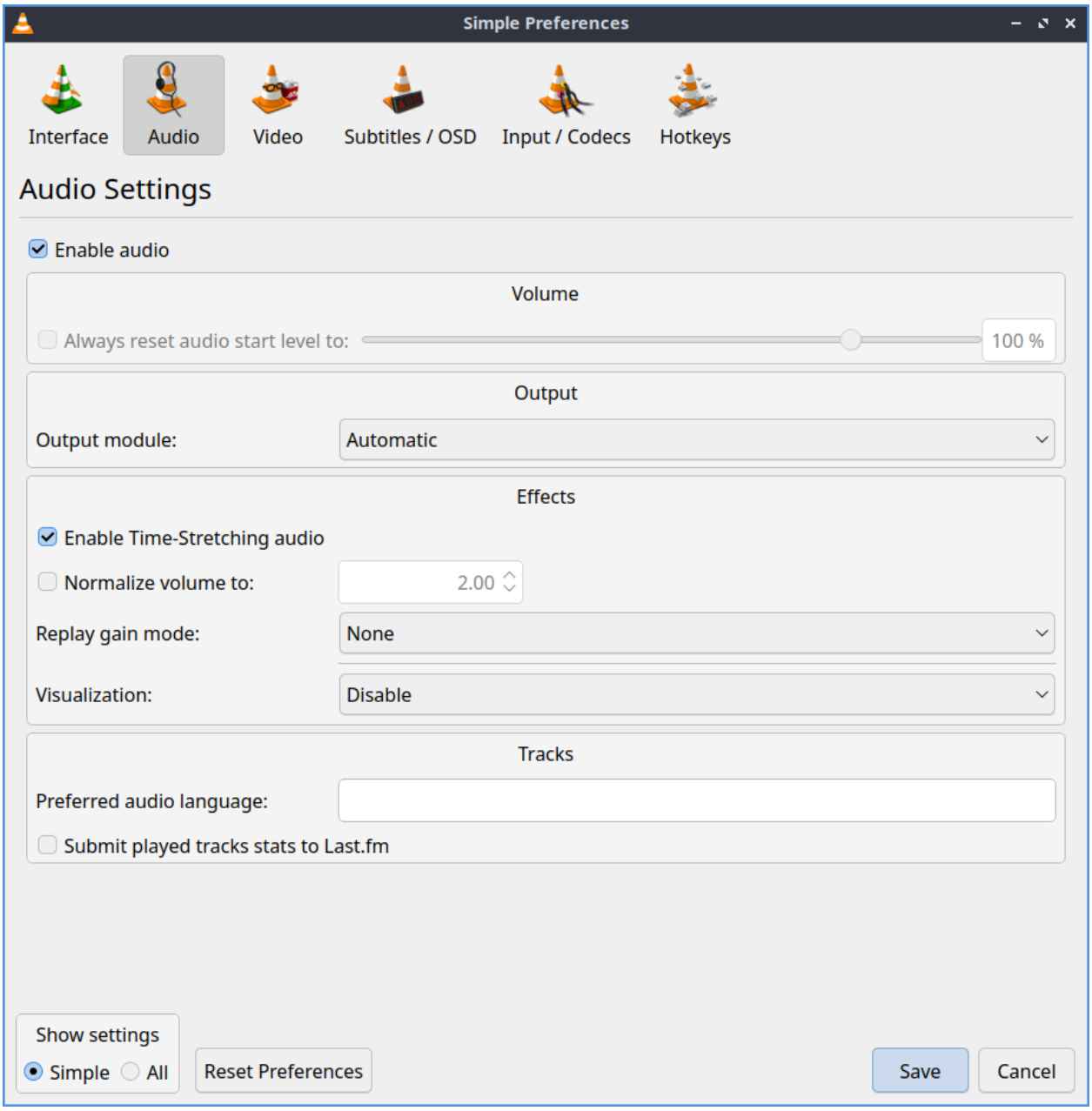
To view your preferences of VLC press `control` +P or Tools ▸ Preferences. To change how VLC looks and what buttons it has use the Interface tab. To choose to use a custom skin for VLC press the Use custom skin radio button and then press Choose to find your custom skin. To toggle showing buttons for pausing, changing tracks and the volume control check/uncheck the Show controls in full screen mode checkbox. To have the video display in its own window uncheck the Integrate video in interface checkbox. To start VLC in a minimal view mode check the Start in minimal view mode checkbox. To have VLC pause playback when the VLC window is minimized check the Pause playback when minimized checkbox. To toggle showing an icon in the system tray check/uncheck the Show systray icon checkbox. To change VLC showing a popup when the media changes like when having multiple files in a playlist change the Show media change popup menu. The Force window style changes the way VLC windows are drawn if you want a custom layout for just VLC. To allow only one window of VLC check the Allow only one instance checkbox. If you have only one instance check the Enqueue items into playlist in one instance mode checkbox to add new files to play at the end of the playlist. To have VLC continue playback of files changes change the Continue playback? menu and

select Always to always playback or ask to ask for playback.

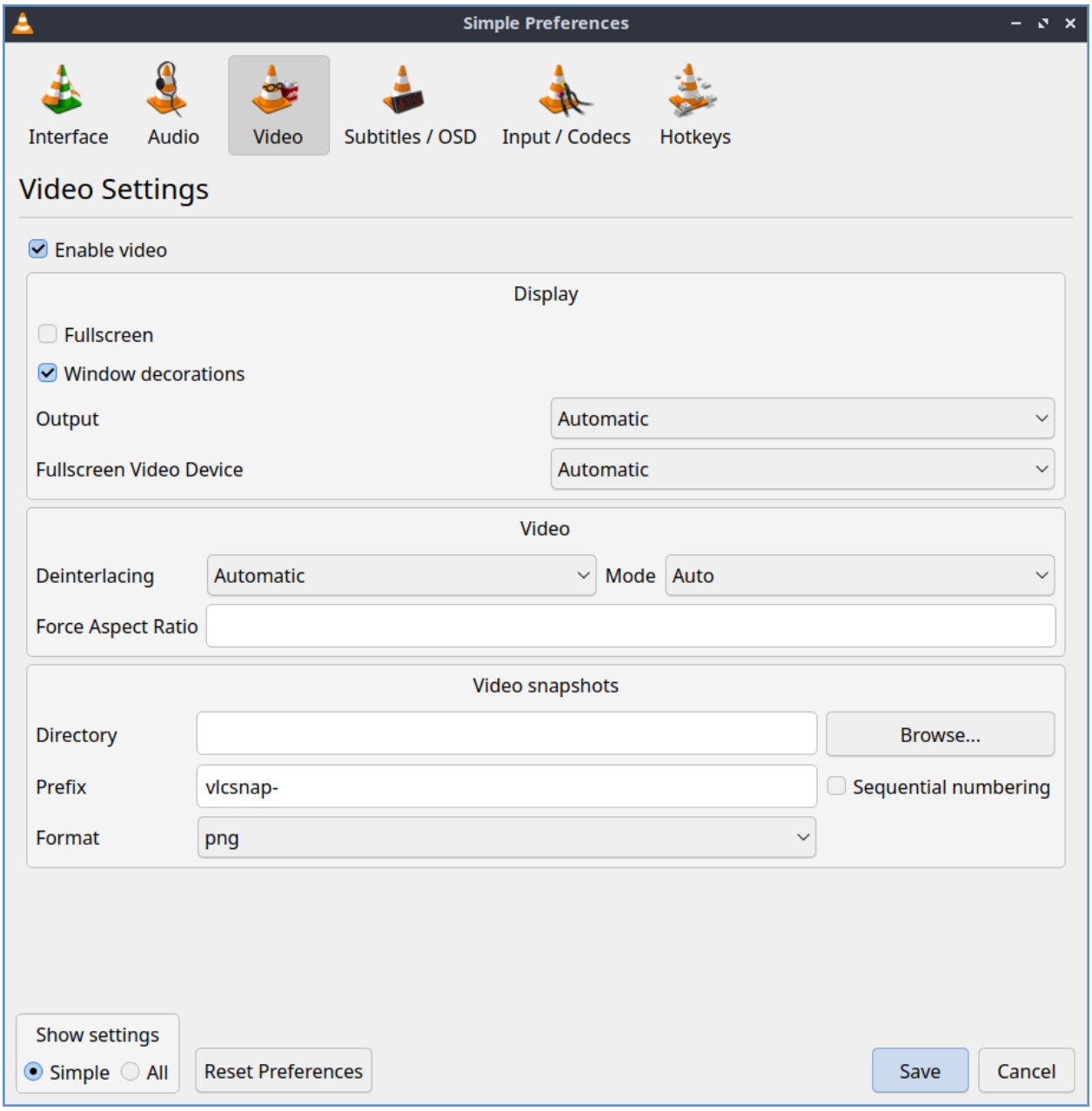


To cancel your changes in this window and close it press the Cancel button. To Reset your preferences to press the Reset Preferences button. To Save your preferences and close the window press the Save button.

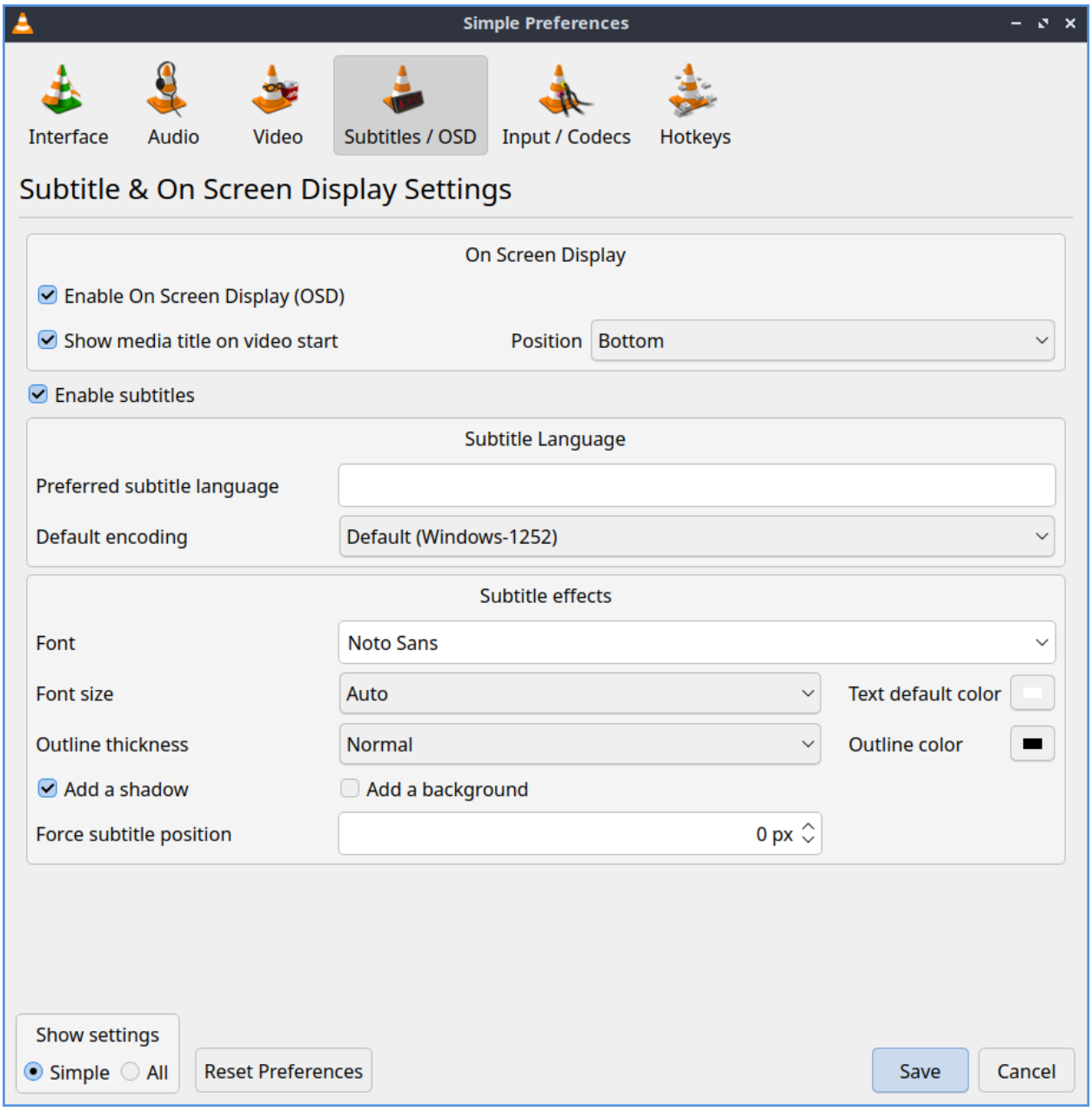
To manage your audio settings use the Audio tab. To disable audio entirely uncheck the Enable audio checkbox. To change the output of audio type change the Output module menu. To add a visualization of Audio change the Visualization menu. To change replay gain mode change the Replay gain mode menu. To allow playing audio at different speeds without changing the pitch is to check the Enable Time-stretching audio checkbox. To submit what tracks you play to Last.fm check the Submit played tracks stats to Last.fm checkbox and then put in your username in the Username field and your password in the Password field.



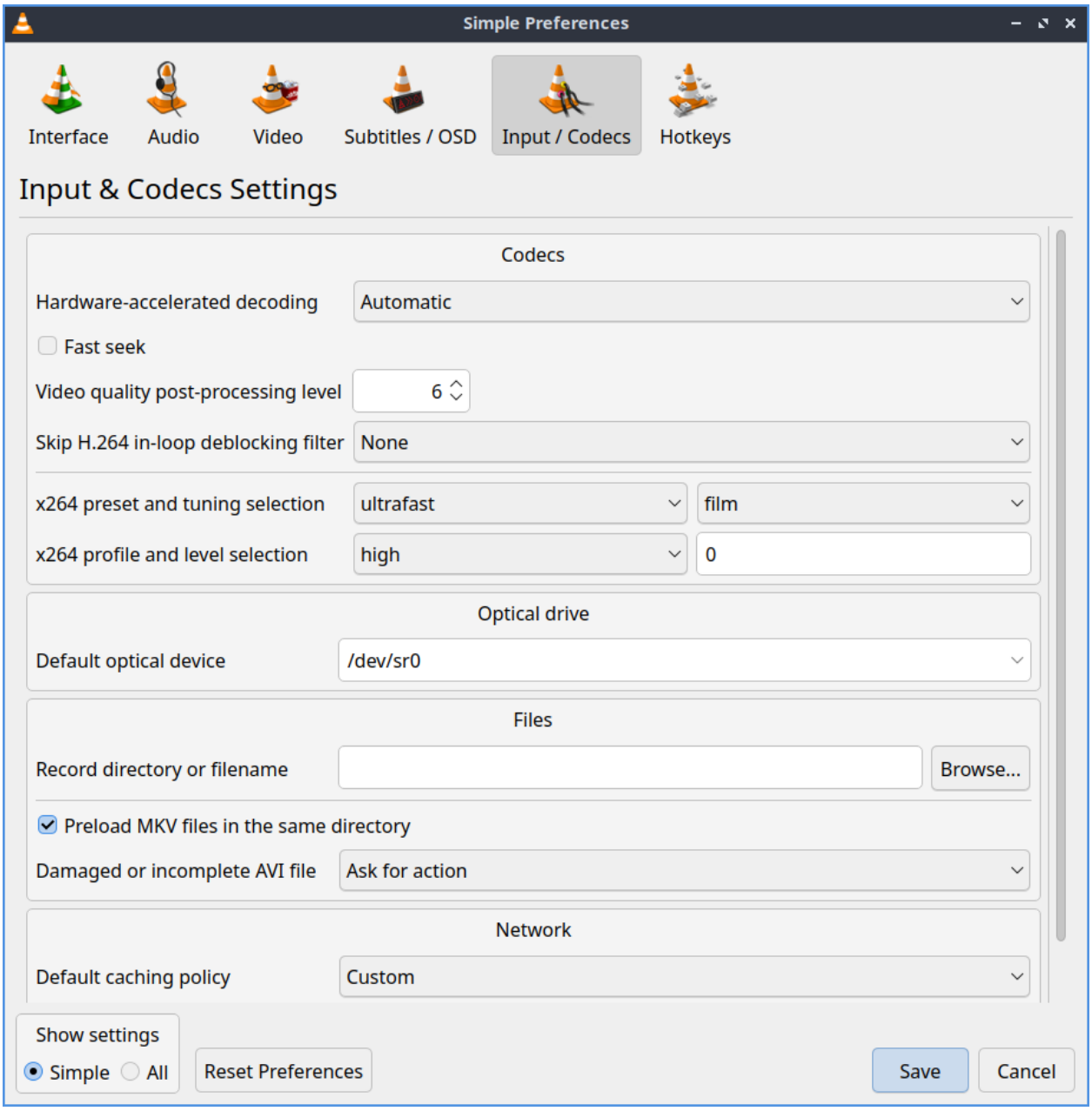
To change settings with how VLC deals with video use the Video tab. To disable video and thus save some processing power uncheck the Enable Video checkbox. To automatically have fullscreen video check the Fullscreen checkbox. To have window decorations on a separate video window check the Window decorations checkbox. The menu Fullscreen Video Device menu lets you select which monitor to play the full screen video on. To change the backend for VLC to play videos change the Output menu. To turn deinterlacing on or off change Deinterlacing menu. The mode Mode changes the mode to deinterlace the frames of video. The Video snapshots section shows settings for VLC snapshots. The Directory is what directory to save snapshots of videos in and to choose one in a pop up window press the Browse button. The Prefix field lets you have a preset to the snapshot file name. You can choose the format of the snapshot in the Format menu.



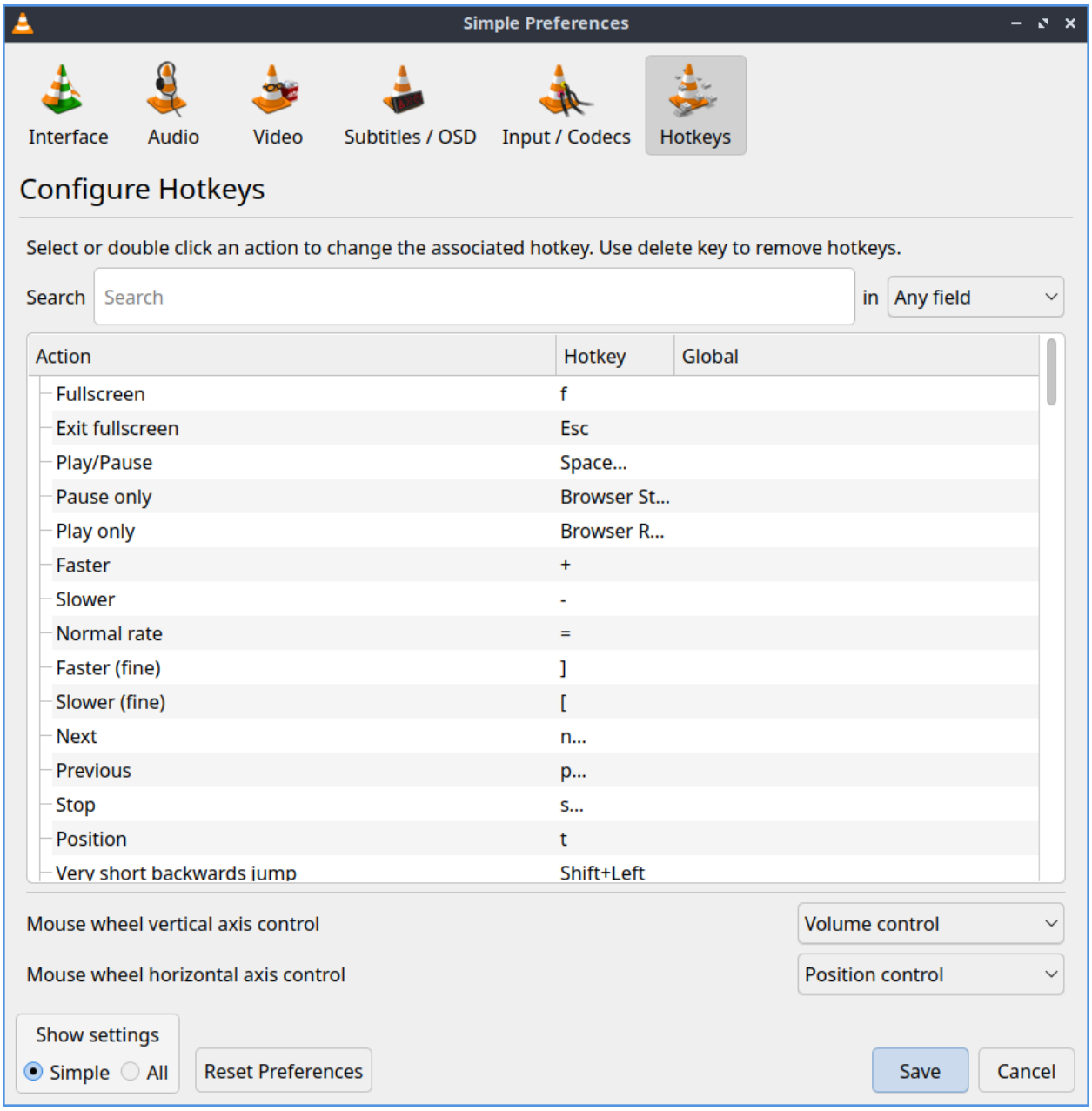
To view your settings for subtitles and on screen display choose the Subtitles/OSD tab. To disable the On screen display uncheck the Enable On Screen Display checkbox. The checkbox Show media title on video start shows the video title at the start of a video. The Position menu lets you choose where to show the media title. To toggle showing subtitles check/uncheck the Enable subtitles checkbox. The default encoding Lets you change how the subtitles are stored and resented as characters on this. To change the font of your subtitles type in the name of your font in the Font field. To change the font size of your subtitles change the Font size menu. The button Text default color lets you change your subtitles.To change the outline thickness of subtitles change the Outline thickness menu. To change the color of the outline press the Outline Color button to bring up a popup to select a color. To add a shadow to subtitles check the Add a shadow checkbox. To add a background check the Add a background checkbox.



To change settings with codecs choose the Input/codecs tab. To change your settings for hardware-accelerated decoding use the Hardware-accelerated decoding which you can choose a specific kind of decoding. To choose to seek faster than more precisely check the Fast seek option. To the quality of video VLC encodes change x264 preset and tuning selection which faster recording taking less resources but being less quality. To change your default optical device the drop down menu next to Default optical device to change your default optical device. To choose where save things you record with VLC change type where you want in Record directory or filename or press the Browse button. To change your caching policy depending on your network latency use the Default caching policy drop down menu. If you use an HTTP proxy you can set it in HTTP proxy URL.



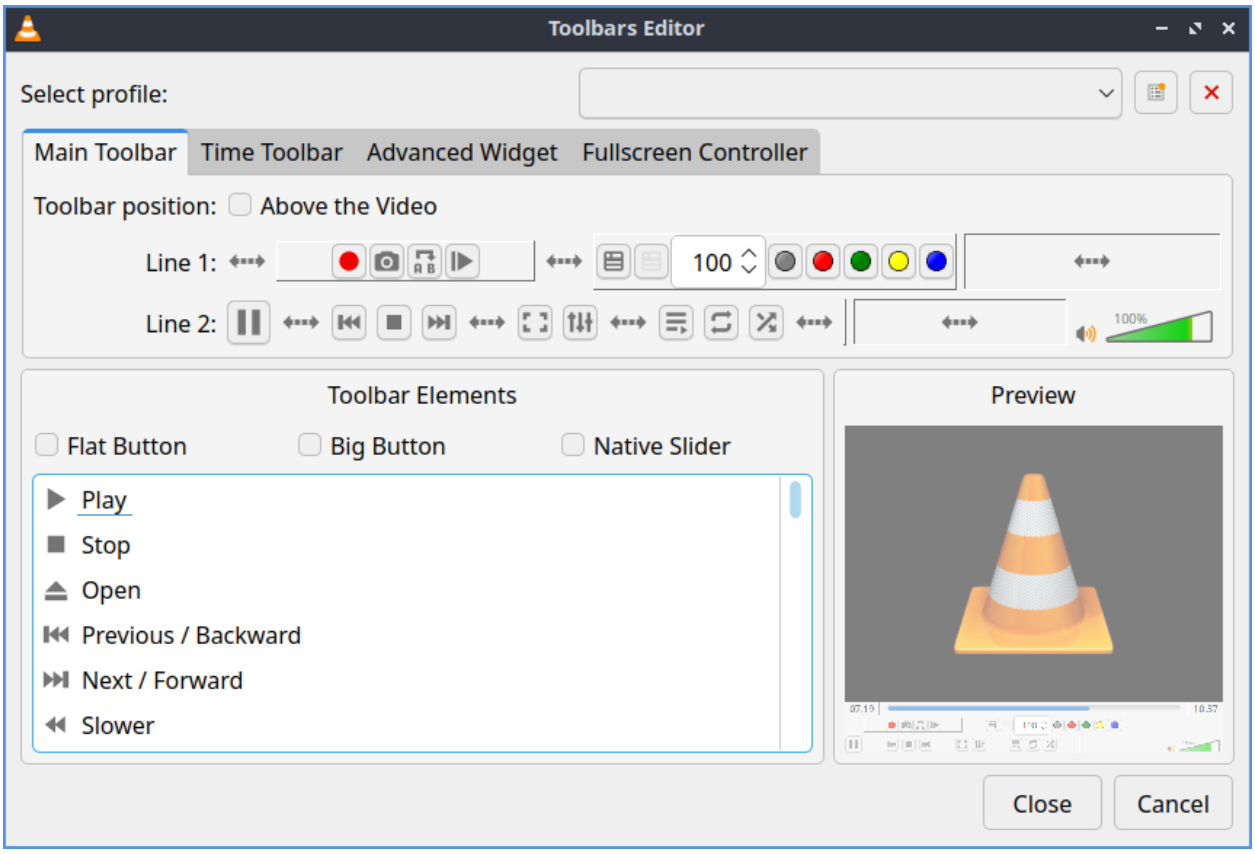
To view your hotkey settings use the Hotkeys tab. The column Action describes what your keyboard shortcut will do. The Column Hotkey is the keyboard shortcut to do what is said in the Action column. To change your keyboard shortcut double click on the shortcut in the Hotkey column and press the keyboard combination you want to set it to. To change what scrolling vertically does for use the Mouse wheel vertical axis control menu. To search for a hotkey for a particular option enter it in the Search field.



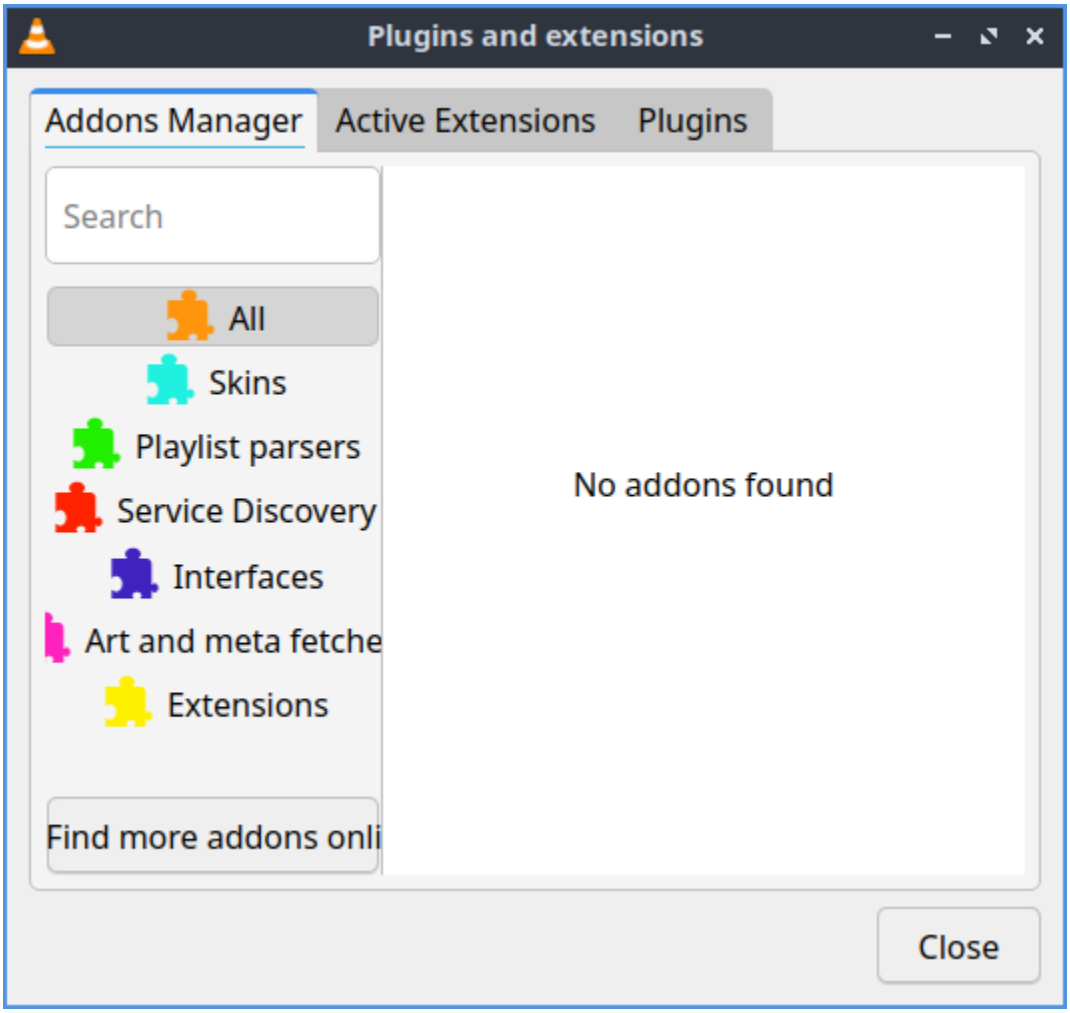
To change to view even more settings press the All button in the Show settings part of your preferences. To switch back to simple settings press the Simple button. To search for a setting in the Advanced settings interface use the Search bar.

To change how the user interface of VLC appears Tools ▸ Customize Interface. To select a profile that works as a default some ones for older versions of VLC choose the Select profile: drop down menu. To create a new profile press the button to the right press the paper with a sun on it. To move the main toolbar above the video check the Above the video checkbox. Below will be the lines of each toolbar for example Line 2 for each line of toolbar. To see a summary of what each button does hover the mouse over it and a description will pop up.To move a button to the left or right left click and drag to the left and right the button to the desired position. To see a preview of how this will effect the media player and see it press the Preview section of the window.

To change the elements for the time toolbar use the Time toolbar tab. To move elements on the time toolbar left click on the element and drag it into place. To change the location of advanced features use the Advanced Widget tab. To move the elements on the advanced toolbar left click on the element and drag it into place.



To view plugins and extensions dialog window Tools ▸ Plugins and Extensions. To download more extensions press the Find More Online button. To view only plugins you have installed on your system check the Only installed checkbox. To view all addons click on the All tab of addons. To view only skins to view VLC differently press on the Skins tab. To view an extensions to add on click on the Extensions tab.



To show your Active extensions use the Active Extensions tab. To reload to see if there are any more press the Reload extensions button. To see more information on an extensions press the More information button. To change how many frames per second are on the subtitles change use the Subtitle speed field. To change how long the subtitles stay on the screen change the Subtitle duration factor field.

Version

Lubuntu ships with version 3.0.23 of VLC.

How to Launch

to launch VLC in the menu go to Sound & Video ▸ VLC media player or run

```
vlc
```

from the command line. The icon for VLC looks like a traffic cone.

2.3 Chapter 3 System Tools and Preferences

This chapter documents tools to manage your system, change preferences, and themeing Lubuntu. The programs that Lubuntu uses for Installing or Removing Software while in The System Tools and Prefrences menu categories are documented in Chapter 4 Installing, Updating, and Removing Software.

2.3.1 Chapter 3.1 System Tools

This chapter documents tools to administer your system.

Chapter 3.1.1 htop

htop is an ncurses text interface task manager that can be controlled by the keyboard. htop also closes unresponsive programs by killing the process.

Usage

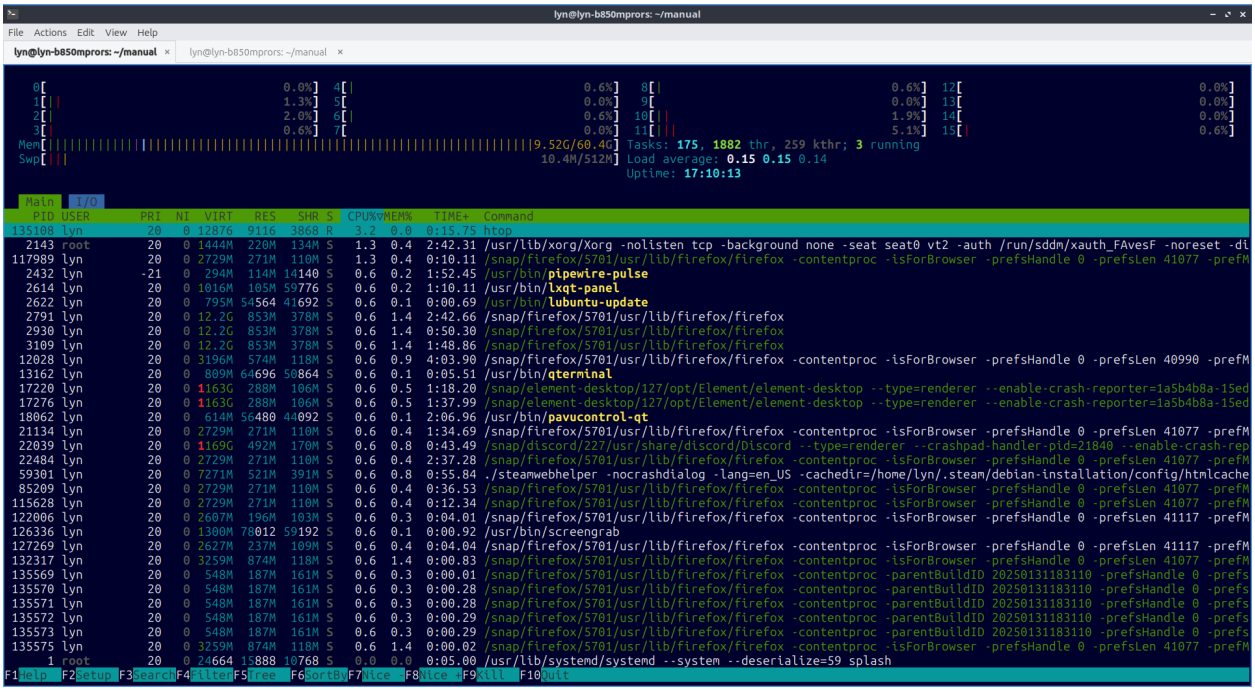
To view how much RAM is being used on your system is under Mem and then a [number based on how many Gigabytes of memory. The Swp line lists how much swap is used. The numbers going down with a bar with a percentage next to them display CPU usage on each of your CPU cores.

To see how many process are running on your system see the Tasks row. Load average shows your system load over the past one five and fifteen minute is why there are three numbers see Wikipedia load (computing)[21] for more information. Uptime shows how long your computer has been booted.

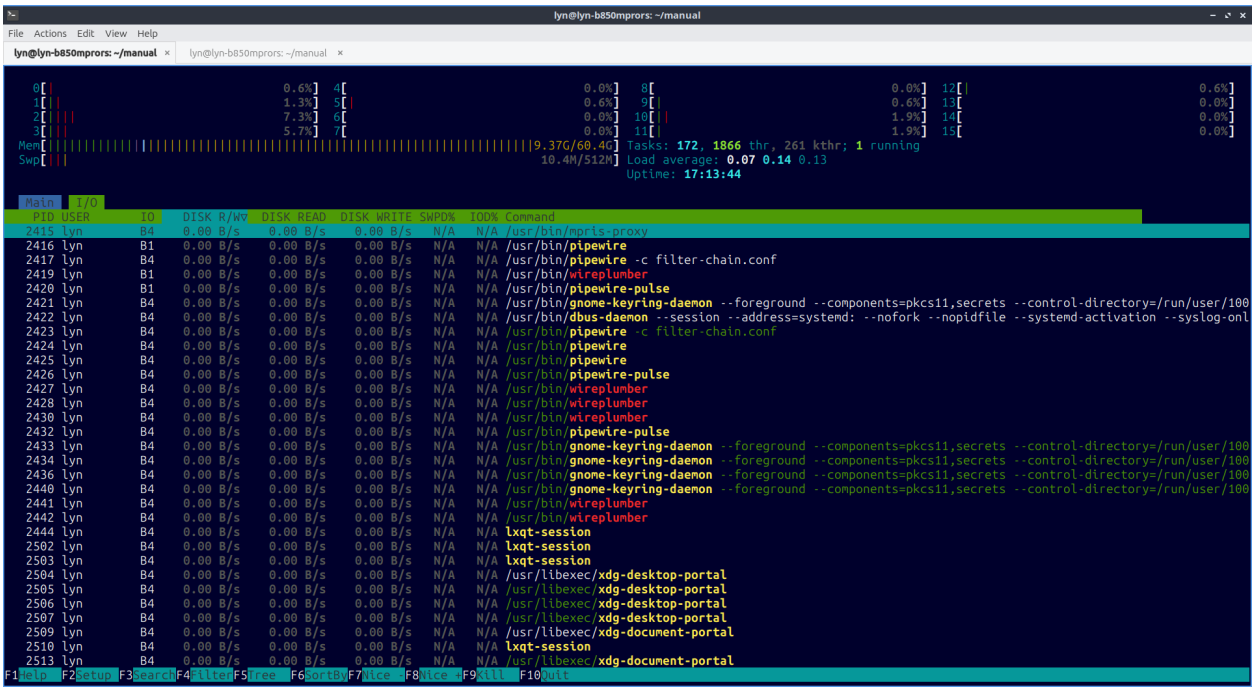
After the bottom there is a green bar that says PID for the Process ID of a user, The user the process responds to, RES is how much RAM the process is currently using. CPU% shows how much as a percent of CPU time the process is using, MEM% is a percent of the RAM your process is using. Time shows how long the process has been running. Command shows the command line command of the process. To view any cut off part of the Command field press the `Right Arrow` to view the cut off area of the window. To move your window back to where it was press the `Left Arrow` key.

To select the process below the currently selected one press `Down Arrow` to select the process below. To select the process above the currently selected one press `Up Arrow` to select the process above. To select the next group of processes on your screen press `Page Down` or move the scrollwheel on the mouse down. To select the previous group of process on your screen press `Page up` or move the mousewheel up. To choose the last process on your system press the `End` key. To choose the first process press the `Home` key.

[21] https://en.wikipedia.org/wiki/Load_(computing)



To see what is writing to your hard drive or solid state drive press the Tab key to see how much is being written or read. To see the process id of something writing to disk read the PID column. To see what user is reading or writing to disk read the USER column. To see the total of your disk being read or written by a process see the DISK R/W column. To see how much is being read from storage read the DISK READ column. To see how much is being written to storage see the DISK WRITE column. To see what command is reading or writing to disk read the Command column. To change how to sort which I/O options are taking place press F6. To switch back to viewing CPU and memory usage press Tab again.



You can press F1 or ? to bring up a help dialog on htop. Pressing F3 or / lets you search for

a particular process. Pressing F4 makes it so you can only see processes matching a certain pattern. To get out of the view of your search for a pattern press the Escape key. To reverse sort order press Shift +I. Pressing F5 is what you press to view the processes in a tree. To get back to the default view press F5 again. Pressing F9 lets you kill a process with different signals to send to the process and 15 will terminate the process while 9 will Kill it. Lastly pressing F10 or q will quit htop and return you to a terminal.

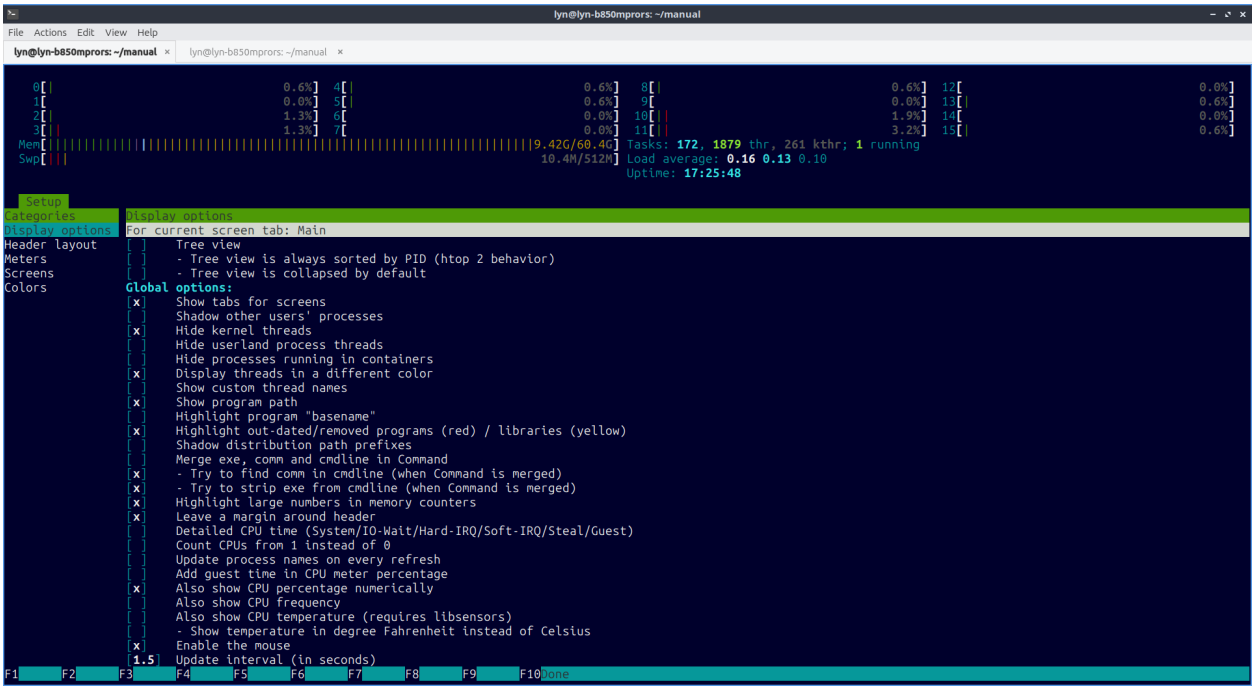


To change how your process are sorted press F6 which will bring up your own menu to sort by by PID, USER, Priority, NICE, M_Size, M_Resident, M_Share, State, Percent_CPU, Percent_Mem, Time, or Command. To select a menu item press Enter.

Customizing

F2 brings about a customizable settings on htop. To close settings press F10.

The Display Options tab has option for different ways to display in htop. To move between options press Up Arrow or Down Arrow. To toggle an option on press Spacebar. The Colors tab brings up different color schemes for htop. To select a different color scheme press the Up Arrow or Down Arrow keys. To select a new color scheme press the Spacebar key.



To change the header columns of htop on the top select Header layout tab. In each of these options the numbers on the right represents the width of the column as a percentage of the window.

The Meters tab brings up meters like CPU average. To see what kind of meter you have it will be shown in brackets. To move a meter press Enter and press the arrow keys to move in the direction of the meter you want to select. To save a meter in that place press Enter again. To delete a meter press Delete. To add new meter move all the way to the right by pressing the Right arrow under Available meters. To add a meter press Enter and to select which one press the arrow keys.

To change settings on the main or io screen use the Screens tab. To choose which screen to change settings for use the Screens column. To see what columns are currently active on a

screen use the Active columns column. To move a column up press F7. To move a column down press F8. To remove a column press F9. The Available Columns column lets you add additional columns you can add. To add a column press F5.

To choose a different color scheme for htop use the Colors tab on the setup menu. To choose a color scheme press Spacebar or left click on it to select that color scheme.

Version

Lubuntu ships with version 3.5.2 of htop.

How to launch

To launch htop from the menu System Tools ▸ Htop with the Icon that looks like the green H made out of text or run

```
htop
```

from the command line.

Chapter 3.1.2 QTerminal

QTerminal is the default terminal of Lubuntu. It also has a drop down version. If you want to learn more about the actual commands you run in the terminal see Appendix C[22]

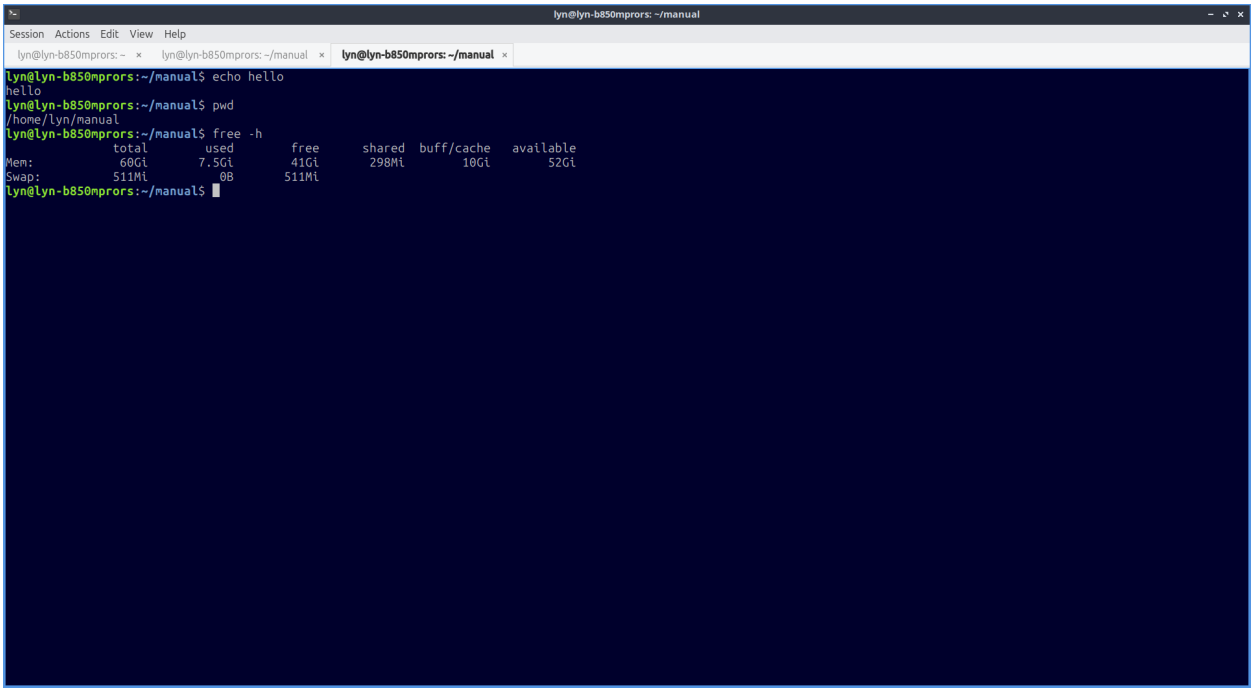
Usage

To enter a command into QTerminal type the command in and press Enter. After you do this the command will display its output on the line below where you have entered it.

To open a new tab go to the Session ▸ New Tab or press control + shift + t. You can also open a new tab by double clicking empty space on the tab bar. To close a tab press the X button near the right hand side of the tab, Session ▸ Close Tab, or press Control+Shift+W. You can change between tabs by left clicking on the tabbar on the tab you want to switch to. To open a new tab with 2 terminals split top bottom select Session ▸ New Tab From Preset ▸ 2 Horizontal terminals. To have one split terminal left and right next to each other Session ▸ New Tab From Preset ▸ 2 Vertical Terminals. To open a new tab with 4 terminals use Session ▸ New Tab From Preset ▸ 4 Terminals. If you want to switch between tabs click on the different click on that tab or press the left and right arrows in the upper right corner to see different tabs if you can't see them all. Another way to switch between tabs is control + page up or control + page down.

If you want to copy text from the terminal press control + shift + c or Edit ▸ Copy Selection to copy text. If you wish to paste text into the terminal you can control + shift + v, right click and select Paste Clipboard, or Edit ▸ Paste Clipboard however you should be really careful it is not a malicious command and shows the command you are pasting in. If you want to paste selected text in the terminal press Shift + Insert or Edit ▸ Paste Selection. If you want to open a new terminal window Control+ Shift+ N or go Session ▸ New Window. To try to autocomplete the command you type in a command line press the Tab key. To see what else a command could be hit Tab twice.

[22] https://manual.lubuntu.me/C/command_line.html



If you get a URL in your terminal you can right click Copy Link Address to copy the link. To open your link directly press `Control + left click` or right click on the link and select Open Link. To zoom in on the terminal press `Control + Shift + +`, Edit ▸ Zoom in, or right click and select Zoom in. To zoom out press `Control + -`, Edit ▸ Zoom out, or right click Zoom out. To return to the original zoom press `Control + 0`, Edit ▸ Zoom reset, or right click and select Zoom reset. If you want QTerminal to be fullscreen press `F11` or View ▸ Fullscreen to make it fullscreen then `F11` or View ▸ Fullscreen again to make it back to its original size.

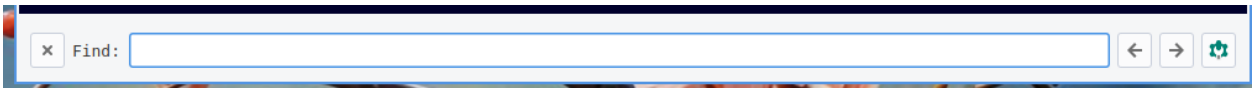
To scroll upward in QTerminal scroll upwards with the mousewheel and you can see the results of previous commands you have run. To scroll downward scroll downward on the mousewheel. To go all the way back to the bottom start typing and it will focus on the bottom.

To split your terminal vertically into two terminals on top of each other Actions ▸ Split View Top-Bottom. To have one split terminal to the left and one to the right Actions ▸ Split View Left-Right. To collapse back to how your terminal back to how they were before Actions ▸ Collapse Subterminal. To switch between the two split terminals click on the terminal you want. To switch to the lower split terminal press `Alt + Down arrow` or Actions ▸ Bottom Subterminal. To switch the top subterminal press `Alt + Up arrow` or Actions ▸ Top Subterminal. To switch to the left subterminal press `Alt +Left arrow` or Actions ▸ Left Subterminal. To switch to the right subterminal press `Alt +Right arrow` or Actions ▸ Right Subterminal.

To change to the next tab using the keyboard press `Control + Page Down` or Actions ▸ Next tab. To change to the previous tab using the keyboard press `Control+ Page up` or Actions ▸ Previous Tab. To move to a tab to the right Actions ▸ Move tab to the right or press `Alt + Shift + Right Arrow`. To move a tab to the left Actions ▸ Move tab to the left or press `Alt + Shift + Left arrow`. To go to a particular tab Actions ▸ Go to ▸ tab x where x is the tab you want to go to.To move to the tab you had before Actions ▸ Previous Tab in History or press `Control+ Tab`. To move to the next tab before that Actions ▸ Next Tab in History or press `Control+ Shift + Tab`.

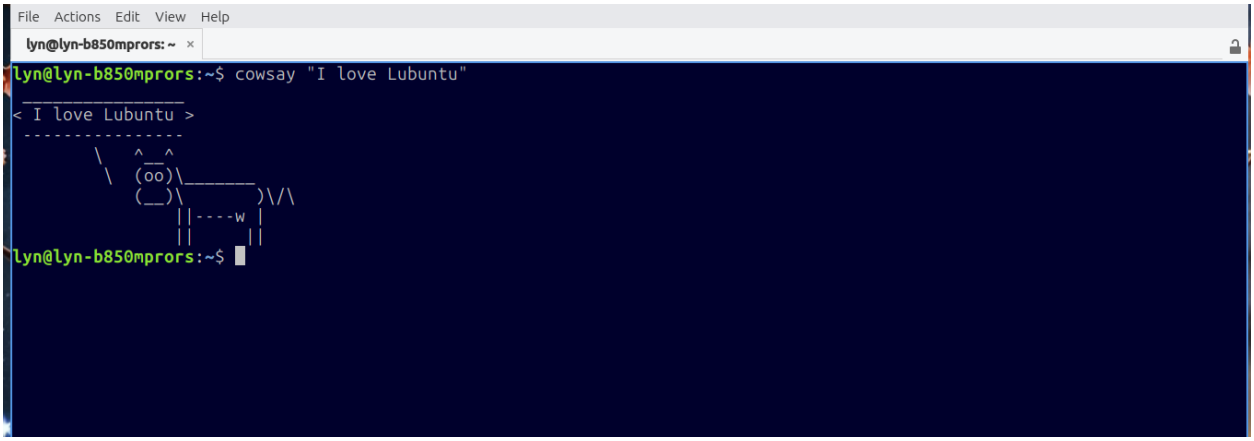
To bring a search for the text displayed on your terminal press `Control +Shift +F` or Actions ▸ Find…. To close the search bar press `Escape`, the x button, or `Control+Shift+F` again. To find what you need to search for in the Find search bar. To move to the next result press the rightward pointing arrow button. To move to the previous result is to press the leftward

pointing arrow. To change to not to match case press the gear button uncheck the Match Case checkbox. To toggle highlighting all matches check/uncheck the Highlight all matches checkbox. To use a regular expression click the downward pointing arrow button and check the Regular expression checkbox.



To clear you active terminal press `Control + Shift +X`, right click Clear Active Terminal, or Actions ▸ Clear Active Terminal. To toggle hiding window borders, window decoration, and the window titlebar check the View ▸ Hide Window Borders or right click and select Hide Window Borders. To toggle showing the entire menubar press `Control+Shift+M` or right click on the Toggle Menu then do the same thing to get the menu back again. To toggle showing the tab bar View ▸ Show Tab Bar. To change which side of the terminal the tab bar is View ▸ Tabs Layout.

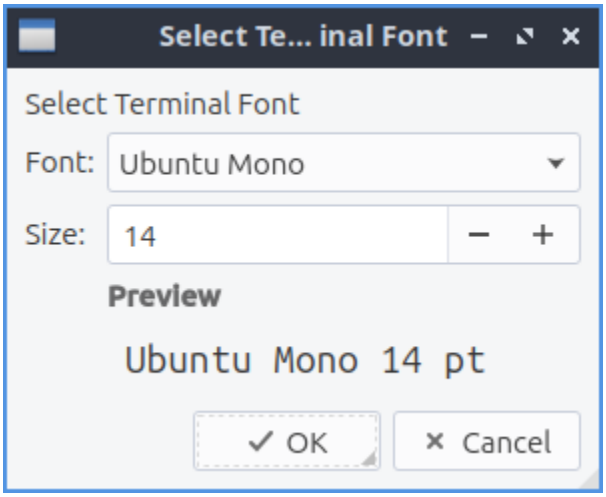
To use the drop down function of QTerminal once launched press `F12` to have the terminal drop down or roll up. When you click outside the drop down terminal it will autohide. If you don't want QTerminal to autohide press the lock button on the upper right hand side. To have QTerminal drop down autohide again unclick the lock button.



To rename a tab press `Alt+Shift+S` or right click on the tab bar and select Rename session and then press the OK button in the popup. To change the color of the tab Change title color menuselection. You can also close a tab by right clicking on it and select Close session. To view your history in a separate program you set in preferences Actions ▸ Handle history.

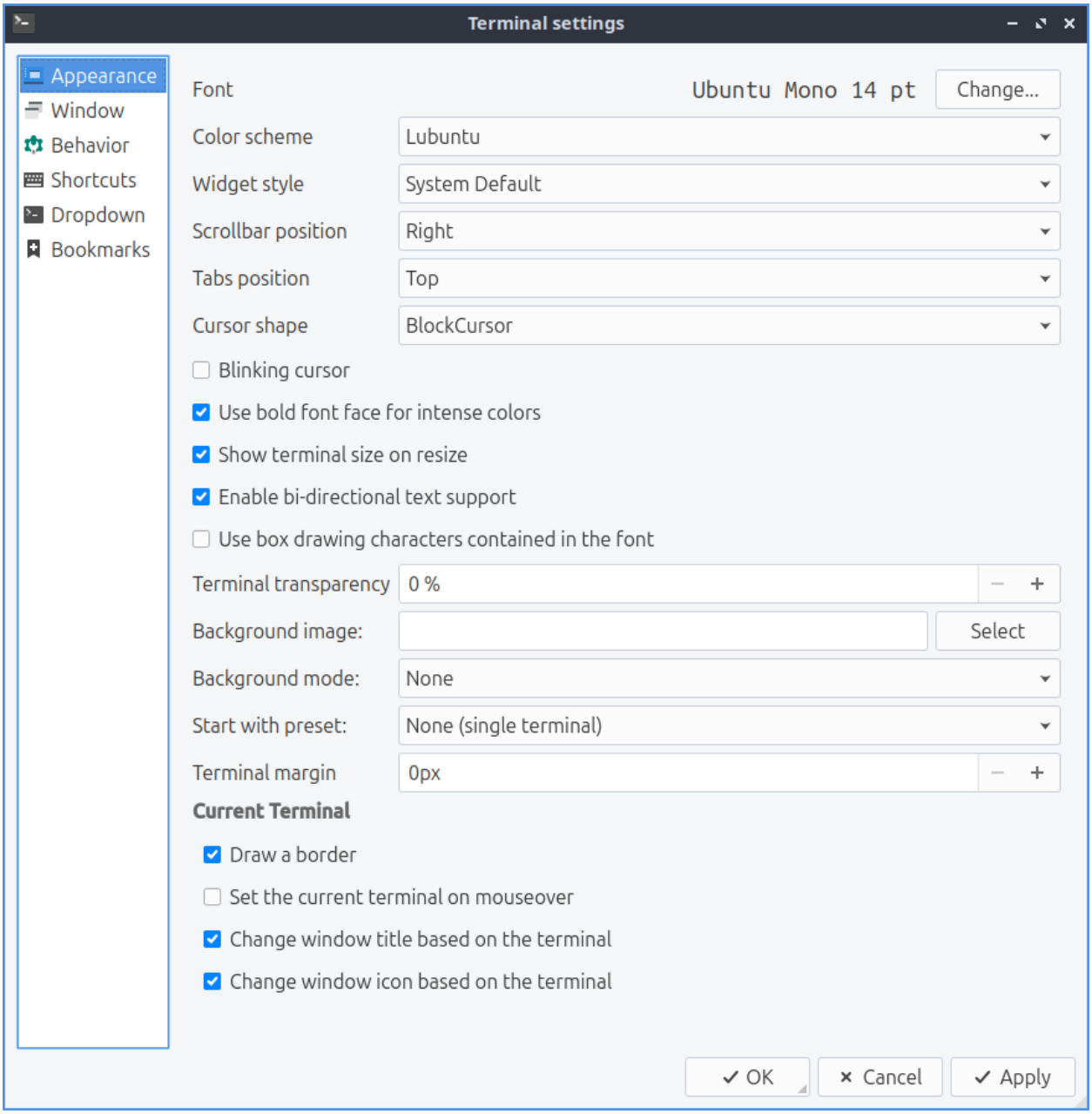
Customizing

To change your preferences go to Session ▸ Preferences or right click the terminal and Preferences. The Appearance tab shows how the terminal looks. To change your font press the Change button next to the Font label and a dialog will show up. To change the font size enter it in the Size field. The terminal works best with monospaced fonts which often have mono somewhere in their name. To change your font use the Font drop down. To see how your font looks look in the Preview field.



The Color scheme field lets you say change how different colored things in the terminal colors appear. The Widget style lets you overwrite the system widget style with something other than system default. The Scrollbar position lets you move the scrollbar to the Left, Right, or No scrollbar. The Tabs position moves the tabbar to the direction of the side of the QTerminal window you select. The Cursor shape changes the shape of the cursor between block cursor a large block, underline cursor a small underline, or IBeamCursor which is quite small like a | character.

To use a bold font for bright colors with syntax highlighting check the Use bold font face for intense colors checkbox. To disable using the alt key in keyboard combos to activate the window for QTerminal check the No menu bar accelerator checkbox. The Show a border around the current terminal shows a border around the terminal. The checkbox Show terminal size on resize toggles showing the terminal size on resizing the window. To have support for languages with both right to left and left to right text check the Enable bi-directional text support. To use box drawing character from the font you use check the Use box drawing characters contained in the font checkbox.



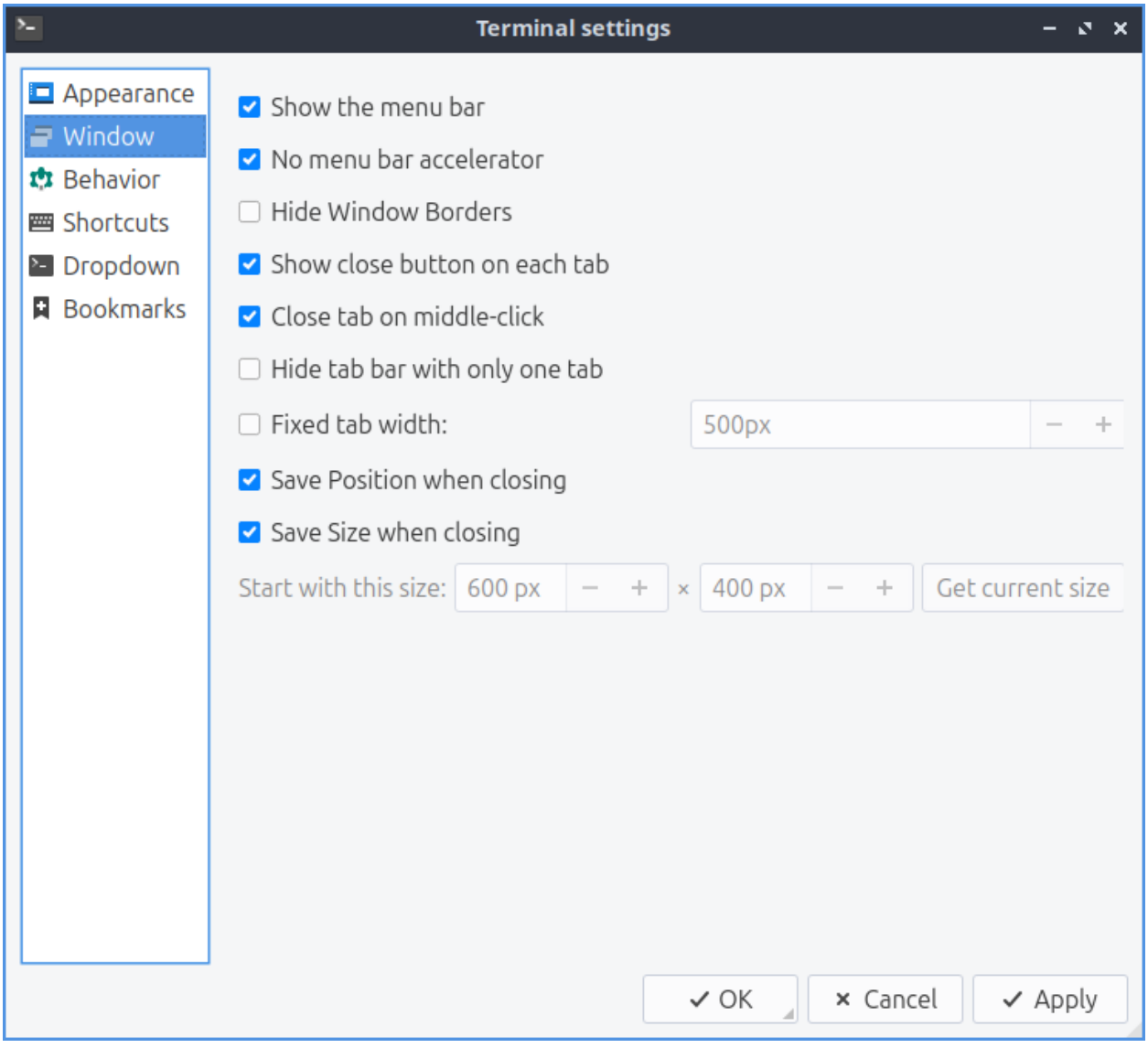
The field Terminal transparency gives you the percent transparent for the full application transparency. The field Terminal transparency is how transparent to make the terminal. To select a background image for your terminal press the Select button next to Background image. To change what QTerminal will do with the background image if the window doesn't exactly fit use the Background mode menu. The field Start with preset lets you choose how many terminal splits to have when you start up QTerminal. To have a margin on the left side of the terminal set the Terminal margin will make a margin at the bottom of the terminal to not have the bottom text cut off.

To have a border for a the current terminal check the Draw a border checkbox. To have the current terminal focused by mouseover check the Set current terminal on mouseover checkbox. To change the window title from the terminal check the Change window title based on the terminal checkbox. To switch the window icon based on the terminal check the Change window icon based on the terminal checkbox. To disable having the x button to close each

tab uncheck the Close button on each tab checkbox.

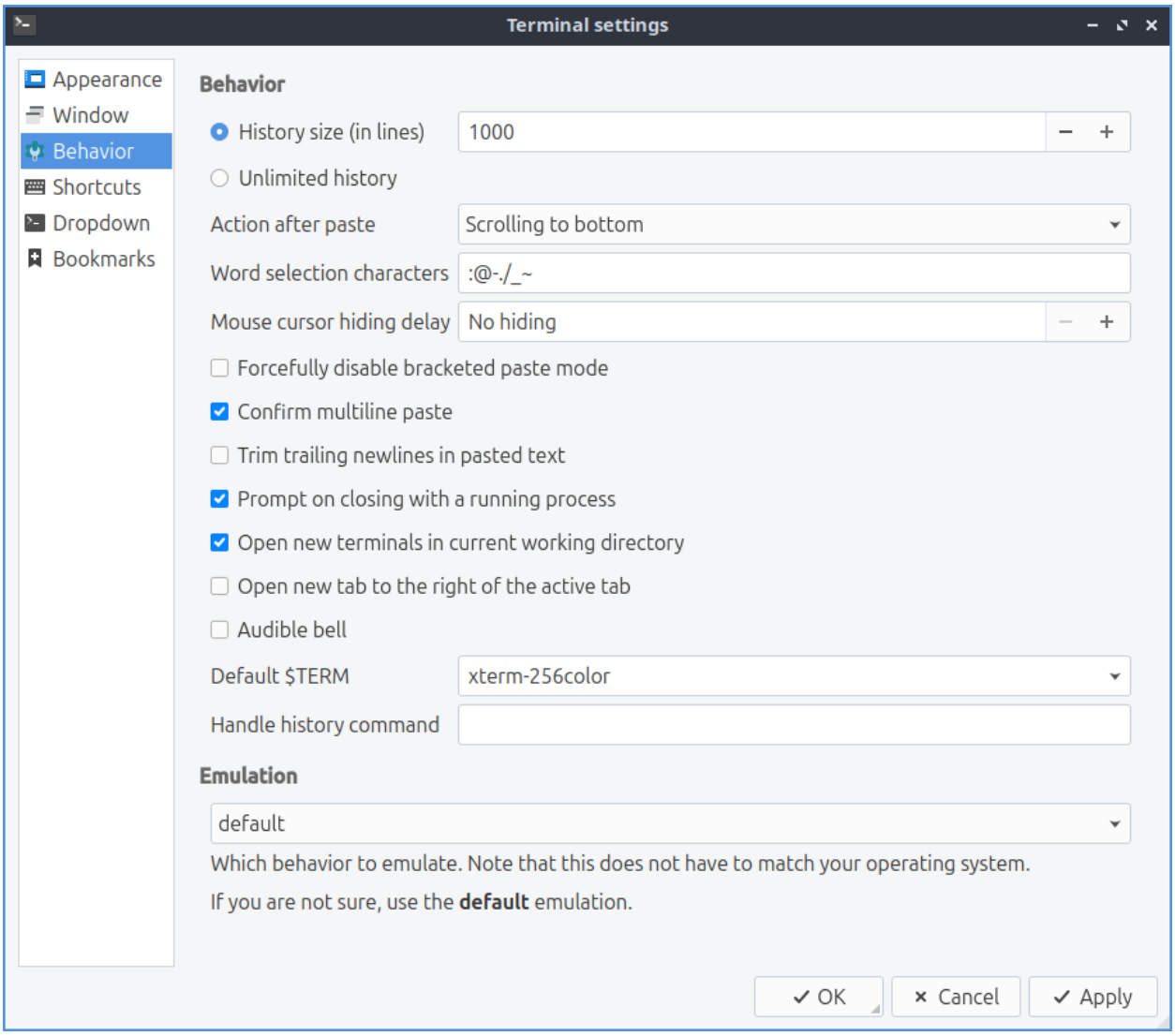
To apply these changes to see how they appear on QTerminal press the Apply button. If you like your new customized terminal layout press the OK button or if you wish to cancel your changes press the Cancel button.

To have setting for the window for QTerminal use the Window tab. To disable using keyboard menu navigation so all key combos get passed through to the terminal check the To toggle showing the menubar check/uncheck the Show the menu bar checkbox. To hide window borders check the checkbox Hide Window Borders. To not close tabs by middle clicking uncheck the Close tab on middle-click checkbox. The checkbox Hide tab bar with only one tab hides the tab bar when you only have one tab. The checkbox and field Fixed tab width limits how wide a tab can be in pixels. The checkbox Save position when closing saves the position when closing QTerminal. To have QTerminal be the same size window check the Save Size when closing. The Open new terminals in current working directory checkbox open new terminals in the last working directory you were on.



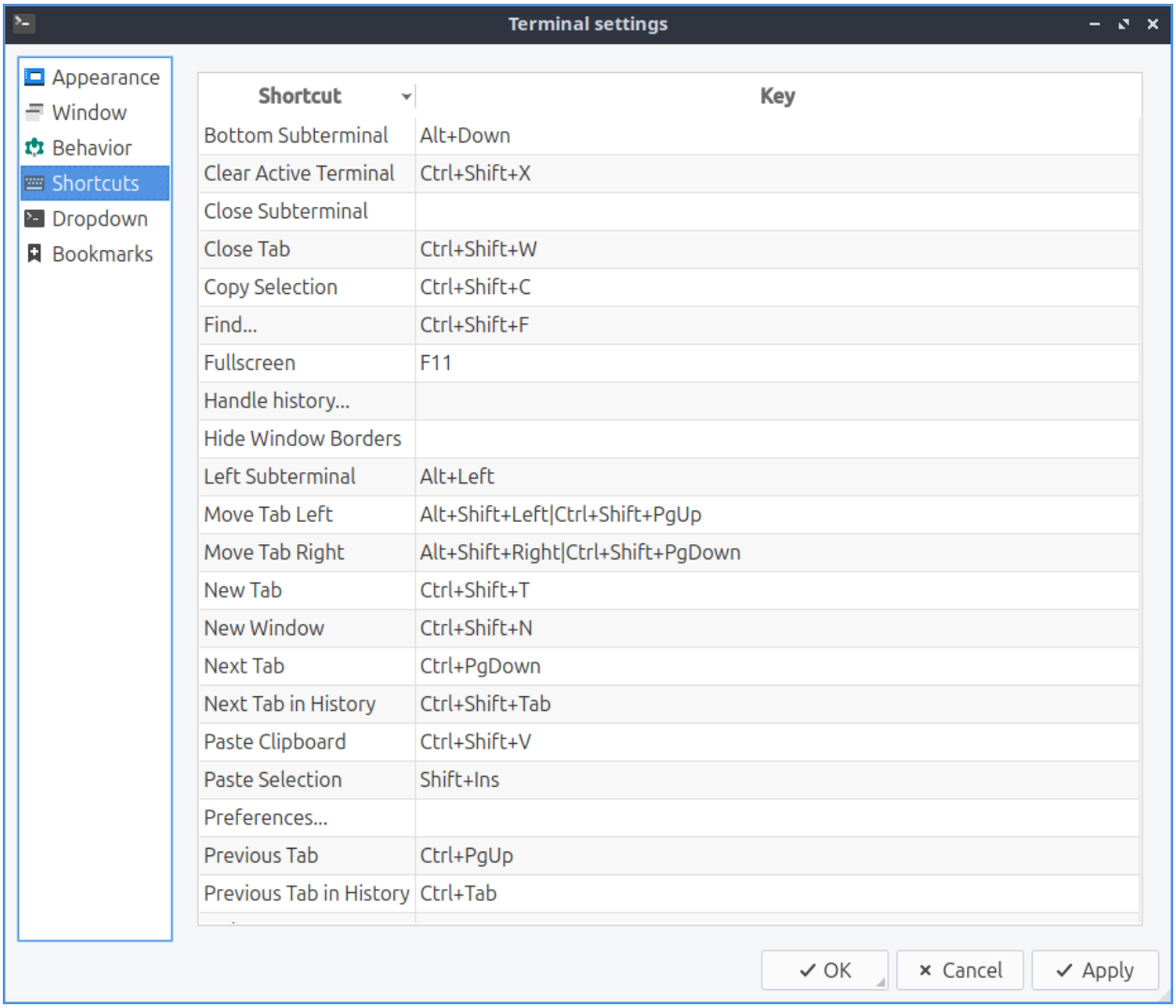
The Behavior tab changes history, pasting, and different kinds of emulation. To stop bracketed paste mode on pasting multiple lines check the Forcefully disable bracketed paste mode

checkbox. The History size (in lines) lets you save only that many lines of scrollback. The button for Unlimited history will save an unlimited amount of scrollback. To change where you are viewing the terminal when you paste change the Action after paste menu. To add characters to be included as part of a word when searching for entire words enter in the Word Selection characters field. To change the amount of time after switching to the window use the the Mouse cursor hiding delay field. To turn off bracketed paste mode check the Forcefully disable bracketed paste mode checkbox. The checkbox for Confirm multiline paste brings up a confirmation for pasting multiple lines. The checkbox Trim trailing newlines in pasted text checkbox removes excess newlines in pasting text from the end of what you paste. The Ask for confirmation when closing pops up a confirmation dialog when you close QTerminal. To Open new tabs to the right of the current tab check the Open new tab to the right of the active tab checkbox. To set a command to open your scrollback in another program enter it in Handle history command.

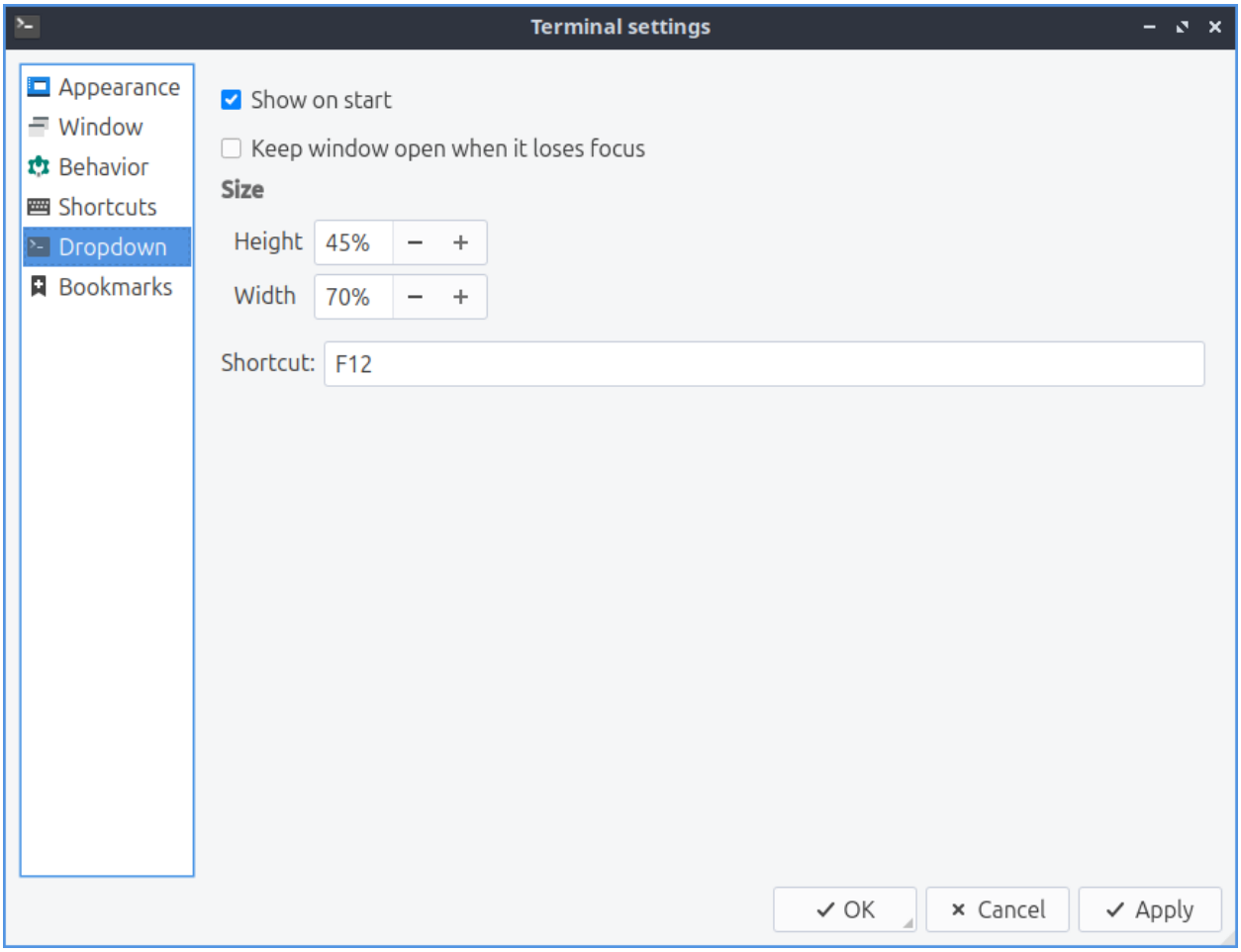


The Shortcuts tab shows all the different shortcuts and how to change keyboard shortcuts. The Shortcut column shows what the keyboard shortcut does. The Key column is the keyboard shortcut to launch the shortcut. To change or add a keyboard shortcut double click under the Key column and then press the keyboard shortcut you want. To change how you sort your keyboard shortcuts left click on the column to sort in a different order. To change your

keyboard shortcut double click for that shortcut and then press the keyboard shortcut you want.



The Dropdown tab shows effects on the appearance for the drop down settings of QTerminal. The Show on start checkbox if checked shows the drop down menu when it is launched otherwise it is hidden. To have the dropdown terminal open if you go to a different window check the Keep window open when it loses focus checkbox. The Height field shows the height of the drop down terminal. The Width field shows how wide to make the dropdown terminal. The field Shortcut is the shortcut to bring down the drop down terminal and to change the shortcut type in a different key. The Lock Shortcut key has the key to lock the drop down terminal open.



The Bookmarks tab has settings for a sidebar to quickly change directories in the terminal. To enable this sidebar check the Enable bookmarks checkbox.

Version

Lubuntu ships with version 2.4.0 of QTerminal.

How to Launch

To launch QTerminal in a normal window go to the menu System Tools ▸ QTerminal or run

```
qterminal
```

from the command line. To launch a drop down version of QTerminal from the menu System Tools ▸ QTerminal drop down or run

```
qterminal -d
```

from the command line. You can also launch QTerminal by pressing the keyboard shortcut `Control+Alt+T`. The icon for QTerminal looks like a black background with a white command line prompt on it.

Chapter 3.1.3 Startup Disk Creator

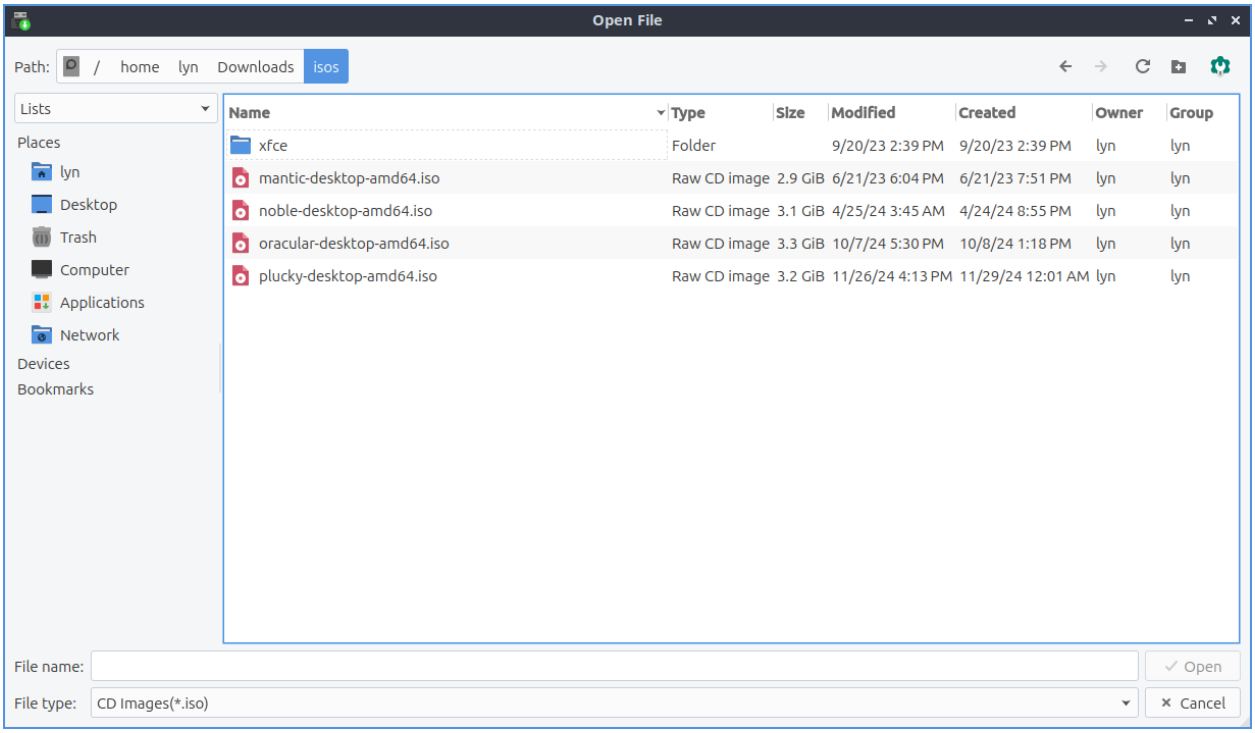
Startup Disk Creator is the default graphical utility for creating bootable USB media on Lubuntu.

Usage

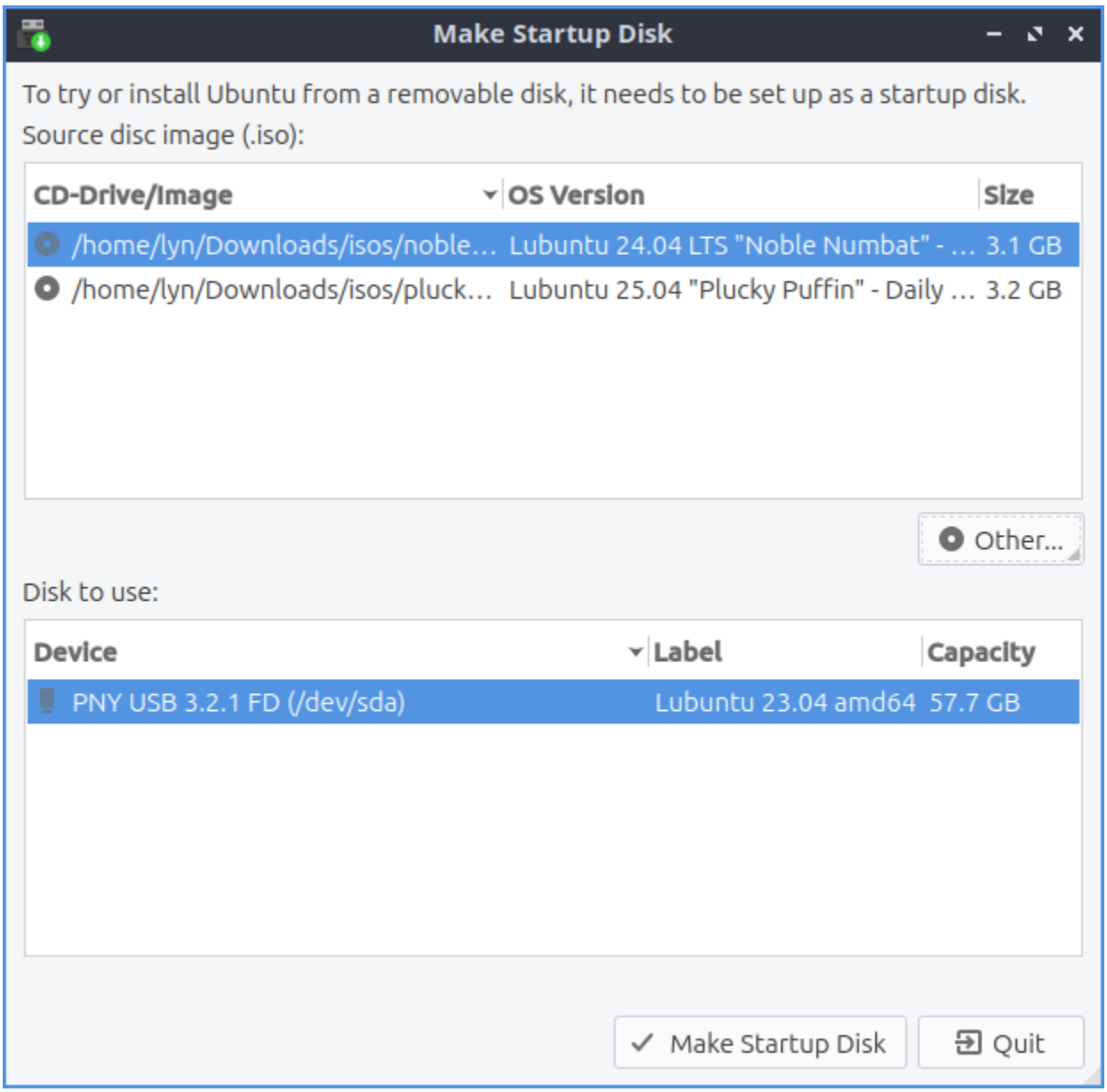
To see what USB devices you can make into startup disks are listed under the Disk to use heading on the screen. To see what the device is named look under the Device column. To change what the device is labeled is under the Label column. To see the max size of the USB drive is under the Capacity column.

Warning

The process of creating a startup disk to boot off deletes all data on the disk but only shows USB devices if you hard USB hard drives or flash drives with data you want to keep it is recommended to unplug these devices so there is no way of accidentally deleting data you care about.



If you want to find an iso image if it is not shown press the Other button and a file dialog to open the location will show up. To open the iso left click on the iso and press the Open button.



To see what startup isos have been added are in columns for the top of the startup disk. To see the image or drive path to the file look at the CD-Drive/Image column. To see what version of an operating system view the OS Version column. To see how big your image size actually is view the Size column.

To actually create the disk press the Make Startup Disk button. A dialog will appear asking if you want to write the disk image and all data will be lost to make the disk press the Yes button. Another dialog box will show up asking for your to enter your password to make sure it is you making this disk and then the image will be written with a progress bar. Once done you will get a dialog saying The installation is complete and an OK button.

To quit Startup Disk Creator press the `Escape` key or press the Quit button.

Version

Lubuntu ships version 0.4.1 of Startup Disk Creator.

How to Launch

To launch Startup Disc Creator System Tools ▸ Startup Disk Creator or run

```
usb-creator-kde
```

from the command line. The icon for Startup Disk Creator is a green circle with a white downward pointed arrow.

Chapter 3.1.4 nm-tray

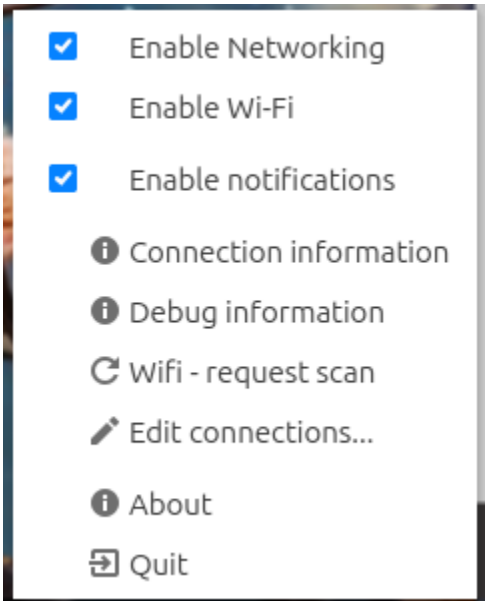
nm-tray is the default applet to manage network connections on Lubuntu.

Usage

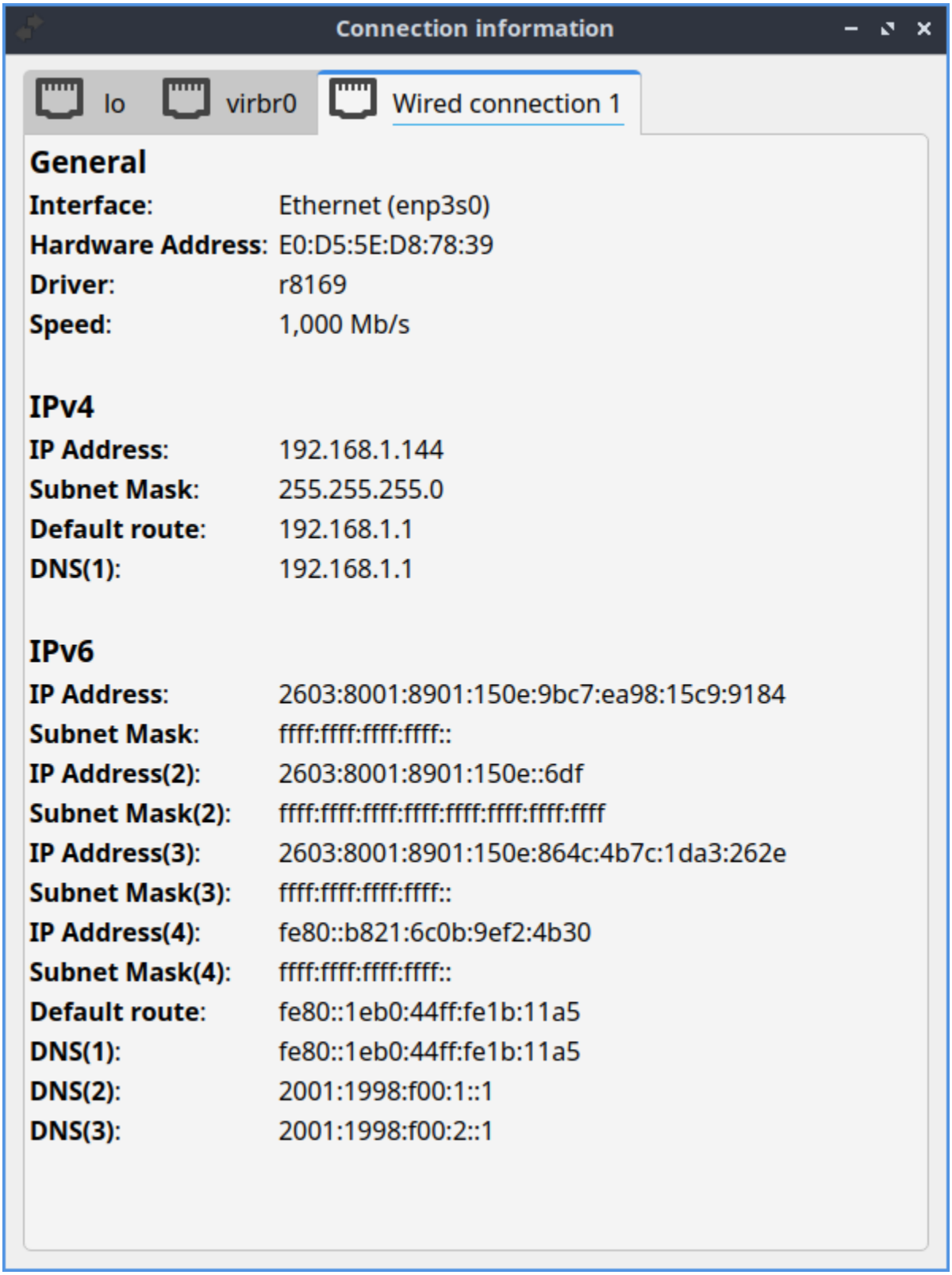
If you want to connect to a network on nm-tray left click the icon in the system tray. If you have a wired connection with DHCP it should connect automatically. If you want to disconnect your from a network under active connections left click to disconnect. To connect to wifi left click on the nm-tray applet and connect the wifi name applet and then enter the password for the wifi. To rejoin a network you disconnected from left click on that network under Known Connection(s).

After connecting to a network it will be listed under connections which you can see by left clicking on nm-tray icons. To see the list of all known connections left click on the tray applet and look under Known Connection(s). To view the list of active connections left click on the tray icon and look under Active connection(s). To view the list of wifi networks is listed under Wi-Fi networks you are connected to.

To turn off all networking uncheck Enable Networking. To toggle notifications on connecting and disconnecting to networks right click on the nm-tray tray icon and check or uncheck the checkbox for Enable notifications. To disable wifi uncheck Enable Wi-Fi. To scan for wifi networks right click on the network icon and select Wifi - select scan. To bring up more options to edit your connection right click the nm-tray icon and select Edit connections.



To view your own networking information right click the applet Connection Information which will pop up a window with information such as your IP address. On this window each interface will show the names of each network interface in a tab bar along the top. The field Interface Shows you the name of your network adapter to the system what type of connection it is. The Hardware Address shows your MAC address. The label for Driver shows you what driver is in use for this network interface. The field Speed shows the speed supported by the connection.



The section IPV4 shows you information on your settings for networking using IPV4. The section IP Address shows you your current IP address. The DNS fields show where your DNS looks up the domain names of websites and finds them.

The section IPV6 shows information on your settings for networking using IPV6. The section IP Address shows you current IPV6 address. To see the the root to your DNS servers for IPV6 see the DNS(1) field. To see your backup IPV6 DNS server see the DNS(2) field.

To check for wifi networks again right click on the tray icon and select Wifi - request scan.

Screenshot



Version

Lubuntu ships with version 0.5.1 of nm-tray.

How to Launch

nm-tray should automatically launch in the system tray to and looks like either a plug with a cable plugged in if you have an Ethernet connection. If you do not have nm-tray running and want to start it just once from the command line run

```
nm-tray
```

Chapter 3.1.5 qps

qps is the graphical task manager included with Lubuntu. It is useful to close non-responsive programs.

Usage

To see your memory usage in qps look at the bar that says MEM. The brighter green is memory used while the dimmer part is memory used for cache. To view numbers on used mouseover the MEM bar. The bar for CPU usage shows CPU usage with a bar graph with usage with a bar graph for CPU usage. The numbers show which the cpu usage on each CPU core. The third column SWAP shows how much swap is used or if you don't have a swap space view it will say NOSWAP. The Uptime in the top bar shows how long your computer has been running. A blue bar showing file input output shows graph in blue. Above this there is a green graph that shows your CPU usage as a graph. To see your load average view the load average in the top right corner. To show when a program was started with the START column.

On the top bar of qps you can get a lot more detailed information if mouseover a field. To get a detailed view on system vs user CPU usage mouseover the CPU field. To see detailed info on how much of your ram is used to cache and buffers and by programs mouseover the MEM field. To view numerically how much swap is used mouseover the Swap field. To view info on how long each measurement is taken for a load average mouseover the load average in the top right hand corner. To see what processes are taking up CPU usage mouseover the green line graph. To see what processes are reading or writing at a time mouseover the blue graph.

To search for a particular process type in the Filter field.

To have a view of process ID of each process use the PID column. The column COMMAND LINE shows what command line starts the process. To show which user the process is running on is in the USER column. To sort your processes by memory click on the MEM tab. To have your processes sorted by CPU percentage press the button CPU%. To have your processes sorted by CPU%. To sort by the command line of each process you can press the command line. To sort by how much memory is used by each process read the Mem tab. To only view your processes on the toolbar drop down to the right of Filter and select Your Processes. To view only processes not run by the root user form the drop menu on lower toolbar select Non-Root Processes. To view only running processes select on the drop down menu on the lower toolbar select Running Processes. To go back to viewing all processes select from the drop down menu on the toolbar select All Processes.

To change your process view to each process gets its own line or linear select the Linear radio button in the upper left hand corner. To organize each related process with a tree for parent and child processes press the Tree radio button. To search for a particular process enter a search term in the bar towards the center top of the user interface. To group processes based on what thread they are in check the Thread checkbox.

At the bottom of the window Process count shows how many processes are running on your system.

When you have qps open a tray icon will appear that shows a graph of CPU usage. If you right click Hide to make qps not show in the taskbar. To bring qps back to the front off all windows right click on the tray icon Show. To quit qps press `Alt +Q` or right click the tray icon and select Quit.

To search for a particular process you can type your type into the search bar right above a particular process right above it. To terminate a process right click on it and select Terminate or press `delete`. To kill a process move the mouse over it right click and select Kill or press `Alt + K`.

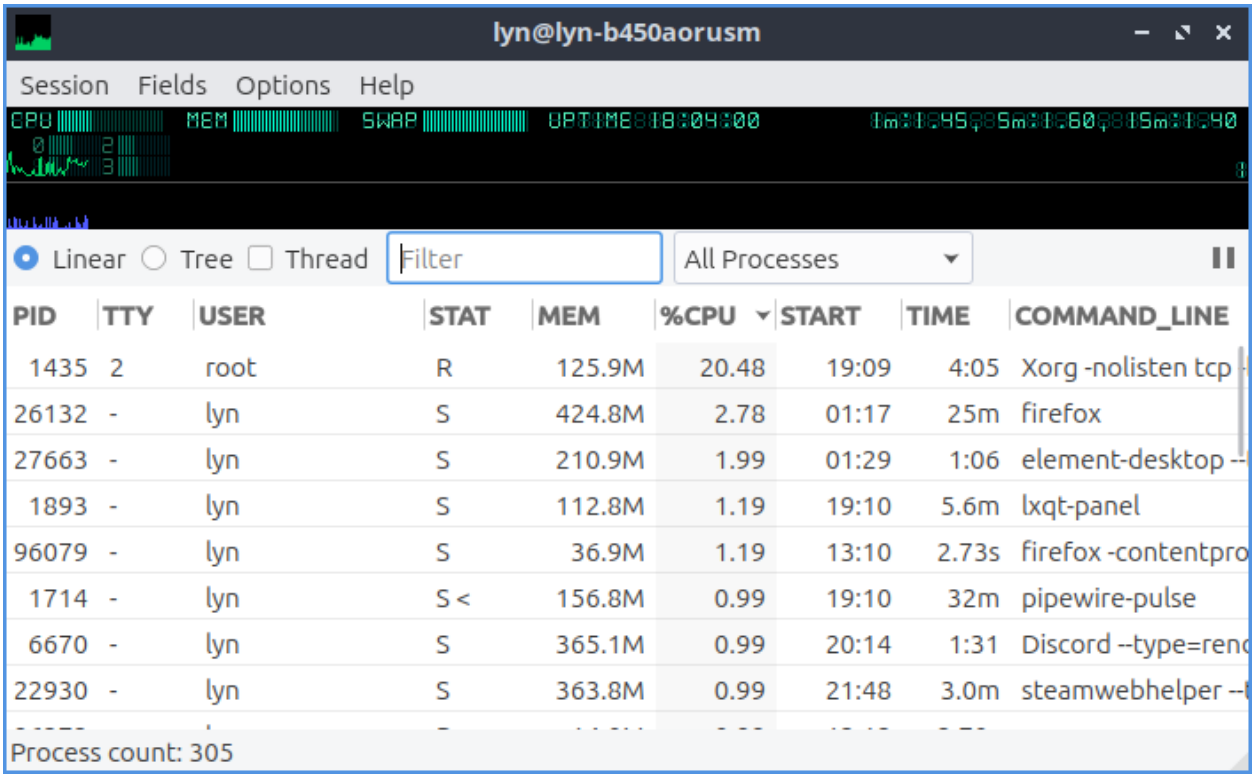
To view more details on this process right click on the process and select View details. To view what files the process has open use the Files tab. To view what environment variables the process select the Environment tab.

To toggle showing a graph with your overall system usage check/uncheck the Options ▸ Show Graph checkbox in the menu. To toggle showing the bar with the option to search for pro-

cessor or choose linear or tree view of processes check/uncheck Options ▸ Show Control Bar checkbox in the menu. To change the update period is to Options ▸ Update Period. Then input your update period in the New Update Period field.

To quit qps press `Alt+Q`.

Screenshot



Version

Lubuntu ships with version 2.13.0 of qps.

How to Launch

To launch qps go to the menu System Tools ▸ qps or run

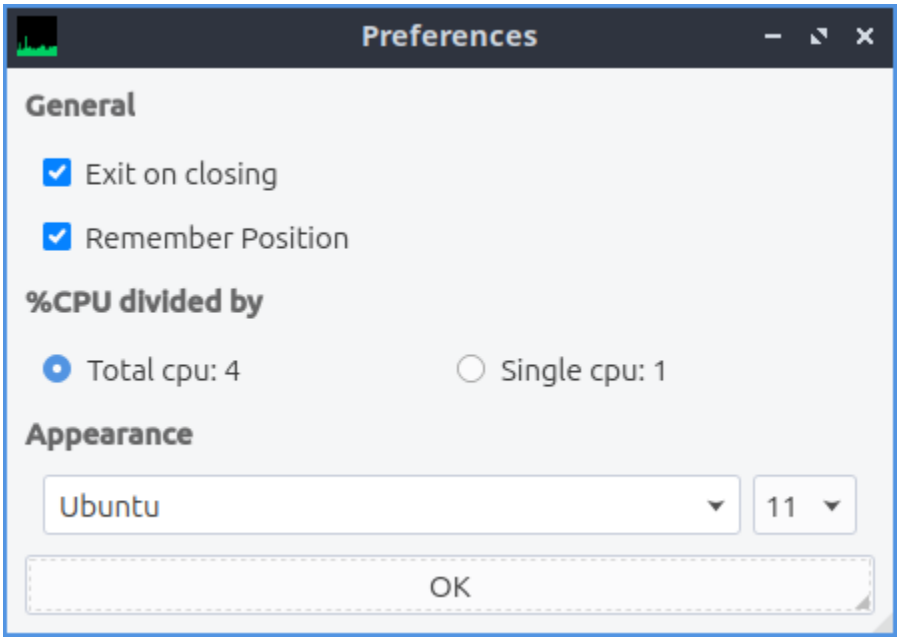
```
qps
```

from the command line. The icon for qps looks like a green line graph with a black background.

Customizing

To change more preferences Options ▸ Preferences and a preferences window will pop up. To have qps not exit when you close qps uncheck the Exit on closing checkbox. To change if qps has a remembers it position check/uncheck the Remember Position checkbox. To change how CPU usage is divided per your total number of CPU cores or a Single CPU press a radio button

under %CPU divided by. To change the font use the drop down menu under Appearance and the drop down number is for the font size. To close the preferences press the OK button.



Chapter 3.1.6 KDE Partition Manager

KDE partition manager creates partitions partitions, deletes partitions, and checks the health of your hard drives and solid state drives.

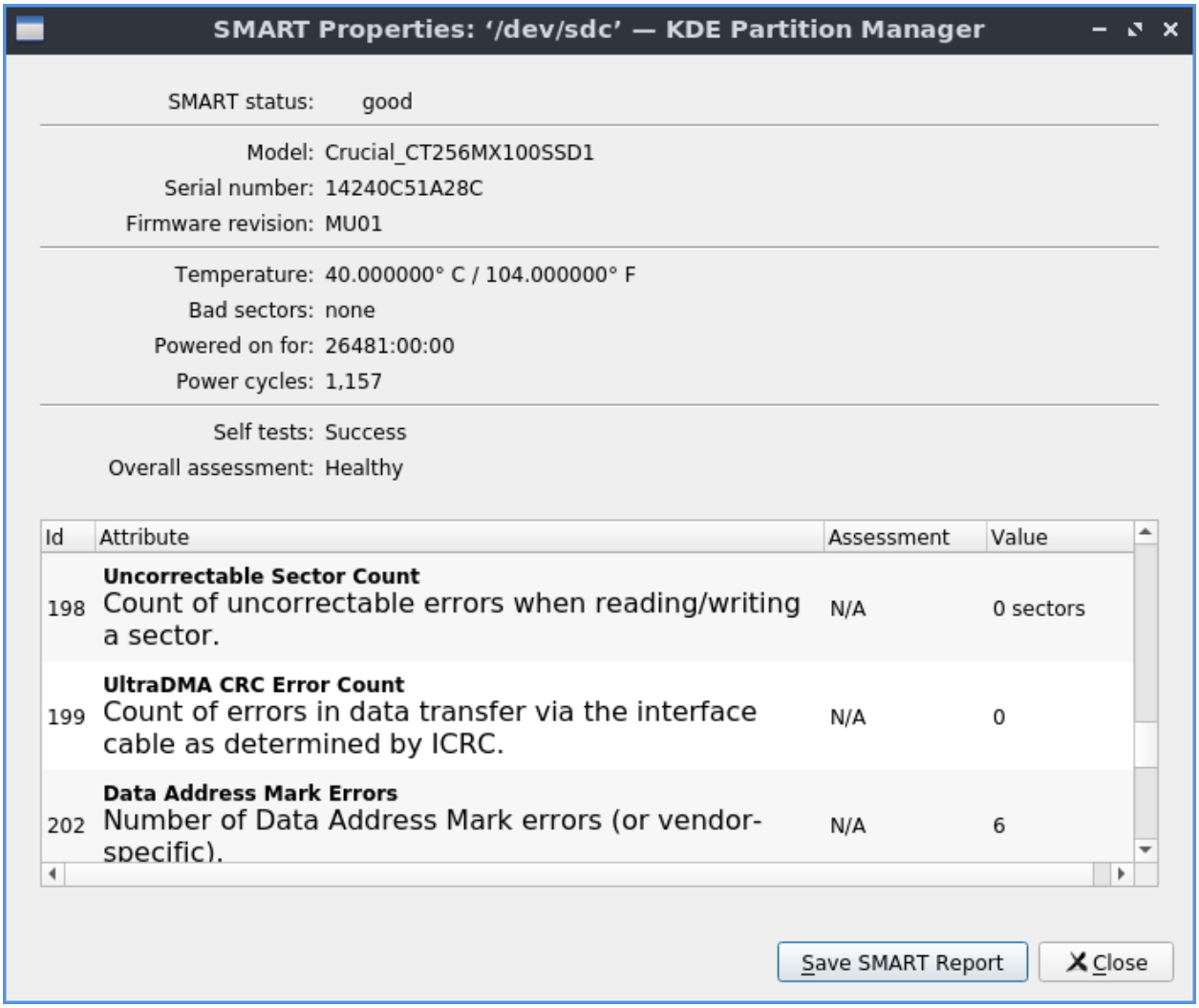
Warning

Deleting and creating new partitions can result in data loss so please back up your data before removing or creating partitions.

Usage

To check the health of your hard drive or solid state drive on the Device ▸ SMART Status or by right clicking on the device in the side pane Smart Status. The field SMART status shows the overall health of your drive or if it has detected any problems. The field Model shows the model number of your particular drive. The field Temperature shows the temperature of your drive but it is bad for it to be too hot. The field Bad sectors show how many sectors on your drive are no longer functioning. The field Powered on for shows how long your drive has been powered on. To see how many times your machine has rebooted with the drive look at the Power cycles field. The Self tests field is for if the drive has completed its self tests. The field Overall assessment shows your overall status of the drive.

Below is having a list of the raw values of smart on the drive some of which can be vendor specific or depend on each drive. One important one on spinning discs is to realize if the Reallocated Sectors Count which if nonzero likely means imminent drive failure.



You can see your disk usage for each partition graphically with the bars at the top with the shaded in part showing a bar graph as the percentage full of the partition and you can select each partition by left clicking on that section of the bar graph. The Type column lets you see which filesystem is on the partition. The Mount Point column shows where that partition is mounted. The Mount Point column shows where that partition is mounted. The Partition Label column shows the name of the partition. The Column Size shows the size of the entire system while the Used column shows the amount of space used on the drive. To see what flags a partition has use the Flags column. If you want to add or remove additional columns showing info about partitions right click on the labels of the columns.

On the side pane to the left you can switch between each different drive on the left with the name of each device. Another way to switch which device you are managing partitions on use Device ▸ Select Current Device.

To delete a partition left click on a partition to select it press `Delete`, Partition ▸ Delete, or right click and select Delete. To add a new partition in unallocated space press `Control+N` or Partition ▸ New. To view statistical information on a partition select the partition Partition ▸ Properties or right click on that partition Properties. To resize or move a partition press `Control+R`, Partition ▸ Resize/Move, or right click on the partition and select Resize/Move. Once you change the size choose the Size field.

On the bottom of the window a list of Pending Operations to be applied to your drives. To

undo an unwanted pending operation right click on the operation and select Undo, left click on Undo on the toolbar, or press `Control+z`. If you want to delete a partition on a hard drive and overwrite the data on that partition Partition ▸ Shred or `Shift+Delete`. However shredding solid state drives is not recommended as it may not fully scrub the data and may marginally wear out your drive.

To change your partitions you will need to apply your changes later press the Apply button or Edit ▸ Apply. After pressing Apply a dialog will come up asking you to confirm and check this is what you want to do and then press Apply Pending Operations to apply these changes. To go back from this point press the Cancel button. To undo your your changes to your partitions press `Control+Z`, the Undo button, or Edit ▸ Undo. To clear your operations that have yet to been applied Edit ▸ Clear or right click on pending operations Clear and then use the dialog to confirm.

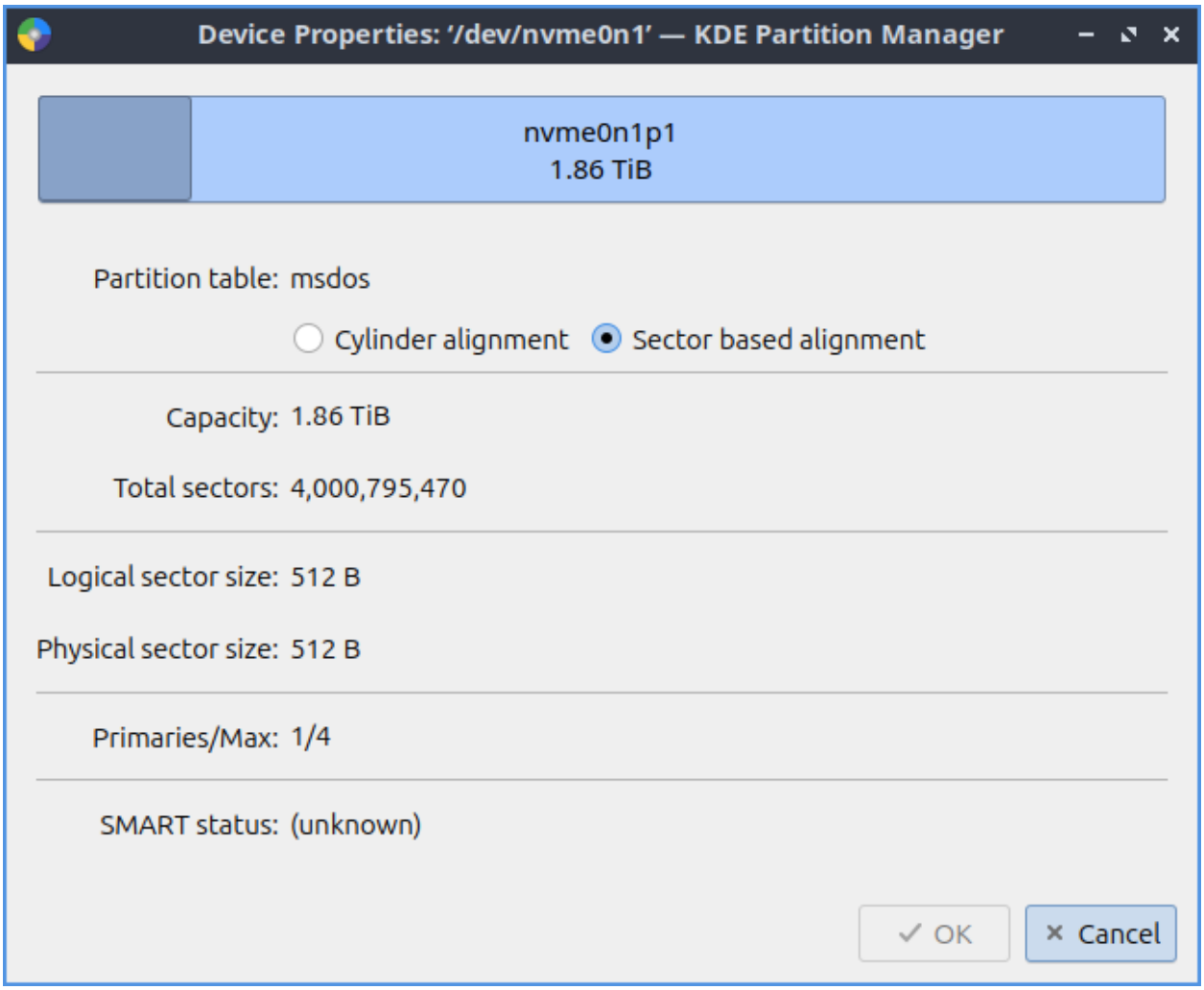
If you have say a new solid state drive that is not formatted you first need to put a partition table on it. A new partition data will get rid of all partitions on the disk which means no data will be visible anymore. Then you will need to create a partition on to store data. To actually create a new partition table press `Control + Shift + N`, left click on New Partition Table, or Device ▸ New Partition Table. On unallocated space you can right click on the unallocated space press the New button, Partition ▸ New, or press `control+N`. A window will popup saying with what type of settings to create the partition with. To change what filesystem you want to create will show in the File system: drop down menu. To change what size of partition you want to create change the Size: field. To create free space before the partition change the Free space before: field. To change free space after the partition change the Free space after field. To actually create the partition press the OK button while to cancel press the Cancel button.

Warning

Creating a new partition table on a disk with data on it will cause the loss of all data on the entire disk not just a partition.

To change a mount point of a drive internally for your machine to have it start mounted access to it always Partition ▸ Edit Mount Point or Edit Mount Point. This will popup a new window to choose the path where to mount this partition enter it in the Path field. Below there are many Options for how to mount things. To actually cause this to be mounted press the OK button. To cancel mounting this partition press the Cancel button. Once this happens you will get a dialog asking if you really want to do this as it changes the file in /etc/fstab. To really go through with changing this press the Save changes button. To not save these changes press the Cancel button. After you have done this you can right click on this drive and select Mount to mount it immediately. Once saved in /etc/fstab your drive will be saved and mounted at this point every time. However if you want to edit a mount point you will need to unmount the partition first and you can do this from right clicking and selecting Unmount.

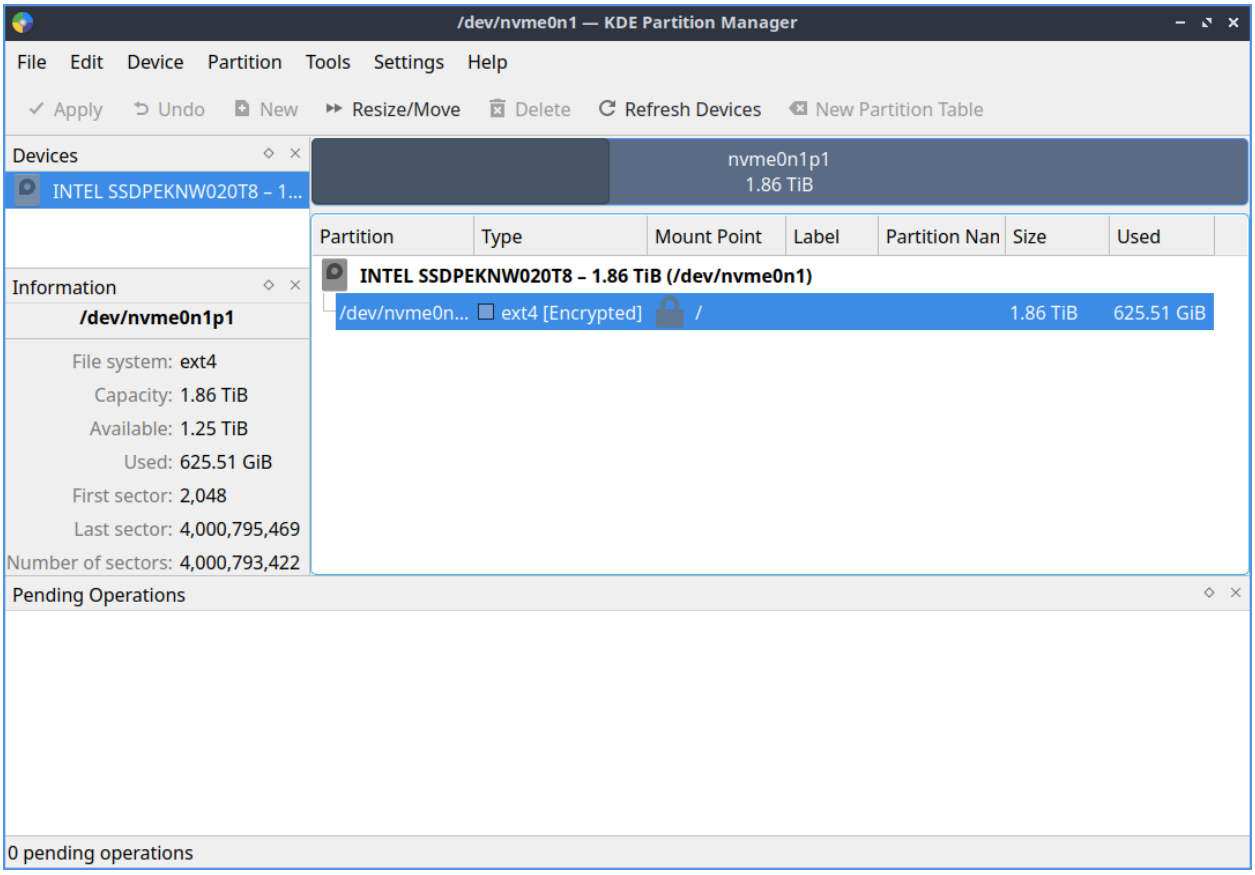
To view information of a partition on your drive double click on it or Device ▸ Properties. On the top a bar code on the top shows how full the partition is. To see what kind of file system it is in the File system field. To see a label on your filesystem look at the Label field. To see where that partition is mounted is in the Mount point field. To see information if a partition is currently mounted read the Status field. To see what partition type you use in the Partition type field. To see the size of the partition is in the Size field. To see the available size read the Available field. To see how much is used of your partition see the Used label. To see what flags a partition has read the Flags field.



If you have multiple drives on your system Device ▸ Select Current Device ▸ Desired Disk. To view information on the current drive such as what type of partition table or Logical size and smart status Device ▸ Properties. If you do not really see all your devices or current status press F5 or Tools ▸ Refresh Devices. To show which filesystems and what operations can be done with KDE Partition Manager Tools ▸ File System Support. The checkmark means the operation is supported and the red ! shows that the function is not supported. To see what program is used for this file system operation see the Support Tools column.

If you want to quit KDE Partition Manager press `Control+Q`.

Screenshot



Version

Lubuntu ships with version 26.04.3 of KDE Partition Manager.

How to launch

To launch KDE Partition Manager from the System Tools ▸ KDE Partition Manager or run

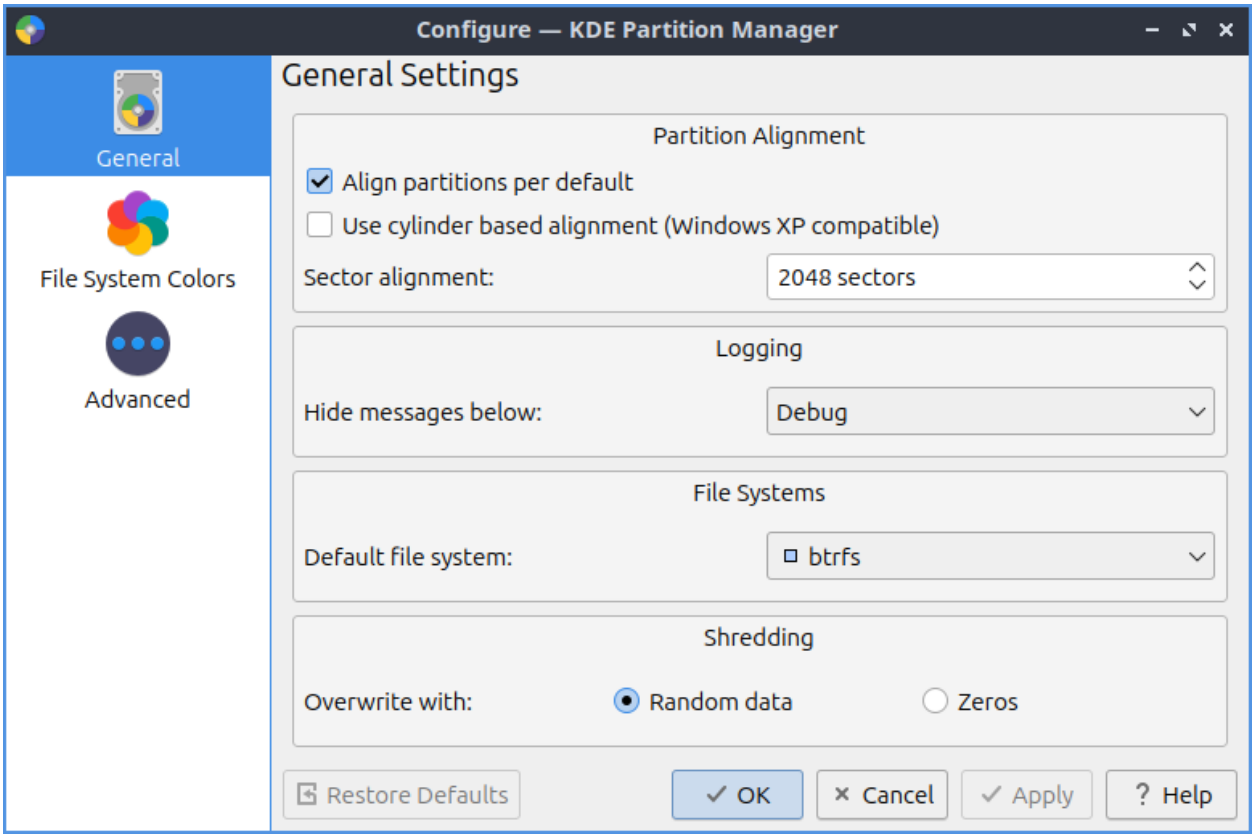
```
partitionmanager
```

from the command line. The icon for KDE Partition Manager is a series of blue and green rings that are partially complete with a white center.

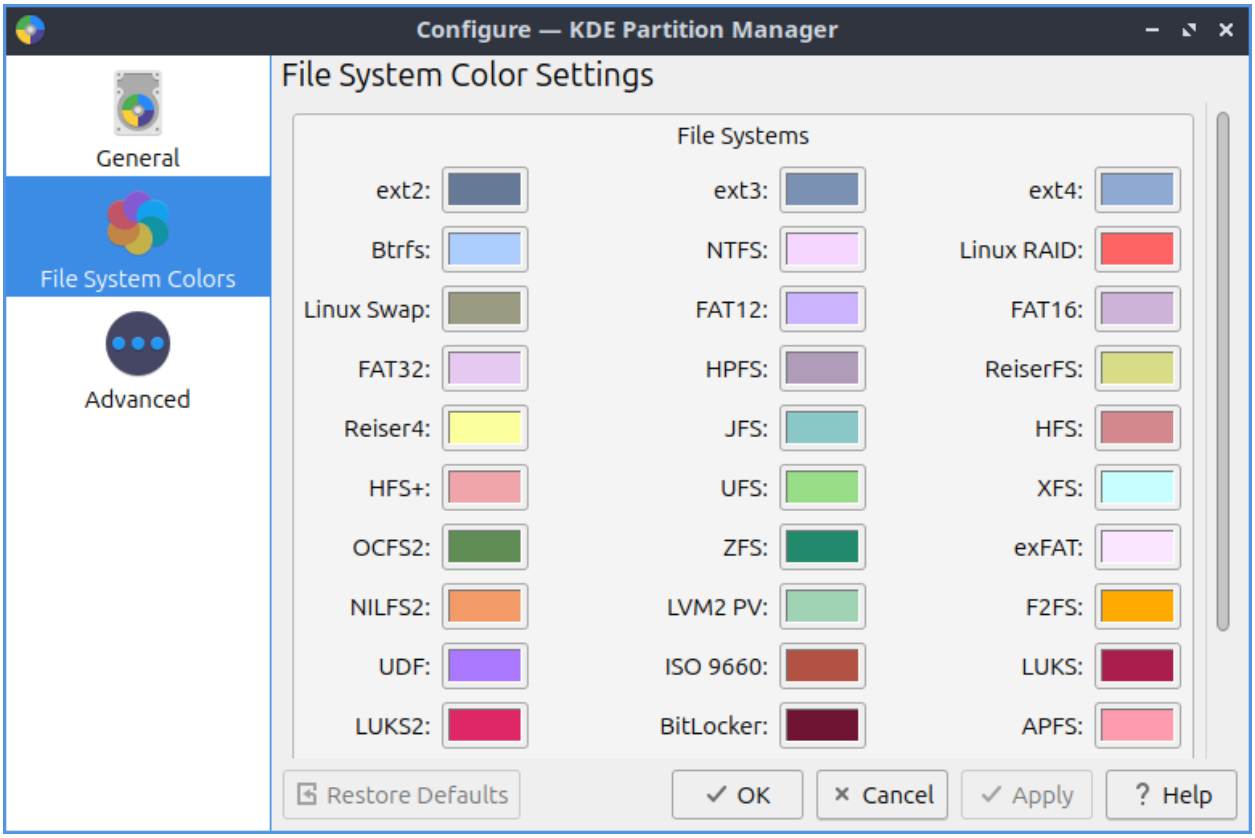
Customizing

To toggle showing a statusbar that shows pending operations check/uncheck the Settings ▸ Show Statusbar checkbox in the menu. To toggle showing your devices side pane check/uncheck the Settings ▸ Panels Shown ▸ Devices. To toggle showing information about the currently selected partition check/uncheck the Settings ▸ Panels Shown ▸ Information checkbox in the menu. To toggle showing pending operations check/uncheck the Settings –> Panel Shown –> Pending Operations checkbox. To toggle showing log output of check/uncheck the Settings ▸ Panels Show ▸ Log Output checkbox. To close a panel press the x button on that panel.

To customize settings for KDE Partition Manager press `Control+Shift+,` or Settings ▸ Configure KDE Partition Manager. The General tab has settings for aligning partitions and defaults for partitions. To toggle aligning partitions with sectors on a disk check/uncheck the Align partitions by default checkbox. To change where your sectors on your disc align to use the Sector alignment field. To change which messages to log you can change with Hide messages below to hide lower level messages to be logged. To choose your default file system use the Default file system drop down menu. To change whether to overwrite shredded data with zeros or random data use the buttons to the right of Overwrite with group of buttons.



To change the different colors of filesystem as they appear use the File System Colors tab. To change the colors of each filesystem in the top bar and other things left click on the button next to the filesystem name.



The Advanced tab allows even more settings on KDE Partition Manager. To change what preferred unit to display space as by default change the Preferred unit drop down menu.

Chapter 3.1.7 LXQt sudo

LXQt-sudo is the default way to launch graphical applications with administrative privileges on Lubuntu.

Usage

LXQt-sudo is used to open graphical programs as an administrator.

Warning

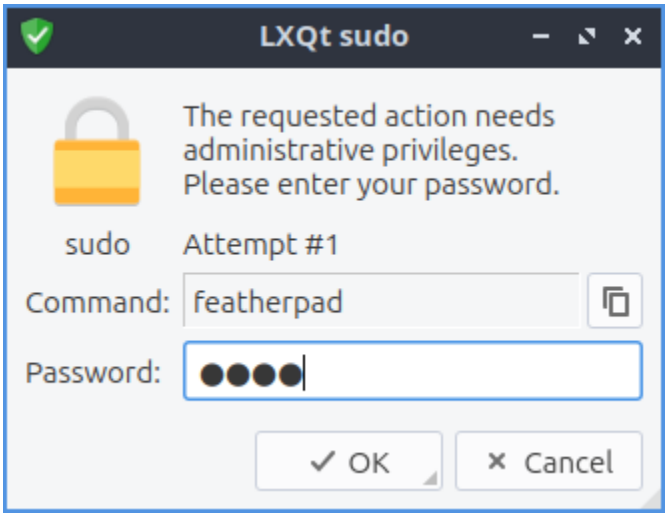
Modifying the wrong system configuration files with administrator privileges could make your system unable to boot or for you to be unable to login.

To use lxqt-sudo is important to not change your config files as if you did with sudo. You will need administrative privileges to edit config files but make sure you know what you are doing. To actually use LXQt sudo you will need to type your password into the Password field and then press the OK button. To see which attempt to authenticate you are on will be shown with Attempt #. To not run your command as root if you decide against it press the Cancel button. To copy the command you are running as root press the button with two sheets of paper.

Version

Lubuntu ships with 2.4.0 of LXQt-sudo.

Screenshot



How to Launch

To launch LXQt-sudo from the command line to run Featherpad with administrative privileges use

```
lxqt-sudo featherpad
```

You can also run LXQt-sudo from the runner for example type in

```
lxqt-sudo pcmanfm-qt
```

into the runner to launch PCManFM-Qt with administrative privileges without opening a terminal.

2.3.2 Chapter 3.2 LXQt Settings

This chapter sets up the many preferences of the LXQt desktop environment included with Lubuntu for themeing and customization. Be aware that this will make your system look different than the screenshots in this manual.

Chapter 3.2.1 LXQt Configuration Center

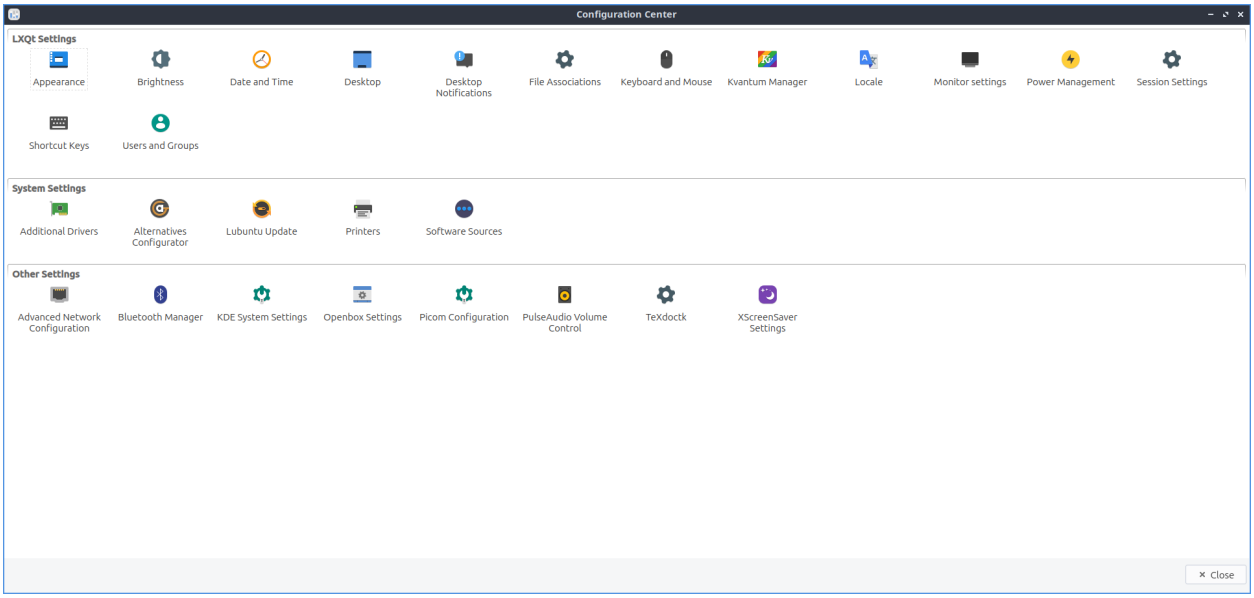
LXQt Configuration Center is the default “control center” application with buttons that launches programs to configure LXQt the default desktop environment of Lubuntu.

Usage

LXQt configuration center lets you launch many different applications in this chapter from a simple control center where you can double click on the icon for that program. To close one of the programs here you have launched you can close it by pressing `Escape` or press the

Close button. Another way to select programs is move the currently selected item with the arrow keys on your keyboard and you can launch a program by pressing `Enter`.

Screenshot



Version

Lubuntu ships with version 2.4.0 of LXQt Configuration Center.

How to Launch

To launch LXQt Configuration Center from the menu LXQt settings ▸ LXQt Configuration Center or run

```
lxqt-config
```

from the command line. The icon for LXQt Configuration Center is a lightbulb with a gear in the background.

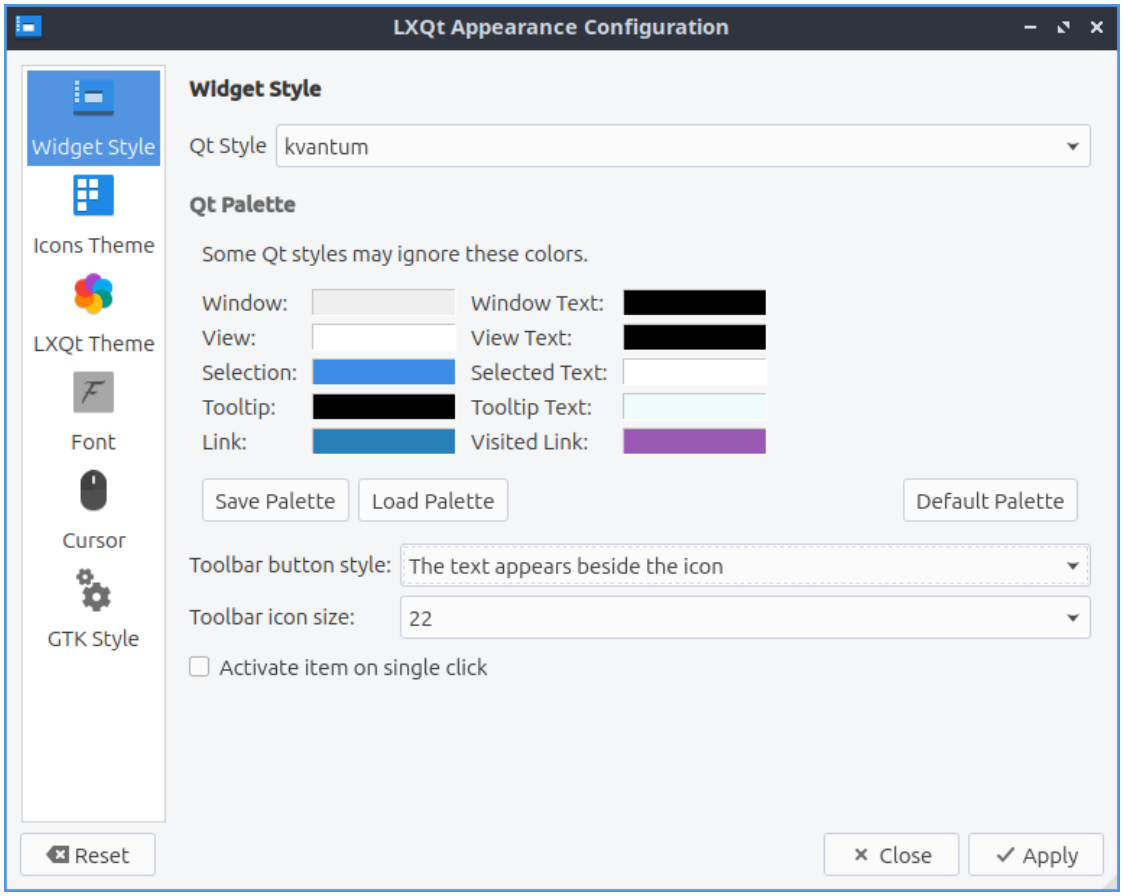
Chapter 3.2.2 Appearance

Appearance is the default program that changes the theming of LXQt for a different visual look.

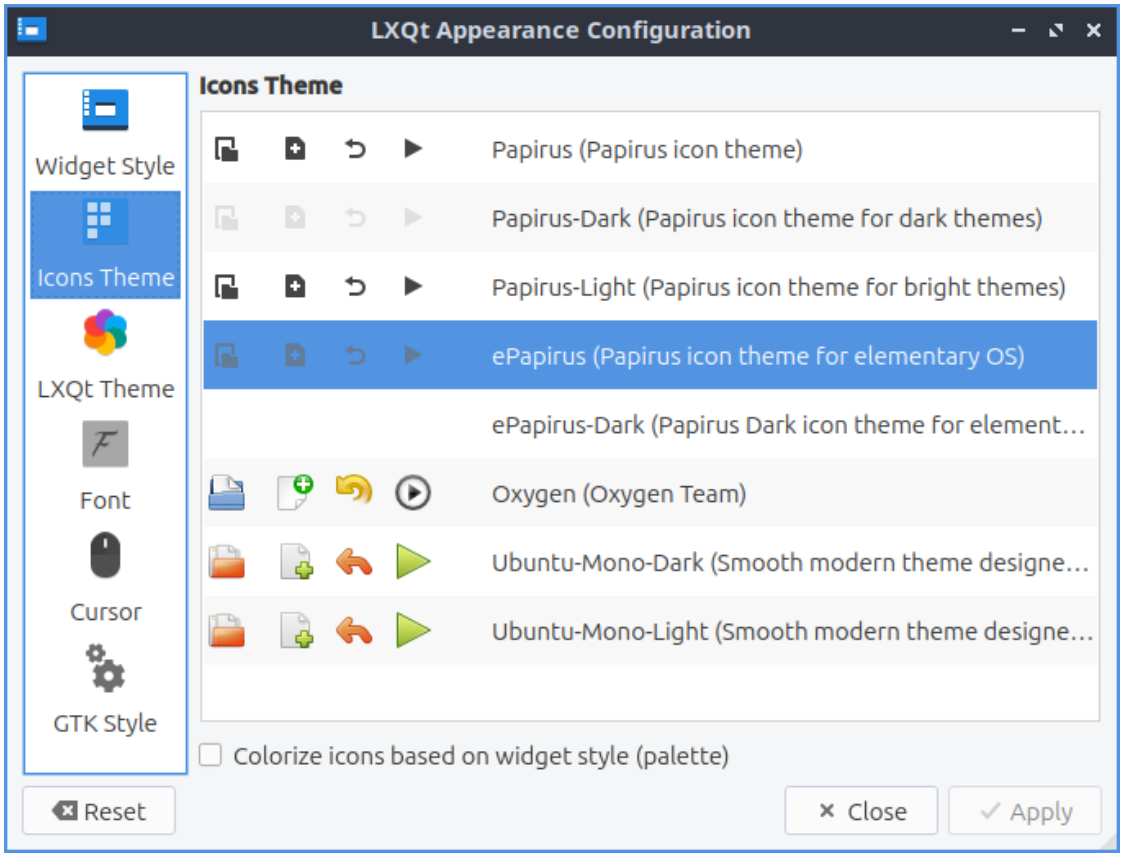
Usage

The tab Widget Style changes the way windows, buttons, and menus are drawn. To change how buttons and toolbars look on Lubuntu in Qt applications use the Qt Style menu. To install more Qt styles install packages with kde-style in the name. The section Qt Palate changes colors on Qt applications. To change the background color of windows use the Window button and then choose your color. To change foreground elements colors use the View menu. To change the color of selected buttons and text change the Selection button. To change the color of toolitips use the Tooltip field. To change the color of hyperlinks on windows change

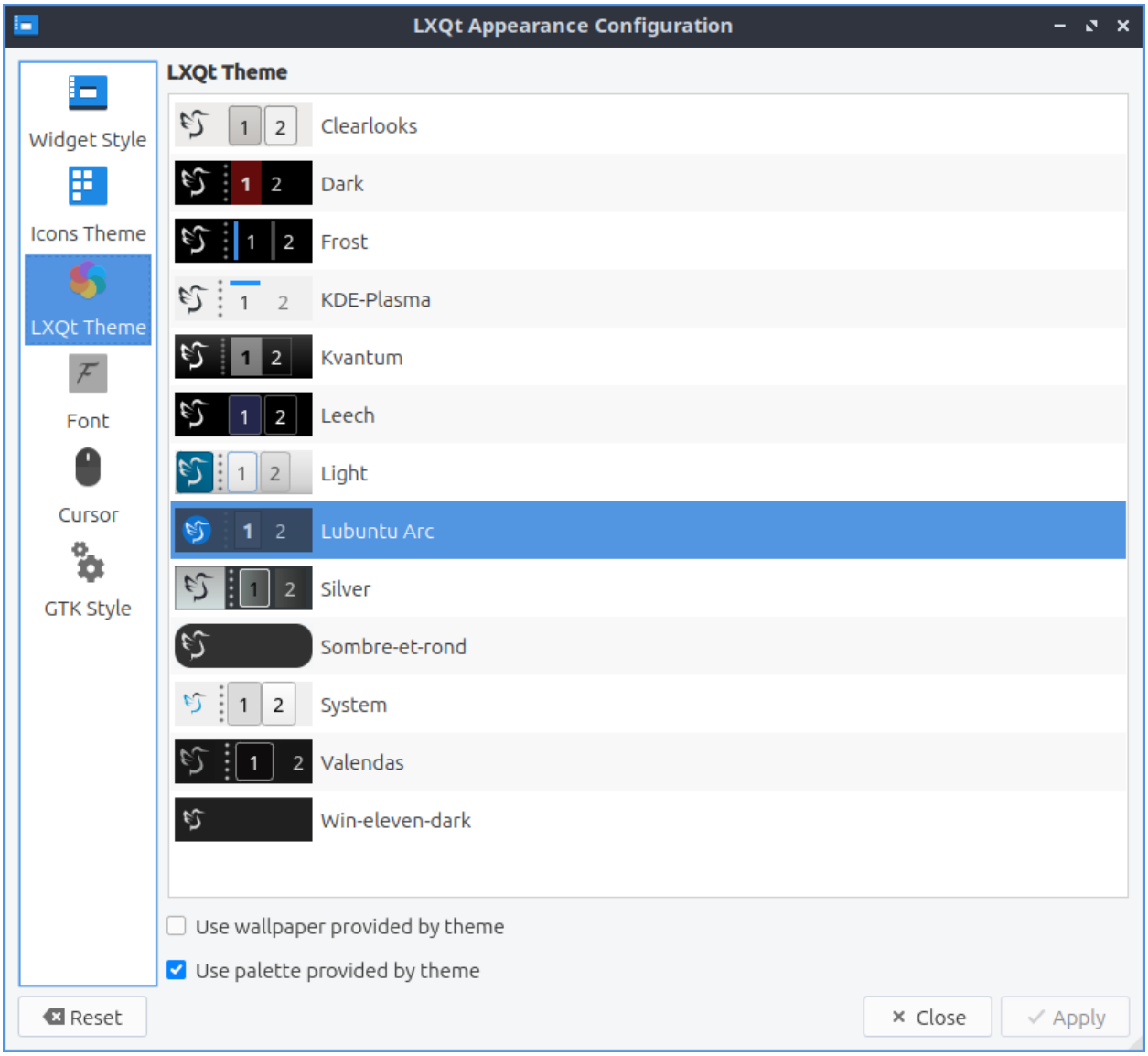
the Link button. To change how the text of windows appears change the Window Text field. To change the color of text on buttons change the View Text button. To change the color of text you have selected press the Selected Text button. To change the color of text on tooltips change the Tooltip Text field. To change the color of links you have visited press the Visited Link button. To change your colors back to default press the Default Palette button and then press Apply. To save your current custom pallette press the Save Palette button enter a name and press OK. To load another palette press the Load Palette button and then left click on the palette you want and press OK. To change how to display buttons and text on toolbars change the Toolbar button style`field. To change the size of icons on toolbars change the :guilabel:`Toolbar icon size field. The checkbox Activate on single click checkbox has makes things you normally need two clicks for one click.



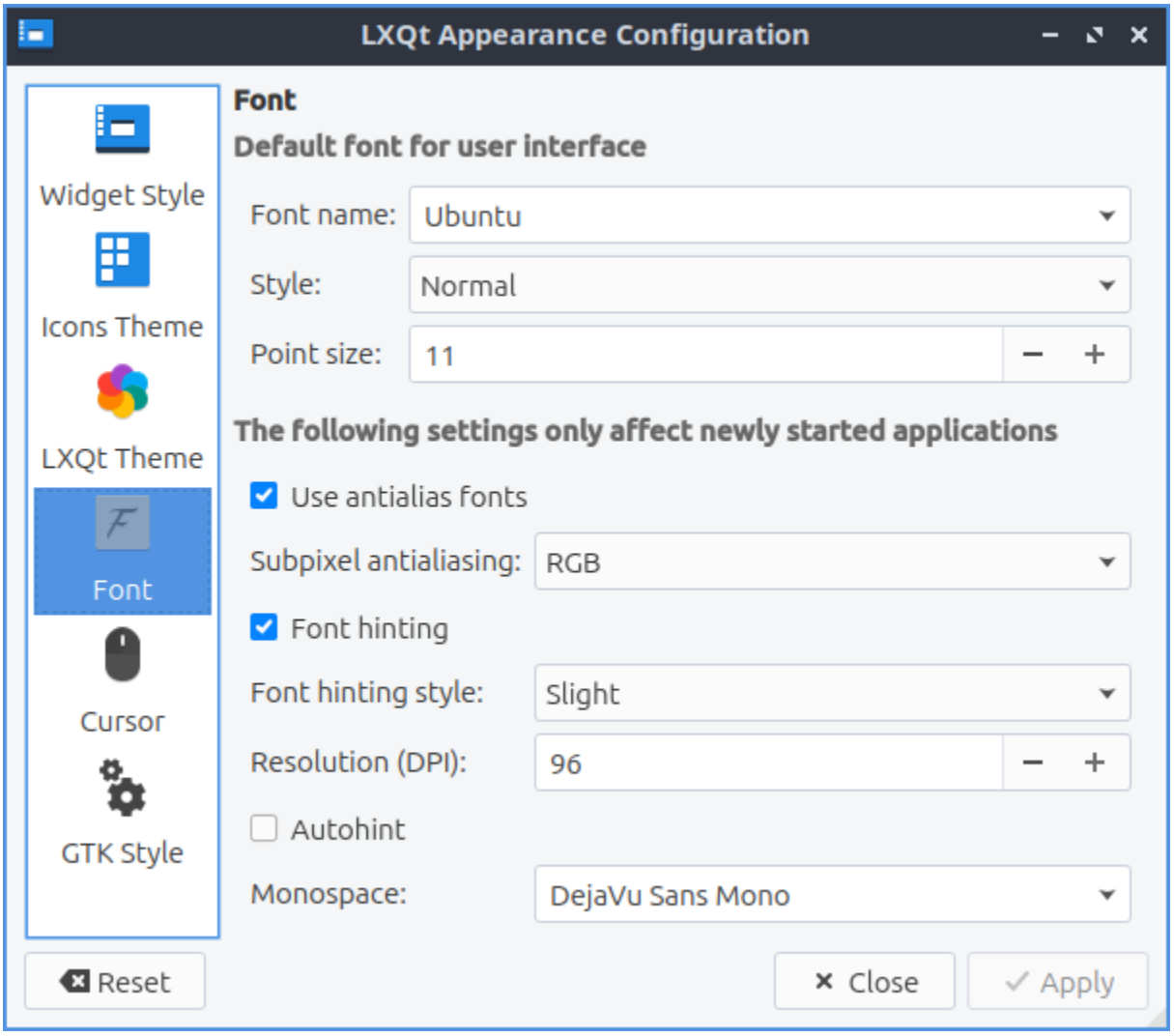
The Icons Theme tab changes desktop icons on your computer and if you click on the icon theme which is previewed on horizontal rows. To find more icon-themes install packages with icon-theme in the name. The icon theme changes how all the icon look and how some button looks in other windows such as the reset button as well. The Colorize Icons based on widget style will slightly change the background icons with the color of the background. However changing an icon theme may not apply until the application is restarted or you log out and back in again.



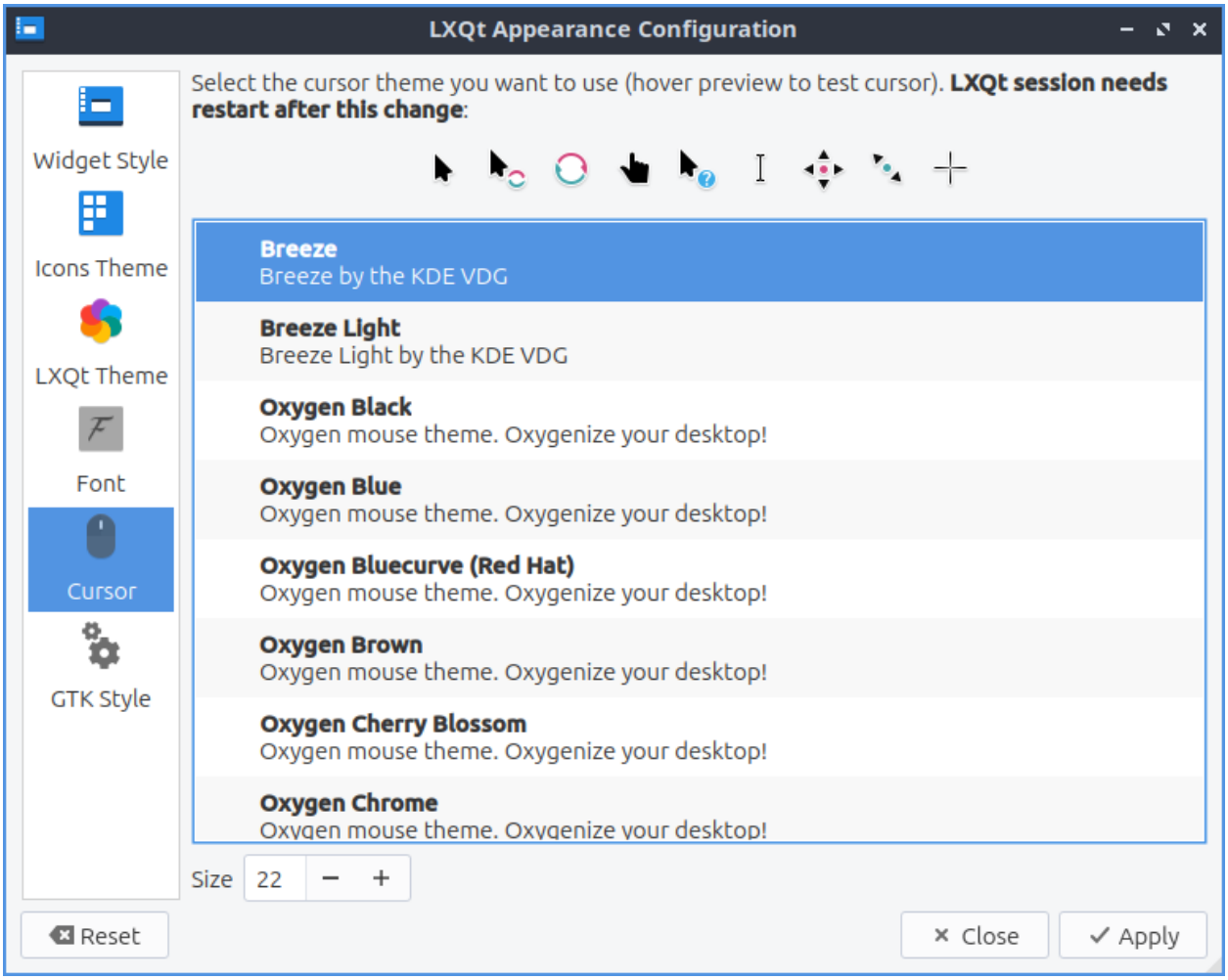
The tab for LXQt Theme lets you change how the panel and notifications appear. To change the theme left click on the theme name to change the theme. To the left of the theme name there is a small preview of the panel and the default button for the panel. The checkbox Override user-defined wallpaper changes your wallpaper to one that comes with the LXQt theme. To use the pallete used by your LXQt theme check the Use palette provided by theme checkbox.



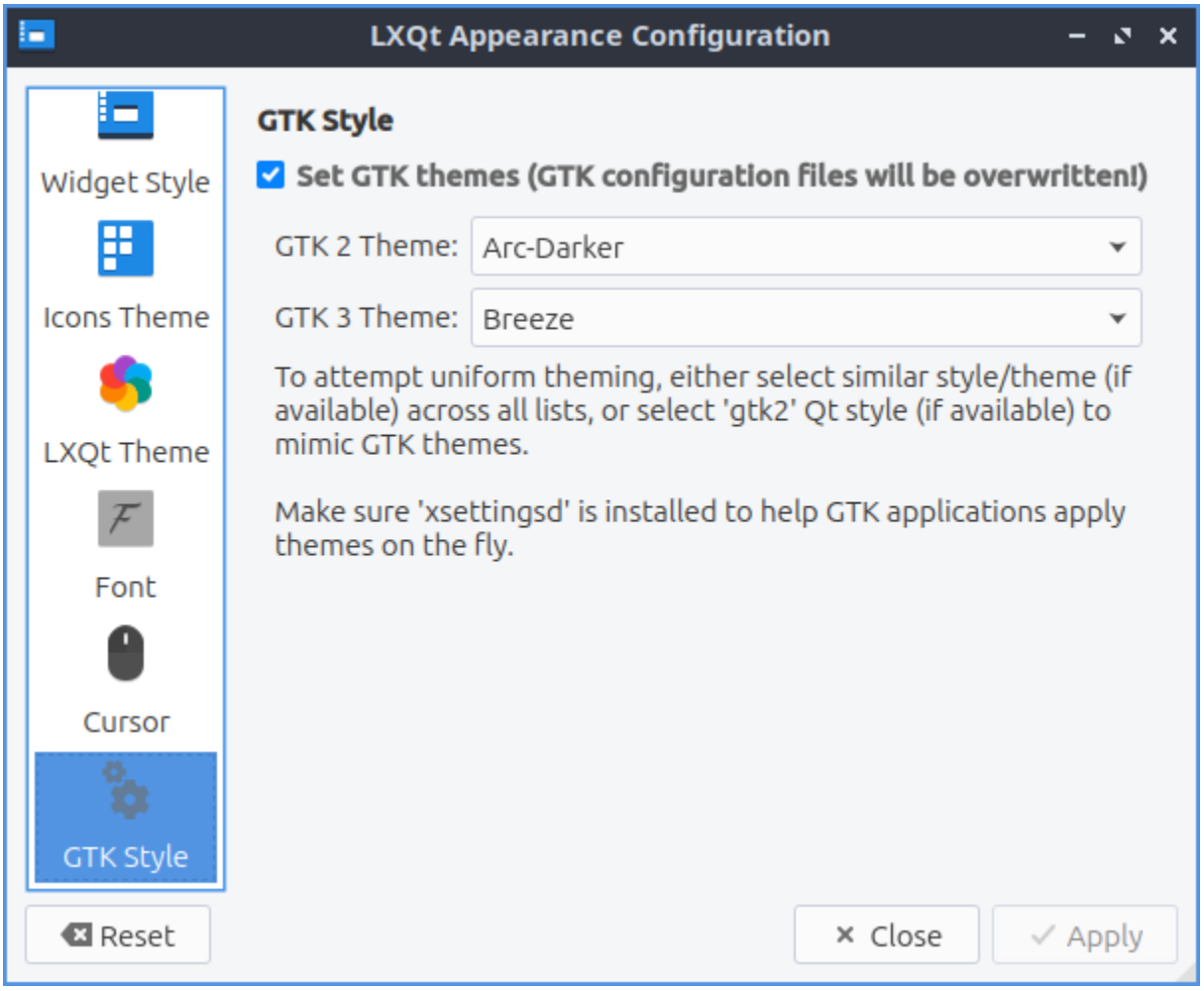
The Font tab has settings for fonts. To change the default font there is the Font name drop down that you can type the font name you or select from the drop down menu. To make the font bold or italic change the Style menu. To change the font size that desktop applications use choose the font tab and change the Point size and enter in the size you want or use the up and down arrows to increase or decrease font size respectively. The checkbox for Use antialias fonts and Font hinting for fonts lets you also set antialiased fonts which are enabled for easier screen viewing. To change how much the fonts are hinted change the Font hinting style drop down menu. The Resolution(DPI) sets the resolution or dots per inch of the screen. To choose a monospace font use the Monospace font drop down.



The Cursor tab has one option to change cursor theme lets you change how the cursor looks with two themes installed by default. To get more cursor themes install packages with cursor theme in the name. To see a preview of the cursor theme it is above all the cursor theme on above the list of themes and moving the cursor turns it into that preview one of cursor to see things spin for example. To change how big the cursor is change the Size field.



To manage settings for GTK applications use the GTK Style tab. Check the checkbox Set GTK themes settings will apply native themes to GTK applications. The field for GTK 2 Theme will select a theme for GTK2 applications. The GTK 3 Theme field sets the theme for GTK3 applications.



If you want to reset your changes you will need to click the Reset button to revert your changes to how they were before. To actually quit by the keyboard press the `Escape` key or press the Close button.

Version

Lubuntu ships with version 2.4.0 of Appearance.

How to Launch

To launch Appearance in the menu LXQt settings ▸ Appearance. Another way to launch Appearance is to press the Appearance button from LXQt configuration center or run

```
lxqt-config-appearance
```

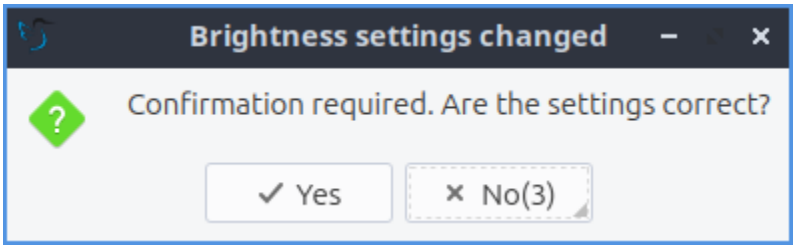
from the command line. The icon for Appearance looks like a screenshot of a monitor with a small window on it.

Chapter 3.2.3 Brightness

Brightness is the default tool to control your screen brightness. If you are using a laptop turning down your screen brightness can increase battery life by a large amount as well however too dim and the screen will be illegible.

Usage

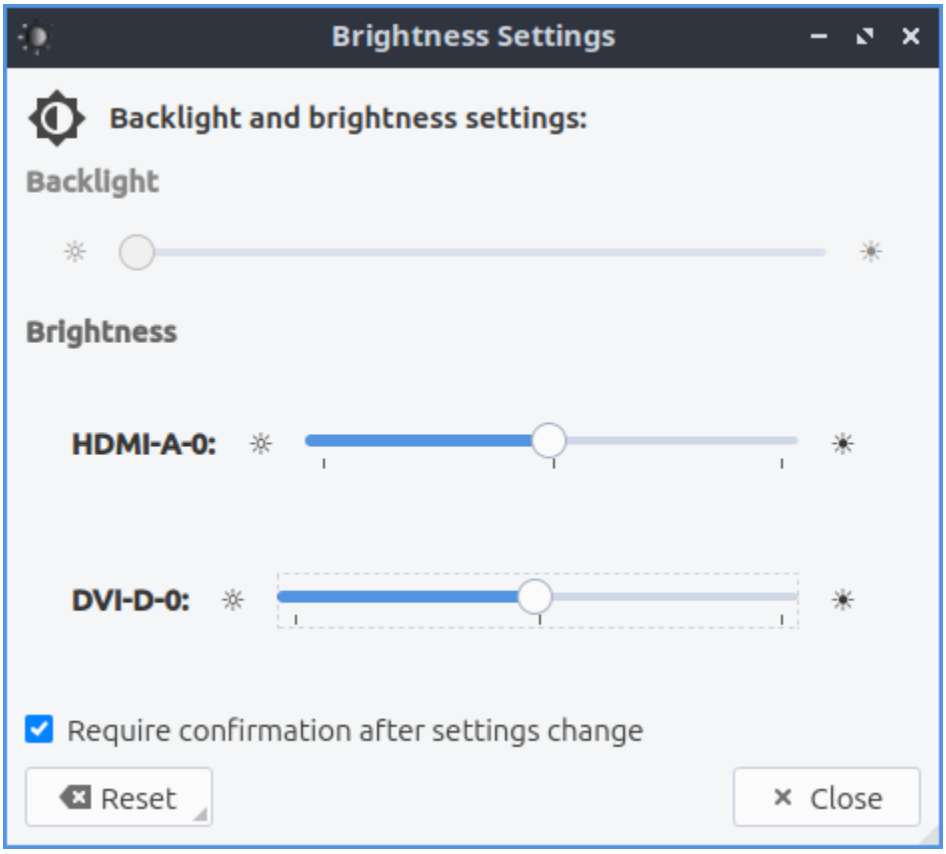
To change how long your backlight it use the Backlight slider. To change the brightness of the screen use the Brightness slider. To make the screen dimmer use the `left arrow` key or click on the slider and drag the dial towards the left. If you want to make the screen more bright press the `right arrow` key or drag the slider towards the right. The name of your display(s) will be on a slider on the center. After doing this you will be asked to confirm the current brightness is OK while needing to select Yes. If you do not respond it will revert the old brightness which is useful because if you made your screen illegible it will revert to the old settings. Using a less bright backlight will result in longer battery life.



If you have multiple displays and want to change the brightness of each monitor individually it will be shown with the name of the monitor will be shown on a slider for each monitor.

If you do not want to confirmation uncheck the Require confirmation after settings change checkbox. To close Brightness press the `Escape` key or press the Close button.

Screenshot



Version

Lubuntu ships with 2.4.0 of Brightness.

How to Launch

To launch Brightness from the menu LXQt settings ▸ Brightness. Another way is to press the Brightness icon on LXQt Configuration Center or run

```
lxqt-config-brightness
```

from the commandline. The icon for Brightness looks like a half moon with a gear in the background.

Chapter 3.2.4 Date and Time

Date and Time is a program that changes your timezone and toggle whether to use NTP or manually set the time.

Usage

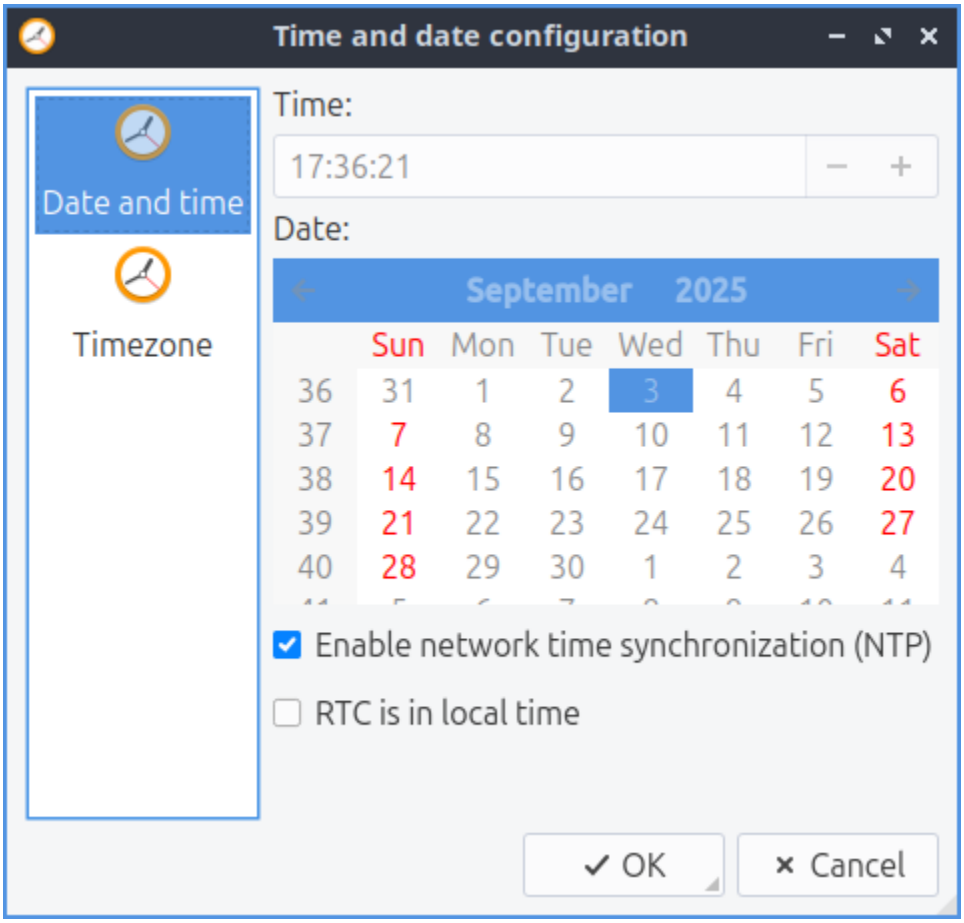
The tab for Date and time sets what time it is and settings for synchronize it via the network. If you want to toggle synchronizing the time of network check/uncheck the Enable network time synchronization(NTP) check. The checkbox for RTC is in local time is for the real time clock on your motherboard being in local time rather than UTC.

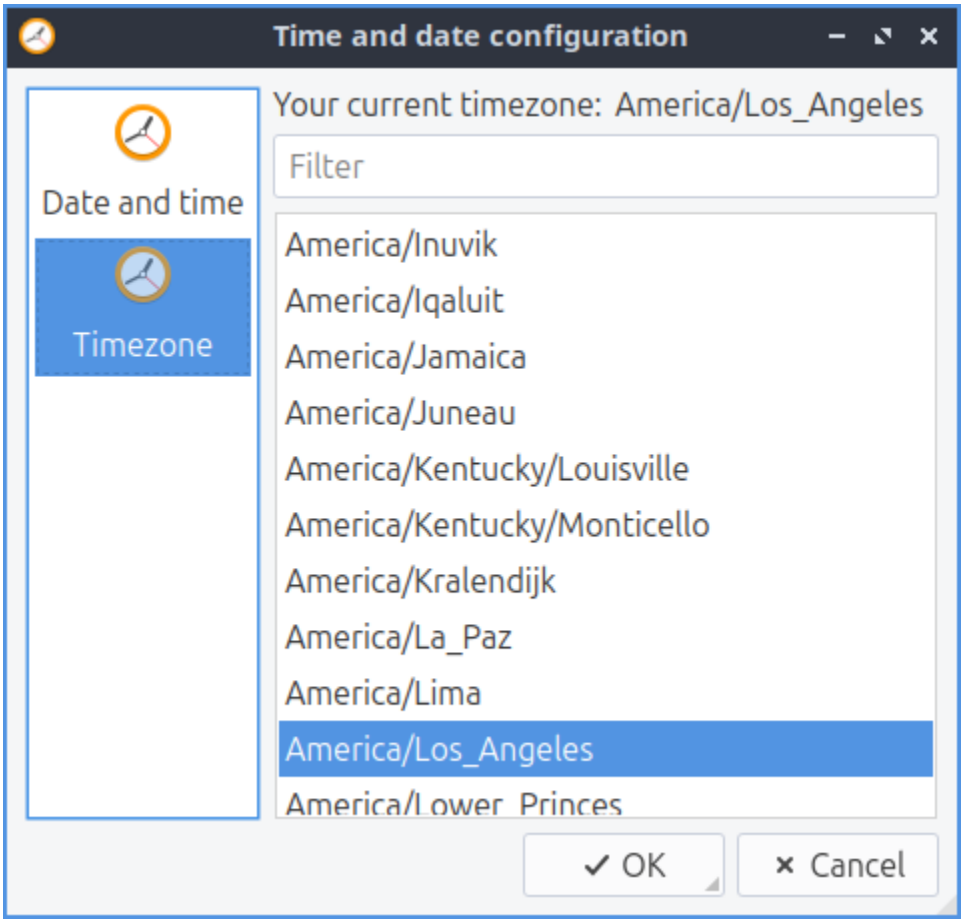
To change the timezone of your computer left click the Timezone tab and select your time zone from the long list. You also can search for your timezone in the search bar that says Filter when you type it in and is empty.

If you do not wish to synchronize your clock via network time protocol uncheck the Enable network time synchronization (NTP) checkbox. This can also be quite useful if you want to fix the time and Once NTP is disabled you want to be able to change your time locally you will be able to change your time by typing your time in the correct time in the Time field or using the up and down arrows. To change the date in your calendar left click on the day in the calendar. To change what month it is click the left or right arrows on the top bar over the calendar or change month from the month in the top of the calendar. To change the year left click the year and click on the year and type in the year.

To cancel your changes in Date and Time press the Cancel button. To close Date and Time press the `Escape` key.

Screenshots





Version

Lubuntu ships with version 2.4.0 of Date and Time.

How to Launch

To launch Date and Time from the menu LXQt settings ▸ Date and Time. From LXQt Configuration Center under the system settings header at the bottom press the Date and Time button or from the command line run

```
lxqt-admin-time
```

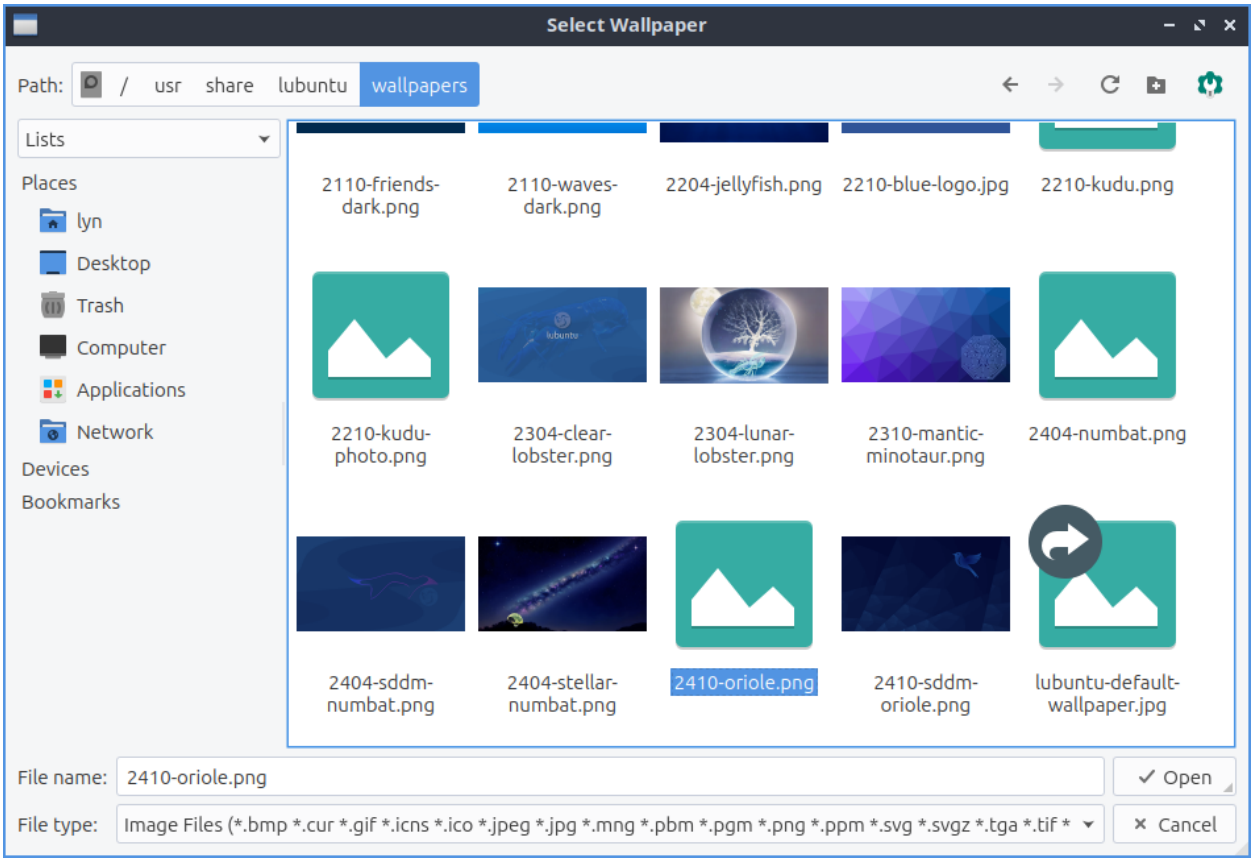
The icon for Date and Time looks like an analog clock.

Chapter 3.2.5 Desktop

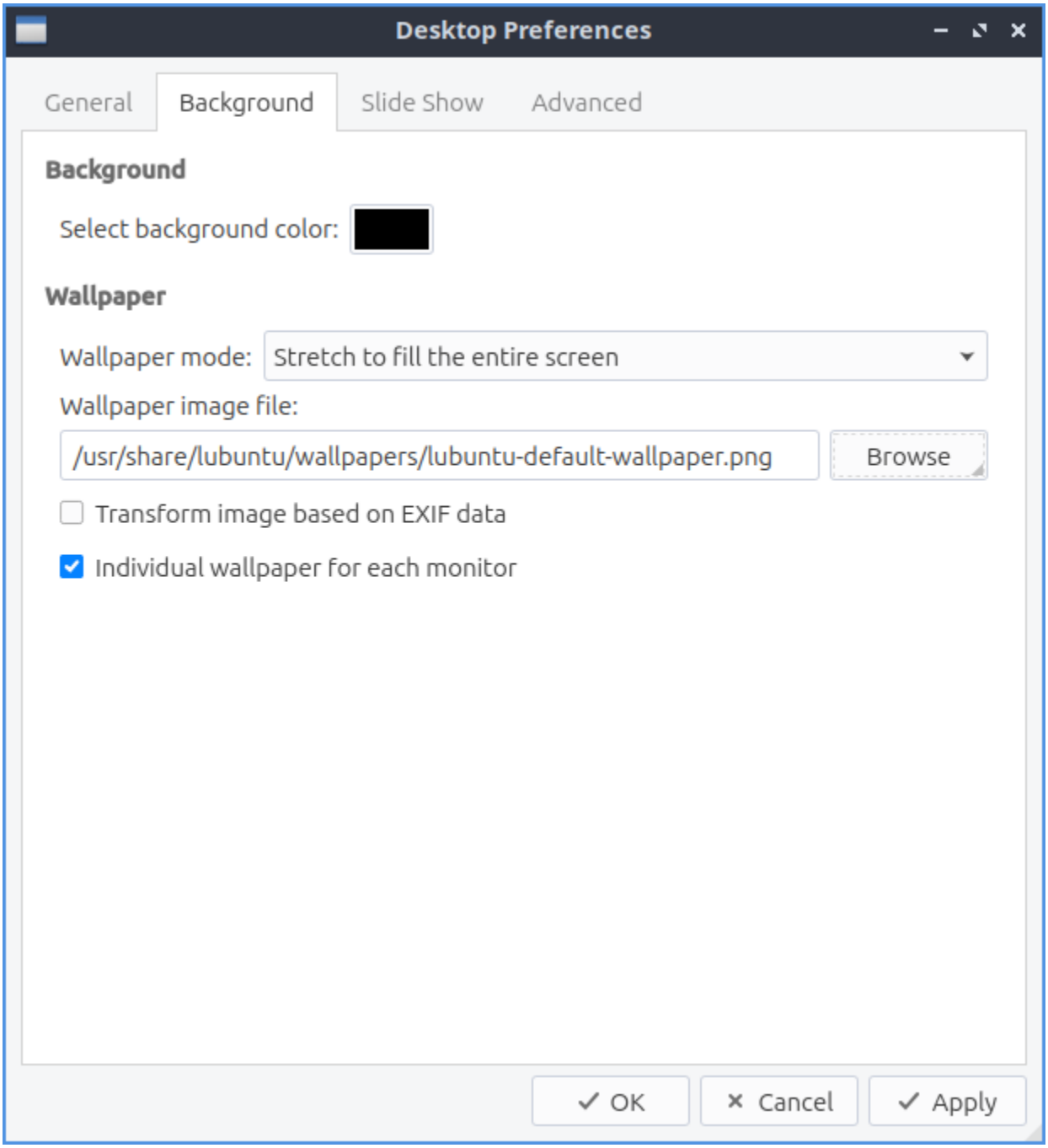
Desktop is an application to change the desktop background, the appearance of icons, and even desktop slideshows.

Usage

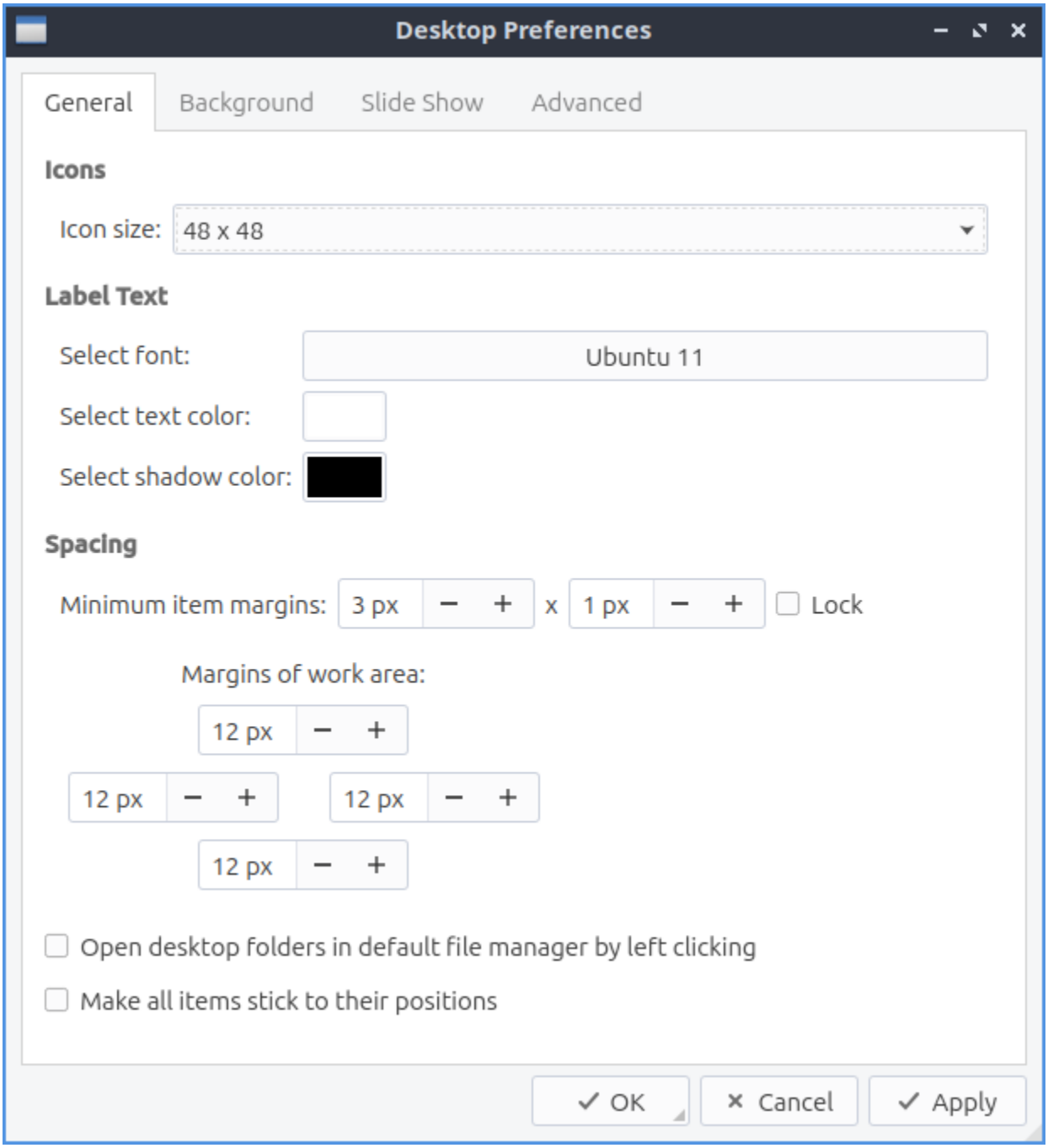
The Background tab has settings for desktop background. To change the desktop background you can either type the path of the file you can type in Wallpaper image file or use the Browse button to bring up a dialog to choose which the desktop.



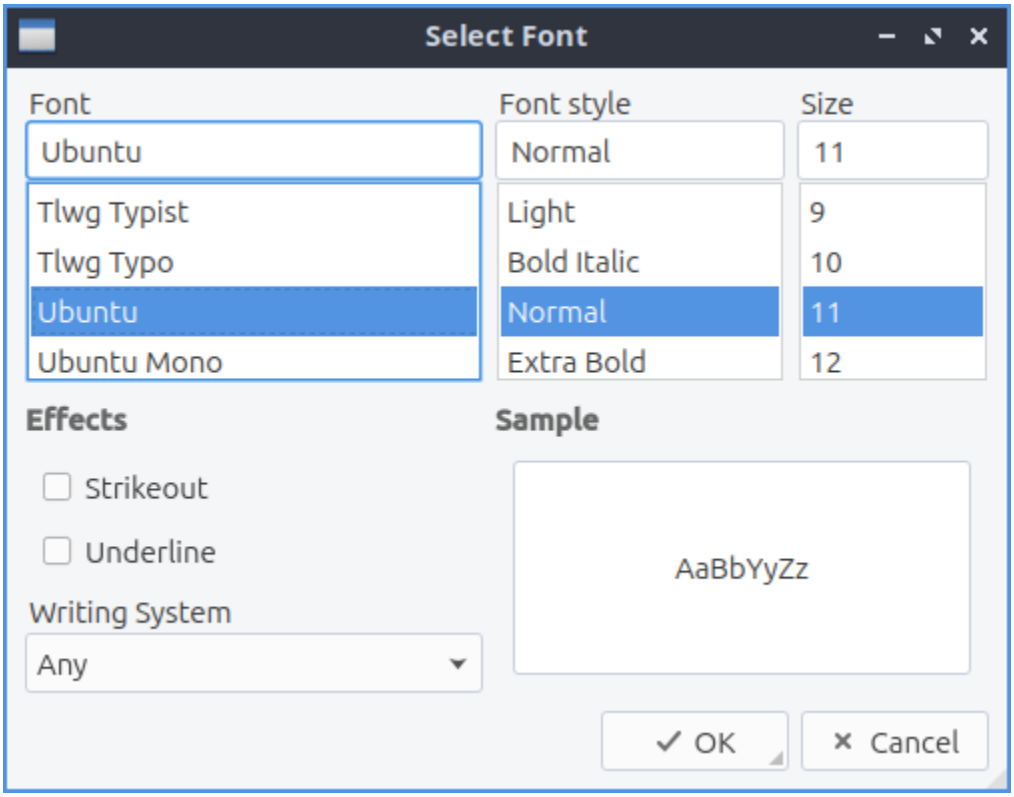
To change the background color if you select that press the button to the right of Select background color. The drop down menu Wallpaper mode lets you change how the image you select for a wallpaper is made to fit on the screen. If you want an image to have multiple copies of a smaller image select tile image from the drop down. If you do not want an image and just a solid color select fill with background color only. To have the image oriented based on metadata check the Transform image based on EXIF data checkbox. To use a different wallpaper on each monitor check the Individual wallpaper for each monitor. If your wallpaper looks stretched and you don't want it to you can select Center on the screen. This is also useful if your multimonitor setup has the wallpaper split across monitors awkwardly and you want the same wallpaper twice.



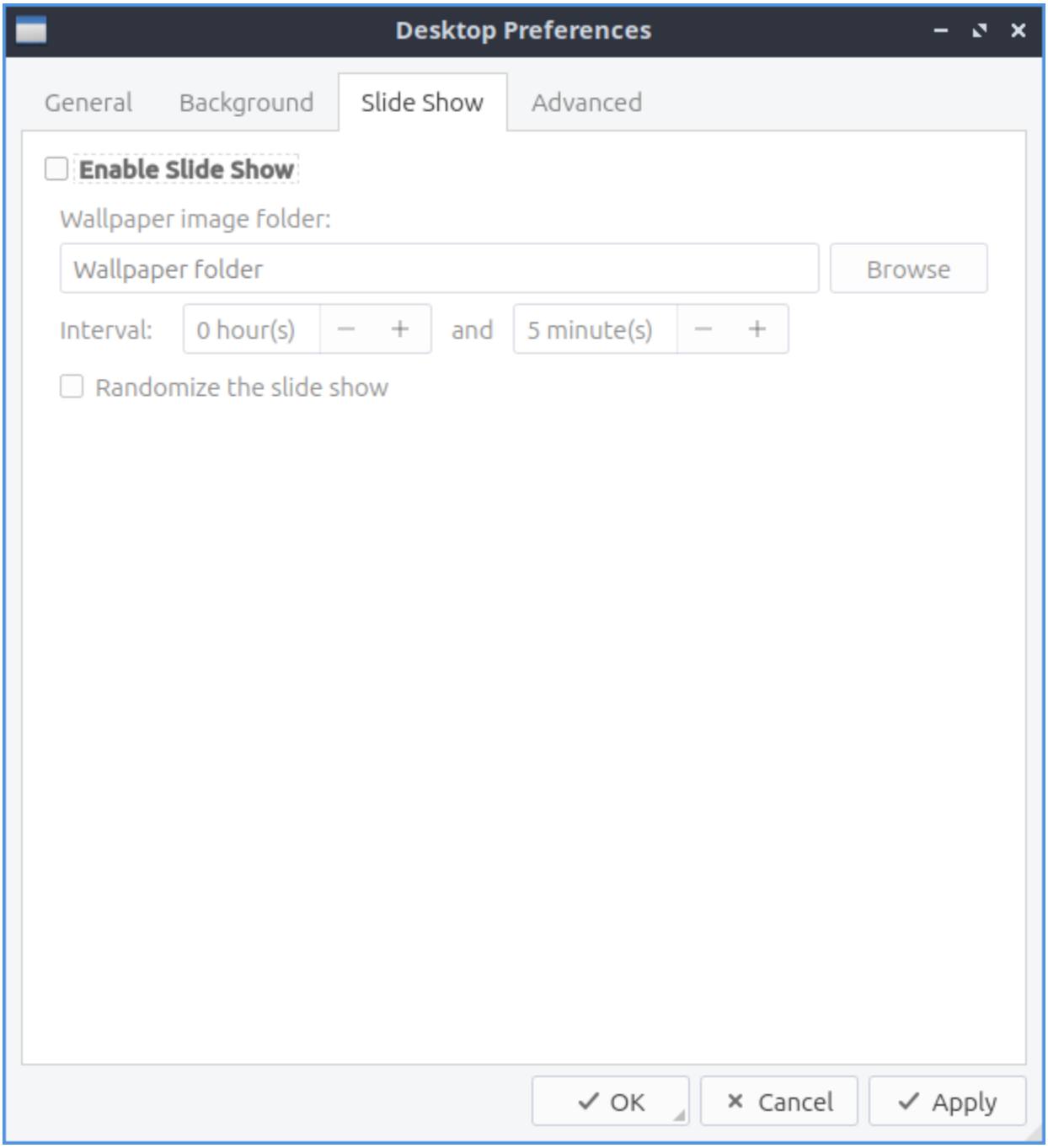
The General tab has settings for text on desktop icons and text colors and icon sizes. The drop down menu Icon size lets you choose a different size of desktop icons you can choose a size that looks good on your screen. The box Select text color brings up a widget to pick the color on desktop icons and files. The field Select shadow color changes the shadow on the shadow around the icon. To change the margins change the fields for Minimum item margins field for different coordinates. To change the margins of desktop icons to the edge of the screen in the Margins of work area field. To make the margins always the same number of pixels check the Lock checkbox. To open folders on the desktop in PCManFM-Qt check the Open desktop folders in default file manager by left clicking checkbox. To make an item stay in the same place check the Make all items stick to their positions checkbox.



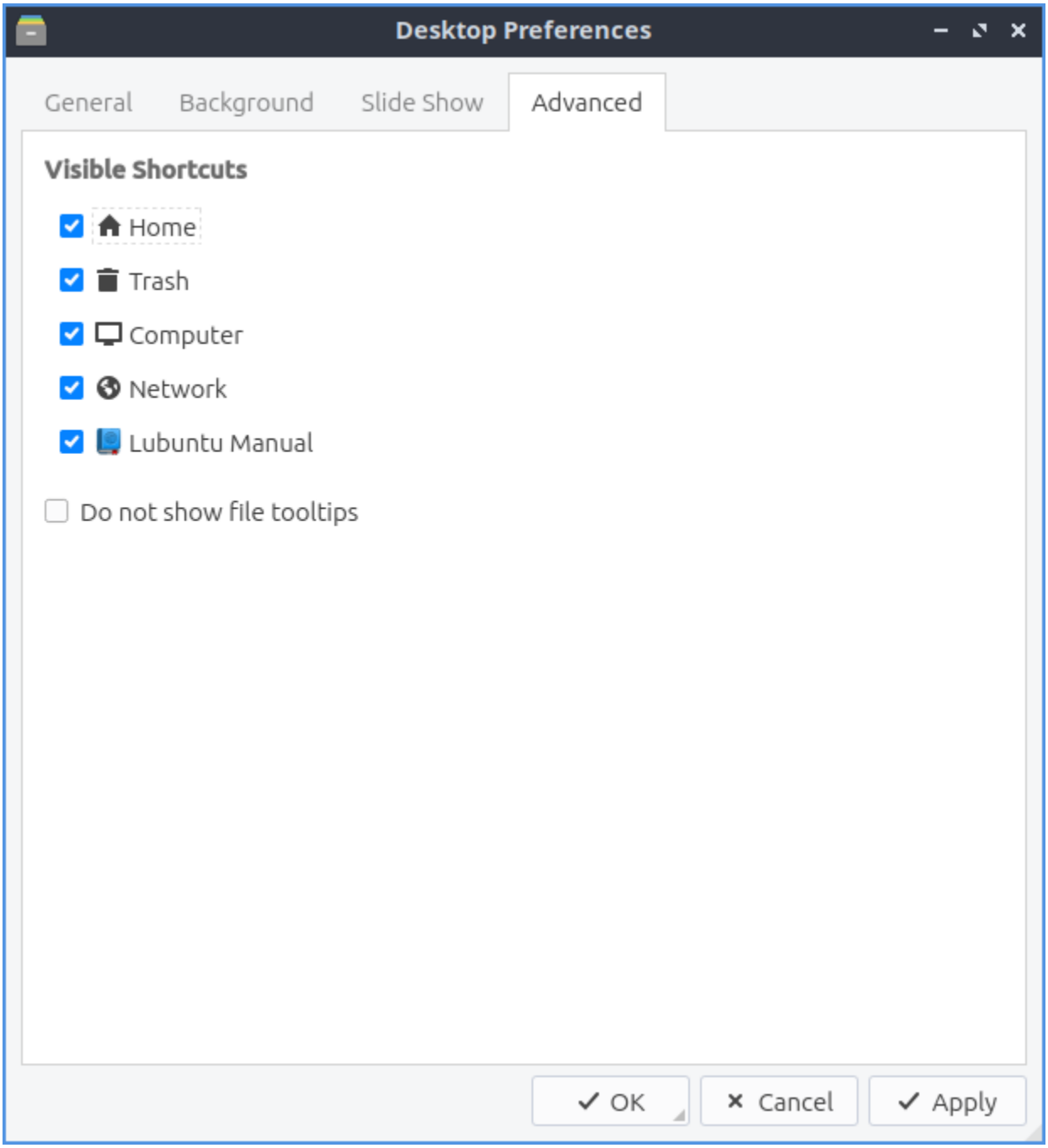
The box labeled Select font lets you choose which font and size information from a dialog box. On the left is the Font for which font to select on on the bottom or type the name on top. The middle lets you choose the Font style of the font on your desktop. On the far right is a choice for the Size of your font which you can select from the menu. To have your text of your font underlined check the Underline checkbox. To change what languages your fonts can support choose your language in the Writing System drop down menu. To preview how the text will appear look in the Sample box.



The Slide Show tab shows settings for slide show of changing your wallpaper automatically like a slide show. The checkbox Enable Slide Show enables the slide show that auto changes your wallpaper. The field Wallpaper image folder changes the path to find the different pictures for the slideshow or to find a folder press the Browse button. To change how long it takes for the slideshow of the desktop background to change change the fields in Interval fields for changing how fast the slideshow changes. To randomize the order of the slide show check the Randomize the slide show checkbox.



The Advanced tab has settings for default desktop icons or included. To show or hide any of the default desktop icons check/uncheck the checkboxes for: Home, Trash, Computer, Network, or Lubuntu Manual. To not show file tooltips check the Do not show file Tooltips checkbox.



To quit Desktop press the Escape key.

Version

Lubuntu ships with 2.4.0 of Desktop.

How to Launch

To launch Desktop from the menu LXQt settings ▸ Desktop, from LXQt Configuration Center press the desktop button to launch it, or run

```
pcmanfm-qt --desktop-pref=general
```

from the command line. Another way to launch this is to right click on the desktop and select Desktop Preferences. The desktop icon for Desktop Preferences is a monitor with a bar at the top and a smaller bar at the bottom.

Chapter 3.2.6 Notifications

Notifications is the program that changes desktop notification settings such as when someone mentions your name on internet relay chat or the first time you run to configure your power management settings.

Usage

To quit the Notifications press the `Escape` key or press the Close button. To reset your changes press the Reset button.

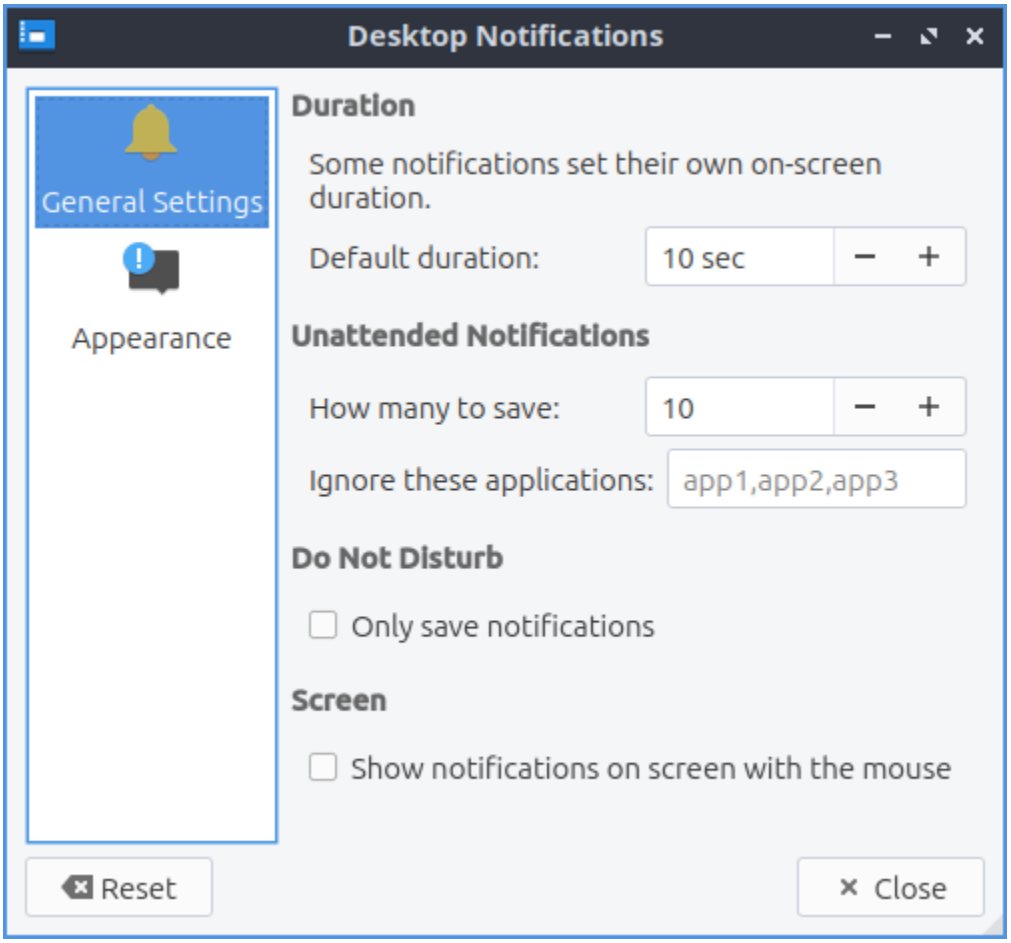
The General Settings tab lets you change the duration of desktop notifications and their spacing. The Default duration field sets how long to show a notification with a default of 10 seconds.

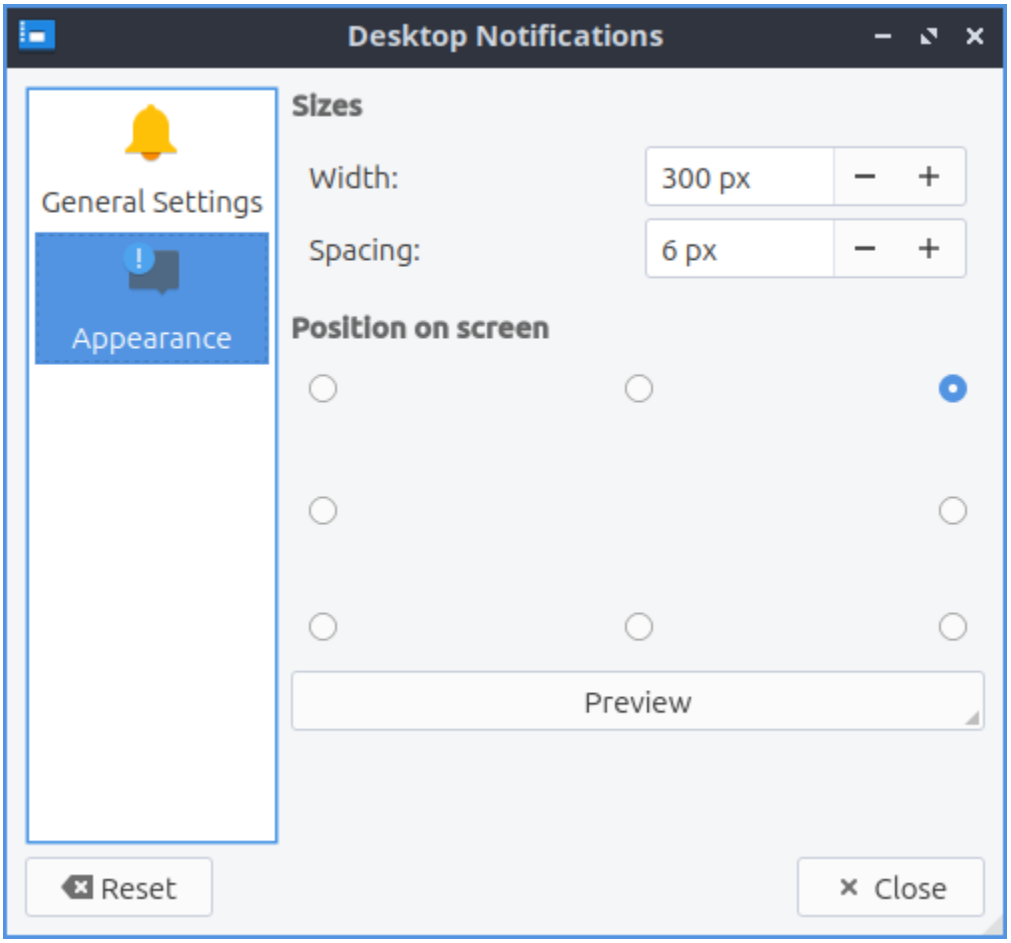
If you want to deal with notification when you are away from your computer use the settings under Unattended Notifications. To change the max number of notifications change the How many to save field. To ignore particular notification type a comma separated list composed of the top line of the notification exactly as shown in the Ignore these applications field.

To not be disturbed by notifications check the Only save notifications checkbox. To show notifications on the monitor with the mouse check the Show notifications on screen with the mouse checkbox.

The Appearance tab lets you change where Notifications appear on your screen. Click the button that appears under Position on screen on the portion of your screen where you want them with the outline being your window. The Width field lets you choose how wide to make notifications with a minimum of 100 pixels. The Spacing field changes how far to place the notifications from each other. To test where a notification will pop up press the Preview button.

Screenshots





Version

Lubuntu ships with version 2.4.0 of Notifications.

How to Launch

To launch Notifications from the menu LXQt settings ▸ Notifications. The icon for Notifications looks like a ! in a chat bubble. You can also launch Desktop Notifications from left clicking on the docked notifications tray icon and Options. To launch Notifications from the command line run

```
lxqt-config-configurationd
```

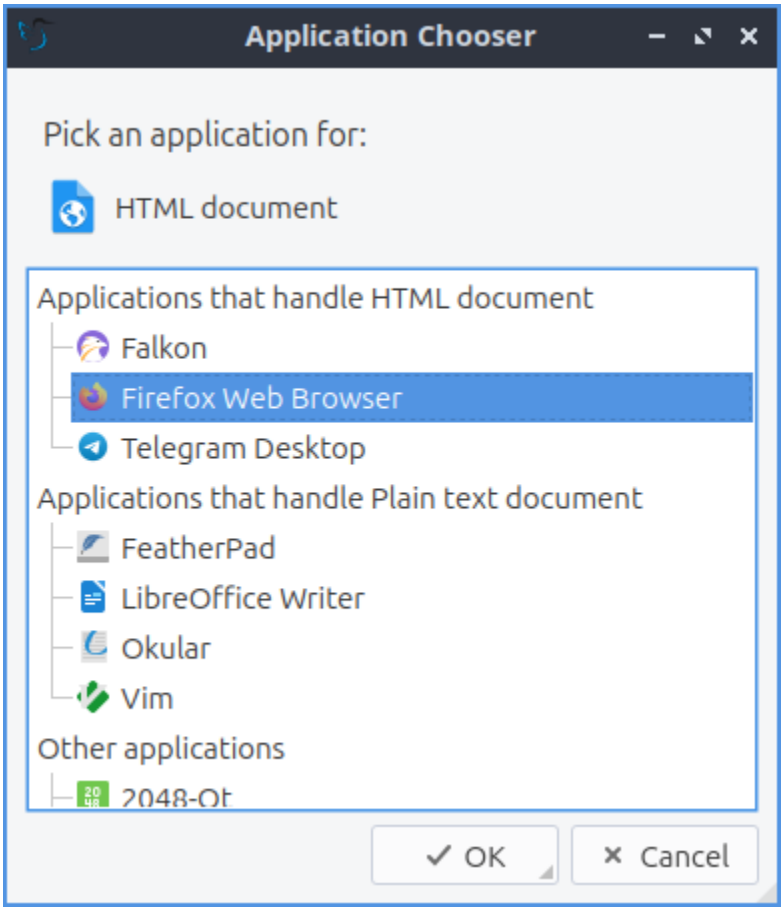
Chapter 3.2.7 File Associations

File Associations changes the default application to open a file.

Usage

To change which filetype to use for applications use the Associations tab. To search for which file extension you want to change to open in another program you can search in the top box with a magnifying glass for that file format. On the left is really long collapsible list of all mimetypes that you can change look through but searching will be much faster. To expand a

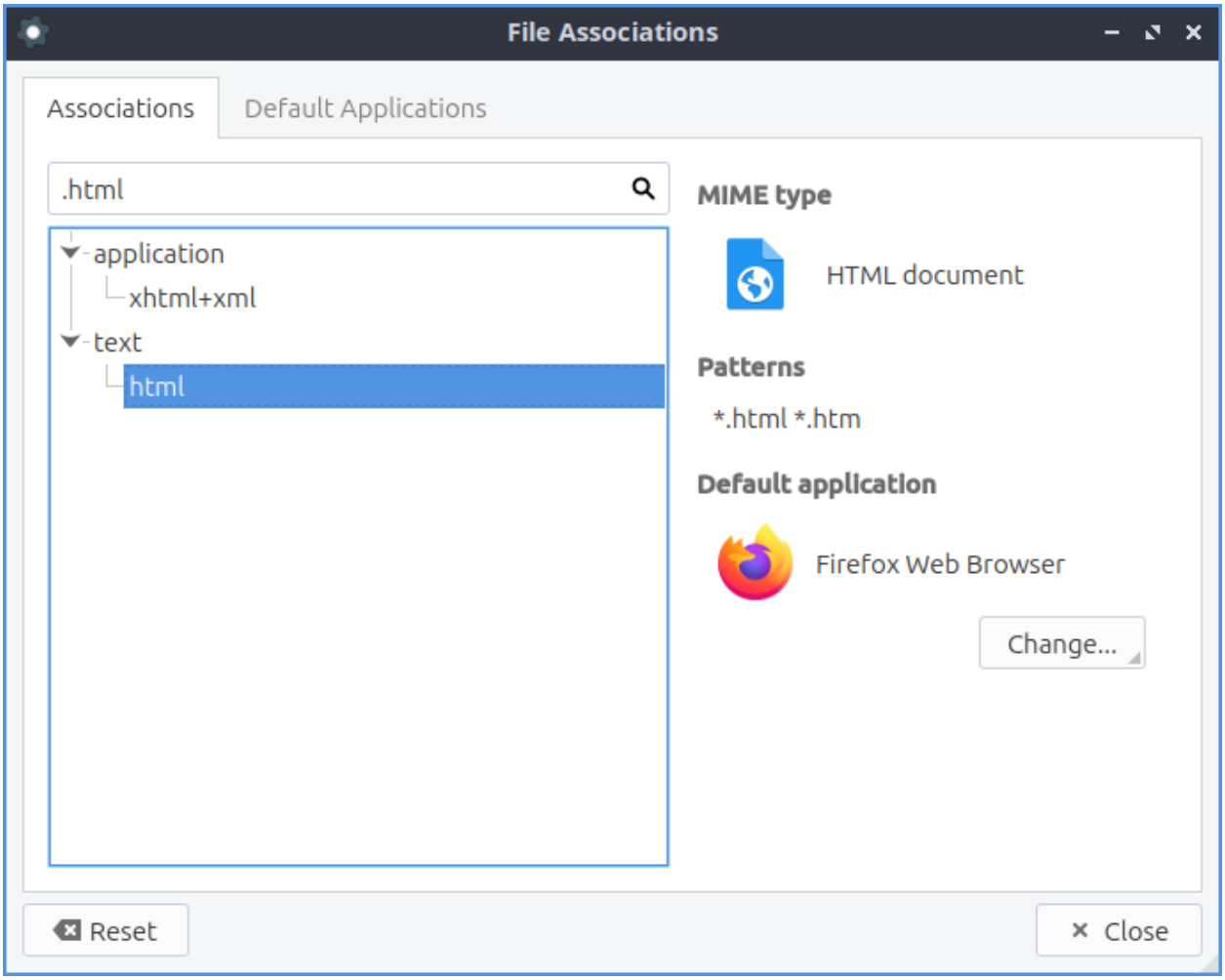
particular group of mimetypes from the group on the left press the + button. To collapse a group of mimetypes press the - button. Once you find the filetype you want to change on the top right it tells you what kind of file that MIME type is. To see what file name extensions usually used for this kind of file read the Patterns field. The current default is shown on the lower right with a Change button that brings up a menu for you to change it to something else. If you do not have a default application set you can press the Choose button to set a default button. To change a default press the Change button and it brings up a menu to choose the new default program for this kind of file.



To choose several common programs to end up using as default application use the Default Applications tab. For each application to change to a different default application press the Change button.

To reset your changes press the Reset button if you don't want to keep your buttons. Once you are happy with your choices press the Close button or press the `Escape` key.

Screenshot



Version

Lubuntu ships with version 2.4.0 of File Associations

How to Launch

From the menu LXQt settings ▸ File Associations or from the command line run

```
lxqt-config-file-associations
```

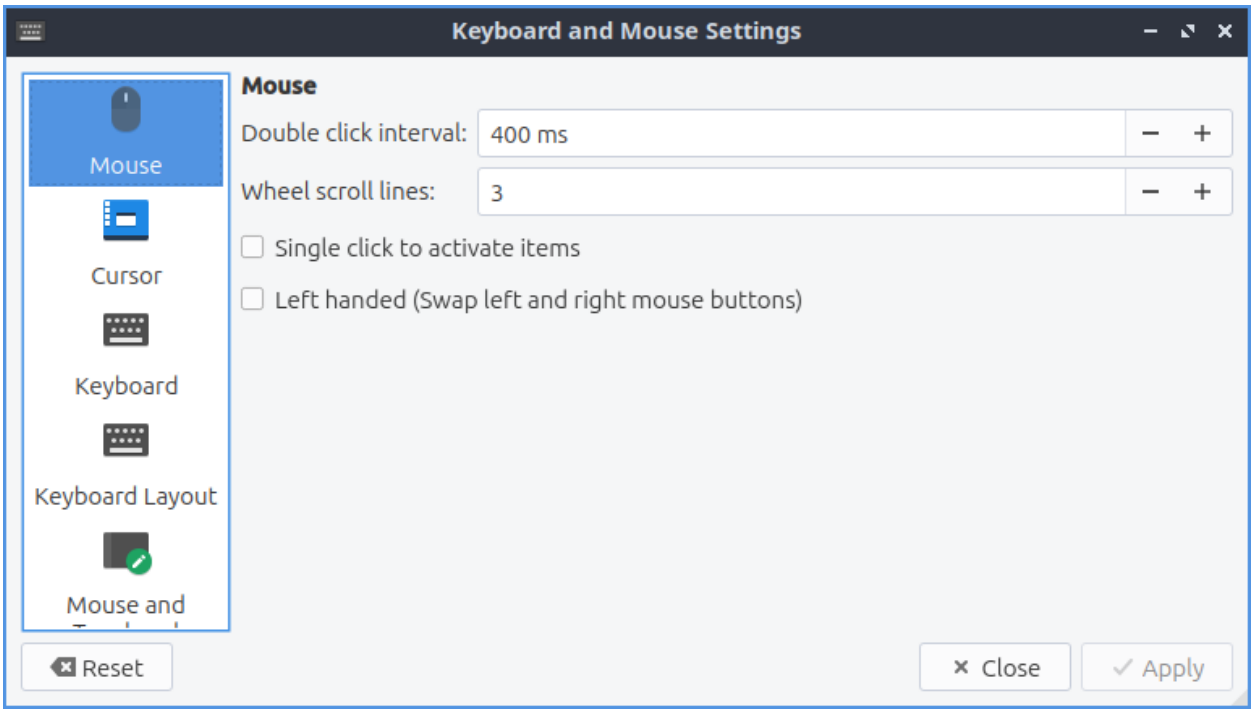
The icon for File Associations is a gear with a white circle on top.

Chapter 3.2.8 Keyboard and Mouse

Keyboard and Mouse is the program to change the behavior of your keyboard, mouse, and touchpad.

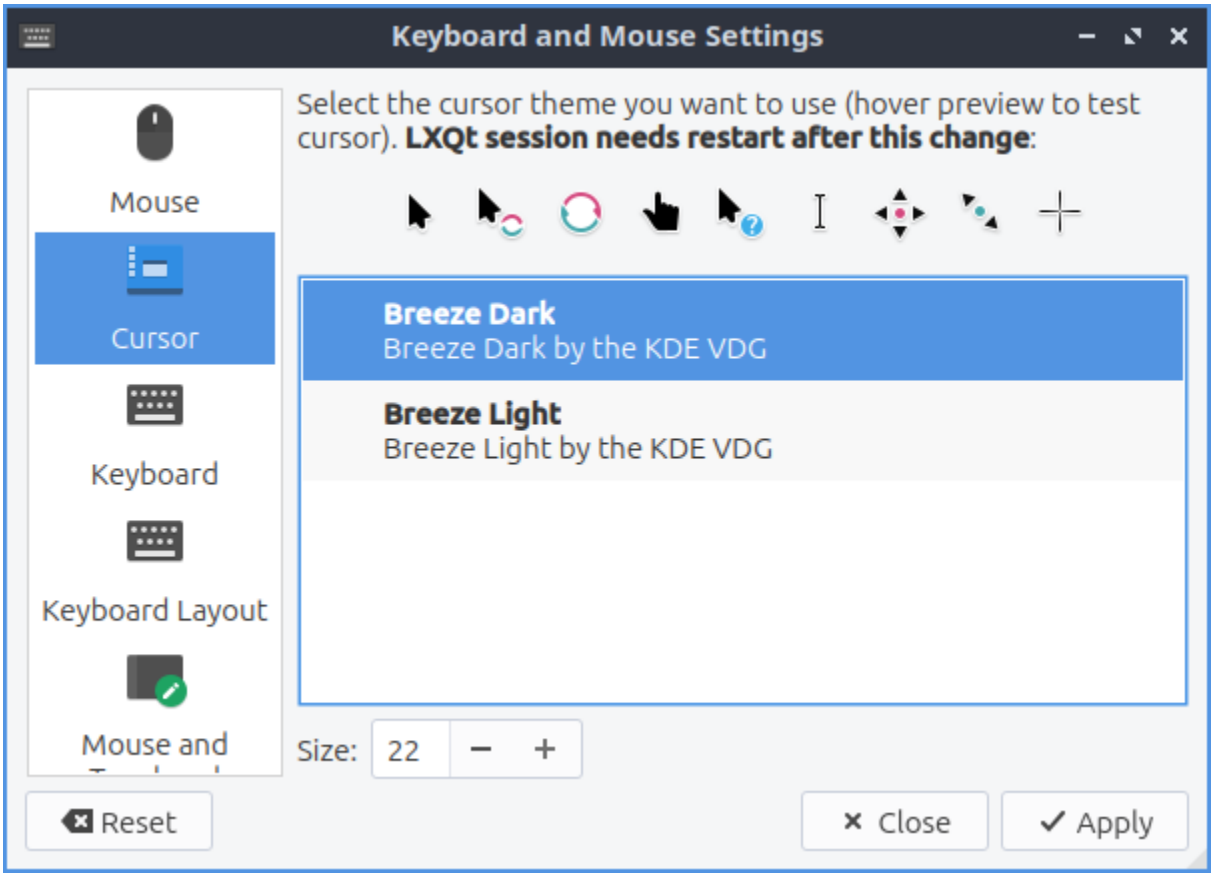
Usage

The Mouse tab provides settings for how fast the mouse moves, scrolls, and double clicks. To change how much time you have to have a click a double click change the Double click interval. The Wheel scroll lines field changes how many lines of text you scroll when you use the scrollwheel. If you wish to only have to tap once to perform a left click check the Single click to activate items checkbox. If you wish to swap left and right buttons on your mouse check the Left handed checkbox. Note that this also swaps the buttons on a touchpad. The settings should apply immediately so make sure the mouse moves how you want it.

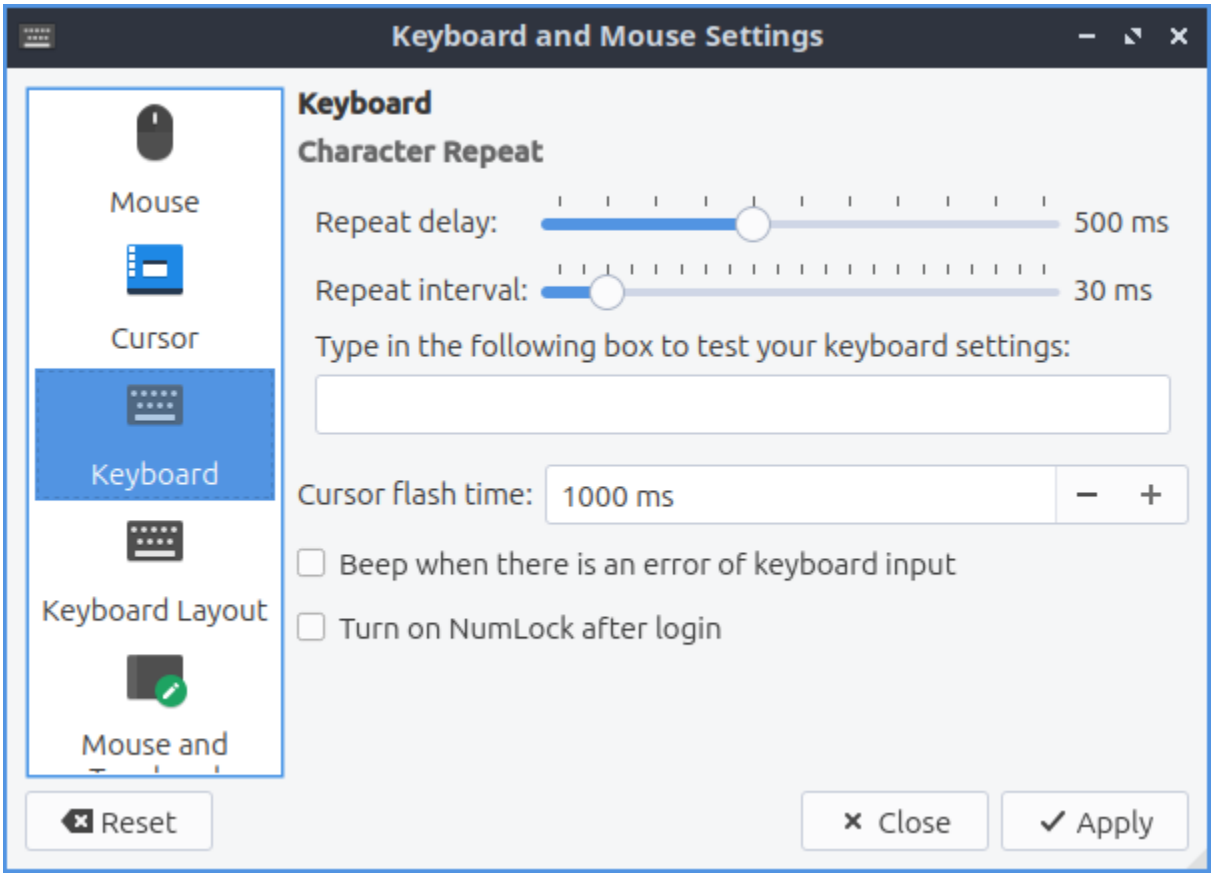


If you do not like the new settings press the Reset button to go back to your previous settings. If you want to close Keyboard and Mouse press the `Escape` key or press the Close button. To have your changes take place press the Apply button.

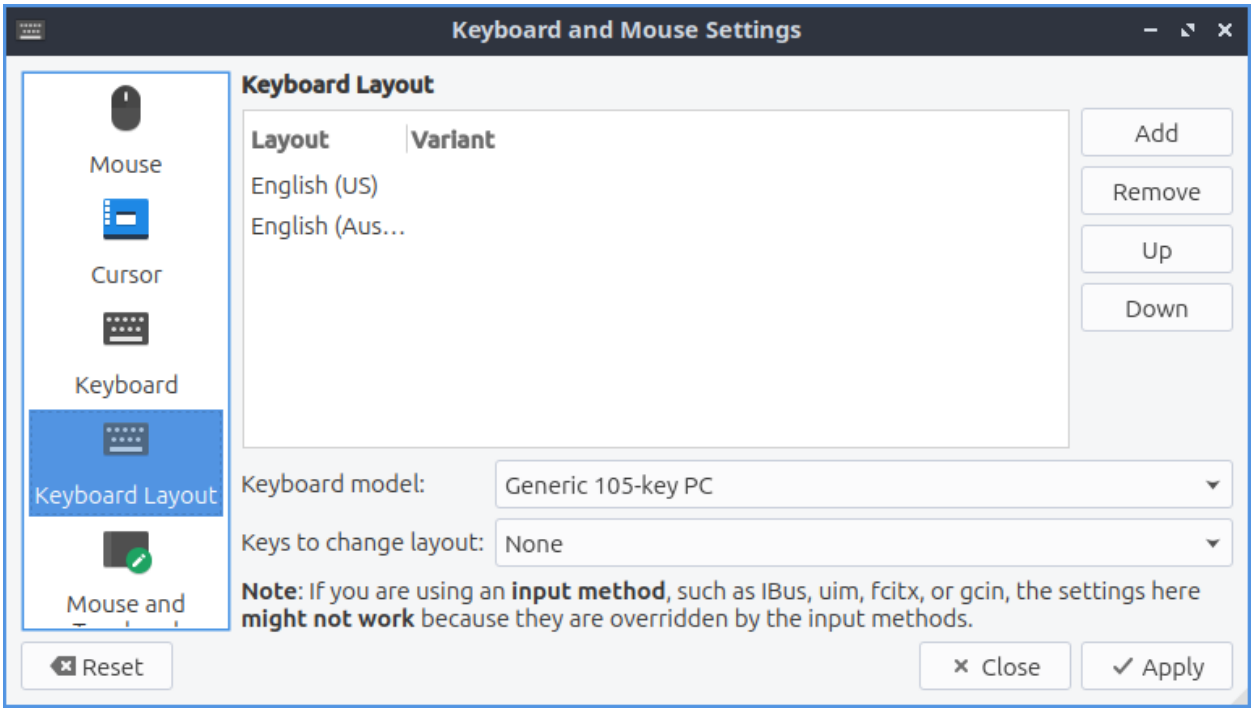
The Cursor tab on the left lets you change your cursor theme which is quite useful if you are say running virtual machines so the cursor does not look the same in the host and the guest. To change a theme scroll down to which theme you want under preview but you will have to logout and log back in again for this to fully take effect. To change the size of the cursor change the Size field.



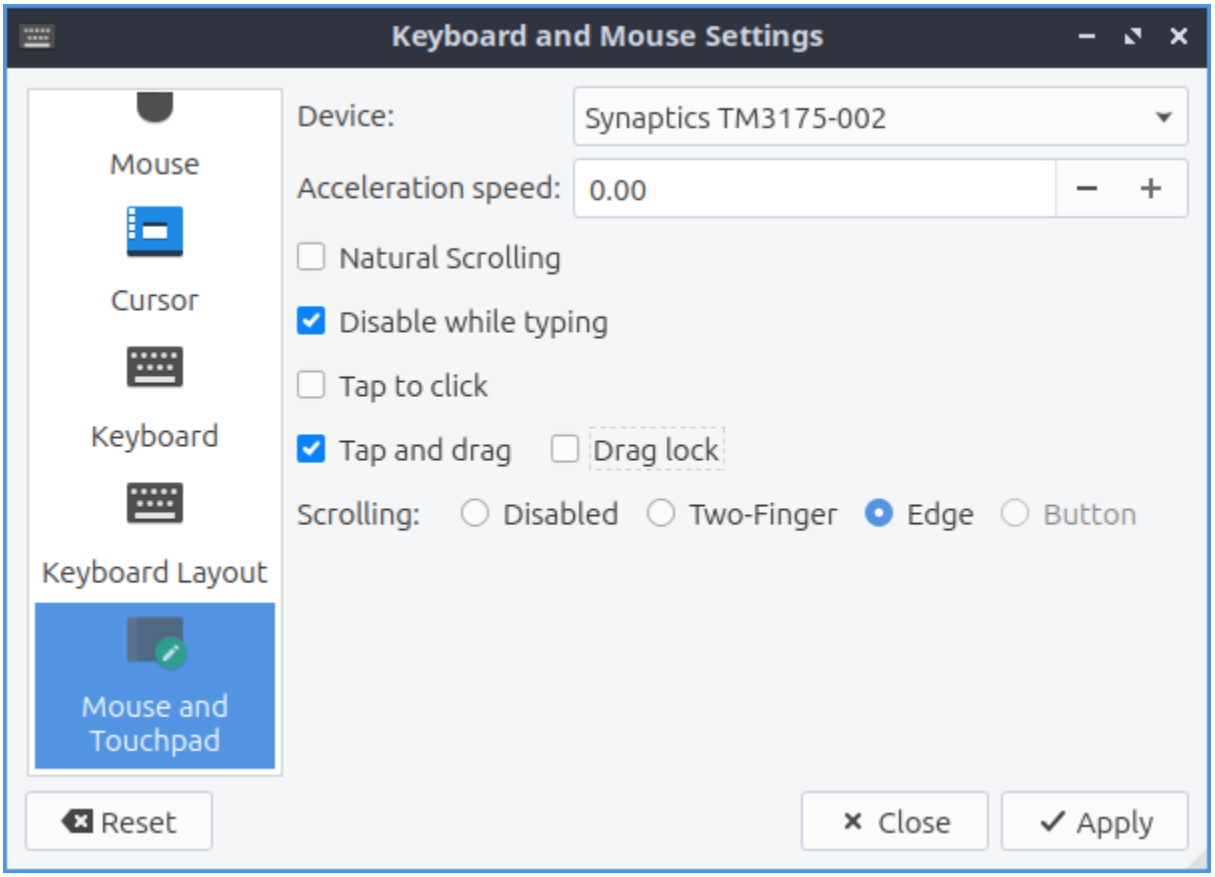
The Keyboard tab has settings for changing keyboard settings. If you want to change how quickly it takes to repeat a keyboard keypress move the slider to the right on the Repeat delay to take longer to repeat key presses or to the left to decrease the time it takes to repeat. The Repeat interval is how quickly after the repeat delay the held down key will repeat itself which moving to the right will make it take longer to increase while to the left will make it take a short time to repeat itself. To test your keyboard settings type in the Type in the following box to test your keyboard settings text box. To change how fast the keyboard flashes change the Cursor flash time field. The Turn on numlock after login checkbox will make numlock automatically be on after you login.



The Keyboard Layout tab has settings to add a new keyboard layout. In the top center of the window is a listing of your current keyboard layout and any variant applied to it. To add a keyboard layout press the Add button. To remove the keyboard layout left click on the keyboard and press the Remove button. To move a keyboard layout up or down press the Up or Down buttons. To change your keyboard model in choose your keyboard model in the Keyboard model drop down. To set the key to change between different keyboard layouts change the Keys to change layout menu.



The Mouse and Touchpad tab has settings for touchpads. To select which touchpad to change settings use the Device drop down menu. To change how fast your touchpad accelerates use the Acceleration speed field. To tap the touchpad once to register a left click check the Tap to Click checkbox. To reverse the scrolling direction check the Natural Scrolling checkbox this kind of scrolling is common on devices with touchscreens. To tap on the touchpad to drag items instead of having to click on the button and use the touchpad at the same time check the Tap and drag checkbox. To enable drag lock to keep draging without holding a button down chack the Drag Lock checkbox. To disable scrolling by the touchpad press the Disabled button to the right of Scrolling. To use two fingers to scroll on the touchpad press the Two-Finger button. To use the edge of the touchpad to scroll press the Edge button.



Version

Lubuntu ships with version 2.4.0 of Keyboard and Mouse.

How to Launch

To launch Keyboard and Mouse use menu LXQt settings ▸ Keyboard and Mouse. In LXQt Configuration Center press the Keyboard and Mouse button or from the command line run

```
lxqt-config-input
```

The icon for Keyboard and Mouse is a black mouse with white scrollwheel.

Chapter 3.2.9 Locale

Locale changes your locale which changes your language and how things are translated on your desktop environment.

Screenshot



Usage

To change your locale the Region shows the name of your local and in the drop down menu you can type the name of your locale to search through the locales or scroll through the long list. Under the Examples will show how numbers Time Currency and measurement units will be shown on your system. If you do not like the changes you can press the Reset button. To close Locale press the `Escape` key or push the Close button.

The checkbox for Detailed Settings allows for even more customization. To change how the thousands separator and decimal point appear in number change the Numbers drop down menu. To change the order of the time and date choose the Time drop down menu. To change how currency appears on your system change the Currency drop down menu for currency. To change which measurement units change the Measurement Units drop down.

To see how the current locale will appear read it under the Examples heading.

Version

Lubuntu ships with version 2.4.0 of Locale.

How to Launch

To launch Locale from the menu LXQt settings ▸ Locale or run

```
lxqt-config-locale
```

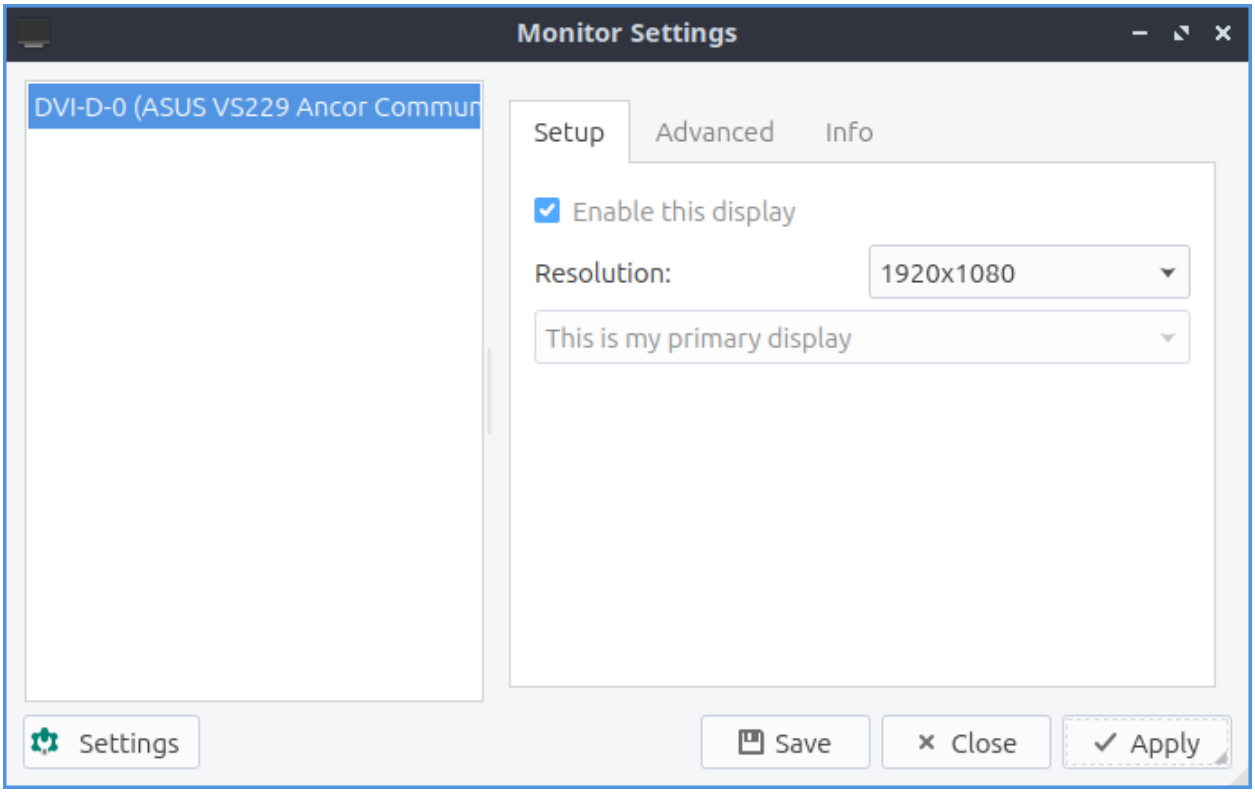
from the command line. The Locale icon looks like a blue flag with an A on it.

Chapter 3.2.10 Monitor Settings

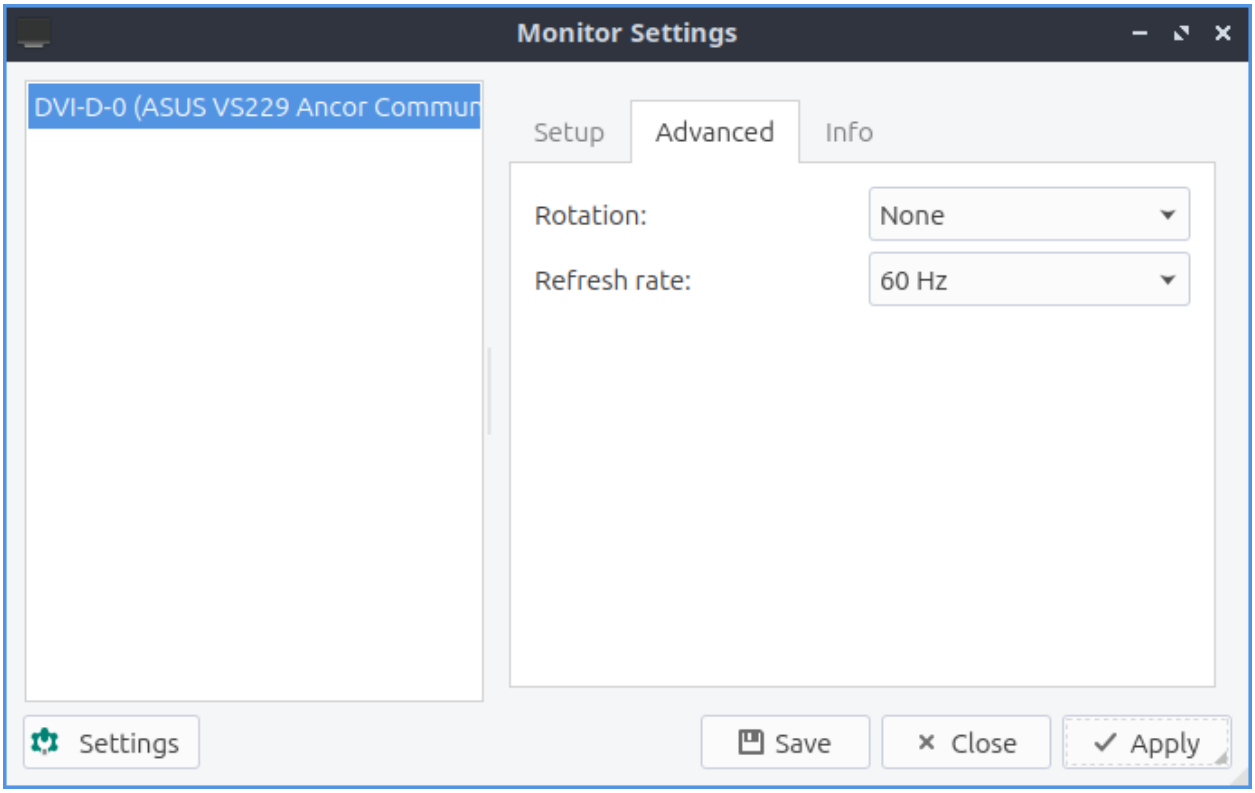
Monitor Settings controls your monitor(s) resolution, refresh rate, and saves monitor settings.

Usage

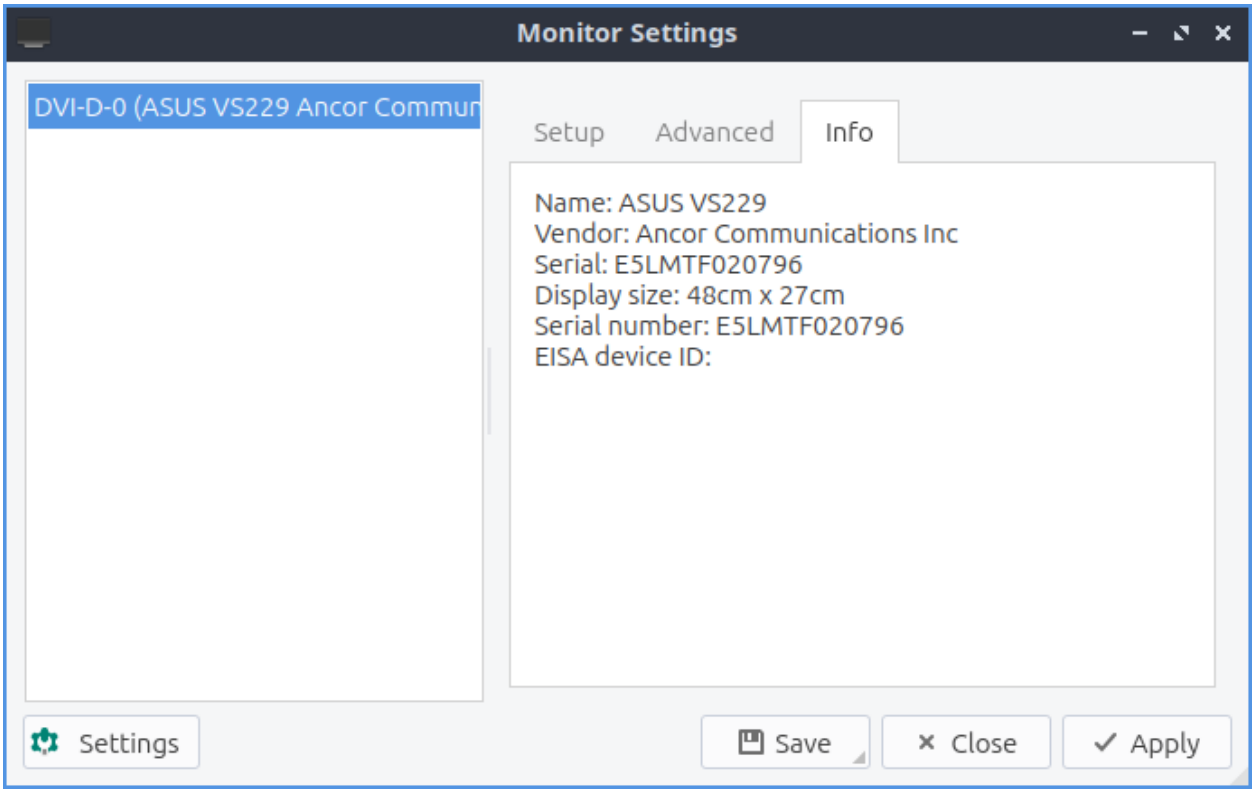
If you use a single monitor you can change your single monitor resolution on the right hand size and select your resolution. When you change your resolution you will be asked to confirm to make sure you don't make a choice that makes it harder to use your computer.



If you want to rotate a monitor on the Advanced tab from the menu labeled Rotation choose the way you want to rotate the monitor with inverted being upside down. Below you can also choose the refresh rate of monitor from the Refresh rate drop down menu to choose how fast your monitor refreshes.

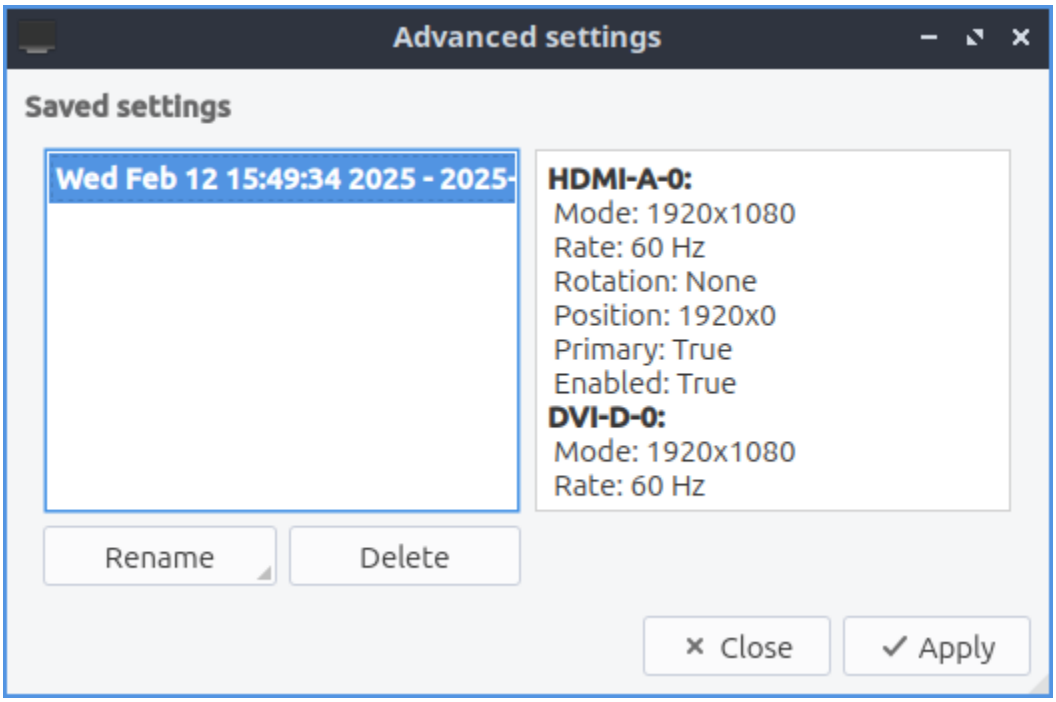


To display info on your monitor click the Info tab and read that info. The fields explained will be the Name of the monitor the serial number the size of the display and the serial number.



To save your monitor settings press the Save button and a pop up will show that your have your

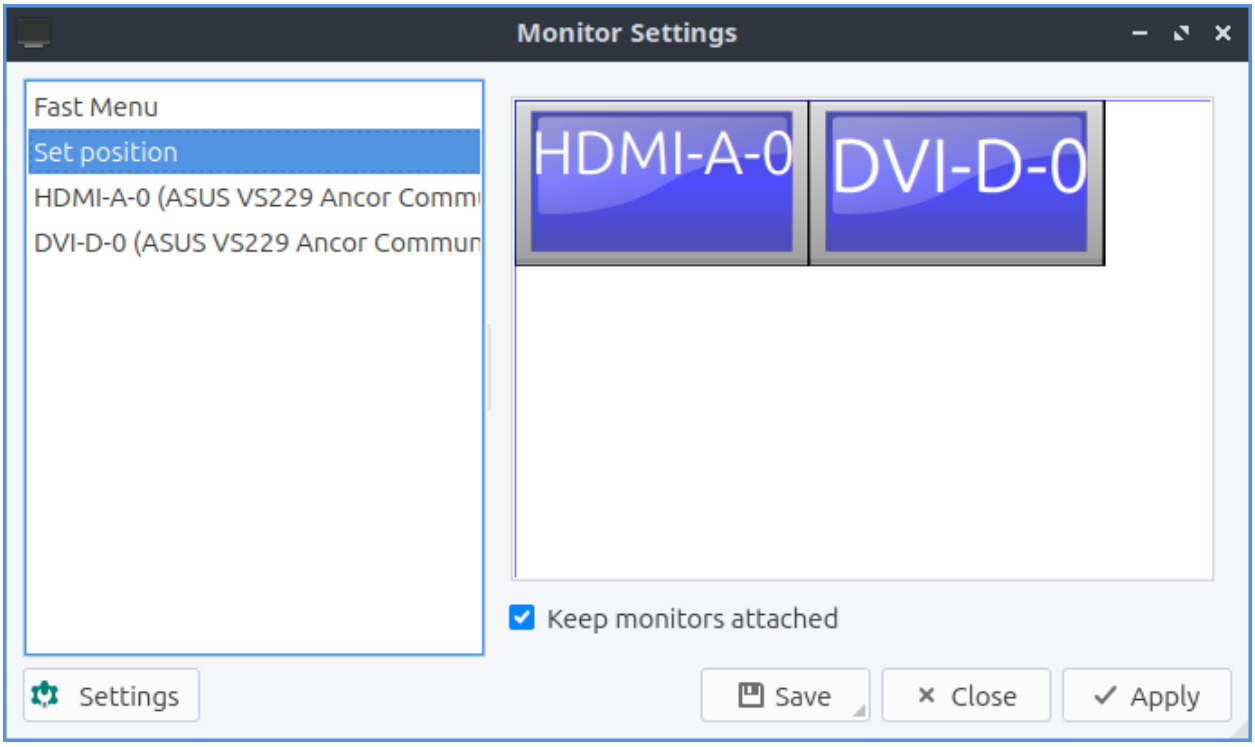
settings OK for you and press Yes. To view your saved settings press the Settings button. Your saved settings are by default saved with the time and date of when you saved the settings. If you want to apply your saved settings press the settings button with the gear around the light bulb. To see a summary of what your saved settings are left click on your settings and preview will show on the right hand column showing a summary. To choose your saved settings press the setting you want and the Apply button and your settings will be applied. To give your saved settings a meaningful name you can press the Rename button with a name for what you want and can remember what it is. If you want to delete these setting later press the Delete button.



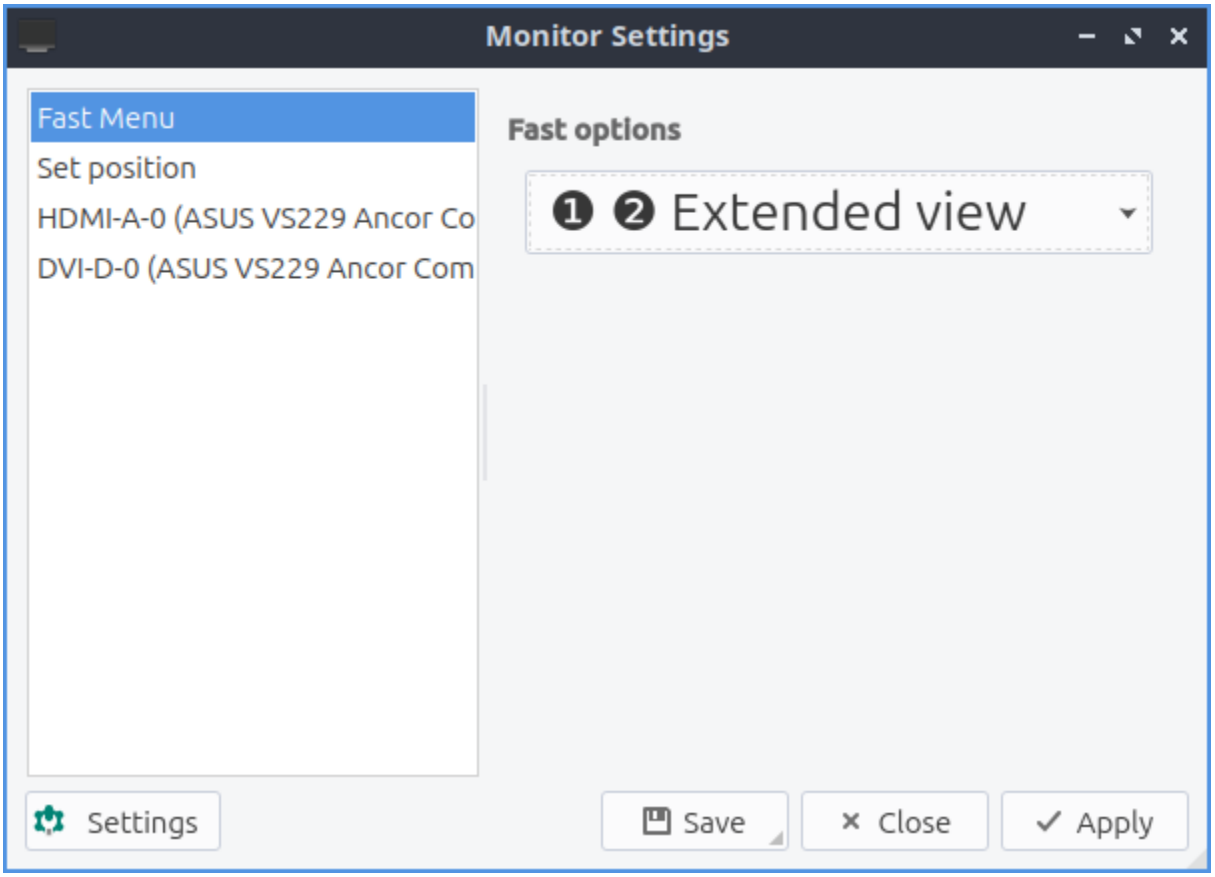
To close monitor settings press the Escape key or push the Close button.

Multimonitor

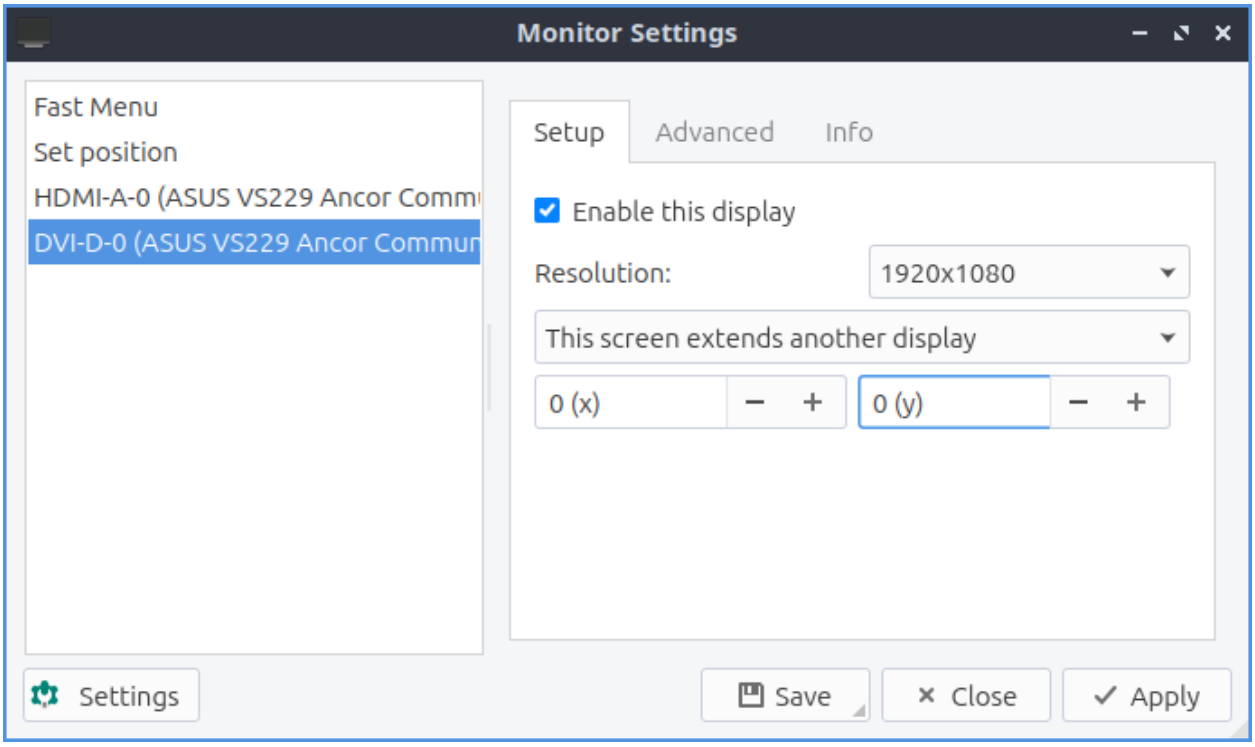
With multiple monitors you can in the Set position tab you can drag the different screen around drag the two monitors around. The checkbox for Keep monitor attached pulls the monitors pixels adjacent to each other. To see which screen is which you will be labeled by their name which commonly is which port it is connected to your computer with. If you want to have no annoying overlap between two monitors you can move a monitor beyond the edge of the current monitor and then it will snap back into perfect alignment.



The Fast Menu tab has ways to quickly turn on or off different monitors. The Fast options selection Extended view sets you to set extended showing different things on different monitors. Selecting a Unified view on the Fast Options shows the same thing on both screens. Only first shows up the first screen while Only second shows only the second.



The tabs towards the bottom are settings for each monitor. This also has the same settings for this monitor as you would have for a single monitor with a few additions. To turn each display on or off toggle the Enable this display checkbox. Towards the bottom there is a drop down menu that and select This is my primary Display to make this your main monitor. The primary display will also be the display that desktop icons appear on by default first. If you select This screen extends another display this monitor will be a secondary monitor that shows something different than what the primary display shows. After selecting to extending another display two boxes will show up for where to place the second monitor.The box that shows a number and says (x) is a box that lets you show how many pixels to move this display horizontally. The box that shows a number and says (y) is a box that shows how many pixels to move the display vertically.



Version

Lubuntu ships with version 2.4.0 of Monitor Settings.

How to Launch

To launch Monitor Settings from the menu LXQt settings ▸ Monitor. From LXQt Configuration Center press the button for monitor settings that looks like a desktop monitor or run

```
lxqt-config-monitor
```

from the command line.

Chapter 3.2.11 Power Management

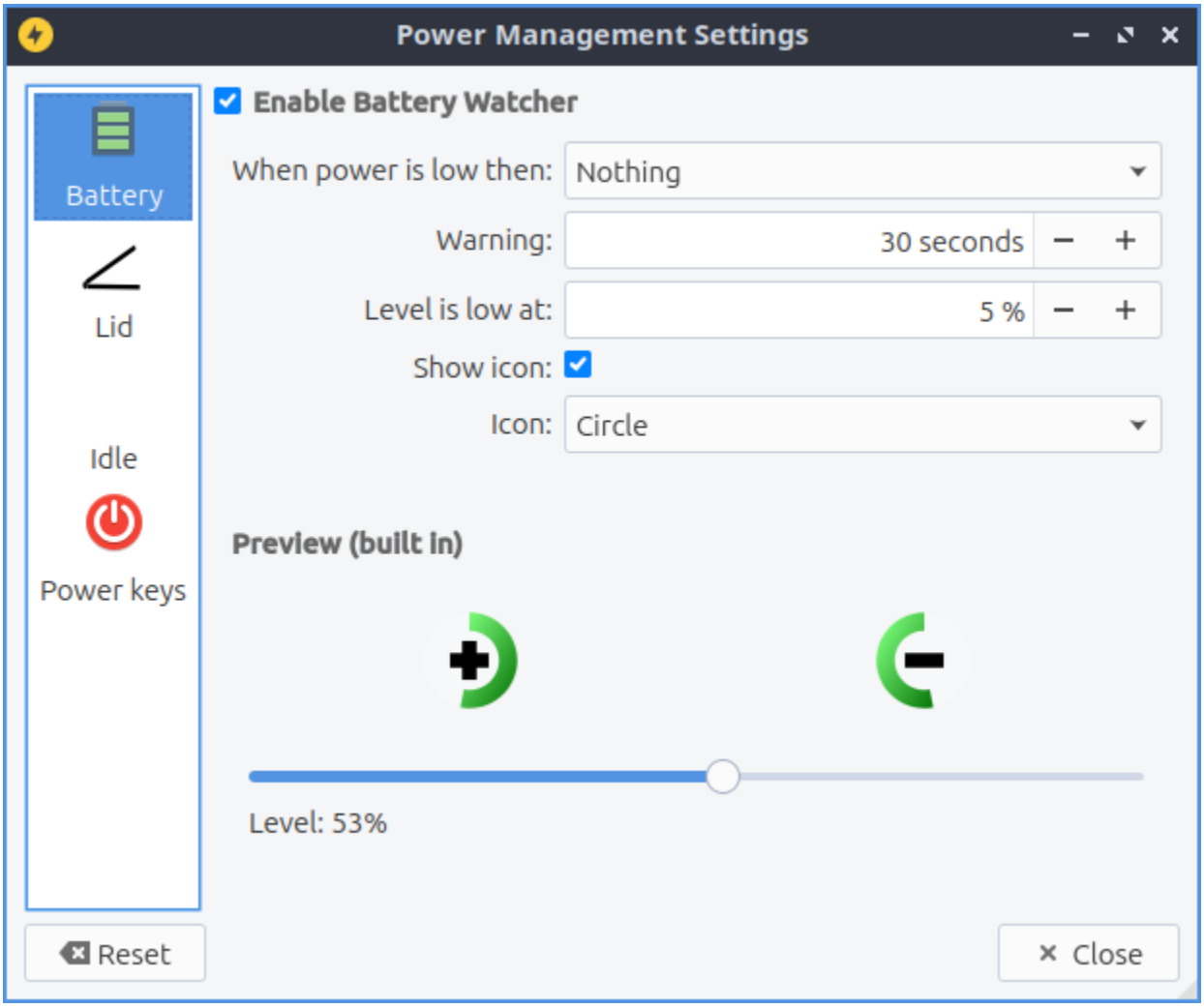
Power Management manages low charge in your laptop battery, actions for laptop lid being closed, and what to do when your computer is idle for long periods.

Usage

LXQt power management watches your battery, laptop lid, idleness, and what happens when you press power or sleep buttons. Each of the checkboxes for battery, laptop lid, or idleness watchers are checkboxes to enable or disable each.

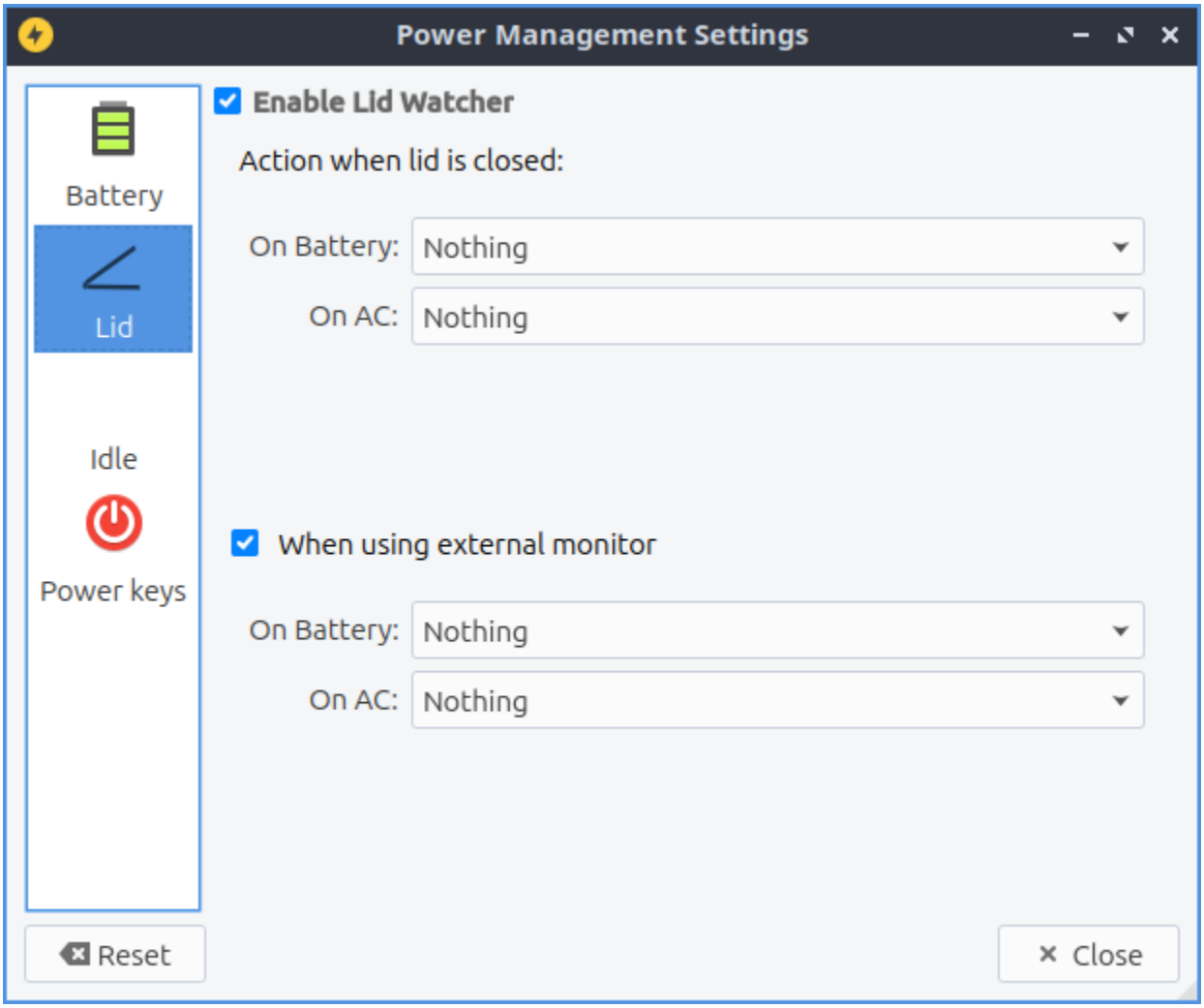
The Battery tab has settings for monitoring your battery power level and some settings. On a laptop power management should show a + with a ring around it representing your current battery charge on your laptop when it is charging with a full green circle meaning you are fully charged in the system tray. If your battery is discharging you will see a - symbol at the center of the circle. If you hover the mouse cursor over this it will show the percent of charge

as a percentage and whether the battery is charging or discharging. When your battery is fully charged it will turn into a black circle.



The field Enable Battery Watcher Watches the battery on your system. The field When Power is low then: lets you choose what to do when your batter is low. The Warning field provides a duration to show a warning for low power. To change the level for low level of battery change the Level is low at field. To toggle showing and icon check/uncheck the Show icon checkbox. To change the icon used for battery change the Icon drop down. If you are using a virtual machine or desktop without a battery and get annoyed that notification saying no battery at first login simply uncheck the Enable Battery Watcher checkbox. To see what your battery will look like it is under the text Preview text in the bottom of the screen. To show what the battery would look like at different charge levels change the Level slider.

The Lid tab manages settings for when you close your laptop lid. The lid watcher lets you choose to suspend or shut off your computer when the lid is closed on battery or on AC. The checkbox for Enable Lid Watcher enables actions to be taken when the laptop lid is closed and of course uncheck means it won't take any action. The On Battery field changes what action to take when your laptop is powered by the battery. The On AC is changes what action to take when your laptop lid is closed and it is plugged into power.

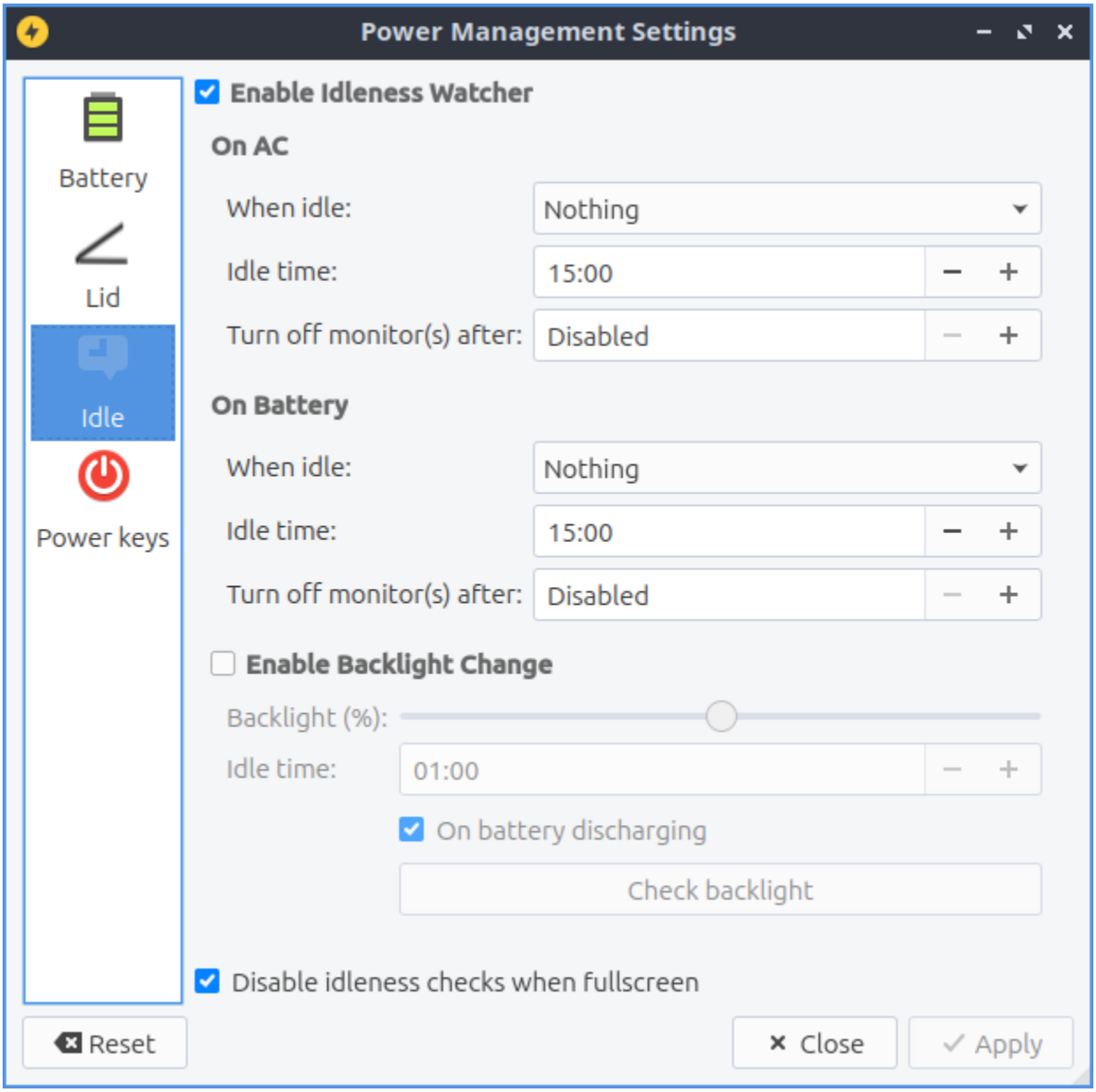


The Checkbox When using external monitor Allows you to have different settings when your laptop for closing the lid if you are plugged in to an external monitor. The fields On Battery and On AC function as above just different settings when plugged into an external monitor.

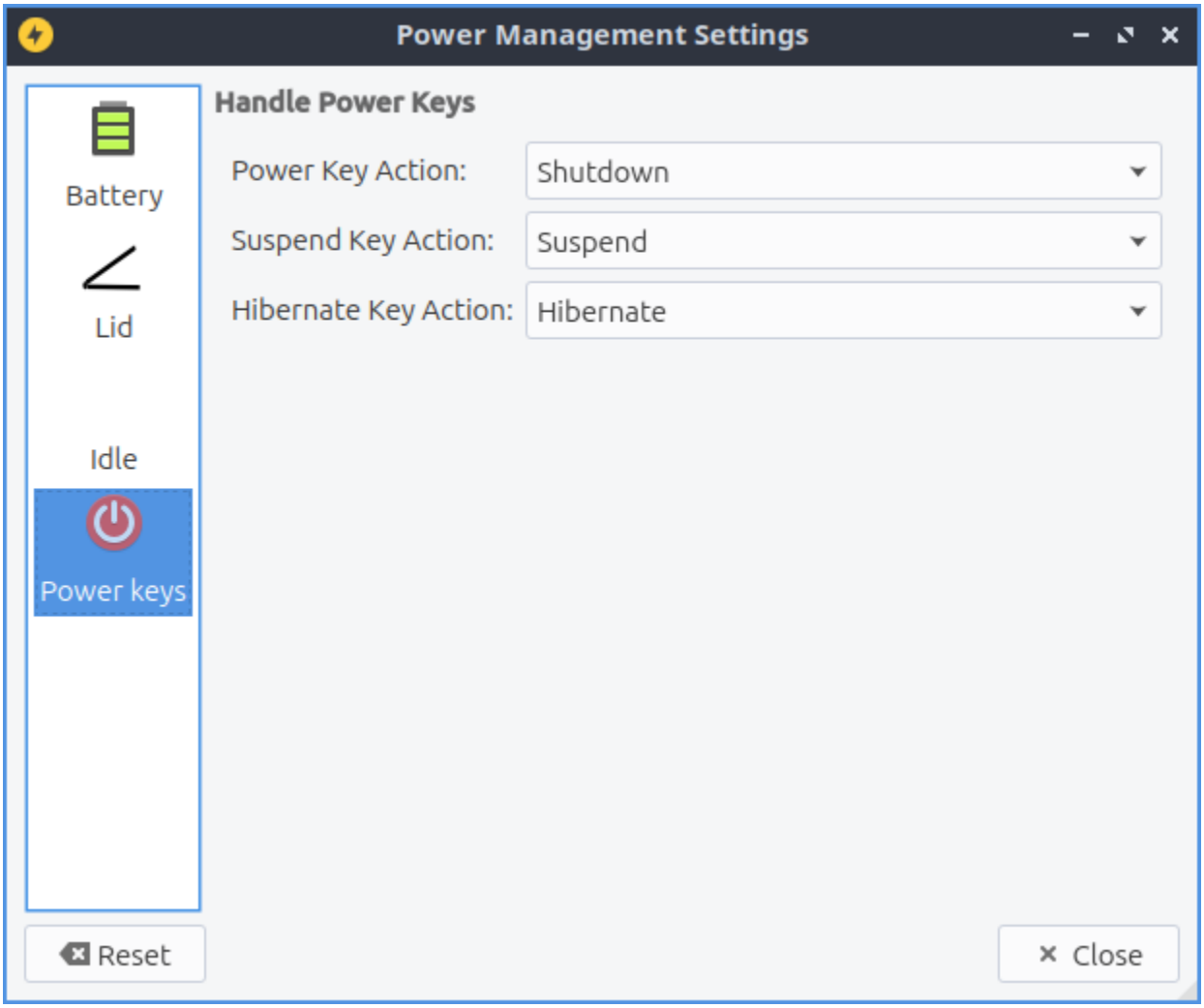
The Idle tab manages what happens when you walk away from your keyboard. To toggle Power Management being active to see if you are not at your computer check the Enable idleness watcher checkbox. The On AC section changes how to handle idleness when your computer is plugged in. The When idle menu lets select whether you want to do Nothing, Lock Screen, Suspend, hibernate, Shutdown, or Turn Off Monitor(s) when your computer is plugged in. To change how long idle before doing what you selected on When idle use the Idle time menu. To choose an amount of idle time to turn your monitor select a time in Turn off monitor(s) after field. The On Battery Changes the settings for when your computer is on a battery. The When idle field lets you choose what to do with your computer when you leave it idle on battery. The Idle time field lets you change how long idle to wait before taking the action in When idle. To choose how long to turn of your monitors after being idle use the Turn off monitor(s) after field.

To enable changing the backlight brightness when your computer is idle check the Enable Backlight Change checkbox. To change the bright the screen becomes when idle Backlight(%) slider as lowering the brightness will use less power. To change how long to reduce your brightness on your laptop change the Idle time field. To have the screen reduce brightness even when plugged in uncheck the On battery discharging checkbox. To disable changing the

screen when you have a window fullscreen check the Disable idleness checks when fullscreen checkbox.



To change what buttons do in regards to power use the Power keys tab. To change what the power button does change Power Key Action to what you want to happen when you press the power button on your computer. To change what the suspend button does use the Suspend Key Action menu. To change what the hibernate button does use the Hibernate Key Action menu.



To reset your changes press the Reset button. To close Power Management press the `Escape` key or press the Close button.

Version

Lubuntu ships with version 2.3.0 of Power Management.

How to Launch

To launch Power Management from the menu LXQt settings ▸ Power Management. The Power Management icon looks like a yellow circle with a black lightning bolt. You can also run

```
lxqt-config-powermanagement
```

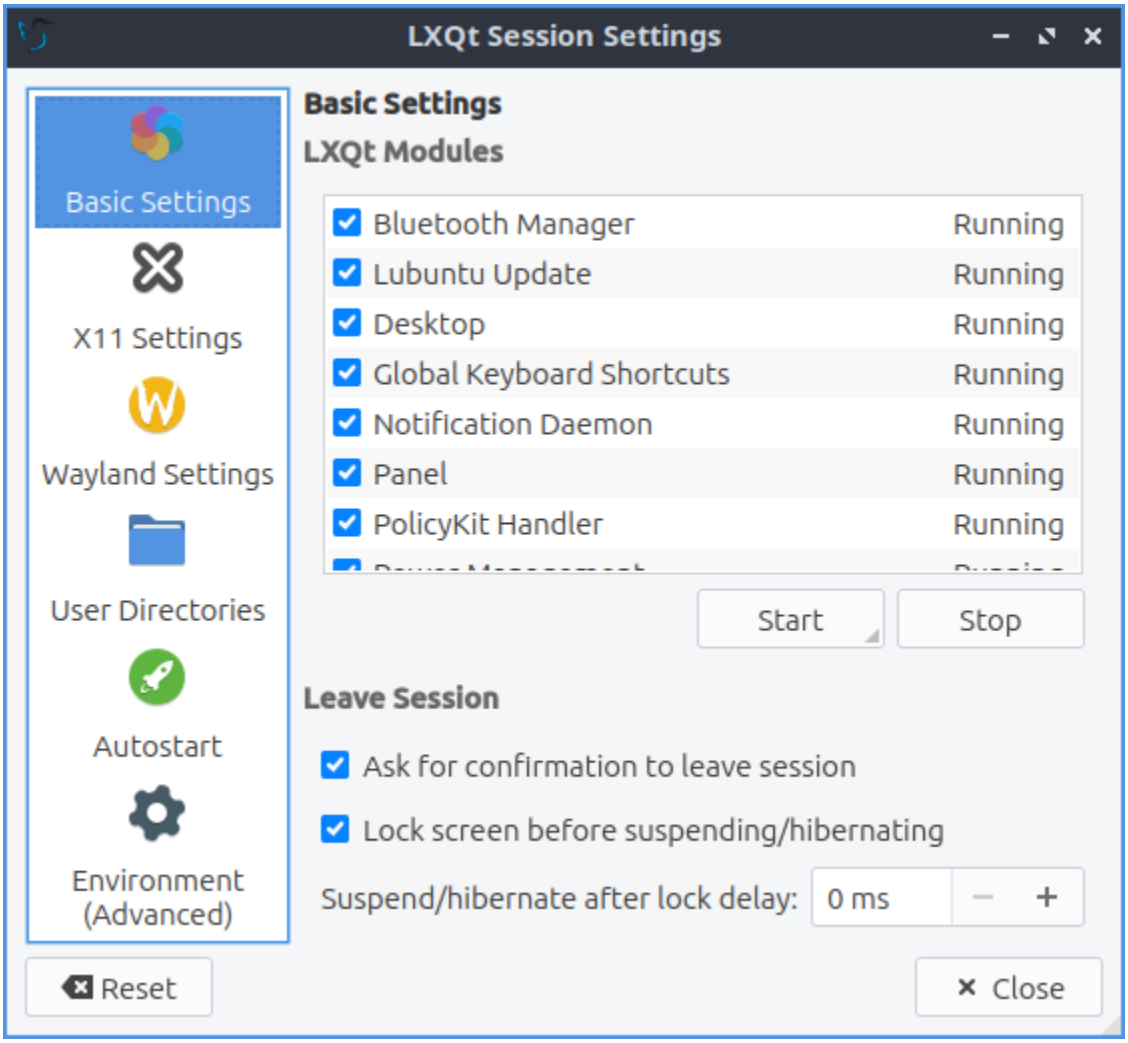
from the command line. You can launch Power Management from the panel by right clicking on the battery icon and select Configure.

Chapter 3.2.12 Session Settings

Session Settings is the way to change what happens when log into Lubuntu. Here you manage default applications and services at startup.

Usage

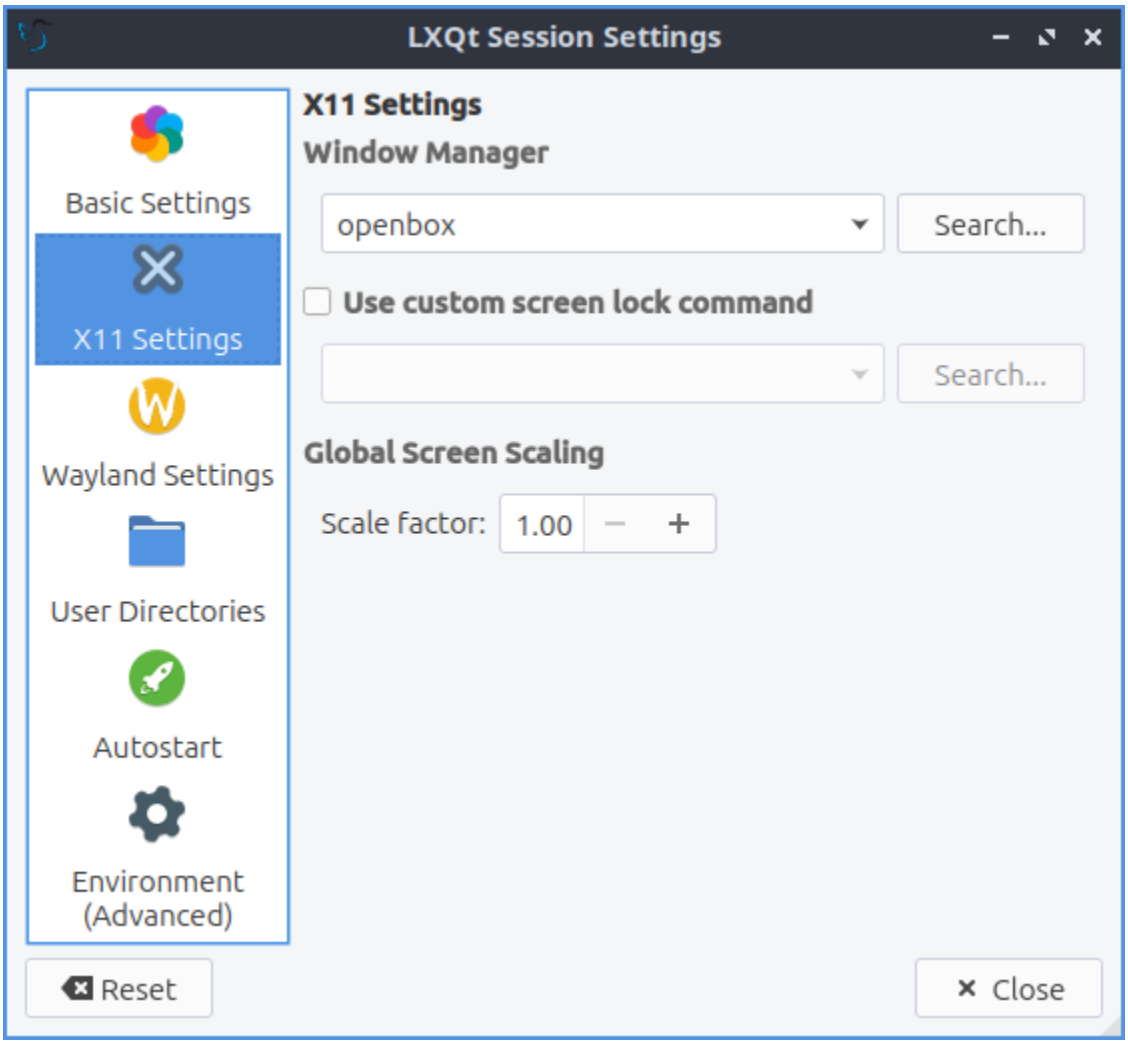
The Basic Settings tab lets you change with a window manager and LXQt modules. The LXQt Modules heading lists the different part of LXQt if you find you do not want part of LXQt active you can enable or disable them here. To stop an LXQt Module left click on the module name press the Stop button. To disable compositing you can press the Stop button after selecting Picom(X Compositor). To start a stopped LXQt Modules press the Start button. If you want to restart part of LXQt without using the command line first press the Stop button and then the Start button.



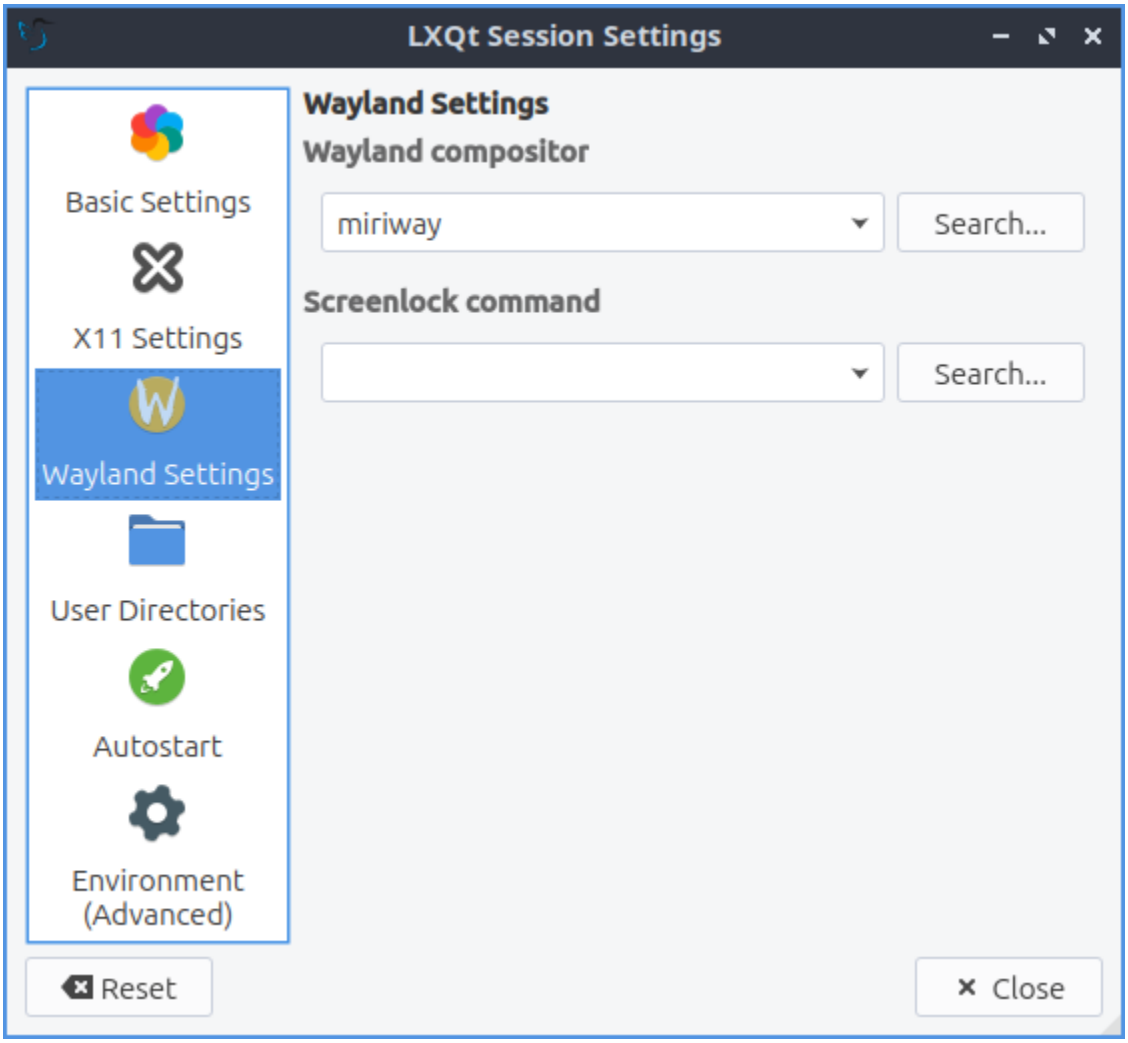
The checkbox for Ask for confirmation to leave session gives you a simple yes no dialog to make sure you really want to leave so you do not lose your work uncheck it if you do not want this and find this dialog annoying. The Lock screen before suspending/hibernating checkbox locks your screen before suspending or hibernating. To change how long to wait after locking the screen to delay or suspend change the Suspend/hibernate after lock delay field.

To manage settings related to X11 use the X11 settings tab. To change the window manager

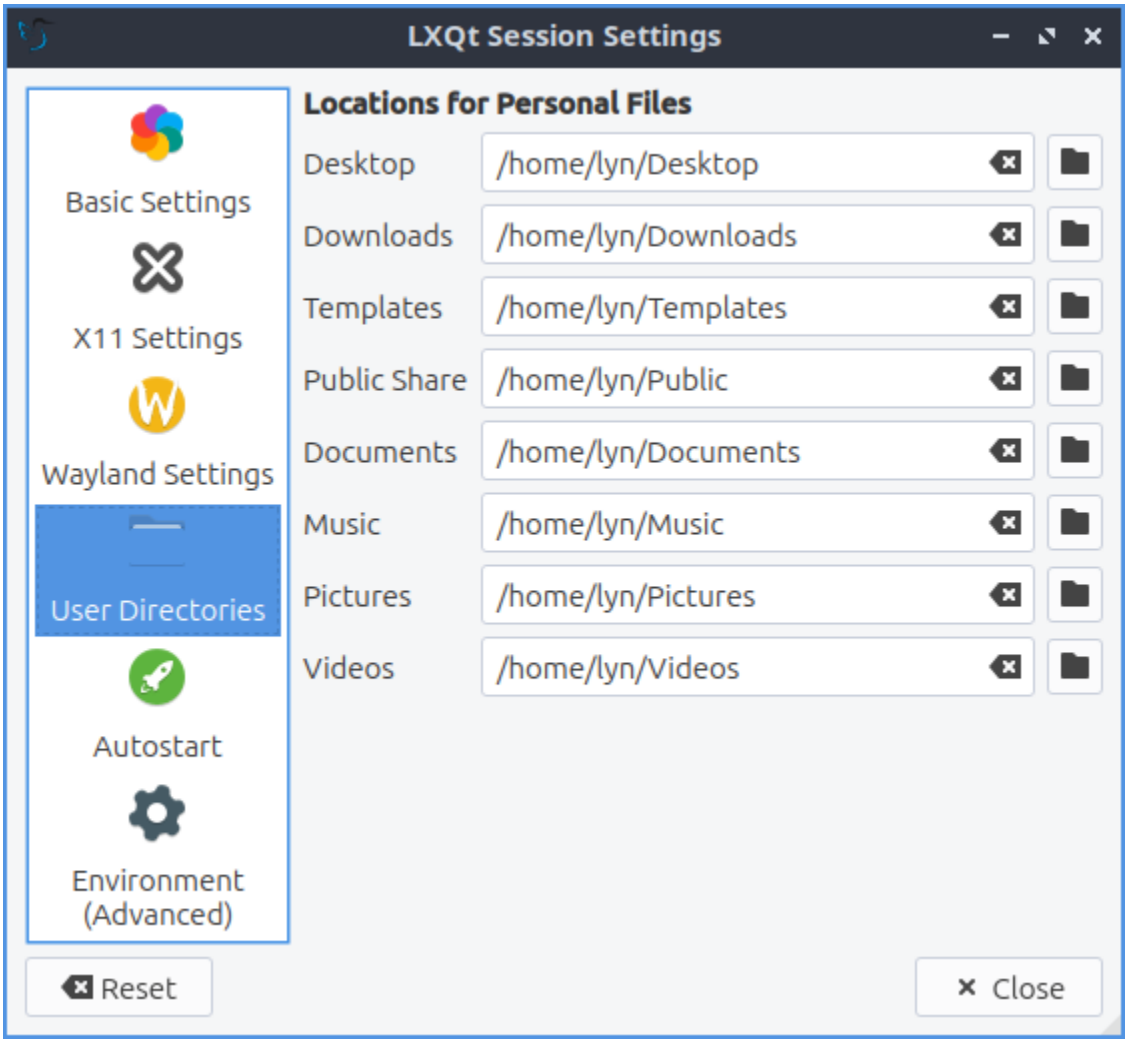
used by LXQt, on the basic settings tab use the Window Manager drop down menu. Choose from the drop down list or press Search if the drop down list does not contain your new window manager. To set a custom command for locking your screen check the Use custom screen lock command checkbox and then type the command in the box or left click the Search button. To make everything on the screen appear bigger increase the Scale factor field.



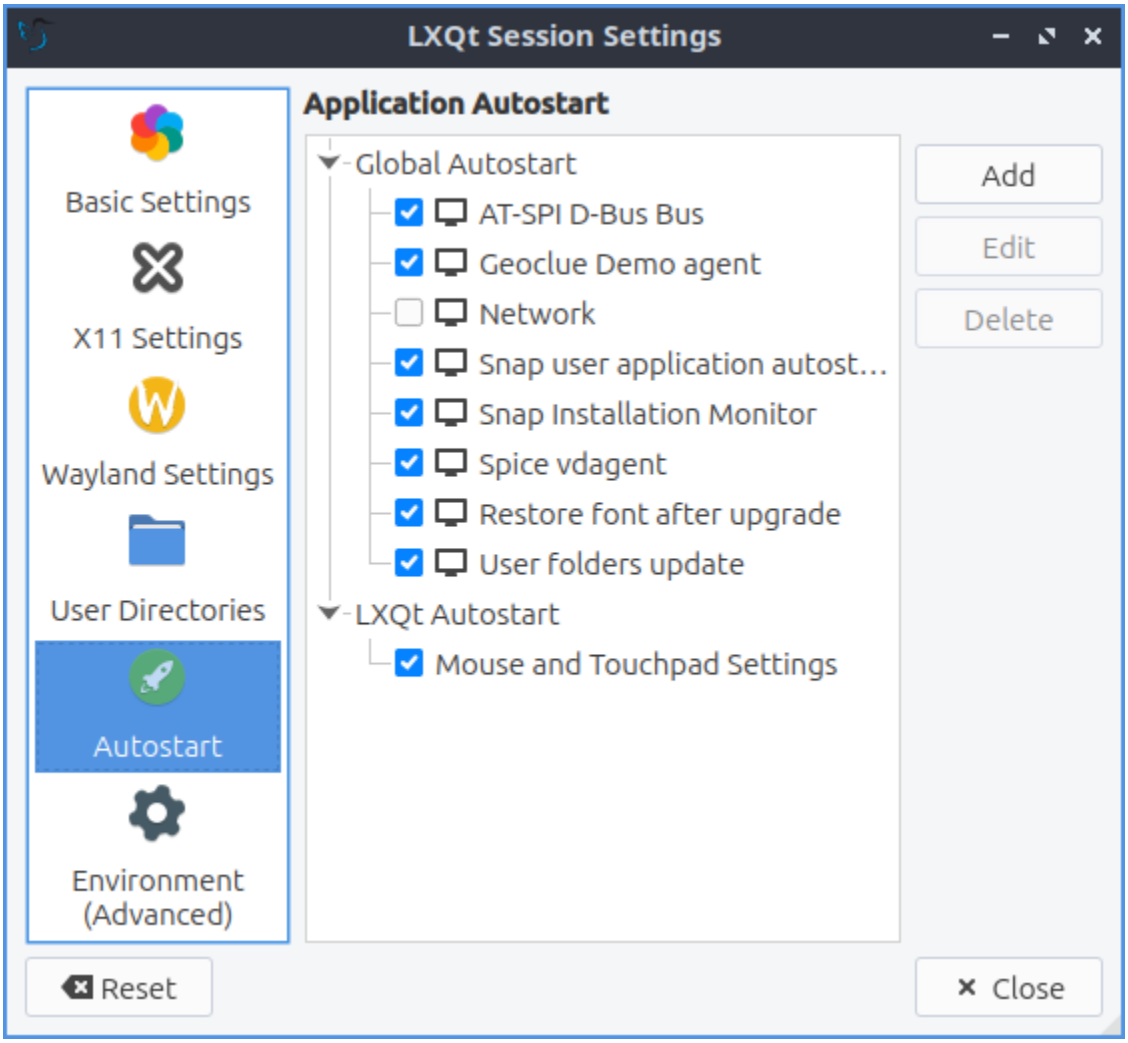
To change your session settings when using a wayland session use the Wayland Settings tab. To choose your wayland compositor use the wayand compositor field. To search for a wayland compistor press the Search button to the right. To choose how to lock your screen on wayland use the Screenlock command field. To search for a wayland screenlocker click on the Search button to the right.



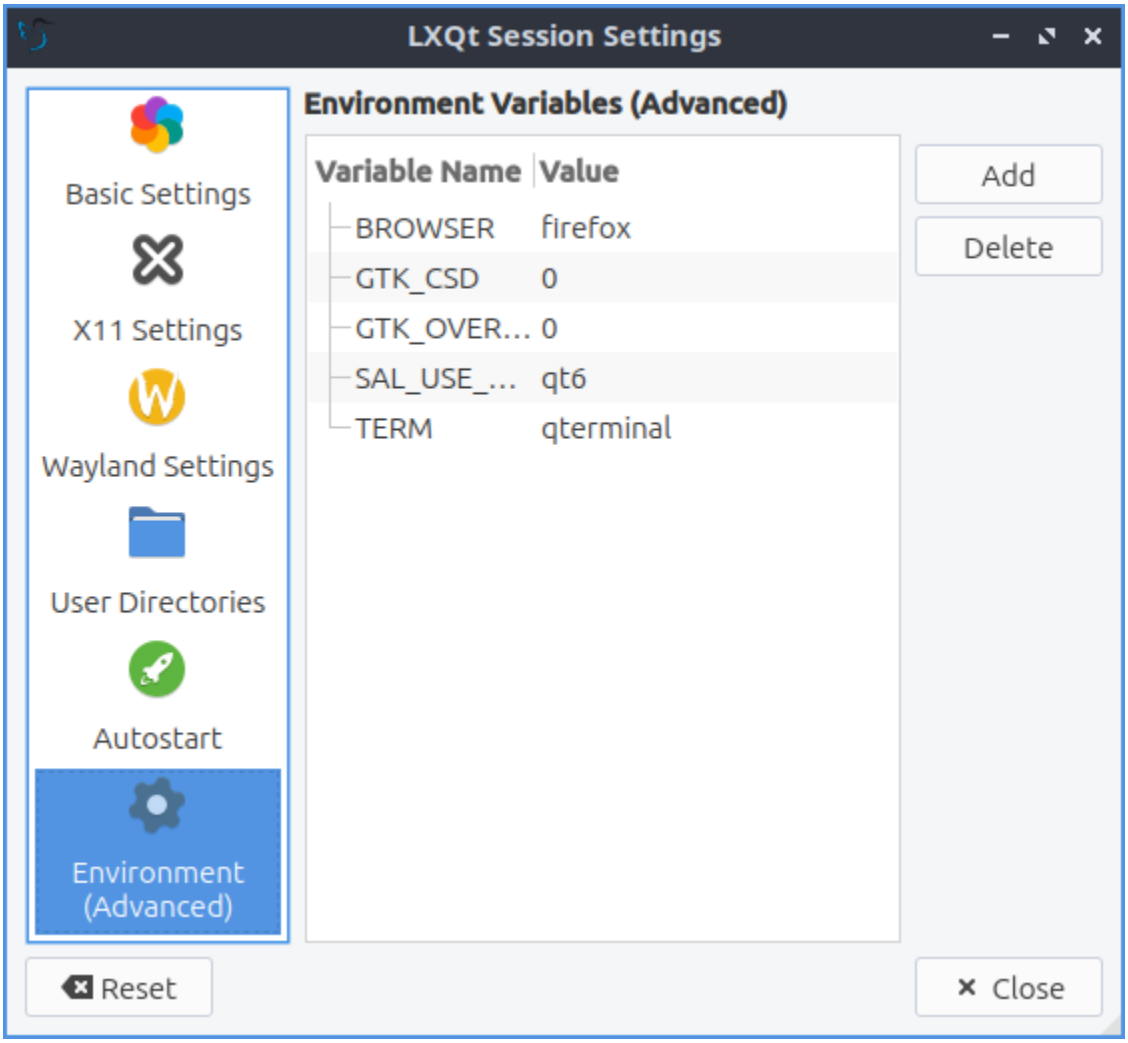
To change where LXQt saves the default user directories left click on the User Directories tab. To view what folder to change the default location for use the Desktop, Downloads, Templates, Public Share, Documents, Music, Pictures, or Videos field to change that default folder for that. To bring up a dialog to change your folder press the folder button. In the center shows the current path to your documents. To go back to the default folder press the leftward pointing arrow with an x in it.



The Autostart tab has settings for what to autostart. The autostart applications lets you choose which applications to autostart like managers for print queues. All of these are check-boxes to start various programs. You can start a program at startup by adding it here. Click the Add button, give the process a name e.g. “Terminal drop down” and type in the Name and type appropriate terminal command e.g. “qterminal -d” where it says Command. If you are say autostarting a clipboard manager or something else that needs to be in a system tray check the Wait for system tray checkbox so the application does not autostart before the system tray and does not end up running. To change a keyboard shortcut press the Edit button. To stop a program from running automatically but not to delete the entry uncheck the checkbox in front of that entry. To remove a setting for autostart first uncheck the checkbox to disable autostarting that program then left click on the autostart press the Delete button.



The tab for Environment (Advanced) has many effects for you environment variables for your session. The Variable Name provides the name of the environment variable. To change the value of a variable double click on the value under the Value column. To add a new environment variable press the Add button. Then at the bottom a dotted line will appear and double click to enter the Variable Name and the Value for the variable. To delete an environment variable press the Delete button. To change your cursor size change the XCURSOR_SIZE variable.



If you want to undo changes you have done press the Reset button. To close session settings press the `Escape` key or press the Close button.

Version

Lubuntu ships with version 2.4.0 of Session Settings.

How to Launch

To launch Session Settings from the menu LXQt Settings ▸ Session Settings. The icon for Session Settings looks like two interlocked gears. To run Session Settings from the command line run

```
lxqt-config-session
```

Chapter 3.2.13 Shortcut Keys

Shortcut Keys is the program that manages the global hotkeys or keyboard shortcuts for Lubuntu.

Note

The keyboard shortcuts are also managed by Openbox. Refer to Appendix F for more detail.

Usage

You can **Modify** a current keyboard shortcut by selecting the shortcut from the keyboard table, clicking the Modify button, then clicking on the shortcut button. A countdown will begin during which you should push the **keyboard shortcut combination** you want. To serach for a specific shortcut to change type in the Search bar at the top.

You can **Remove** a keyboard shortcut by selecting the shortcut from the keyboard table, and clicking the Remove button. To swap to shortcut keys you can select two shortcuts with `Control+ Left Click` then left click on the Swap button.

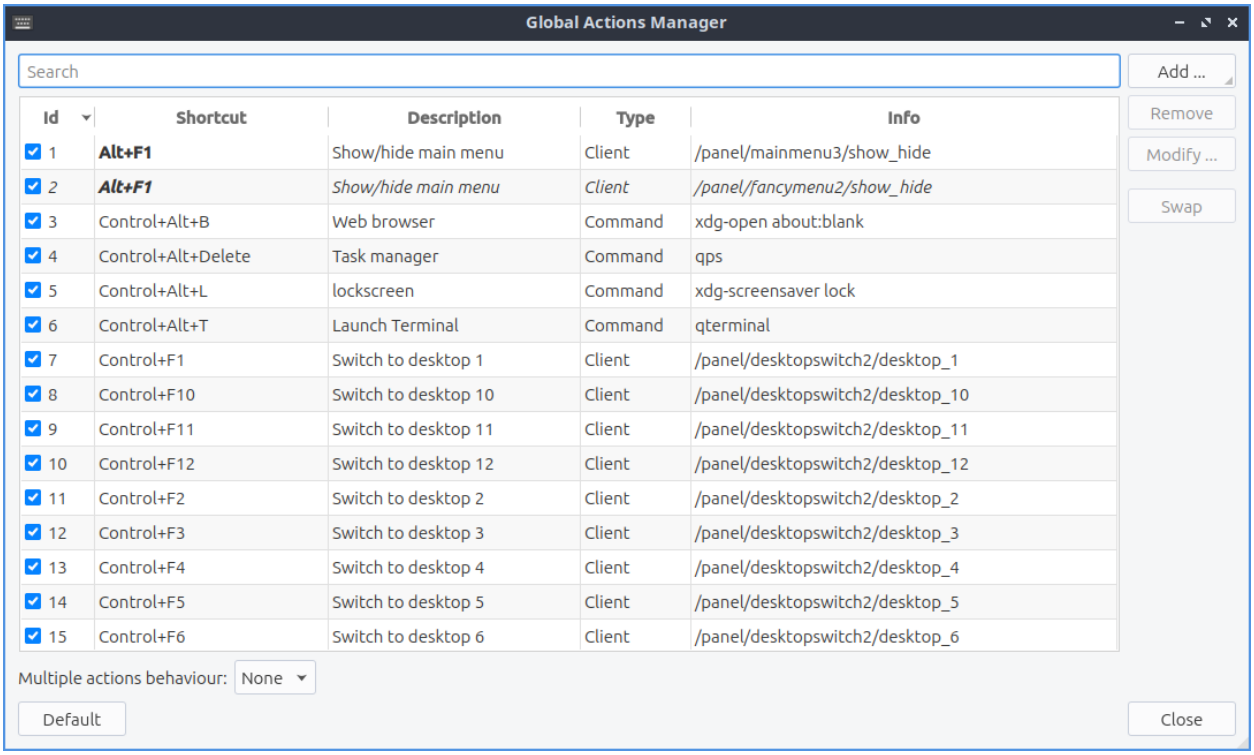
You can **Add** a new keyboard shortcut clicking the Add button. The shortcut field will be blank, click the Shortcut button to start the countdown, then press the **keyboard shortcut combination** you want to assign. Write a short description of what the keyboard shortcut does, for example “start drop down terminal”, or “increases screen brightness” in the Description field so you know what this shortcut does in the future. To make this execute a terminal command select the Command radio button and enter the command. To restore keyboard shortcuts to default press the Default button.

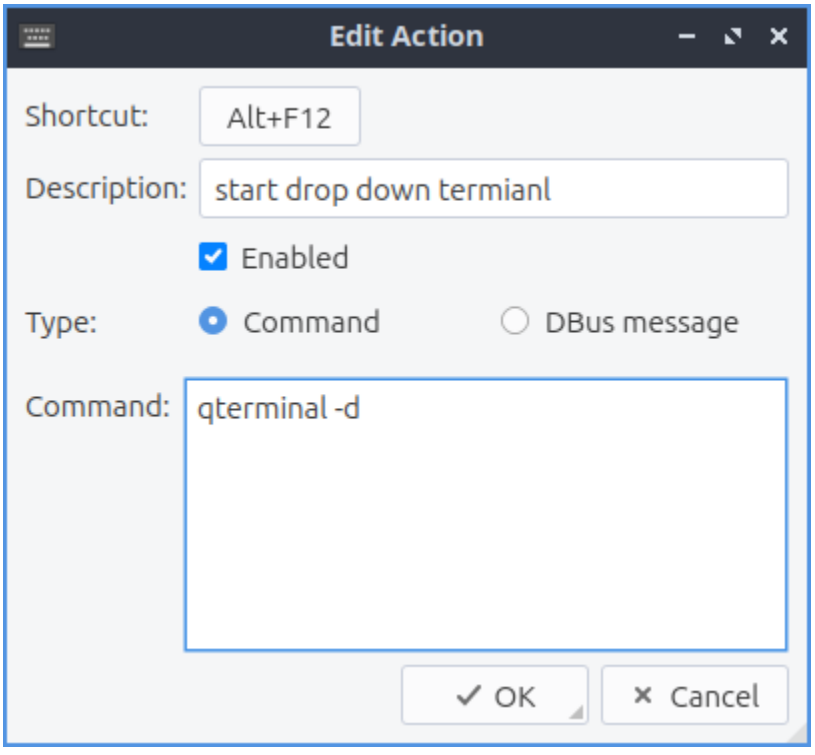
To see what previous keyboard shortcuts use their are several columns to see what keyboard shortcuts do. To see what number of each keyboard shortcut look at the ID column. To see what keyboard to press look at the Shortcut column. To see what the shortcut does look at the Description column. To see what type of keyboard shortcut view the Type column. To see what command or what the shortcut will do view the Info column.

The Multiple actions behavior field changes what to do if you have multiple shortcuts bound to the same key. If you had both qterminal and qps launch with `Control + ALT + Del` Selecting First on Multiple actions behavior will launch qterminal. Selecting Last on Multiple actions behavior will launch qps. To launch both qps and qterminal select All from Multiple actions behavior.To have neither qps or qterminal open select None from Multiple actions behavior.

To close Shortcut Keys press the `Escape` key or press the Close button.

Screenshots





Version

Lubuntu ships with version 2.4.0 of Shortcut Keys.

How to Launch

To launch Shortcut Keys from the menu LXQt settings ▸ Shortcut Keys. The icon for Shortcut Keys button looks like a keyboard. To launch Shortcut Keys from the command line run

```
lxqt-config-globalkeyshortcuts
```

Chapter 3.2.14 Users and Groups

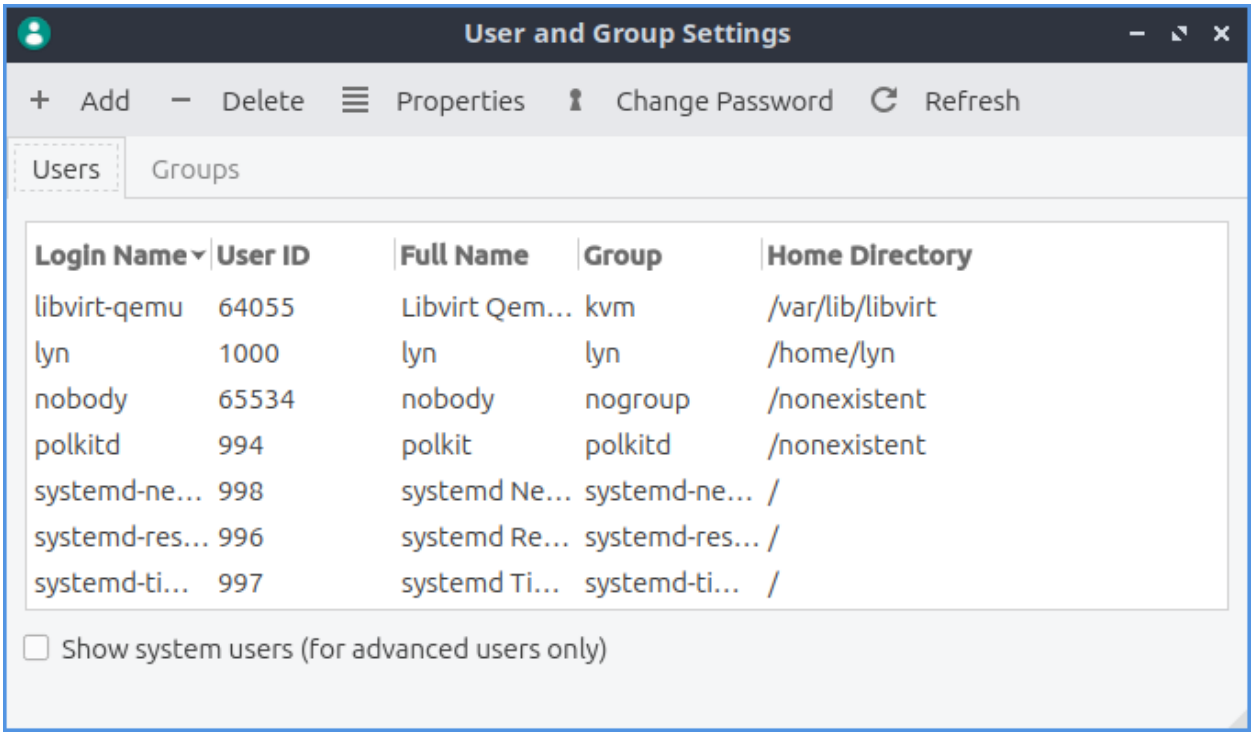
Users and Groups lets you manage user and group settings on your system.

Usage

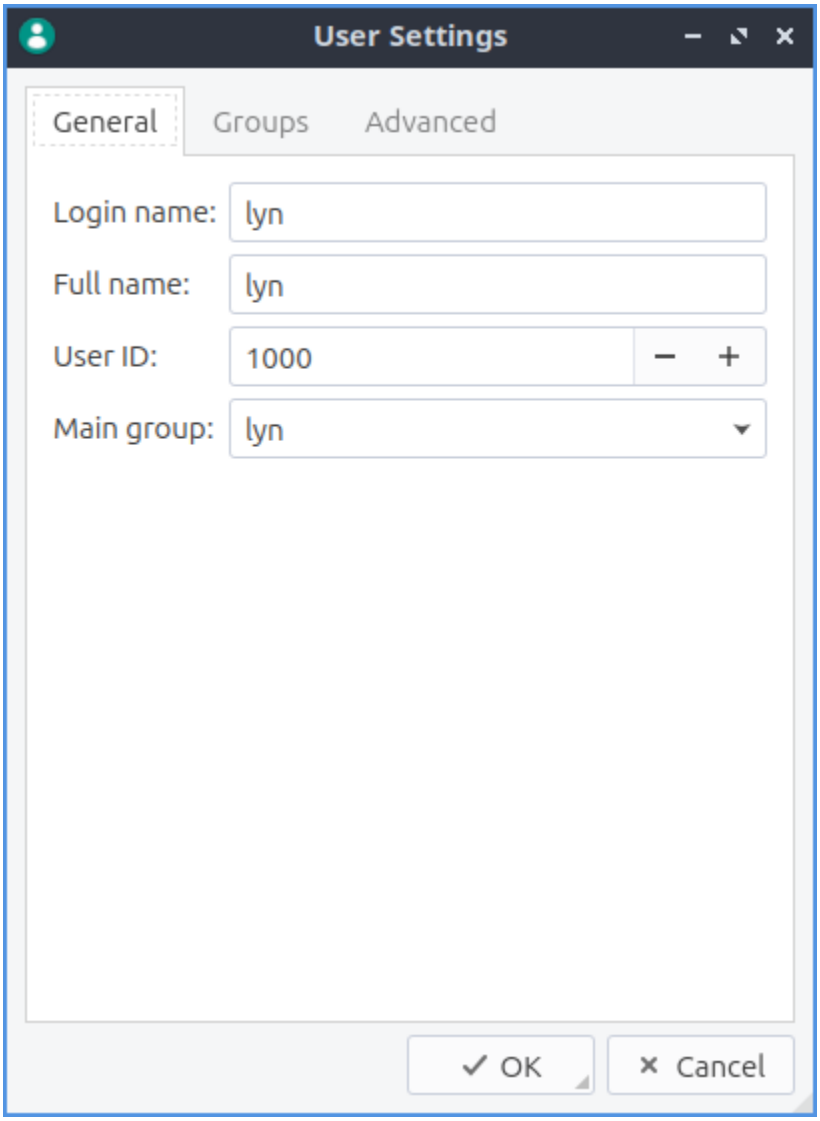
The Users tab lets you manage Users. To create a new user account press the Add button. You will need to select the groups you want the user to be in under the Groups tab. Once the user information and groups are set press the OK button. Then you will be prompted to enter an administrative password. Next you will be prompted to enter the new password for the user. To change the users permission click account type and enter your password and select desktop user to not give permission to change the system or admin to change system settings.

To change a user's password select the user in the list then press the Change Password button you will be prompted to enter the new password. Then you will be prompted to enter an administrative password to authenticate that you have permission to do this. To reload the info on users and groups press the Refresh button.

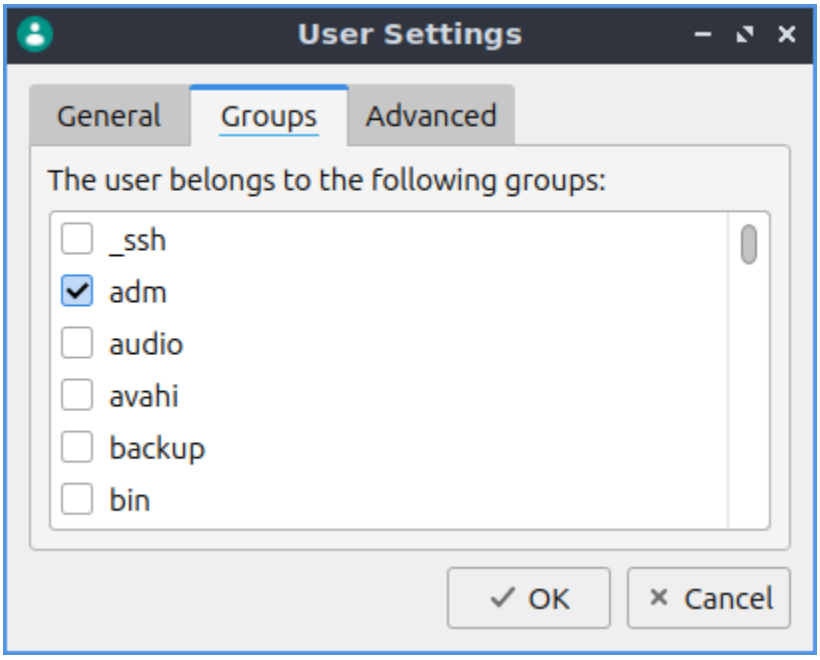
To see what name a user logs in with read the Login Name column. To see what each user id is read the USER ID column. To see the full name for a user read the Full Name column. To see what group the user primally belongs to read the Group column. To see the users home director read the Home Directory column. To show system users check the Show system users checkbox.



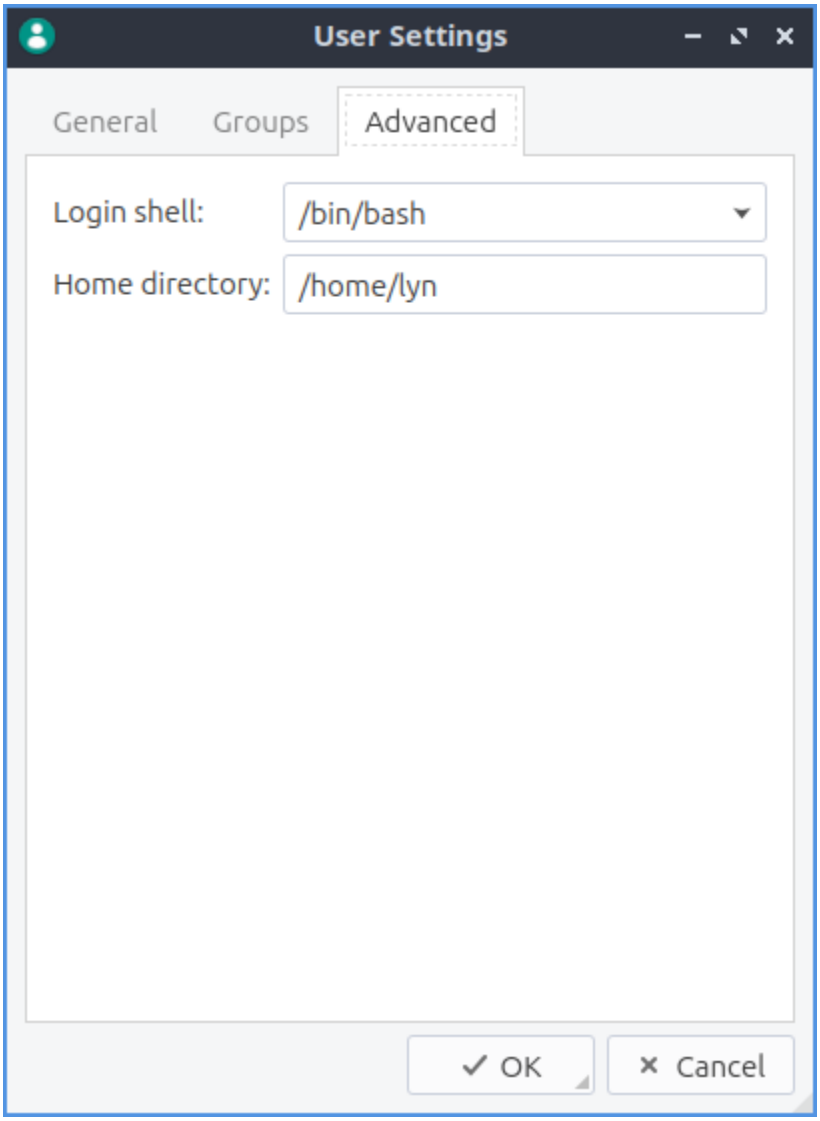
To view an info on a particular user press the Properties or double click on the users name to bring up a dialog box or the accomplish the same thing by double clicking on the username. You can view the Login Name will show you the login name for the user and can be edited if you type in the box. The field User ID is the numerical internal id of your user. The field Main Group is the main group that is default group for files access to.



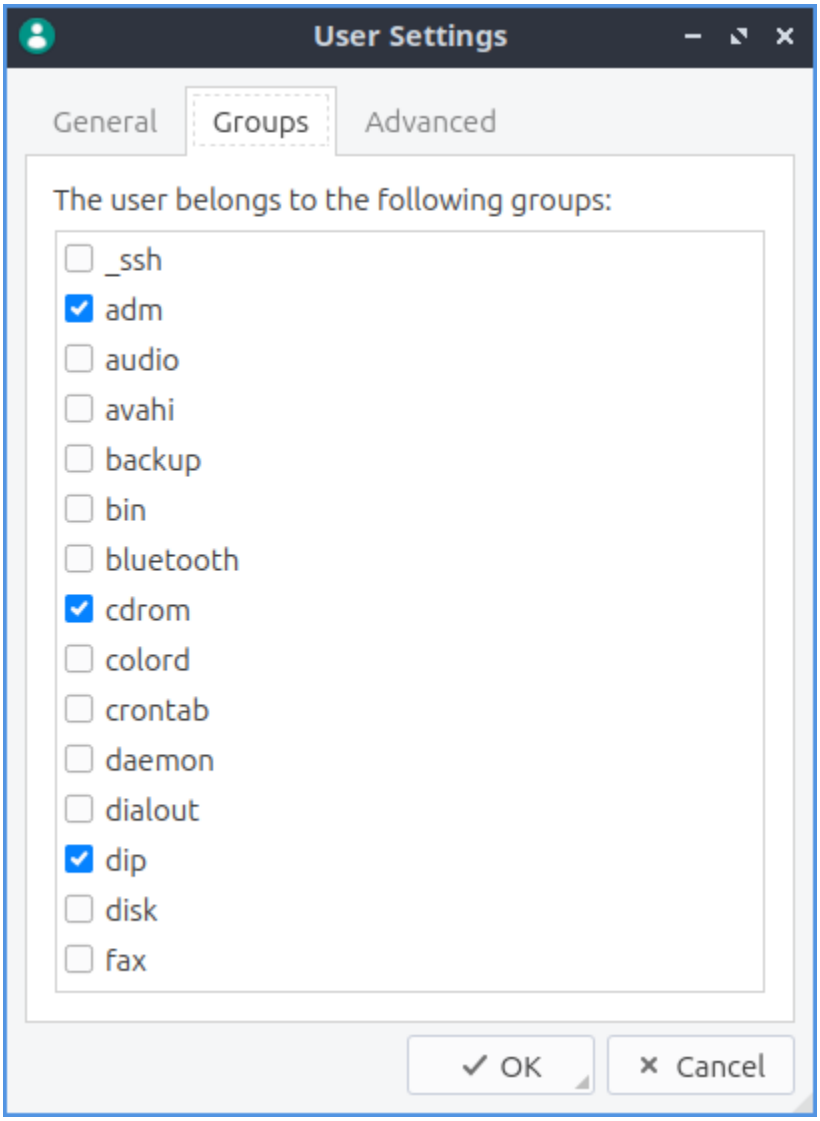
The tab Groups under properties has checkboxes for each group you are in or which checkbox or each group you are not in. To add or remove a user from a group check or uncheck the checkbox for the group you want to add or remove a user from. To view what numeric group id each group has is in the Group ID field.



The Advanced tab in the properties menu has settings with a login shells and where your home directory is. To change which shell you use when you login via ssh or directly to a console change the Login Shell drop down menu. To change where your home directory is use the Home directory field for your folder.



The Groups tabs lets you see info on groups and change properties. The Name field shows the name of the group. The Group ID shows the numeric group id of the group in the name field. The Members show the members of the current group.



Warning

Changing user and group permissions without knowing what you are doing could break your system.

Version

Lubuntu ships with version 2.4.0 of Users and Groups.

How to Launch

To launch Users and Groups from the menu LXQt settings ▸ Users and Groups. The icon for Users and Groups is a teal circle with nondescript picture of a person in the foreground. Or you can run

```
lxqt-admin-user
```

from the command line.

2.3.3 Chapter 3.3 Preferences

This chapter sets up the many preferences included within Lubuntu for themeing and customization not included in the LXQt settings chapter.

Chapter 3.3.1 Alternatives Configurator

Alternatives Configuartor configures your alternative programs like your default web browser and more applications if you have multiple programs installed.

Usage

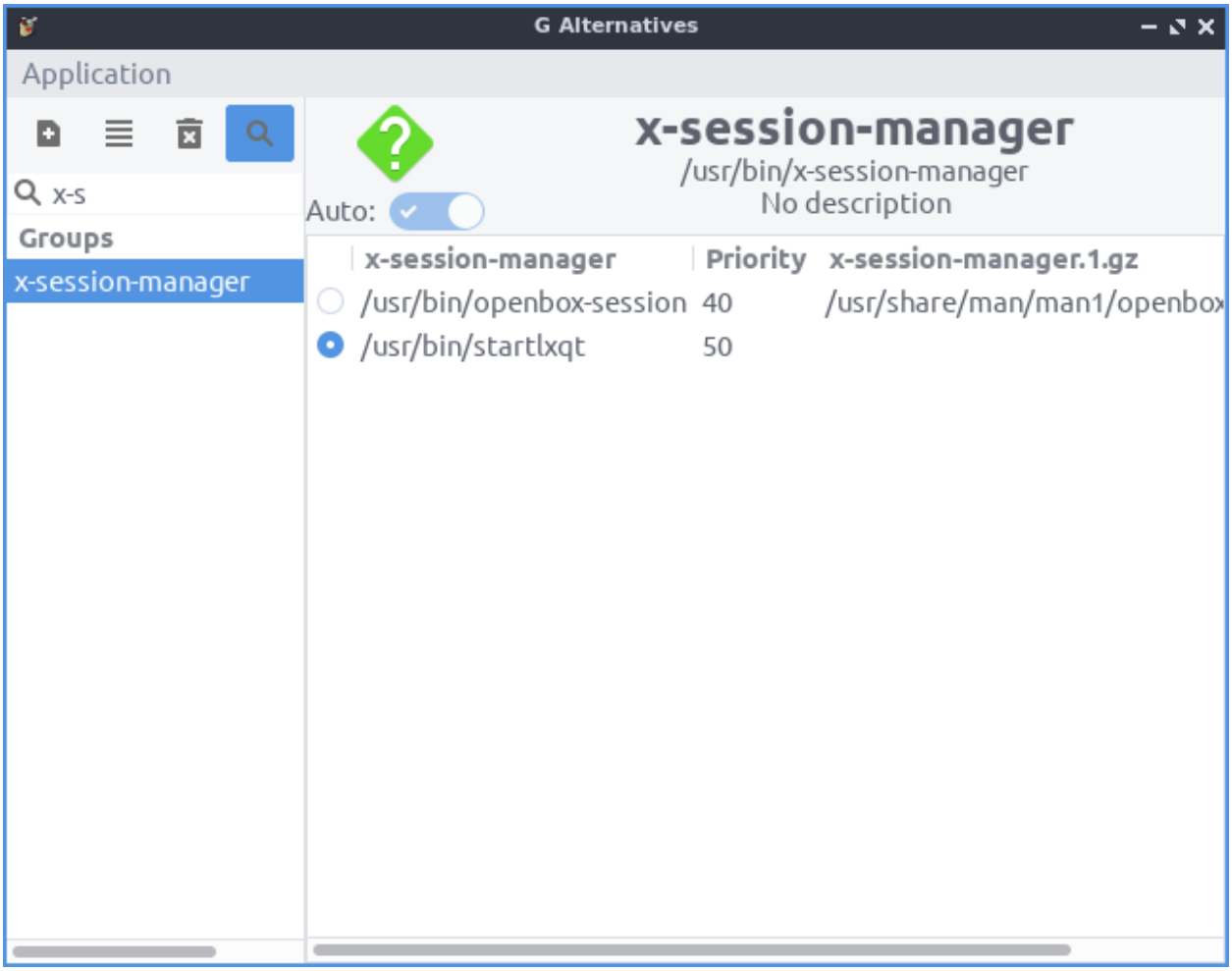
To select the command to choose your alternatives for the default program for something such as your default text editor if you have multiple programs installed by left clicking what to be the alternative on the left sidebar under the column Groups. On the right side of the window has a radio button to choose which editor you want to use. Left click on the button to change to the new default program. When you change your alternative you will input your password to authenticate to change your default application.

To show a search for the different application groups press the button that looks like a magnifying glass. Type the results in the field next to the magnifying glass and then see the results on the left and side column.

Version

Lubuntu ships with version 1.0.8 of Alternatives Configurator.

Screenshot



How to Launch

To launch Alternatives Configurator from the menu Preferences ▸ Alternatives Configurator or run

```
galternatives
```

from the command line. The icon for Alternatives Configurator is a dark gray circle with an orange G with an a inside.

Chapter 3.3.2 Bluetooth Manager

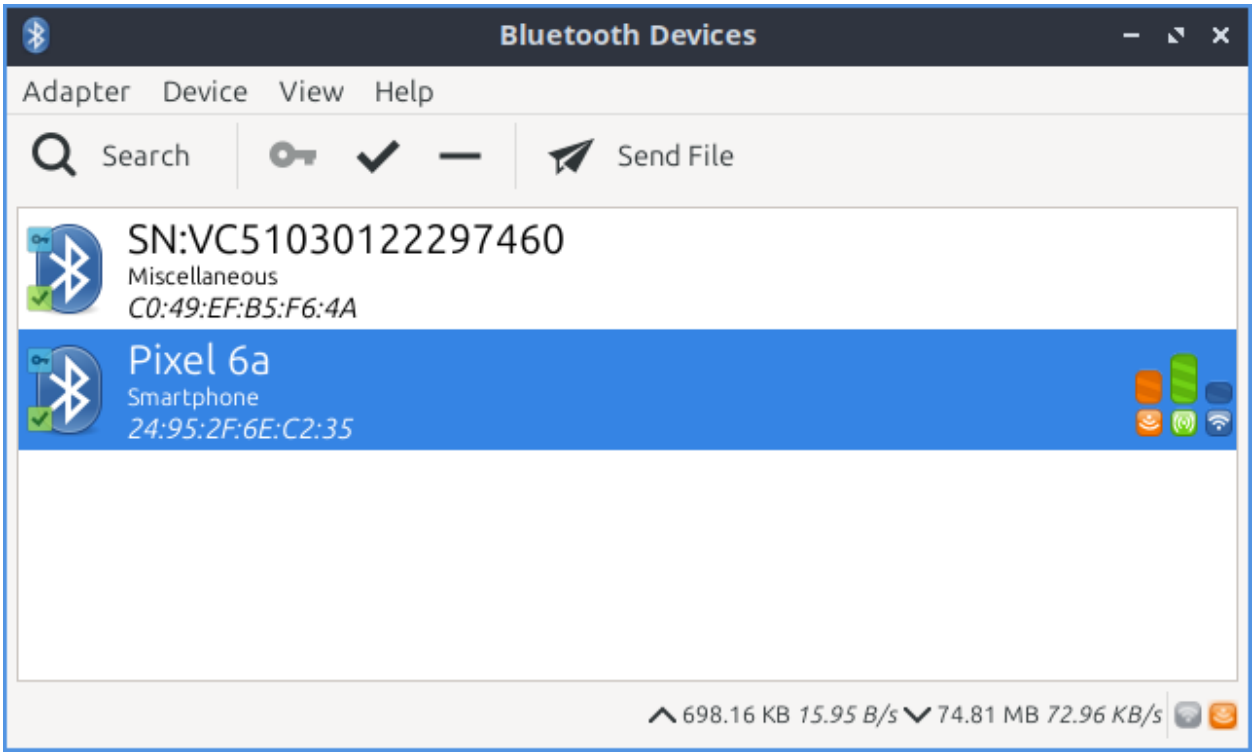
Bluetooth Manager connects to your machine to other device via Bluetooth.

Usage

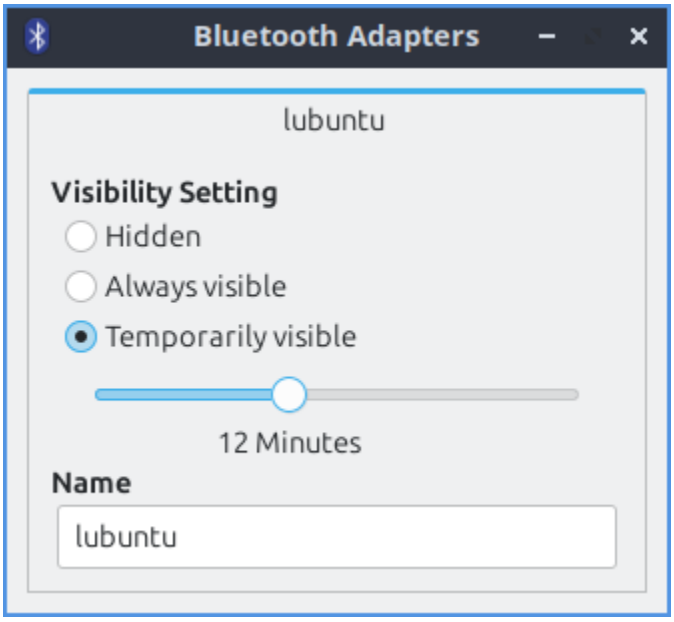
To search for Bluetooth devices press the Search button. The Bluetooth devices you will have found will be shown in the center of the window.

To pair with a device press the Key button. After pairing for the first time you will be asked

permissions based on what type of device it is press Accept to allow access or Deny to not allow access. To mark a device as trusted press the Checkmark button. To remove a device from your device list press the - button or Device ▸ Remove.



To change settings on whether your Bluetooth is visible to other devices or your name on Bluetooth select Adapter ▸ Preferences. To make your Bluetooth not show up when other people are selecting Bluetooth devices to connect to select Hidden. To have your Bluetooth adapter show up whenever anyone searches select Always visible. To have your Bluetooth appear for a short amount of time select Temporarily Visible and then use the slider to select the amount of time to make the adapter visible. To change the name you show up on bluetooth type your name in the Name field.



To transfer a file over Bluetooth press the Send file button or right click the adapter and select Send a file. Then a file picker will pop up to select the file. The recipient of the file may be prompted to need to accept the file.

To connect to a saved Bluetooth device left click to select the device and Device ▸ Connect or right click and select Connect. To cancel a connection press the X button. To view info on a paired device Device ▸ Info or right click and select Info. To block a device Device ▸ Block or right click and select Block. To disconnect a device Device ▸ Disconnect. To rename a Bluetooth device Device ▸ Rename device or right click on a device Rename device. and type in what you want and press OK. To remove a device Device ▸ Remove or right click Remove.

On the bottom of the window there shows you statistic about how much data has been sent over Bluetooth first how much you uploaded, downloaded and then the speed of the connection.

To toggle showing the toolbar check/uncheck Device ▸ Show Toolbar. To toggling showing the statusbar Device ▸ Show Statusbar. To hide unnamed devices View ▸ Hide unnamed devices.

Version

Lubuntu ships with version 2.4.4 of Bluetooth Manager.

How To Launch

To launch Bluetooth Manager Preferences ▸ Bluetooth Manager or run

```
blueman-manager
```

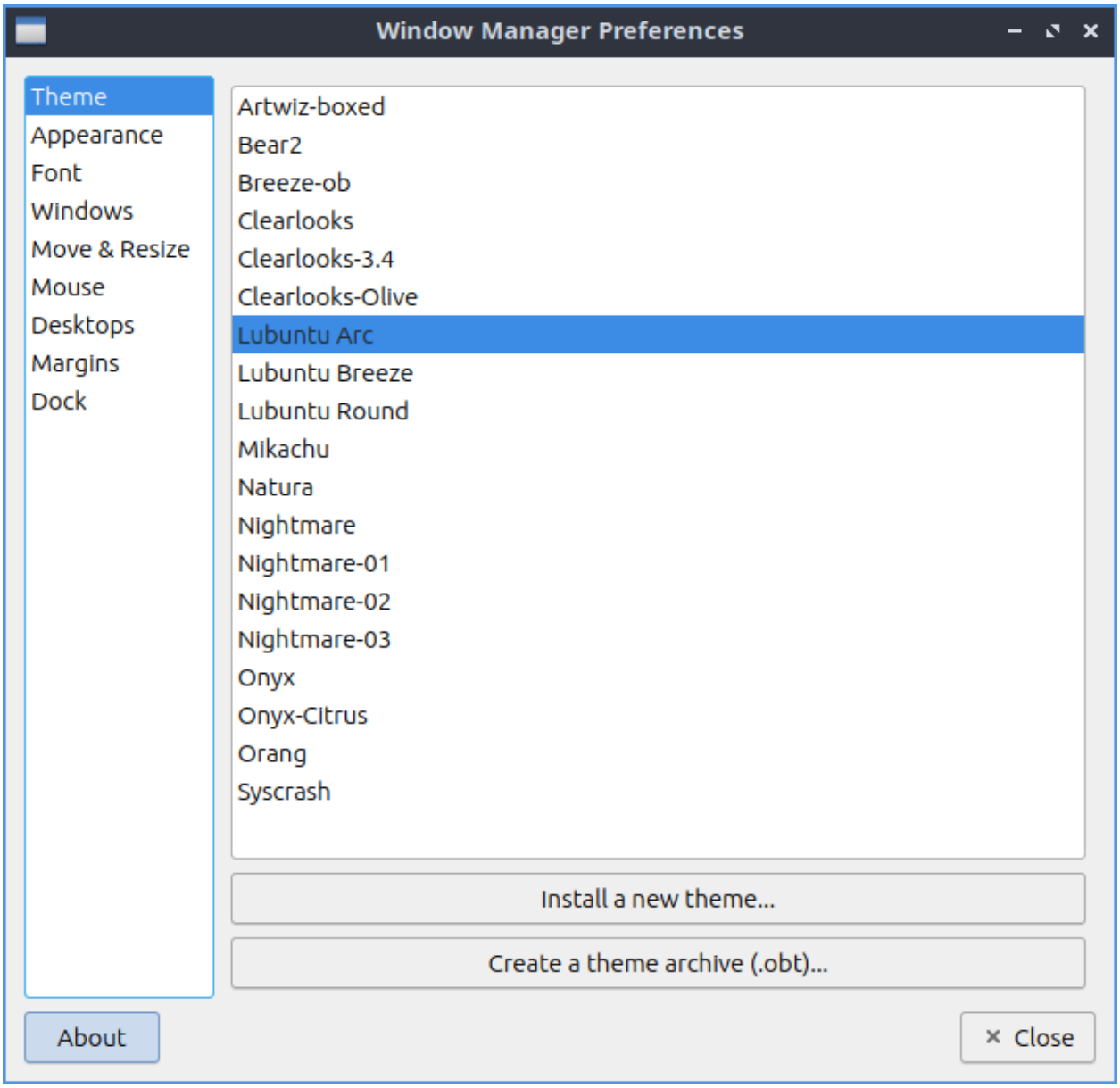
from the command line.

Chapter 3.3.3 Openbox Settings

Openbox Settings changes configuration of Openbox the default window manager of Lubuntu.

Usage

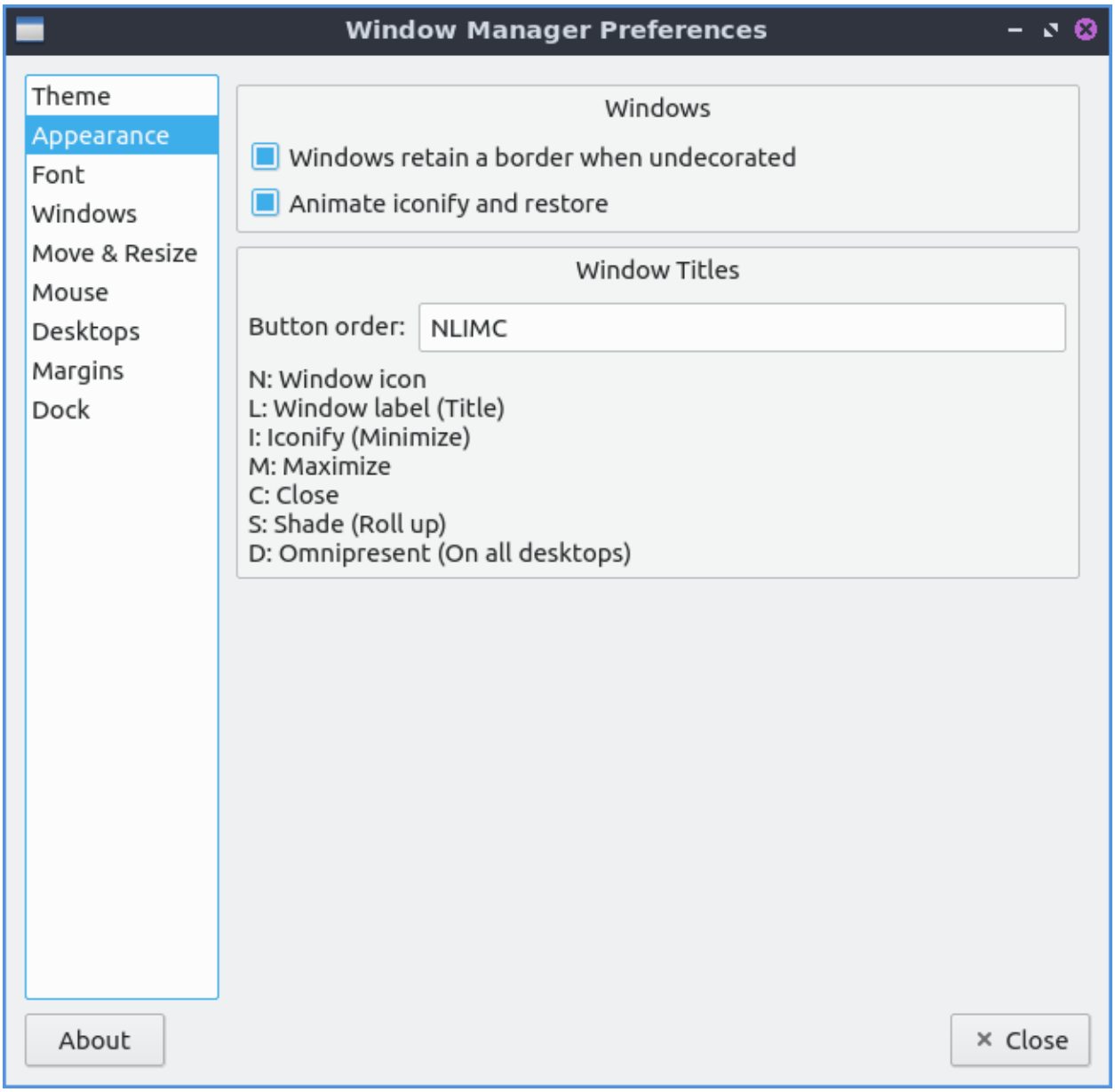
The Theme tab changes the titlebars and menus provided by the window manager. To change the theme of the titlebar left click on the theme name. The new titlebars will immediately appear and you will see it on that window. If you want to check what menus to manage windows will look like click on the icon on the left of the titlebar.



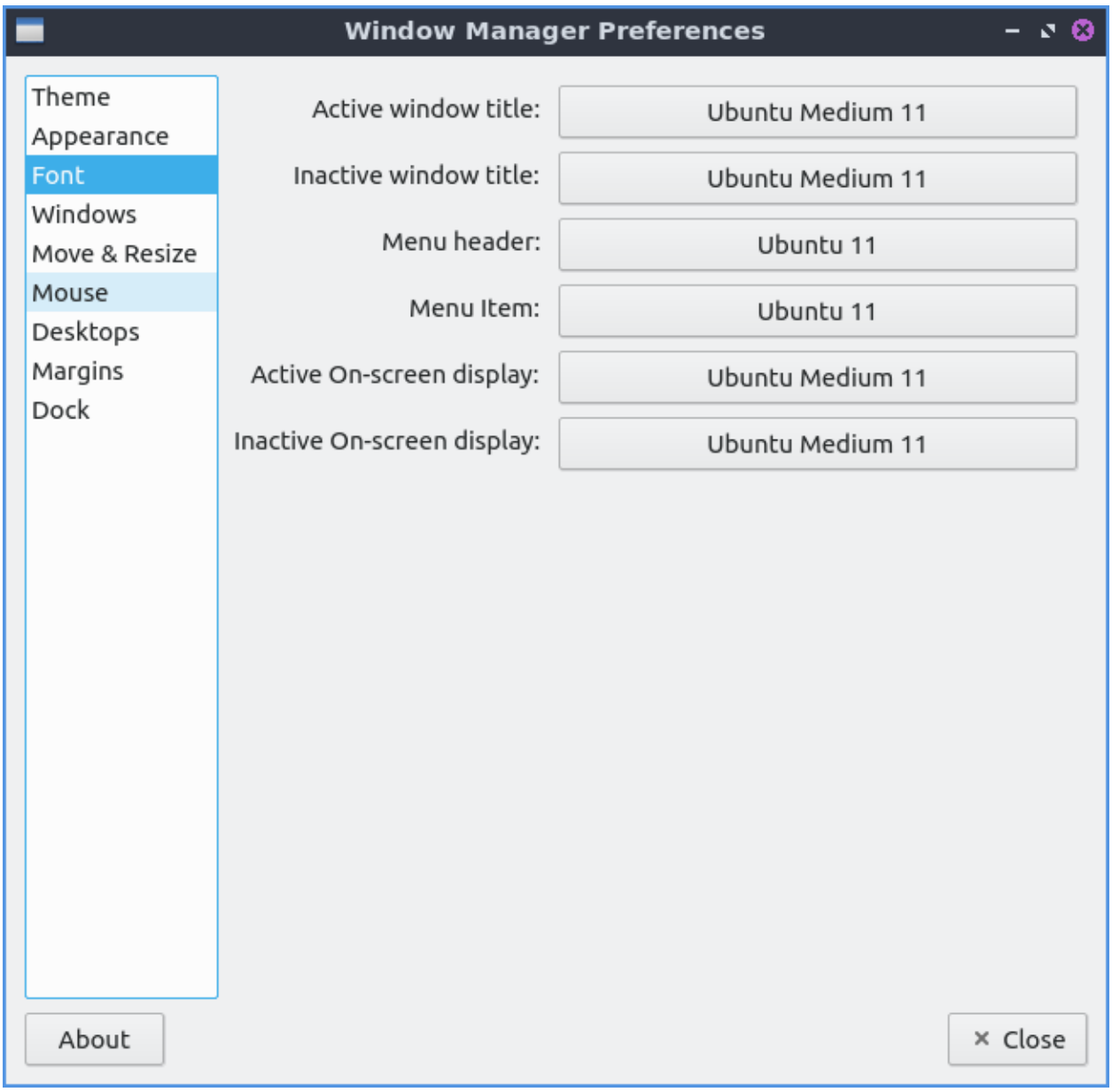
The Appearance tab lets you change the location of buttons or add/remove buttons. The Windows retain a border when undecorated checkbox has windows still have a border if you choose to decorate them. The Animate iconify and restore checkbox runs a simple animation when you iconify(minimize) a window or restore it.

Lubuntu ships with the ability to have two additional buttons on the titlebar one for shading or rolling up with the window so you can put this in the left to right order of the letters where you want the button. To make a window show on all desktop you can add D button in box for the Button order. If you want to change the window titlebar button order to have the iconify (minimize), maximize, and close buttons on the left then move the letters IMC to the left of

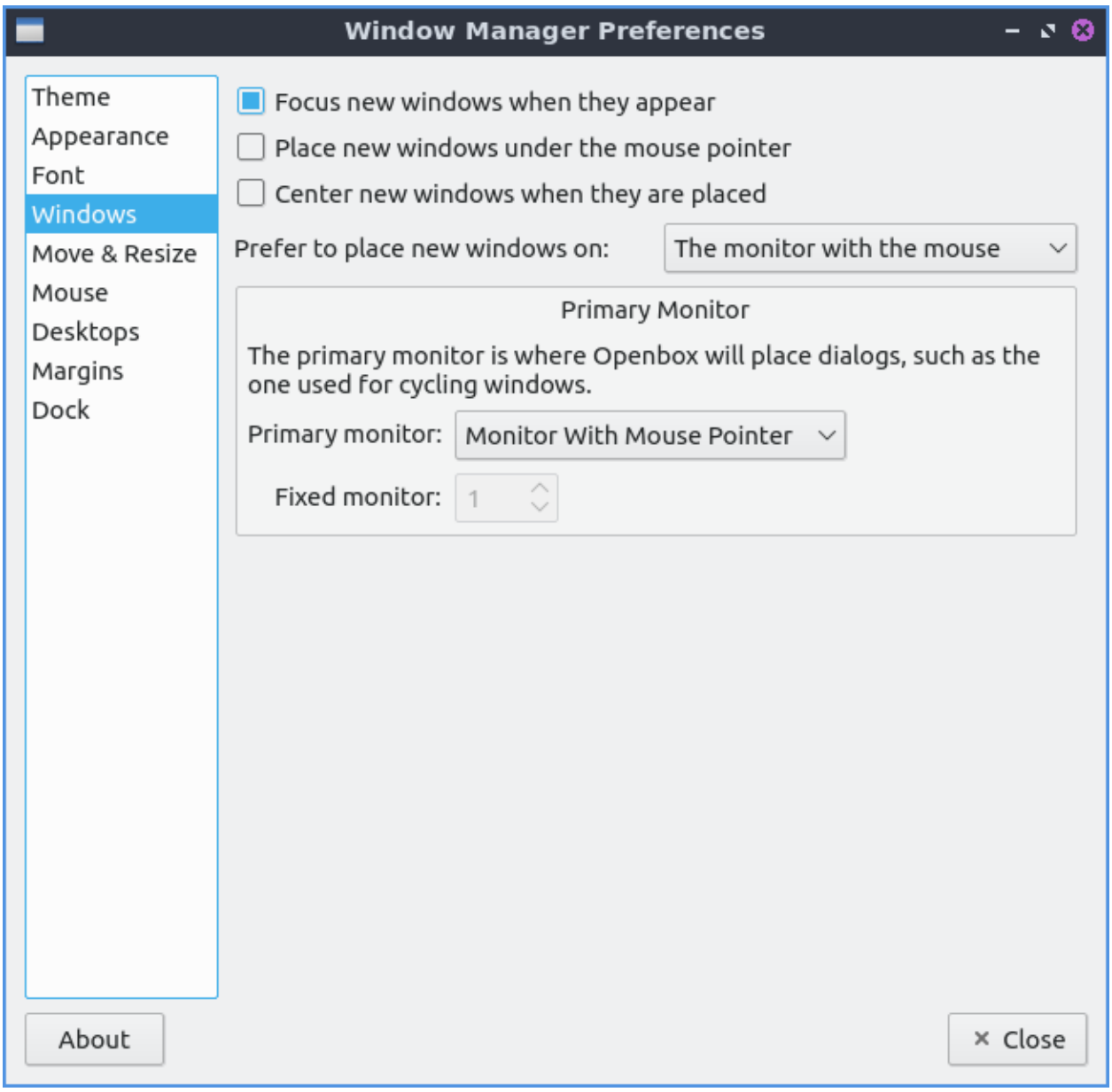
L for window label or the title of the window. If you want to have the close maximize and iconify buttons first the box labeled window titles should read CMI Then L for the window label which will always be in the center. If you wanted the buttons on the right with Close, Maximize, Iconify, the window title, then shade the window, and all desktops and the window icon in the far right it should read CMILSDN.



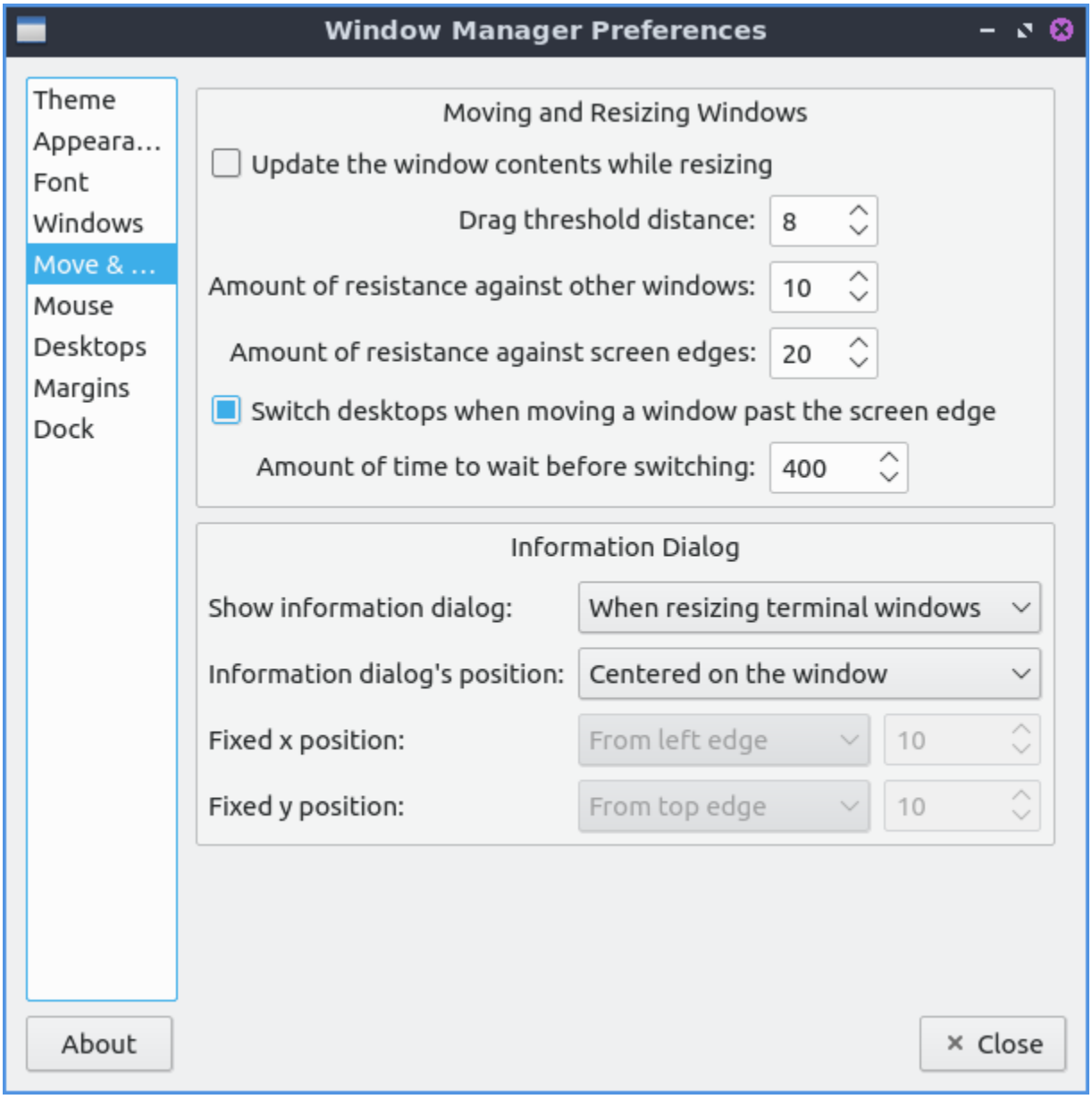
The Font tab changes the font and font sizes for several different contexts. To change the style of the font you can under the Inactive window title field. For example if you have trouble telling which window you are in you can make the font italic for the titlebars of inactive windows to make it even more obvious. Other fonts you can change are Active Window title, Menu header, Menu Item, Active On-screen display, or Inactive On-screen display. To chose which monitor if you want them on a specific monitor select the monitor with Fixed monitor.



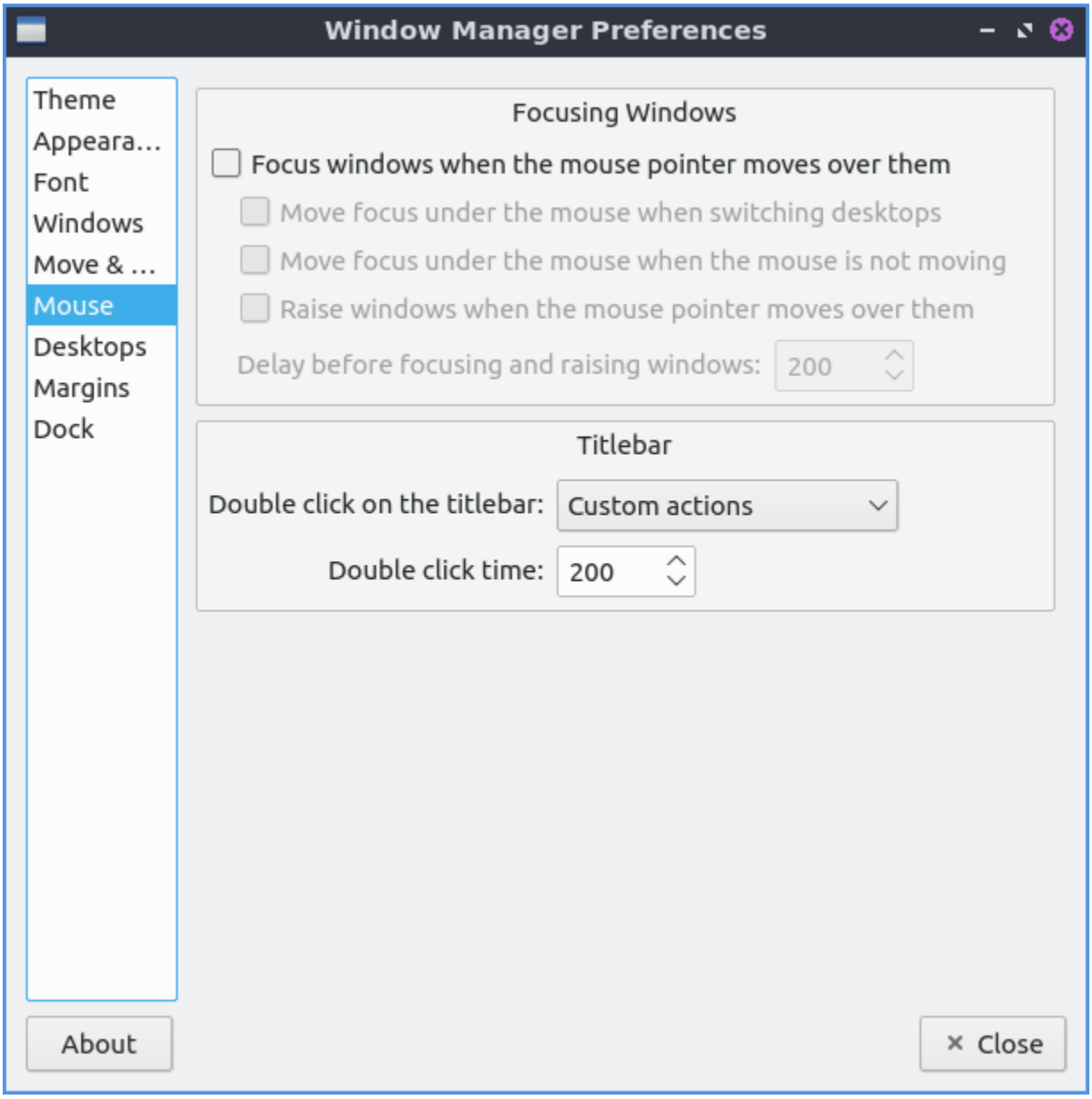
The Windows tab manages the behavior of newly opened windows. The Focus new windows when they appear checkbox gives new windows focus when they finish opening and then be the active window as if you clicked on the icon on the taskbar. The Place new Windows under the mouse pointer puts all your new windows you open under the mouse pointer. The Center new windows when they are placed puts the new windows in the center of the monitor. The drop down menu for Prefer to place new windows on shows you where to place new windows on multimonitor layouts. To change which desktop Openbox uses for places when switching windows with alt tab change the Primary monitor drop down.



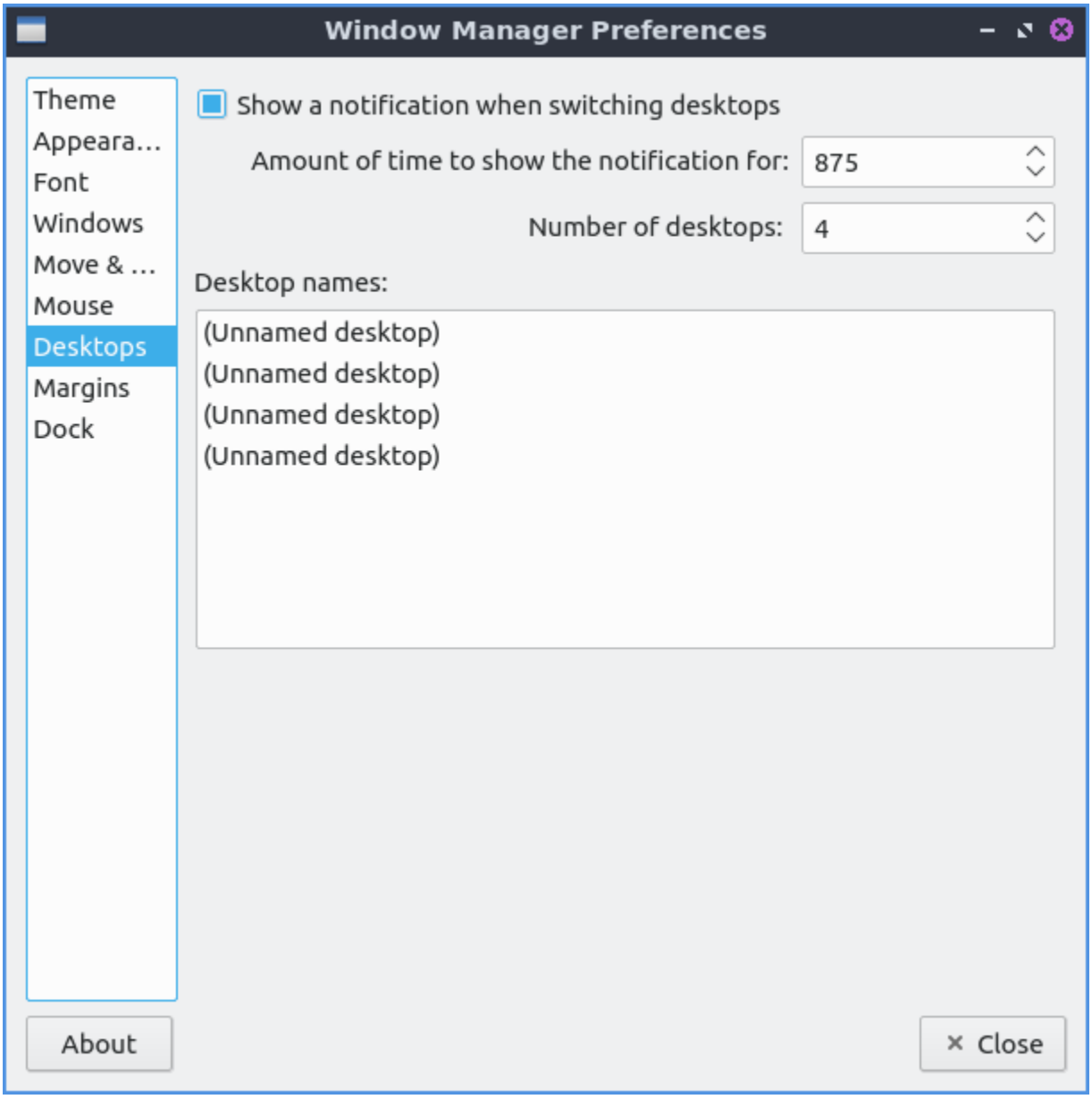
The Move & Resize tab changes settings for moving and resizing windows. The checkbox Update window contents while resizing redraws the whole window when resizing it. Having it unchecked will have a drawn solid color until you stop resizing it. The Drag threshold distance changes the minimum number of pixels to drag a window. To change how much you need to drag a window past another window change the Amount of resistance against other windows field. The Switch desktops when moving a window past the screen edge checkbox lets you drag a window past the edge to switch desktops. To change how hard it is to drag a window past a screen edge change the Amount of resistance against screen edges field. The field for Amount of time to wait before switching lets you change the amount of time to wait before moving beyond the edge of the desktop to another virtual desktop or physical monitor. The drop down menu for Show information dialog shows how you how many characters fit on the newly resized window for always, terminal windows only, or never. The field for Information dialog's position is where to show this information dialog.



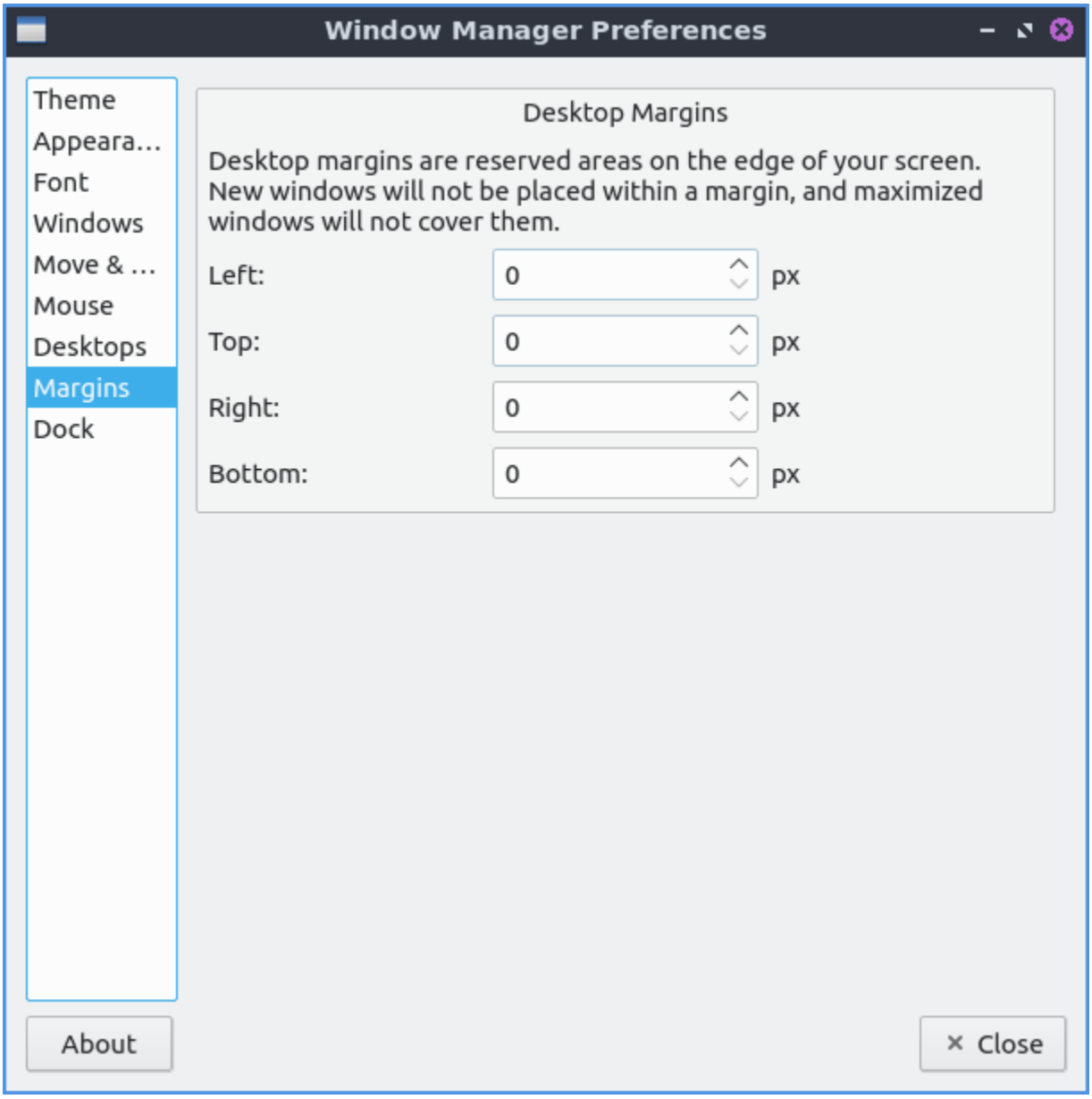
The Mouse tab use the focus follow mouse tab is if you move the mouse over the window it will automatically focus on that window. To automatically focus windows when the mouse cursor when the mouse pointer check the Focus windows when the mouse pointer moves over them. To change your focus to a new window check/uncheck the checkbox Move focus under the mouse when switching desktops. If you move a window with a keyboard shortcut and a different window is under it check the Move focus under the mouse when the mouse is not moving checkbox. The checkbox Raise windows when the mouse pointer moves over them moves the window up in the layers. The Double click on the titlebar drop down of double clicking on the titlebar what option of to shade or maximize the window or custom actions which Lubuntu has set to maximize. To change how long you have to double click change the Double click time field.



On the Desktops tab to change number of desktops press the up arrow to add an additional desktop or the down arrow to reduce the number of virtual desktops. When switching desktops there is a checkbox to Show a notification when switching desktops and a field for how many milliseconds to show that notification for. To change how many virtual desktops you have change the Number of desktops field. If you want to rename a desktop double click on the desktop name and type the name of the desktop you want.



To make a margin on your desktop on which nothing is placed you can set pixel margins on each side with the Margins tab. The fields Left, Top, Right, or Bottom each have a field for each number of pixels as a margin.



To close Openbox Settings press the `Escape` key or press the Close button.

Version

Lubuntu ships with version 0.16.6 of Openbox Settings.

How to Launch

To launch Openbox Settings from the menu Preferences ▸ Openbox Settings. From LXQt settings press the Openbox Settings button with two computer windows or run

```
obconf-qt
```

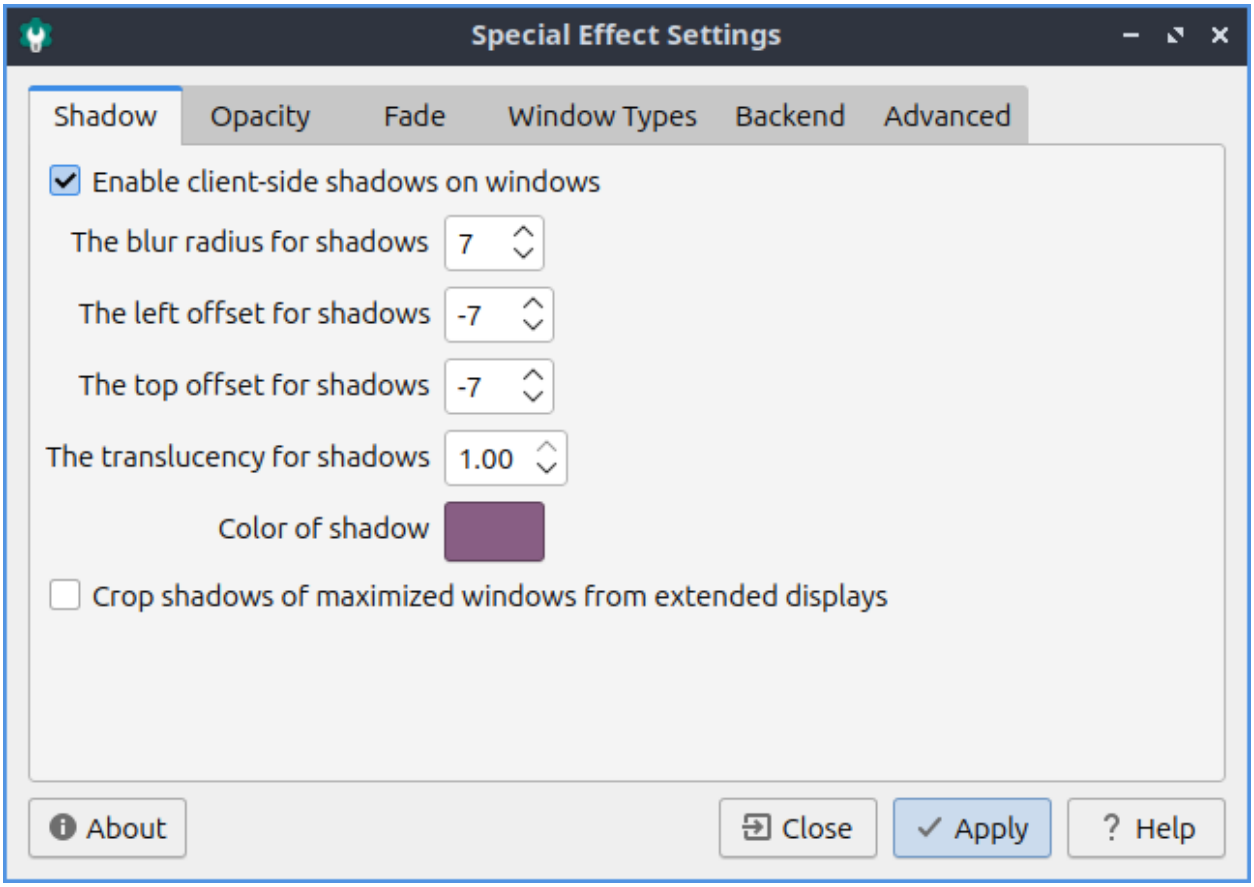
from the command line.

Chapter 3.3.4 Picom Configuration

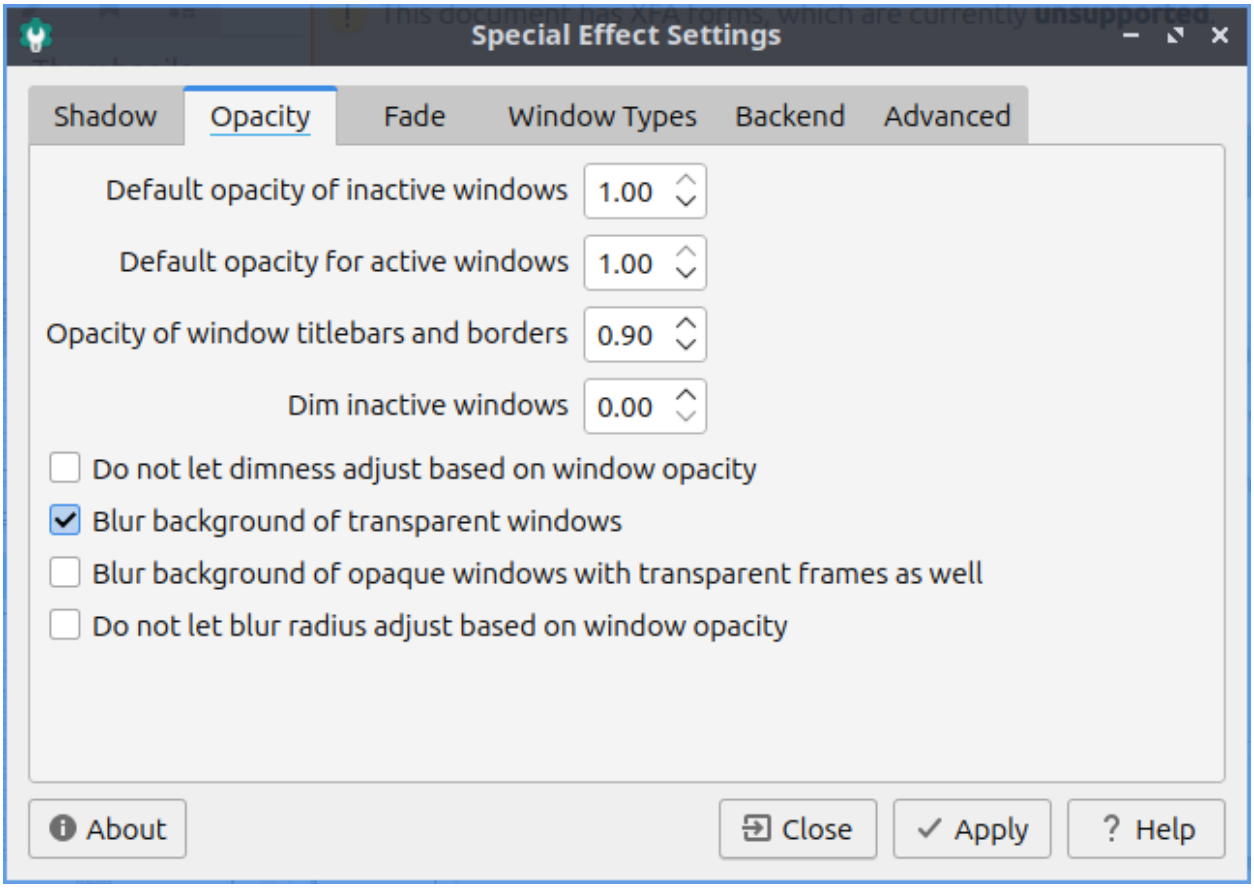
Picom Configuration is the default program in Lubuntu to manage effects of the Picom X11 compositor.

Usage

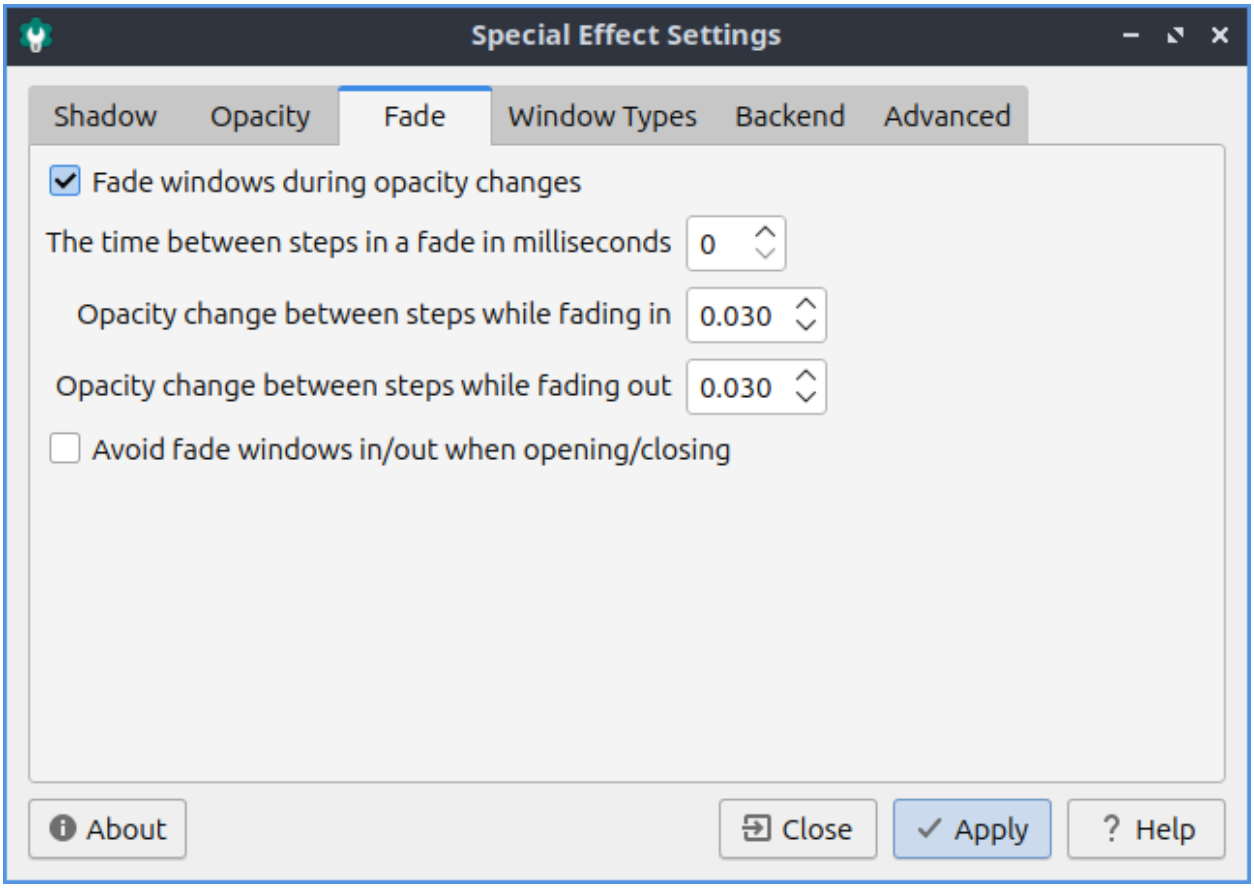
The Shadow tab manages how picom draws shadows. To toggle enable client side shadows press the Enable client side shadows on windows checkbox. The Color of shadow lets you change the color of shadows from windows. The field for The blur radius for shadows changes how big to blur the shadows. The left offset for shadows is how far to move the shadows to the left with a larger number makes the shadow appear farther to the right. The top offset for shadows controls where to put the shadow vertically with larger the numbers having the shadow below the window. The translucency for shadows field is how opaque or clear to make the shadows 1 is opaque shadows and 0 is clear. The Crop shadows of maximized windows from extended displays checkbox does not have shadows across multimonitor layouts on other monitors from windows on another.



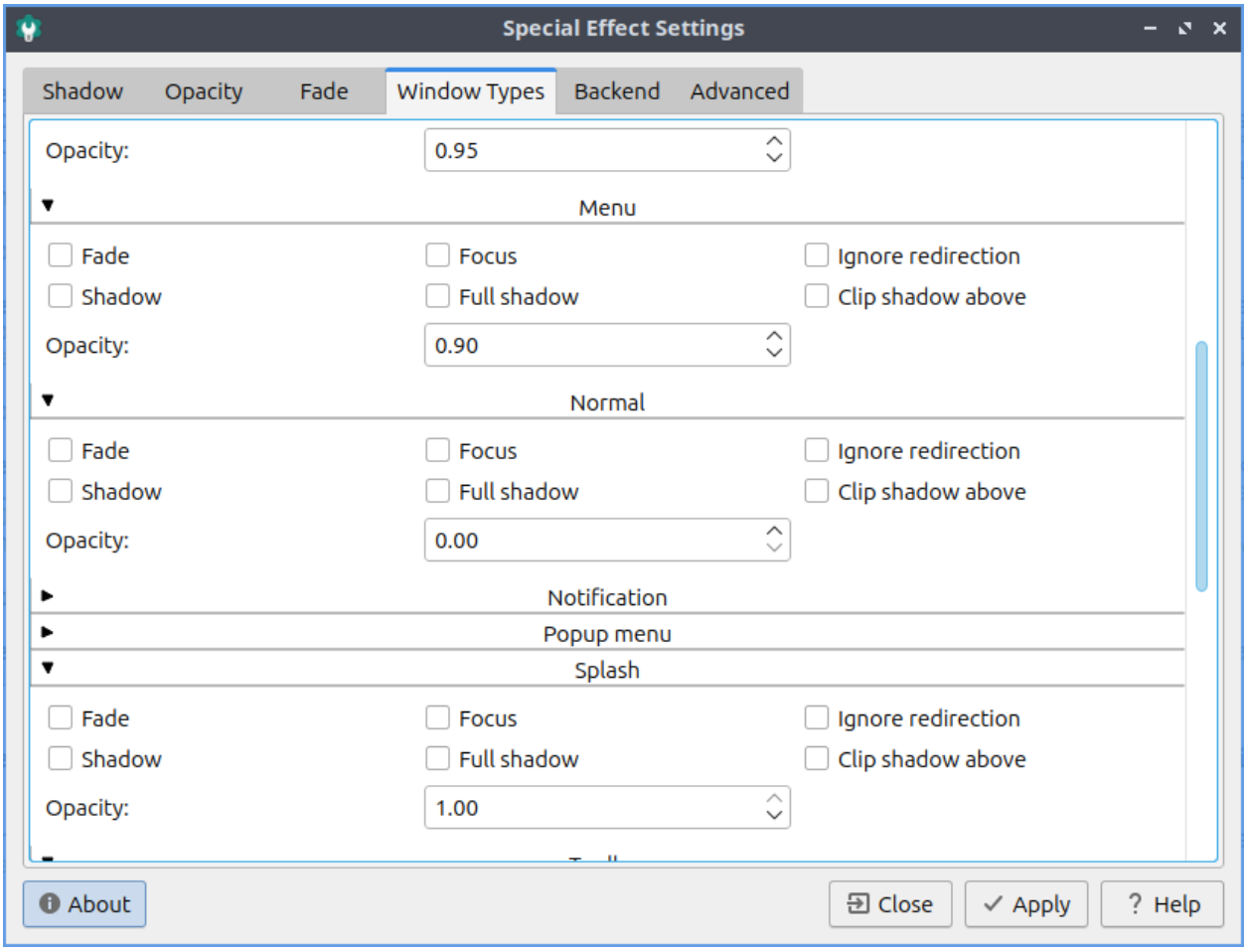
The Opacity tab is for transparency settings. Setting Opacity to 1.00 makes it opaque while 0 makes it entirely clear. Menus, inactive windows, active windows, and titlebars and borders can all have their opacity changed independently. To not change how bright or dim windows are with window opacity check the Do not let dimness adjust based on window opacity. The Blur background of transparent windows blurs the background of transparent windows. To keep windows bluring the same no matter the opacity of the window check Do not let blur radius adjust based on window opacity checkbox.



The Fade tab manages fading windows opening or closing or opacity changes. There is a checkbox for Fade windows during opacity changes so if the opacity changes it will smoothly fade. To have a slower time between fade in milliseconds increase The time between steps in a fade in milliseconds. To change how much to change opacity while a window is fading in change Opacity change between steps while fading in field. To change steps when fading out change Opacity change between steps while fading out field. With this settings windows will fade in and out when opened and closed unless you don't them to which you can check the Avoid fade windows in/out when opening/closing.



The Window Types tab lets you change settings for many different types of windows indivuadally. The different type of windows are Combo, Desktop, Dialog, Dnd, Dock, Dropdown menu, Menu, Normal, Notification, Popup menu, Splash, Toolbar, Tooltip, Unkown, or Utility. To expand a window type left click on the rightward pointed arrow. To collapse a type of window left click on the downward pointed arrow. To change the opacity of a each type of window change the Opacity field.



The Backend tab has settings for changing the backend of how picom renders things. The Rendering backend changes what picom uses to render the window effects. To switch to hardware accelerated rendering of the picom backend press the GLX(OpenGL) button. To change back to the default rendering press the X Render button.

To have your settings applied you will need to press the Apply button. If you want to cancel your changes press the Close button. If you want to close Window Effects press the `Escape` key.

Version

Lubuntu ships with version 0.17.0 of Picom Configuration.

How to Launch

To launch Picom Configuration from the menu Preferences ▸ Picom Configuration or run

```
picom-conf
```

from the command line. The icon for Picom Configuration is a gear button with a c in it to launch Picom Configuration. Of course for this to have any effect the picom compositor needs to be running so see Chapter 3.2.13[23] for how to autostart applications. To start the picom compositor just once Accessories ▸ picom from the menu.

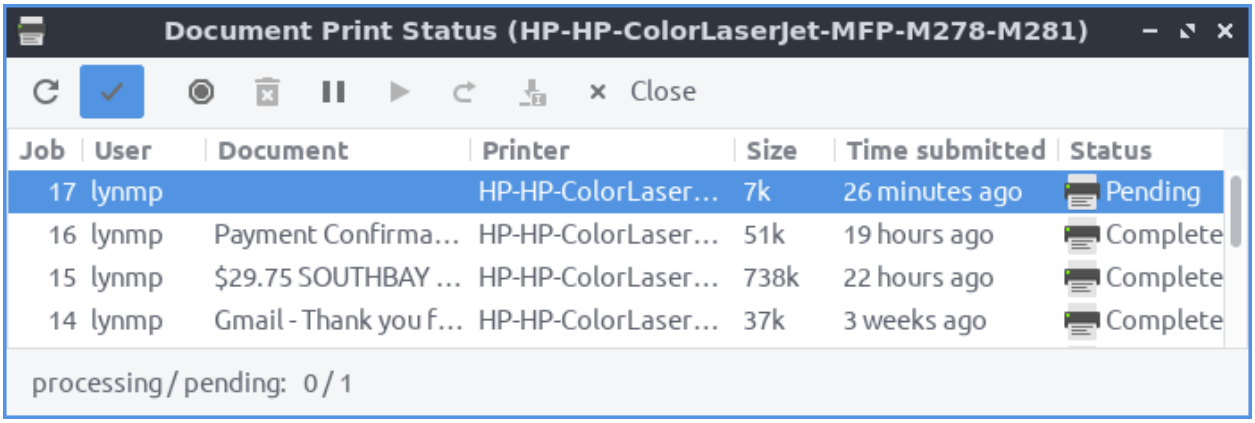
[23] https://manual.lubuntu.me/3/3.2/3.2.13/session_settings.html

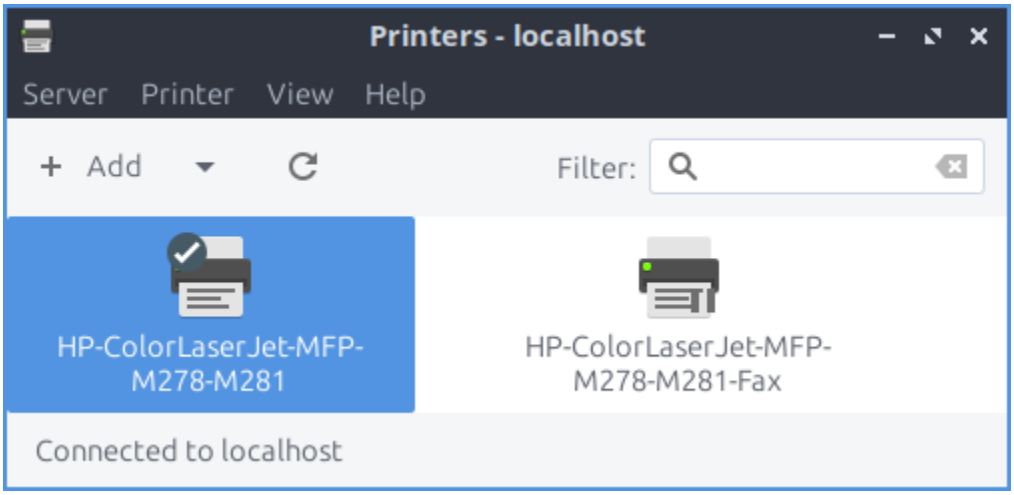
Chapter 3.3.5 Printers

Printers allows you to configure your printer(s) and shows your print queue.

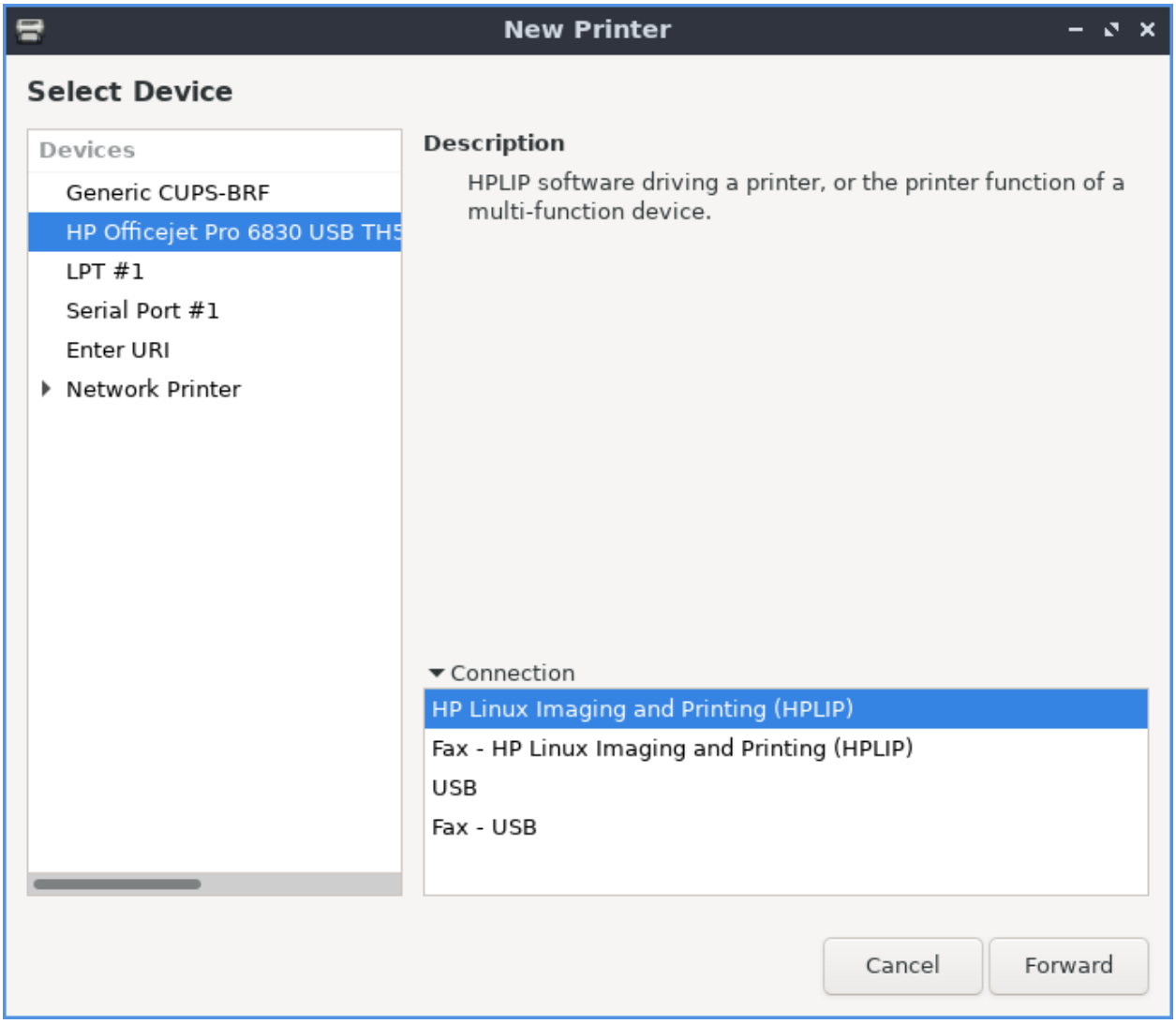
Usage

To view your print queue right click on the printer and right click View Print Queue, with the printer selected press `Control+F`, or Printer ▸ View Print Queue and if a job is held you can restart it. To see what status in your printer view the Status column to see if the job is pending, held or printed. To view what you have already printed press the Checkmark button. To reprint a job press the u shaped arrow button or right click and select Reprint. To cancel a job press the button with an octagon with a circle in it or right click on the job and select Cancel. To hold a printer job press the || button or right click and select Hold.



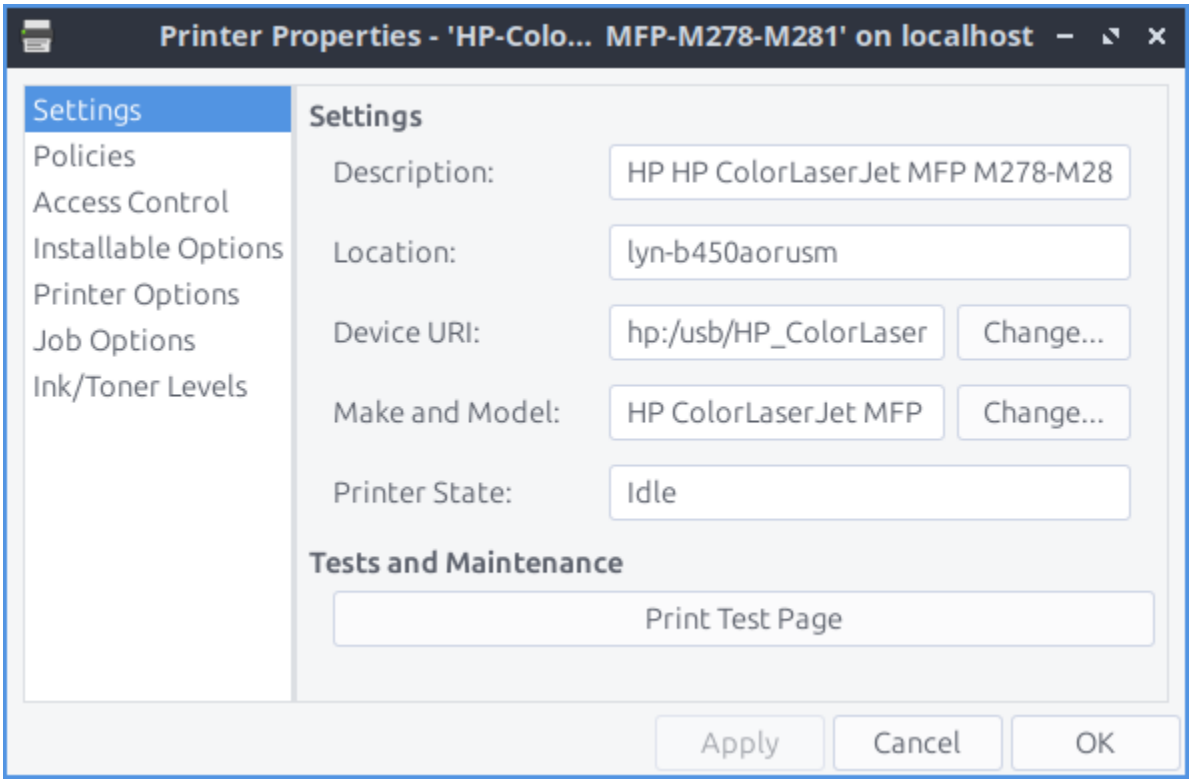


To add a new printer press the Add button or Server ▸ New ▸ Printer. A dialog will popup showing where you can connect the printer. Then look for your printer in the sidebar on the left hand side. Left click on the name of your printer and press the Forward button. To change the name of your printer type it in the Printer Name field. To change the description of your printer type in the Description field. To have a location for the printer type in the Location field. To move to the next step press the Forward button. After this a dialog will pop up asking if you want to print a test page.

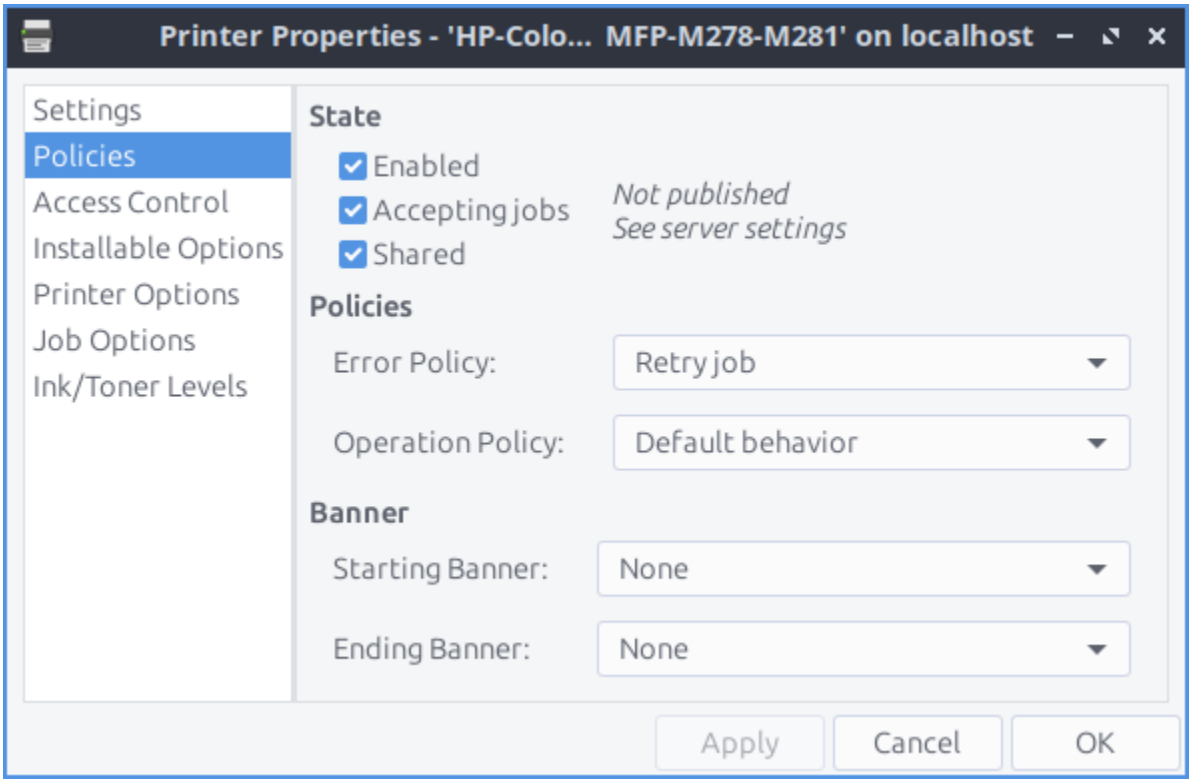


If you want to delete a printer Printer ▸ Delete or right click on the printer and select Delete after left clicking on the printer will delete the printer after you left click on it and you will be asked to confirm so you do not accidentally delete your printer. If you have multiple printers and want to set one as default right click on the printer and select Set As Default. To change the name of your printer right click on the printer and select Rename or Printer ▸ Rename. To make a copy of a printer settings press `Control+D`, right click Duplicate, or Printer ▸ Duplicate. To set a printer as default right click Set As Default or Printer ▸ Set As Default.

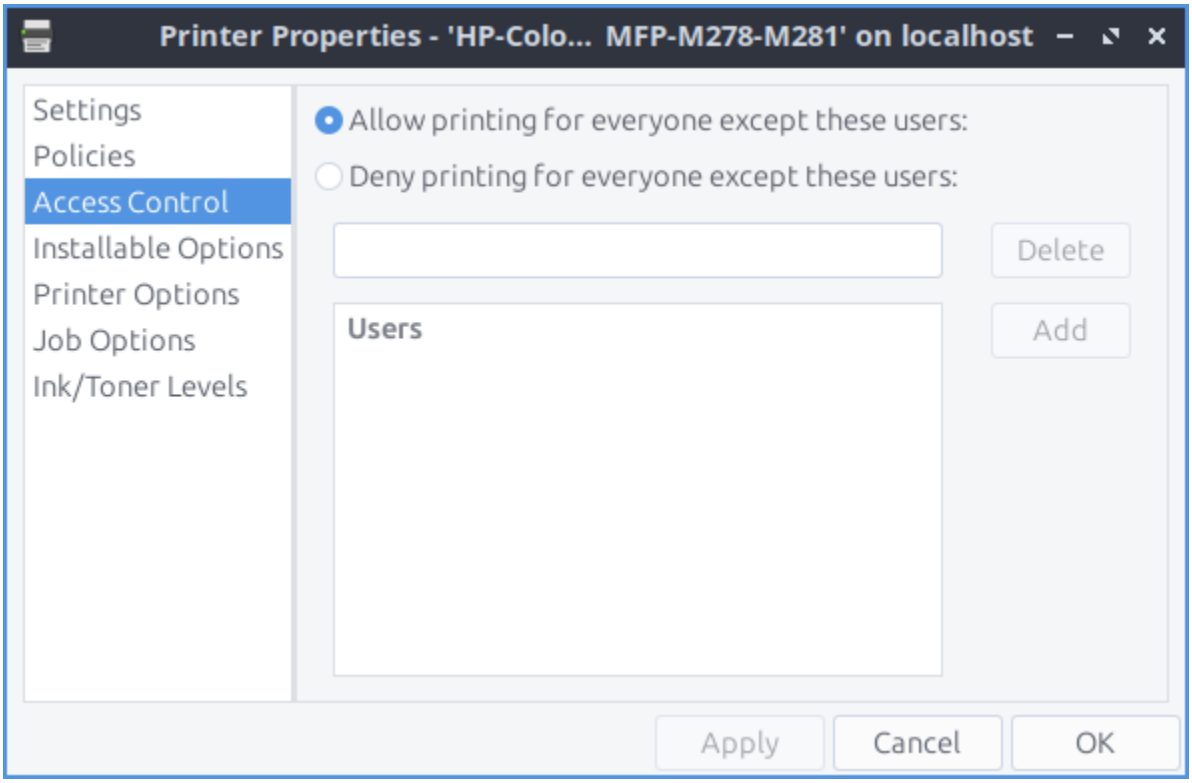
To view or change the properties of printer or make changes with Printer ▸ Properties. To see settings on the printer has use the Settings tab. To change how to describe and name your Description field. To change where the location of this printer is change the Location field. To choose a different driver to use for your printer press the Change button to the right of Make and Model. To see the current state of the printer view the Printer State field. To see what To print a test page press the Print Test Page button.



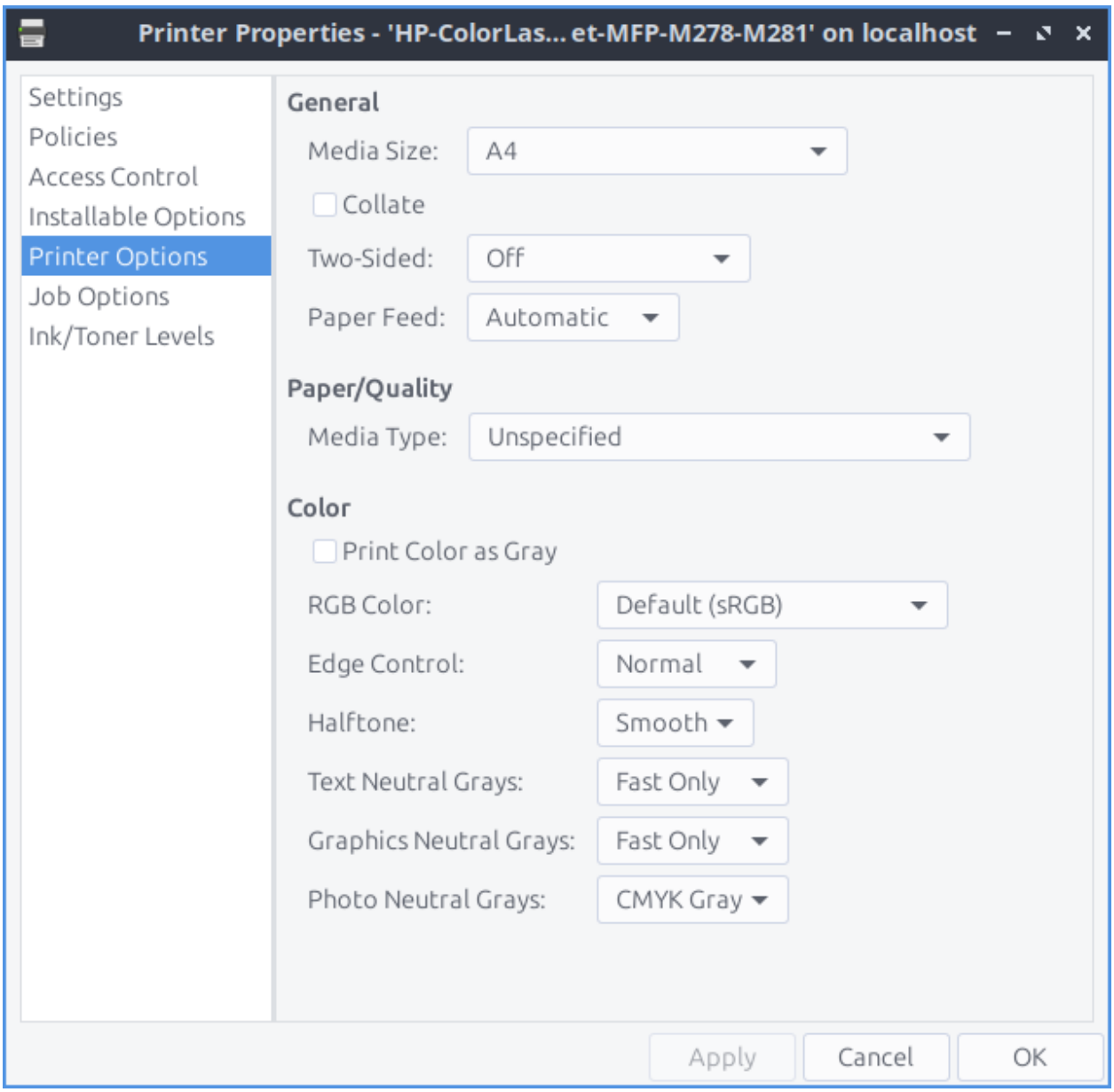
To change what your printer changes on errors or is enabled and banners use the Policies tab. To disable a printer uncheck the Enabled checkbox. To have the printer not accept jobs uncheck the Accepting jobs checkbox. To not share your printer uncheck the Shared checkbox. To change what to do when your printer encounters an error change the Error Policy drop down menu. To have a banner before you start printing use the Starting Banner drop down. To have a banner ending what you print use the Ending Banner drop down.



If you want to change which users can use this printer use the Access Control tab. To add a user to not be allowed to print type there name in the bar and press the Add button. To remove a user from this list left click on the username and click the Delete button. To switch to only allowing users on the list to print press the Deny printing for everyone except these users button. To switch back to banning users from printing press the Allow printing for everyone except these users checkbox.



To choose settings specific to your printer use the Printer Options tab. To choose your paper size use the Media Size drop down. To have your printer collate select On from the Collate drop down menu. To print color as gray check the Print Color as Gray checkbox.



To see what options each jobs has for each printer use the Job Options tab. To change how many copies to have by default Copies field. To change which direction to print with this printer by default change the Orientation field. To have the printer resize anything you print to fit to a page check the Scale to fit checkbox.

To close Printers press `Control+Q`.

Version

Lubuntu ships with version 1.5.18 of Printers.

How to Launch

To launch Printers from the menu Preferences ▸ Printers or run

```
system-config-printer
```

from the command line. The icon for Printers looks like a printer.

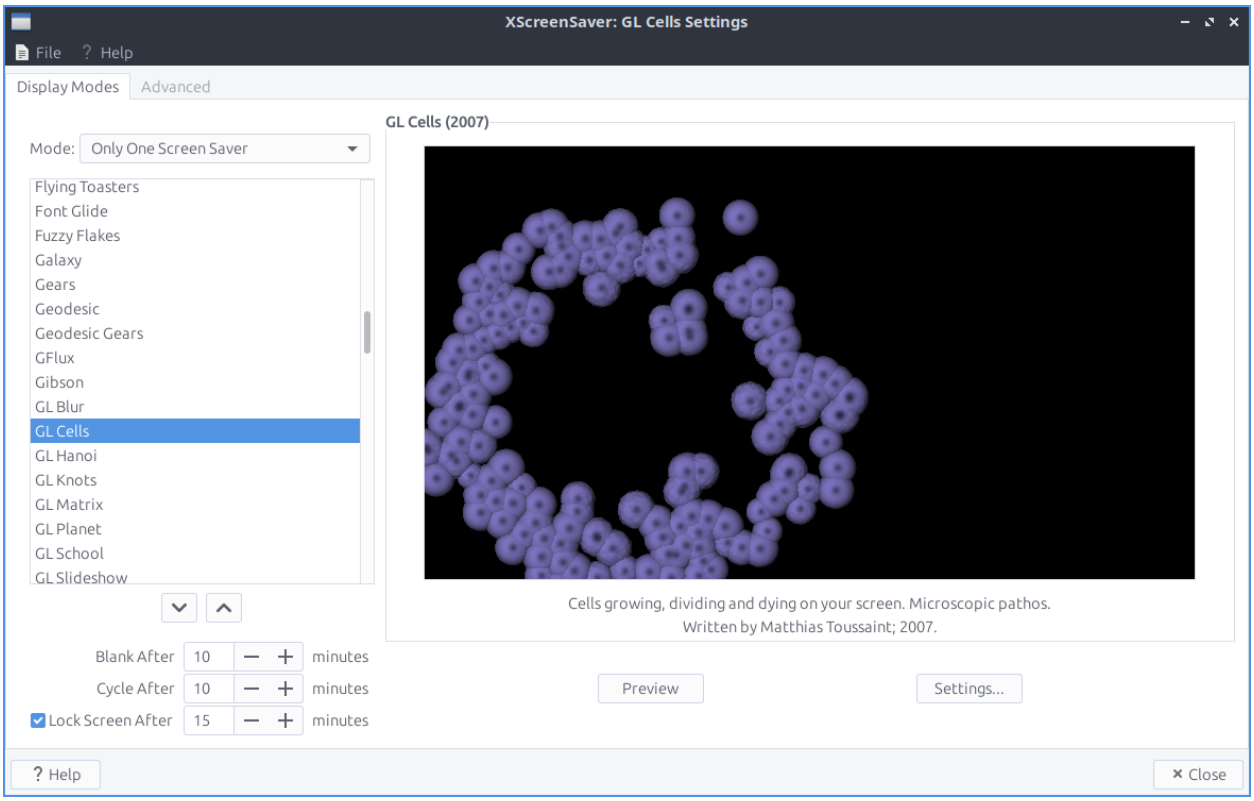
Chapter 3.3.6 Screensaver

Screensaver is an application to control what screensavers are used on the system and how long it takes to activate the screensaver.

Usage

The Mode drop down has 4 settings Disable Screen Saver turns off the screensaver, Blank Screen Only just turns the screen itself off, Only One Screen Saver sets one screensaver, and Random Screen Saver selects a random screensaver. If you selected to blank the screen change the Blank After field. If you have a random screensaver set you can change with the number of minutes it says with Cycle After for when the screensaver will change to another one. Check the checkbox for Lock Screen After takes the number of minutes to lock the screen and change minutes to change how soon to lock the screen.

To change your screensaver to a different screensaver left click on the name of the screensaver on the left hand side of the screen. You can see a small preview of the screensaver on the right hand side of the window with the name of the screensaver above the preview.



If you try to select a screensaver that is not installed it will not show on the right hand side of the window. To see credit and a summary of what each screensaver is read the text under

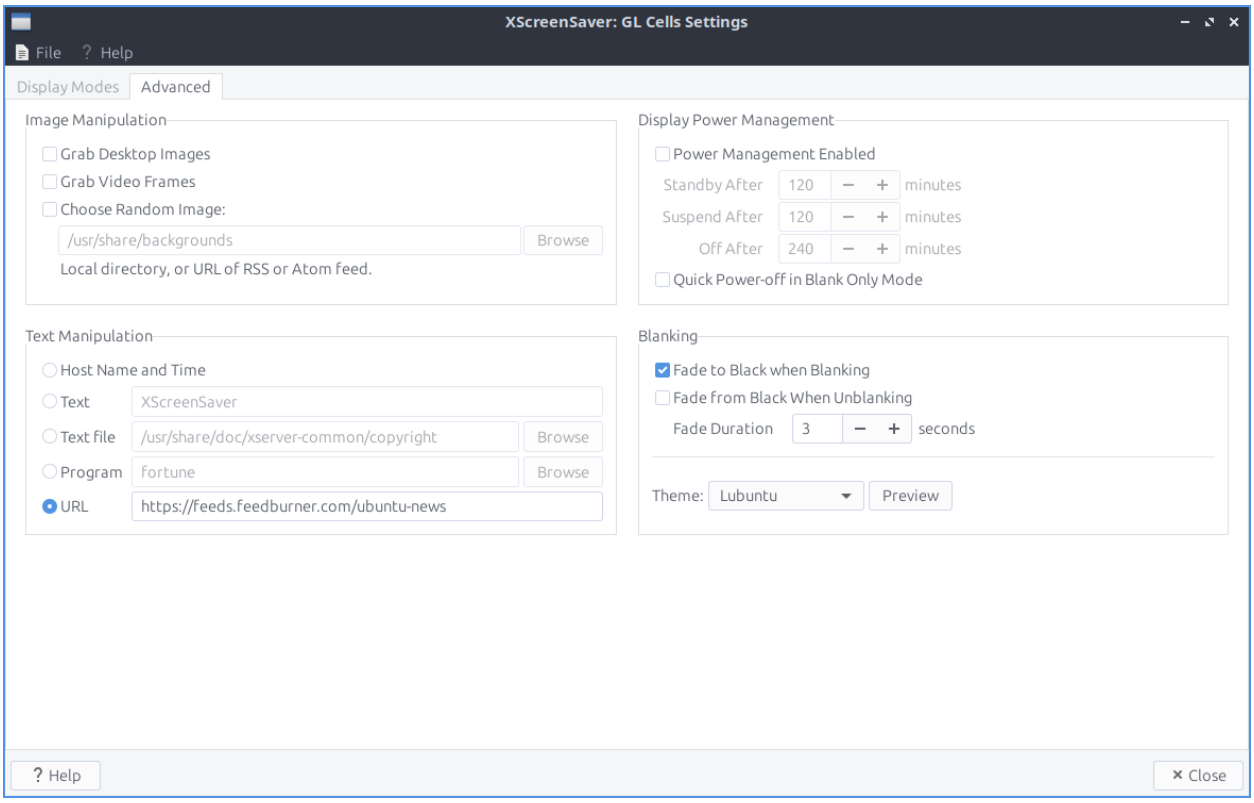
the preview of the screensaver. To preview a screensaver as when it would be activated press the Preview button. To see more settings for each individual screensaver press the Settings button.

To make the screen blank File ▸ Blank Screen Now. To lock your Screen File ▸ Lock Screen Now. If you want to kill the daemon File ▸ Kill Daemon. To restart the screensaver daemon File ▸ Restart Daemon. To restart xscreensaver File ▸ Restart Daemon.

If you try to open the screensaver settings without having the screensaver daemon running you will bring up a dialog if you want to launch it.

To change to get even more settings on your screensaver use the Advanced tab. To change images in your screensaver change settings in Image Manipulation heading. To choose to select from your desktop background check the Grab desktop images checkbox. To change a random background image check the Choose Random Image checkbox. To choose which path to randomly choose wallpaer from type the path in to the left of Browse button or press the Browse button and choose the path or rss feed.

To change turning the screen off and if to enter standby or suspend use the settings in Display Power Management. To enable xscreensaver to have power management check the Power Management Enabled checkbox. To change how fast to turn the computer into standby change the Stanby After field. To change how fast to suspend when idle change the Suspend After field. To turn the monitor off after an amount of time change the Off After field. To turn the screen off when blanking the screen check the Quick Power-off in Blank Only Mode chackbox.



To change the settings for how to make your screen blank change the Blanking settings. To have your screen fade to black when blanking check the Fade to Black when Blanking checkbox. To have your screen fade back in from screen blanking check the Fade from Black When Unblanking. To change how fast your screen fades change the Fade Duration field. To change the themeing on where you unlock and log back in after your screensaver change the

Theme drop down. To preview your theme press the Preview button.

Version

Lubuntu ships with version 6.08 of Screensaver

How to Launch

To launch Screensaver from the menu Preferences ▸ XScreensaver Settings or run

```
xscreensaver-demo
```

from the command line. The icon for Screensaver looks like purple night picture of the sky at night.

2.4 Chapter 4 Installing, Updating, and Removing Software

This chapter will teach you how to use GUI tools to install, update, and remove software. It also manages where your system downloads packages.

2.4.1 Chapter 4.1 Discover Software Center

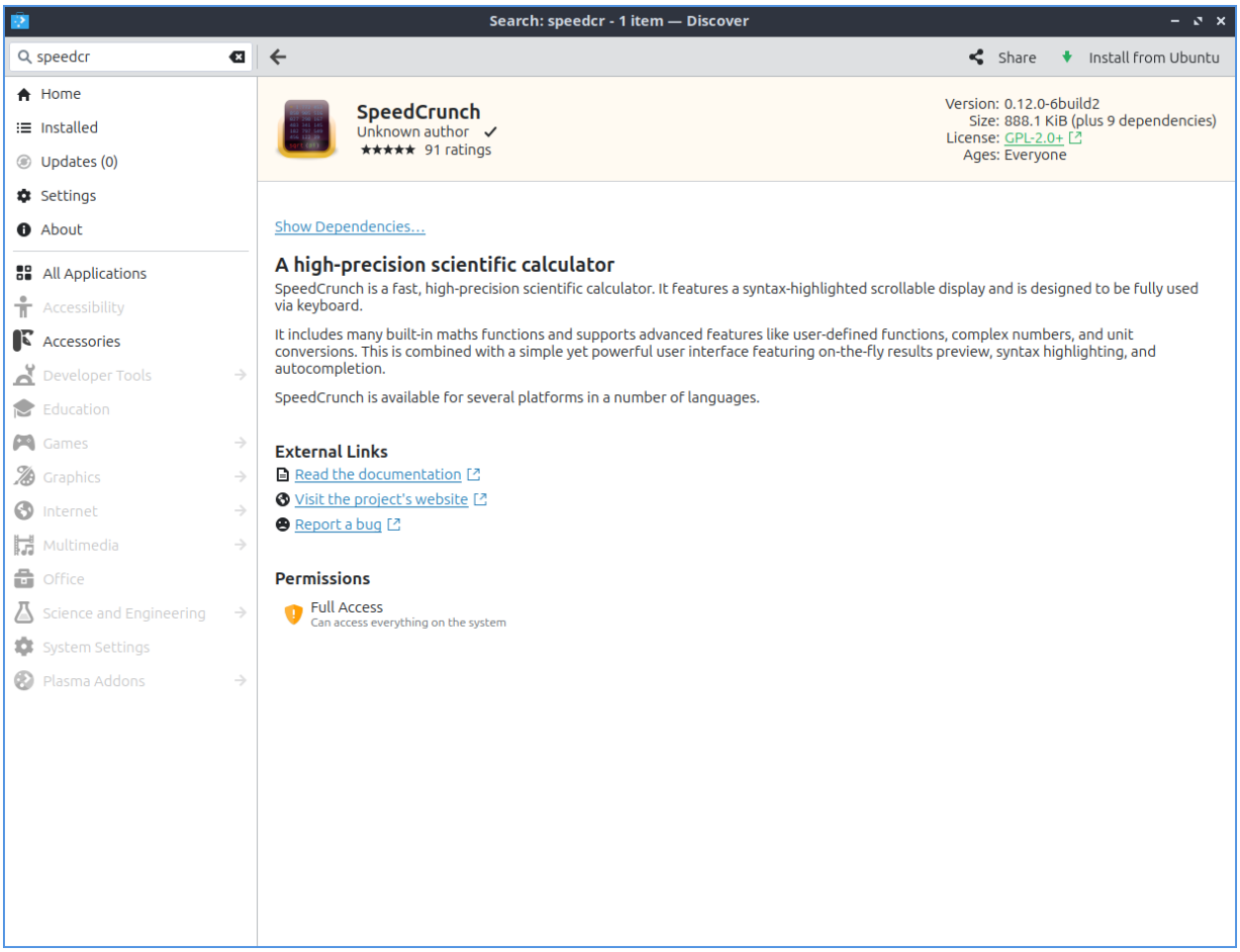
Discover allows you to install and remove programs and utilities. It has a simplistic interface making it easy to navigate and use. Discover however does not support command line applications.

Usage

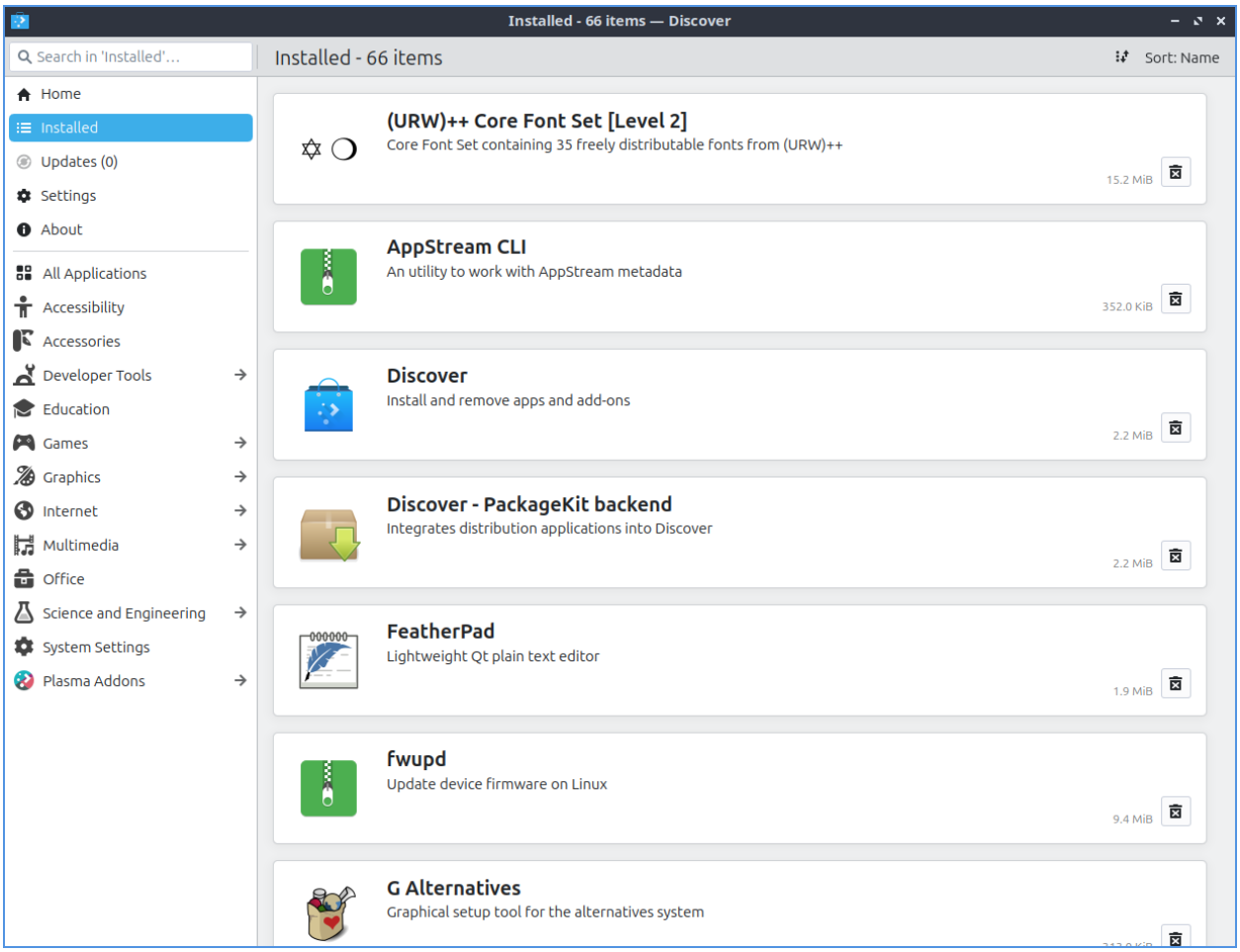
Discover allows you to search for applications by using the Search box or by pressing `Control + F`. To view featured applications press the Home button in the top of the bottom left hand corner. Left clicking on a program will give you a description of it. To install a program press the cloud with downward pointing arrow button that says Install when viewing a single package. When installing or removing software, you will be prompted for your password. You can also browse through different categories on the left clicking on the different categories. If a category has a ▸ next to it you can click on it and then will have subcategories. To go back up a little press the Back button in the upper left. In the results after selecting your program you are looking at you can select a screenshot and get a bigger view of the screenshot click on the screenshot. To change which screenshot you are looking at press the left and right arrow buttons near the screenshot. To exit from the screenshot press `Escape` or click not on the screenshot. To navigate back to the start with press the button that looks like a house.

Press the leftward pointed arrow button to moves back in your history.

To view more information on a program you want to install left click on a program to see more details on it. Towards the right will show a description of the program. To view user reviews of a program click on the text Show All Reviews. To show what else is needed for this program to work left click on Show Dependendencies. To install the program press the Install button. To view more screenshots press the left and right arrows next to the screenshots. To exit the user reviews press `Escape` or click outside the areas of reviews. To view ratings of thee program is shown in stars with how many ratings of the number of reviews next to ratings. Below the reviews there is information on the package such as the Version and License.

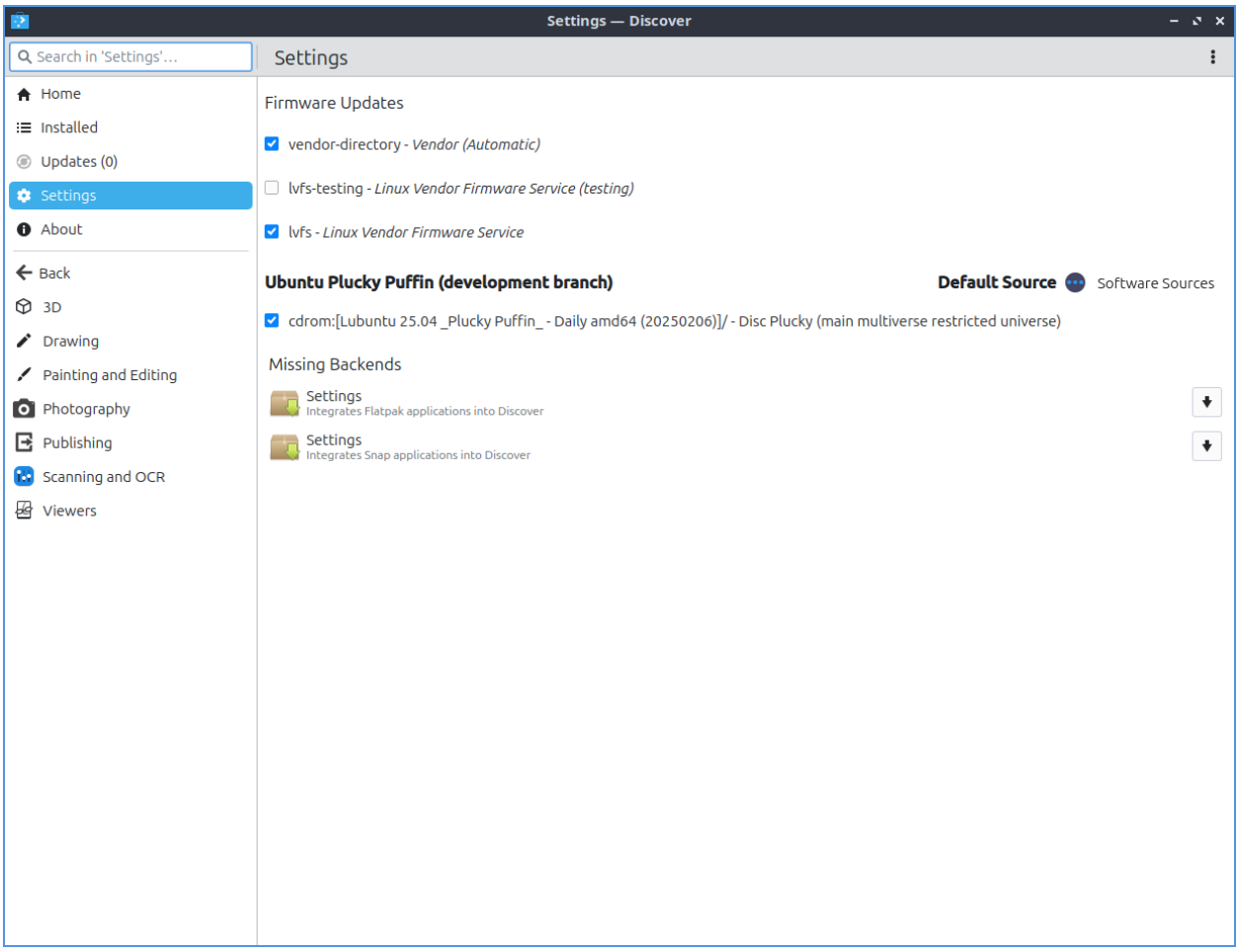


To remove software use the Installed tab or press `Alt +I`. You can browse your installed packages, search using the search bar (upper left corner), and the click the remove button to remove software by pressing the Remove button. To see how much space a package takes up look towards the bottom right hand corner which will also tell you how many dependencies this package has. If the package is a snap package in the top right corner it will say Snap. To view more details on the program left click on it. If you want to launch an installed program press the Launch button in the upper right corner.



In the upper right corner of discover you can have a Sort category to sort your search results by Name, Rating, Size, or Release Date.

To get to your settings on what software to use install use the Settings tab. To remove a source such as a PPA click the hidden red X button on the right hand side of to remove it. To toggle enabling or disabling a software source check or uncheck the checkbox next to that software source. To make snap packages the default version to use for discover press the Make default button next to Snap packages. To switch back to deb packages as default press the three vertical dots button and then select Make default .

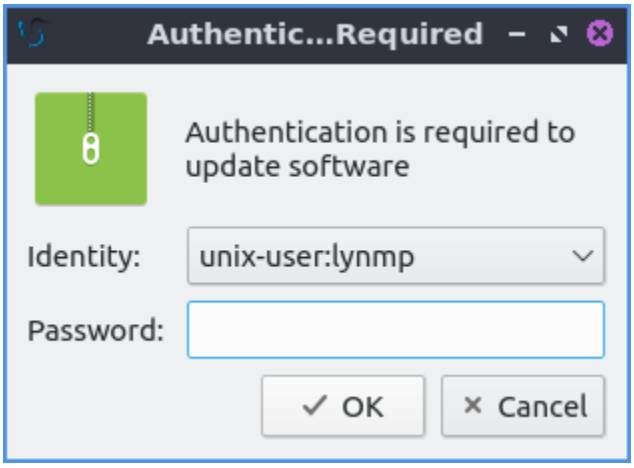


Updating

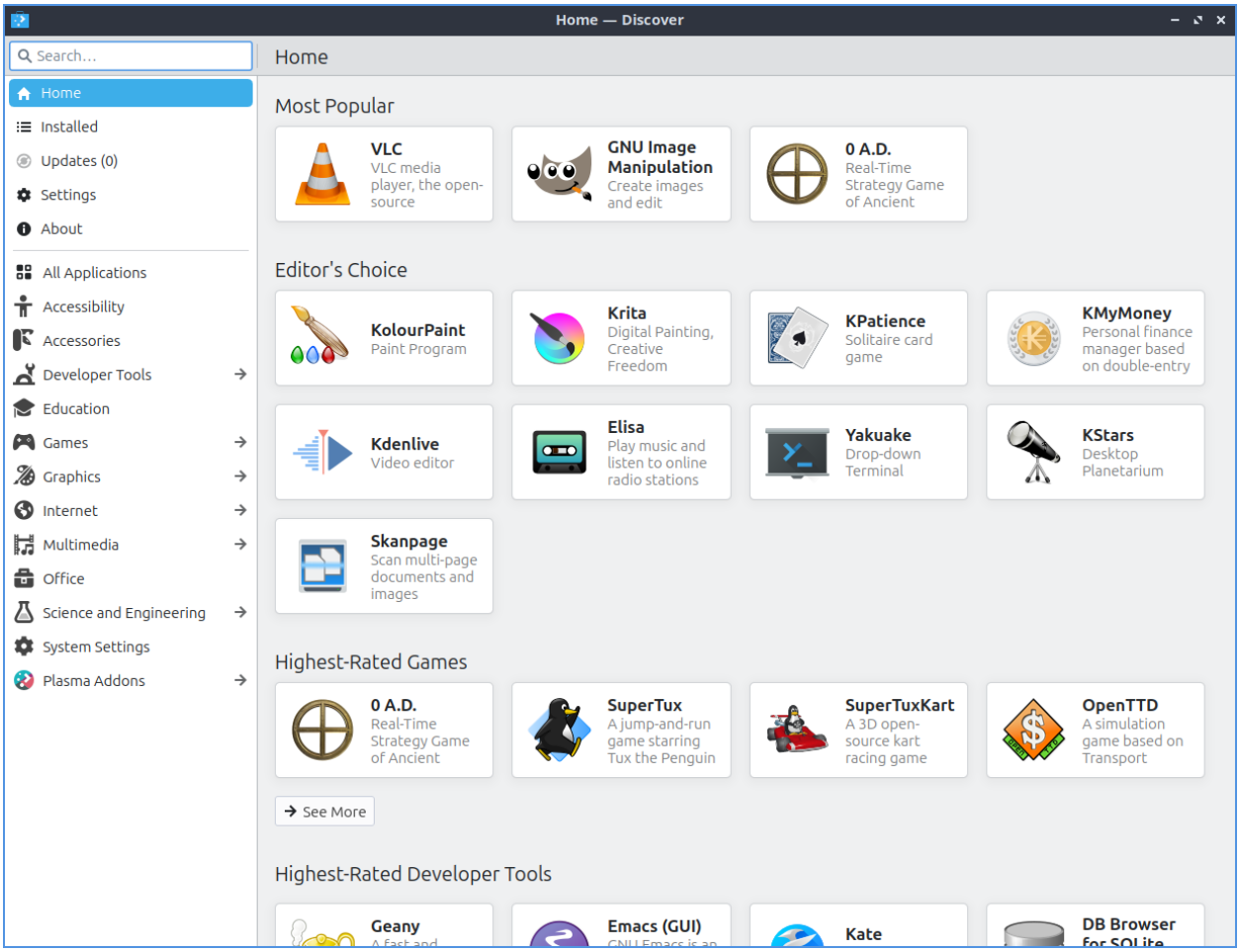
Discover allows you to update software using the Updates tab located on the bottom of the left column. You can click the Check for Updates button to check for updates manually. If you have updates that need to be installed instead it will say in orange Update(x) where x is the number of the packages needing updating or press `Alt+U`. When you select updates to install and have updates towards the upper left shows you the number of packages to update and the size of the download in parenthesis. To not select an update to install uncheck the the checkbox to the left of the package. To see the what version will be upgraded on your system will show the old version ▸ new version with how much the download size of the update to the right. To see what is changing in a package with the changelog double left click on the package and then read what has changed in the update. To view info about a package being updated left click on it and then left click More information .

To select all packages to update press the Select All button. To select none of the packages press the Select None button.

To check if there are anymore updates again press the Refresh button on the top bar. To finally update press the Update All button to install all updates and then a dialog will pop up you will need to enter your password and press the OK button to make sure you are the one installing these updates. If you need to restart after updating on your updates you will see the text The system requires a restart to apply updates and press the Restart button to restart your machine.


Authentic...Required
Authentication is required to update software
Identity:
unix-user:lynmp
Password:
OK
Cancel

Screenshot


Home — Discover
Search...
Home
Installed
Updates (0)
Settings
About
All Applications
Accessibility
Accessories
Developer Tools
Education
Games
Graphics
Internet
Multimedia
Office
Science and Engineering
System Settings
Plasma Addons
Home
Most Popular
VLC
VLC media player, the open-source
GNU Image Manipulation
Create images and edit
0 A.D.
Real-Time Strategy Game of Ancient
Editor's Choice
KolourPaint
Paint Program
Krita
Digital Painting, Creative Freedom
KPatience
Solitaire card game
KMyMoney
Personal finance manager based on double-entry
Kdenlive
Video editor
Elisa
Play music and listen to online radio stations
Yakuake
Drop-down Terminal
KStars
Desktop Planetarium
Skanpage
Scan multi-page documents and images
Highest-Rated Games
0 A.D.
Real-Time Strategy Game of Ancient
SuperTux
A jump-and-run game starring Tux the Penguin
SuperTuxKart
A 3D open-source kart racing game
OpenTTD
A simulation game based on Transport
See More
Highest-Rated Developer Tools
Geany
Emacs (GUI)
Kate
DB Browser for SQLite

Version

Lubuntu ships with version 6.7.4 of Discover.

How to Launch

To launch Discover from the menu System Tools ▸ Discover or run

```
plasma-discover
```

from the command line. The icon for Discover looks like a blue circle with a white downward pointing arrow.

2.4.2 Chapter 4.2 Managing Software Sources

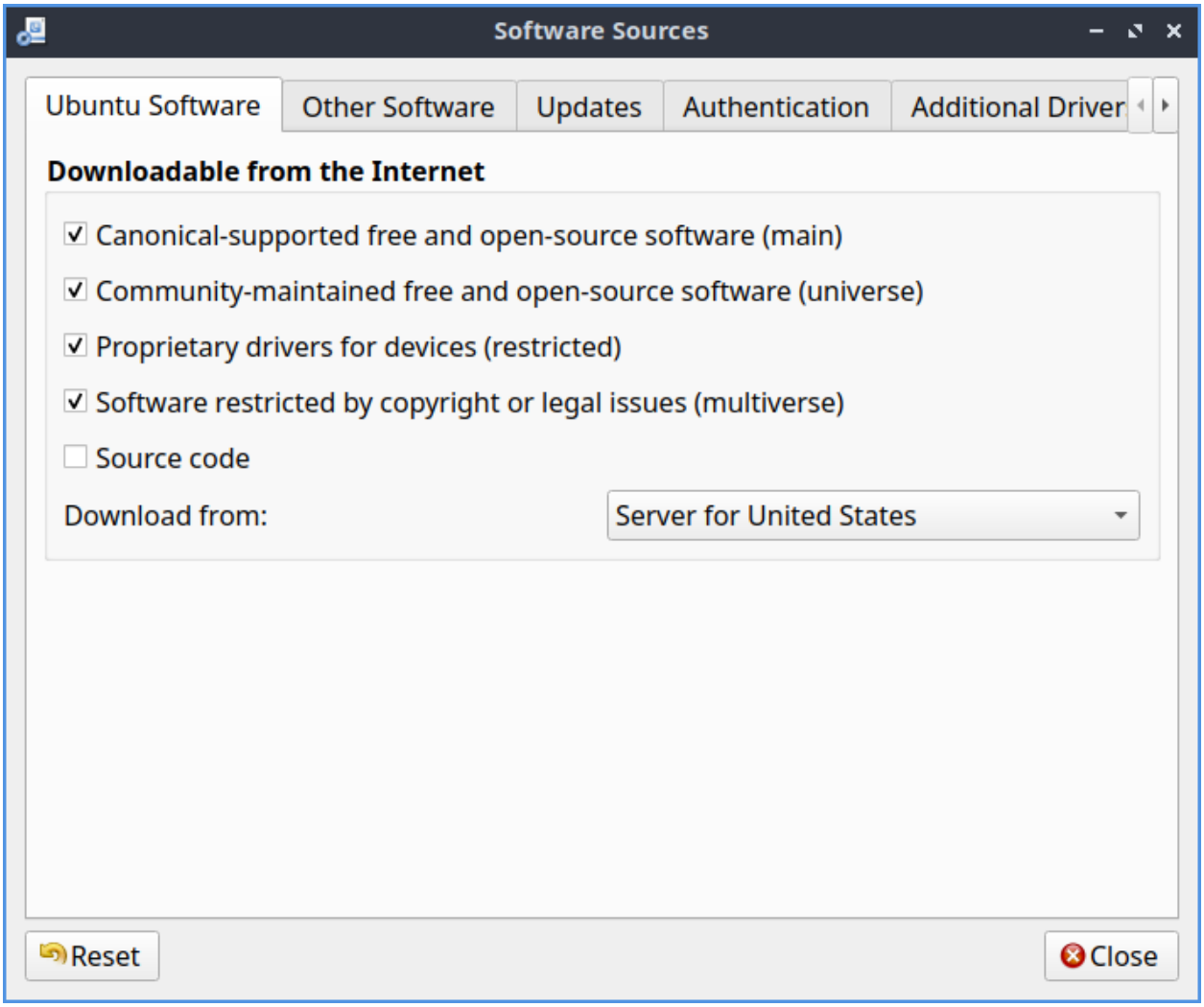
Occasionally you may need to change the setting of your software sources. This could involve:

- Changing update settings like update frequency, notification of new releases,
- Adding or removing sources such as PPAs
- Changing download server
- Installing proprietary drivers

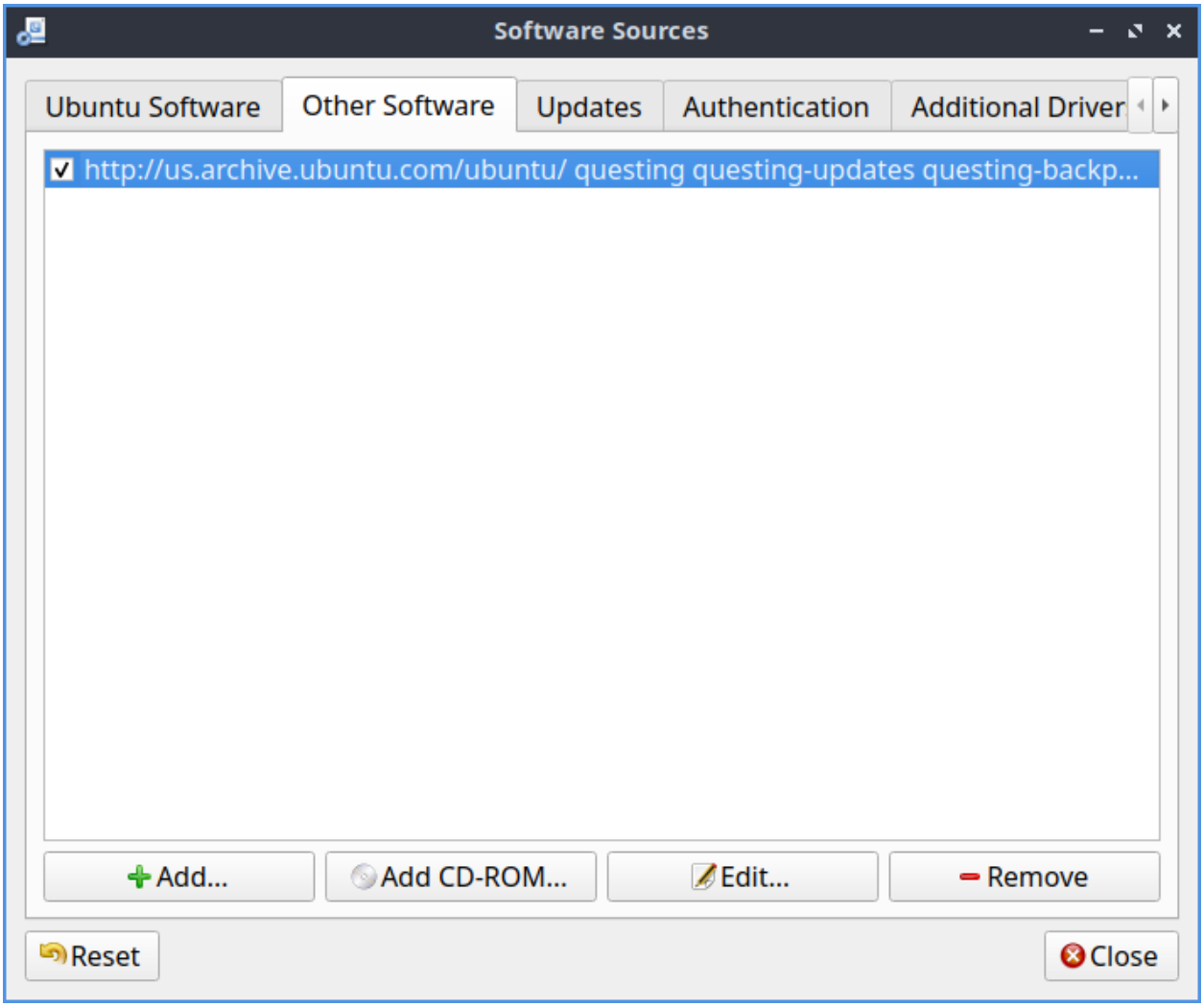
Usage

To use Software Sources you will need to authenticate with your password as this changes systemwide settings. You can navigate the Software Sources using the tabs at the top of the window.

The Ubuntu Software tab contains settings involving the downloading of software from Ubuntu repositories. Here you can disable proprietary software and select a download server among other things. To toggle enabling /disabling the proprietary drivers check/uncheck the Proprietary drivers for devices(restricted) checkbox. To toggle enabling/disabling other proprietary software check/uncheck the Software restricted by copyright or legal issues(multiverse) checkbox. To choose to be able to download source code of packages check the Source code checkbox. To change the mirror or where you download change the Download from drop down menu. The Main Server option downloads from the main Ubuntu server. There is an Other option with a large list of mirrors. The Mirror column lists a collapse list of mirrors to download from. To choose the fastest option press the Select Best Server. To see what protocol you will use to download packages from this mirror see the Protocol field.

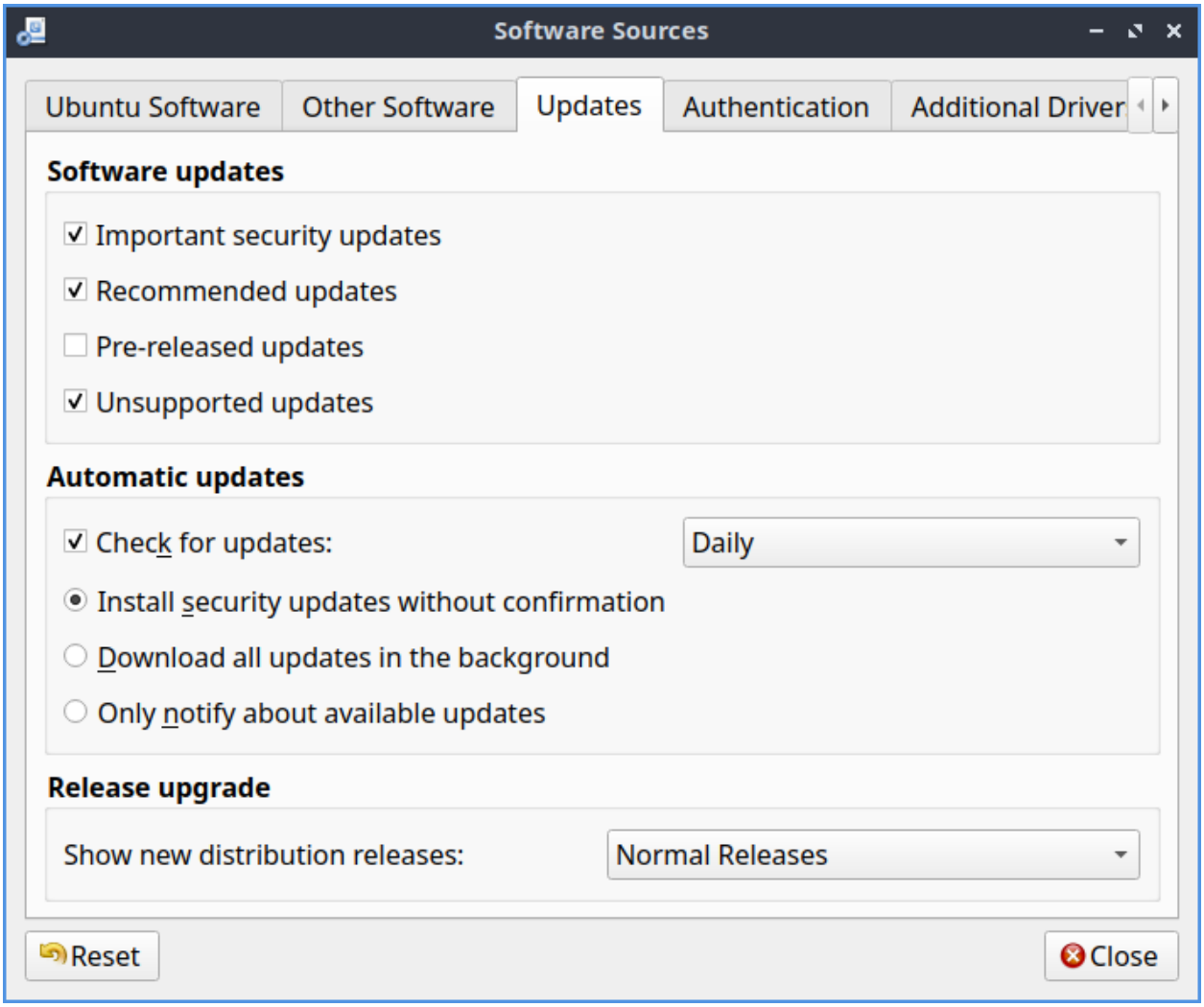


The Other software tab allows you to add, remove, or edit other software sources. Here you can manage remote repositories (PPAs) and CD-ROM repositories. To enable/disable a software source click the checkbox to the left of its name. To remove software from the list left click the Remove button. To add a third party source of software to your system press the Add button.

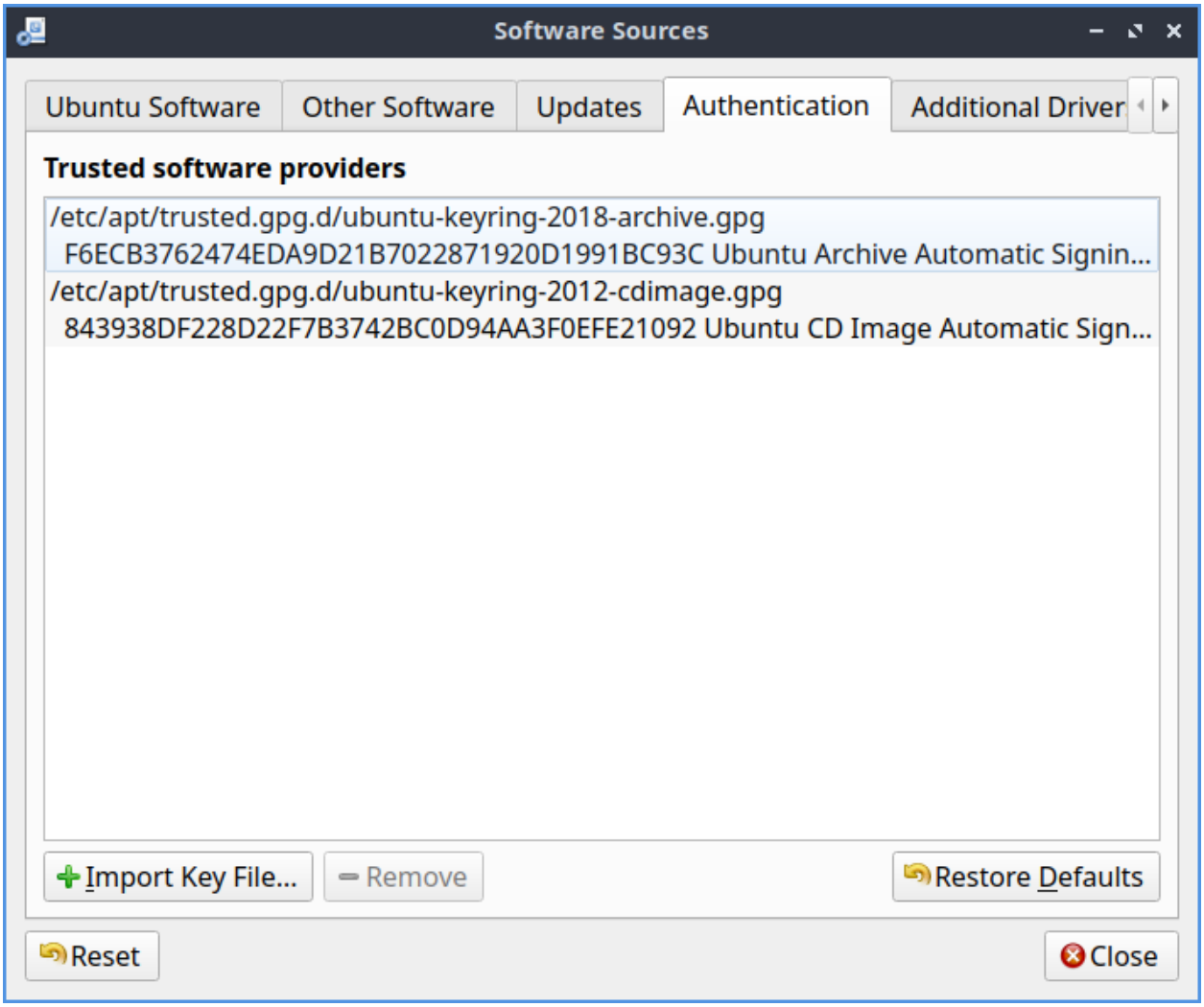


To change where a source is downloading software from press the Edit button. To change between downloading source and binary code use the Type menu. To change where the link to download software change the URI field. To change what distribution this source is for enter that in the Distribution field. To change what parts of the repository to use the Components field. To add a comment to yourself about a repository enter it in the Comment field.

The Updates tab allows you set which software updates you would like to subscribe to, in this case Important security updates, Recommended updates, Pre-released updates , and Unsupported updates. You can also set how frequently your system will automatically check for updates to the right of Check for updates and then select how often of Daily, Every Two days, Weekly, or Every two weeks. To not check for updates uncheck the Check for updates checkbox. To automatically install security updates press the Install security updates without confirmation button. To only notify about updates press the Only notify about available updates button. To start downloading all updates in the background press the Download all updates in the background button. You can also specify which releases you would like to be notified of in the Show new distribution releases drop down, Normal Releases, Long term releases only, or Never.



The Authentication tab manages key files which ensure your downloads are not compromised, basically ensuring you are download from a reliable source and your download has not been intercepted. The list of all keys signed on your system are listed under Trusted software providers. To remove a key you no longer want to have access to your system press the Remove button.



The Statistics tab lets you opt in to sending canonical statistical usage information. Submitting statistical data will improve the Ubuntu experience allowing developers to know which software you are downloading anonymously. We urge you to enable this feature but it is disabled by default as Lubuntu has an “Opt-in” philosophy. To actually Submit statistical information check the Submit Statistical information checkbox.

To reset changes to software sources press the Reset button. If you made changes and close software sources a dialog stating Your local copy of the software catalog is out of date and so press the Reload button to download a list of packages now from the new sources.

Proprietary Drivers

To install proprietary drivers use the Additional Drivers tab. Then press the check box to use the Using Driver Name radio button to input the proprietary driver for that checkbox. To not use proprietary drivers for something press the Do not use the device radio button. To apply these changes you will need internet access and will need to press the Apply Changes button. To revert back to your previous changes press the Revert button.

To launch this part of the program directly Preferences ▸ Additional Drivers with the icon that looks like a circuit board with pins on thee bottom.



Version

Lubuntu ships with version 0.119 of Software Sources.

How to Launch

To launch software properties from the menu you can Preferences ▸ Software Sources. In Muon Package Manager Settings ▸ Configure Software Sources. In Discover Software Center Settings ▸ Ubuntu (Default) ▸ Settings (Gear icon) ▸ Software Sources. From the command line run

```
lxqt-sudo software-properties-qt
```

The icon for Software Sources looks like a dark circle with three blue dots.

tags:PPA, software, download, sources, release, update, Discover, Muon, security,

2.4.3 Chapter 4.3 Lubuntu Update

Lubuntu Update is a simple program to upgrade your system.

Usage

To install an updates left click on the Install Updates button. To check for more updates press the Check for Updates button. Then a authentication dialog will need you to enter your password. After authenticating a progress bar and a terminal output on the bottom will appear. When the update is done on top will say Update installation complete.

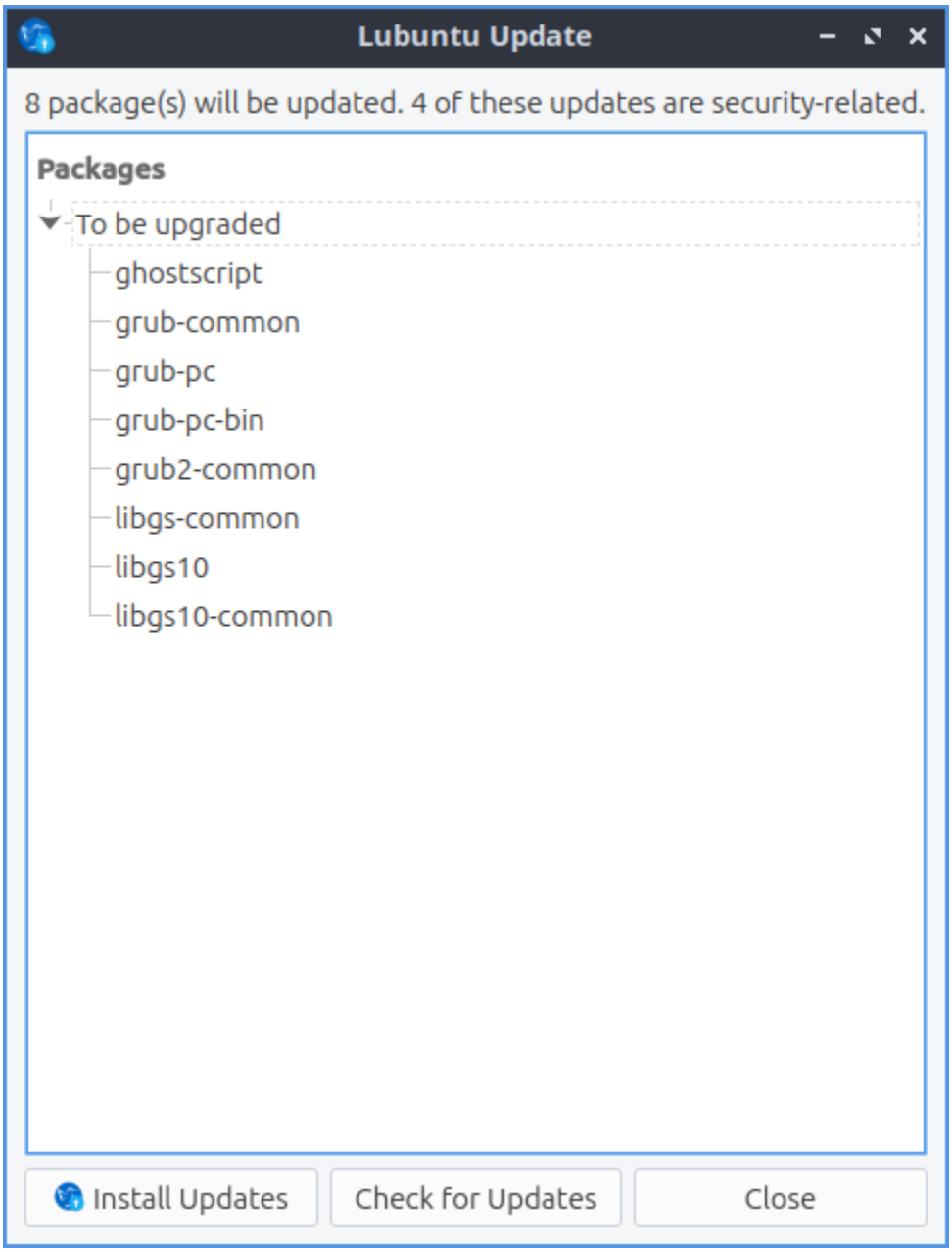
On top of the window shows the total number of packages under x package(s) will be updated. To the right you get how many are security updates on of these updates are security related. To see what new packages will be installed look under To be installed. To see what packages will be updated click on the To be upgraded section. To see what will be removed read under To be removed. To see what packages will be held back check under Held Back.

To see what will change on a update left click on the a category most likely Upgrade and see what list of packages will be upgraded. If there are any security updates a second column will appear that says Security. Next to each security update a green shield will show up to denote that upgrade is a security upgrade. To see further what dependencies are pulling in

the upgrade and to collapse them click the arrow next to the package to be upgraded and again to collapse the list. At the end of the upgrade Lubuntu Update will check to see if there is a new release.

If updates are needed an icon will show up in the system tray with the Lubuntu logo and left click it to bring up updates.

Screenshot



Version

Lubuntu ships with version 1.1.1 of Lubuntu Update.

How to Launch

To launch Update Notifier Preferences ▸ Lubuntu Update, press the Lubuntu Update from LXQt Configuration Center, left click the tray icon, or from the command line run

```
lubuntu-update
```

The icon for Lubuntu Update looks like a goldenrod circle with two circular arrows around the circle.

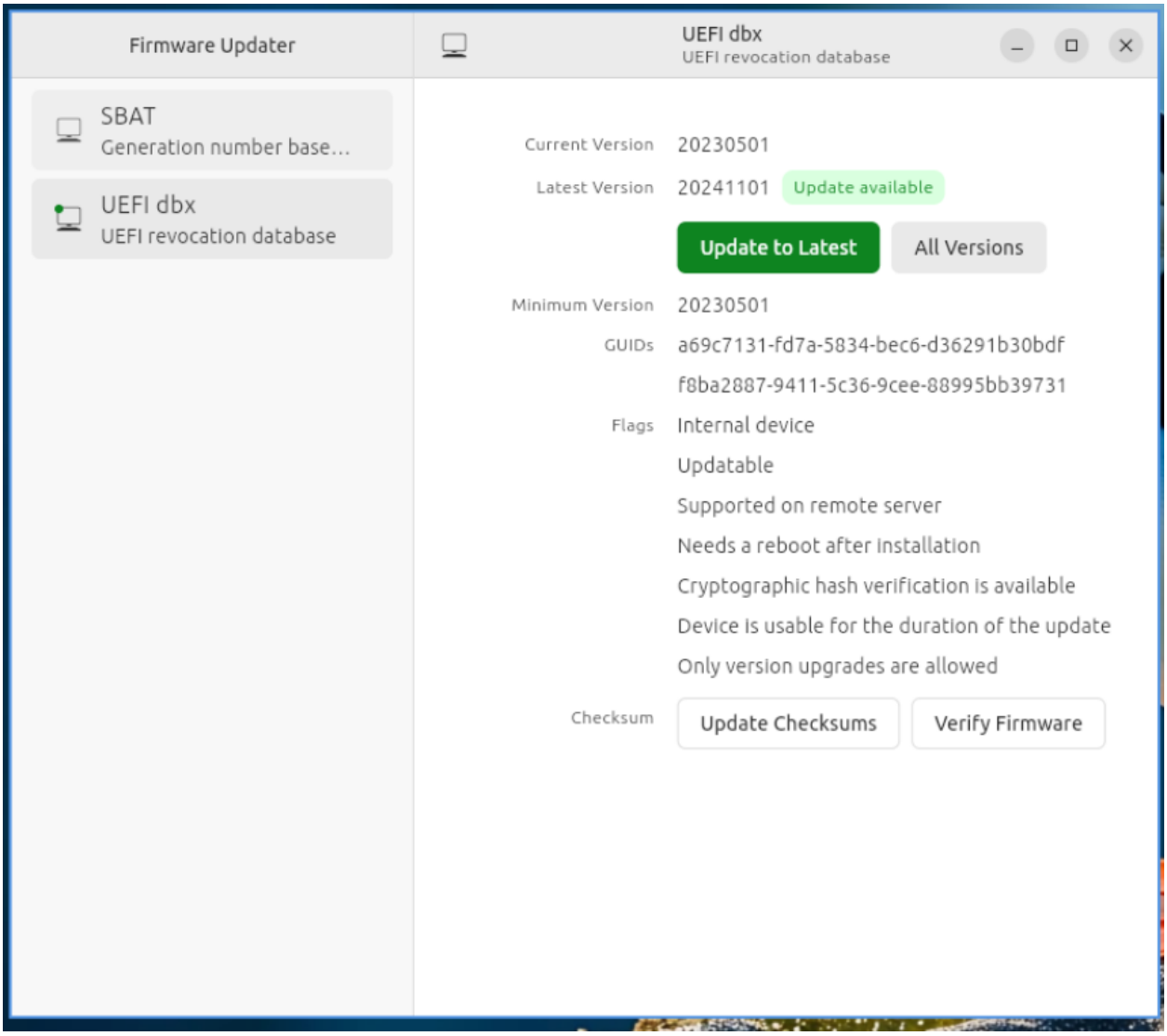
2.4.4 Chapter 4.4 Firmware Updater

Firmware Updater updates the firmware on your machine.

Usage

The left column of Firmware Updater shows which different devices have firmware that can be updated. To switch to a different device simply left click on it. To see the version of software that needs to be upgraded read the Current Version label. To see the vendor for your firmware view the Vendor field. To see flags about what happens when you have a update read the Flags field.

If nothing of your hardware can be found to be updated Firmware updater will say No devices found. To switch between multiple devices to update firmware left click on the list of devices on the column on the left hand side. The device you are currently looking at has what device on the top of the right hand column.



To actually update left click on the Update to latest button. Then confirm your update by left clicking the Update button. If your device needs to restart to update firmware you will get a restart now or later dialog. To restart now left click the Restart now button. To choose a later time to restart left click the Restart later button.

Version

Lubuntu ships with version 167 of firmware updater.

How To launch

To launch Firmware Updater System Tools ▸ Firmware Updater or run

```
firmware-updater
```

from the command line.

2.5 Chapter 5 Panel, Desktop, and Runner

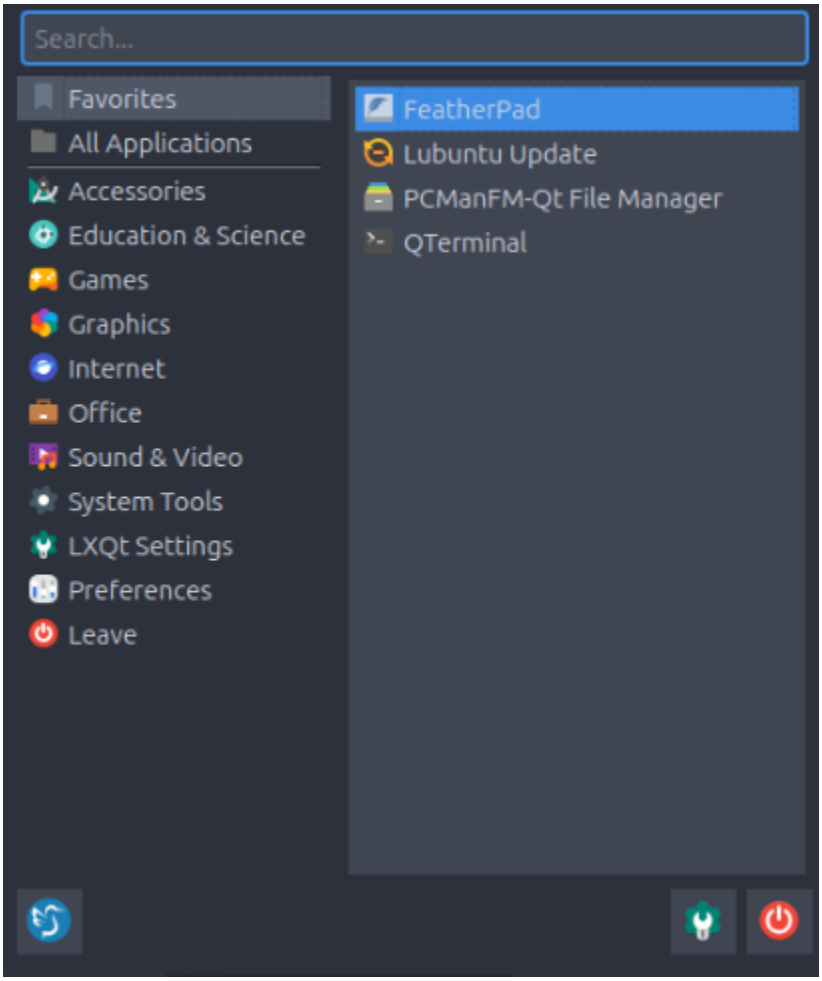
This chapter will teach you how to use the panel, desktop icons, the runner to launch applications, and window management.

2.5.1 Chapter 5.1 LXQt Panel

LXQt Panel is the bar situated at the bottom of your screen by default. The panel contains an application menu, a desktop switcher, a quicklaunch bar, a taskbar, a system tray containing applets, and a clock. The panel is highly configurable with a number of settings and plugins which is detailed in the Customizing section and also contains how to add or remove applets. To see information on widgets not installed by default see the Non-Default Widgets section.

Usage

In the bottom left hand corner of the screen is the fancy menu in Lubuntu 25.04 or later. To open this fancy menu simply left click on it. At the top you can search in the Search bar at the top. To the left if a bar of added favorites to your menu. To click through your menu for applications left click on the category names on the right. To view all of your applications left click on All Applications. To move a direction in the menu you can press and arrow key to move in that direction. To jump to the top of the menu press `Page up` and to jump to bottom of the menu press `Page Down`. To open an about dialog about LXQt press the Hummingbird button in the bottom left hand corner of the menu. To open LXQt Configuration Center left click the light bulb in front of a gear button towards the bottom right of the menu. To bring up a shutdown menu left click the Power button. To actually shutdown Power ▸ Shutdown. To restart your computer Power ▸ Reboot. To lock your screen Power ▸ Lock screen. To logout of your session Power ▸ Logout. To close the menu left click on the menu on the panel with the panel open or press `Escape` to close the fancy menu.

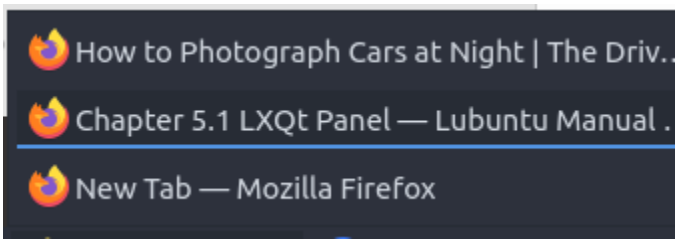


To add a program to your desktop from the fancy menu right click and select Add to desktop. To add a program from the menu to your favorites right click on it and select Add to Favorites. To remove an item from your favorites right click on it and select Remove from Favorites.

The quick launch bar allows you to conveniently launch your file manager (PCManFM) and web browser (Firefox) by left clicking on the program. If you right click on the icons in quick launch on something like Firefox will have items for each program. To add a program to quick launch open the menu and find it there and drag it down onto the panel. To move an item on your quick launch to the left right click the icon and select Move left or press `Control` and drag the icon to the left. To move an item to the left right click the icon and select Move right or press `Control` and drag the icon to the right. Another way to reorder items on quicklaunch is to hold `Control` and drag and drop to the desired position. To remove an item from quick launch right click on the icon and select Remove from quicklaunch. To refresh your quicklaunch right click and select Refresh. To show your desktop press the blue show desktop button between quick launch and the taskbar. To see all your windows again press the blue show desktop button again.

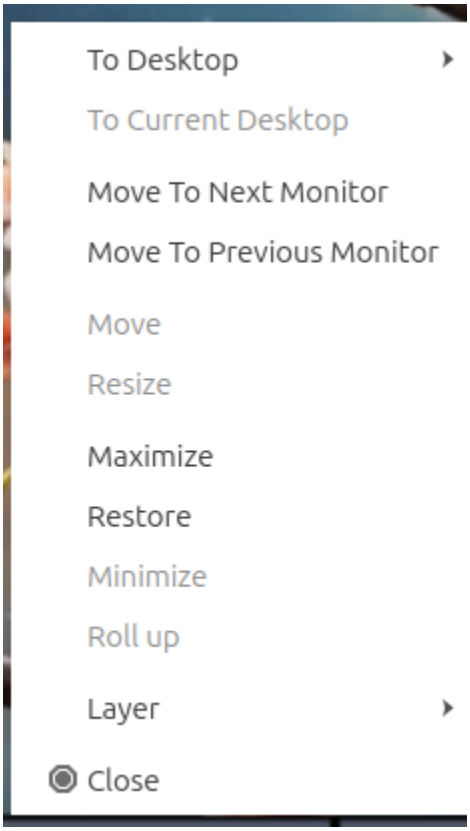
The taskbar lists the windows you currently have open. To bring one of these windows to focus simply left click the button with icon and name on the task bar. If you have multiple of the same window left clicking will open the group, allowing you to select between the different windows by left clicking. If you want to close a group of multiple windows you can right click the group and click Close group. To see a list of all the windows in a group mouseover the group of windows on the taskbar. If you want to close one window out of a particular group left click to bring up the single window and then right click on the window and select Close.

To reorder windows or groups of windows on the taskbar left click and drag the windows or group.



On a single window on the taskbar to move it to a different desktop right click To Desktop to move the window to the desired desktop. To move a window to your current virtual desktop right click on the window on your taskbar and select To Current Desktop. If you have multiple monitors you can right click and select Move to next monitor to move a window to the next monitor. To move a window back to a previous monitor right click on the taskbar and select Move to previous monitor. Right clicking and selecting Move lets you drag the application around to the desired point on the desktop. The resize option from the same window lets you resize the window you right clicked on. Right click and select Maximize on a window to maximize it. Right clicking on window Restore will return a window back to its original size. To minimize a different window from the task bar you can minimize by right clicking on the window on the taskbar and selecting Minimize. Right clicking Roll up on a window will make the window only your titlebar.

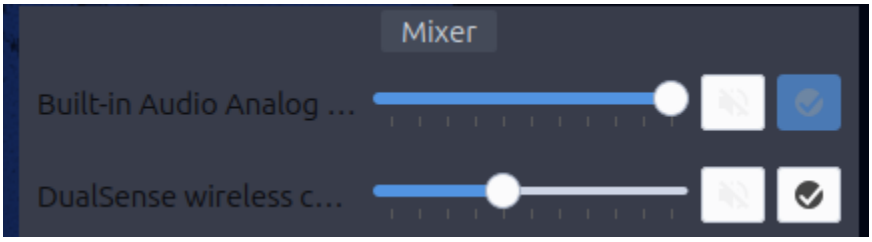
Right clicking Layer on the taskbar will allow you to have move a window Always on top, Normal, or Always on bottom. Finally to close a window with right click on the taskbar and select Close will close the window or you can simply middle click on the window. If you middle click on an item in the taskbar you will close the window. If you try to close a program that is not responding you will be asked if you want to end the task. To move items around on the taskbar into a particular order left click and drag them to the desired position.



The removable media applet will allow you to manage your remove flash drives and external hard drives and to unmount them without data loss on your system. To unmount such devices left click on the panel that looks like a disk and then click the eject button that is an upward pointing arrow. To open your removable media click on the removable media applet left click on the removable media to open the external media in your file manager.

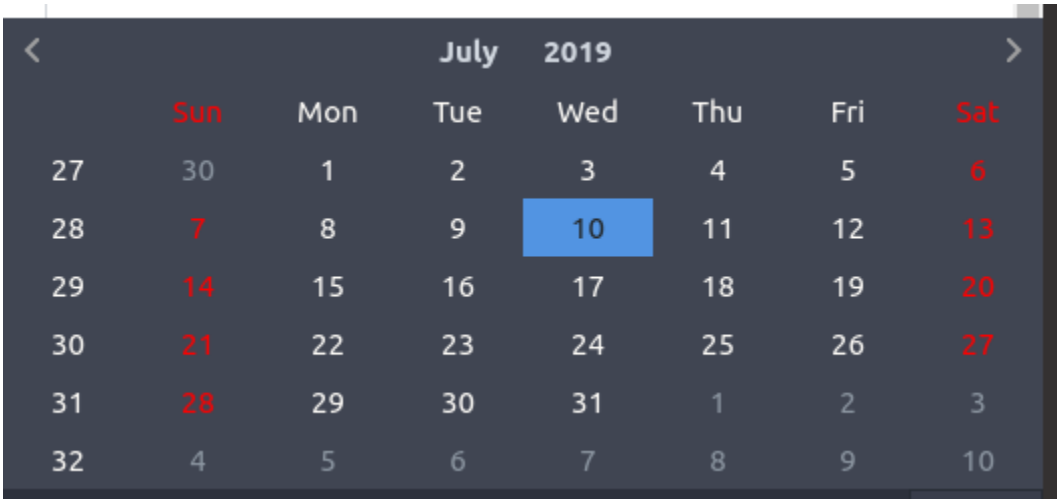


In the system tray there there are multiple widgets. To see more on how to use nm-tray which manages network in the tray see chapter 3.1.5. Also included is Qlipper which to see how to use view how to view chapter 2.4.5. Other Programs you install can also place a tray icon here as well. With the volume applet you can change the volume by using the mouse-wheel with the mouse over the speaker icon or left click the speaker icon and drag the volume left and right or press `Up arrow` or `Down arrow`. To mute the volume with the speaker to the right of the device you wish to mute or middle click on the volume applet. If you have multiple devices that can play audio the device name with its volume will listed. To see what the current volume is you can hover the mouse over the volume applet. To open pulse audio volume control you can press the Mixer button. To set an audio device as default left click the **:guilabel:`checkmark`** button next to the device you want to set as default. To close the volume applet press the `Escape` key or left click off of the volume applet.



Next over to the right is the status notifier applet with a white bell. To view notifications you may have missed while away from the keyboard left click on this applet. To bring up a particular notification left click on that notification from the list and it will pop up like notifications on your screen. To clear all notifications click the button that says Clear All for notifications. If you want to not be bugged by too many notifications right click on the system tray and select Do Not Disturb

To the far right is a clock, you can left click the clock to bring up a pop up calendar window. To go to the next month on the calendar press the rightward pointing arrow. To go the previous month on the calendar press the leftward pointing arrow. Another way to change months on the calendar is to use the mousewheel. To change the month on a calendar to list all months in the year left click on the month and then select the month you want from your menu. To change the year on your calendar left click on the year in the calendar and then use `up arrow` or `down arrow` or the mouse wheel to select the year. Too see what week of the year it is read the number on the far left of the calendar.



If you want time zone information on your panel you can middle click on the clock. If you added multiple time zones middle clicking shows all of them. If you added many different time zones you can scroll between them with the scrollwheel.

If you are on a laptop the panel will also show the battery meter to show how much power you have remaining. To view your current charge level mouseover the battery meter and it will show if your battery is charging by mousing over. To view information about your battery left click the battery icon. The field Energy Full Design shows how much power your battery held when it was brand new. The field Energy Full shows the current full charge of your battery in your current health.The Energy Now shows how much power is in your battery. The Technology field shows what kind of battery you have.



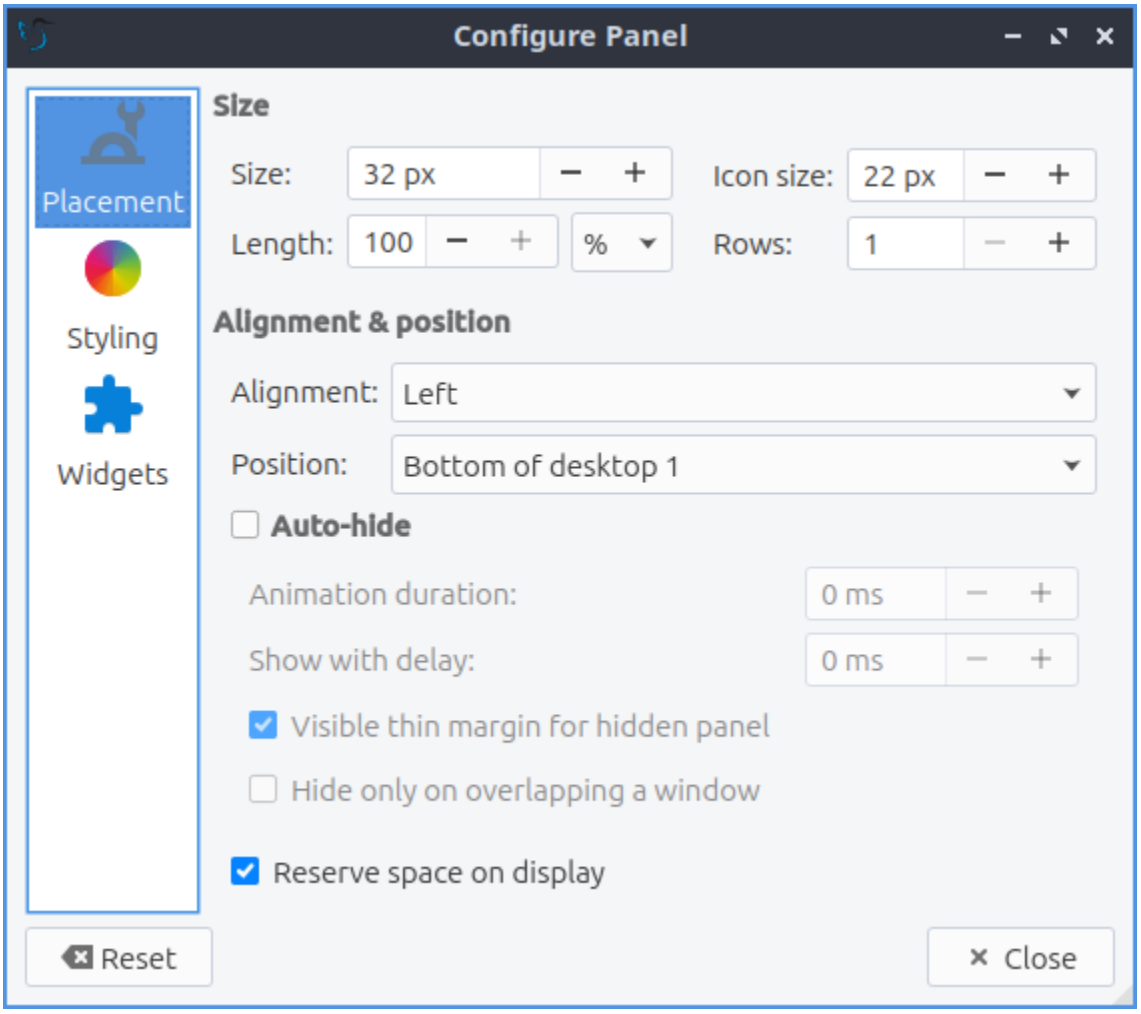
As mentioned below, the panel is highly configurable and you can customize it by right clicking

at various places. If you do not want to mess up your panel right click on the panel and select Lock This Panel checkbox and do the same again to unlock your panel.

Customizing

To change many panel settings right click not on the main taskbar and select Configure Panel. To close each of these windows you open by right clicking press the `Escape` key.

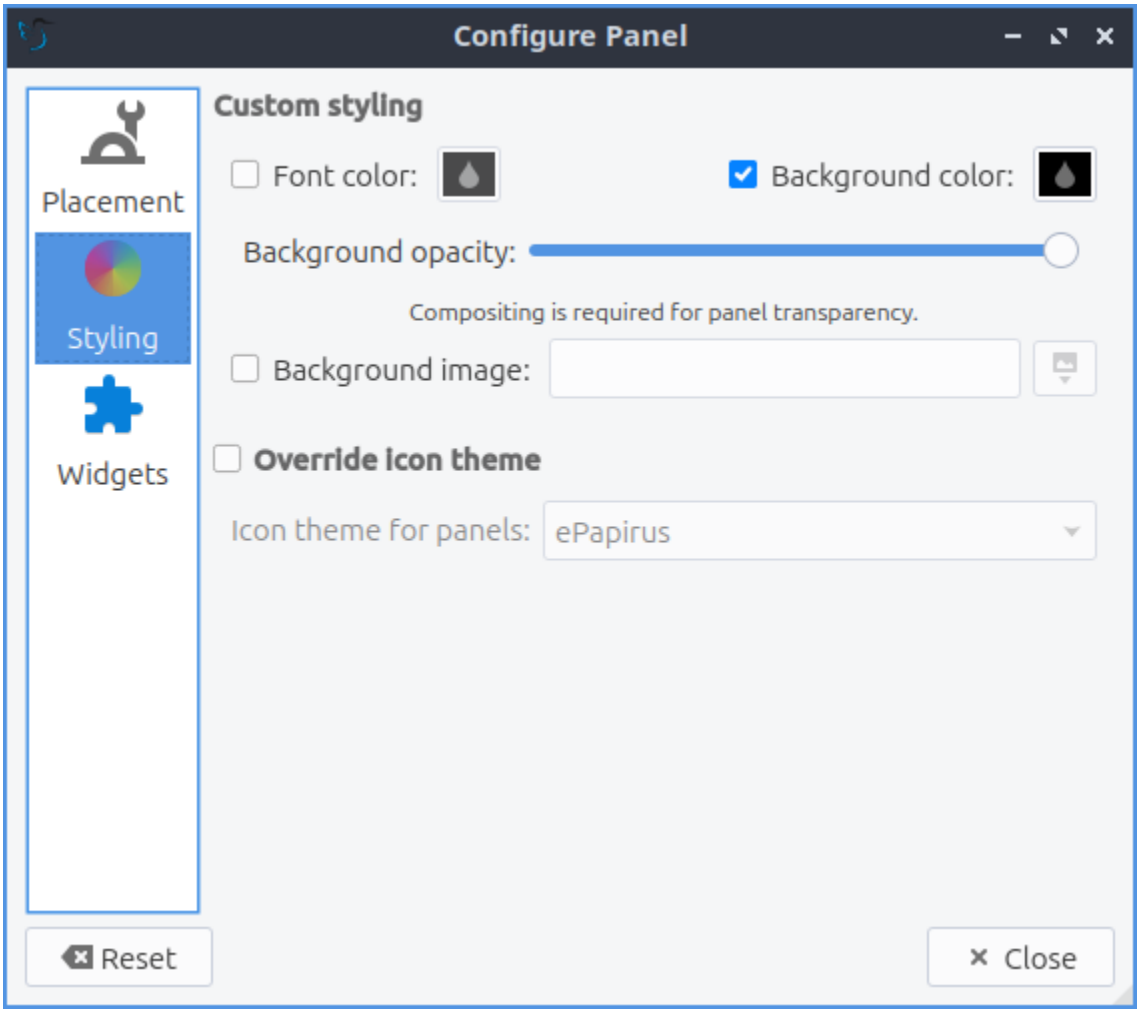
The Placement tab has settings for where the panel is. The Size menu lets you increase or decrease the width of the panel. Length has two fields the one is either px or % is to change the length of the panel in pixels while percent is a percent of the entire screen size that changes if you change resolution. The first is the number of pixels or percent of the screen you want the panel to cover. The Icon size makes the size of the icons bigger or smaller on the panel. If you want multiple rows in your system tray and taskbar make the Rows field. To move the panel there is a drop down menu of Position that can move it to the side of the screen you want. The Alignment drop down menu lets you set the alignment of the panel on your screen. Keep in mind changing the alignment will not change anything if your panel takes the entire screen. To change the position of your panel use the Position field to move the panel on your screen around. If you have multiple monitors the Position field will have different options for moving the panel onto different monitors.



If you want to autohide the panel check the Auto-hide checkbox in panel settings. To change how long the animation takes to show or hide the panel change the Animation duration field.

To show how long your panel will appear when it comes back after hiding in milliseconds change the Show with delay field. To show a little of the panel visible when the panel is autohidden check the Visible thin margin for hidden panel checkbox. To only hide the panel when the panel overlaps a window check the Hide only on overlapping a window checkbox. To have the space for the panel not be used for anything else check the Reserve space on display checkbox.

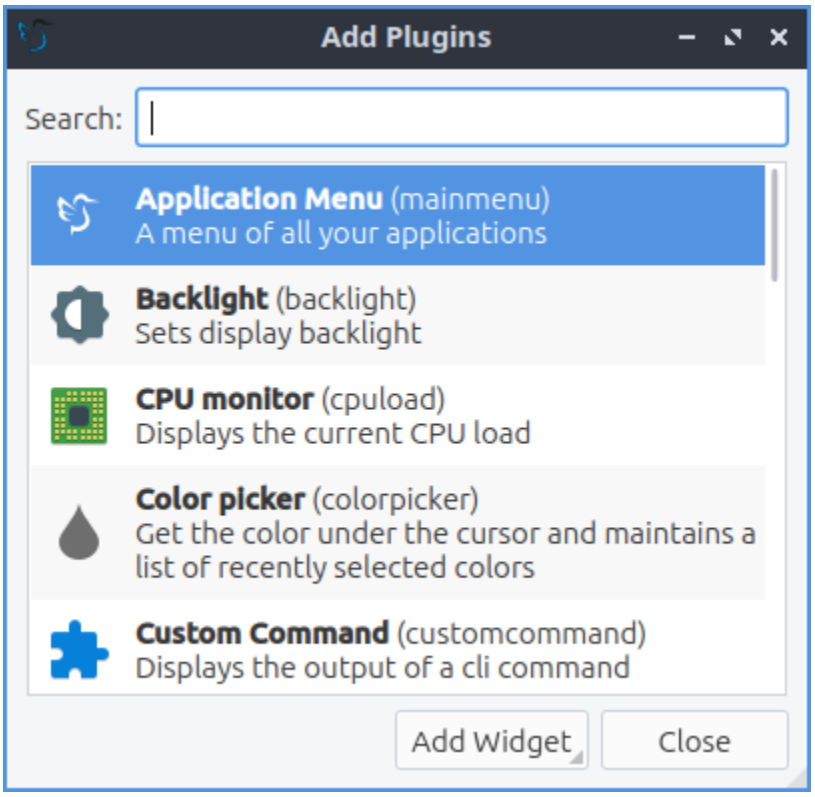
To change the appearance of the panel use the Styling tab. To change to a custom font color press the Font color checkbox. Press the dropper button to bring up a widget to choose the custom color. The checkbox for Background color sets a background color custom for the background of LXQt-panel and the dropper brings up how to select which color. If you want to change how transparent the background color is change the Background opacity slider however to change this you need to have the Background color checkbox checked. To add an image to your panel background press the checkbox Background image and press the the dialog button on the right to choose your file.



The checkbox for Override icon theme lets you choose a non system default icon theme for LXQt-panel. The dropdown Icon theme for panels lets you see what that icon theme from the dropdown list. If you do not like your changes to the system you can press the Reset button to reset changing to before trying to customize the panel.

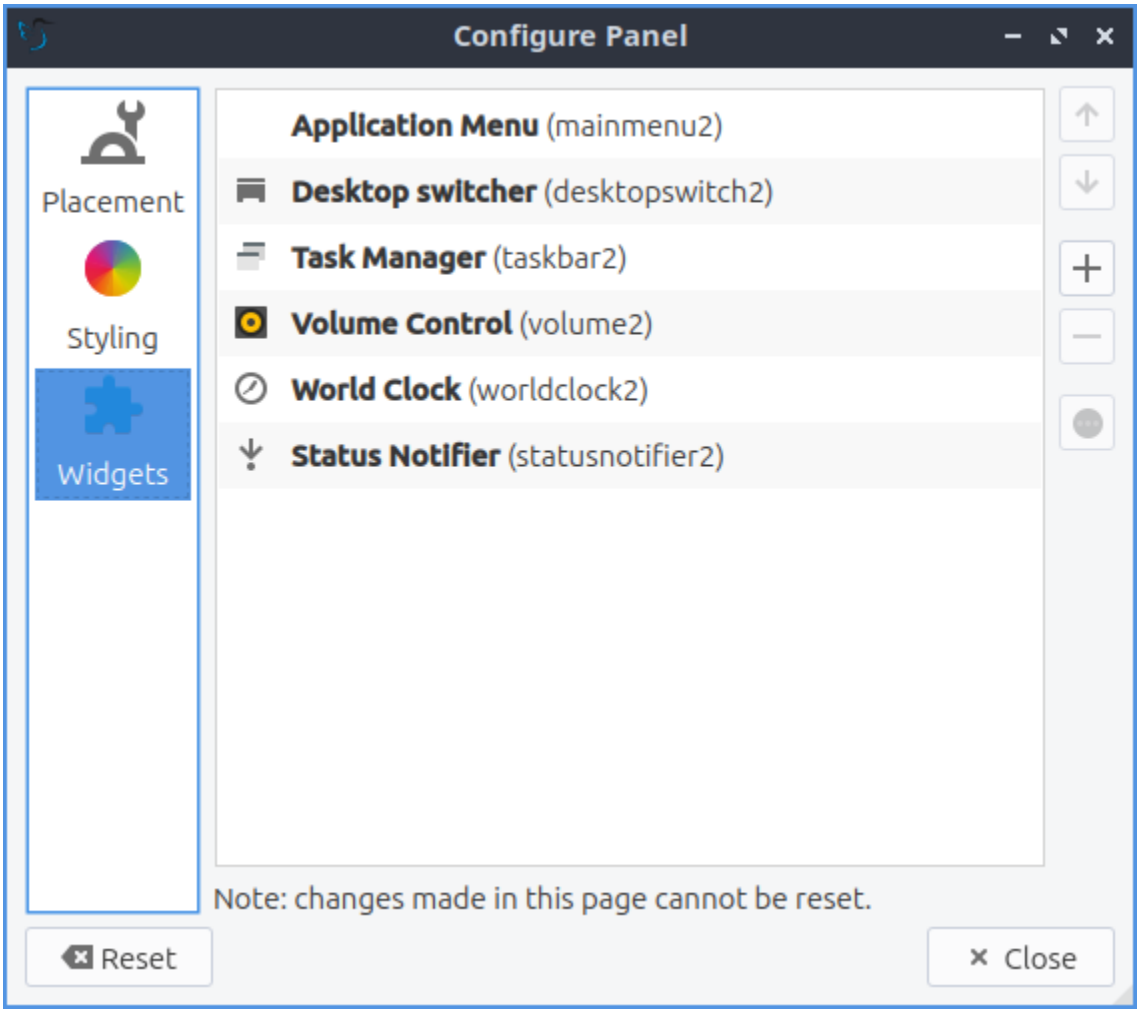
The Widgets tab lets you change the widgets or individual items on the panel and their configuration. You can also get to this directly by right clicking on the panel and select Manage

Widgets. To move an applet down on the order of presentation press the down arrow button while the up arrow button moves the applet up on the order of presentation. To add a new widget click on the widget on the panel configuration screen and press the + button and select the widget you want to add some of which are not on the panel by default. To search for a specific widget type in the Search field. To remove an applet you do not want you can press the - button. The dark circle with three blue dots button has the settings for certain but not all of the applets in the panel for example the Application menu and Task manager are customizable but Quick launch and Show desktop do not.

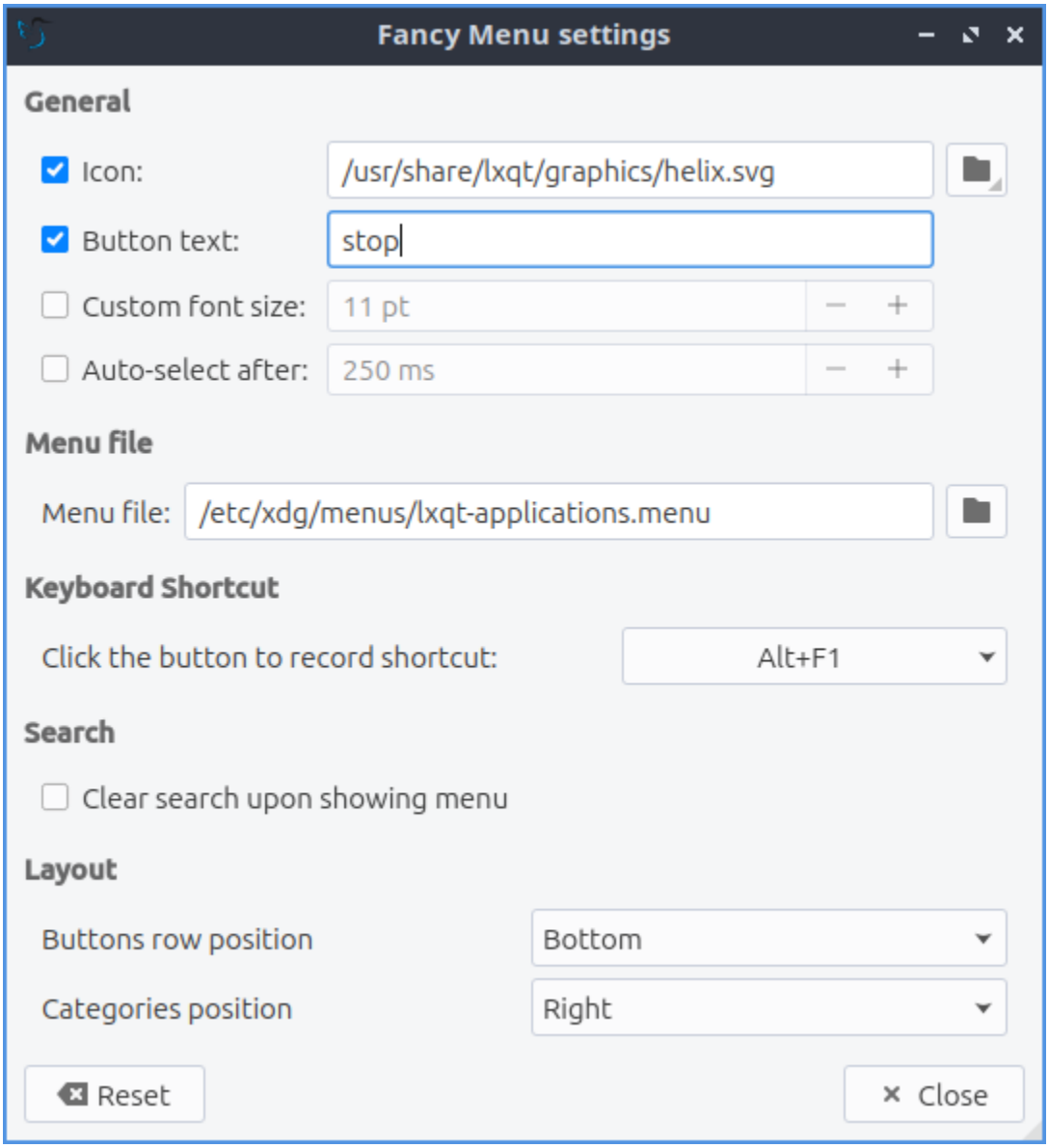


Shipped widgets not enabled by default:

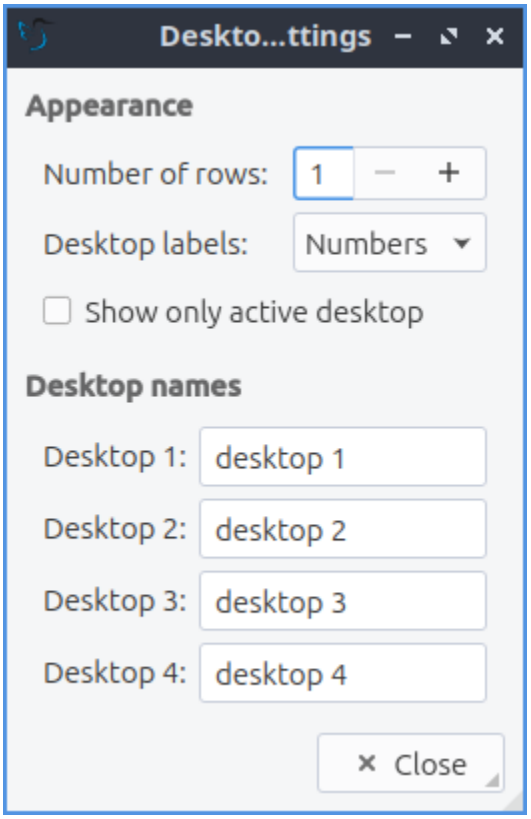
- Backlight
- CPU monitor
- Color Picker
- Custom Command
- Directory Menu
- Fancy Menu
- Keyboard State Indicator
- Panel DOM Tree
- Qeyes
- Sensors
- Spacer
- System Statistics



To change settings with fancy application menus right click on the menu icon and select Configure “Fancy Application Menu”. To set a custom icon for your fancy menu left click the Icon checkbox. To choose a custom icon for your menu enter the path in the field right of Icon or press the Folder button. To change the font size for your menu check the Custom font size checkbox and then select the font size on the right. To have the fancy menu automatically switch to a menu category after you mouseover check the Auto select after checkbox and then choose how long to wait to autoselect. To choose a different application menu type the path in the Menu file field or press the Folder button to change to select a path for the menu. To set a keyboard shortcut to show menu left click on the Click the button to record shortcut and press the keyboard shortcut you want to show up. To have search cleared each time you open the menu check the Clear search upon showing menu checkbox. To switch the buttons for shutdown, configuration center, and about buttons change the Buttons row position menu. To change which side the categories menu is on change the Categories position menu.

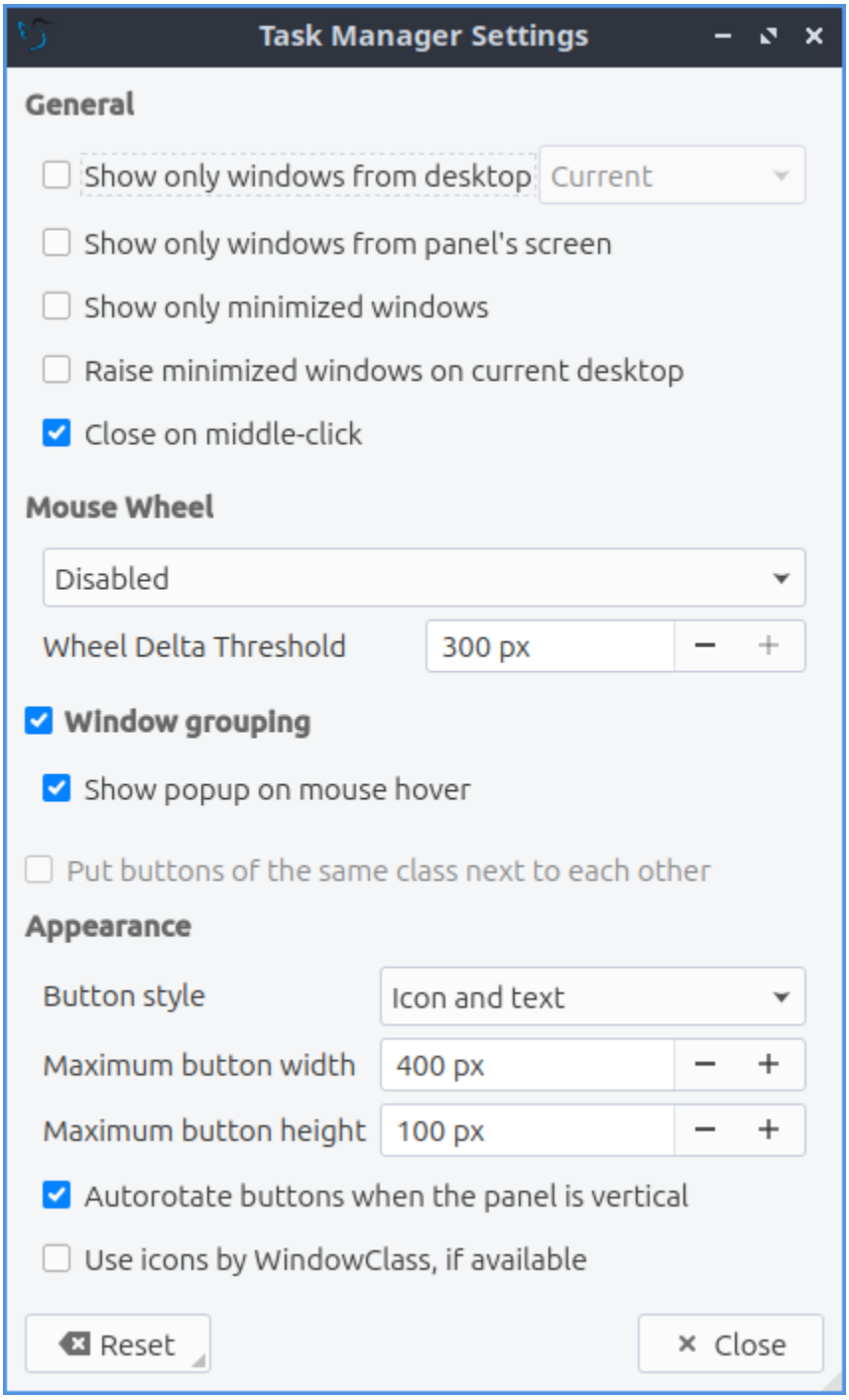


To customize the Desktop switcher right click on the desktop switcher Configure Desktop Switcher or press the three dots button. To change the number of rows on your desktop change the Number of rows field. To change how desktops are labeled change the Desktop Labels field. To only show the current desktop check the Show only active desktop checkbox. To change the name of each desktop enter a name under Desktop Names.



To move an item in quick launch to the right right click on the icon and select Move right. To move an item in quick launch to the left right click on the icon and select Move left. To remove an item from quicklaunch right click on the icon Remove from quicklaunch. Another way to move an item on quicklaunch hold `Control` and drag thee quick launch to where you want. To add an item to quick launch click and drag it down from the main menu.

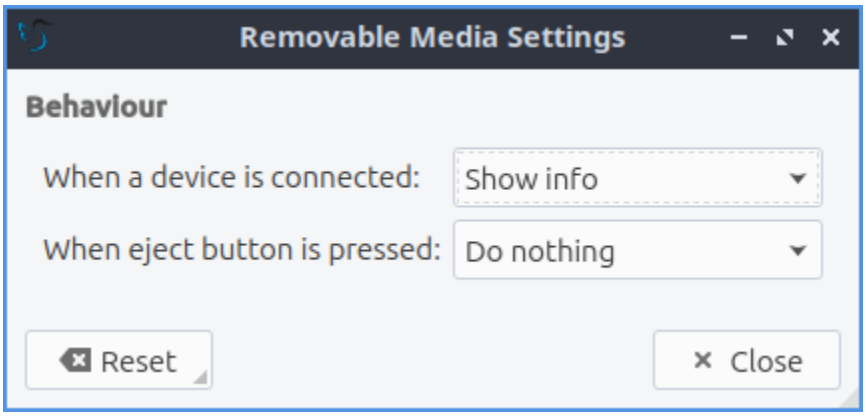
To change options for your task manager or taskbar open the panel configuration dialog select Task Manager (taskbar) and click the three dots button. The checkbox for Show only windows from desktop will only show windows from a certain desktop and will have a drop down that will default to the current desktop but can also be shown. To hide windows on a different screen check the Show only windows from panel's screen checkbox. To have the taskbar only show minimized windows check the Show only minimized windows. To raise minimized windows on your current desktop check the Raise minimized windows on current desktop checkbox. To close windows on a middle click check the checkbox Close on middle-click. To cycle windows by scrolling with the mousewheel check the Cycle windows on wheel scrolling checkbox. The Window grouping checkbox will group multiple windows of the same program into a group of windows. The checkbox for Show popup on mouse hover will allow you to hover the mouse over the window group to show them off. If you want all windows of the same program next to each other check the Put buttons of the same class next to each other checkbox.



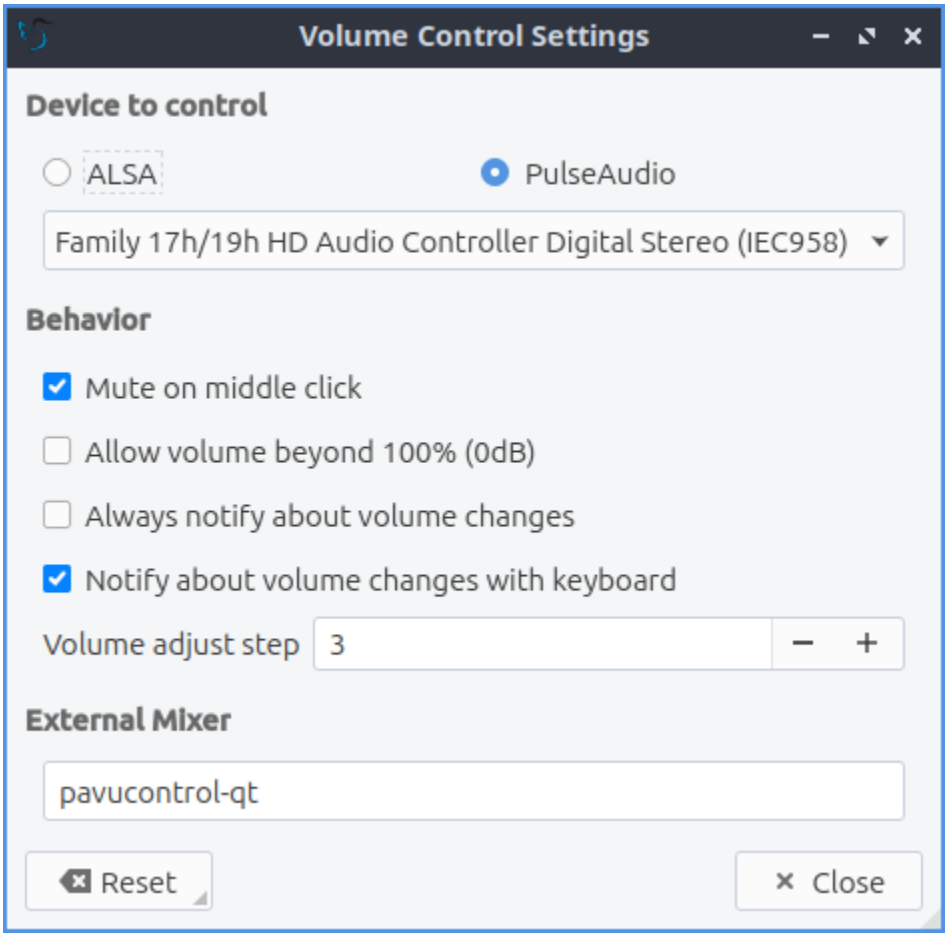
To change the look of your taskbar in the same window as above the appearance section the Button style menu will change whether to show only the icon or the icon only for only the icons. To show window and the text label of the program Icon and text. Icons only will work best with a panel aligned to the left or right side of your screen. To have only the text on your taskbar and no icons select Only text. To change the maximum width of a button change the Maximum button width which is measured in pixels to how wide on maximum a button could be. To change how high a button will be when a panel is vertical change the Maximum button height field. To reset your changes to this window press the Reset button.

The settings for Removable Media is able to be opened up is right click the applet Configure

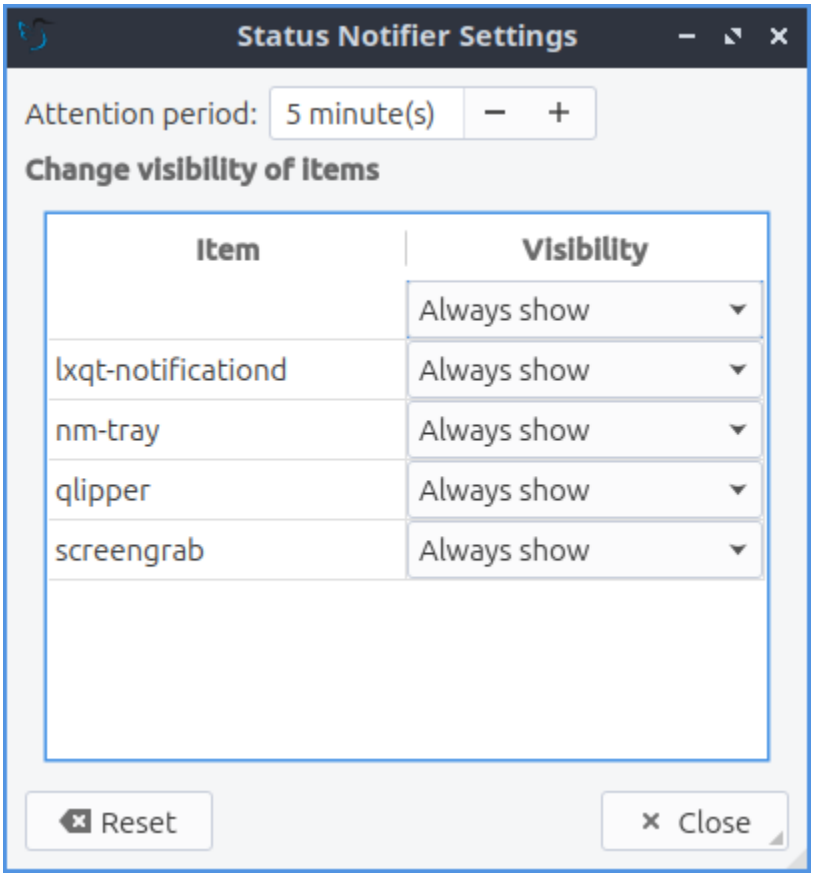
“Removable media” from When a device is connected you can select and Show info, Popup menu, or Do nothing. If you want to reset the setting for this press the Reset button. To change what to do when the eject button is pressed on optical drives change the When eject button is pressed menu.



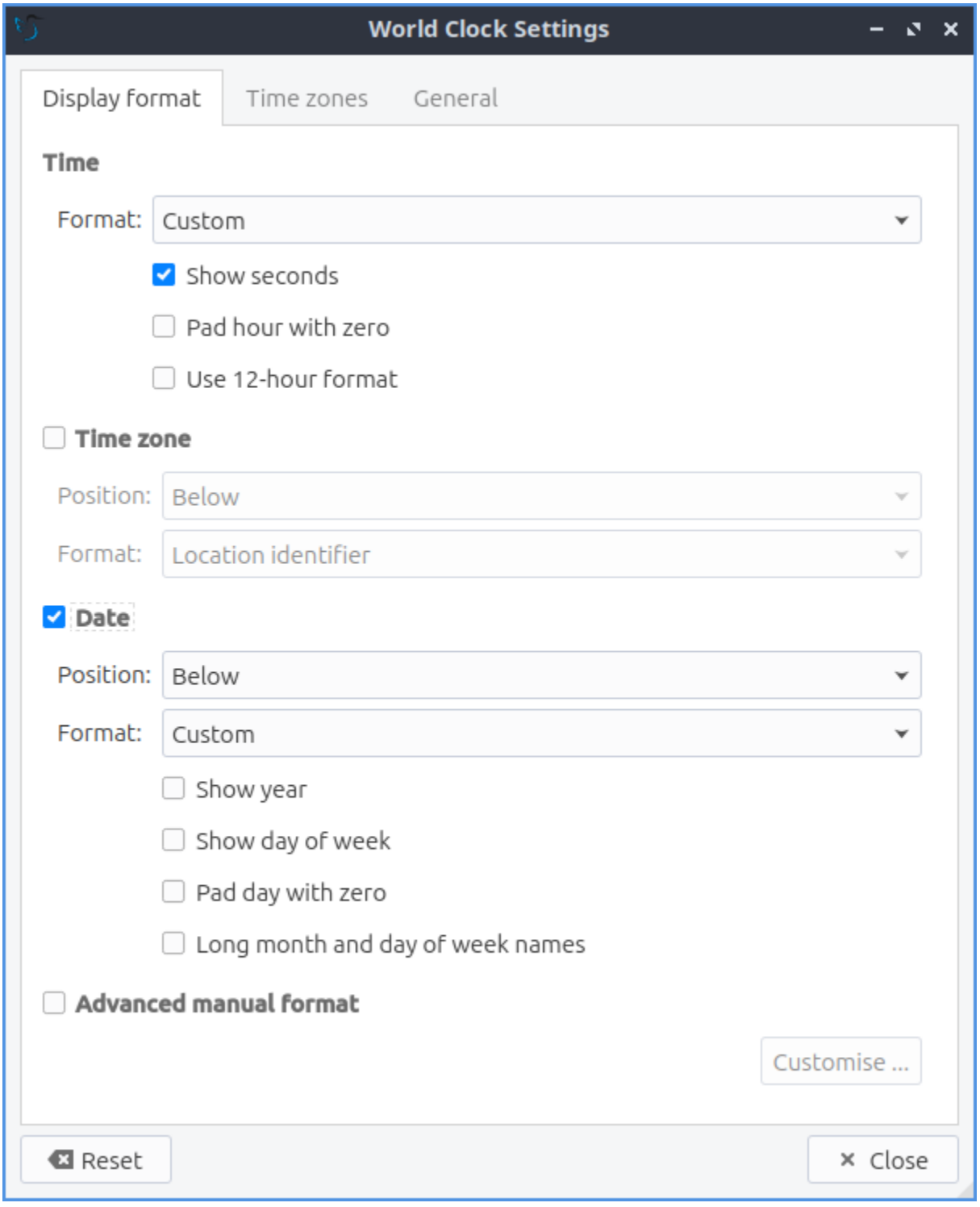
To configure the volume applet right click on the volume applet and select Configure “Volume Control”. To change which audio output to have the applet control change the dropdown at the bottom of the Device to control box. To switch to changing sound settings for only ALSA press the ALSA button. To switch back to changing pulse audio settings press the PulseAudio button. To toggle muting on middle clicking check the Mute on middle click checkbox. To toggle having to click to bring up the volume applet check the Show on mouse click checkbox. To allow your volume in software to be over 100 percent check the Allow volume beyond 100% checkbox however this will cause distortion. To always show notification on volume changes check the Always notify about volume changes checkbox. To notify about volume changes via keyboard check the Notify about volume changes with keyboard checkbox. To change how what percentage your volume meter changes use the Volume adjust step field. To change what you use as your mixer type the command in the External Mixer field.



To change settings of your Status Notifier press the ... button in the list of applets or on the status notifier applet left click on Options. To reverse how items appear in the status notifier check the Reverse the order of items checkbox. To change how long to have something visible you will autohide will have change the Attention period. To hide or autohide notifications from a particular application is to change the app settings under the Visibility column. To choose to hide a notification automatically select Auto-hide. To have a notification always have its notifications hidden select Always hide. To have notifications of an application always be shown select Always Show.

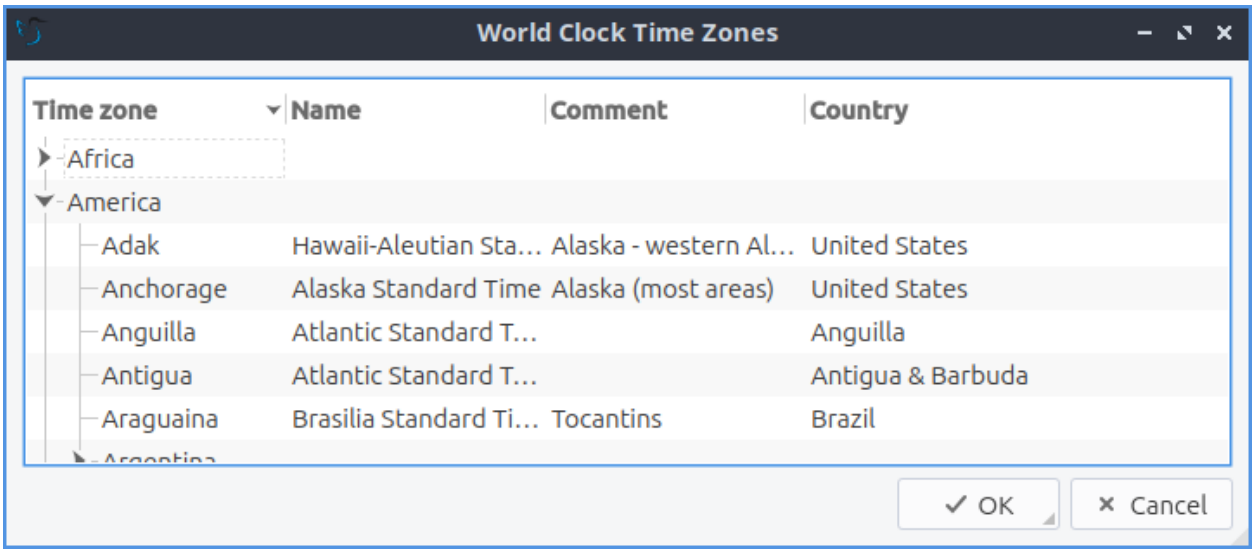


To change the settings on your clock right click on the clock and then Configure World Clock. To change settings on how your clock shows stuff use the Display format tab. The Format drop down menu allows you to change how the clock shows. To select a short format allows you to have a preselected short format which shows a 12 hour format and am just telling you what time it is. Selecting long from the menu will show you the time with seconds and the time zone. To have a customizable clock message select custom and then checkboxes to show seconds, pad the hours with zeros or to use a 12 hour format. The Time zone checkbox will show your your time zone. The Position drop down says where to put the time zone on the clock. The Format field changes how the time zone is displayed on your clock. To change how the date appears change the Format field.

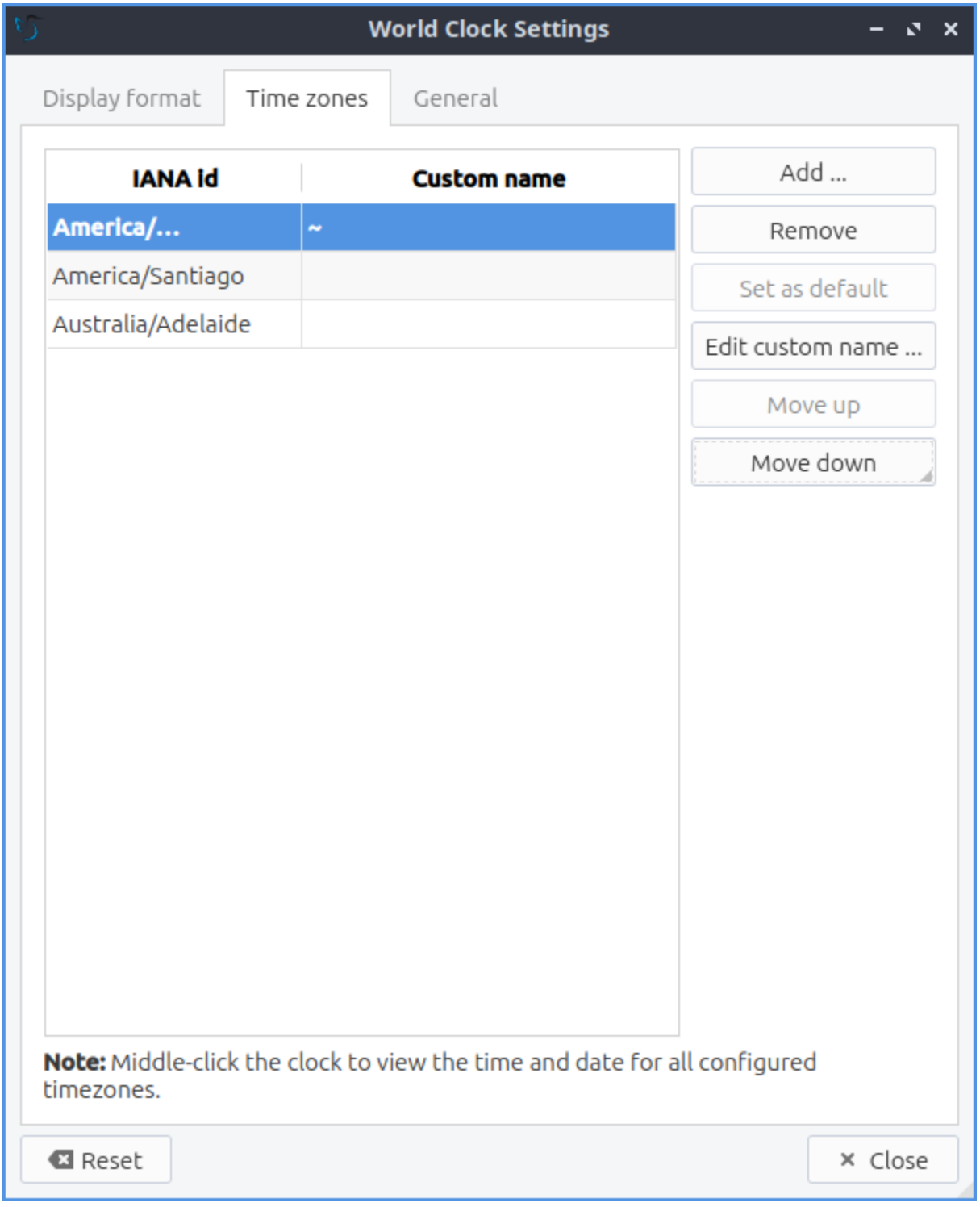


To show the date on the clock check the Date checkbox. To change where the date appears change the Position drop down menu.To further customize your panel select Custom from the Format drop down. To show the year press the Show year checkbox. To show what day of the week it is check the Show day of week checkbox. To make the day two digits check the Pad day with zero checkbox. To not abbreviate the months and days of week check the Long month and day of week names checkbox. To reset your changes to the clock press the Reset button.

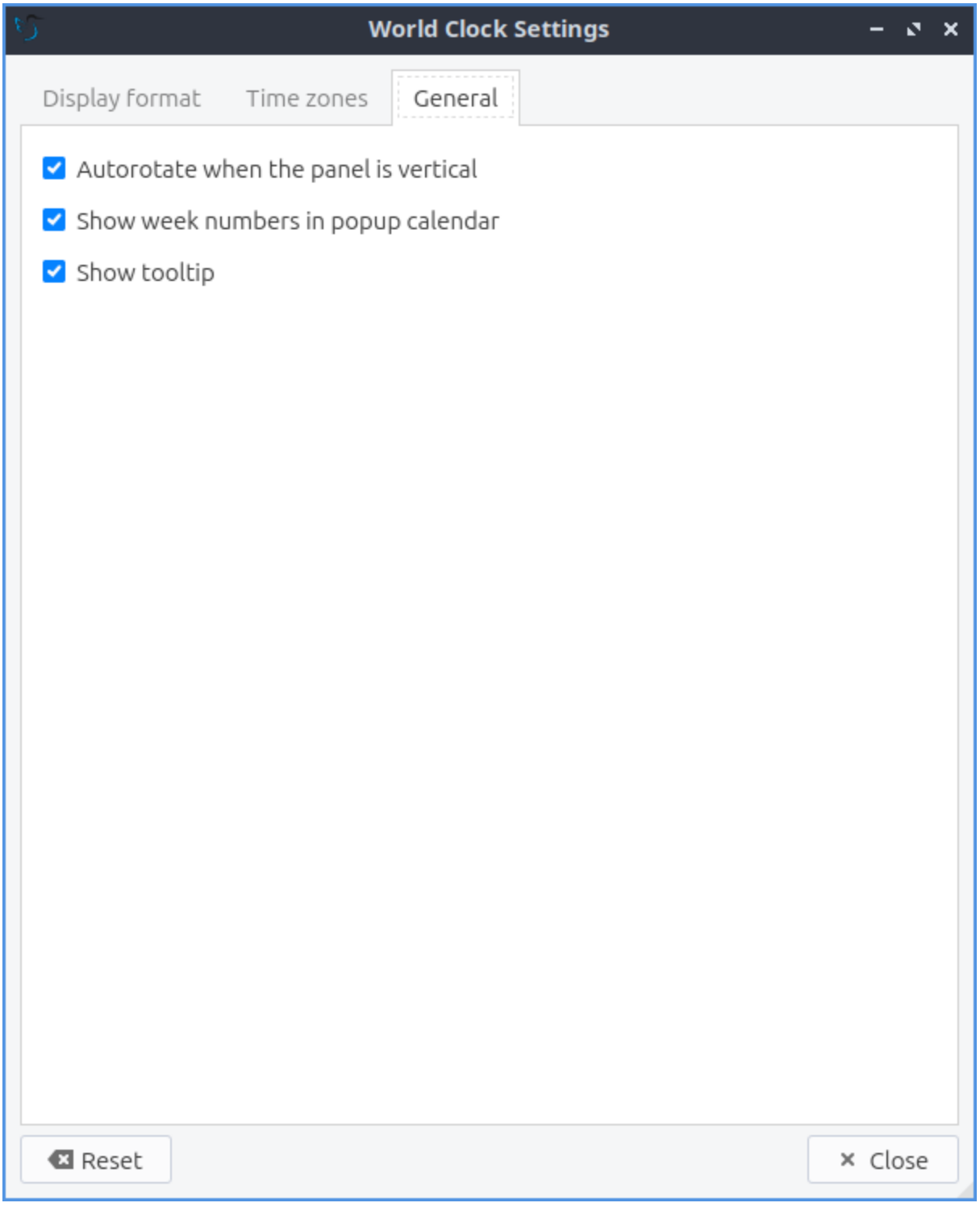
To add many different time zones to your clock use the Time Zones tab. To add a second time zone press the Add button and a dialog will pop up. Left click on the arrow to expand the time zones under a continent. The Name column shows you the the name of the time zone. The Comment column shows you a comment on the time zone. To see which country this time zone is in use the Country column. To add the time zone press the OK button.



To remove a time zone you added left click the Remove button. To set a time zone as the default time zone left click on the Set as default button. To add a custom name to your time zone left click the Edit custom name button. To move a time zone up use the Move up button. To move a time zone down use the Move Down button.



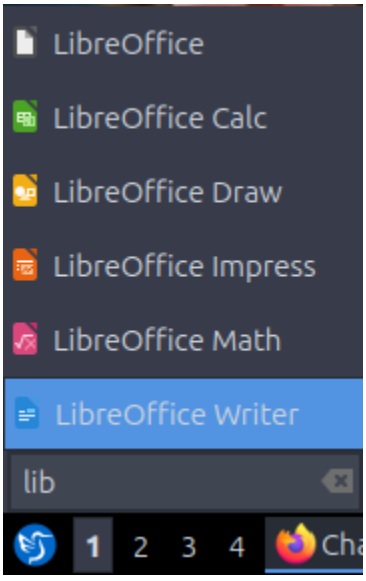
To have a few more settings for your clock use the General tab. To autorotate when the panel is vertical check the Autorotate when the panel is vertical checkbox. To show week numbers on the popup calendar check the Show week numbers in popup calendar checkbox. To show information on your clock when you mouseover it check the Show tooltip checkbox.



To add two or more panels right click on the panel and Add New Panel and a new panel will be created with the dialog to customize your second panel. To remove a panel right click on the panel and select Remove Panel and you will be asked if you really want to do this as it can't be undone. To then make your new panel useful you will need to add widgets which you will need to see the above section.

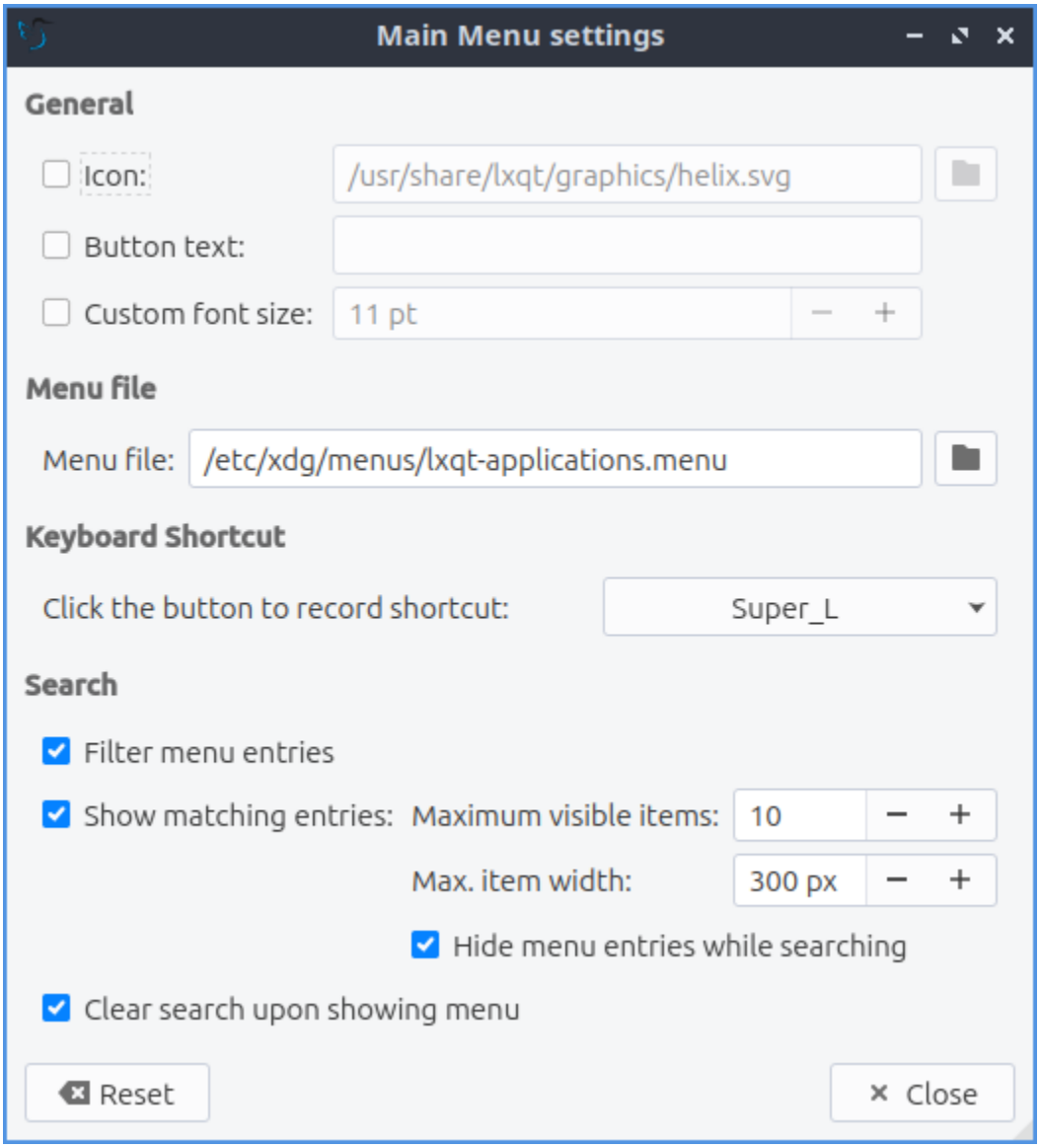
Non-Default widgets

To add the older menu used by default in Lubuntu 24.10 and earlier add the Application Menu applet. The application menu allows you to browse and search through available programs; a keyboard shortcut is conveniently available for this and is set to `Super(Windows)` by default. The menu has many subcategories to launch each application. To move an application from the menu to the desktop right click on it and select Add to desktop. The Leave menu has options to Hibernate, Leave, Logout, Reboot, Shutdown, or Suspend. If you want to lock your screen use Lock Screen. If you want to lock your screen select Lock Screen. If you mouseover a program you can see a description of that program in the menu. To go back one level or close the root level of the menu press the `Escape` key. The desktop switcher allows you to switch to another virtual desktop, allowing you to keep your workspace organized by left clicking on the desktop number or using the mousewheel to change desktops. To see your desktop names simply mouseover the desktop number to see the desktop name.



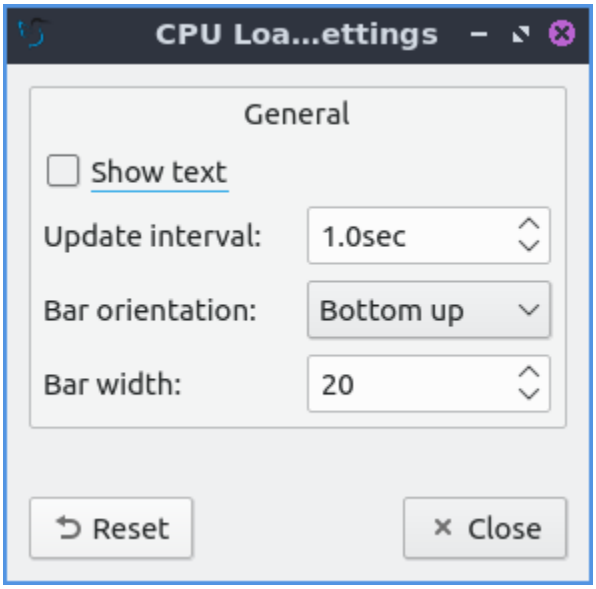
To configure options for your Application Menu right click on the menu configure application menu or from the panel configuration dialog with the widget selected for application menu click on the circle with three dots button. The Icon checkbox lets you choose a custom icon to use in your menu if you want one and then use the folder button to browse for the path of the custom file you want for your menu. The checkbox for Button text lets you add text that can be anything you want to your menu. To change your own font size check the Custom font size checkbox and change your font size on the field to the right. To change the shortcut to open the menu from the default `Left Super (Windows)` you can press the button for keyboard shortcut and a countdown will begin a countdown and press the button. To choose another file to use as a menu press use the Menu file field to choose a different menu. To set a custom keyboard shortcut to open the menu left click on Click the button to record shortcut button then press the keyboard shortcut you want.

To turn off searching in the menu uncheck the Filter menu entries checkbox. To turn off showing matching items directly in top layer of the menu uncheck the Show matching entries checkbox. Leave both of these checked to allow searching. To set the most number of search results in the menu change the Maximum visible items field. To change how wide each search result can be change the Max. item width field. To not hide what section of the menu everyone has Hide menu entries while searching checkbox. To not clear your search upon reopening the menu uncheck the Clear search upon showing menu checkbox.

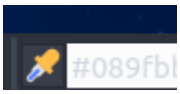


To add an easy way to change brightness to your panel add the Backlight widget. To bring the applet to change backlight level left click on the icon. To make the backlight more faint drag the slider to the bottom and to make it brighter drag the slider towards the top.

To have a bar that shows CPU Load shows a bar graph with your CPU usage. To bring up settings for your CPU usage is right click on the CPU bar Configure CPU Monitor. The Show text checkbox shows a number for CPU usage. The field for Update interval is how often to update your CPU usage. The Bar orientation says what side to start the bar graph. The Bar width is how many pixels wide to make the bar graph. If you want to reset your changes press the Reset button.



The Color picker is shows what color something is on your screen usually useful for web developers. To get a color off the screen press the color dropper button and your mouse will turn into crosshair and then left click on what you want to take the color. Then a numeric field to the right of the dropper will appear with the color in a numeric field to the right. Left clicking with the droplet will bring up a menu of the last colors picked. To clear the list of colors left click where you select a color and select Clear list.

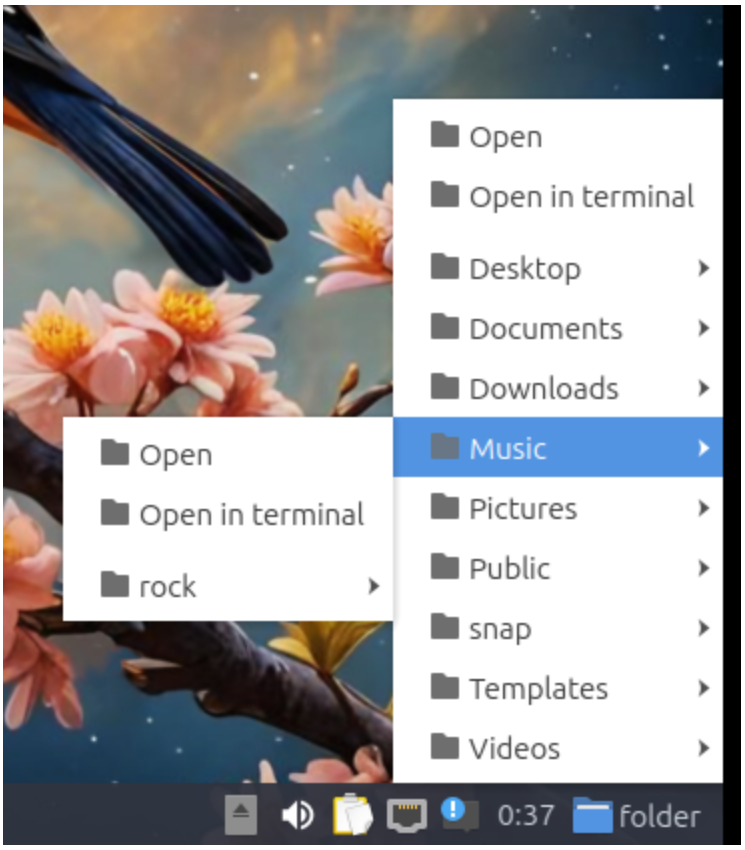


To have a custom command add the Custom Command widget. To have this have meaningful output you need to configure the widget by right clicking on the Custom Command widget and selection Configure “Custom Command”. To have the output not rotate when the panel is vertical uncheck the Autorotate when the panel is vertical checkbox. To change what output your custom command has left click the button next to Font. To choose the color for the text on the custom command check the Text Color button. To return to the default color press the Reset button. To have the output your command go line by line continously check the Continous output (process line by line) checkbox. To type the command you want to run type in the box above and to the right of Command. To run the command with bash running the command check the Run with “bash -c” checkbox. To change if or how often the command is run on repeat check the Repeat command after checkbox and change how often it runs in the field to the right. To choose an output format for your command use the Output format field. If the result of the command is an image check the Command outputs an image checkbox. To choose an icon for the custom command widget type the path of the icon in Icon or press the Browse button. To choose just put text on the panel type in the Text field. To change the maximum width the output of the text can be type in the Max Width field.

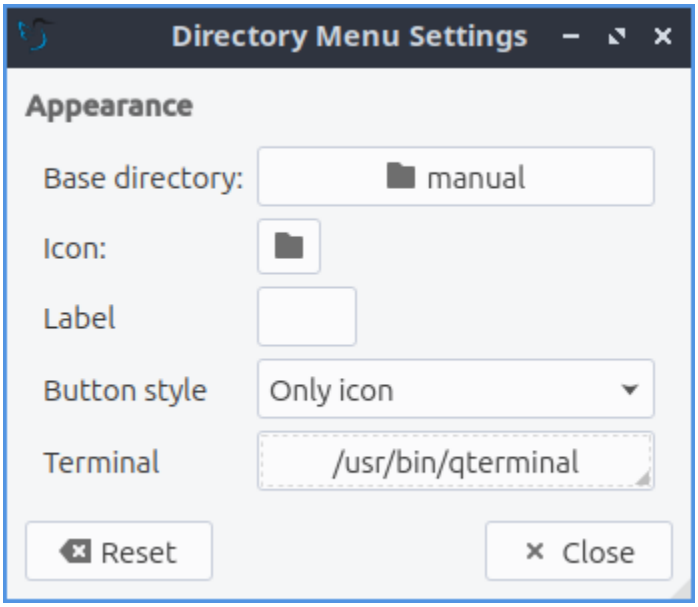
To change what commands when you click on the custom command is under the Mouse Commands heading. To run a command with clicking on the applet enter the command in the Click in mouse commands. To run a specific command upon going up on the mouse wheel enter the command in the Wheel Up field. To run a specific command with scrolling down on the mousewheel enter the command in the Wheel Down field.

To add a menu that lets you open a file manager in a directory Add the Directory Menu widget. To open the Directory Menu left click on it. To open a file manager in this location press the Open. To switch to opening a folder in your directory mouseover the folder and then

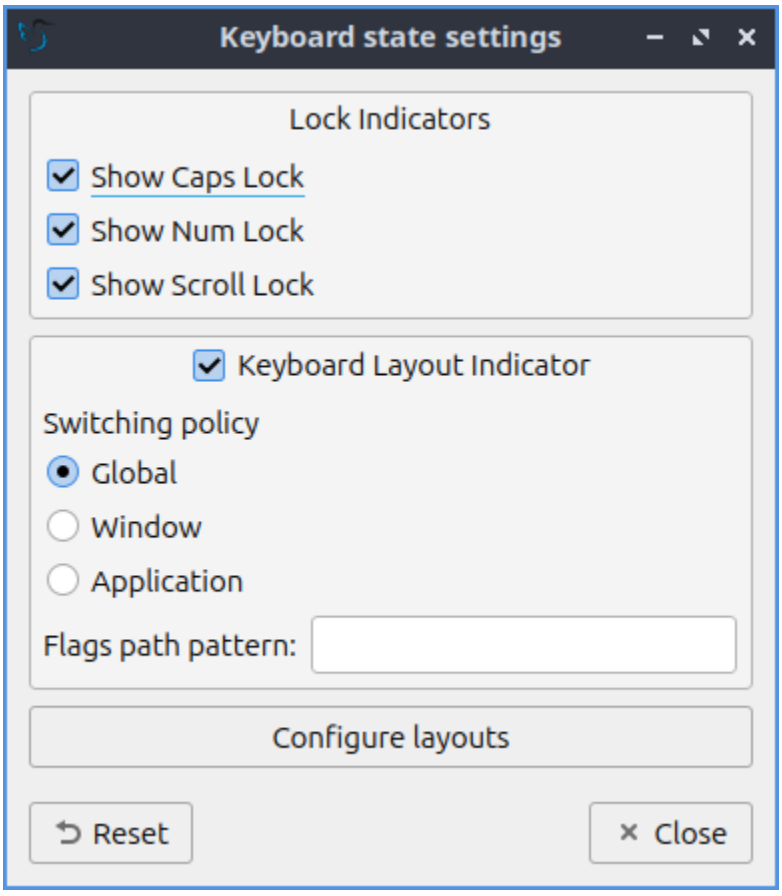
subsequently in any in that folder. To open a location in terminal select Open in terminal.



To change settings of your Directory Menu right click and select Configure Directory Menu. To change what directory to open in the menu on use the Base directory field. to choose an icon for your menu use the Icon file picker to pick an icon. To add a text label to your Directory menu use the Label field. To choose to have a button, text and a button or text and a button use the button style menu. To set which terminal to open a terminal in a directory set the Terminal field.



To add an applet that can show your current keyboard layout and if capslock, numlock, or scrollock is pressed use the Keyboard State Indicator applet. If shown the capslock indicator if shown will have a highlighted C to show if you have capslock on. The numlock indicator if shown has the N is highlighted. The scrollock indicator if shown will have a highlighted S to show if scrolllock is on. Then to the right of your panel shows your current keyboard layout with either text or a flag by the for your keyboard layout.



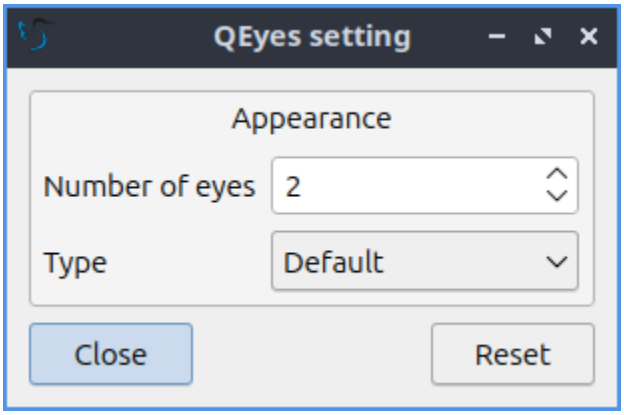
To change settings on keyboard state indicator right click and select Configure Keyboard State Indicator or press the … button on configuring the panel on Keyboard State Indicator. To hide showing the caps lock uncheck the Show Caps Lock checkbox. To hide your numlock indicator uncheck the Show Num Lock check. To hide the scroll lock indicator uncheck the Show Scroll Lock checkbox. To toggle showing an indicator for your keyboard layout check/uncheck the Keyboard Layout Indicator checkbox. To have clicking switch your keyboard layout everywhere press the Global button under Switching Policy. To have your layout switched by only a window press the Window under Switching Policy. To have your keyboard layout switched on a certain application press the Application button under Switching Policy. To show a flag in your panel first install the iso-flags-svg package and in the Flags path pattern field type in `/usr/share/iso-flags-svg/country-squared/%1.svg` to show the flags. To open the configuration of your keyboard layouts press the Configure layouts button.

To have a set of eyes that look towards where the mouse cursor is add the QEyes widget. The eyes look towards where the mouse cursor is relative to from the eye.



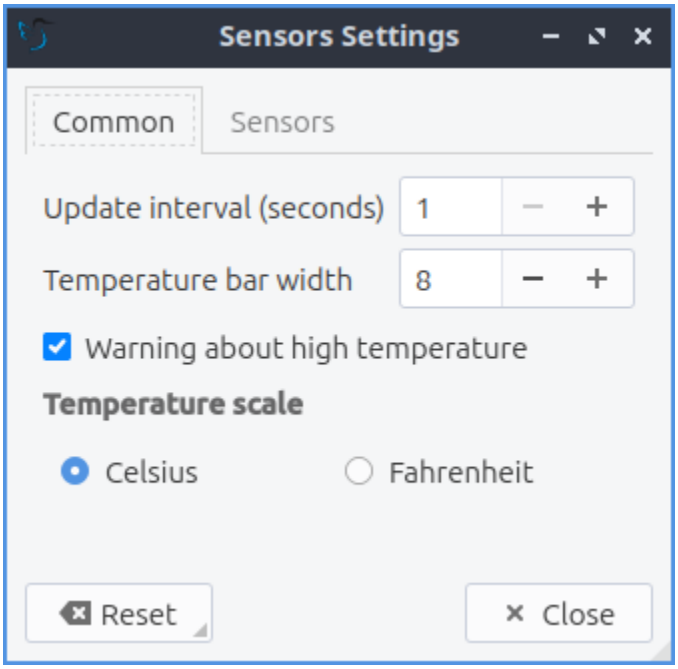
To bring up settings on how to configure QEyes is to right click on the eye and select Configure

Qeyes. To change how many eyes appear on the panel change the Number of eyes field. To change the theme of the eyes change the Type field.



To use your sensors widgets which you would have to add manually as shown above. A sensor bar will appear with as many sensors as on your panel. To view the temp as a number mouse over the sensor bar to see what your temperature is in a number in the Cur field. Also shown on mouseover is the Crit field shows the temperature the sensor should not read above without overheating.

To customize the sensors right click on the sensors applet Configure “Sensors”. The Update interval(seconds) field lets you choose how often in seconds to update the sensors. The Temperature bar width field shows how wide to make the bar for your sensors. The Temperature scale field lets you select Celsius or Fahrenheit for your sensors. The checkbox Warning about high temperature puts a warning if your temperature gets too high. If you want to reset your settings press the Reset button.

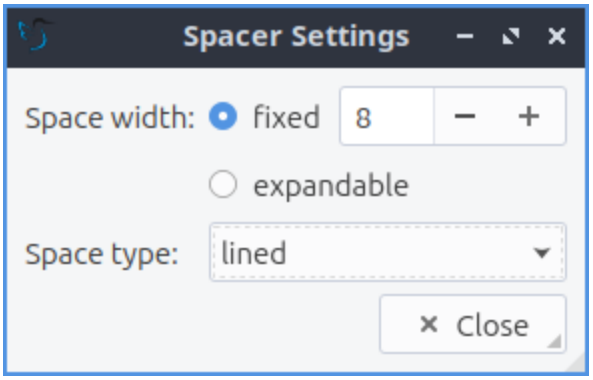


The Sensors tab provides settings for each individual sensor on your processor. To enable/disable each sensor press to the Enabled checkbox for each sensor. The Label shows a label for each sensor. The Color column shows the color for the bar to appear in the panel and you can bring up a dialog to change color by left clicking on the button. To switch to a

different chip to set the sensors for change the Detected chips menu.



To add a spacer to your panel add the spacer widget. It creates a blank space on your panel which can separate different items. To change how wide your spacer is change the Space Width field to the number of pixels you want the spacer to be wide. The setting for Space type selects lined, dotted, or invisible for changing the spacers appearance.



Version

Lubuntu ships with version 2.4.1 of LXQt-panel.

How to Launch

LXQt-panel should auto launch by default. If you need to manually start it, run

```
lxqt-panel
```

from the command line.

2.5.2 Chapter 5.2 Desktop Icons

The icons on your desktop can be moved by left clicking, holding and dragging the desktop icon to the position you want it. Shortcuts or desktop entry files can be opened by double click on the icon. If you want to view or edit a desktop file say for launching an application is to right click on the icon open with and select say a text editor like FeatherPad to open file. To move a desktop icon hold left click and drag the icon to the desired position. If you move a desktop icon and then want to move it back right click and uncheck Stick to current Position. If you have an new executable file on your desktop and always want to run it right click and select Trust this executable. If an executable is not trusted it will have an ! on the icon.

If you want to not see all your icons to show off your awesome desktop right click on the desktop background and select Hide Desktop Items. If you have hidden files in your desktop and want to toggle showing them right click on your desktop, check/uncheck, and select the Show Hidden checkbox. To create a new folder on your desktop right click and select Create New ▸ Folder. To create a new blank file on your desktop right click on it and select Create New ▸ Blank File. To paste a file right click and select Paste and this shares things you have copied in PCManFM-Qt.

To rearrange your files by when they were last modified right click on the desktop Sorting ▸ By Modification Time. To sort by how large each file is right click on the desktop Sorting ▸ By File Size. To return to sorting by name right click on the desktop and select Sorting ▸ By File Name. To reverse the order of sorting right click on the desktop and select Sorting ▸ Descending. To sort back to the way you had before right click and select Sorting ▸ Ascending. To make your sorting of desktop icons case sensitive right click on the desktop and select Sorting ▸ Case Sensitive. To make folders appear first right click on your checkbox and select Sorting ▸ Folder First.

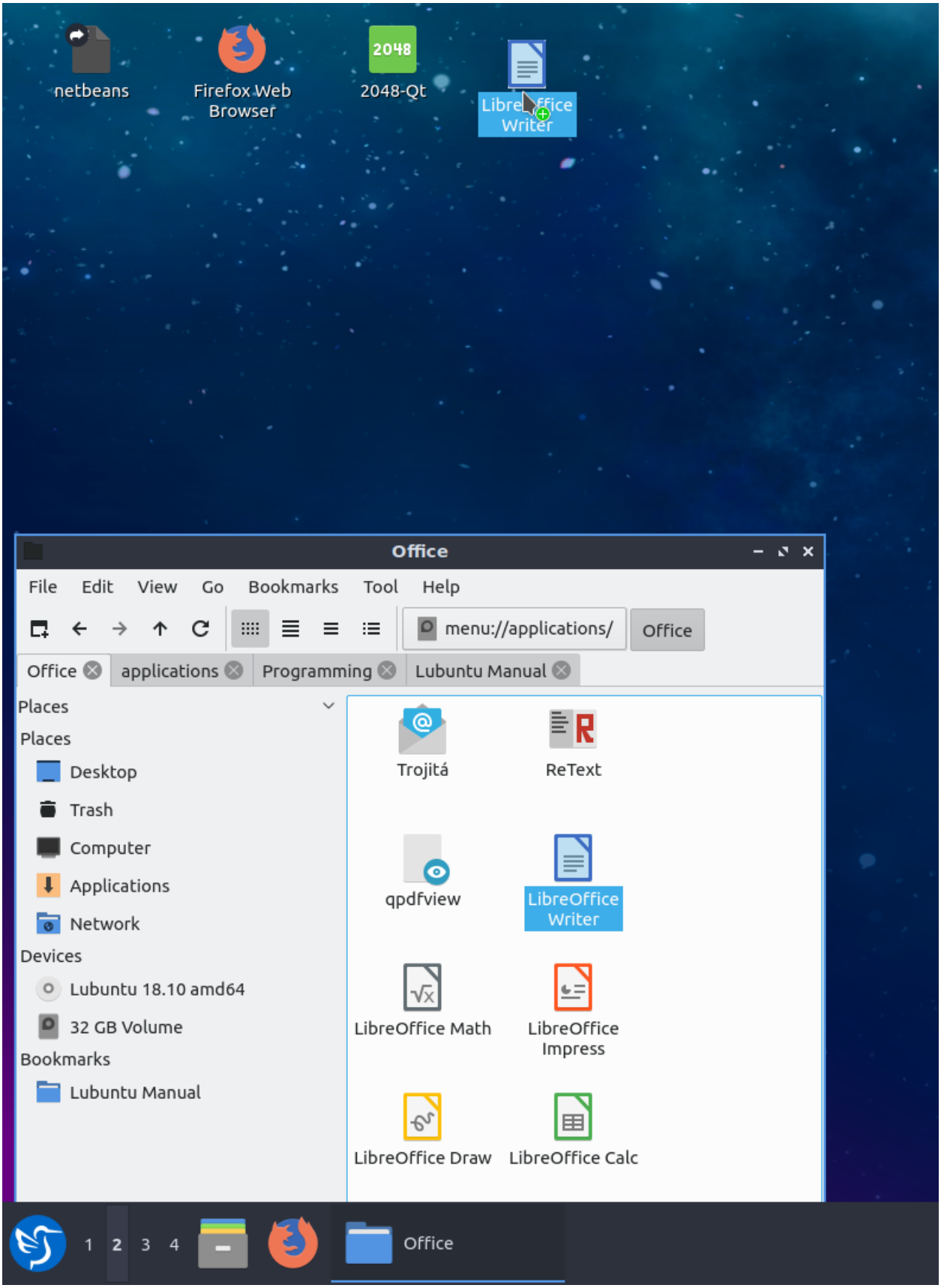
To select all items on your desktop right click on the desktop background and select Select All or press `Control + A`. To select the opposite to what you currently have select right click on the desktop and select Invert Selection or press `Control + shift + A`.

Having a folder on your desktop gives you a few more options. To open a folder in your terminal from the desktop right click and select Open in Terminal.

Some icons also have special actions associated with them. You can right click on the trash and select Empty Trash to get rid of all files in your trash can.

Adding and removing items from the desktop

1. Shortcuts can be copied to the desktop by dragging and dropping them from the application menu.
2. You can also create shortcuts by dragging and dropping files and folders from the File manager onto the desktop.
3. To rename a file on the desktop right click on the icon Rename.
4. To open the properties of a file or icon on your desktop right click the icon Properties.
5. You can create files on your desktop by saving them in the desktop directory in your home folder.


netbeans
Firefox Web Browser
2048
2048-Qt
LibreOffice Writer
Office
File Edit View Go Bookmarks Tool Help
menu://applications/
Office
Office applications Programming Lubuntu Manual
Places
Places
Desktop
Trash
Computer
Applications
Network
Devices
Lubuntu 18.10 amd64
32 GB Volume
Bookmarks
Lubuntu Manual
Trojitá
ReText
qpdfview
LibreOffice Writer
LibreOffice Math
LibreOffice Impress
LibreOffice Draw
LibreOffice Calc
1 2 3 4
Office

To remove a desktop icon right click on the file and click Move to Trash.

Editing

To edit a desktop entry including those on your menu you will need to open the .desktop entry in FeatherPad or the text editor of your choice you can also on desktop icons right click on the icon and Open With. To launch a program with an option simply add that option to the line that starts with Exec=. To change what the name of the desktop file shows up as on the desktop and in file manger change the entry line that starts with Name=. To change the icon to that used by something else change the line starting with Icon=.

Creating

To create a launcher graphically you can right click on the desktop and select Create Launcher. To add a name for the launcher you want enter in the Name field. To enter a description of the program enter the Description field. To add a comment to your .desktop file enter it in the Comment field. To add which command you want your desktop file to execute enter that in the Command field. To choose which icon to use for your icon enter it in the Icon file or press the … button to find browse for what icon to use. To change whether the apps launches in a terminal change the Terminal field. To change to make this a link use the Type field and select Link. When you select link you can add the URL with the URL field.

2.5.3 Chapter 5.3 Runner

Runner allows you to search for and launch applications and commands in the LXQt environment. It is a quick and convenient way of finding what you're looking for and launching it quickly.

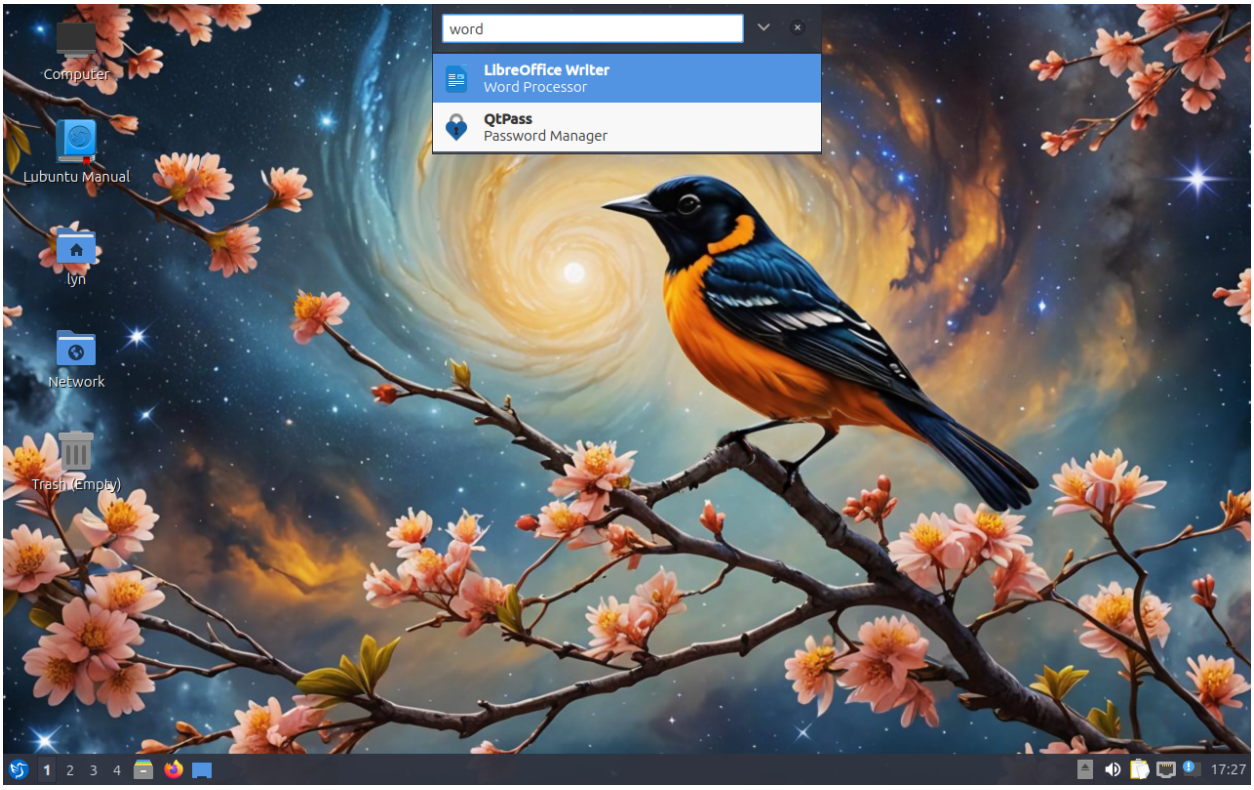
Usage

To search for a program, press `Super(windows)+R` and start typing a command. The search results will show below, similar to address bar behavior in browsers. All installed applications can be launched this way and Runner can be configured to store a history of recent programs. If you want to clear history open the downward pointing arrow and select Clear History. The runner even lets you logout, shutdown, or other ways to leave your session through the runner. Also keep in mind you do not have to search for the start of an application like inputting `grab` will show results for ScreenGrab. To paste a command to run into the runner press `Control +V` or right click on the runner and select Paste. To change to the last result of what you are searching for press `End`. To move to the first result press `Home`.

Runner can also work as a calculator if you put for example `2+2=` and you will get the answer. To add numbers together with the calculator enter the `+` in the bar. To subtract numbers together with the calculator enter the `-` in the bar. To multiply numbers enter * into the bar. To divide numbers in runner enter `/` into the bar. To exponentiate enter ^ into the bar. To have Runner work as a calculator type a number as the first character. After typing = the result will be copied to your clipboard.

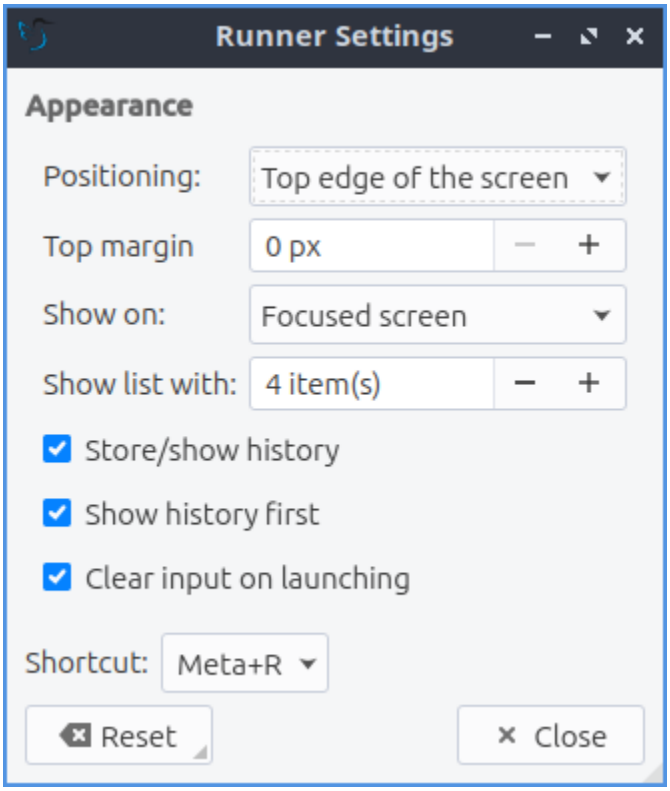
You can also leave your session with lxqt-runner. To shut your computer all the way down press the button that looks like a downward pointing arrow and select Shutdown. To suspend your system press the downward pointing arrow and select Suspend. To reboot your system press the downward pointing arrow and select Reboot. To logout of your system press the downward pointed arrow and select Logout. To lock your screen from the runner press the downward pointing arrow and select Lock Screen. If you decide against running something press the `Escape` key or click on the x button.

Screenshot



Configuration

Runner has a few configuration options. If you want to change the keyboard shortcut to launch programs, click the downward arrow on the right side of the search bar to open up the menu and select the gear icon to Configure. To change where the runner appears to the center change Positioning drop down menu. To change how far from the top the runner appears change the Top margin field. To choose which monitor to put the runner on change the Show On drop down menu. To select to show the monitor on the currently focused monitor select Focused screen from the Show on menu. To change how many results are shown when you show a result for runner change the Show list with x item(s) field. In this screen there is a checkbox for Store/show history. If you want to show history first check the Show history first checkbox. To clear input in runner after launching check the Clear input on launching checkbox. To change the shortcut press the Shortcut button and a countdown will begin in which time you need to press the key or combination of keystrokes you want to launch lxqt-runner. To reset your changes in this window press the Reset button.



How to launch

Runner should be running in the background and `Super(windows)+R` should bring it forward to launch an application. If you need to manually start it for some reason run

```
lxqt-runner
```

from the command line.

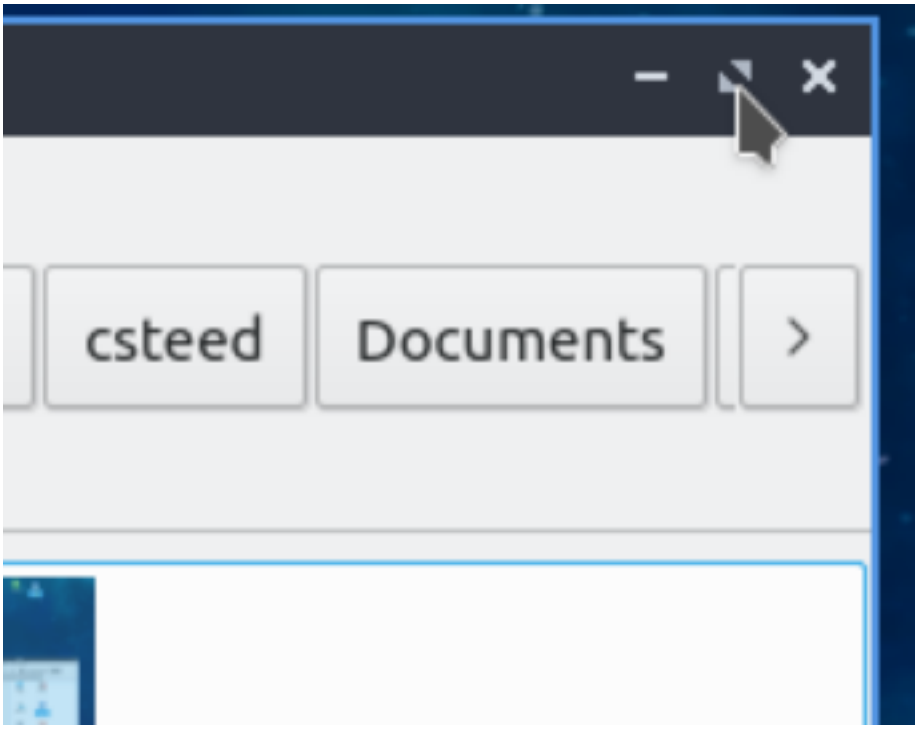
2.5.4 Chapter 5.4 Window Management

Window are the area which contains the graphical user interface that we interact with programs. In Lubuntu these windows can typically be opened, closed, resized, and minimized. Underneath Lubuntu uses Openbox as a default window manager.

Using the mouse

In the top-right corner of a window three buttons allow you basic controls of the window. Starting from left to right

- Iconify - hides/minimizes the window making it only appear on the task bar of the Panel. It can be recalled by clicking on the application on the task bar, or cycling through open windows with `ALT + Tab`. Another way to Iconify is to middle click on the titlebar.
- Maximize resizes the window to fill the entire screen.
- Close circled x attempts to close the window unless a dialog asks for to save or the program is not responding.

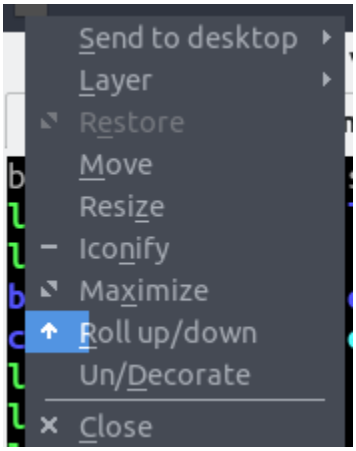


In the top center is the title of your window.

The window can be moved by by clicking on the title-bar and dragging the mouse, holding `alt+drag the mouse`, or from the menu on the titlebar select Move. Windows can be minimized by middle clicking on the titlebar with the mouse. You can resize the window by grabbing the border (sides or corners which should be highlighted in blue) and dragging or from the menu on the titlebar select Resize.

Right clicking on the title bar, pressing `Alt+Space`, or left clicking on the icon in the top-left corner of the window brings the window management menu. Here you can:

- Using Send to desktop, send the window to a virtual desktop of your choice or All Desktops
- Using Layer option allows you to set whether this windows the layer to Always on top, Normal, or Always on bottom
- If you want to move something Always on bottom or Always on top you can move it back to Normal.
- The earlier mentioned Iconify, Maximize, and Close options are also available here.
- Roll up/down rolls the window into the title-bar.
- Un/Decorate hides them title-bar. If you want to get decorations back press `Alt+Space` and then select Decorate from the menu.



Useful keyboard shortcuts

- Closing a window `Alt + F4`
- Switching through windows `Hold Alt + hit Tab`
- To switch between tabs in the reverse direction `Hold Alt + Shift+Tab`
- To open the menu normally on the left hand top corner press `Alt+Space`.
- To make a window fullscreen press `F11` and then press `F11` again to make it not fullscreen.

Virtual Desktop Switching

To switch to the next virtual desktop press `Control +Alt + Right arrow`. To shift to the previous virtual desktop press `Control+ Alt + Left Arrow`. To Do this with a combination of mouse wheel and keyboard `Alt+ Mousewheel`.

Moving windows between monitors

If you have extended multiple monitor setup with multiple windows you can move a window to the monitor by dragging the window through the titlebar past the edge of the monitor towards the monitor you want to move it to. Also you can say make a video take up one monitor and making the video fullscreen takes one whole monitor while you can do anything else you want with your second monitor.

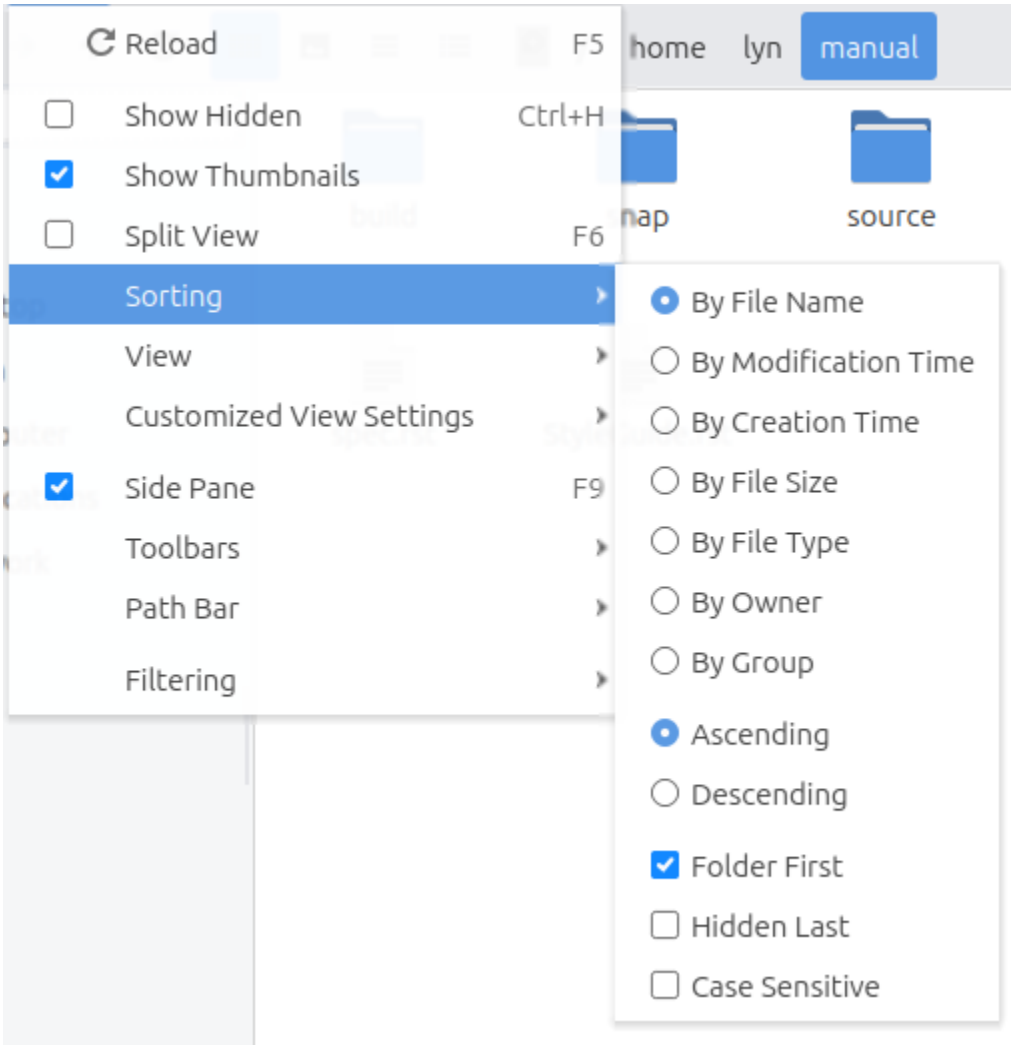
2.5.5 Chapter 5.5 Keyboard Menu Navigation

Lubuntu allows you to move through the menus of with only the keyboard instead of having to use the mouse. Looking at the menus there is an underlined with a letter. To open that menu with a for example the file menu in LibreOffice Writer can be opened with `Alt + F`. One other thing to notice is that with `Alt + underlined character`. The currently selected menu item will appear in a different color. If you want to see on your menu to have the menu shown hold down `Alt` and then press that key to see what it is to press.

Once you have the menu opened you can use the `Up arrow` and `Down arrow` keys to move up and down in a menu. Another way to move down in the menu is to press `Tab` key. If you want to move up in a different way press `Shift+Tab`. If the menu has ▸ to the right you can press `Right arrow` to expand into a submenu. To move back up a level from the menu press `Left arrow`. If you want to exit the menu press `Escape`. To move to adjacent menu to the left press :kbd:` Left arrow`. To move to an adjacent menu to the right press :kbd:` right arrow`. To

activate an item on your menu press `Enter`. If you press the `Down arrow` or `Tab` keys at the bottom of the menu you will be taken back to the top of the menu.

If there is not a submenu available you can use `Right arrow` to move to the next menu to the right. If you are at the highest level of a menu press `Left arrow` to move to the menu to the left. To close a menu press the `Escape` key.



2.6 Appendix A Tips and Tricks

If you run a hypervisor on your system putting a different mouse cursor for both the host and the guest can let you tell them apart. If you want to install many more colors you can search the repositories for cursor or if you just want many different colors install the oxygen-cursor-theme-extra package. To have a different style for applications to install you can install the qt-style-plugin-plastique package.

If you select text on X11 you can do what is called middle click paste the selected text with the middle mouse button by clicking down on the scroll wheel. If you want to see hidden files in a file opening dialog press `Control + h`.

To find out what version of software you have you can view the Ubuntu packages website[24] from whatever kind of computer you are on. On the command line you can run

```
apt policy packagename
```

even if it does not ship with Lubuntu by default or if it is not installed.

If you want to boot an older kernel for troubleshooting use the advanced options for Lubuntu at the grub bootloader screen if shown. If you need to get into this bootloader hold down `shift` key at booting and then select the different kernel you want to boot into. To move down to Advanced options press `Down Arrow`. To select the advanced options press the `Right Arrow` or `Enter` key. To go back up a level from a submenu of grub press the `Escape` key.

To add a boot option press the `e` key and then type the boot parameter you want to add to the end of the line. The nomodeset option will try to load things for graphic compatibility if for example you get a black screen without proprietary drivers.

If you want more openbox customization than the openbox settings can provide you can look at the openbox wiki openbox wiki[25] .

If you have multiple monitors and run either fullscreen games and video adding a second panel with the world clock plugin will help you tell what time it is. Also setting individual wallpaper for each monitor can make the wallpaper look much better see chapter 3.2.5 for how to do this.

In Modern Lubuntu release DNS is managed by systemd-resolvedd. To find the configuration file you need to edit to change your DNS settings you will need to edit /etc/systemd/resolved.conf. To apply your changes you will need to run

```
sudo systemctl restart systemd-resolved
```

to get your changes actually applied.

To have additional upstream LXQt documentation you can view the LXQt wiki at LXQt Wiki[26] .

2.7 Appendix B Contributing

2.7.1 We need help

We're always making hints about contributing. Lubuntu, like most every open source project out there, relies on the contributions of volunteers to develop as well as to maintain.

...not code

That does not mean you need to be a developer, either. Though there is some new code we write, this is relatively rare. Including upstream changes in our packaging can be a little advanced, but even that is not the sum total of what we do. You have the skills necessary.

If you're nothing more than a user, you can help out with the following without really knowing much more than you already do:

- Support and Bug Triage

[24] https://packages.ubuntu.com/
[25] http://openbox.org/wiki/Main_Page
[26] https://lxqt-project.org/wiki/index.html

- Documentation[27]
- Testing[28]
- Bug triage[29]

And we could always use help with art/graphic design!

No strings attached

Contributions can be done on an extended basis (making becoming a Lubuntu Member easy) or can be little bits here and there. You can come and go as you like. You can work only on one issue you feel particularly strongly about, or you can get involved over a wide scope.

Free training

For those interested in a deeper understanding of the system or that would like to develop additional skills, the Lubuntu team is happy to provide assistance.

Why not join?

That said, you're all users, so you all can contribute. For those of you that are not contributing, why not? For those of us that do contribute, we all have responsibilities in real life, including school, work and families, etc. And yet we find a little time here and there to sneak in a little help. What would encourage you to contribute?

2.7.2 Support and Bug Triage

Support and Bug Triage contributors are on the front line when it comes to interacting with users and solving problems. They use their knowledge about Lubuntu and Linux as a whole to help users solve problems, and if the problem is on our end, take that and turn it into a bug report that developers can solve.

Support

Support is mainly for the purpose of helping users solve their problems. If this is something you would be interested in, join our support channel[30] and jump in to assist when someone asks for help. The more active people we have around, the more questions can be answered.

People helping with support might find it helpful to learn debugging procedures[31] and have a Lubuntu machine available to be able to reproduce any issues. It is difficult to write a "one size fits all" guide for answering support questions, but idling in the channel and seeing how support questions are typically answered can help.

Besides the support channel, we have a tag on the Ask Ubuntu site[32] where people ask more long-form support questions. We also have a topic on our Discourse forum[33] .

[27] https://git.lubuntu.me/Lubuntu/manual/
[28] https://git.lubuntu.me/lubuntu-wiki/wiki/wiki/Testing/
[29] https://git.lubuntu.me/lubuntu-wiki/wiki/wiki/Bugs
[30] https://git.lubuntu.me/lubuntu-wiki/wiki/wiki/Support/
[31] https://wiki.ubuntu.com/DebuggingProcedures
[32] https://askubuntu.com/questions/tagged/lubuntu
[33] https://https://discourse.ubuntu.com/c/flavors/lubuntu/343

Bug Triage

Bug Triage can be compared to support in many ways, as the end goal of both is the same: try to figure out what the problem is and help the user solve it. With bugs, the approach is different. The user has identified that there is a problem, they have (hopefully) submitted logs, and they would like to see the bug fixed as an update.

2.8 Appendix C Command Line

The command line or CLI is text interface to your computer and an alternative to graphical user interfaces like windows. It typically involves typing text commands into a terminal to perform some operation. Although not necessary to learn, it can be helpful. The terminal which can be launched from `Control` + `Alt` + `T` is a command line running in a window.

An exhaustive tutorial on the command line is a bit beyond the scope of the manual. The man command brings up the user manual and can be used to learn more about a commands use, its options, and inputs. If you wanted to learn more about the df (disk free) command, enter the following into a command line and press `enter` :

```
man df
```

This will show you the user manual for the df command containing and explanation of the command and other useful information. For example is the -h option gives a human readable output. If the manual is way too long you can press the `/` key and type in what you want to search for. To scroll up and down in a manual page press `Up arrow` or `Down arrow`. To quit a man page press `q`.

```
df -h
```

will make a much nicer output than

```
df
```

To list files on the current file system one of the most important commands to know is ls.

```
ls
```

will show the files in your current directory and the man page lists more options such as viewing all files or long listing.

To change to another directory an important command is

```
cd [dir]
```

where [dir] is the directory you want to switch to. Another thing that is useful is you can append .. after cd to make it go up one level.

Many command line commands have what are called options that use one or sometimes two - to type before options that allow you to do different options on different commands which checking the man page to see what options for each command.

There is also the command line for managing and installing packages which is beyond the scope of this appendix but please see apt package management[34] for how to insert and remove

[34] https://ubuntu.com/server/docs/package-management

packages from the command line. To see how to manage snap packages on the command line see snap documentation[35] .

If you need to edit a text file from the command line the easiest editor included is nano so to edit a file from the command line if you broke something run

```
nano [file]
```

where you replace [file] with the file you want to edit. Lubuntu also ships with the advanced text editor vim however documenting how to use that editor is beyond the scope of this manual. If you want to learn that advanced text editor run the command

```
vimtutor
```

which provides you an interactive tutorial.

If you want to stop something running in the terminal press `Control +C`. To run a task in the background type a & at the end of it.

If you want just to see the contents of a file on standard output run

```
cat [filename]
```

If you have a command and you don't want to type the whole thing out you can press the `tab` key. If this does not work press `tab` again and see the list of available commands to run. This process is called tab completion.

If you want a command to run if the first completes run

```
command 1 && command 2
```

One of the most powerful uses of the command line is called a pipe which allows you to take the output of one command and pipe it to a second to this for example

```
lspci |less
```

. Also | is called the pipe character. The command less is what is known as a pager that is really useful to see commands that produce lots of output interactively.

To get the previous command you have entered press `Up Arrow`. To go to the next command in your history press `Down Arrow`.

2.9 Appendix D Upgrading from Previous Releases

With every release upgrade comes many changes across the entire landscape of packages. Naturally, an extremely large change like this can cause problems, so **we strongly recommend you back up your files**. Also, if your computer runs on a battery (such as a laptop), please ensure that the power is connected, as it may take a while and unexpected power failures could be disastrous. Also keep in mind upgrading from a previous release will download will take time and data.

We now feature a graphical way to install updates, in addition to the command-line option also listed below. Choose what works best for you, both are the same.

[35] https://snapcraft.io/docs/quickstart-guide#heading--install-snap

Note

Upgrading will keep all of your files in your home folder and configuration files intact however this will mean some changes to default keybindings for example will still be the same as when you installed but will keep all of your customizations different from reinstalling Lubuntu.

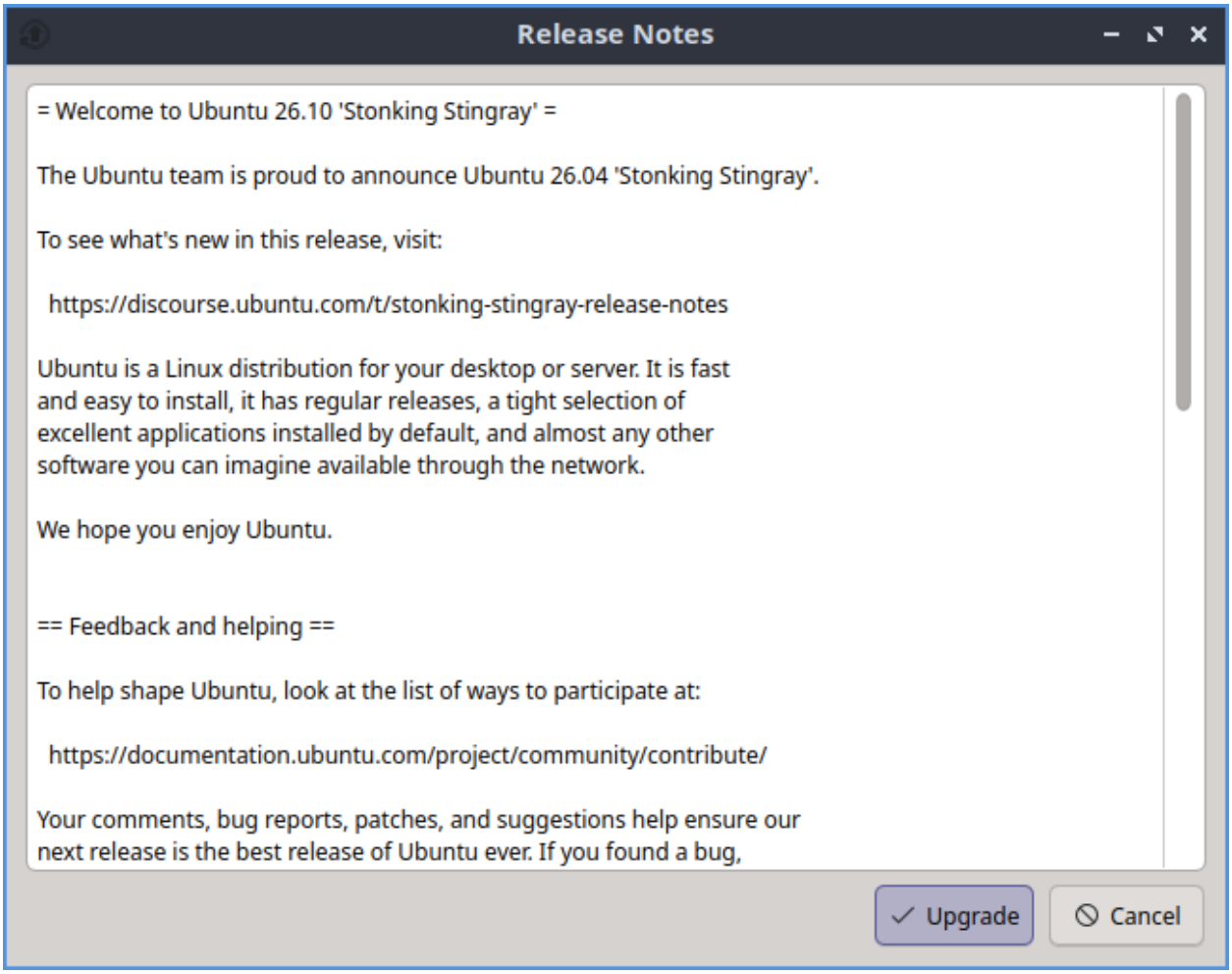
2.9.1 Upgrading Graphically

First make sure all of your current packages are up to date on the release you are upgrading. To do manually check for updates Preferences ▸ Lubuntu Update. The left click the Install Updates buttonn to install your updates. Then you need to reboot to make sure all updates have taken effect.

To launch the graphical version of the upgrade from the command line after upgrading

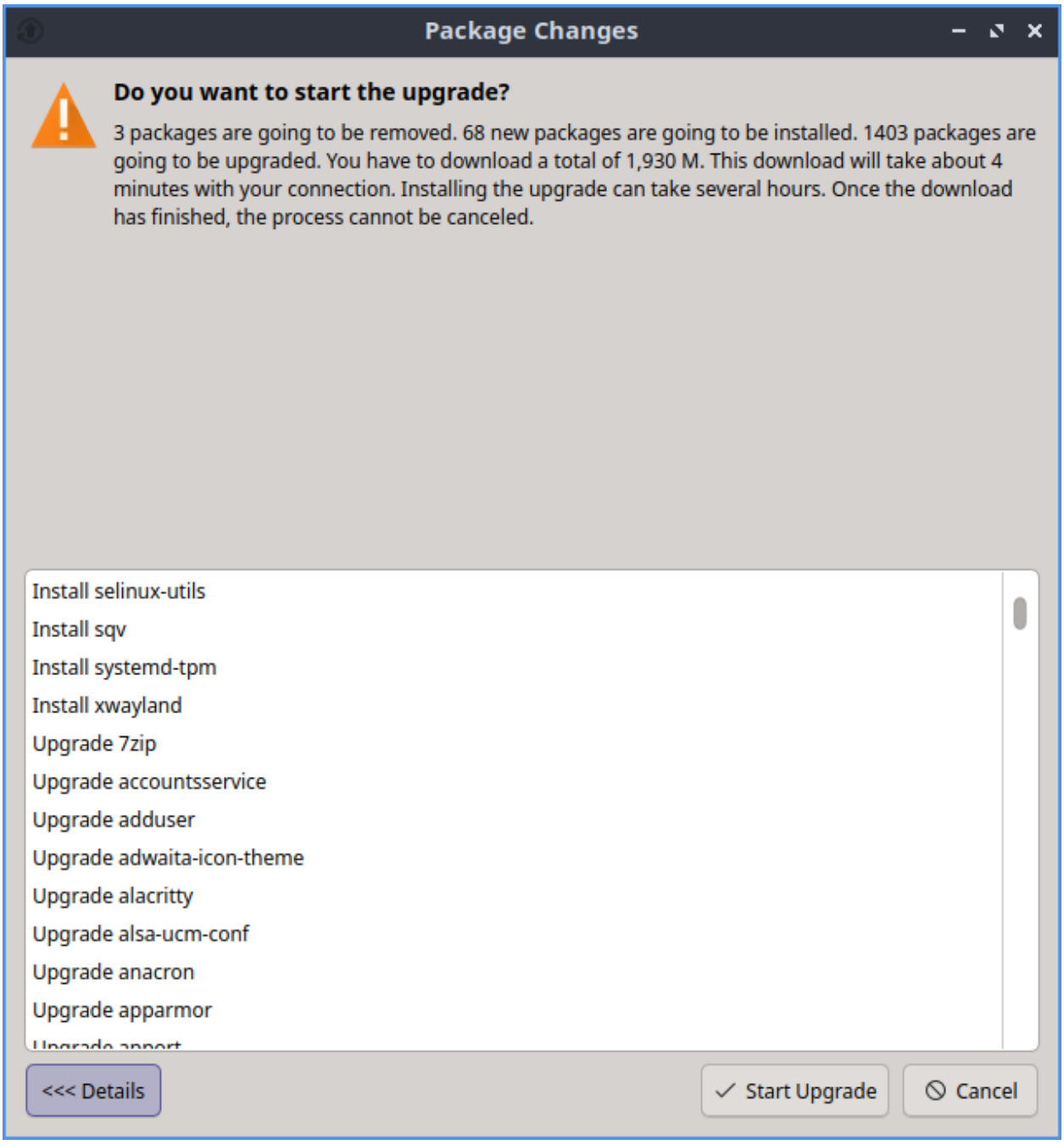
```
sudo do-release-upgrade -f DistUpgradeViewKDE
```

Once this is launched you will be brought to a window that shows you welcome to the next release. To start the release press the Upgrade button.

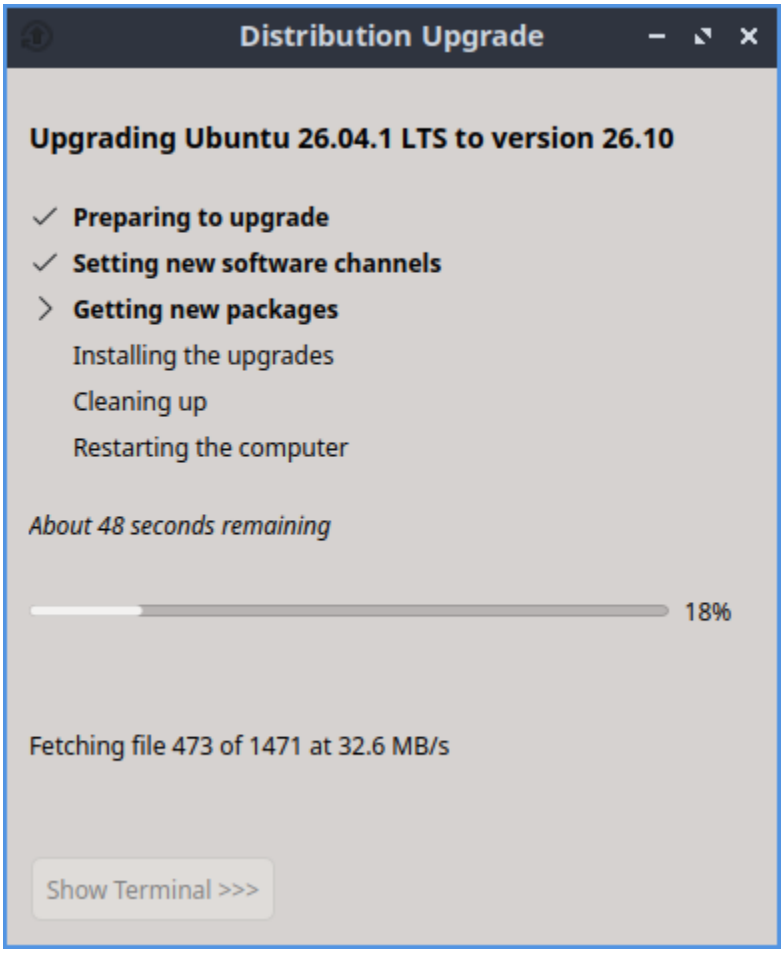


After this the upgrader will download what it needs to calculate what to download to complete

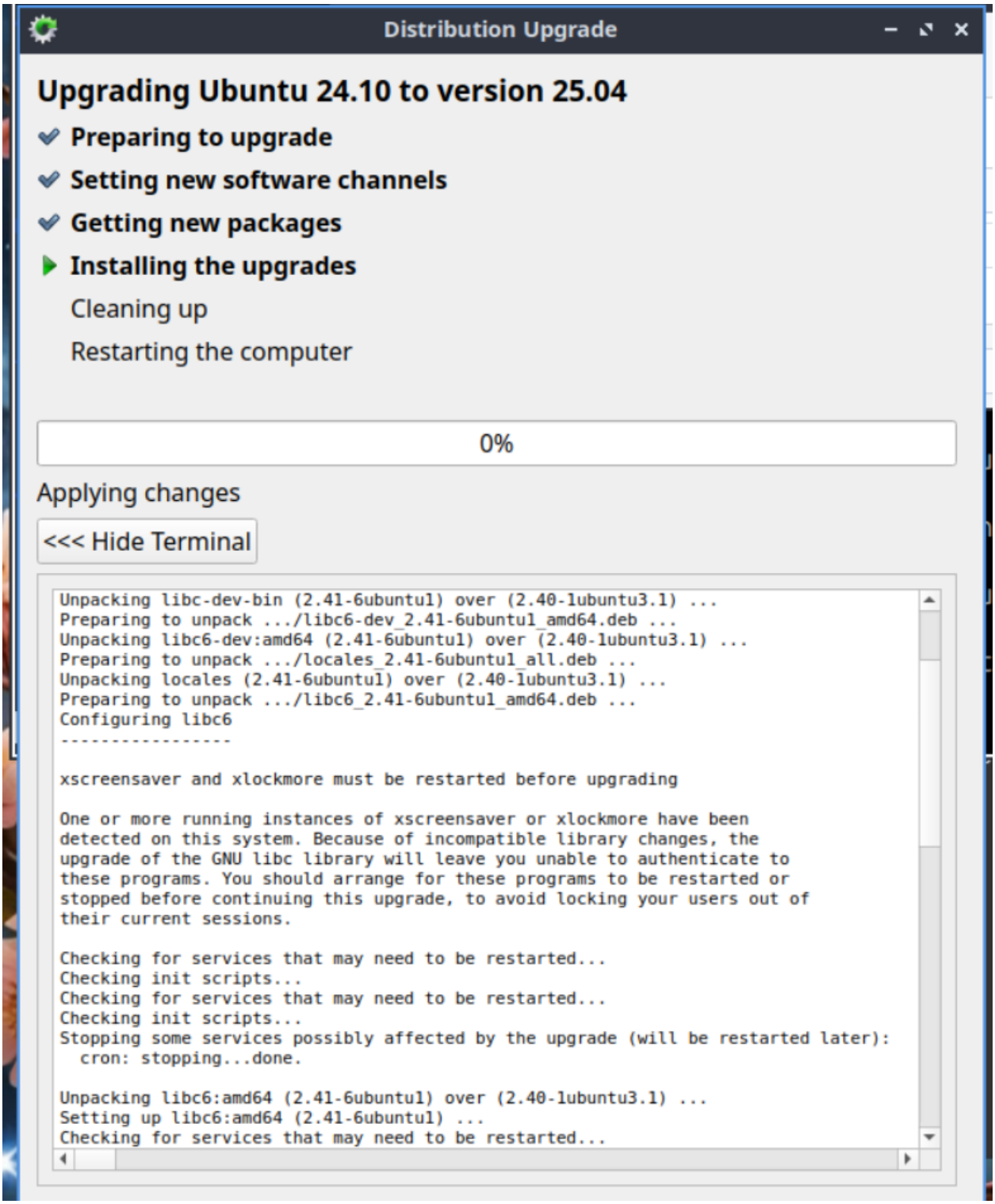
the update. To see what changes will be made press the Details button. To see how long downloading an upgrade will take will be in the text in the middle of the window. If you want to decide not to upgrade at this time press the Cancel button. To actually start upgrading to the next version press the Start Upgrade button.



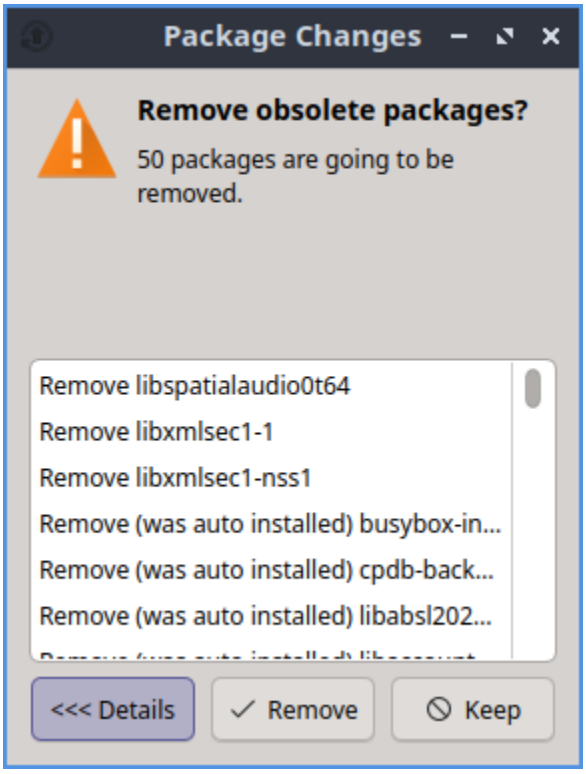
After starting the upgrade the new files will all be downloaded with an estimate of how long the download will take.



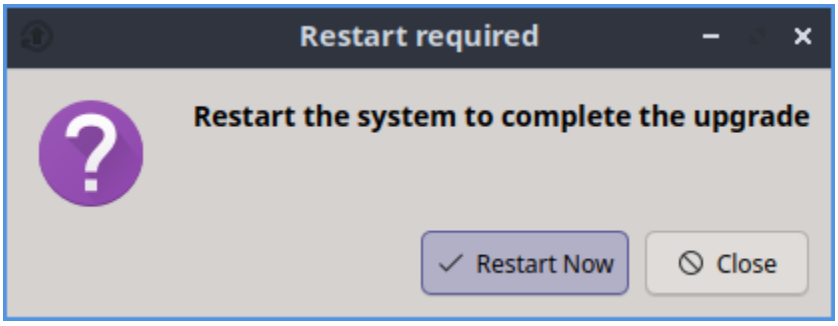
Next the upgrader will install packages. Along the bottom of the screen is a progress bar. To see progress of which packages are being upgraded press the Show Terminal. To hide the terminal again press the Terminal drop down.



After the packages are installed you will be asked to if you want to clean up unneeded packages. To see which packages will be removed press the Details drop down. To remove packages press the Remove button. To keep the packages press the Keep button.



After clean up you will need to reboot. You will be prompted to restart now or close. To restart press the Restart Now button. To restart later press Close.

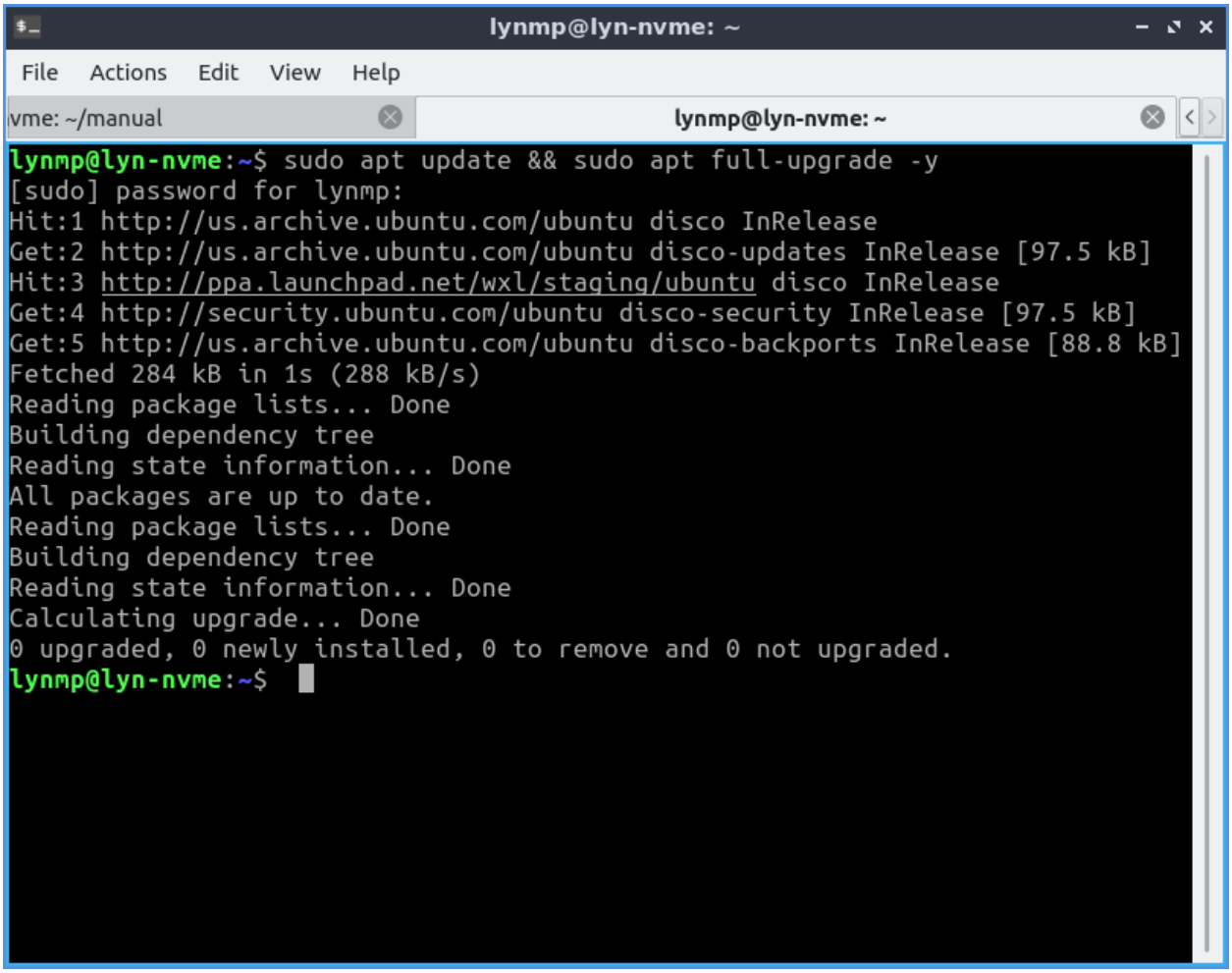


After rebooting you will return to your login screen and enjoy your updated version of Lubuntu.

2.9.2 Upgrading with command line

The first step will be to ensure your system is up to date. This can be done by entering the following command into the terminal. If prompted, enter your password. Another way updating is running the graphical updater from Preferences ▸ Apply Full Upgrade.

```
sudo apt update && sudo apt full-upgrade
```



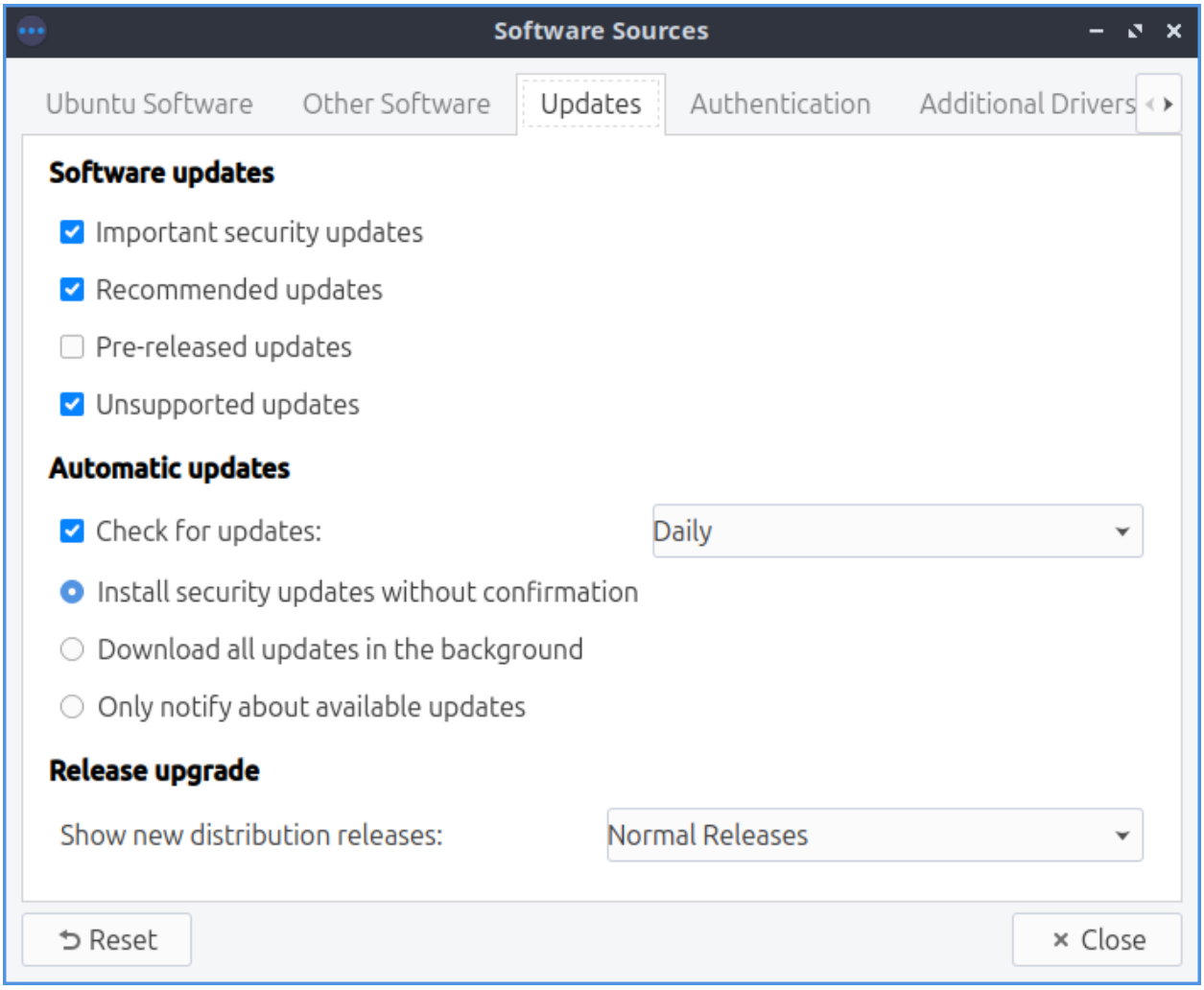
Once the software upgrade has completed, you need to restart your PC. This can be done in a number of ways however, the following command is the simplest.

```
sudo reboot
```

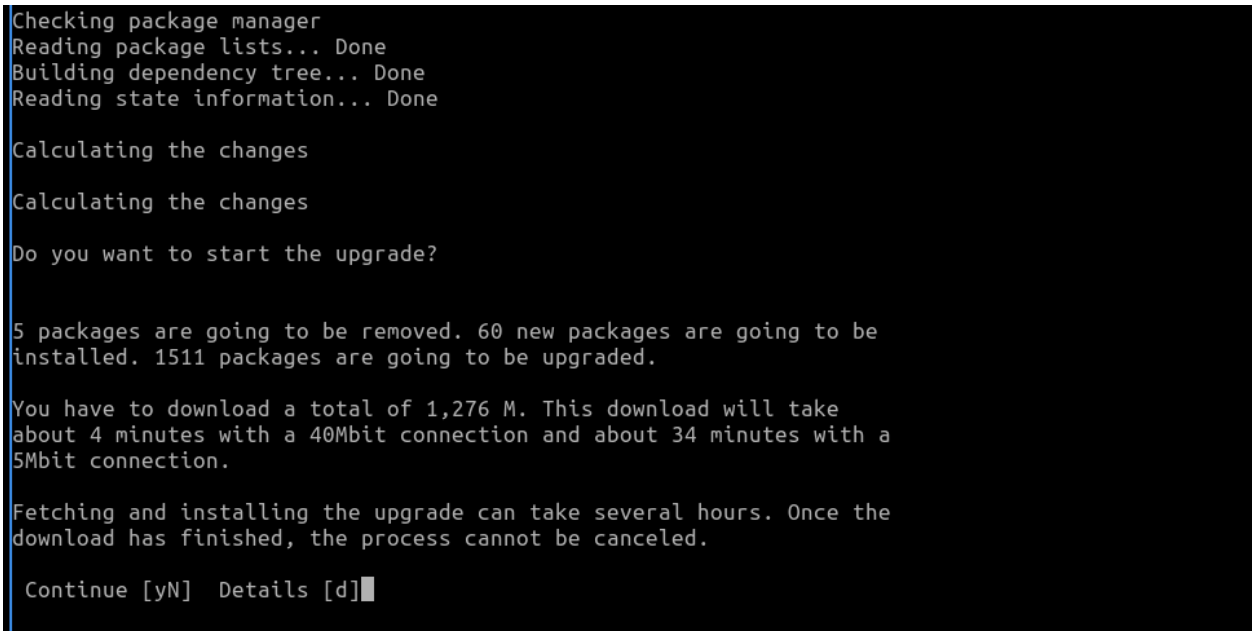
The next thing you want to do is do the release upgrade command. do-release-upgrade is the command line tool for upgrading Lubuntu installations. To run it, you need root privileges, which, from the command line means prefixing the command with sudo. Upgrades to a new operating system version can sometimes cause problems; so **always backup your files beforehand**.

```
sudo do-release-upgrade
```

You may be prompted “No new release found”, if so follow this step, else skip it. Go into software sources by Preferences ▸ Software Sources and on the Updates tab change Show new distribution releases and select Normal Releases. If you want to stay on the Long Term Support release from the Updates tab in Show new distribution releases select Long term support releases only.



While running the command line upgrade you will see what a chance to Cancel the installation, Continue, or see Details of what will change. To see details of what will change press `d`. To get back to the choice of whether to upgrade from viewing the details of changes press `q`. To cancel the upgrade press `N`. To actually do the upgrade press `y`. After pressing `y` the command line upgrader will download all the new software versions and then install new versions. Some things like a screensaver may need to be prompted to be restarted after you upgrade the package. After the new packages are installed you be asked to continue to remove unneeded packages. To remove the unneeded old packages press `y`. To view details on what will be removed press `d`.



After the installation, reboot into the newly upgraded system and log in and enjoy your upgraded release of Lubuntu.

2.9.3 Upgrading to a Development Release

If you want to run the development release and get involved in development see Appendix B. The development release is for development so **The Development release is not supported**. To upgrade to the development release add the -d option to do-release-upgrade. The process follow the same process as upgrading to a new release just you are then upgraded to the development.

To upgrade to the development release by the command line

```
sudo do-release-upgrade -d
```

To upgrade to the development release graphically

```
sudo do-release-upgrade -d -f DistUpgradeViewKDE
```

2.10 Appendix E Live Session

It is possible to use Lubuntu without installing it. In a live session your computer is running off a bootable media (USB or DVD). The live session can also be used to install Lubuntu.

Reasons for using live session:

- Hardware testing and trouble shooting.
- OS testing.
- Fixing broken installs.
- Backing up files

A good example of when you would use a live session is if your computer turns on and won't boot, you can run the live session. You could then mount the disk and backup all of your

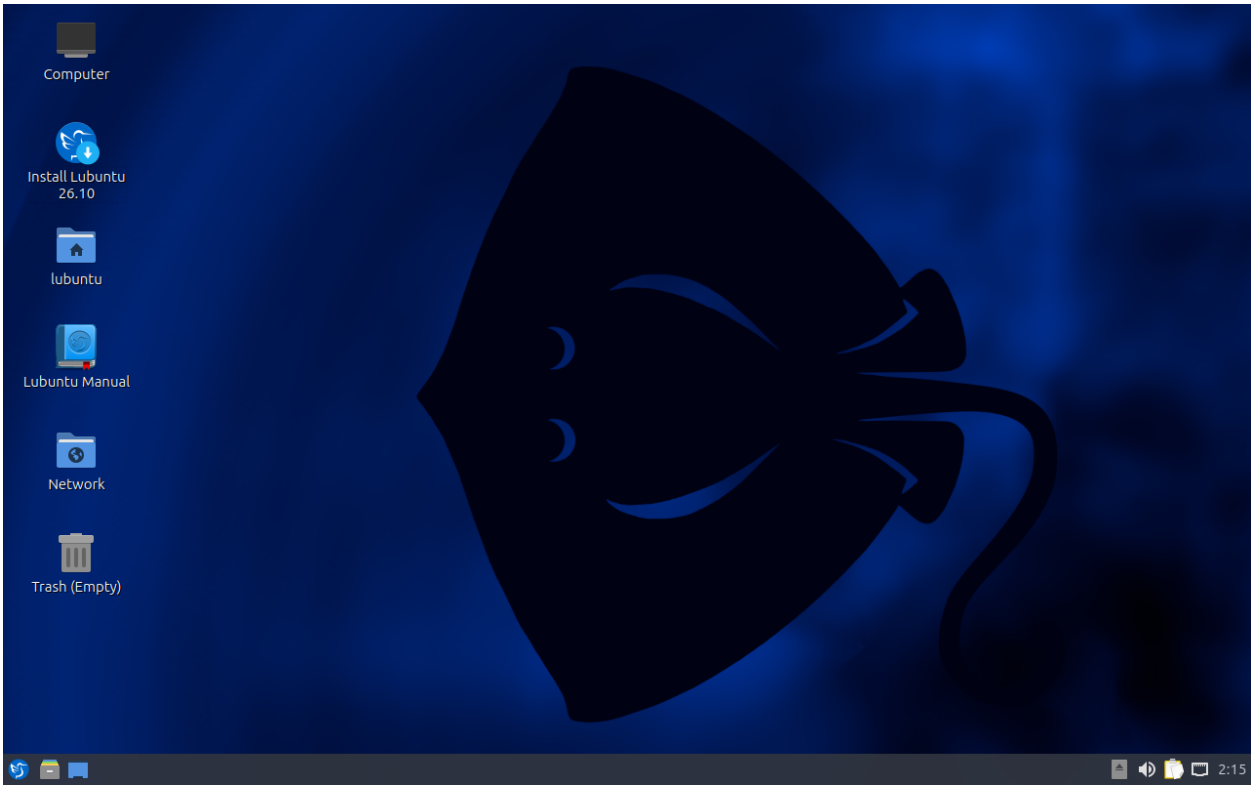
pictures or send an email. If your hard drive or SSD is no longer working, you can boot a live session and then order replacement parts. You also can feel free to try different things out in a live session and not worry about breaking your install. A live session is also useful to see if you have misconfigured something that broke it or confirm that is a problem always without configuration changes.

Warning

In a live session anything you do not save to external media or a mounted drive specifically will be lost when you power off your machine.

A live session will not save your things to disk but will not by default mess up your installed system. This is not the case if you mount your filesystems on your disk and write to the disk. By default the live session uses UTC as the default time zone.

2.10.1 Screenshot



2.11 Appendix F Hotkeys Shortcuts

Hotkeys, also known as keyboard shortcuts, allow users to easily navigate, start applications, and change settings like resizing windows. These are useful as they create a smooth and time efficient user experience. It would benefit users to take a few minutes to learn some of these shortcuts.

Lubuntu has manages the keyboard shortcuts using two layers. Namely, LXQt Global

Keys and Openbox. The openbox keybindings are stored in an xml config file in ~/.config/openbox/rc.xml.

2.11.1 Global-keys

Global-keys (lxqt-globalkeysd) is a component of the LXQt environment. Global-keys takes preference over Openbox keyboard shortcuts. Global keys are viewed, (dis)enabled and managed using Shortcut keys (Chapter 3.2.14).

2.11.2 Openbox keyboard shortcuts

Openbox keyboard shortcuts is the second layer managing keyboard shortcuts. It is preferred for windows management like resizing. To change these settings see this link on the openbox wiki bindings[36]

Note

Global-keys will take preference over Openbox bindings. If a key is used in Global-keys, it will not work in Openbox keyboard shortcuts. For example if the W(indows) key opens the LXQT application menu (equivalent of the windows start menu) in Global-keys, Openbox commands like window resizing (W + arrow keys) will not work correctly. Keep this in mind when using and editing keyboard shortcuts.

The table below shows Lubuntu's default Openbox keyboard shortcuts:

Modifier keys

Key Description

S	Shift key
C	Control key
A	Alt key
W	Super key (Usually bound to the Windows key on keyboards which have one)
M	Meta key
H	Hyper key (If it is bound to something)

Turn on Orca screenreader ========== ========== Screenreader W-A-S

Keybindings for desktop switching

GoToLeftDesktop	C-A-Left
GoToRightDesktop	C-A-Right
GoToDesktop	C-A-Up
GoToDesktop	C-A-Down

Keybindings for windows

[36] http://Openbox.org/wiki/Help:Bindings

Close	A-F4
Lower (minimize)	A-Escape
ShowMenu	A-space

Keybindings for window switching

NextWindow	A-Tab
PreviousWindow	A-S-Tab
NextWindow	C-A-Tab
Cycle to right window	A-S-Right
Cylce to left window	A-S-Left
Cycle to top window	A-S-Up
Cycle to bottom window	A-S-Down

Keybindings to toggle fullscreen

ToggleFullscreen	F11

Launch lxqt-runner	W-r
Open Panel Menu	W

Launch task manager on Ctrl + Alt + Del

Open qps	C-A-Delete

Launch a terminal on Ctrl + Alt + T

Open QTerminal	C-A-T

Launch Firefox	XF86WWW
Open QTerminal	XF86Terminal

Keybinding for computer button

Open PCManFM-Qt	XF86MyComputer

Keybinding for backlight

Toggle turn off monitor	C-F7
Decrease backlight brightness	C-S-F6
Increase backlight brightness	C-S-F7

Keybindings fo Volume

Decrease Volume	XF86VolumeLower
Increase Volume	XF86VolumeRaise
Mute Volume	XF86AudioMute

2.12 Appendix G Advanced Networking

nm-tray has the benefit of being Qt instead of GTK (use already loaded libraries, consuming less resources) and lighter than conman. But, it is a little short for more complicated networking like VPN.

2.12.1 VPN

To configure a VPN the best way to do it is with in the Menu under Preferences ▸ Advanced Network Configuration. That will open network-manager-gnome you will need also to install the corresponding packages. In case of pptp those will be network-manager-pptp and network-manager-pptp-gnome. The you can follow the configuration instruction for each VPN type. After the creation, it will appear as a new connection in nm-tray. One thing to consider is that nm-tray does not support password asking, so either you save the password FOR ALL USERS or you will need to connect differently. One of the option is through terminal with typing

```
nmcli con up id <VPN_name> --ask changing <VPN_name>
```

with the actual VPN connection name. The other option is to use nm-applet, the “simil” to nm-tray from network-manager.gnome. You can run it from the terminal typing

```
nm-applet
```

and you will end up with 2 connection indicators in the tray. The you can connect to the VPN with nm-applet and after the connection is established, you can close nm-applet and the connection will still be present.

2.12.2 Changing nm-tray for nm-applet

If you don’t want to run by terminal nm-applet you could change nm-tray for nm-applet. You will need to change the autostart. The easiest form to do this from the GUI is in the Menu going to Preferences ▸ LXQt settings ▸ Session Settings. There go to the Autostart tab. You will see a list with checked and unchecked box, to autostart nm-applet, check Network to disable autostart for nm-tary uncheck nm-tray.

3 Contact Us

Do you have questions? Want to get involved? Take a look at our official website at Lubuntu.me[37] where you can find the Lubuntu blog[38], the Lubuntu discourse[39], ways to get in contact with us[40], and our gittea instance[41] where we do most of the Lubuntu development.

[37] https://lubuntu.me
[38] https://lubuntu.me/blog/
[39] https://discourse.ubuntu.com/c/flavors/lubuntu/343
[40] https://lubuntu.me/links/
[41] https://git.lubuntu.me/

4 Thank you!

Thank you for choosing to use Lubuntu!

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