



Alan German & Chris Taylor
Ottawa PC Users' Group

May 1, 2024

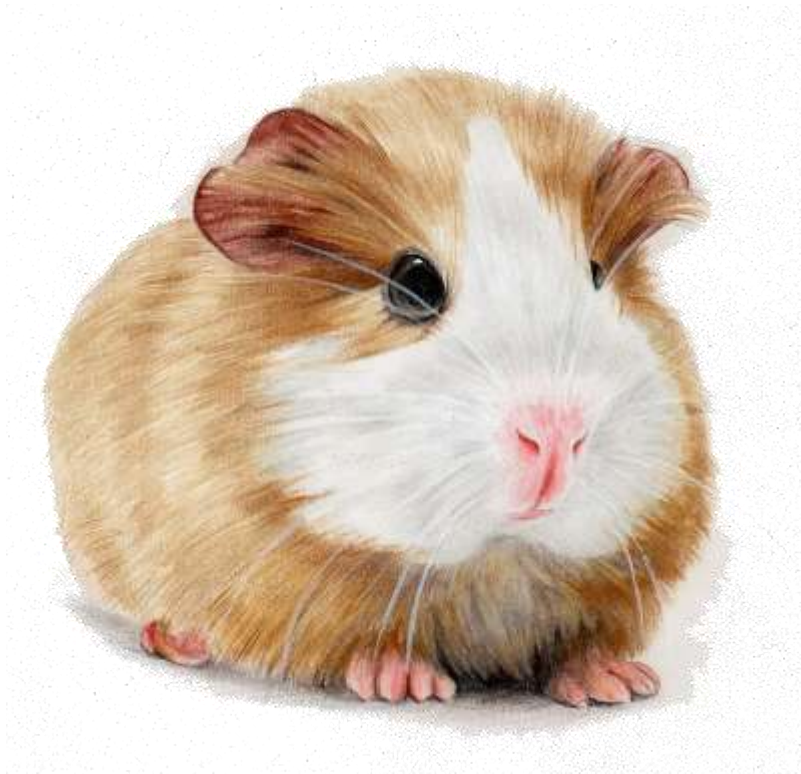
Follow Up



Q Will KB5034441 ever be fixed?

A My guess is... No!

*...unless we manually resize the
recovery partition or run the script*



Who do we know who will be a guinea pig?

19-Apr-24

Linux – 2 updates (28 MB)

My Book04/z_images/Foxclone/20240419.backup

20-Apr-24

Windows – Downloaded the sample script to increase the size of the WinRE recovery partition as documented at: <https://support.microsoft.com/en-gb/topic/kb5034441-windows-recovery-environment-update-for-windows-10-version-21h2-and-22h2-january-9-2024-62c04204-aaa5-4fee-a02a-2fdea17075a8>

Full system backups are a wonderful thing!

- Deleted both “WinRE” partitions
- Windows booted normally
- **Linux did not !!!**
- Simplest fix was to recover the Linux OS partition
- Back operating normally in 3 min 55 s



Follow Up Reading PDF files

- Received an email about a scam involving PDF files
 - *scammer disguises malware to look like a PDF file and attaches it to emails pretending to be from PayPal.*
- Suspect it could be one of:
 - specially crafted PDF file designed to exploit a vulnerability in Adobe Reader
 - executable made to look like a PDF file by giving it a double file extension
 - default for Windows: *hide file extensions for registered file types*
 - **Invoice.pdf.exe** appears as **Invoice.pdf**

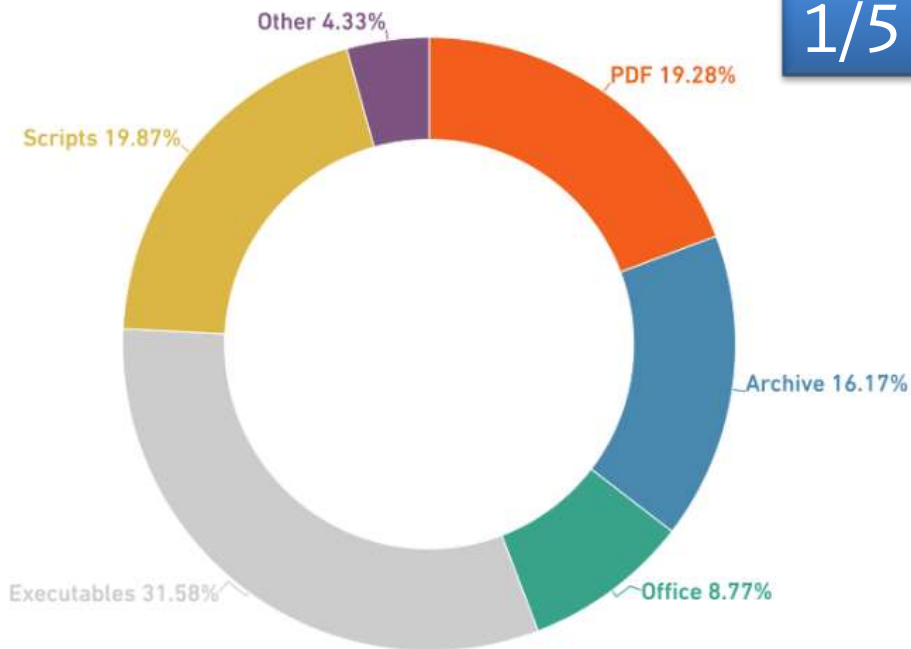
Follow Up Specially crafted PDF file

- PDF file itself not harmful
 - crafted to exploit a vulnerability in **Adobe Reader**
- If you open the PDF in Adobe Reader that has *not been patched* for the vulnerability
 - exploit triggered
 - attacker can take over your computer
 - or whatever the exploit allows
- Only a problem if
 - you are opening a PDF file **and**
 - there is a vulnerability in Adobe Reader **and**
 - Adobe has not yet patched Reader to fix the vulnerability **or**
 - you have not updated to a patched version of Reader
- Not likely a real problem, right?

Follow Up PDF reader

2022 New Malicious File Type Detections | Capture ATP

1/5 of all new malicious files are PDFs



Vulnerabilities in *Adobe Reader* primary vector for attack

Program	Market share	Vulns
1 Adobe Reader	85%	43
2 Foxit Reader	8%	2
3 PDF-XChange Viewer	4%	0
4 SumatraPDF	4%	0
5 Nitro PDF Reader	2%	0

2023 SonicWall Cyber Threat Report

Secunia Vulnerability Review

The Register
Biting the hand that feeds IT

WTF PDF: If at first you don't succeed, you may be Adobe re-patching its Acrobat, Reader patches

By Shaun Nichols in San Francisco 21 Feb 2019

naked security by SOPHOS

Update now: Adobe fixes 85 serious flaws in Acrobat and Reader

03 OCT 2018

Follow Up Free PDF readers



- Foxit Reader
 - <https://www.foxit.com/pdf-reader/>
- PDF XChange Editor
 - <https://www.tracker-software.com/product/pdf-xchange-editor>
- SumatraPDF
 - <https://www.sumatrapdfreader.org/download-free-pdf-viewer>
- Nitro PDF Reader
 - <https://gonitro.com/pdf-reader>
- Slim PDF Reader
 - <https://www.investintech.com/resources/freetools/slimpdfreader/>

Follow Up EXE file made to look like PDF

- Following slide is from presentation *Protecting your PC*
- Details how an attacker can make an executable look like a Microsoft Word document
- Works just as easily with PDF files

Follow Up

What type of file is **Budget.doc**?

Default in Windows:

- *hide file extensions for known file types*

Change:

- *View > Show > File name extensions*

Budget.doc.exe is a program!

Follow Up Recap of scam warning

- Received an email about a scam involving PDF files
 - *scammer disguises malware to look like a PDF file and attaches it to emails pretending to be from PayPal.*
- Specially crafted PDF file designed to exploit a vulnerability in Adobe Reader?
 - **exploit avoided by not having Adobe Reader installed**
- Executable made to look like a PDF file by giving it a double file extension?
 - default for Windows: *hide file extensions for registered file types*
 - **Invoice.pdf.exe** appears as **Invoice.pdf**
 - **exploit avoided by showing file extensions**

Share

Printing images

Before you print, **make sure:**

- The image is right exposure (check brightness of PC screen, histogram of image and pure white areas).
<https://opcug.ca/Photography/Histograms.pdf>
- The primary subject is sharp (use photo editing sharpening tool or AI).
- The resolution is adequate (upcoming slide).
- The image has been cropped to the desired aspect ratio (e.g. 4x6, 8x10, etc.)



Share

Printing guidelines

- All digital cameras and phones have enough resolution (out of camera) for a 4x6 or 5x7 print.
- Max of many printers is 300 dpi (or 300 pixels). For an 8x10, you need a length of at least $300 \times 10 = 3000$ pixels for optimum quality.
- For example, 24 MP camera makes a 4000 x 6000 pixel image. Lots of leeway to crop but check dimensions before printing.

Share

With
no
cropping!

MEGAPIXELS	8	12	16	24	36	40
PRINT SIZE						
5 x 7"	YES	YES	YES	YES	YES	YES
8 x 10"	YES	YES	YES	YES	YES	YES
11 x 14"	OK	YES	YES	YES	YES	YES
16 x 20"	OK	OK	OK	OK	YES	YES
16 x 24"	NO	OK	OK	OK	YES	YES
20 x 30"	NO	OK	OK	OK	OK	OK
24 x 36"	NO	NO	OK	OK	OK	OK
30 x 40"	NO	NO	OK	OK	OK	OK
40 x 60"	NO	NO	NO	NO	OK	OK
Billboard	NO	NO	OK	OK	OK	OK

Source: Shotkit.com

[Share](#)

Resolution guide

Camera resolution	Sensor resolution (pixels)	Max print size at 300 dpi
8 megapixels	3456 x 2304	8 x 10
12 megapixels	4240 x 2832	8 x 14
16 megapixels	4608 x 3456	11 x 14
24 megapixels	4240 x 2832	16 x 20
42 megapixels	3456 x 2304	24 x 18

Share

Printing at home

- Consider what is the maximum size you want to print.
- Inkjet superior to colour laser. Research options for minimizing replacement costs. Cartridges can get gummed up quickly and waste lots of ink to clear. Print one small image each week that uses all the colours.
- You may wish to calibrate your computer screen to your printer. Or print a small 4x6 before an enlargement.
<https://www.dpreview.com/articles/6848926575/intro-to-color-calibration-how-monitor-calibration-actually-works>
- Best to buy photo paper designed for the printer brand or high quality 3rd party. Check surface for matte, glossy, etc.



that was easy.sm



Share

Print companies

E
x
a
m
p
l
e
s

Test a printing company with single prints of each size.

- Shutterfly (can register as Costco member) but delivery fees (approx. \$15 USD).
Shutterfly free shipping sales do not apply to Canada.
 - $4 \times 6 = \$0.20 \text{ USD}$ $11 \times 14 = \$11.00 \text{ USD}$
 - $8 \times 10 = \$4.00 \text{ USD}$ $16 \times 20 = \$20.00 \text{ USD}$
- Photobook Canada in CDN \$ but significant shipping costs (\$12 for a few 8x10s).

Share

Print companies

Examples

- Staples has good prices if you submit on line and wait 5 days. Free pick up at a local outlet.
 - $4 \times 6 = \$0.16$ $11 \times 14 = \$7.49$
 - $8 \times 10 = \$2.00$ $16 \times 20 = \$18.79$
- Walmart – quick turn around but poor quality 8×10 s and 4×6 s (\$0.19) actually $4 \times 5 \frac{7}{8}$.



Share

Printing choices

- Surface: gloss, matte, lustre, etc.
- Textures: linen, pebble, canvas, etc.
- Mounted on a surface such as acrylic, metal, wood, textile (e.g. pillow), ceramic (e.g. mug).



Share

Edge importing Chrome data

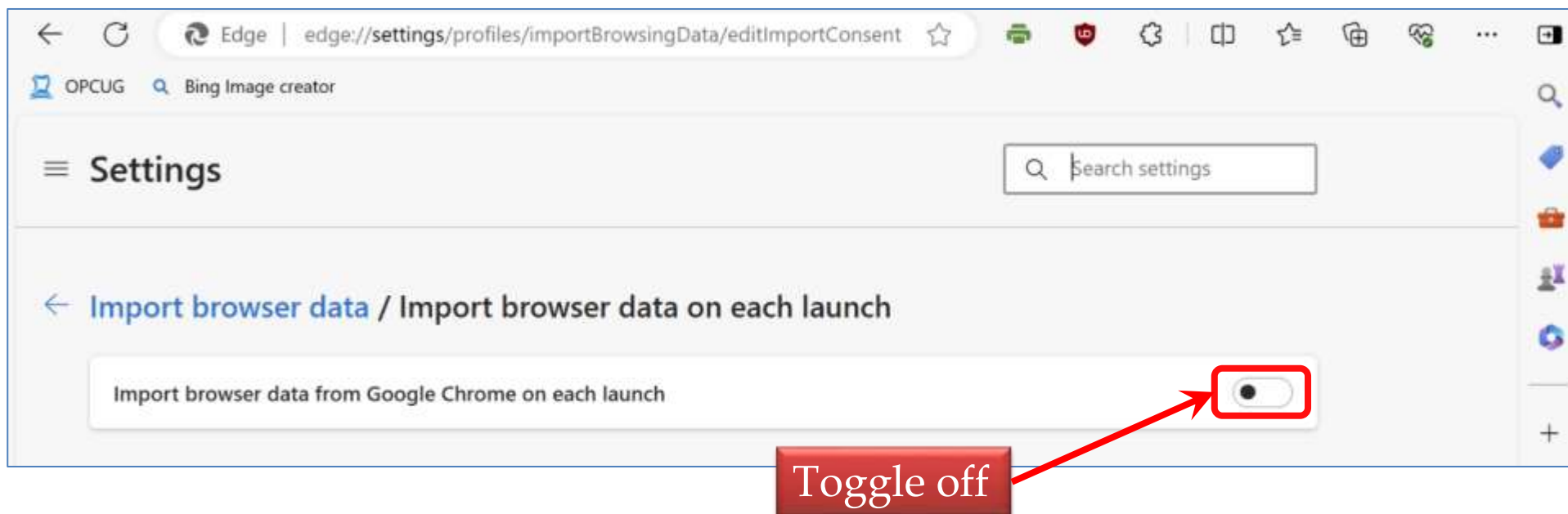


- During setup of Edge
 - which can occur every time there is an Edge update
- Given the “opportunity” to import data from Chrome
- This may be convenient when first starting using Edge
- But did you know...
- Edge is importing your Chrome data ...
EVERY time you open Edge

Share

Stop doing that, Edge!

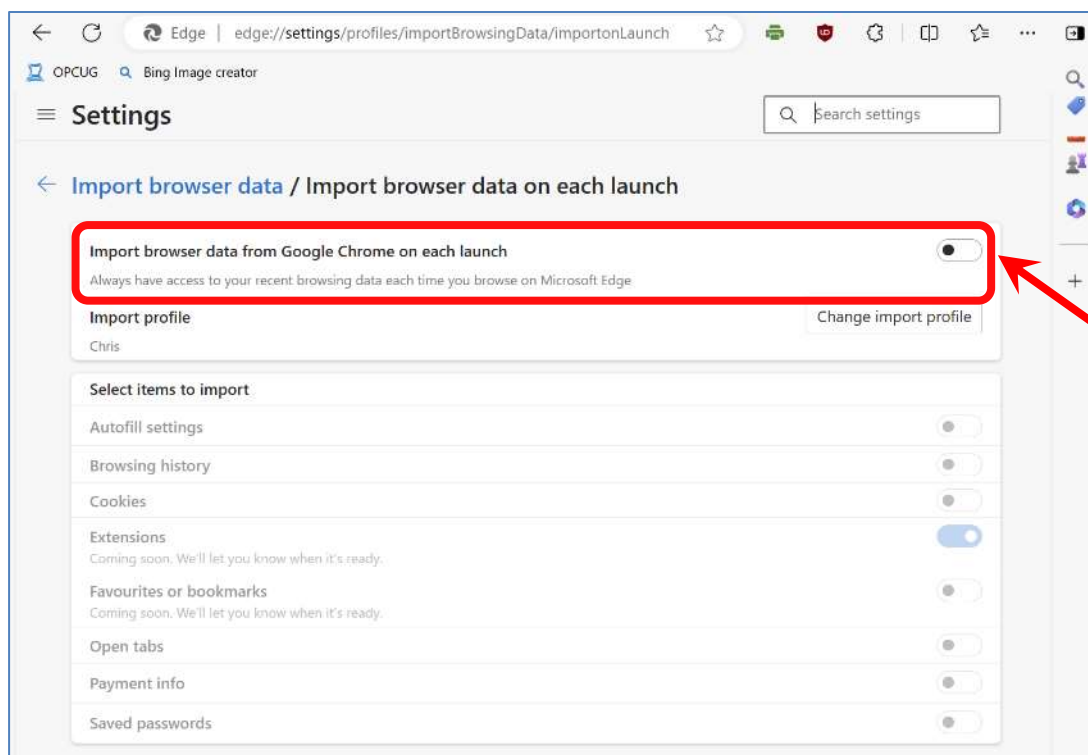
- If you want to either:
 - check if Edge is doing that, or
 - stop Edge from doing that
- In the Edge address bar, enter
 - **edge://settings/profiles/importBrowsingData/editImportConsent**



Share

Maybe another step required

- I also came across another change
 - don't know if this is strictly required
 - doesn't look like it would hurt
 - **edge://settings/profiles/importBrowsingData/importonLaunch**



Toggle off



Is ShuttleCloud Migration Safe?

- A friend had a 295.ca account that was being completely swamped by spam
- Tried everything to eliminate spam including getting 295 to strengthen the filters
- Going to close the account so imported the 295's messages to a Gmail account (not his main Gmail)
- Gmail put all the spam in the spam folder so it was easy to delete these and just keep the useful messages
- Needed to import the ex-295 messages to the main Gmail account
- Using exactly the same import feature in the Gmail setting goes to *ShuttleCloud Migration* but warns you it might not be safe!

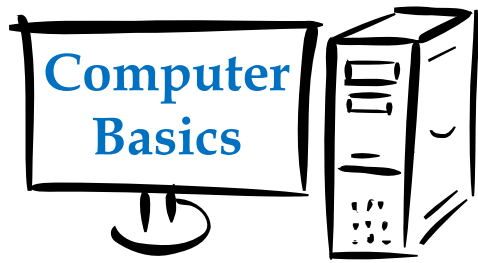


Never used it, but...

- **ShuttleCloud is built into Gmail** for Gmail-to-Gmail message transfer messages

Gmail ShuttleCloud Migration
Has access to Gmail, Google Services
Remove access

- **The app is not developed by Google** and so the warning is generic for a third-party app
- *Has anyone had experience (good or bad) with ShuttleCloud?*
- *Is there another/better way to transfer messages?*



Sharing files – part 2

- Good article from Window Intelligence
- Four options listed

- wireless *Nearby Sharing*
- share files in the cloud

April 17th

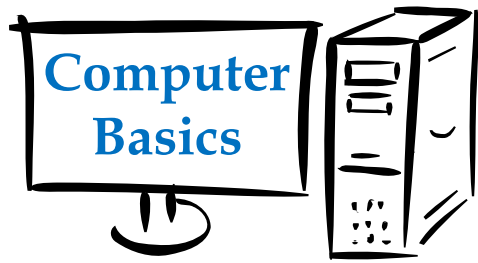
- https://opcug.ca/qa_recordings/20240417_PowerPoint.pdf

- network attached storage
- LocalSend (*I added this one*)

This week

- Traditional Windows network file sharing

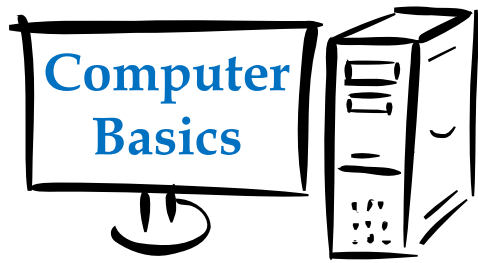
May 15



Network attached storage

- Dedicated devices for storage plugged into network
- Accessible to all computers on network
 - map a drive letter to network share on NAS
 - potentially access from Internet
 - *don't do this unless you really know what you are doing!*
- Security through redundancy (RAID)
 - one or more drives can fail with no loss of data
- High performance
 - many have 2.5 Gigabit Ethernet
- High capacity
 - usually at least two drives
 - up to 8 drive bays (and more)
 - up to hundreds of TB total storage





Network attached storage

- Configuration can be tricky
 - integrated web interface
 - lots of jargon
 - lots of options: double-edged sword
- Can be expensive





NAS: can be expensive

Synology DS124

- 1-bay (no disks)
- \$310



Western Digital My Cloud EX2 Ultra

- 2-bay
- 2x4TB
- \$435



- 2-bay
- 2x14TB
- \$1,085



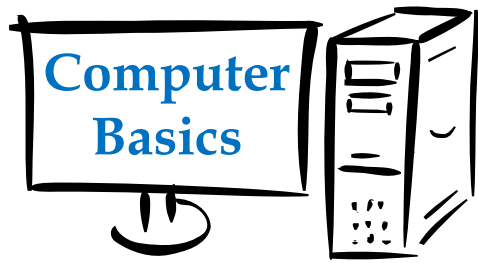
UGREEN

- 2-bay – 8-bay (no disks)
- \$550-\$2000
- Kickstarter up to 40% off



QNAP TS-873A

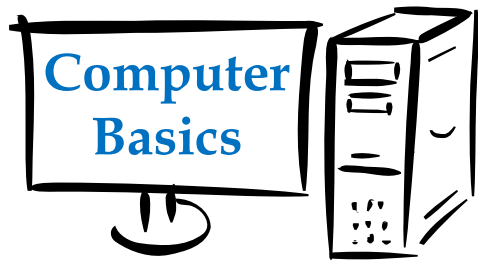
- 8-bay (no disks)
- \$1,480



Network attached storage summary

- Good
 - sharing lots of files to multiple computers
 - high performance access to data
 - security through redundancy & separation from computer
 - don't need all computers to be on
- Bad
 - can be tricky to configure
 - especially higher-end devices
 - can be expensive





LocalSend

- 3rd party program
- Easily transfer files and folders over Wi-Fi network
 - free
 - open source
 - cross platform
 - Windows
 - macOS
 - Linux
 - Android
 - iOS

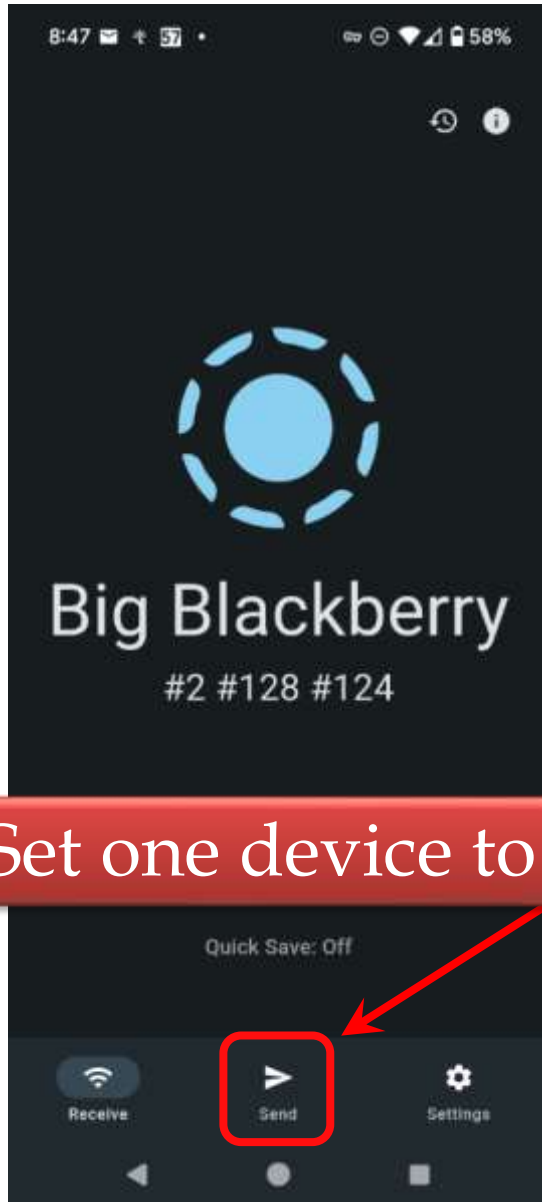
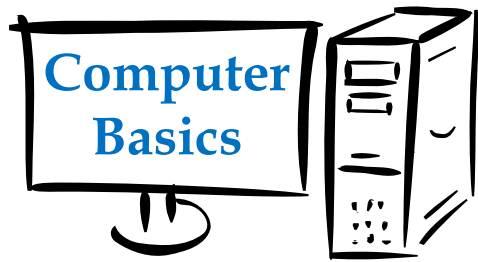


LocalSend

Share files to nearby devices.
Free, open-source, cross-platform

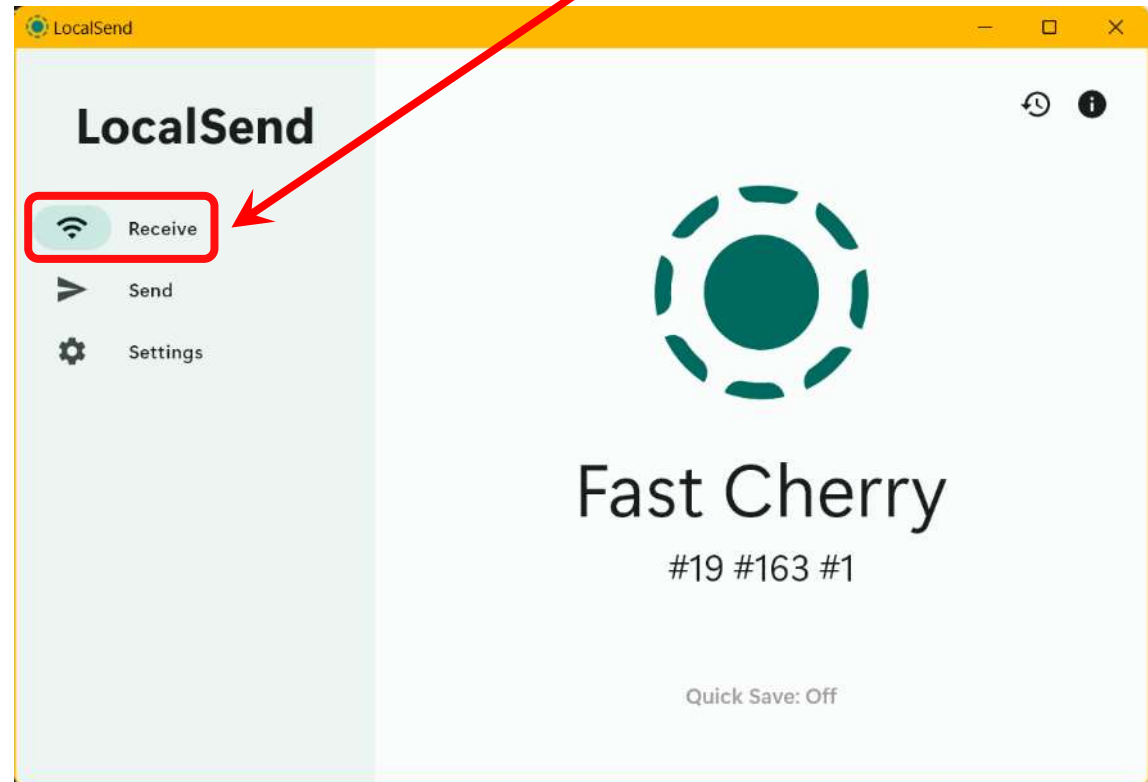


<https://localsend.org>



Set one device to *Send*

Set other device to *Receive*

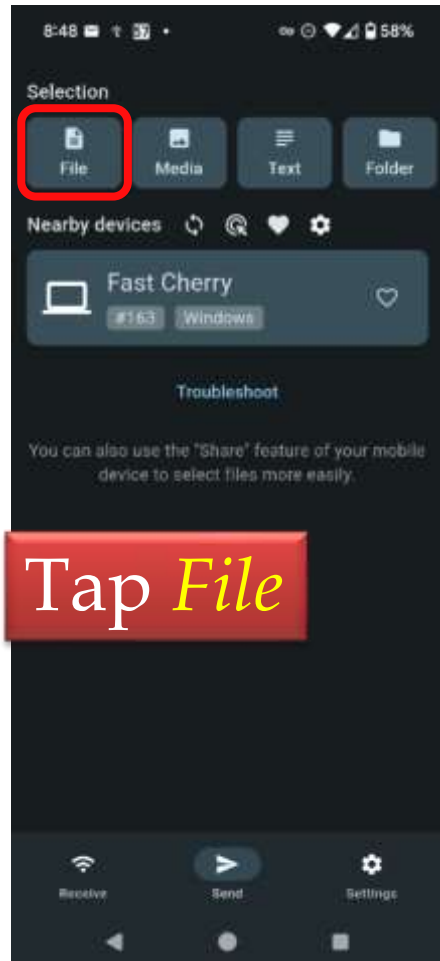


Computer Basics

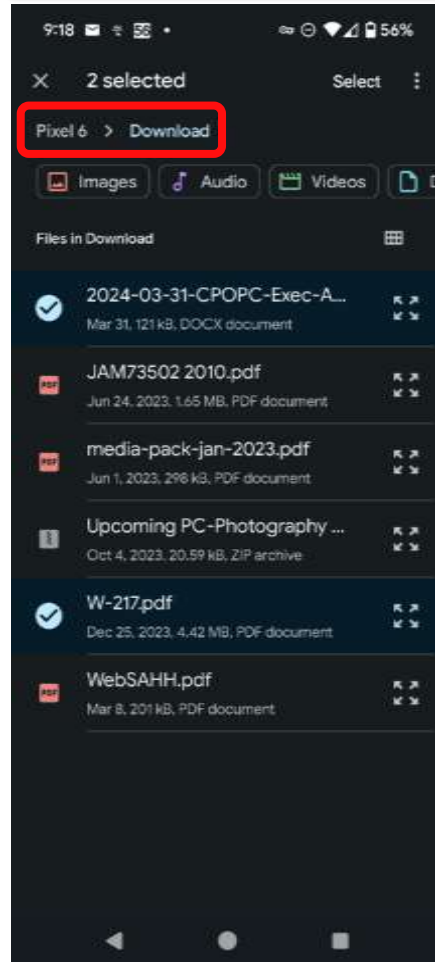


Sending files

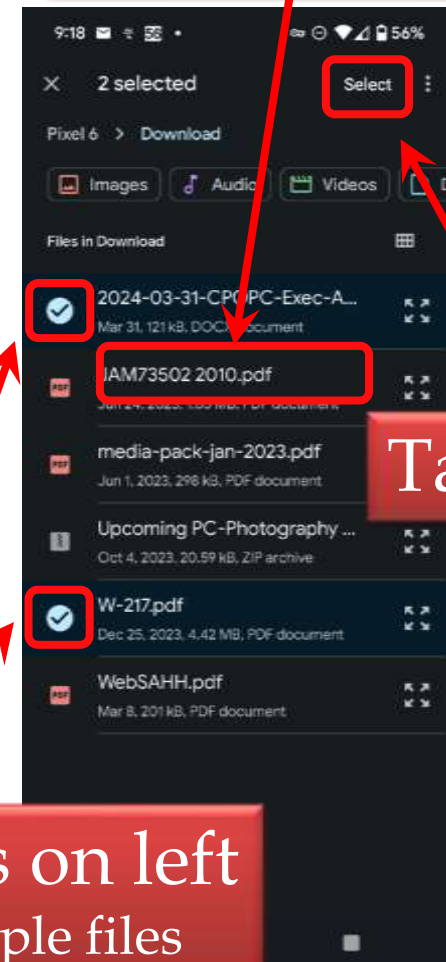
Navigate via breadcrumbs



Tap *File*

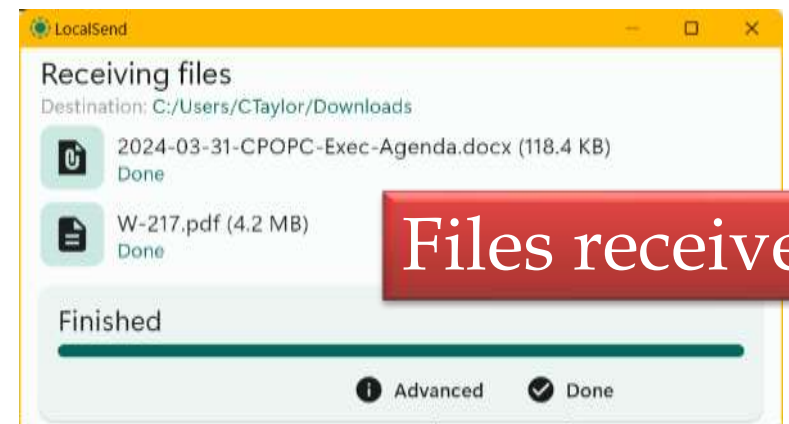
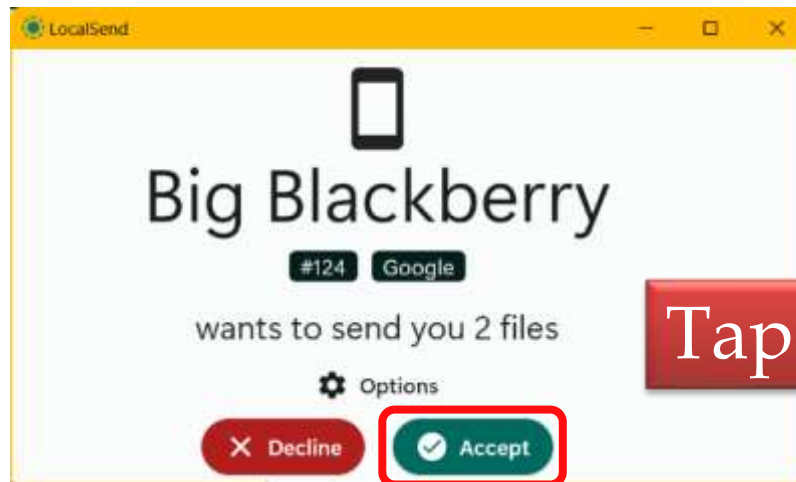
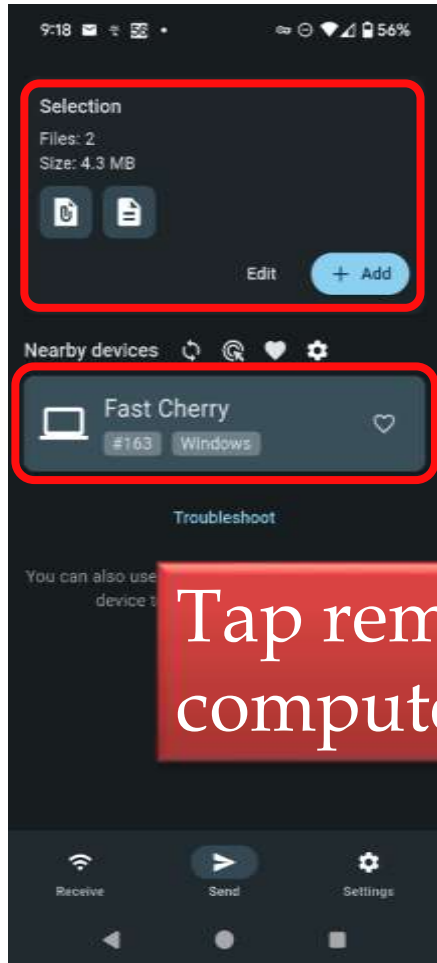
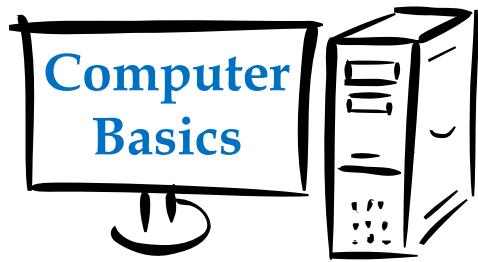


Tap filename
• for single file



Tap *Select*

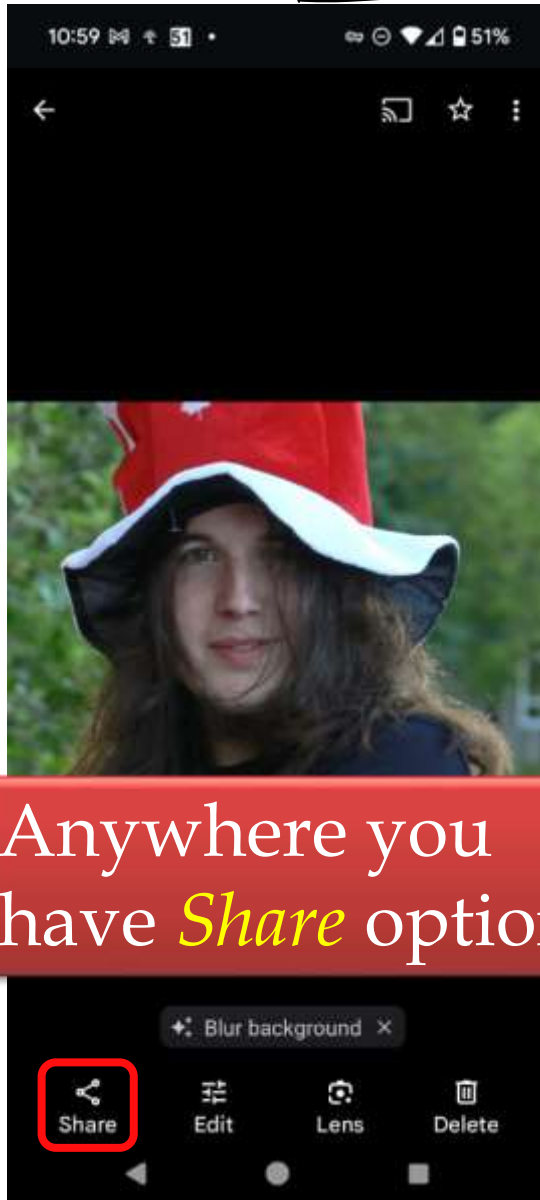
Tap icons on left
• for multiple files



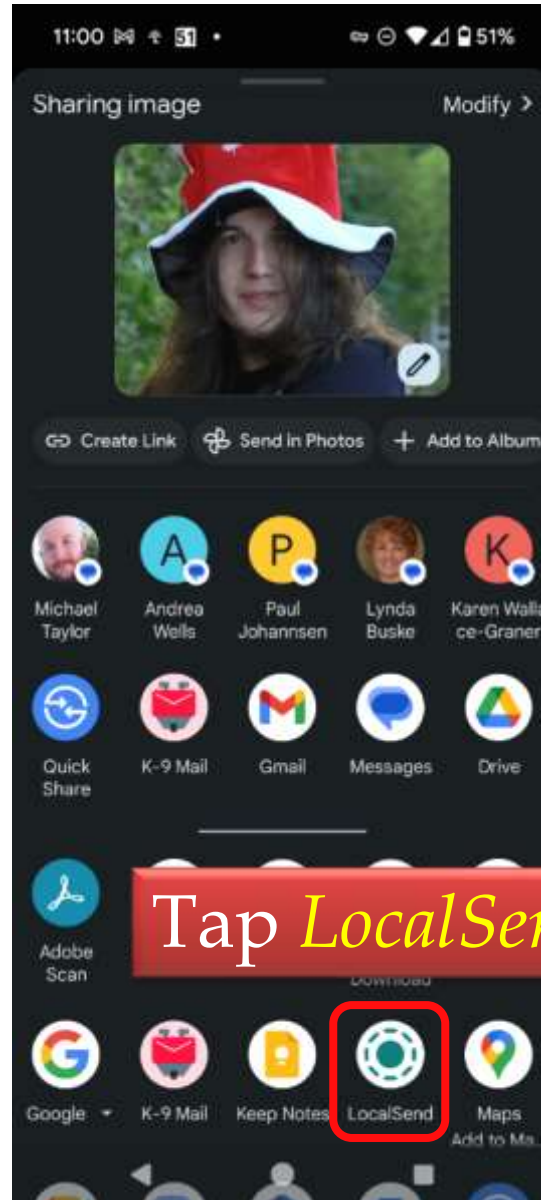
Computer Basics



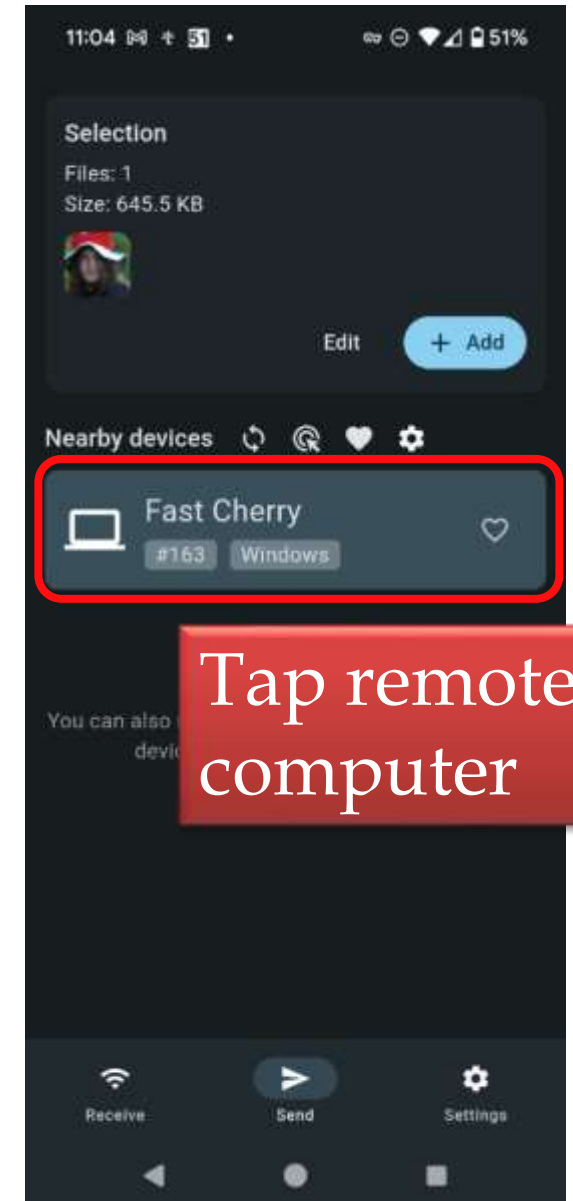
Fast LocalSend via *Share*



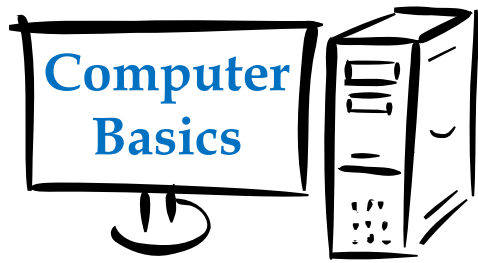
Anywhere you have *Share* option



Tap *LocalSend*

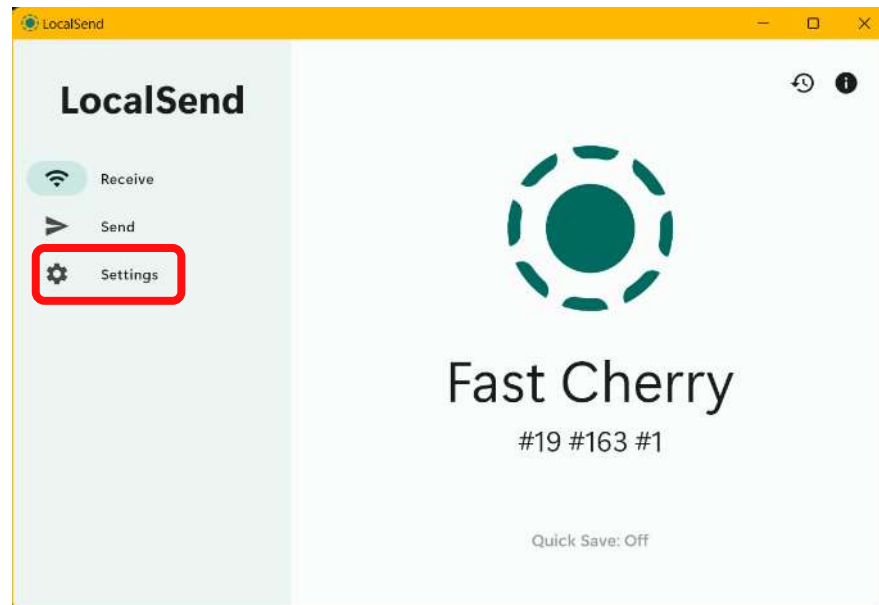


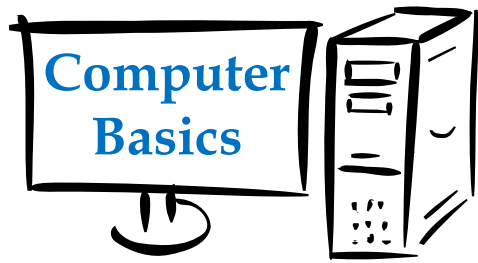
Tap remote computer



Settings

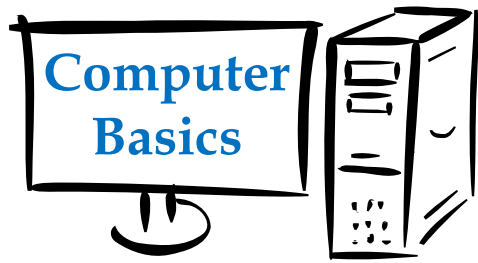
- Light/dark theme
- Language
- Autostart
- Destination folder
- Device name
- Much more





LocalSend summary

- Good
 - free and open source
 - cross platform (Windows, macOS, Linux, Android, iOS)
 - simple to use
 - can send plain text messages
 - can send folders
 - *Nearby Sharing* doesn't let you select folders
- Bad
 - requires 3rd party software download
 - but it's free
 - for Windows-to-Windows *Nearby Sharing* simpler
 - LocalSend is extra software to install
 - LocalSend must be running on each device



Q&A - May 15th

- Wrap up the series
- *Sharing Files – part 3*
 - traditional Windows network file sharing
- Call to action
 - there are other options for sharing files between devices
 - do you have a method you use?
 - can you let your fellow members know?
 - let us know at SuggestionBox@opcug.ca

Share

Sunday May 5th World Laughter Day

- Health benefits of laughter
 - produces a general sense of well-being
 - release of endorphins is triggered
 - boosts T-cells
 - improves cardiac health
 - works your abs
 - reduces stress hormone levels
 - lowers blood pressure





**Any other:
Questions
Comments
Shares?**

May Meeting



Free Software: What Can It Do For You?

Adam Hunt
Full Circle Magazine

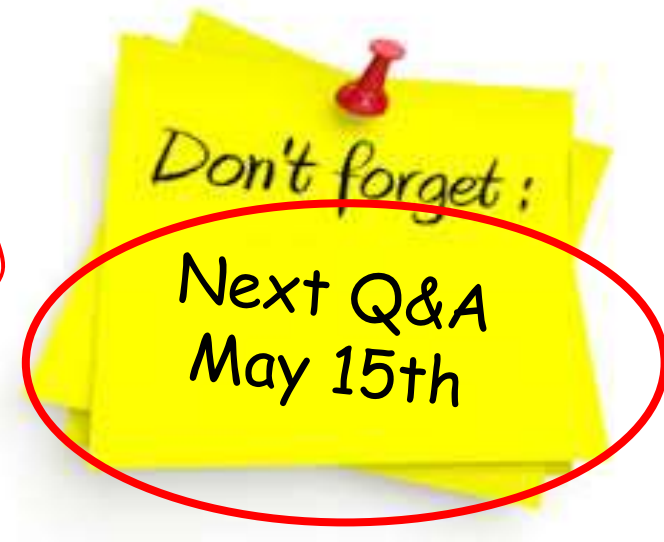
May 8, 2024
7:30 pm



Adam Hunt started using Ubuntu in 2007 and has used Lubuntu since 2010. He lives in Ottawa, Ontario, Canada, in a house with no Windows.



No Q&A on
May 8
(Monthly Meeting)



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

SuggestionBox@opcug.ca