

Linux

- What is Linux?
- Download Linux & make a bootable USB disk
- Install Linux
- Configure your Linux system
- Install useful Linux software
- Configure QGIS

MY LINUX BACKGROUND

- I spent a year working at the Amoco Research Center in the early 1990s. The only computer available for me was a Sun SPARCstation running Solaris, Sun's version of the UNIX operating system. I learned UNIX at the command line and grew to enjoy it. When I left Amoco I wanted my own UNIX system, but SPARCstations started at \$4,000.
- At the same time, a Finnish computer science graduate student named Linus Torvalds created a clone of the UNIX operating system that would run on PCs. He rewrote UNIX from scratch and uploaded his C-language code to the internet. It became known as 'Linux.'
- Developers around the world began downloading the source code, making improvements, and uploading the changes. This created the "opensource" software movement. Different distributions of Linux evolved and became separate product lines. The more successful ones (like Red Hat) eventually became commercial products. Linux runs the internet server backbone and 500 of the world's fastest supercomputers. The Android operating system for cell phones is a version of Linux. Linux now has the largest installed base of all computer operating systems.
- I've been downloading, installing, and using different versions of Linux since the 1990s. The best version, in my opinion, is the one that we'll be using today. It's called "Linux Mint," and is the free product of a development team in Ireland.
- Hardware requirements: Linux will run on anything. An old laptop with a 30 gB hard disk and 4 gB of RAM is more than enough to run Linux. It will even run on a Chromebook.
- Linux is free, stable, small, and fast. I've used it exclusively in my work for the past 20 years.

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Browser address bar: <https://linuxmint.com>

Navigation links: Home, Download, Project, About, Links, Donate

Linux Mint logo

"Zena"

Linux Mint 22.3

The latest version of the friendly operating system is here. Install it on your computer today!

[Download](#) [Installation Instructions](#)

Latest version

Linux Mint 22.3 **Recommended**

Other versions

LMDE 7

All Versions

Checkout the doc!

Follow the guide to learn how to download and install Linux Mint.

[Installation Guide](#)



You can always find the most recent Version of Linux Mint on its homepage:
<https://linuxmint.com>

Features

What is Linux Mint?

Linux Mint is an operating system for desktop and laptop computers. It is designed to work 'out of the box' and comes fully equipped with the apps most people need.



Productivity

With LibreOffice's complete office suite, use the word processor, make presentations, drawings, spreadsheets



Web

Browse the Web, watch Youtube and Netflix with Firefox. Turn any website into a desktop app for immediate access.

<https://linuxmint.com/#>



Home

Download ▾

Project ▾

About ▾

Links ▾

Donate

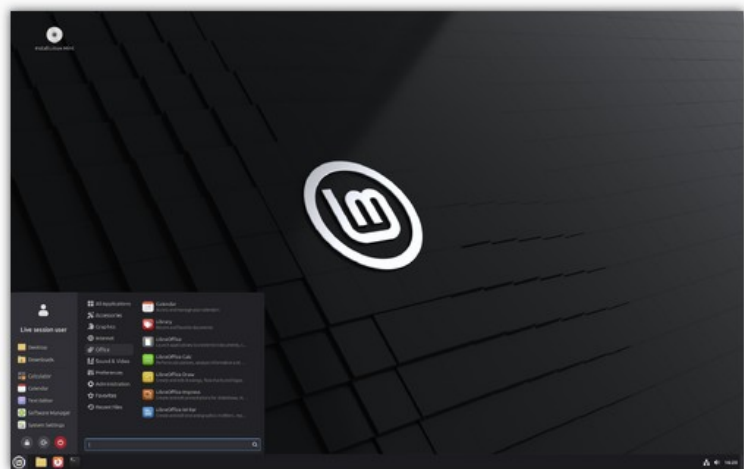
Linux Mint 22.3 'Zena'

Ready to download?

Linux Mint is available in different flavors. Choose an edition below.
For more information read the installation instructions.

Installation Instructions

Click the Download menu at the top and then click the Cinnamon Edition Download button below



Sleek, modern, innovative

Cinnamon Edition

The most popular version of Linux Mint is the Cinnamon edition. Cinnamon is primarily developed for and by Linux Mint. It is slick, beautiful, and full of new features.

Download

New Features

Release Notes

Light, simple, efficient



Linux Mint 22.3 "Zena"

Linux Mint 22.3

Cinnamon Edition

On this page you can download Linux Mint either directly or via torrent as an ISO image.
Make sure to verify your image after downloading it.



Information

- 📁 Size: 2.9GB
- 📖 Installation Guide
- 📢 Release Announcement
- 📄 Release Notes
- ⚡ Torrent Download: 64-bit

If this release does not boot on your computer, try an [HWE ISO](#).

Scroll down to choose a download "Mirror" location

Integrity & Authenticity

Anyone can produce fake ISO images, it is your responsibility to check you are downloading the official ones.
Download the ISO image, right-click->"Save Link As..." on the sha256sum.txt and sha256sum.txt.gpg buttons to save these files locally, then follow the instructions to verify your downloaded files.

Download mirrors

Download from one of the mirrors below.

64-bit

LOCATION	MIRROR
 World	Cicku
 World	Linux Mint
 Canada	All Things Linux
 Canada	Manitoba Unix User Group
 Canada	University of Calgary
 Canada	University of Waterloo Computer Science Club
 Canada	Zoki Poki (Canada)
 Mexico	UNAM
 USA	Clarkson University
 USA	ette.biz
 USA	Fremont Cabal Internet Exchange
 USA	GigeNET
 USA	Harvard School of Engineering

Click on a download mirror server in the USA. If the download seems slow, try a different mirror.

You'll wind up with an ISO file (disk image file) that is about 3 gB in size.

About **Download** Changelog Usage FAQ Source Code



Rufus

Create bootable USB drives the easy way

Rufus 3.20.1929

Drive Properties

Device: UBUNTU 22_0 (F:) [8 GB]

Boot selection: ubuntu-22.04-desktop-amd64.iso

Persistent partition size: 4 GB

Partition scheme: MBR Target system: BIOS or UEFI

☒ List USB Hard Drives

☐ Add fixes for old BIOSes (extra partition, align, etc.)

☐ Use Rufus MBR with BIOS ID 0x80 (Default)

Format Options

Volume label: Ubuntu 22.04 LTS amd64

File system: FAT32 (Default) Cluster size: 4096 bytes (Default)

☐ Show advanced format options

Status

READY

START CLOSE

Show the log

1 device found 00:00:29

Some of the recent versions of Windows have removed the option to make a bootable USB drive.

A great utility that will always make a bootable drive for you is Rufus.

Go out to <https://rufus.ie/en/> and download the .EXE file

Download

Latest releases:

Link	Type	Platform	Size	Date
rufus-4.14.exe	Standard	Windows x64	1.9 MB	2026.04.30
rufus-4.14p.exe	Portable	Windows x64	1.9 MB	2026.04.30
rufus-4.14_x86.exe	Standard	Windows x86	1.9 MB	2026.04.30
rufus-4.14_arm64.exe	Standard	Windows ARM64	5.1 MB	2026.04.30

[Other versions \(GitHub\)](#)

[Other versions \(dAppCDN\)](#)

System Requirements:

Windows 8 or later. Once downloaded, the application is ready to use.

Supported Languages:

Bahasa Indonesia, Bahasa Malaysia, Български, Čeština, Dansk, Deutsch, Ελληνικά, English, Español, Français, Hrvatski, Italiano, Latviešu, Lietuvių, Magyar, Nederlands, Norsk, Polski, Português, Português do Brasil, Русскиѡ, Română, Slovensky, Slovenščina, Srpski, Suomi, Svenska, Tiếng Việt, Türkçe, Українська, 简体中文, 正體中文, 日本語, 한국어, Ив, עברית, العربية, پارسی.

I will take this opportunity to express my gratitude to the translators who made it possible for Rufus, as well as this webpage, to be translated in various languages. If you find that you can use Rufus in your own language, you should really thank them!

Usage

Download the executable and run it – no installation is necessary.

The executable is digitally signed and the signature should state:

- "Akeo Consulting" (v1.3.0 or later)
- "Pete Batard - Open Source Developer" (v1.2.0 or earlier)

Notes on DOS support:

If you create a DOS bootable drive and use a non-US keyboard, Rufus will attempt to select a keyboard layout according to the locale of your system.

Notes on ISO Support:

All versions of Rufus since v1.1.0 allow the creation of a bootable USB from an ISO image (.iso).

This is the file you want

Select your USB drive here

Select your downloaded
iso file here

Click "Start" to make a
bootable USB drive

Rufus 4.13.2316

Drive Properties

Device: NO_LABEL (F:) [8 GB]

Boot selection: linuxmint-22.3-cinnamon-64bit.iso ☒

Persistent partition size: 0 (No persistence)

Partition scheme: MBR Target system: BIOS or UEFI

☒ Show advanced drive properties

Format Options

Volume label: Linux Mint 22.3 Cinnamon 64-bit

File system: FAT32 (Default) Cluster size: 4096 bytes (Default)

☒ Show advanced format options

Status

READY

Using image: linuxmint-22.3-cinnamon-64bit.iso

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To change the boot device in the BIOS:

- Make sure that your laptop is off. Insert your bootable USB drive and turn your machine on.
- You have to interrupt the boot cycle to tell your machine to boot from an external USB device.
- Each brand of computer seems to do this differently:
 - Lenovo machines have a tiny, recessed button on the side that will boot into the BIOS
 - HP machines want you to repeatedly press the Escape key while booting
 - Dell machines require you to repeatedly press the F12 key
 - You may have to do an internet search to find the correct key combination for your laptop

Use the (Up) and (Down) arrow keys to move the pointer to the desired boot device.
Press [Enter] to attempt the boot or ESC to Cancel.

LEGACY BOOT:

USB Storage Device
Internal HDD (SATA)
CD/DVD/CD-RW Drive
Onboard NIC

UEFI BOOT:

UEFI: INT13(RAID,0x80)
UEFI: INT13(,0x81)

OTHER OPTIONS:

BIOS Setup
Diagnostics
Intel(R) Management Engine BIOS Extension (MEBx)

Insert your USB drive before
booting your computer.

Interrupt the boot sequence
with the appropriate key
combination, then select
your USB drive as the boot
device



Welcome to Linux Mint 22.2

Start Linux Mint

Start Linux Mint in compatibility mode

OEM install (for manufacturers)

Hardware Detection

Boot from local drive

Memory test

Press [Tab] to edit options

Automatic boot in 4 seconds...

Linux will start the install by itself, or you can press the Enter key to speed things up.


```

iwlwifi 0000:03:00.0: can't disable ASPM; OS doesn't have ASPM control
at24 0-0050: supply vcc not found, using dummy regulator
iwlwifi 0000:03:00.0: Direct firmware load for iwlwifi-6000-6.ucode failed with
error -2
iwlwifi 0000:03:00.0: Direct firmware load for iwlwifi-6000-5.ucode failed with
error -2
[ OK ] Reached target smartcard.target - Smart Card.
Starting systemd-rfkill.service - Load/Save RF Kill Switch Status...
[ OK ] Started systemd-rfkill.service - Load/Save RF Kill Switch Status.
systemd-rfkill.service
[ OK ] Created slice system-systemd\x2dba... - Slice /system/systemd-backlight.
Starting modprobe@dm_mod.service - Load Kernel Module dm_mod...
Starting modprobe@efi_pstore.servi... - Load Kernel Module efi_pstore...
Starting modprobe@loop.service - Load Kernel Module loop...
Starting systemd-backlight@leds:dell::ness of leds:dell::kbd_backlight...
[ OK ] Finished modprobe@dm_mod.service - Load Kernel Module dm_mod.
[ OK ] Finished modprobe@efi_pstore.service - Load Kernel Module efi_pstore.
[ OK ] Finished modprobe@loop.service - Load Kernel Module loop.
systemd-backlight@leds:dell::kbd_backlight.service
[ OK ] Finished systemd-backlight@leds:dell::kbd_backlight.service.
[ OK ] Finished console-setup.service - Set console font and keymap.
console-setup.service
[ 26.624141] nouveau 0000:01:00.0: drm: failed to create ce channel, -22
nouveau 0000:01:00.0: drm: failed to create ce channel, -22
Starting systemd-backlight@backlight:acpi_video0.service - Load/Save Screen Backlight Brightness of backlight:acpi_video0...
Starting systemd-backlight@backlight:acpi_video1.service - Load/Save Screen Backlight Brightness of backlight:acpi_video1...
systemd-backlight@backlight:acpi_video0.service
[ OK ] Finished systemd-backlight@backlight:acpi_video0.service - Load/Save Screen Backlight Brightness of backlight:acpi_video0.
[ OK ] Finished systemd-backlight@backlight:acpi_video1.service - Load/Save Screen Backlight Brightness of backlight:acpi_video1.
systemd-backlight@backlight:acpi_video1.service
Starting modprobe@dm_mod.service - Load Kernel Module dm_mod...
Starting modprobe@efi_pstore.service - Load Kernel Module efi_pstore...
Starting modprobe@loop.service - Load Kernel Module loop...
[ OK ] Finished modprobe@dm_mod.service - Load Kernel Module dm_mod.
[ OK ] Finished modprobe@efi_pstore.service - Load Kernel Module efi_pstore.
[ OK ] Finished modprobe@loop.service - Load Kernel Module loop.

```

The display may shift to a smaller font as Linux determines your video controller and screen resolution

Install Linux Mint



Linux will boot to this “live demo” screen. Click on the network icon at the bottom right and see if wifi is on. Select the name of your wifi router and connect to it.

Wired cable unplugged

Wireless ☒

Leadline_IOT2.4Ghz	90%
DIRECT-D3EFA2E	80%
NDL-Guest	82%
NDLWL2	77%
TS9030 ATMOS SB-6073.1034	64%
More	

Network Settings

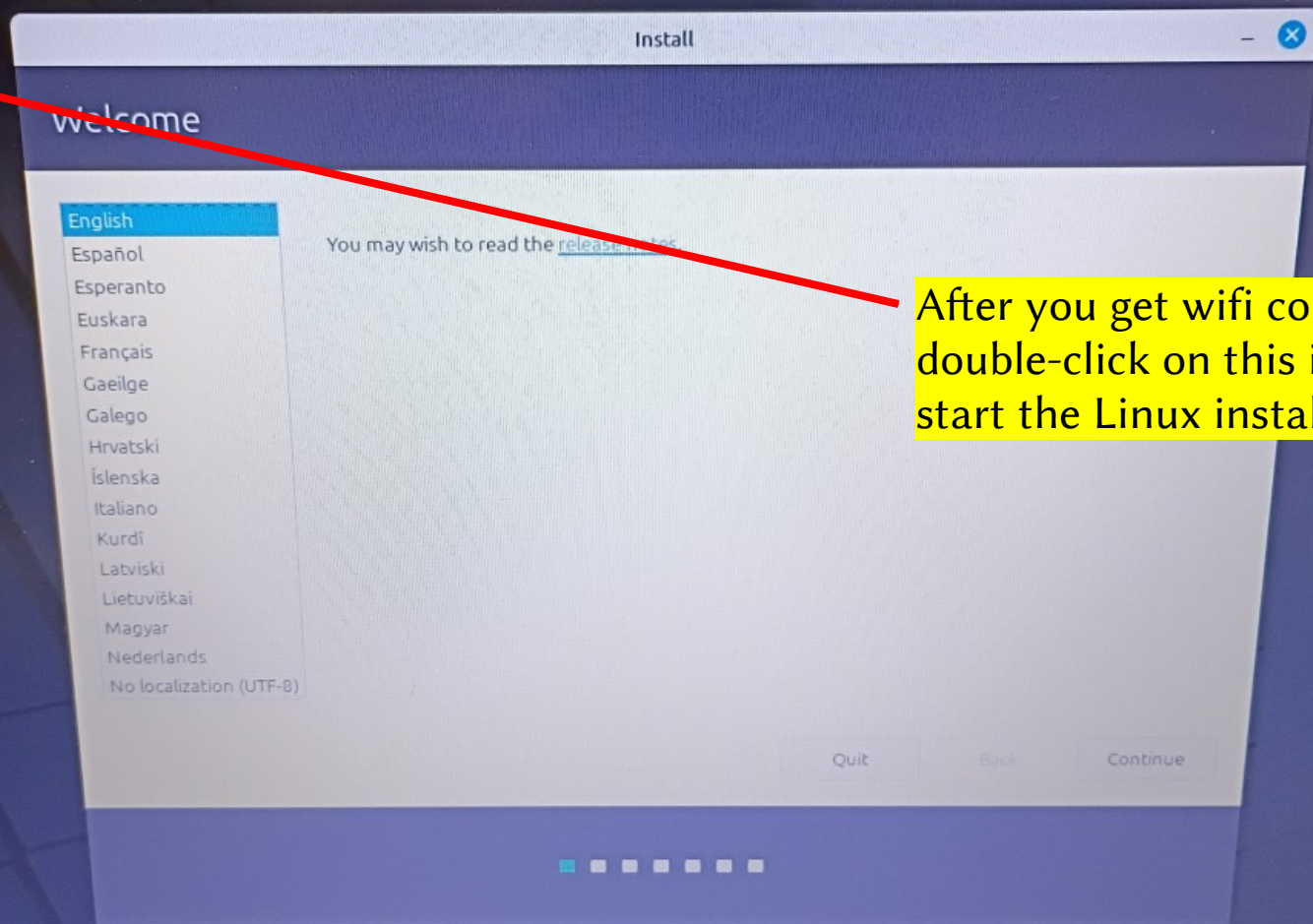
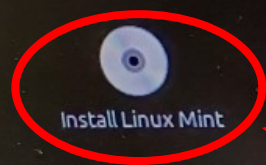
Network Connections



If Linux can't find your wifi adapter, you may need to invest \$10 in a USB wifi dongle.

Linux has always been able to find and connect to wifi if I use one of these.





After you get wifi connected,
double-click on this icon to
start the Linux installation



Install

Keyboard layout

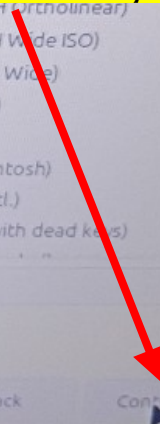
Choose your keyboard layout:

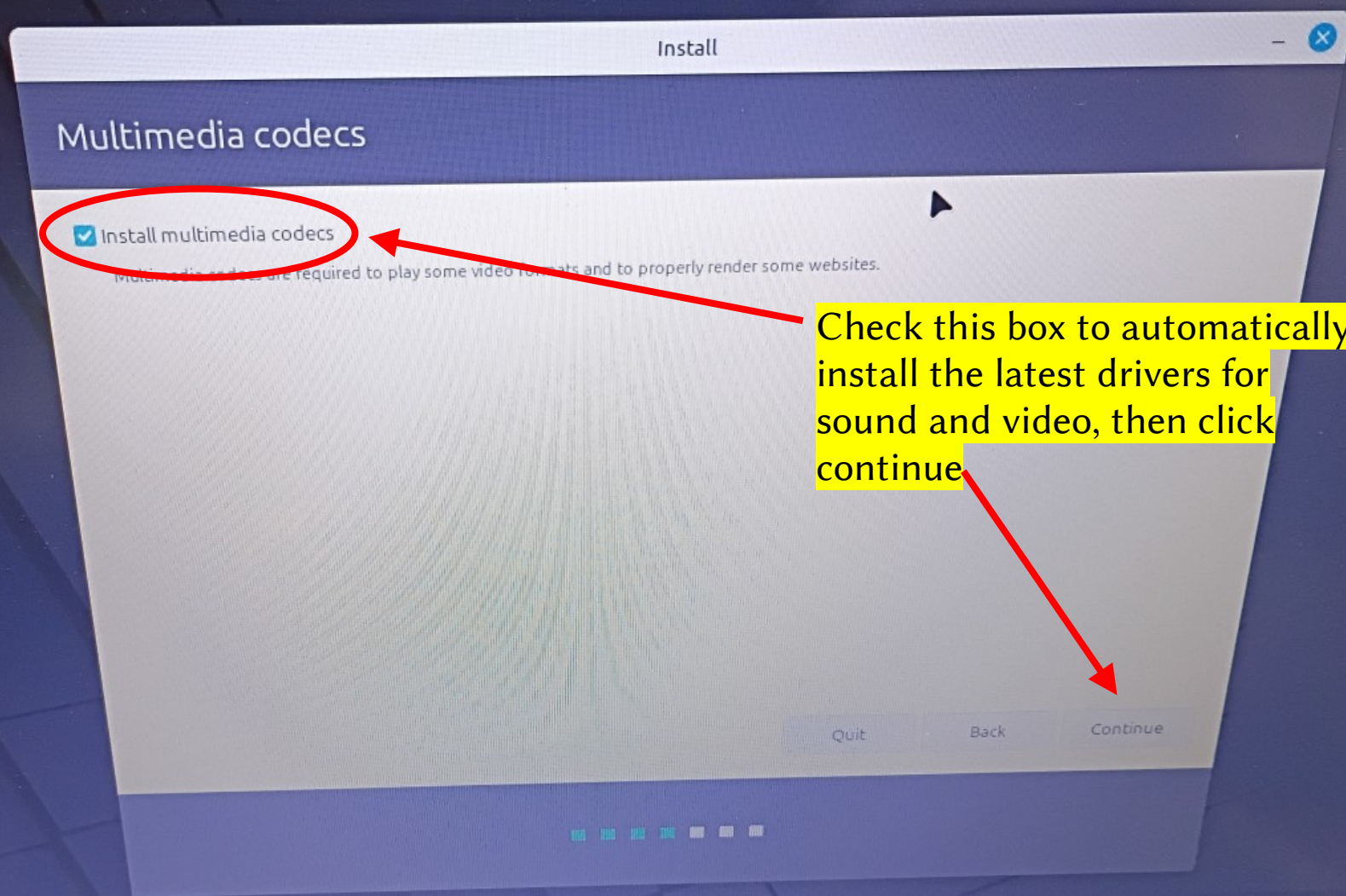
English (Cameroon)	English (US)
English (Ghana)	English (US) - C
English (New Zealand)	English (US) - E
English (Nigeria)	English (US) - E
English (South Africa)	English (US) - English (Colemak-DH Ortholinear)
English (UK)	English (US) - English (Colemak-DH Wide ISO)
English (US)	English (US) - English (Colemak-DH Wide)
Esperanto	English (US) - English (Colemak-DH)
Estonian	English (US) - English (Dvorak)
Faroese	English (US) - English (Dvorak, Macintosh)
Filipino	English (US) - English (Dvorak, alt. intl.)
Finnish	English (US) - English (Dvorak, intl., with dead keys)
French	

Detect Keyboard Layout

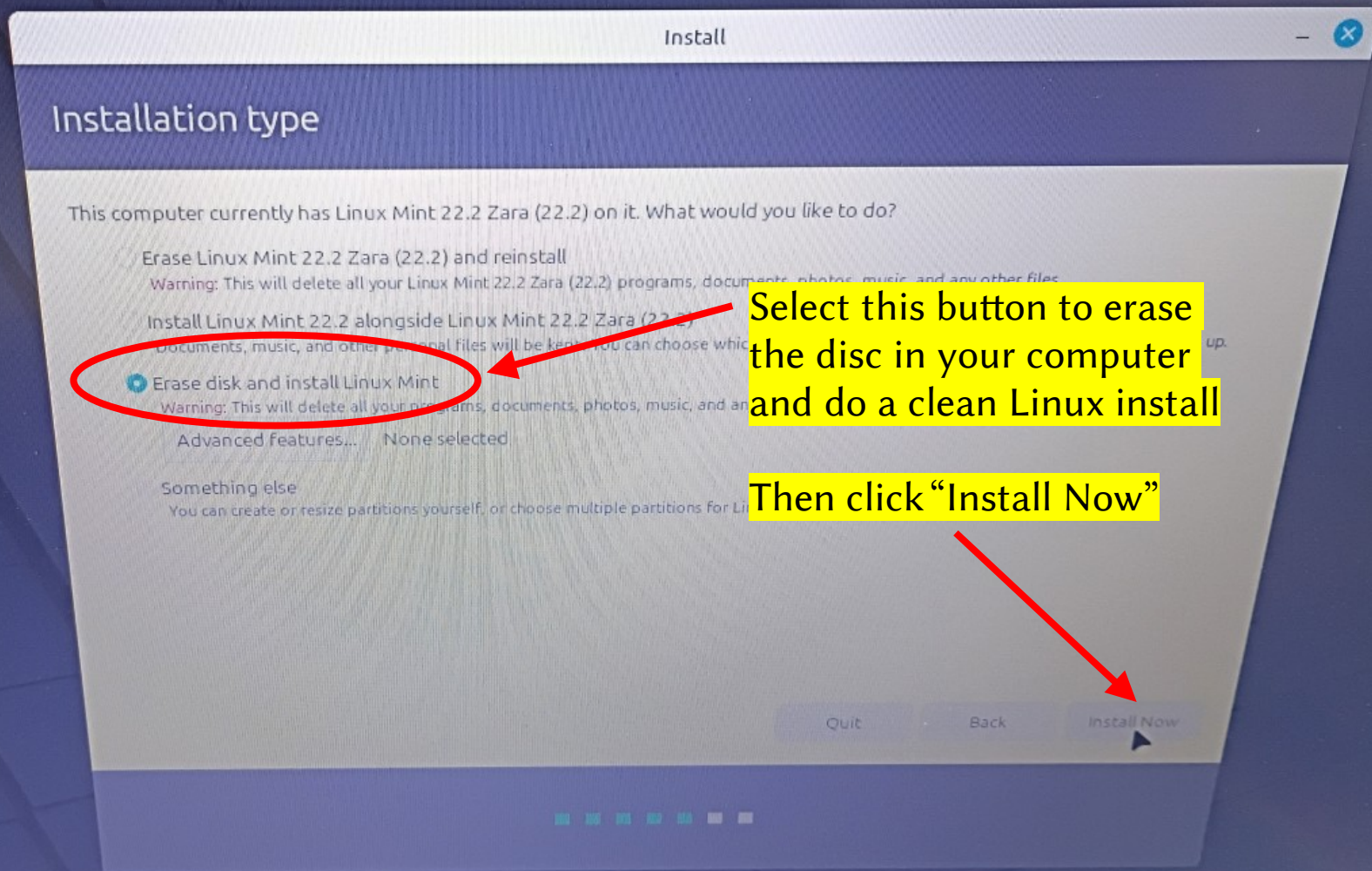
Quit Back Continue

Accept the default settings
for keyboard layout



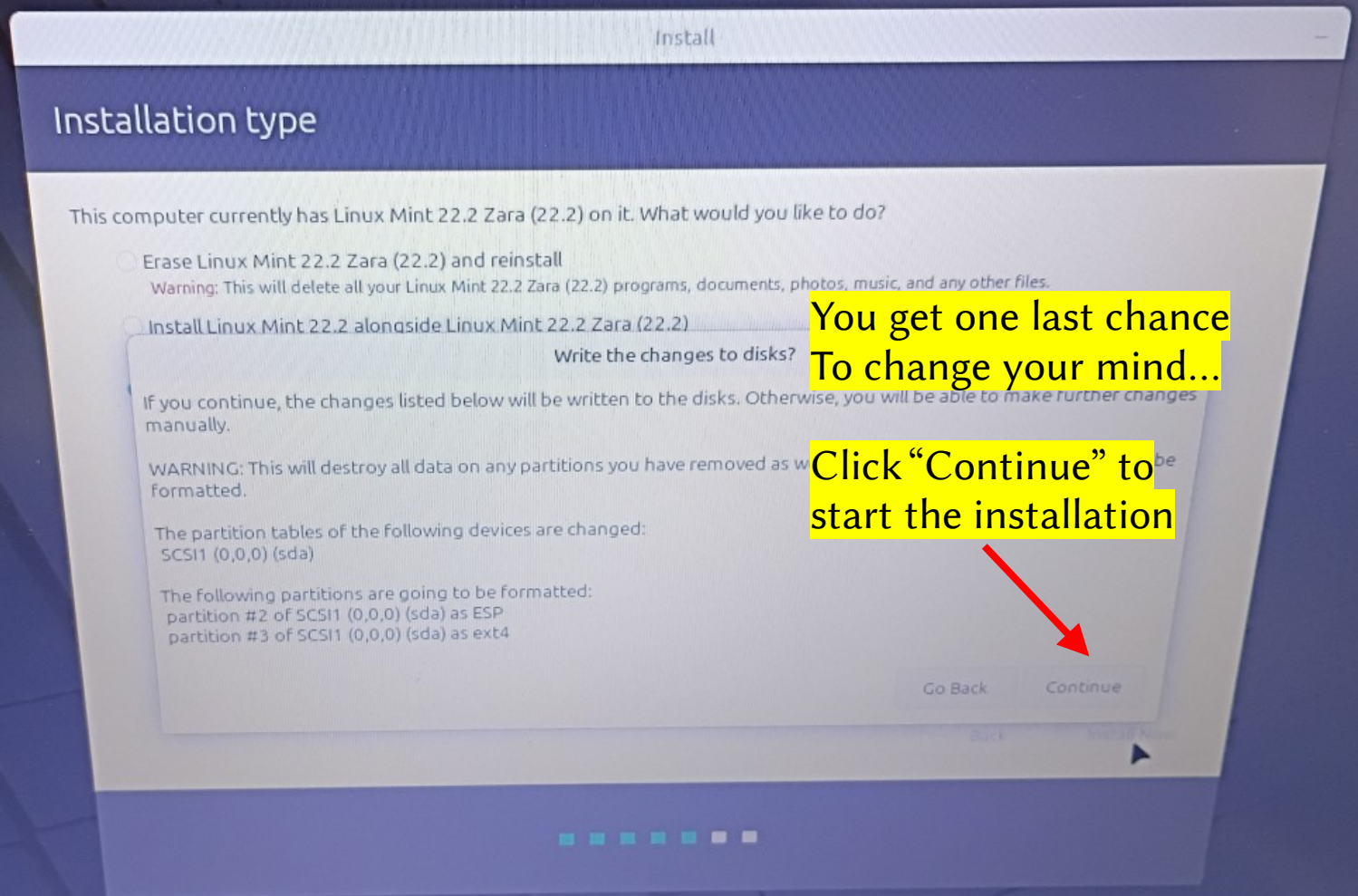


Check this box to automatically install the latest drivers for sound and video, then click continue



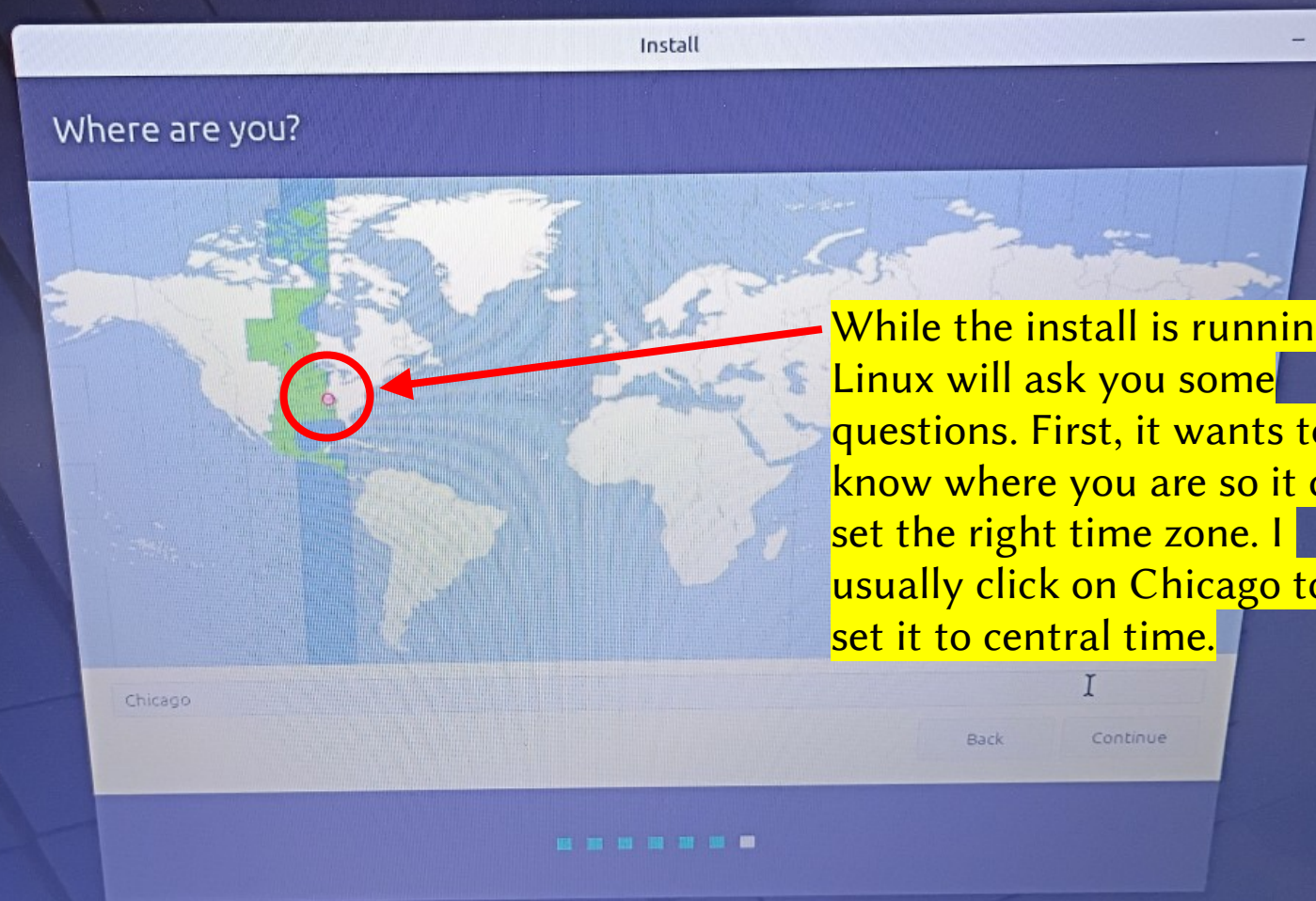
Select this button to erase the disc in your computer and do a clean Linux install

Then click "Install Now"

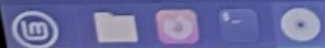


You get one last chance
To change your mind...

Click "Continue" to
start the installation



While the install is running, Linux will ask you some questions. First, it wants to know where you are so it can set the right time zone. I usually click on Chicago to set it to central time.





Install

Who are you?

Your name: ✓

Your computer's name: ✓
The name it uses when it talks to other computers.

Pick a username: ✓

Choose a password: Fair password

Confirm your password: ✓

☐ Log in automatically

☒ Require my password to log in

☐ Encrypt my home folder

Progress: 1 of 6 steps

Enter your name, your computer's name (it will show up as this name on a network), and enter a password, twice.

Write it down!

(You'll need it later)



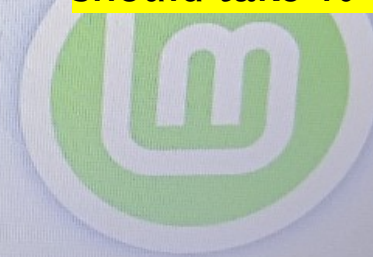
Install Linux Mint

Install

Welcome to Linux Mint

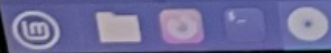
Welcome and thank you for choosing Linux Mint. This slideshow will show you around while the system is being installed on your computer.

The automatic installation should take 10-15 minutes



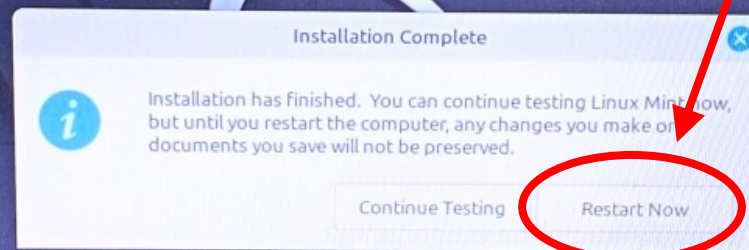
▶ Creating ext4 file system for / in partition #3 of SCSI1 (0,0,0) (sda)...

Skip



Install Linux Mint

Click the "Restart Now"
button when done



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Damfino

us 13:45

scott



Password



Linux will now boot to this screen. Type your password and press Enter

DELL



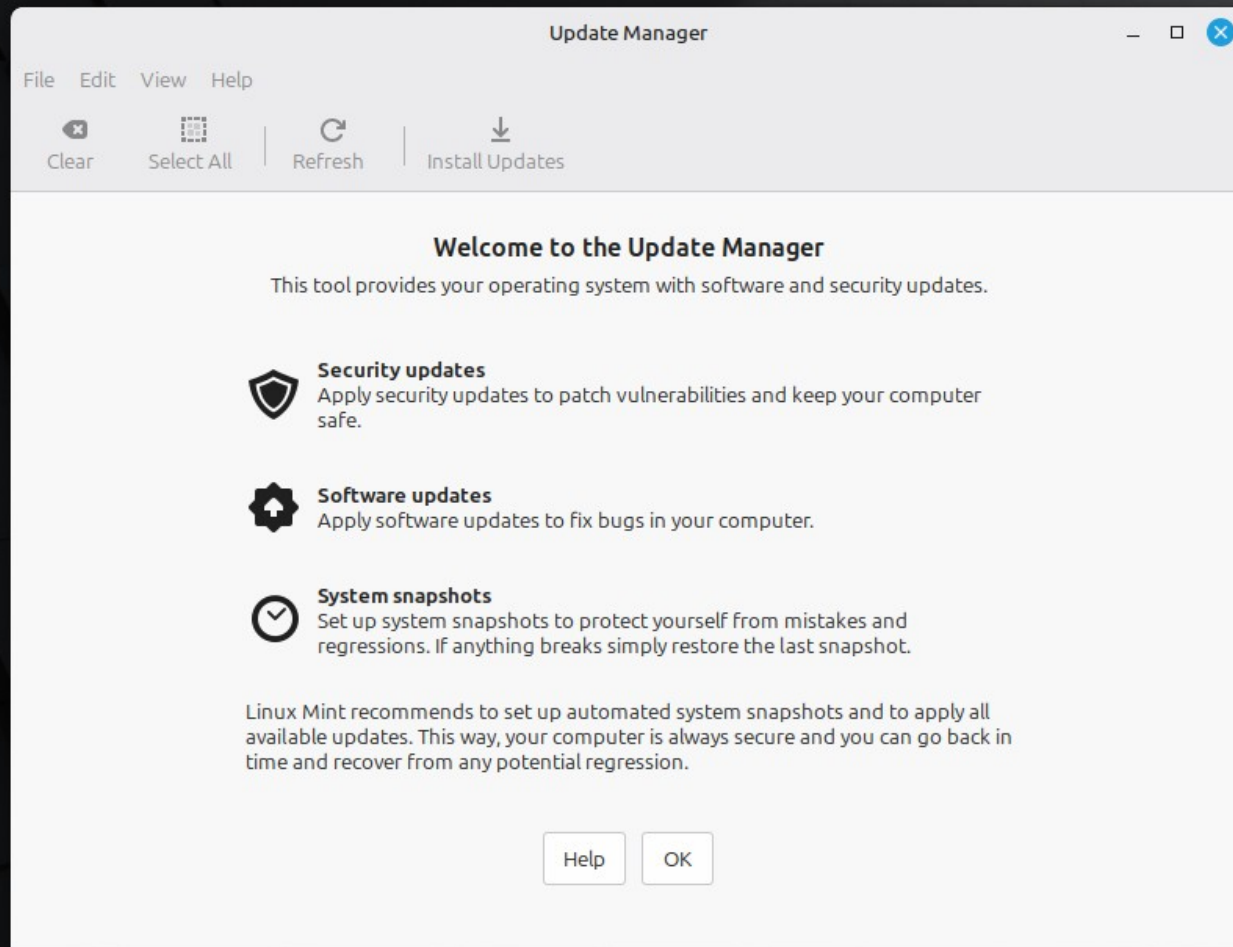
This is your Linux desktop

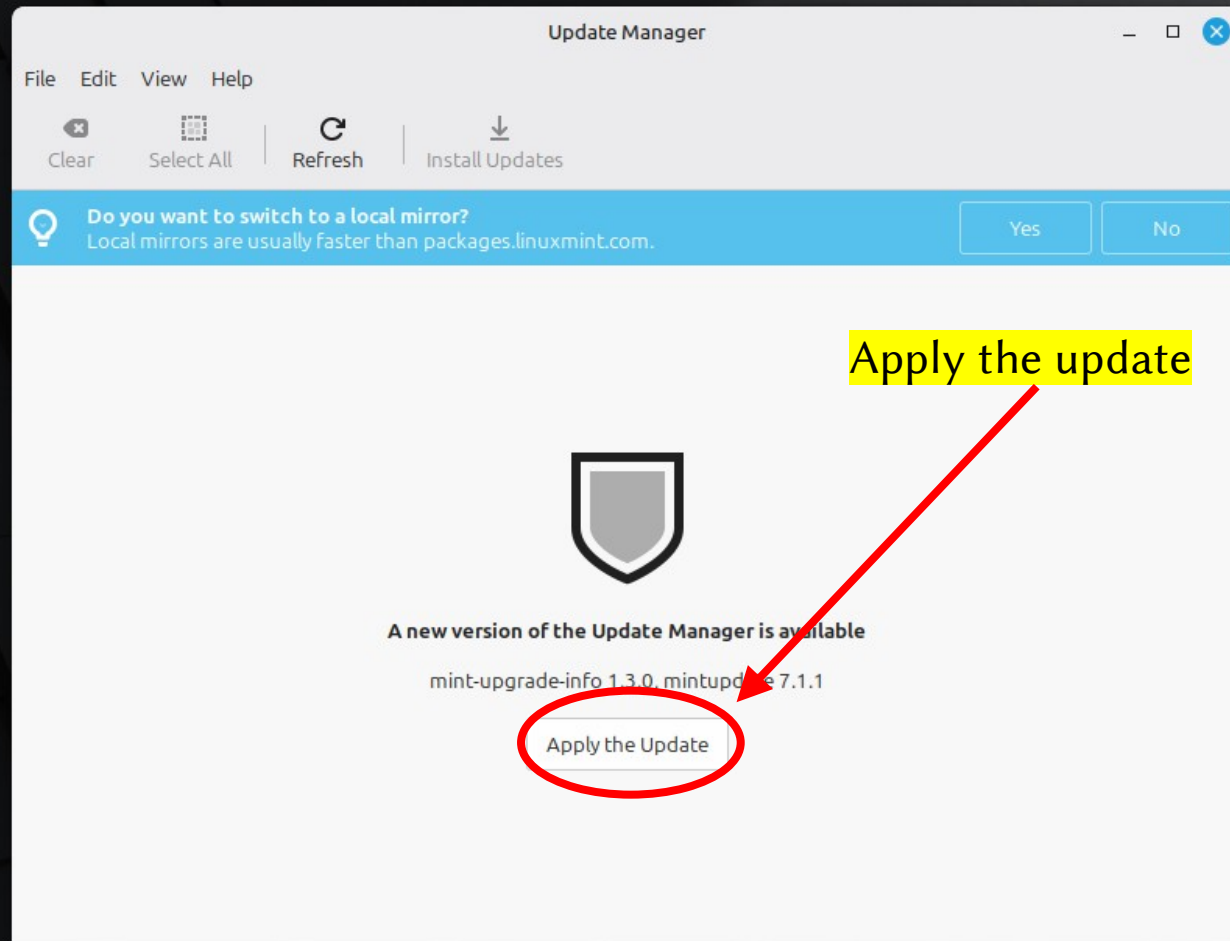
Let's set up a few things

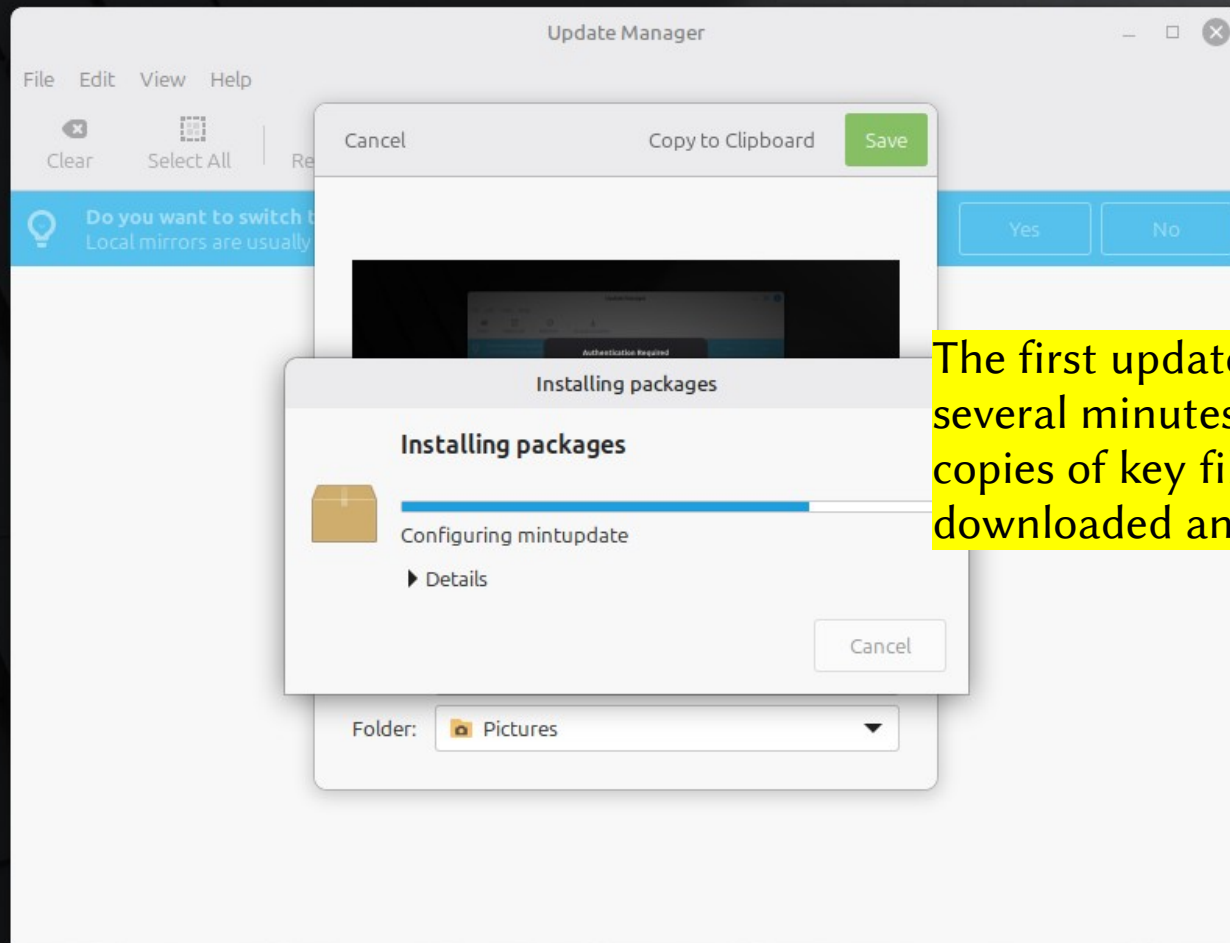
Click on the Update Manager icon at the bottom

Welcome to the Update Manager

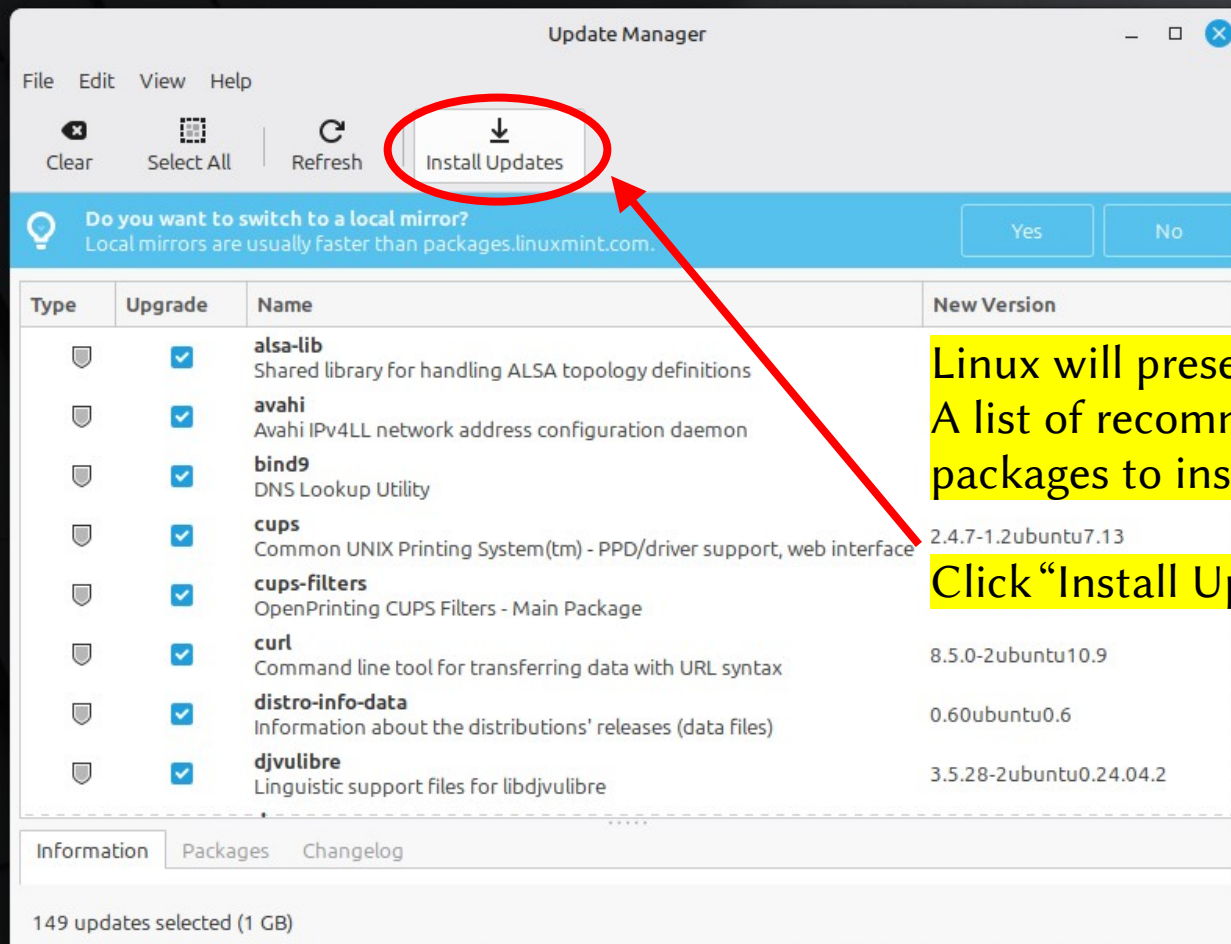






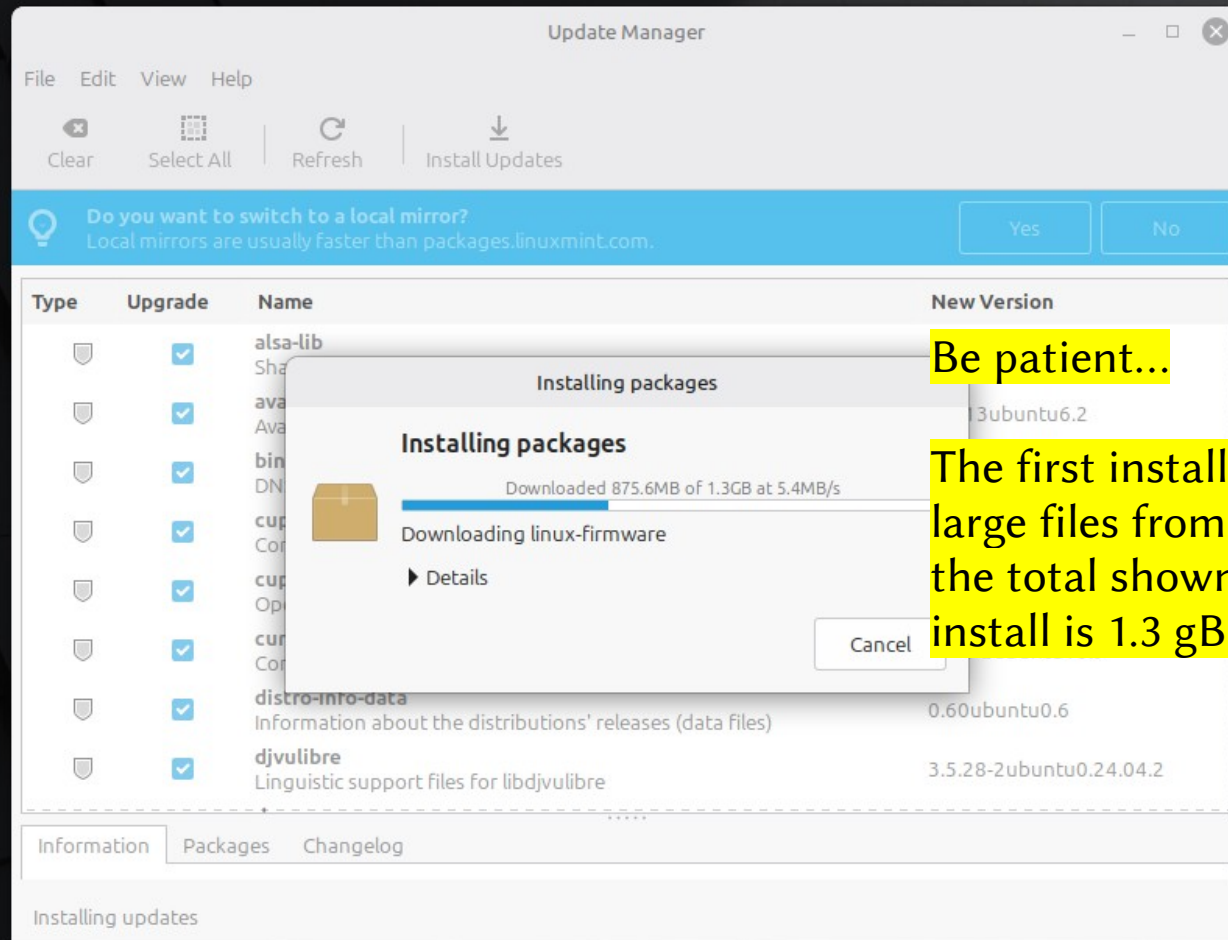


The first update may take several minutes, as fresh copies of key files are downloaded and installed



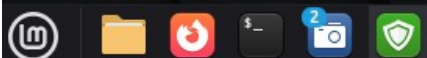
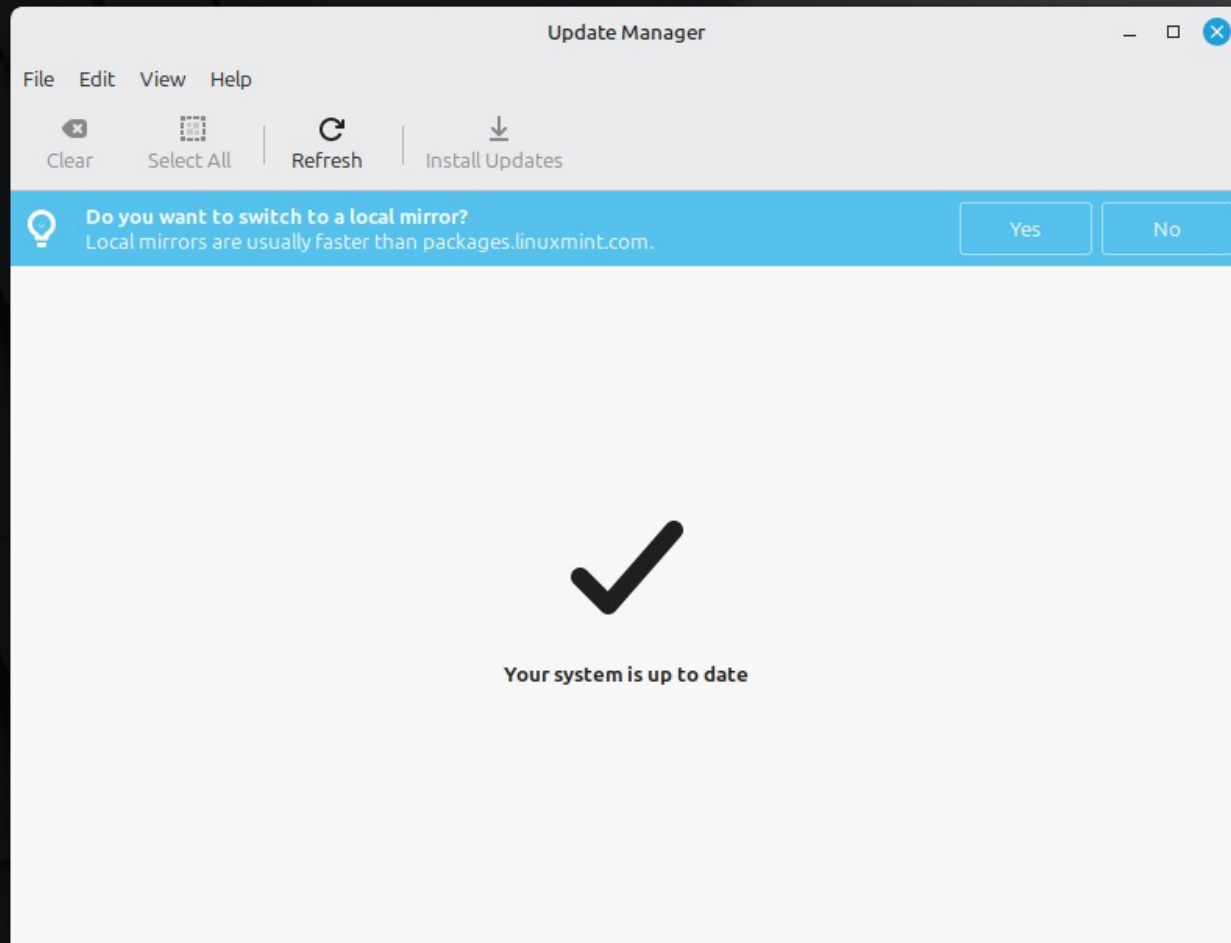
Linux will present you with
A list of recommended
packages to install.

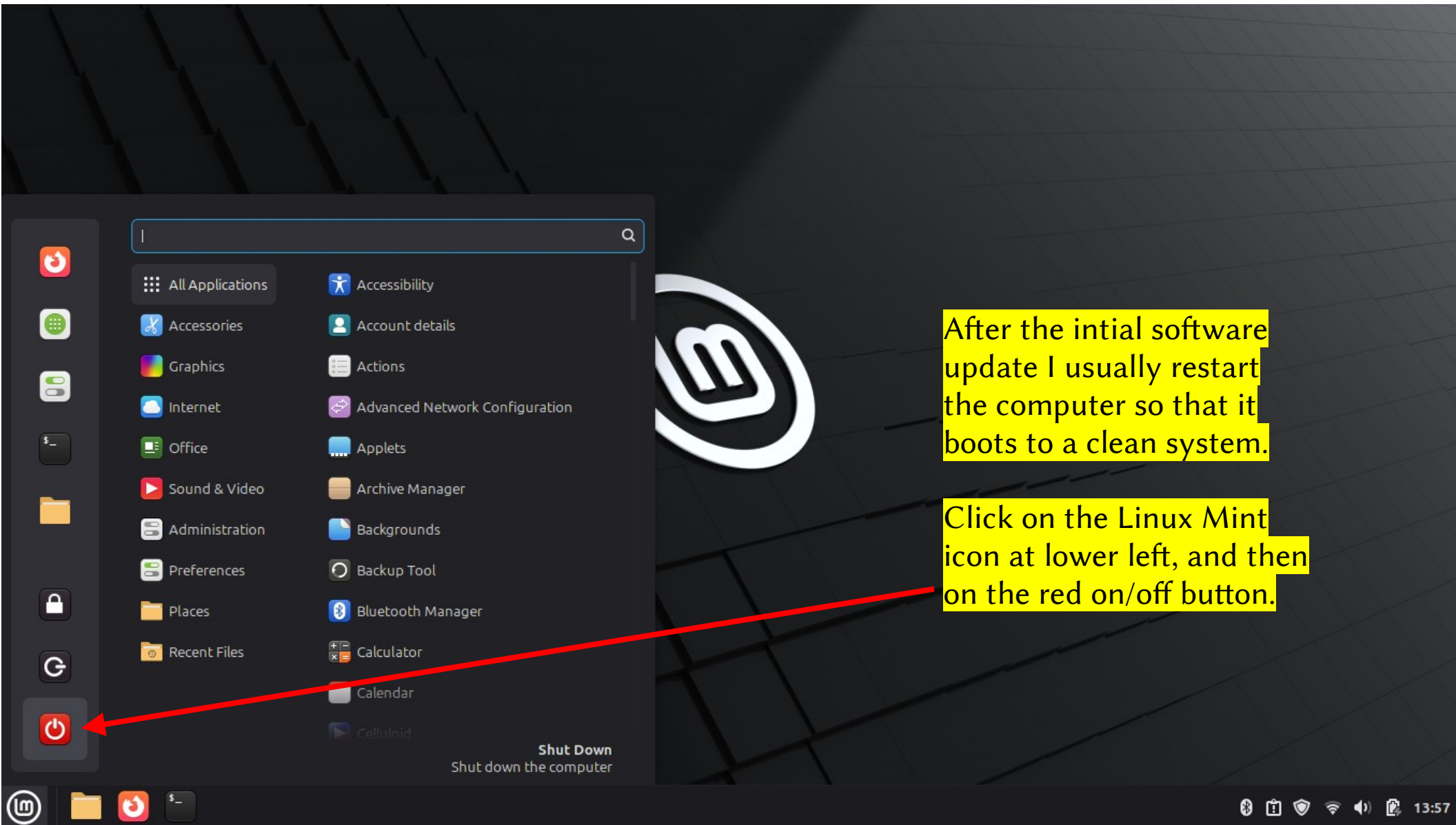
Click "Install Updates"



Be patient...

The first install can pull some large files from the internet. the total shown for this install is 1.3 gB.

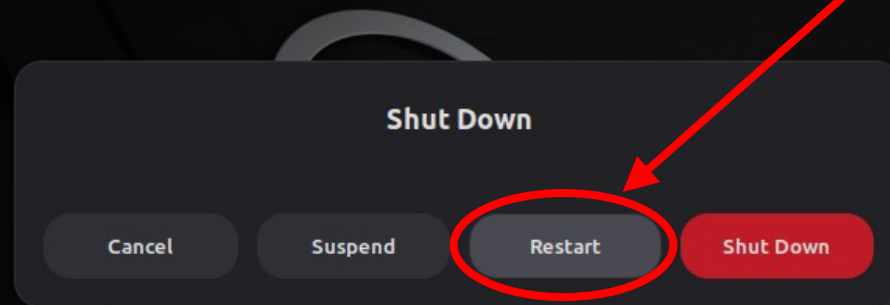




After the initial software update I usually restart the computer so that it boots to a clean system.

Click on the Linux Mint icon at lower left, and then on the red on/off button.

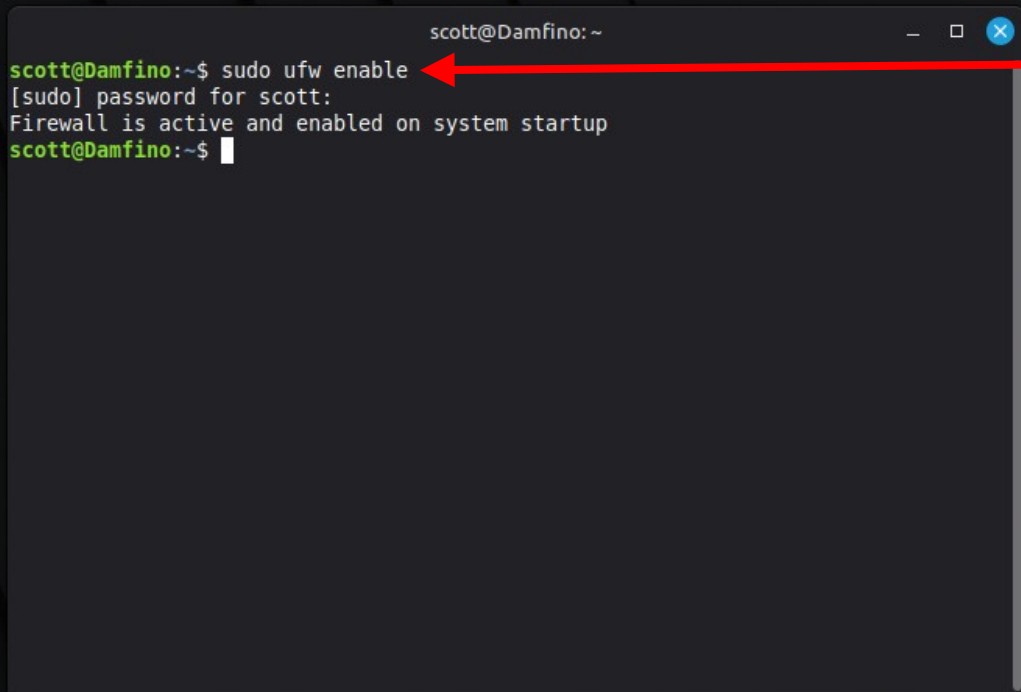
Click the "Restart" button





After restarting and logging back in, click on the Terminal icon

Terminal



```
scott@Damfino: ~  
scott@Damfino:~$ sudo ufw enable  
[sudo] password for scott:  
Firewall is active and enabled on system startup  
scott@Damfino:~$
```

In the terminal window, type:

`sudo ufw enable`

“sudo” tells the system that the following command is to be executed at the highest (root) privilege level

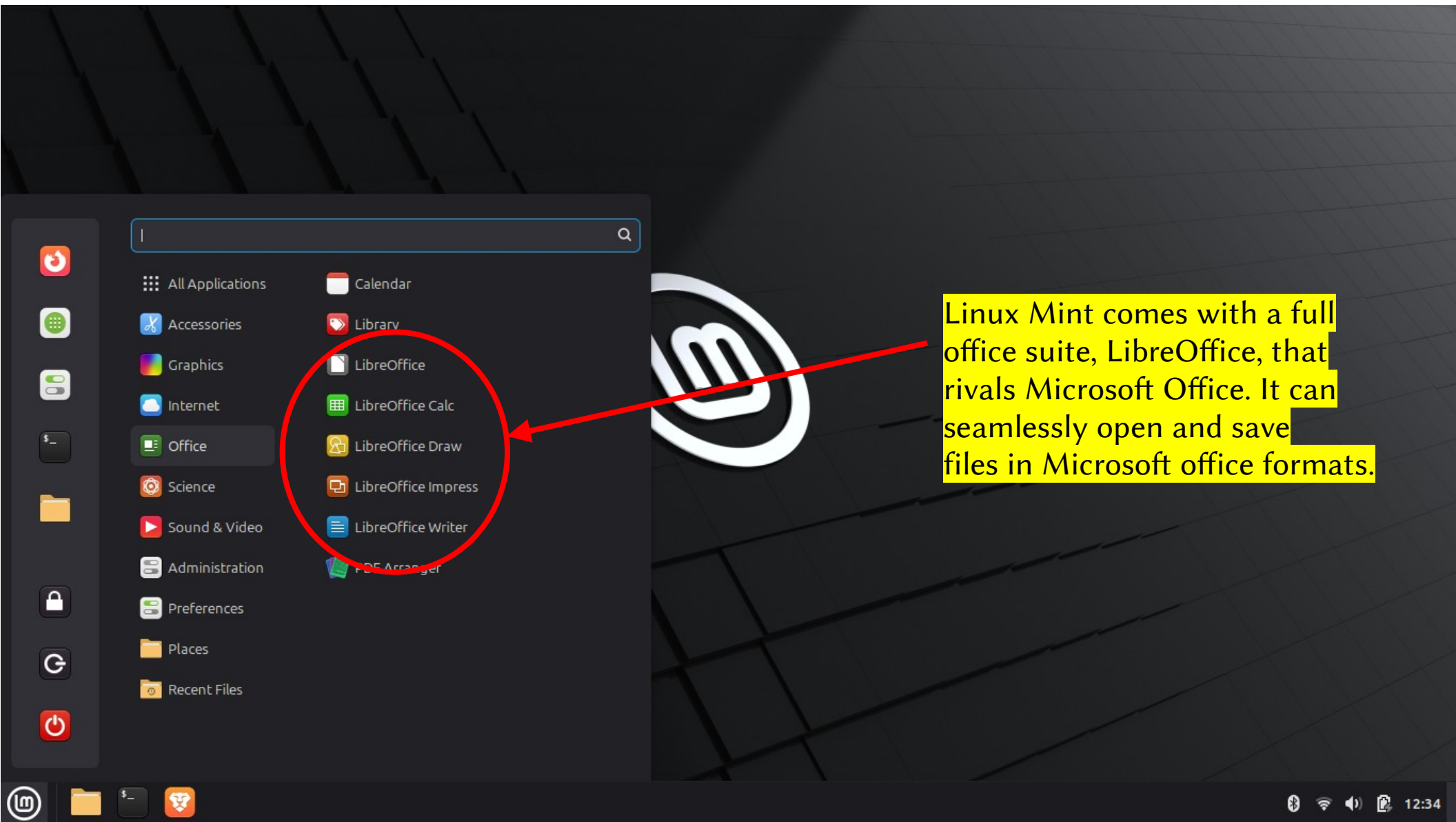
“ufw” stands for Universal FireWall. This command tells Linux to always enable it on system startup.

After entering your password, the firewall will now protect your system while it is connected to the internet.

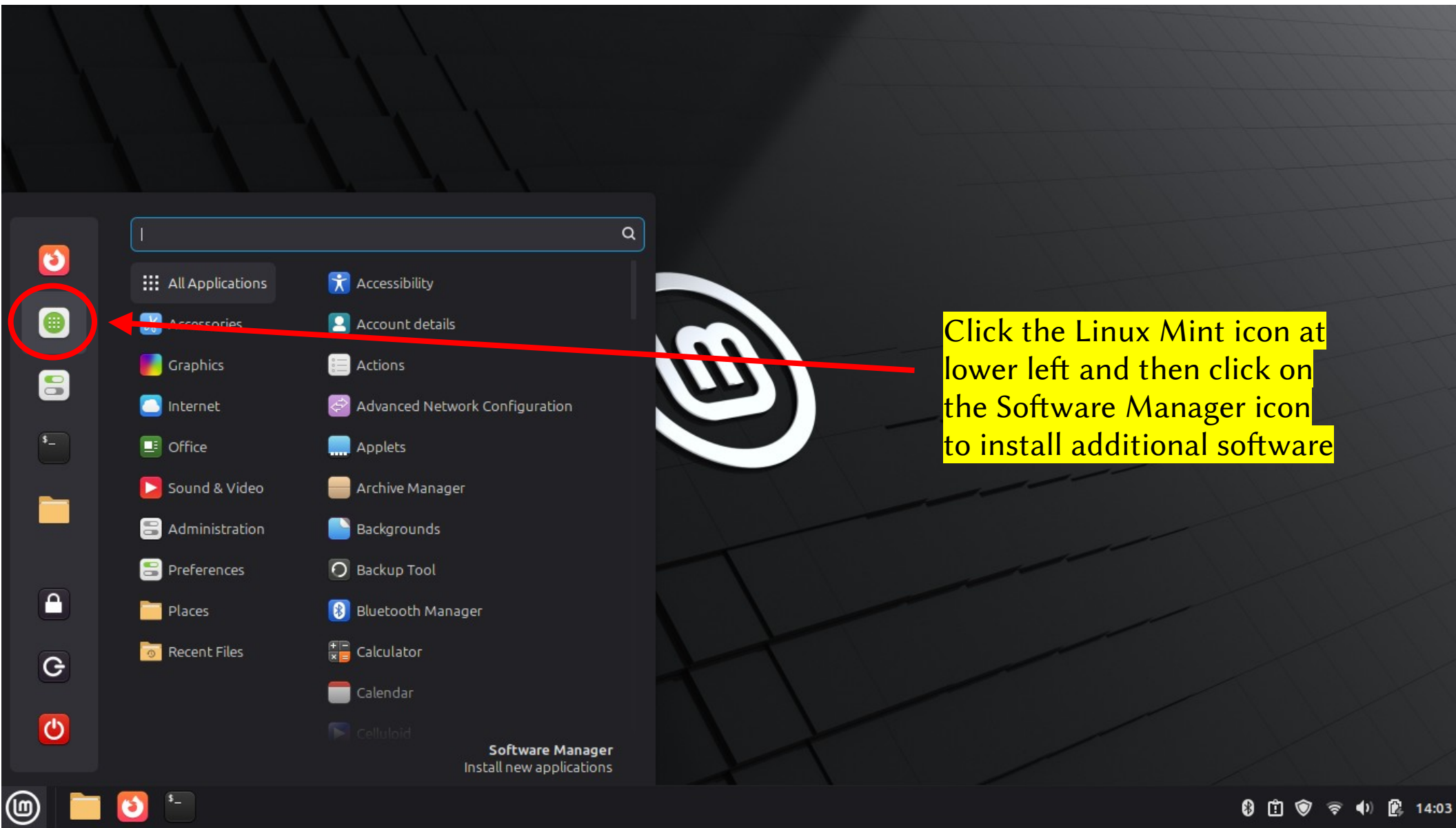
Terminal

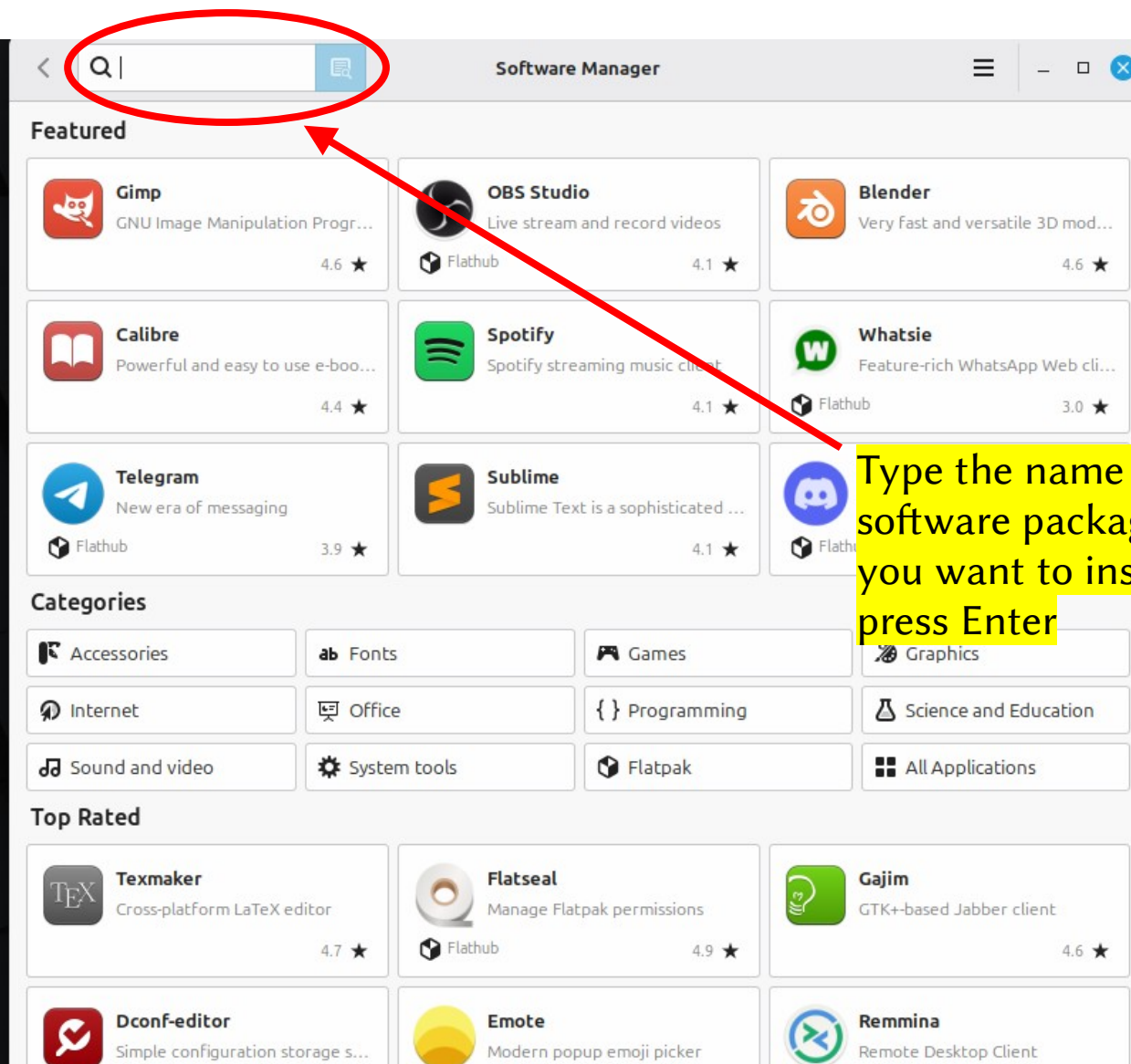
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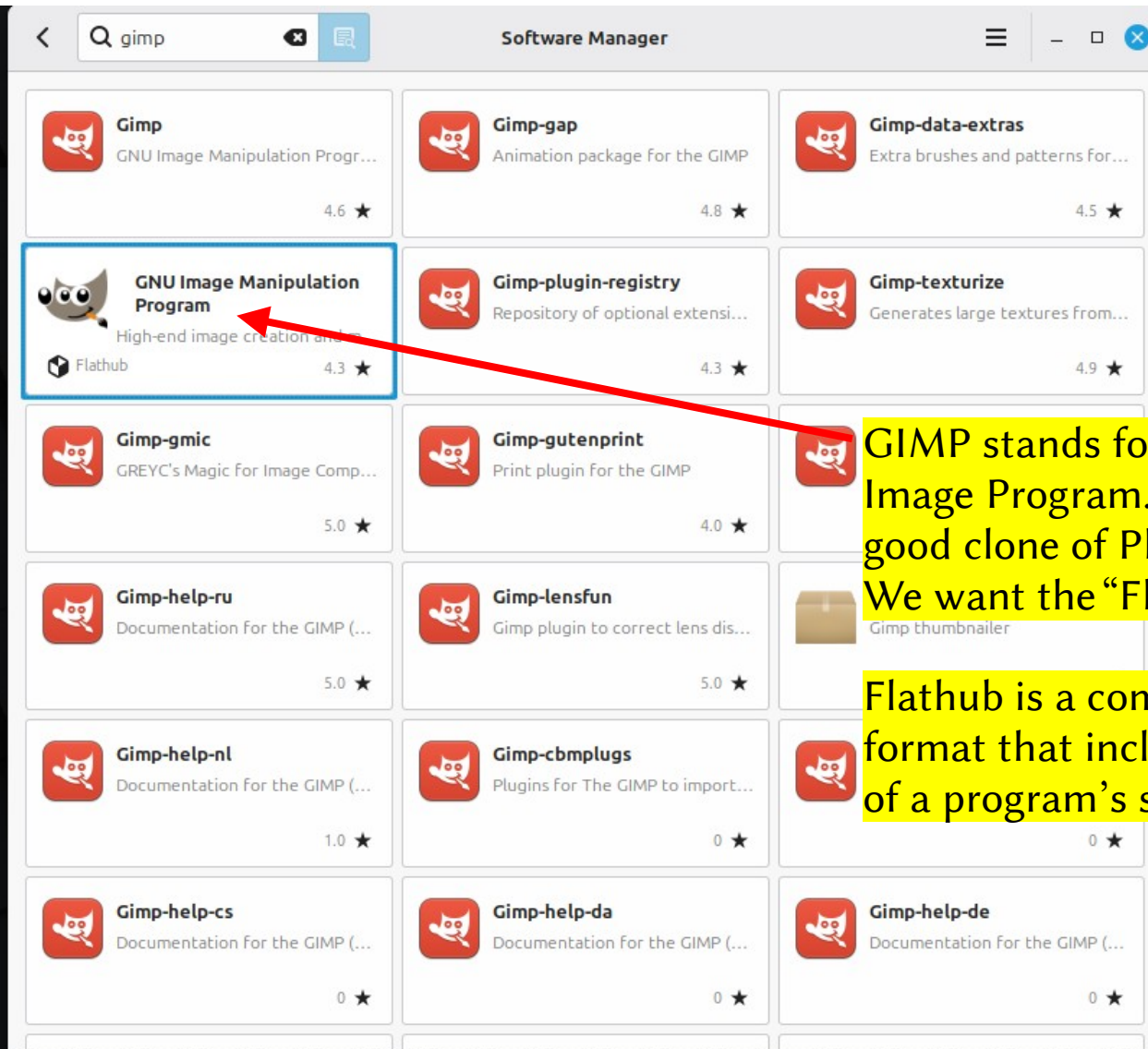


Linux Mint comes with a full office suite, LibreOffice, that rivals Microsoft Office. It can seamlessly open and save files in Microsoft office formats.





Type the name of the software package that you want to install and press Enter



GIMP stands for “Graphic Image Program.” It’s a very good clone of Photoshop. We want the “Flathub” version.

Flathub is a compressed file format that includes all of a program’s support files.

Software Manager

GNU Image Manipulation Program
High-end image creation and manipulation
by The GIMP team

Install

Flatpak (Flathub)

Click install

Details

Name: org.gimp.GIMP
Version: 3.2.4
Size: 1.2 GB to download, 3.9 GB of disk space required
Branch: stable
Remote: Flathub
[Homepage](#) [Documentation](#)

Reviews

Optional components

★★★★★ 4.3
43 Reviews

GIMP is an acronym for GNU Image Manipulation Program. It is Community-driven

gimp

Software Manager



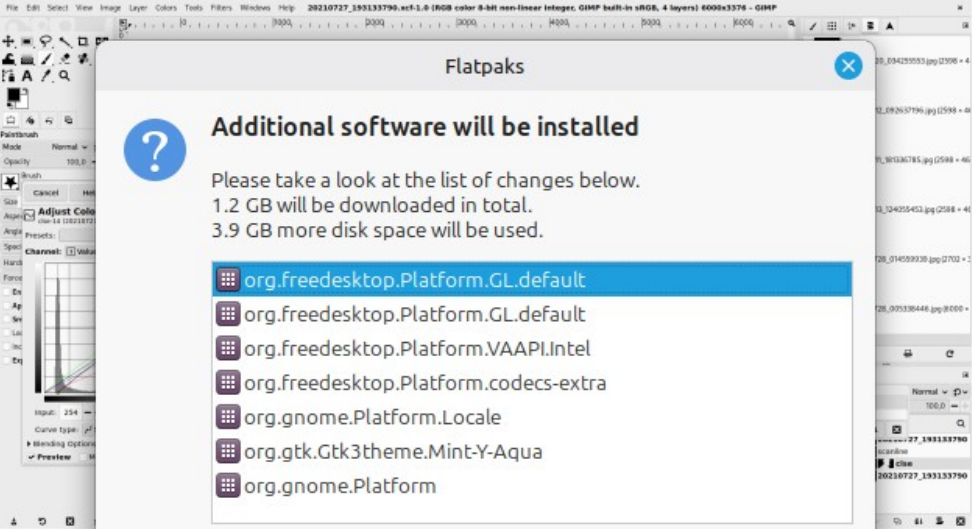
GNU Image Manipulation Program

High-end image creation and manipulation

by The GIMP team

Install

 Flatpak (Flathub)



?

Additional software will be installed

Please take a look at the list of changes below.
1.2 GB will be downloaded in total.
3.9 GB more disk space will be used.

- org.freedesktop.Platform.GL.default
- org.freedesktop.Platform.GL.default
- org.freedesktop.Platform.VAAPI.Intel
- org.freedesktop.Platform.codecs-extra
- org.gnome.Platform.Locale
- org.gtk.Gtk3theme.Mint-Y-Aqua
- org.gnome.Platform

Cancel

Continue

Details

Name: **org.gimp.GIMP**

Version: 3.2.4

Size: 1.2 GB to download, 3.9 GB of disk space required

Branch: stable

Remote: Flathub

[Homepage](#) [Documentation](#)

GIMP is an acronym for GNU Image Manipulation Program. It is Community-driven

★★★★★ 4.3

43 Reviews

★★★★★

29

★★★★

5

★★★

4

★★

3

★

2

Software Manager

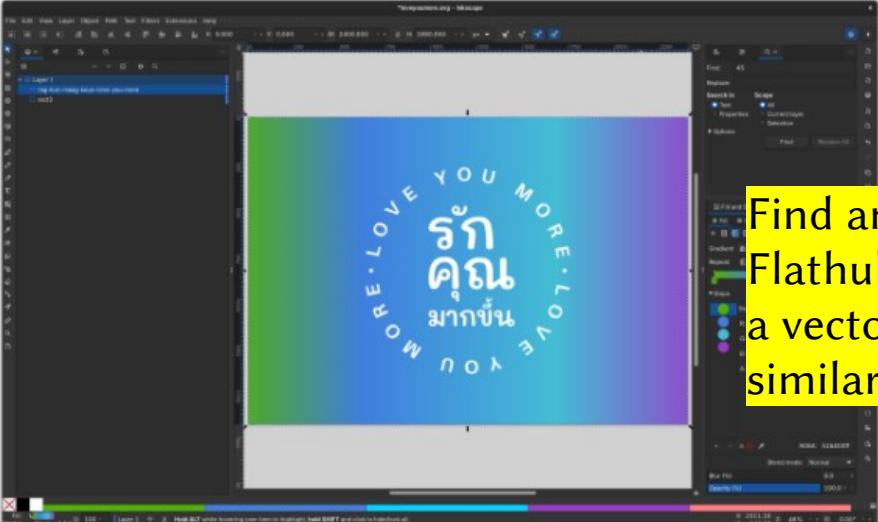
ink

Inkscape

Vector Graphics Editor
by The Inkscape Community

Install

Flatpak (Flathub)



Details

Name: **org.inkscape.Inkscape**

Version: 1.4.4

Size: 521 MB to download, 1.4 GB of disk space required

Branch: stable

Remote: Flathub

[Homepage](#) [Documentation](#)

Reviews

★★★★☆ 4.4
15 Reviews

★★★★★ 10
★★★★ 2
★★★ 2
★★ 1
★ 0

A Free and open source vector graphics editor. It offers a rich set of

Find and install the
Flathub version of Inkscape,
a vector graphics program
similar to Adobe Illustrator

Software Manager

QGIS Desktop
A Free and Open Source Geographic Information System
by QGIS Development Team

Install

Flatpak (Flathub)

QGIS 4cc6650 - google_roads

Project Edit View Layer Settings Plugins Vector Raster Database Web Processing Help

Layers Panel

- lines
- roads
- motorway
- motorway bridge
- motorway bridge I2
- motorway bridge I1
- motorway tunnel
- trunk & primary
- trunk & primary bridge I2
- trunk & primary bridge I1

Browser Panel

- Project home
- Home
- Favourites
- D:\Documents\Geodata\Natura
- created maps
- Natural_Earth_quick_start
- 10m_cultural
- ne_10m_admin_1_states
- ne_10m_admin_0_bou
- ne_10m_admin_0_bou
- ne_10m_admin_0_bou

There is a plugin update available

Details

Name: **org.qgis.qgis**

Version: 3.28.9

Size: 1.4 GB to download, 4.2 GB of disk space required

Branch: stable

Remote: Flathub

[Homepage](#) [Documentation](#)

Reviews

★★★★★ 4.2

5 Reviews

★★★★ 4

★★★★ 0

★★★ 0

★★ 0

★ 1

QGIS is a user friendly Open Source Geographic Information System (GIS)

Find and install the Flathub version of QGIS, an opensource GIS system

< Software Manager



Saga

System for Automated Geoscientific Analyses

Install

 System Package



No screenshots available

Details

Reviews

Name: **saga**

Version: 9.3.1+dfsg-3build3

Size: 39 MB to download, 145 MB of disk space required

[Homepage](#)

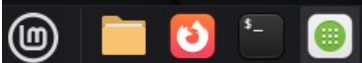
★★★★★ 5.0

2 Reviews

★★★★★	2
★★★★	0
★★★	0
★★	0
★	0

SAGA GIS (System for Automated Geoscientific Analyses) is a free and open source geographic information system used for

Install the Saga System for
Automated Geoscientific
Analyses



Software Manager

viewnior

Viewnior
Simple, fast and elegant image viewer

Install

System Package

No screenshots available

Details

Name: **viewnior**
Version: 1.8-3build2
Size: 139 kB to download, 663 kB of disk space required
[Homepage](#)

Reviews

★★★★☆ 4.5
2 Reviews

★★★★★	1
★★★★	1
★★★	0
★★	0
★	0

This is Viewnior, an image viewer program. Created to be simple, fast and elegant. Its minimalistic interface provides more

Install Viewnior if you need to open large TIFF files, like well log images. It is much faster than the default image viewer, and it will open larger files.

Software Manager

Search: earth

Google Earth

Explore, search and discover the planet

Install

System Package



Details

Name: **google-earth-pro-stable**

Version: 7.3.6.9796-r0

Size: 57 MB to download, 256 MB of disk space required

Reviews

★★★★☆ 3.3

50 Reviews

Rating	Count
★★★★★	20
★★★★	7
★★★	5
★★	6
★	12

Google Earth lets you fly anywhere to see satellite imagery, 3D buildings, 3D trees, terrain, Street View, planets and much

Google Earth is always handy to have

Software Manager

PDF Arranger

Merge, shuffle, and crop PDFs

by The PDF Arranger team

Install

Flatpak (Flathub)

untitled [Inter-design-program] - PDF Arranger

Inter-design-program page 1

Inter-design-program page 2

Inter-design-program page 3

Inter-design-program page 4

Inter-design-program page 5

Inter-design-program page 6

Inter-design-program page 7

Inter-design-program page 8

Inter-design-program page 9

Inter-design-program page 10

Selected pages: / 11

Details

Name: [com.github.jeromerobert.pdfarranger](https://github.com/jeromerobert/pdfarranger)

Version: 1.14.0

Size: 47 MB to download, 138 MB of disk space required

Branch: stable

Remote: Flathub

[Homepage](#) [Documentation](#)

Reviews

★★★★★ 4.9

11 Reviews

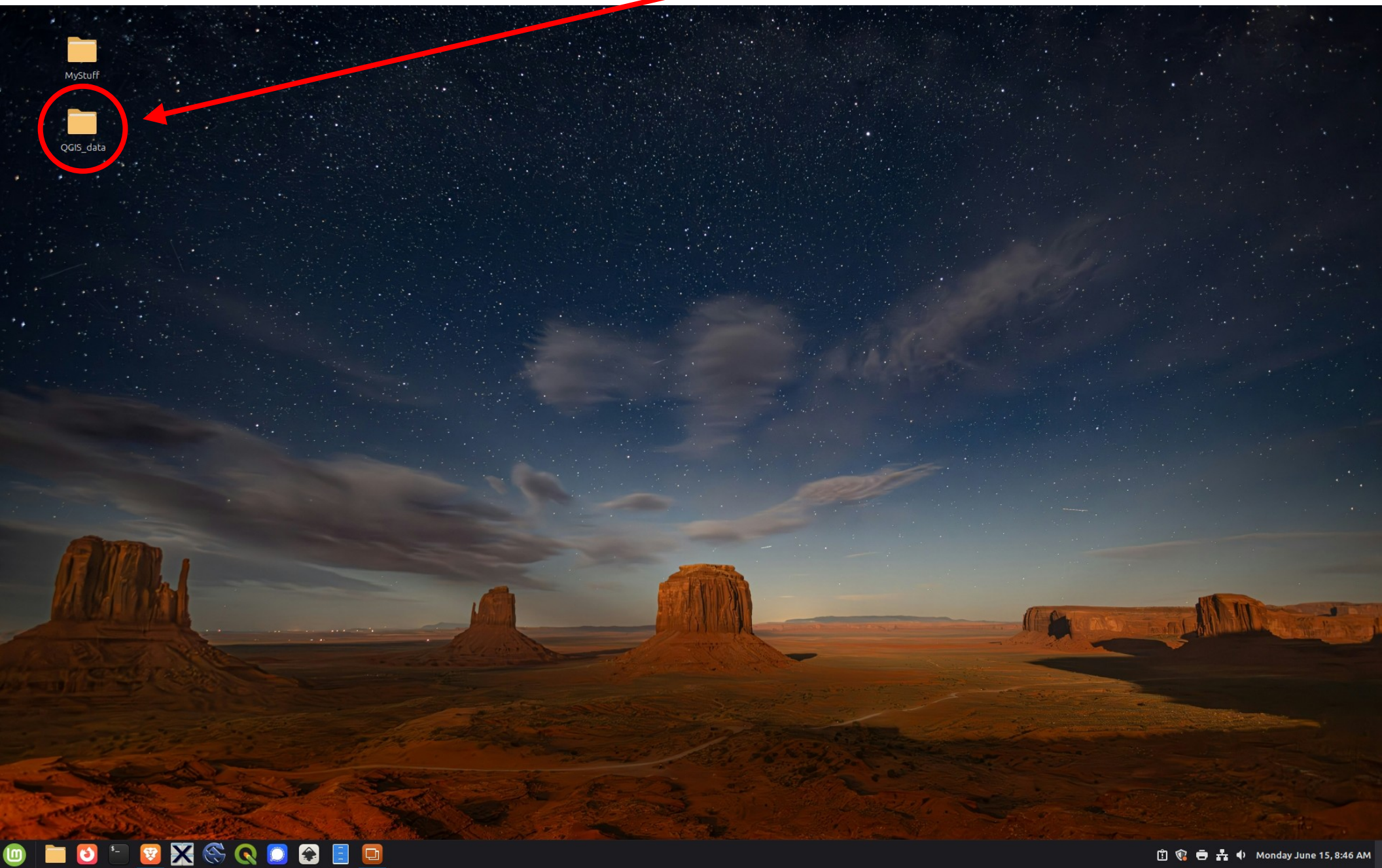
PDF Arranger is a small application, which helps the user to merge or split

PDF Arranger lets you open and edit PDFs

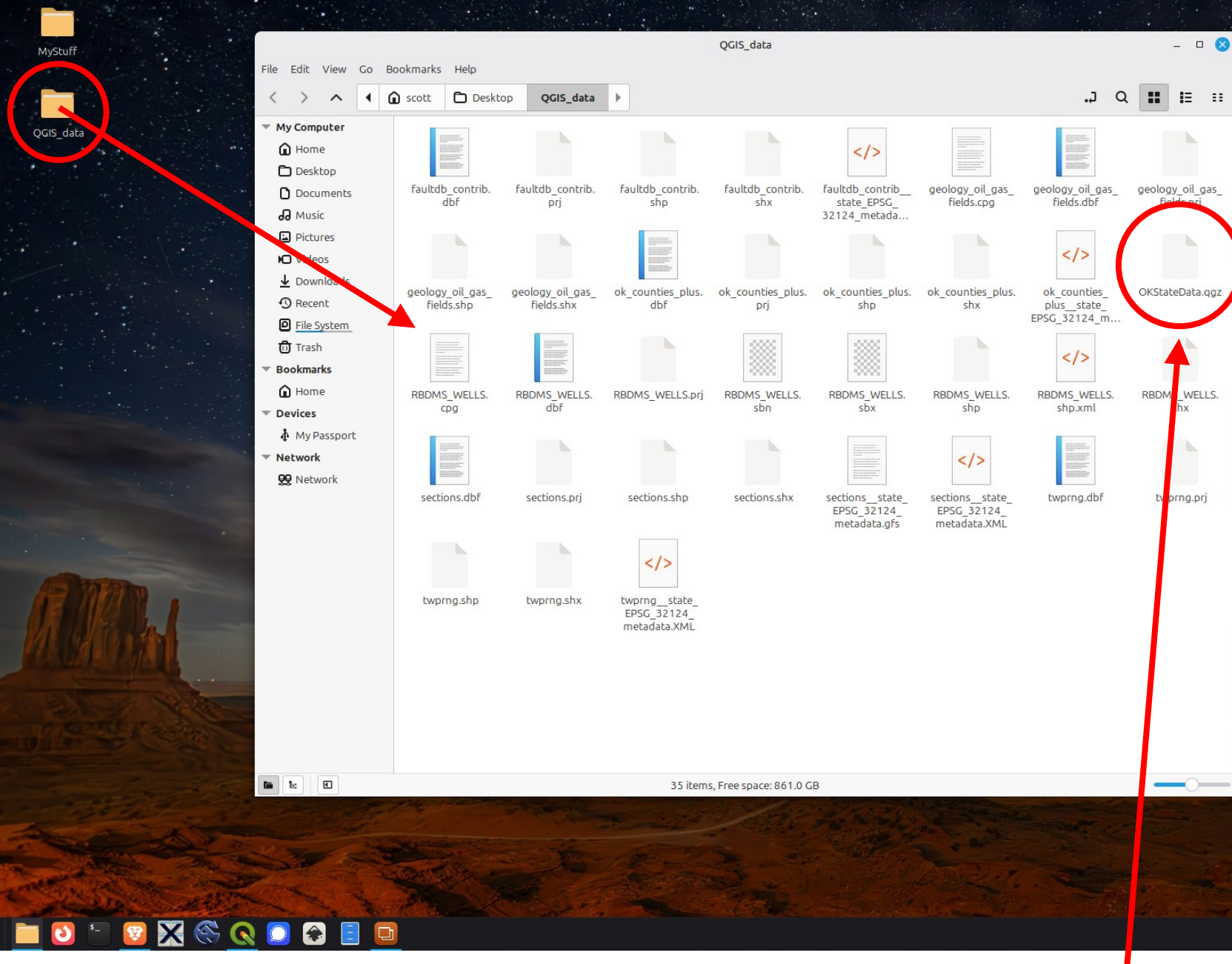
Linux

- What is Linux?
- Download Linux & make a bootable USB disk
- Install Linux
- Configure your Linux system
- Install useful Linux software
- **Configure QGIS**

Each of the library's MCGL Linux machines has a QGIS_data directory on the desktop

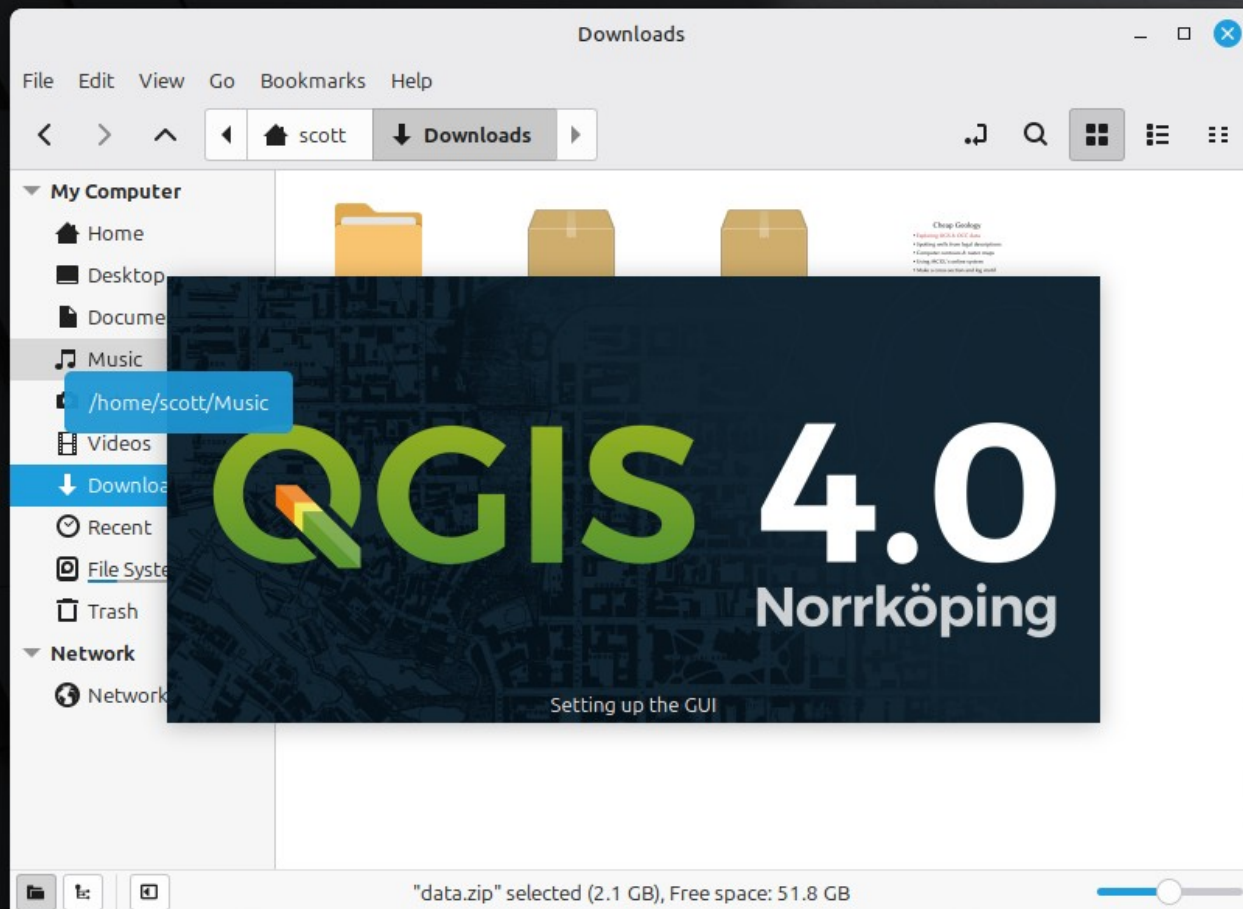


Double-click this folder to see all of the support files for the OKStateData.qgz project

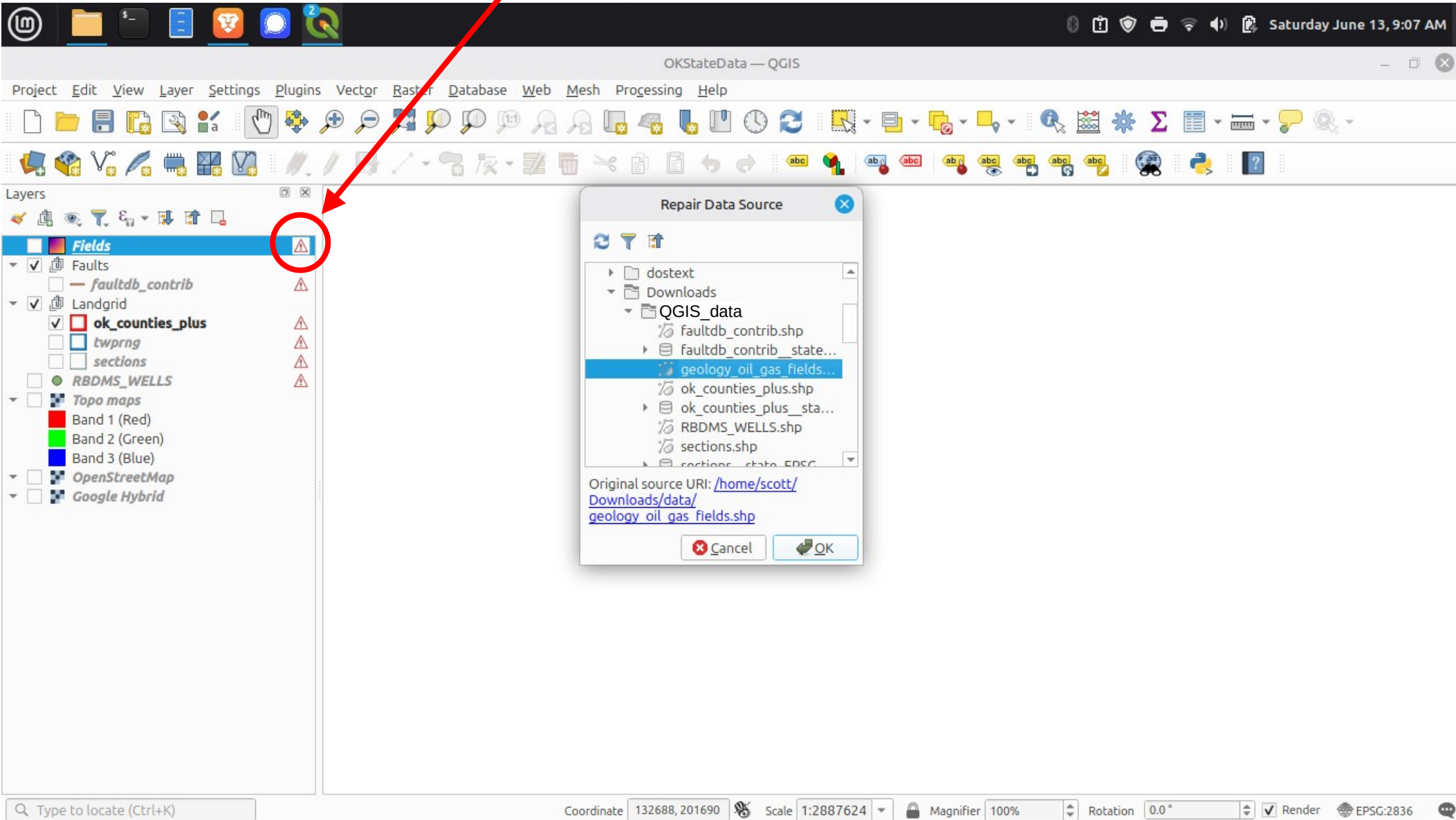


Copy this directory to your laptop and then use QGIS to open the QKStateData.qgz file

sschad@geologist.com

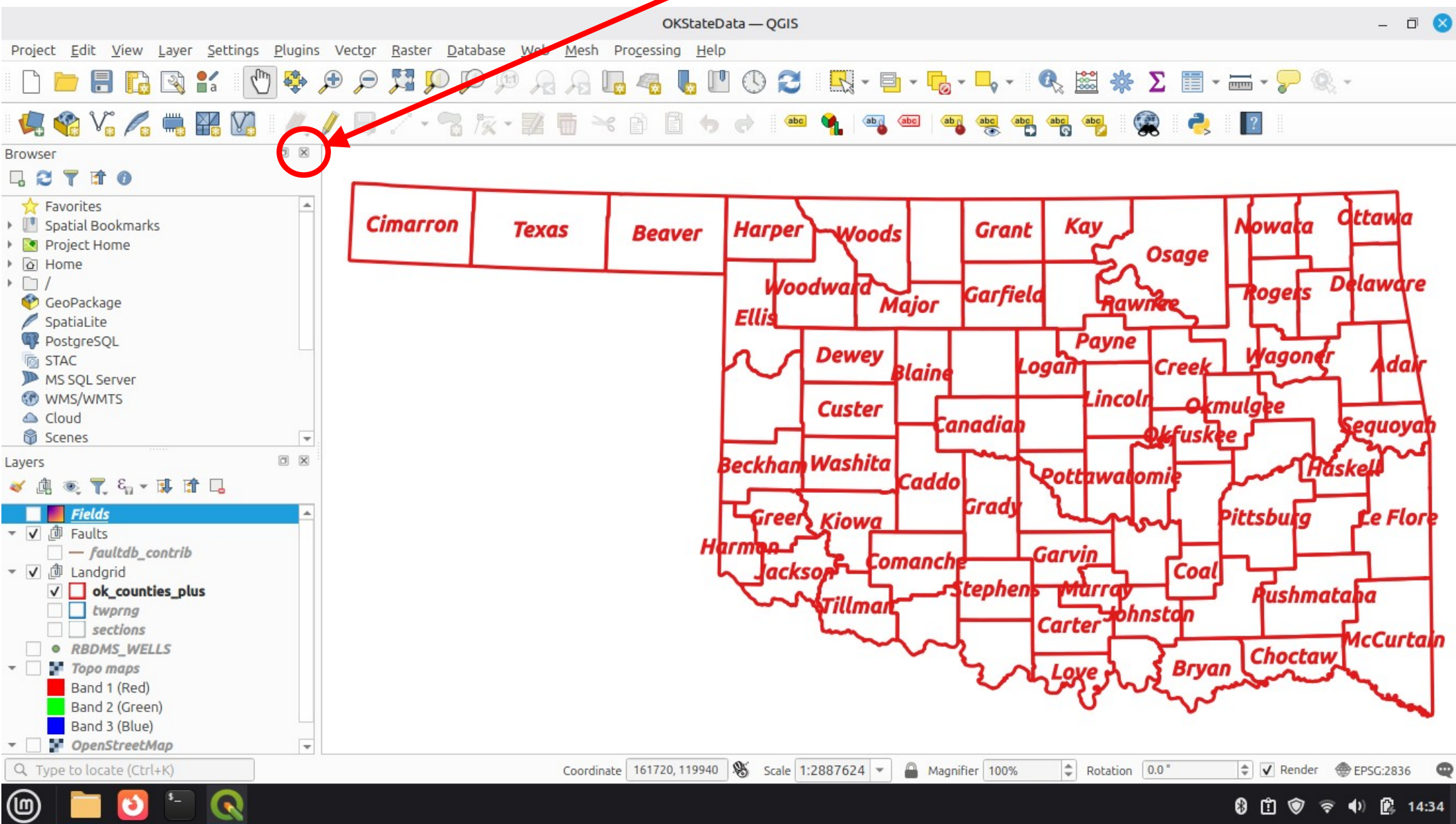


You will probably need to re-link or “repair” the data sources for the layers. The small red triangles next to the layer names indicate repairs that need to be made.

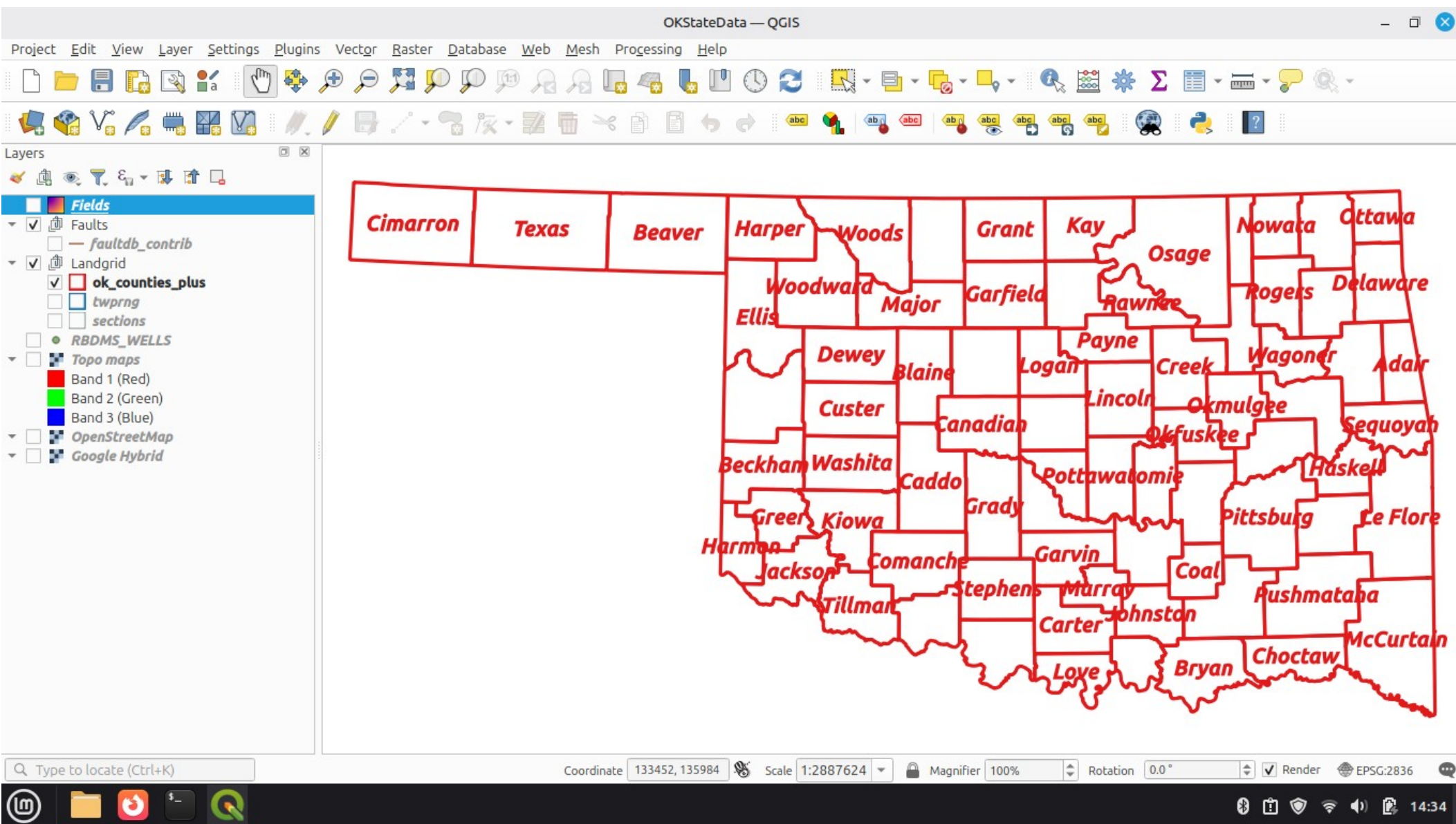


Click the red triangle, navigate in the pop-up window to the location where you have the layer file installed, and relink it. After you relink each layer to its data source, you’re good to go!

Here is the OKStateData file. Let's close the "Browser" window to get more room.



Linux & QGIS have no trouble running on a 10-yr-old laptop with 4 gB of RAM and a 30 gB HD



More Linux Mint documentation can be found on the web at:

<https://www.linuxmint.com/documentation.php>

This page includes the following manuals:

- Installation guide
- User guide
- Troubleshooting guide
- Translation guide
- Developer guide
- all in HTML, PDF, and EPUB versions