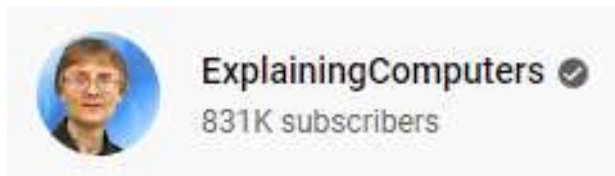




Alan German & Chris Taylor
Ottawa PC Users' Group

Share

Image File Formats



Explaining Image File Formats

Raster vs vector graphics

Colour spaces

Alpha channels

Bit depth

File formats include:

JPG, PNG, GIF, and RAW

SVG, EPS and PDF

<https://www.youtube.com/watch?v=WblPwVq9KnU>



Small form factor computer

- I am currently researching/searching for a new computer to replace my 12-year old desktop that now fails repeatedly
- I am looking for a desktop that is 100mm wide, about 10L in size
- I am looking at HP, Dell, Asus, Lenovo and Intel (NUC)
- Any suggestions for other brands or specific models I should look at?





Scanning app

- Can anyone suggest a free scanning program?
My HP app seems to have stopped working





OLED burn-in

- Are AMOLED screens the same as OLED?
- If not, then do OLED screens also burn in?





AMOLED vs. OLED

OLED = Organic Light-Emitting Diodes

AMOLED = **Active-Matrix** Organic Light-Emitting Diodes

OLED - Organic compounds are the electro-luminescent material in a thin-film display of light-emitting diodes
(Current flows, diode emits light)

The active matrix in AMOLED is an additional layer of thin-film transistors (TFT) that act as switches for individual pixels

OLED/AMOLED advantages – no backlighting, high contrast, thin displays, fast response

What Is OLED?



TIM BROOKES  @timbrookes

JUL 9, 2021, 6:40 AM EST | 6 MIN READ

The biggest concern surrounding OLED panels is one of permanent image retention, also known as “burn-in.”

<https://www.howtogeek.com/732089/what-is-oled/>



<https://www.youtube.com/watch?v=nOcLasaRCzY&t=12s>



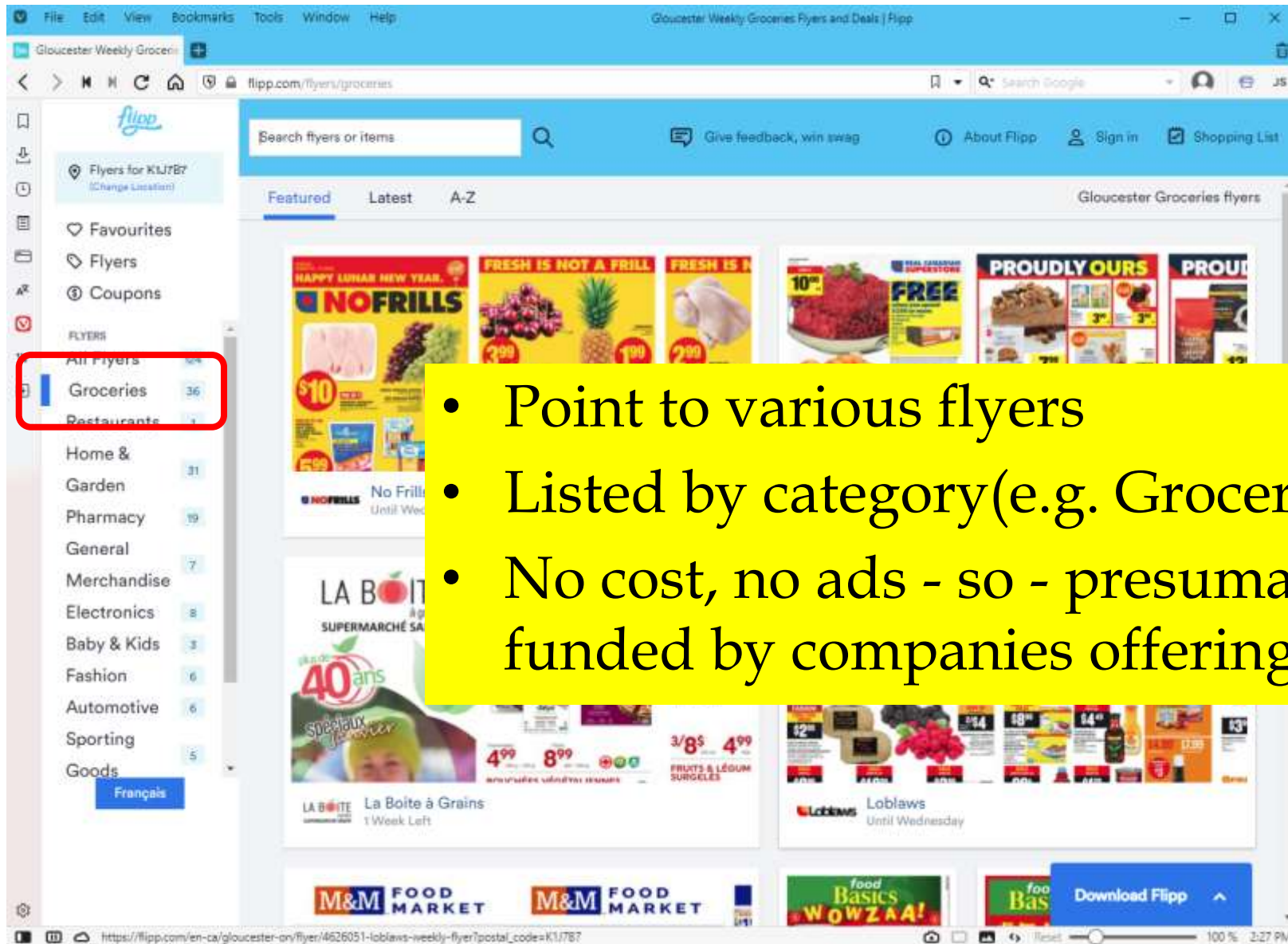
Flyers and Cashback Apps

- Are there any pitfalls to to avoid when using Rebee and Flipp flyer apps, and the Checkout51, Caddle, and Eclipsa apps
- How do the owners of these platforms make their money?



A

Flyer Apps - Flipp



- Point to various flyers
- Listed by category(e.g. Groceries)
- No cost, no ads - so - presumably funded by companies offering flyers

Share

SmartApps

- Useful apps for Android smartphones and tablets
- What are your favourites?



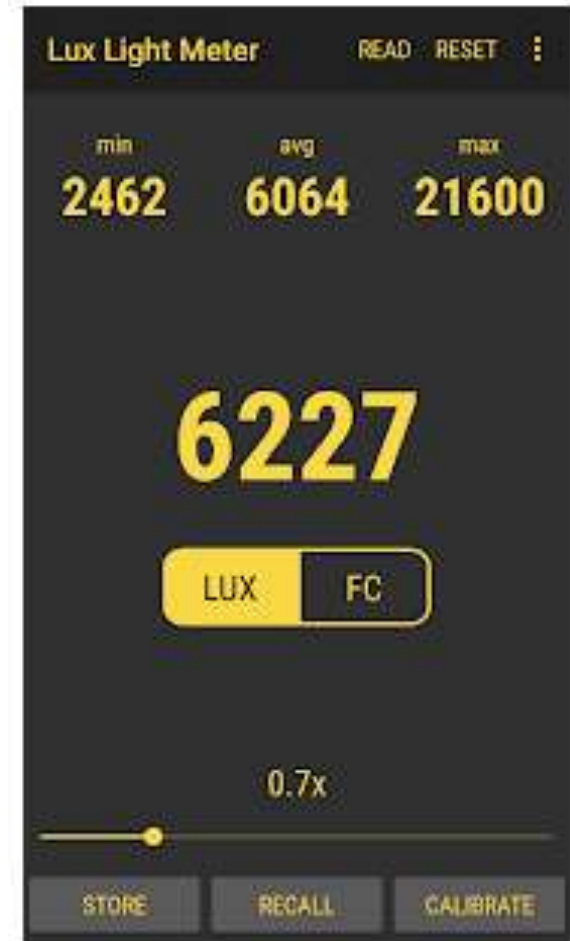
SuggestionBox@opcug.ca

Can also be a program for the PC



Lux Light Meter Pro

- Requires a light sensor
- Measure light levels
- Default is Lux
- Click FC for Foot Candles



<https://play.google.com/store/apps/details?id=com.doggoapps.luxlight>



To calculate lumens for a light source:

- For a spotlight/flashlight, illuminate a circle 1.12 m in diameter evenly with the phone in the middle (lumens = lux over 1 square metre)
- For a spherical source, hold the phone 28 cm away



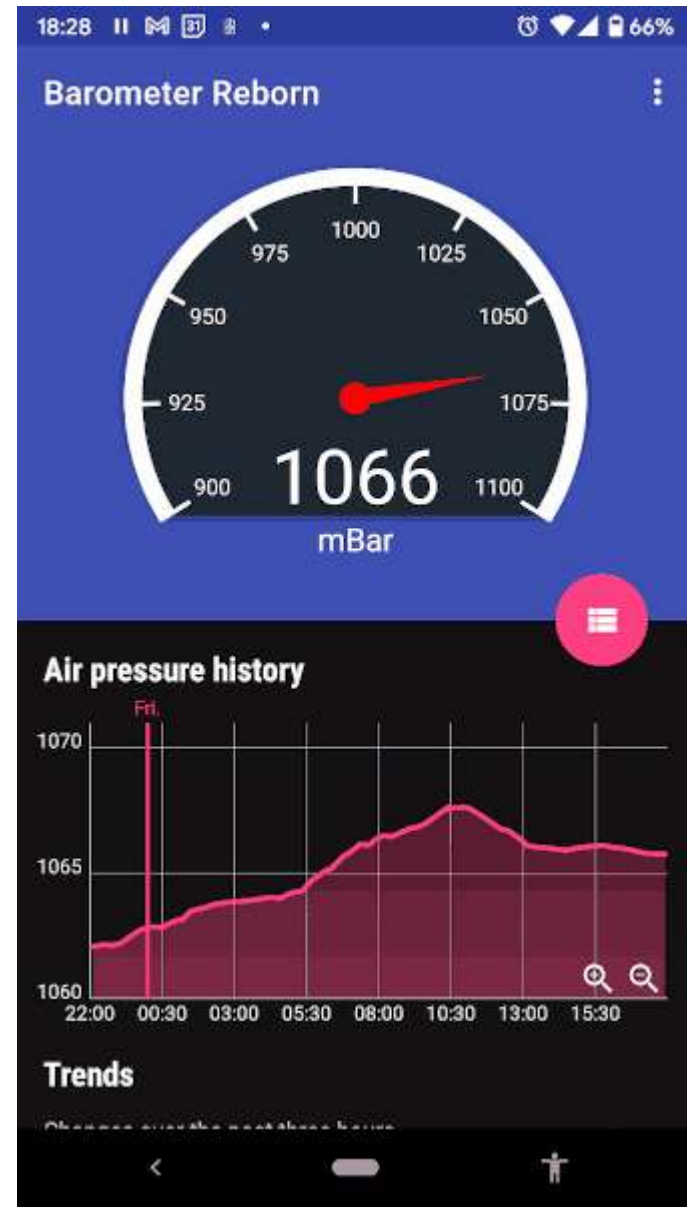


Barometer Reborn 2022

- Needs internal air pressure sensor
- Shows current air pressure and history graph
- Can trigger alarms on sudden changes which signal storms/winds
- Widget shows trend, value.
- Simple barometer/atmospheric pressure tracker
- Supports mean sea level air pressure (to be comparable with weather reports)
- Tracks history up to one week



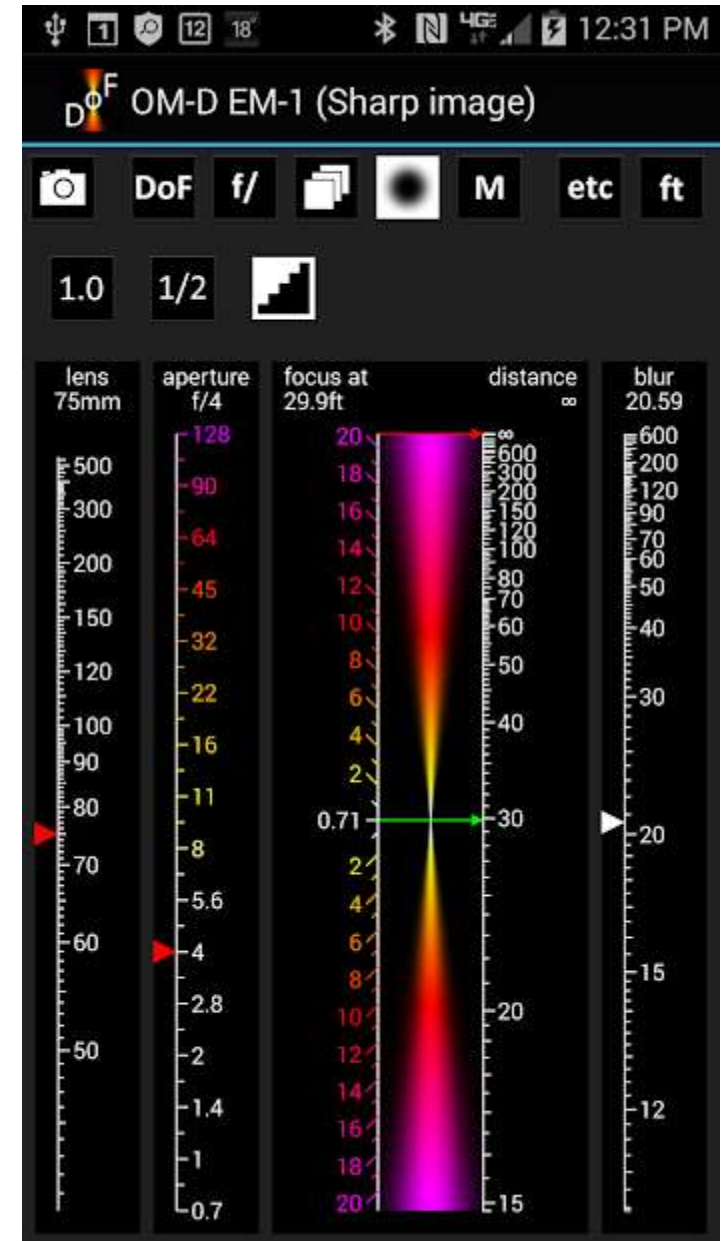
<https://play.google.com/store/apps/details?id=net.hubalek.android.apps.barometer>





DoF

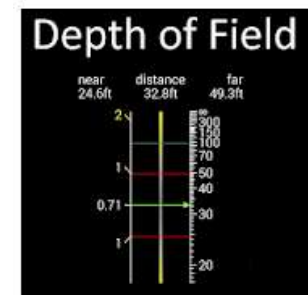
- Lens/camera Depth of Field
- Enter lens, aperture, focus point parameters, drag and drop
- Results displayed immediately
- Unique double-cone display illustrates blur as a function of subject distance



<https://play.google.com/store/apps/details?id=me.jonathansachs.dof>

- Unlike most other calculators, DoF determines depth of field taking both diffraction and focus blur into account
- Diffraction can be a major factor, especially for newer digital cameras with high resolution and smaller sensors
- Diffraction blur happens when the lens aperture width is small
- Reference manual can be downloaded at:
<https://www.dl-c.com/DoF>
- A compatible version of DoF is available for Windows computers at:

<https://www.dl-c.com/DoF>



Preparing to abandon ^{the windows} ~~ship~~

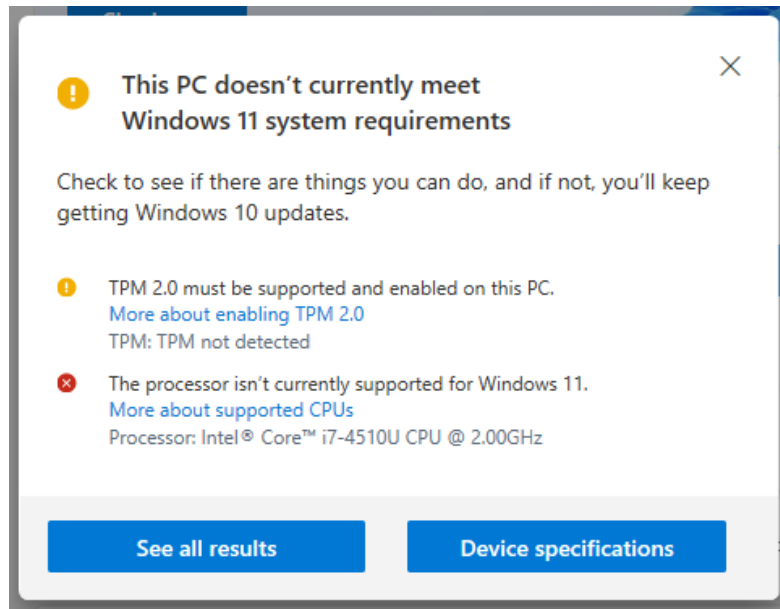
To-do list:

- ✓ (1) Install Linux on the last remaining computer
- ✓ (2) Identify the current uses of Windows 10
- ✓ (3) Identify Linux-based alternatives
- ✓ (4) Find workarounds if alternatives exist

What else do we need to know?

What are the issues?

- Computer ineligible for upgrade to Windows 11



- Inspiron 7547 has no TPM nor PTT capability
- i7-4510U CPU (Q2-2014) pre-dates the earliest CPU (Q3-2019) on the approved list

- Windows 10 will reach end of life on October 14, 2025
- No further security updates

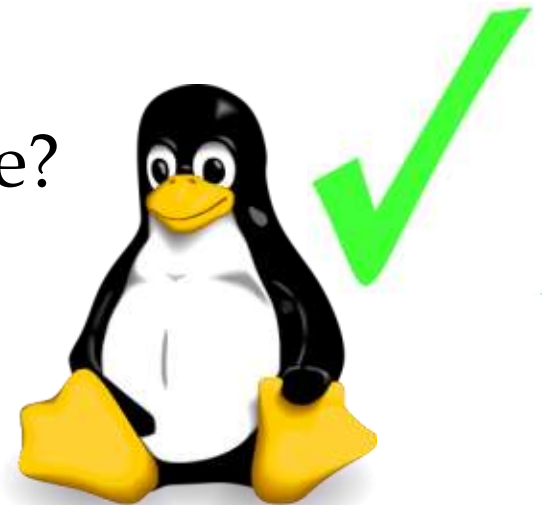
What are the options?

- Can't simply purchase Windows 11 as it doesn't support the CPU
- Buy a new computer (\$\$\$)
- Continue to use Windows 10 – not secure!
- Switch to Linux?
- Are all applications or alternatives available on the Linux platform?
- Can any Windows-only applications be run securely in a VM or dual-boot mode?
- Will Linux run on this old computer?



What are the options?

- Can't simply purchase Windows 11 as it doesn't support the CPU
- Buy a new computer (\$\$\$)
- Continue to use Windows 10 – not secure!
- Switch to Linux?
- Are all applications or alternatives available on the Linux platform?
- Can any Windows-only applications be run securely in a VM or dual-boot mode?
- Will Linux run on this old computer?
- **Linux will run on just about any computer!**



How do I install Linux?



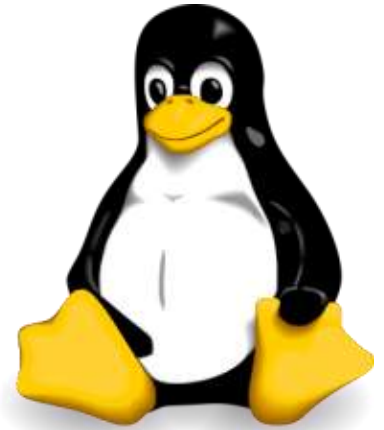
How do I install Linux?

- Don't!

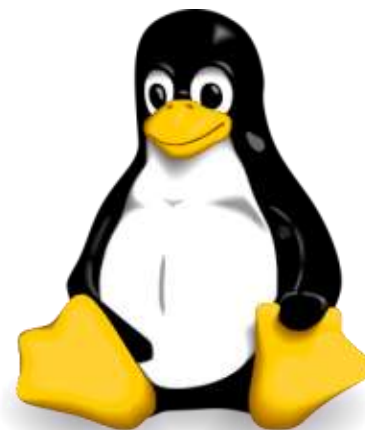


How do I install Linux?

- Don't!
- Use a Live-USB to try Linux without affecting your current computer in any way



How do I install Linux?



- Don't!
- Use a Live-USB to try Linux without affecting your current computer in any way
- Download a Linux distro (ISO file)
- Burn the ISO file to a USB drive (CD or DVD)
- Boot Linux from the USB drive (BIOS/Boot menu)
- Linux runs directly from the USB/RAM with all the included applications (e.g. LibreOffice)
- Connect to your Wi-Fi and use the available browser (e.g. Firefox) to surf the web
- If everything works as advertised, consider installing Linux in dual-boot mode

Linux Mint



Current release:

Version 20.3 (Una)

Desktop:

Cinnamon Edition

File size:

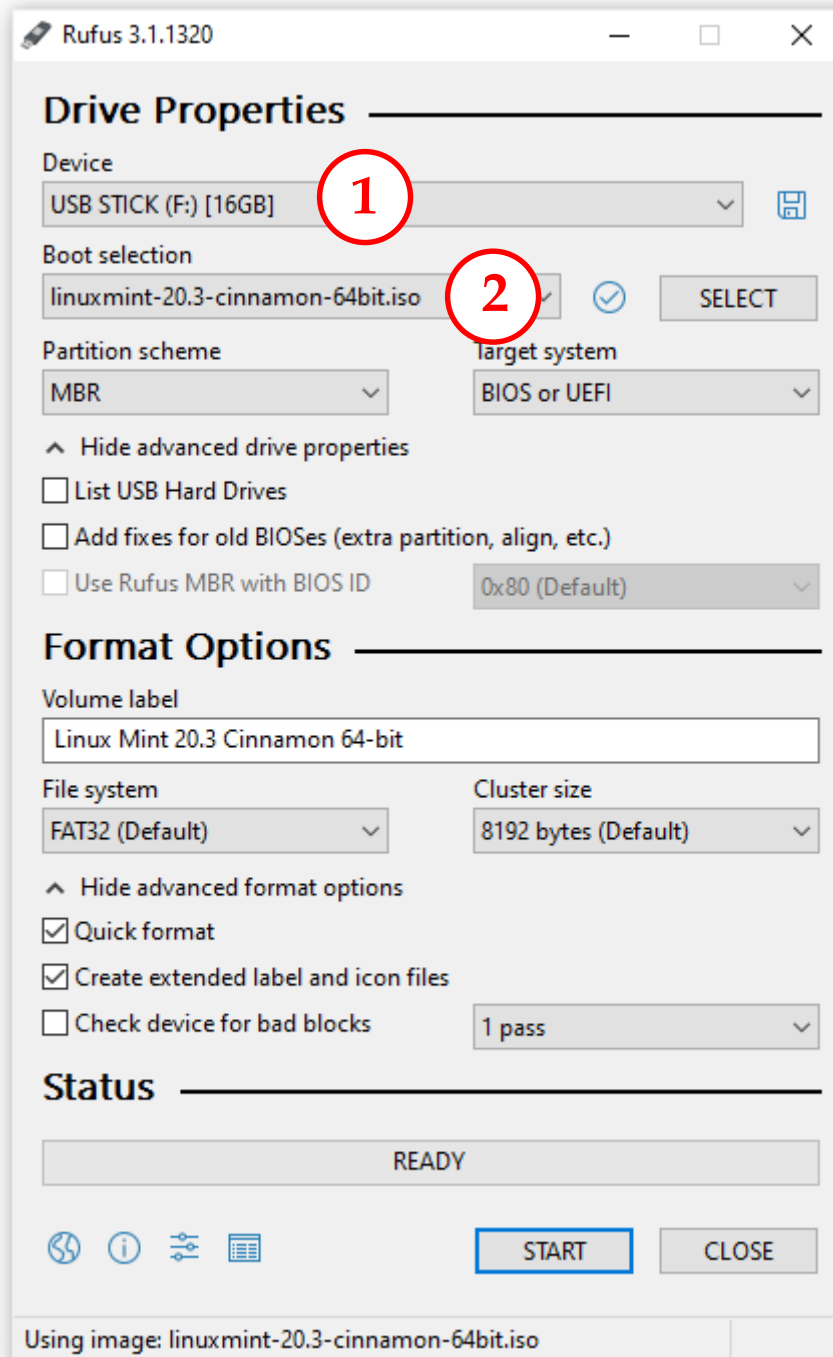
2.1 GB

Web site:

<https://linuxmint.com>

Canadian mirrors:

 Canada	Manitoba Unix User Group
 Canada	University of Waterloo Computer Science Club



Rufus

(<https://rufus.ie/en/>)

1. Target USB drive for bootable Linux system
2. Source drive with downloaded ISO file

All other settings left at their default values

Press START!

Boot using the USB drive

- Boot order (HDD, CD, USB...) settings may be in *BIOS setup utility* – *Boot* accessed by F2 (or similar)
- There may be a boot menu (F12 or similar) that allows direct selection of the USB drive
- Once the USB boots, be patient – and be aware that the boot process is different from that of Windows
- Linux displays many commands that scroll up the screen – but these are not usually of any interest
- Simply, wait for Linux to load the desktop...



Computer



Home



SDCARD



Install Linux Mint

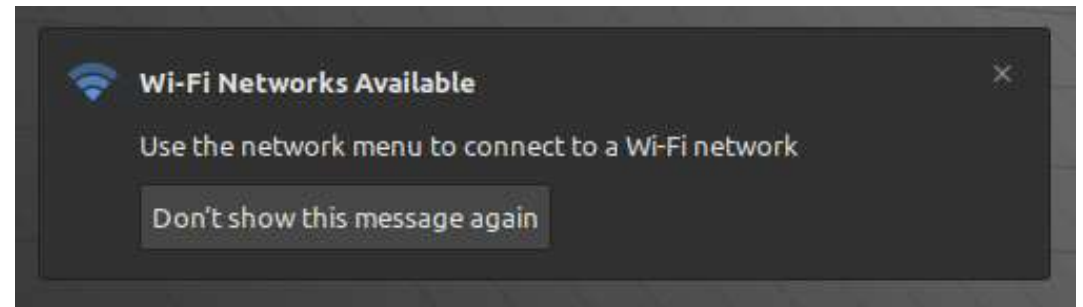
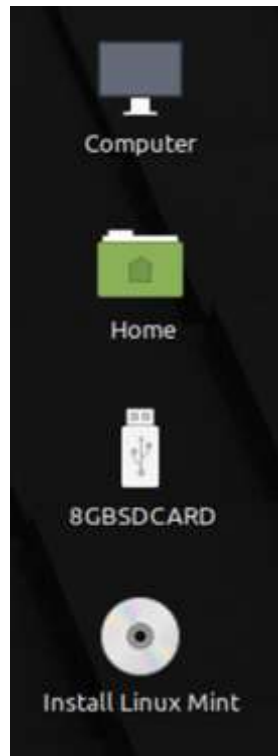
Wi-Fi Networks Available

Use the network menu to connect to a Wi-Fi network

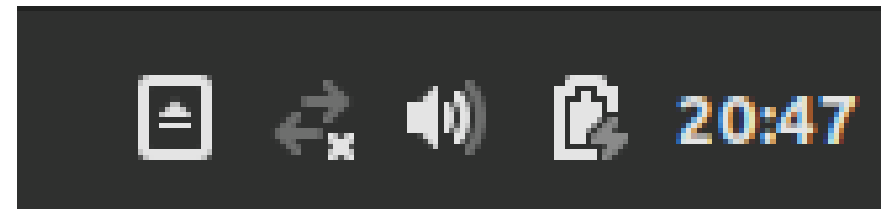
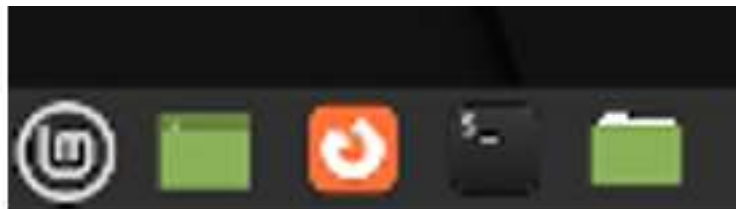
[Don't show this message again](#)



Desktop Tour...



Transient message





Computer



Home



8GBSDCARD



Install Linux Mint

Ignore for now

Wireless



Duckpond

100%



Duckpond-5G

79%



Dinosaursrus

35%



Network Settings

Network Connections



21:38

Network

Wi-Fi

Wi-Fi P2P

Network proxy



Wi-Fi
Connected



Duckpond-5G



Duckpond ✓



NETGEAR31

Dinosaurius

Details

Security

Identity

IPv4

IPv6

Reset

Signal Strength Good

Link speed 72 Mb/s

Security WPA, WPA2

Duckpond

Duckpond

Details

Security

Identity

IPv4

IPv6

Reset

Security WPA & WPA2 Personal

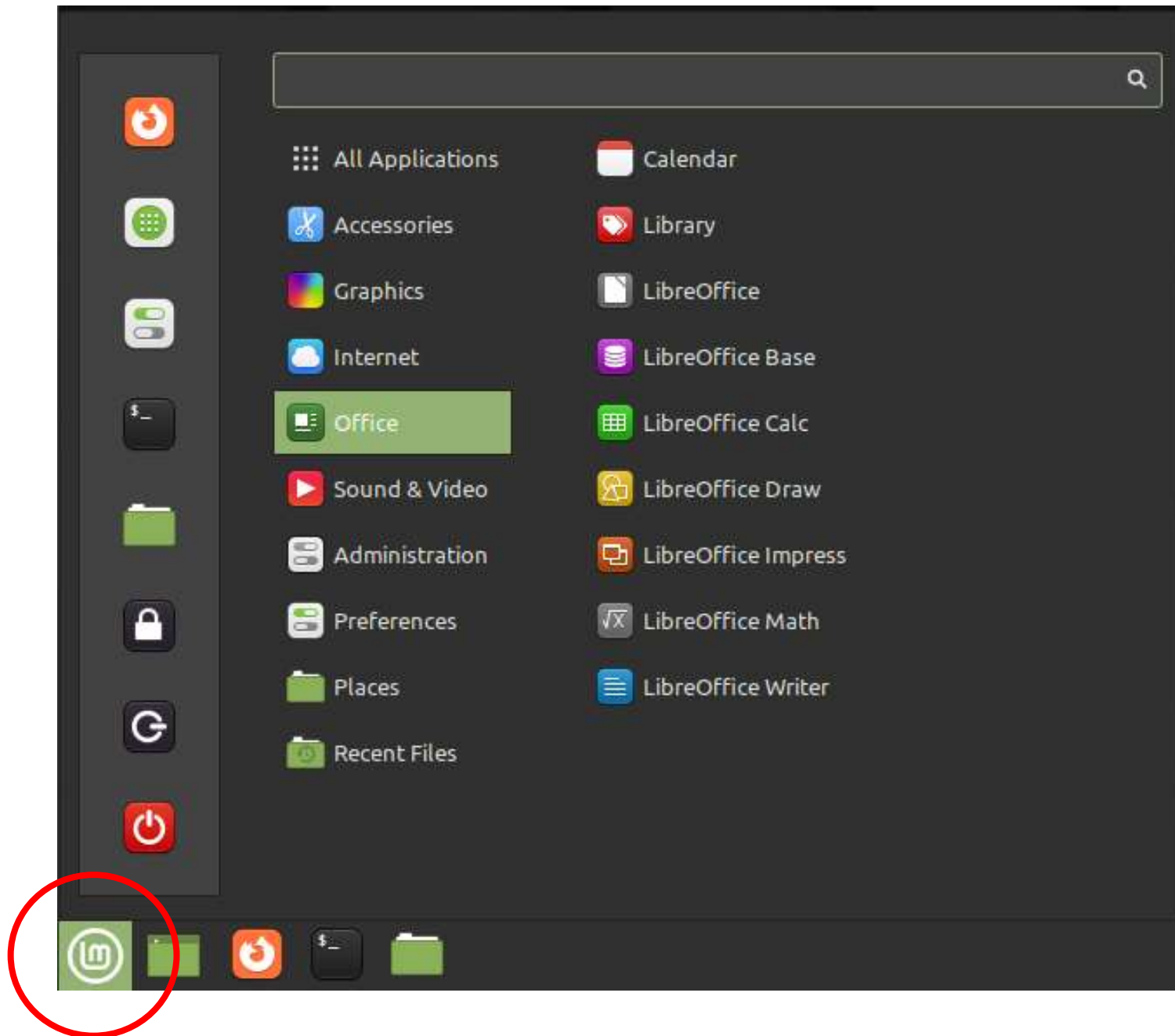
Password



☐ Show password

Cancel

Apply



Privacy Online



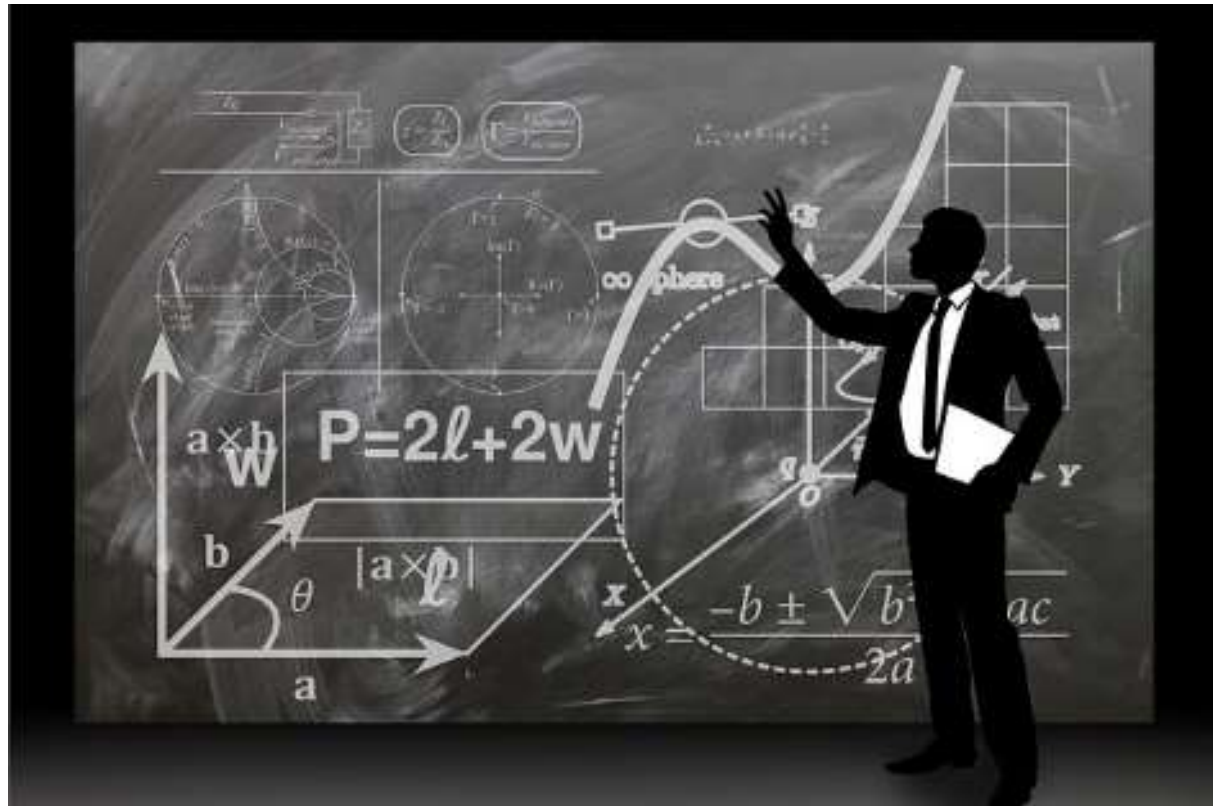
**Part 3 – Are you
being tracked?**



**Any other:
Questions
Comments
Shares?**

**SPECIAL
OFFER!**

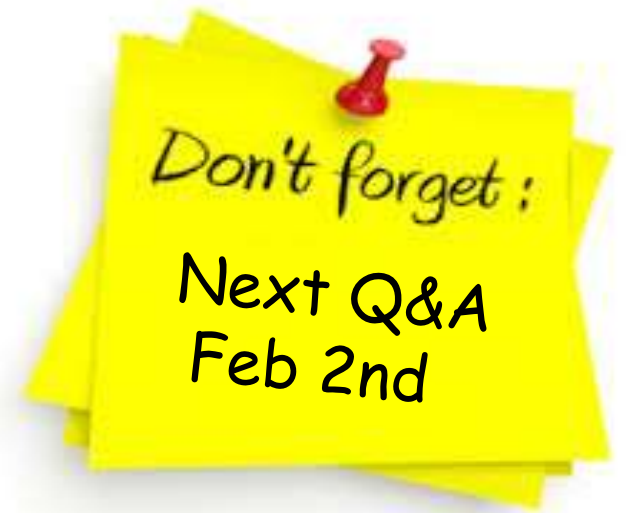
2 for 1



Our membership offer isn't that hard

Buy a one-year membership (\$20) and
get an additional year absolutely free!

(But, only until March 31st)



**Send your questions,
answers, and topics
you wish to share to:**

SuggestionBox@opcug.ca

