MUUGLines

The Manitoba UNIX User Group Newsletter

Volume 36 No. 9, May 2024 Editor: Tyhr Trubiak

Next Meeting: May 7th, 2024, 7:30pm

Last meeting before summer break

Feature Presentation:

DMARC/SPF/DKIM (with one-click unsubscribe and alignment)
Presented by: Trevor Cordes

Do you have anything at all to do with email daemons, managing email hosted by a third party provider, or manage DNS? Google just made your life a lot more complicated. (And heaven help you if you have anything to do with "mass" email sending.)

Come on down to MUUG this month and Trevor Cordes will talk about all the technologies you must now implement to stay borg-compliant and ensure your emails don't get dumped into the Spam box – or worse! We're talking DMARC, DKIM, SPF... And what's with this new "alignment" thing? If there's time we'll even go into one-click unsubscribe!

If you show up in person you will be treated to more beverage choices than we've offered in over a decade: coffee, tea, and pop, as well as cookies. And parking is free, copious, safe, and just a handful of feet from the door.

Please stay home if you are sick that day.

To attend via internet, check and refresh the following link after 7:00pm. There is no need to create an account in BBB, nor login. Just enter any name as your screen name and hit **join**.

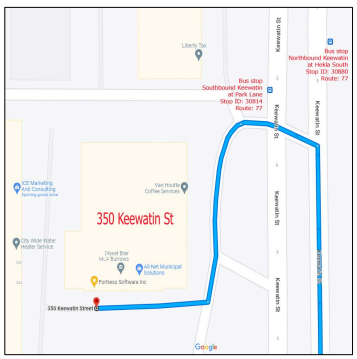
`https://muug.ca/meet`

The latest meeting details are always at:
`https://muug.ca/meetings/`

Where to Find the Meeting

We are continuing to meet on the first Tuesday of every month.

Fortress Software Inc.
350 Keewatin St – Unit #2



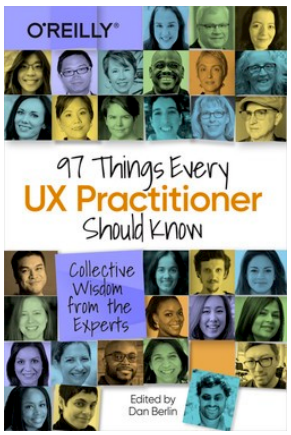
Doors will open at 7:00pm. Meeting starts at 7:30pm.

If driving, enter the lot using the most north-eastern entrance (far right in the top picture) and drive around to the south west corner of the building (see route in map detail). You can use any of the free, ample, and safe parking spots that say "reserved" or "MUUG" in front of units #1 through #4 before entering into unit #2. Look for the sign over the door!

Bus stops #30814 and #30880 (route 77) are only 150 meters away. The last bus leaves for Polo Park at

10:15 pm and for Garden City at 10:31 pm. Logan Ave. bus routes #19, #26, and #27 are a 600 meter (8 minute) walk to the south.

Door Prize Draw!



New and extra for this month's door prize is a new(ish) O'Reilly book "97 Things Every UX Practitioner Should Know" by Daniel Berlin (2021). In their popular "97 things" format you get insightful glimpses into some of the top UX minds, such as "Design for Content First" and "Put On Your InfoSec Hat to Improve Your Designs". If you want to win this physical prize you must be physically present, and it will likely go in the first, members-only draw, so join MUUG today! (You can win e-book prizes online.)

Fedora Hits 40!

Fedora 40 has been released, giving you the option of GNOME 46 or the shiny new KDE Plasma 6.0.3 as your desktop, quarterbacked by the Linux 6.8 kernel, powered with GCC 14, Mesa 24.0 graphic drivers and LLVM 18.

Other notable updates: Ruby 3.3, GoLang 1.22, PHP 8.3, PostgreSQL 16, Podman 5, OpenJDK 21, binutils 2.41, glibc 2.39 and gdb 14.1.

Fedora does not have long-term support releases, which is one of the many reasons it often has cutting edge components.

It is not a lightweight OS either.
GNOME Workstation uses 1.3GB of RAM and 3.5GB of disk upon startup, and KDE 6 uses 1.5GB RAM and 4.1GB of disk, so you will want it more for modern hardware, as well as a recent GPU if you want to take full advantage fo the latest drivers.

Fedora 40 is a notable milestone – this version is what Red Hat Linux Enterprise 10 and CentOS Stream 10 will be based off of.

https://www.phoronix.com/news/Fedora-40-Available

Ubuntu 24.04 LTS is available

Ubuntu 24.04 LTS (Noble Numbat), powered by Linux kernel 6.8, is now available. It comes with the latest GNOME 46 desktop environment, an all-new graphical firmware update tool called Firmware Updater, Netplan 1.0 for state-of-the-art network management, updated Ubuntu font, support for the deb822 format for software sources, increased vm.max_map_count for better gaming, and Mozilla Thunderbird as a Snap by default.

Ubuntu 24.04 LTS comes with an updated toolchain that includes GCC 14, GNU Binutils 2.42, Glibc 2.39, systemd 255.4, Java 21, Python 3.12, PHP 8.3, Ruby 3.2, LLVM 18, Rust 1.75, NET 8 and Go 1.22.

Desktop environments for the different Ubuntu flavors: KDE Plasma 5.27.11 LTS for Kubuntu 24.04 LTS and Ubuntu Studio 24.04 LTS, LXQt 1.4.0 for Lubuntu 24.04 LTS, Cinnamon 6.0 for Ubuntu Cinnamon 24.04 LTS, Budgie 10.9.1 for Ubuntu Budgie 24.04 LTS, and MATE 1.28 for Ubuntu MATE 24.04 LTS.

Ubuntu 24.04 LTS will have standard support for 5 years, until June 2029.

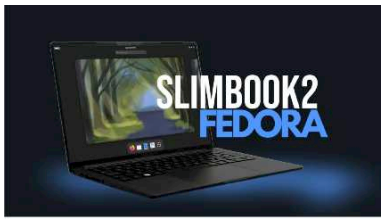
A free Ubuntu Pro subscription can increase that to 10 years, or 12 years if you purchase the Legacy Support add-on.

Ubuntu 24.04 LTS includes out-of-the-box Raspberry Pi 5 support, "Year 2038" support for the ARMhf architecture, ADSys Active Directory Certificates auto-enrollment, support for many new fingerprint devices, as well as optimized Power Profiles Manager to support newer hardware features, especially for AMD systems, and automatically increase the optimization levels for laptops when running on battery only.

https://9to5linux.com/ubuntu-24-04-lts-noble-numbat-is-now-available-for-download-heres-whats-new

Slimbook Fedora 2

A collaboration between Fedora and Spain-based computer manufacturer Slimbook, Slimbook Fedora 2 has been released.



This is an update to last year's models: Slimbook 14, Slimbook 16, which are also powered by a version of Fedora.
As their names may suggest, they come 2 different screen sizes:
14" - Intel Iris X, weighing 2.2 lbs
16" - NVIDIA GeForce RTX 4060, weighing 3 lbs

Worthy note: 3% of the revenue from each Fedora Slimbook 2 sale will be donated to the GNOME Foundation, which is a great initiative and approach to support open source.

Slimbook Fedora 2 is powered by Intel's 13th Gen i7 CPU, which includes 14 cores.

Is battery life important to a laptop?
The 14-inch model features a 99 Wh battery, while the 16-inch model has an 82 Wh battery, both promising "day long battery life".

The website lists 9 Connections:
1. USB-C Thunderbolt 4
2. USB-A 3.2 Gen1
3. HDMI 2.1
4. USB-C 3.2 Gen2
5. USB-A 3.2 Gen1
6. SD card reader
7. Audio input & output

They also list the following, but I'm not sure I'd personally advertise them as "connectors" with the above others...
8. Kensington Lock
9. AC Connector

https://fedora.slimbook.com/

You Can Touch Ubuntu Again!

Ubuntu Lomiri, a new Ubuntu flavour based on Ubuntu 24.04 LTS, is now available for public testing (pre-release version).

Ubuntu Lomiri feature the Lomiri (Unity 8) UI from the Ubuntu Touch mobile OS, which was abandoned by Canonical a few years ago.
The UBports Foundation took over the development of Ubuntu Touch and turned Unity 8 into Lomiri.

Lomiri features convergence, which means that it lets you turn your mobile device into a desktop when connected to a monitor, keyboard, and mouse.

You can now download and try the Ubuntu Lomiri 24.04 distribution featuring the Lomiri (Unity 8) desktop. It was ported to work on desktop computers, but Lomiri is still a mobile desktop.

Ubuntu Lomiri comes with pretty much the same as Ubuntu 24.04 LTS and the same core components. The only difference from Ubuntu 24.04 LTS is that it uses Lomiri rather than the GNOME desktop.

I have been told that users of Ubuntu Touch will find it very familiar.

While it may look complex on mobile devices, Lomiri is pretty simple on the desktop. It features an application dash on the left, which you can activate with the Super key, and a notifications center on the left with Ayatana indicators, from where you can configure various aspects of the desktop.

According to Ubuntu Unity maintainer Rudra Saraswat, Ubuntu Lomiri is quite stable and can be installed on real hardware. However, please try to keep in mind that this is a pre-release version, which means that you may encounter occasional crashes, depending on your hardware.

But for those of you that like to be bold and different...touch away!
Note, I heard from early testers that it currently does not work on the Lenovo IdeaPad 3 laptops, but works pretty well on the HP Stream laptops, except for brightness.

https://9to5linux.com/first-look-at-ubuntu-lomiri-ubuntu-touchs-mobile-desktop-arrives-on-pc

Thunderbird's Rust Helps Exchange

Thunderbird 116, expected to be released in July, will incorporate components developed in Rust (the programming language) will eliminate the need for third-party add-ons for compatibility with Microsoft Exchange.

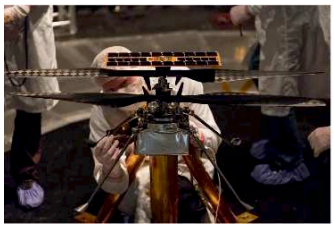
Rust has been praised for it's memory handling and

this move is expected to minimize memory-related errors, as well as better performance over JavaScript add-ons, which should result in a quicker and more responsive Thunderbird.

Other new expected features include synchronizing settings across systems via linking to a Mozilla Account, a transition to a new global message storage database, and a vertical layout of the message list known as Card View.

Additionally, the release will offer full dark mode support for messages and images, new Folder Pane features, and the creation of Account Hub, a unified point for configuring all accounts. The release will also integrate the built-in machine translation engine Firefox Translate.

NASA's Crash Landing on Mars



NASA's Ingenuity Mars Helicopter recently experienced a hard landing on its last flight, severely damaging its rotor blades.

Now unable to fly, unless something else moves it, its final resting spot will remain at "Valinor Hills".

Does this mean that Linux has staked its claim on Mars? The helicopter, powered by a Qualcomm Snapdragon 801 processor, has been running a Linux operating system. The software framework was developed at JPL, and since it is open-sourced, you can get the software framework that was flying on Mars!

Originally, the Ingenuity helicopter was designed to perform up to five experimental test flights over 30 days. However, over the period of almost three years, this little guy flew more than **14 times further** than expected!

Take that EV drivers!

The helicopter logged more than **two hours of flight time**.

Ok, EV drivers may have won that one.

Just like many Linux users breathe more life into older hardware by giving them another purpose, a software patch has been sent that will wake up Ingenuity daily to take pictures of the surface with its color camera and collect temperature data from sensors.

It will also test the performance of its solar panel, batteries and electronic equipment, which may be useful data to collect for upcoming designs for surviving this harsh alien world.

https://www.nasa.gov/missions/mars-2020-perseverance/ingenuity-helicopter/nasas-ingenuity-mars-helicopter-team-says-goodbye-for-now/

Clap If You Enjoy Watching Videos

After a 2 year wait, a new version of Clapper, a GTK4-based video player for Linux desktop has been released.

What's New in Clapper 0.6.0?

The code has been split and rewritten into a pair of new libraries (clapper, a playback library; clapperGTK, a GTK integration library), with a GUI on top.

The developer says this approach makes future development easier and enables others to leverage Clapper's libraries in their own apps.

There is a revamped user-interface. The playback now adopts "media queue" support, of which available queue mode behaviours are: No progression, Consecutive, Repeat item, Carousel, and Shuffle.

The queue list also uses the necessary APIs to show proper media titles for each queue items (when available), rather than the raw file name.

You can get detailed info on media files playing, such as codec, encoding, resolution, bitrate, whether hardware acceleration is being used, etc.

Speed and queue progression modes are restored on launch, maximum volume amplification level raised to 200% (because who doesn't like things that give more than 100% effort?), improved MPRIS support and missing GStreamer plugin notifcations, and video chapters shown in seek bar on hover.

For more detailed information, you can read the release notes at:

https://github.com/Rafostar/clapper/releases/tag/0.6.0

https://www.omgubuntu.co.uk/2024/04/clapper-0-6-video-player-released

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MUUG would like to thank Michael W. Lucas for donating one of his ebooks every month as a door prize. You can view and purchase his tech books here:

https://www.tiltedwindmillpress.com/product-category/tech/

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