



Alan German & Chris Taylor

Ottawa PC Users' Group

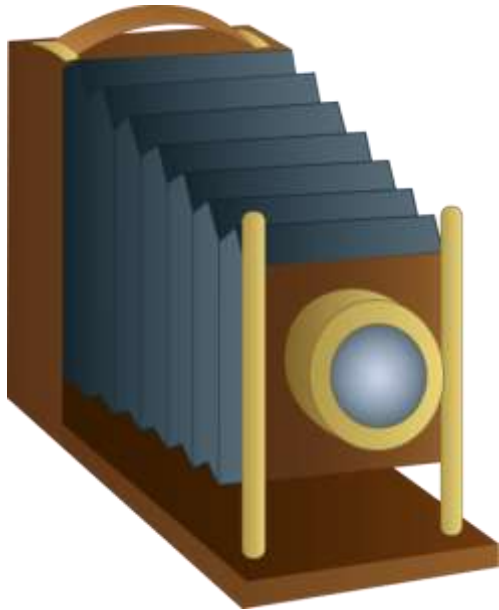
January 4, 2023

DIGITAL PHOTOGRAPHY

THROUGH THE LENS

A guide to digital photography for computer enthusiasts

Lynda Buske, a photo enthusiast, will cover various topics on how to improve your photography from conception to camera to computer. Digital photo editing on your PC allows you to rescue poor images and further enhance good ones. After the click of your camera, you're only half done!



What topics would you like to see discussed in future articles?

Follow-up

Off-line Index to Q&A



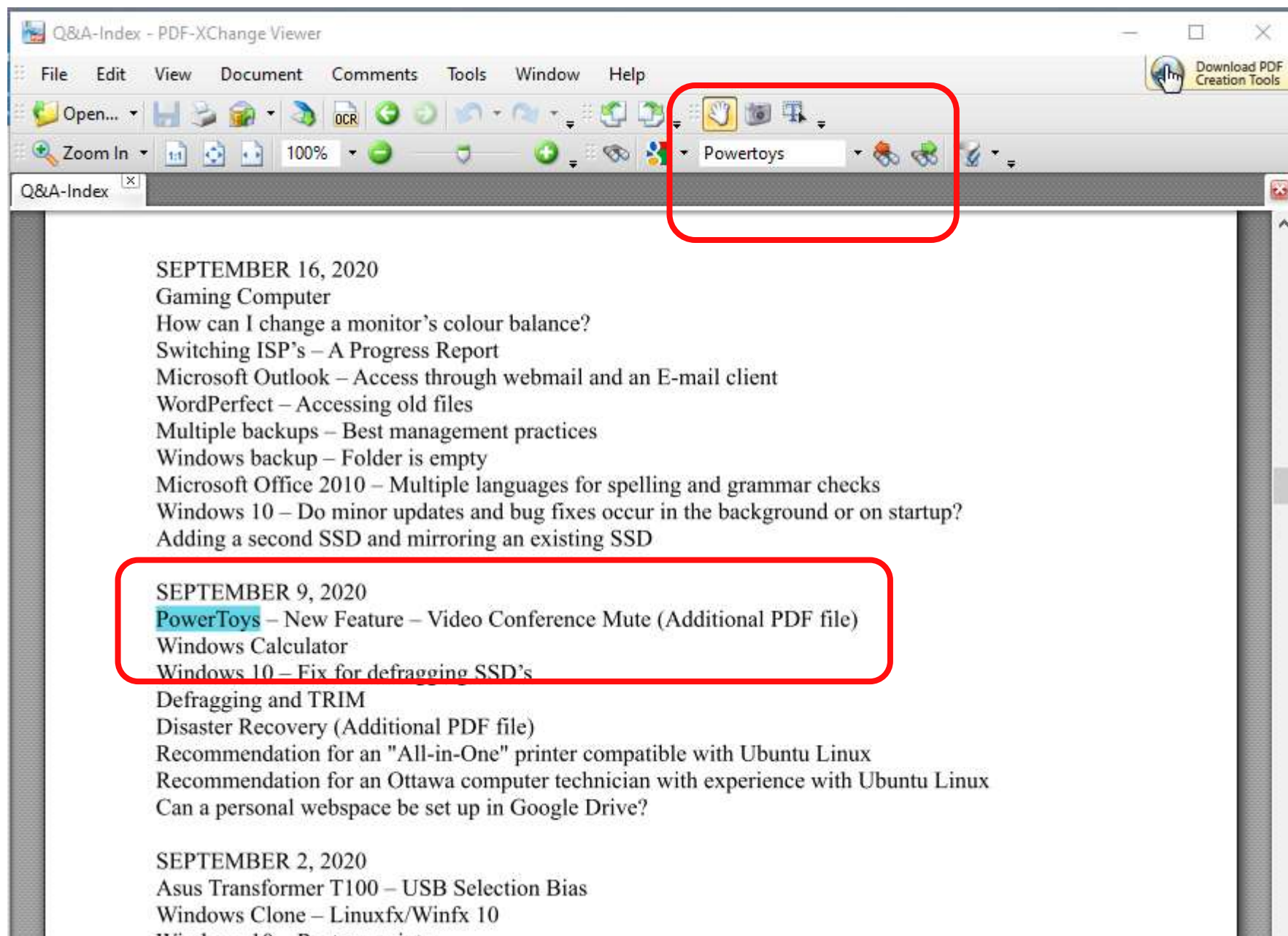
For the content of previous Q&A, sessions please see our:

[Q&A Session Archives](#)

(Includes presentations and audio recording from the weekly Q&A sessions and highlights from earlier sessions held at the club's regular monthly meetings)

You can also download the complete list of Q&A topics, including links to the web page archives, as a PDF file:

[Q&A-Index.pdf](#)





Useful Smartphone Apps



ReeBee

- One of the best apps for viewing store flyers
- Easily search for an item (like aluminum foil)
- See where the product is on sale
- Minor downside - app can't read the fine print or exclusions (e.g. items on sale only on specific days)
- May have to click on the flyer in the list

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



Useful Smartphone Apps



Our Groceries Shopping List

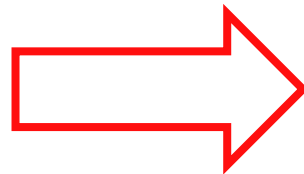
- Have your grocery list with you instead of that piece of paper at home on the fridge
- Use with multiple Android devices or a web browser
- List is synchronized across devices
- One-touch removes items when purchased
- Free, ad-based version or US \$20 lifetime licence

<https://play.google.com/store/apps/details?id=com.headcode.ourgroceries>



File transfer iPhone to PC

Could you do a presentation on the best ways to get your photos from iPad or iPhone onto your PC ?



A

1. Copy like lightning!

- Connect iPhone to PC using lightning-to-USB (charging) cable
- Load File Explorer
- Copy files from iPhone to PC folder



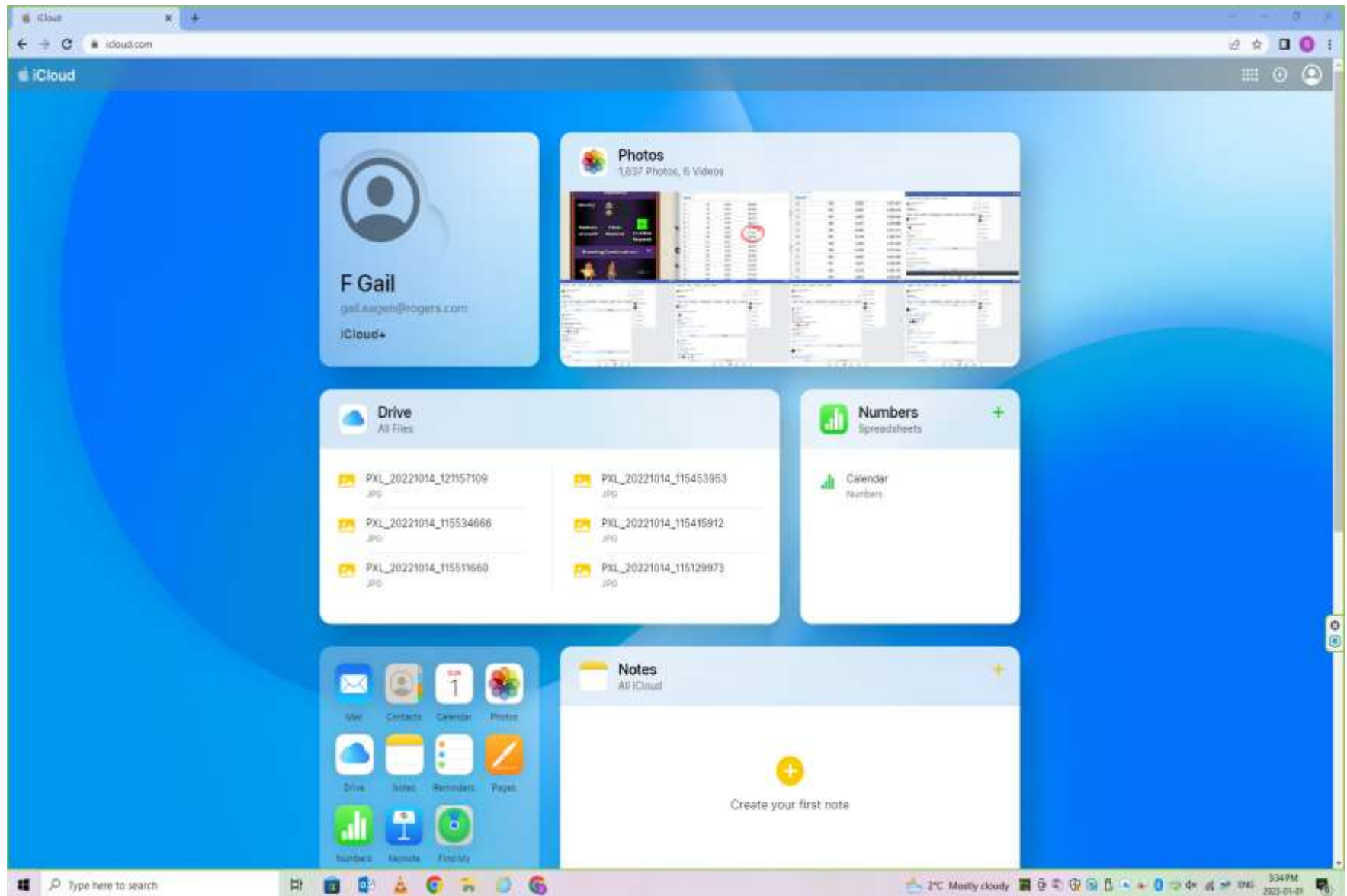
https://opcug.ca/qa_recordings/20221207_PowerPoint.pdf



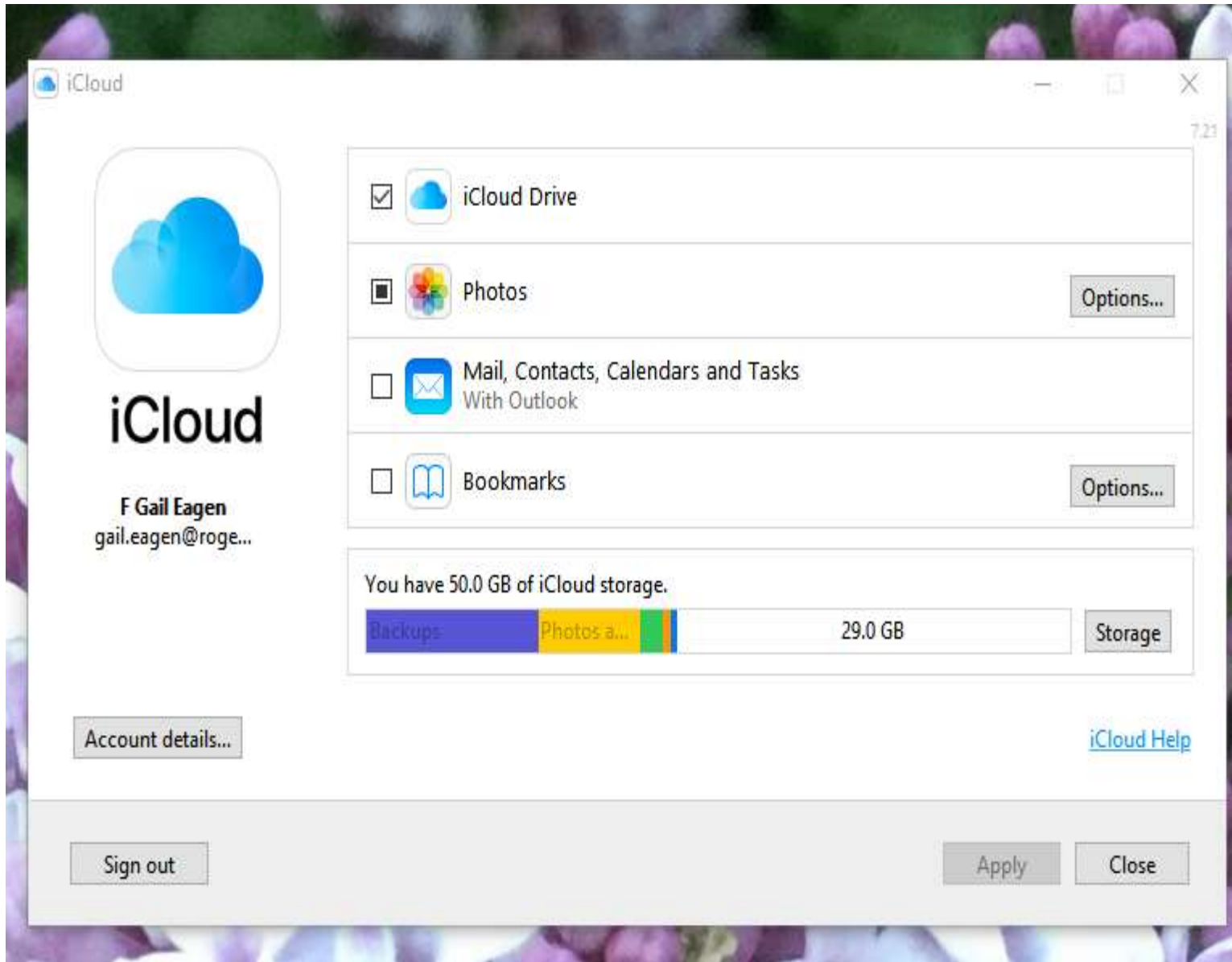
2. Use iCloud.com

- No need to connect iPhone to PC
- Go to iCloud.com in your PC browser
- Log in using your Apple ID and Password
- Tell iCloud.com to trust the PC

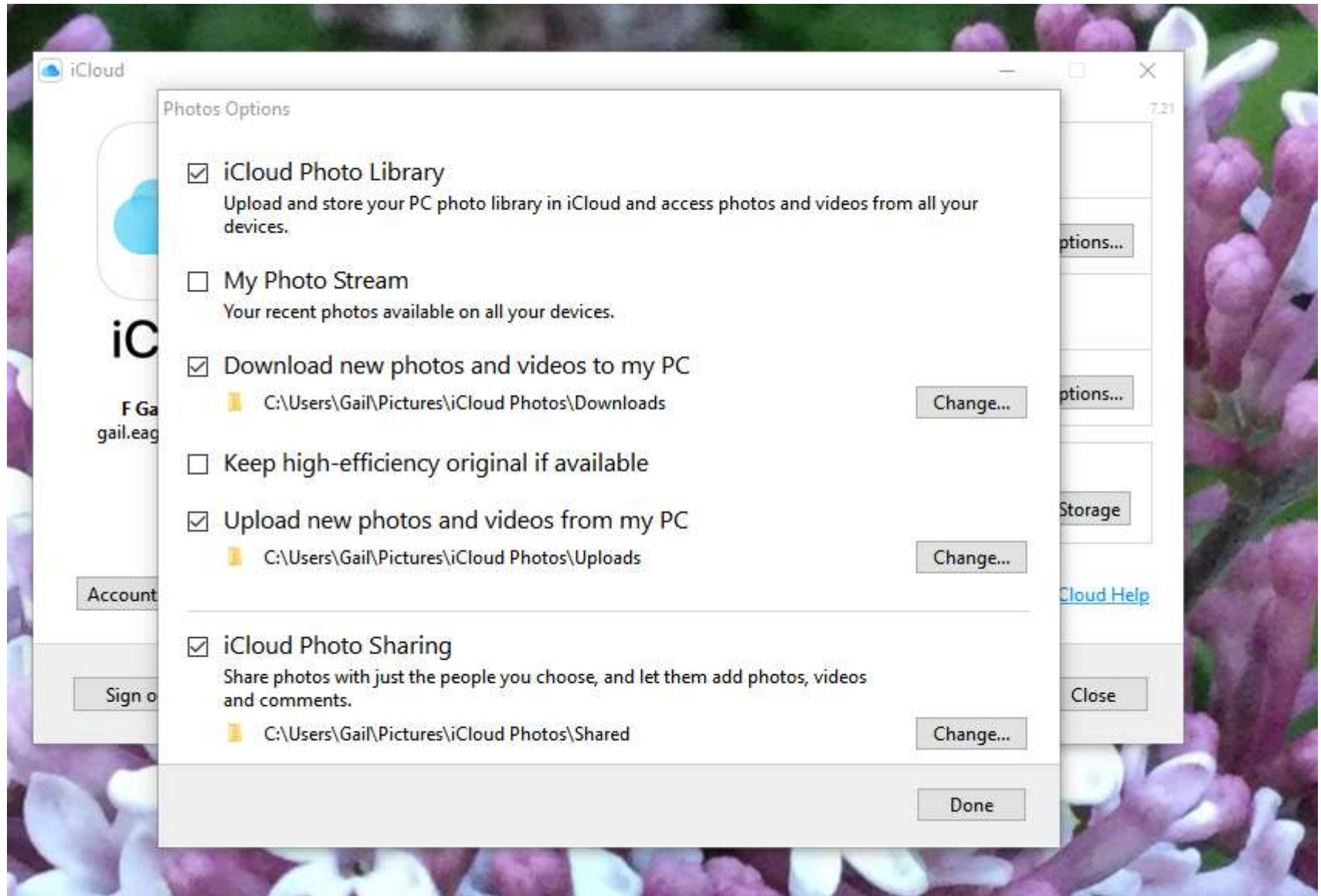
iCloud.com



iCloud.com Photos



iCloud.com Photos



iCloud.com Photos

iCloud Photos

Dec 29 – 31, 2022

Download 1 Item

- ☒ Unmodified Original
Original as captured or imported.
- ☐ Most Compatible
Including edits.

Cancel Download

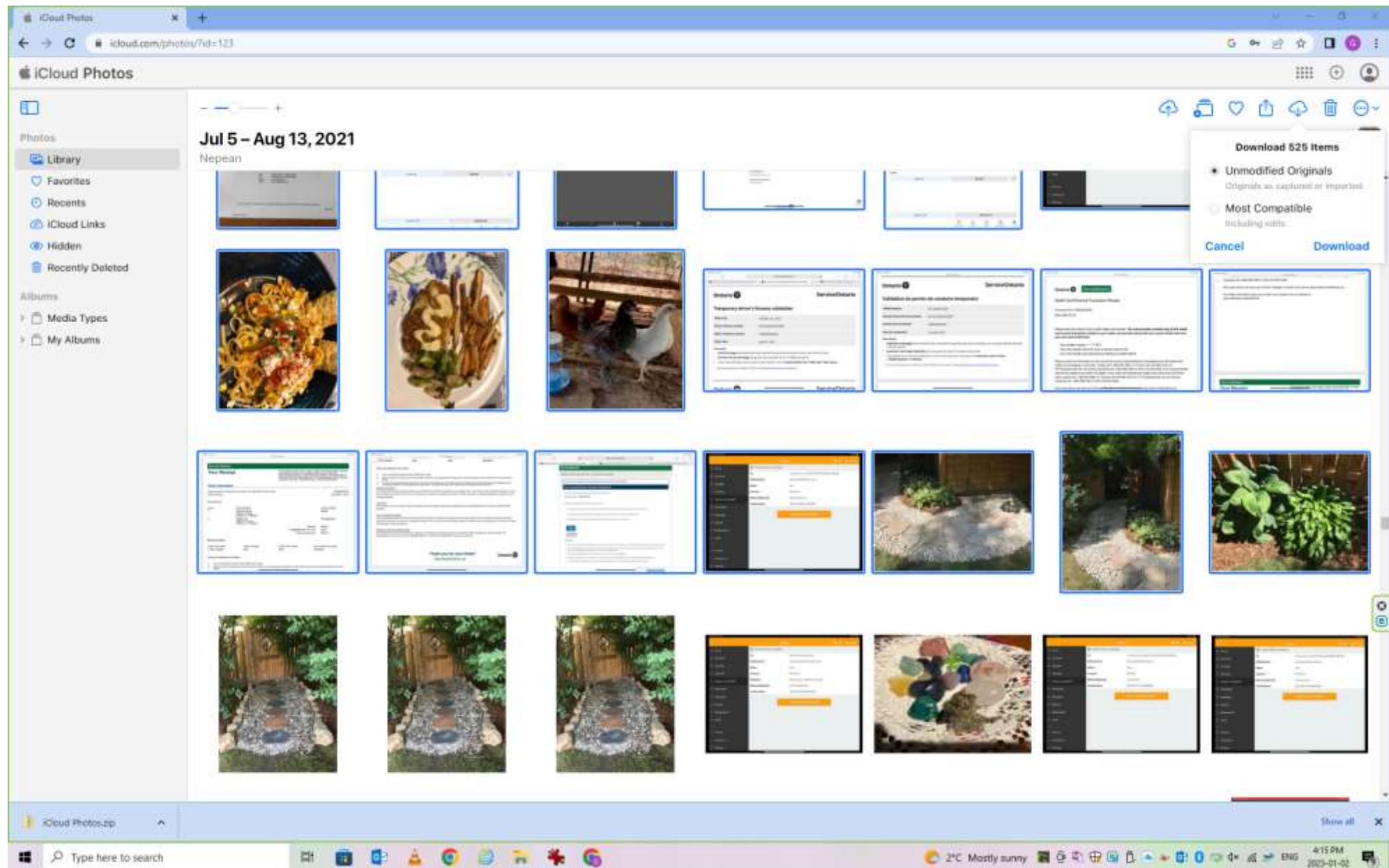
1,837 Photos, 6 Videos
Updated 5:35 PM

Don't forget:
Next Q&A
Jan 4th

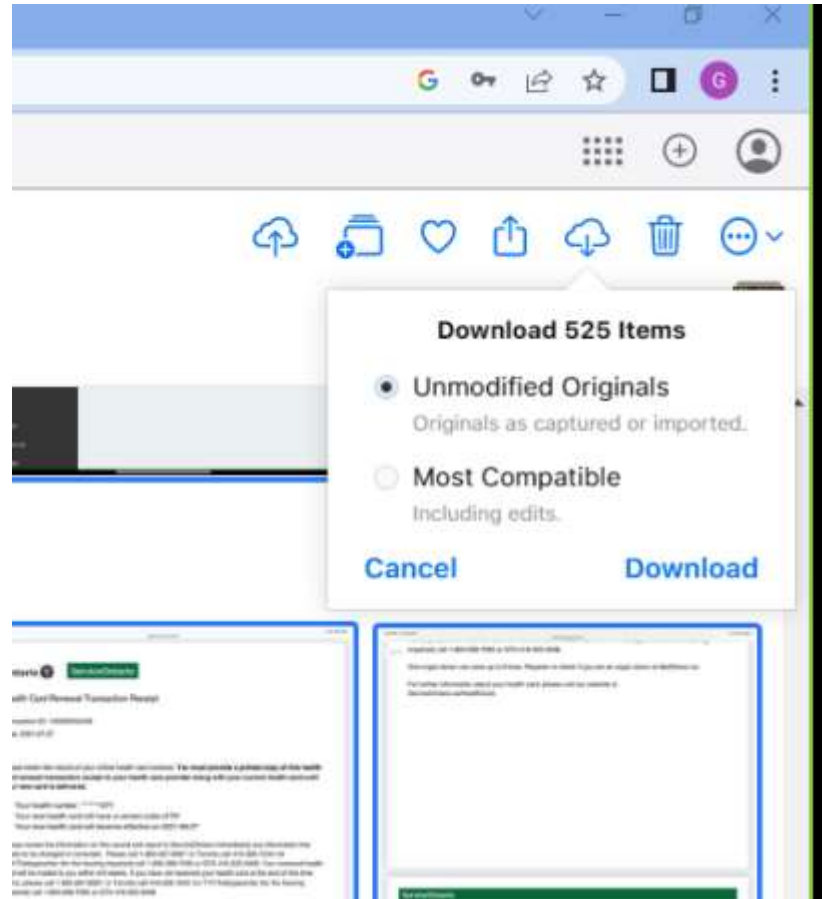
iCloud Photos – Download Photos:

- Select photos to be downloaded
- Can only download up to 1000 photos at a time
- The photos are downloaded by default to your Downloads folder
- Can create destination folders and download the photos directly there
- Photos are in a Zip folder named:
iCloud Photos.Zip

iCloud.com Photos



iCloud.com Photos



iCloud.com Photos

Downloads

File Home Share View

← → ↕ ⬇ This PC > Downloads

★ Quick access

Desktop

Downloads

Documents

Pictures

iCloud Photos

iCloud Drive

22021231 icloud photos

Downloads

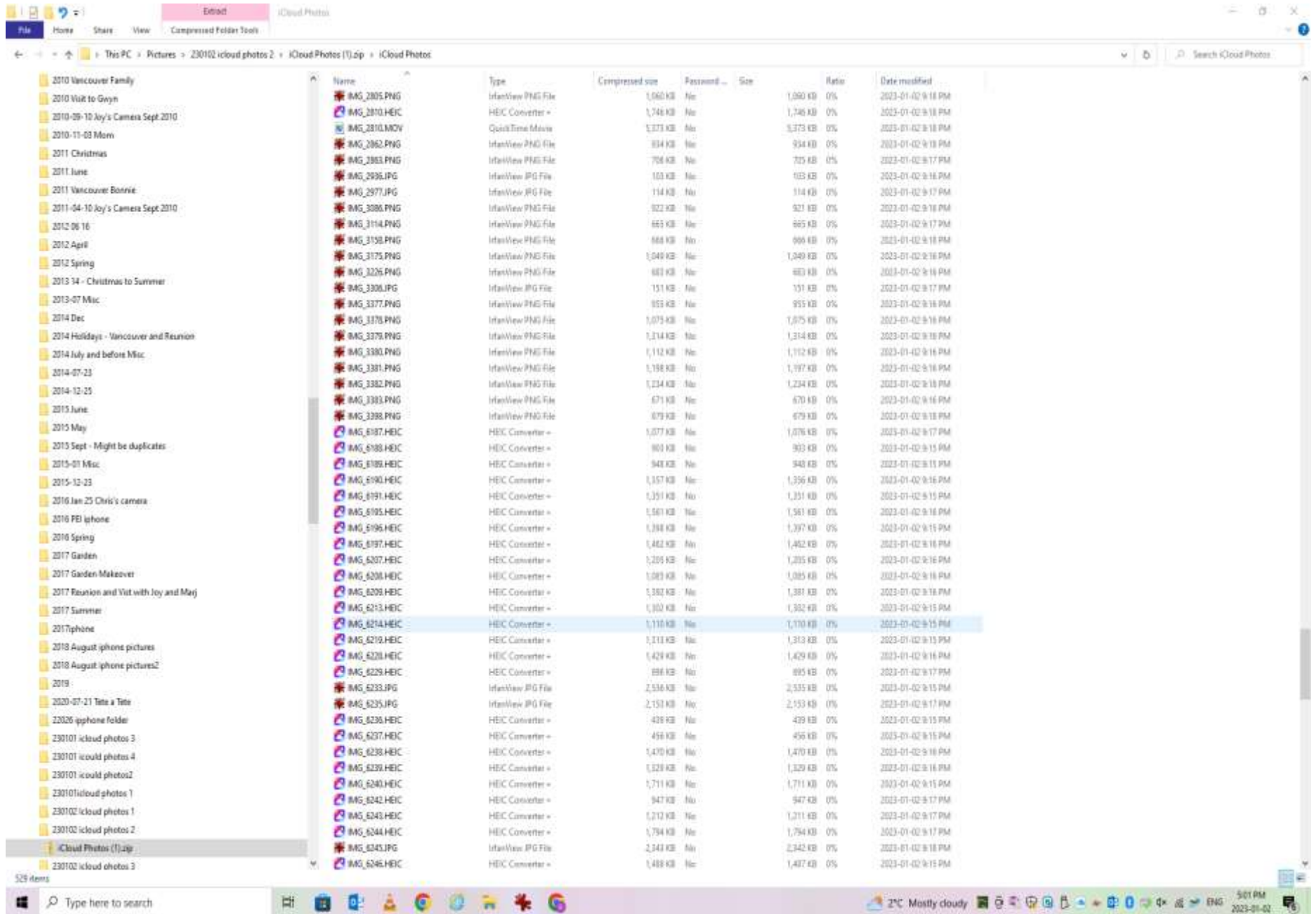
OPCUG

Name	Date modified	Type	Size
▼ Today (5)			
📁 iCloud Photos.zip	2023-01-02 4:12 PM	Compressed (zipp...	1,178,784 KB
📁 iCloud Photos (1).zip	2023-01-02 4:18 PM	Compressed (zipp...	744,744 KB
📁 iCloud Photos (2).zip	2023-01-02 4:19 PM	Compressed (zipp...	744,744 KB
📁 iCloud Photos (3).zip	2023-01-02 4:25 PM	Compressed (zipp...	1,661,986 KB
📁 iCloud Photos (4).zip	2023-01-02 4:34 PM	Compressed (zipp...	3,367,623 KB
▼ Yesterday (2)			
📄 IMG_8393 (1).PNG	2023-01-01 5:40 PM	IrfanView PNG File	82 KB
📄 IMG_8393.PNG	2023-01-01 5:39 PM	IrfanView PNG File	82 KB
▼ A long time ago (216)			

iCloud Photos – Download Photos:

- Open File Explorer (or your file manager of choice)
- Create a file folder (or folders) for the photos to be copied to (destination folders)
- Copy or move downloaded Zips to these destination folders if you use default
- Then unzip the folder(s)

iCloud.com Photos File Formats



The screenshot displays a Windows File Explorer window titled "iCloud Photos". The address bar shows the path: "This PC > Pictures > 230102 icloud photos 2 > iCloud Photos (1).zip > iCloud Photos". The left sidebar shows a tree view of folders, including "2010 Vancouver Family", "2010 Visit to Gwyn", "2010-09-10 Joy's Camera Sept 2010", "2010-11-03 Mom", "2011 Christmas", "2011 June", "2011 Vancouver Bonnie", "2011-04-10 Joy's Camera Sept 2010", "2012 06 16", "2012 April", "2012 Spring", "2013 14 - Christmas to Summer", "2013-07 Misc", "2014 Dec", "2014 Holidays - Vancouver and Reunion", "2014 July and before Misc", "2014-07-23", "2014-12-25", "2015 June", "2015 May", "2015 Sept - Might be duplicates", "2015-01 Misc", "2015-12-23", "2016 Jan 23 Chris's camera", "2016 FBI iPhone", "2016 Spring", "2017 Garden", "2017 Garden Makeovers", "2017 Reunion and Visit with Joy and Marj", "2017 Summer", "2017 iPhone", "2018 August iPhone pictures", "2018 August iPhone pictures2", "2019", "2020-07-21 Tete a Tete", "2026 iPhone folder", "230101 icloud photos 3", "230101 icloud photos 4", "230101 icloud photos2", "230101 icloud photos 1", "230102 icloud photos 1", "230102 icloud photos 2", "230102 icloud photos 3", and "iCloud Photos (1).zip".

The right pane shows a list of files with the following columns: Name, Type, Compressed size, Password, Size, Ratio, and Date modified. The files are listed in chronological order from top to bottom.

Name	Type	Compressed size	Password	Size	Ratio	Date modified
IMG_2805.PNG	InterView PNG File	1,060 KB	No	1,060 KB	0%	2023-01-02 9:18 PM
IMG_2810.HEIC	HEIC Converter +	1,746 KB	No	1,746 KB	0%	2023-01-02 9:18 PM
IMG_2810.MOV	QuickTime Movie	5,373 KB	No	5,373 KB	0%	2023-01-02 9:18 PM
IMG_2862.PNG	InterView PNG File	934 KB	No	934 KB	0%	2023-01-02 9:18 PM
IMG_2863.PNG	InterView PNG File	706 KB	No	706 KB	0%	2023-01-02 9:17 PM
IMG_2936.JPG	InterView JPG File	103 KB	No	103 KB	0%	2023-01-02 9:16 PM
IMG_2977.JPG	InterView JPG File	114 KB	No	114 KB	0%	2023-01-02 9:17 PM
IMG_3086.PNG	InterView PNG File	922 KB	No	922 KB	0%	2023-01-02 9:18 PM
IMG_3114.PNG	InterView PNG File	665 KB	No	665 KB	0%	2023-01-02 9:17 PM
IMG_3158.PNG	InterView PNG File	666 KB	No	666 KB	0%	2023-01-02 9:18 PM
IMG_3175.PNG	InterView PNG File	1,049 KB	No	1,049 KB	0%	2023-01-02 9:16 PM
IMG_3226.PNG	InterView PNG File	683 KB	No	683 KB	0%	2023-01-02 9:18 PM
IMG_3306.JPG	InterView JPG File	151 KB	No	151 KB	0%	2023-01-02 9:17 PM
IMG_3377.PNG	InterView PNG File	955 KB	No	955 KB	0%	2023-01-02 9:18 PM
IMG_3378.PNG	InterView PNG File	1,075 KB	No	1,075 KB	0%	2023-01-02 9:18 PM
IMG_3379.PNG	InterView PNG File	1,314 KB	No	1,314 KB	0%	2023-01-02 9:18 PM
IMG_3380.PNG	InterView PNG File	1,112 KB	No	1,112 KB	0%	2023-01-02 9:18 PM
IMG_3381.PNG	InterView PNG File	1,198 KB	No	1,197 KB	0%	2023-01-02 9:18 PM
IMG_3382.PNG	InterView PNG File	1,234 KB	No	1,234 KB	0%	2023-01-02 9:18 PM
IMG_3383.PNG	InterView PNG File	671 KB	No	670 KB	0%	2023-01-02 9:16 PM
IMG_3388.PNG	InterView PNG File	679 KB	No	679 KB	0%	2023-01-02 9:18 PM
IMG_6187.HEIC	HEIC Converter +	1,077 KB	No	1,076 KB	0%	2023-01-02 9:17 PM
IMG_6188.HEIC	HEIC Converter +	903 KB	No	903 KB	0%	2023-01-02 9:15 PM
IMG_6189.HEIC	HEIC Converter +	948 KB	No	948 KB	0%	2023-01-02 9:15 PM
IMG_6190.HEIC	HEIC Converter +	1,357 KB	No	1,356 KB	0%	2023-01-02 9:16 PM
IMG_6191.HEIC	HEIC Converter +	1,351 KB	No	1,351 KB	0%	2023-01-02 9:15 PM
IMG_6195.HEIC	HEIC Converter +	1,561 KB	No	1,561 KB	0%	2023-01-02 9:16 PM
IMG_6196.HEIC	HEIC Converter +	1,388 KB	No	1,397 KB	0%	2023-01-02 9:15 PM
IMG_6197.HEIC	HEIC Converter +	1,462 KB	No	1,462 KB	0%	2023-01-02 9:16 PM
IMG_6207.HEIC	HEIC Converter +	1,205 KB	No	1,205 KB	0%	2023-01-02 9:16 PM
IMG_6208.HEIC	HEIC Converter +	1,083 KB	No	1,085 KB	0%	2023-01-02 9:16 PM
IMG_6209.HEIC	HEIC Converter +	1,382 KB	No	1,381 KB	0%	2023-01-02 9:16 PM
IMG_6213.HEIC	HEIC Converter +	1,302 KB	No	1,302 KB	0%	2023-01-02 9:15 PM
IMG_6214.HEIC	HEIC Converter +	1,110 KB	No	1,110 KB	0%	2023-01-02 9:15 PM
IMG_6219.HEIC	HEIC Converter +	1,113 KB	No	1,113 KB	0%	2023-01-02 9:15 PM
IMG_6228.HEIC	HEIC Converter +	1,429 KB	No	1,429 KB	0%	2023-01-02 9:16 PM
IMG_6229.HEIC	HEIC Converter +	896 KB	No	895 KB	0%	2023-01-02 9:17 PM
IMG_6233.JPG	InterView JPG File	2,536 KB	No	2,535 KB	0%	2023-01-02 9:15 PM
IMG_6235.JPG	InterView JPG File	2,153 KB	No	2,153 KB	0%	2023-01-02 9:17 PM
IMG_6236.HEIC	HEIC Converter +	426 KB	No	426 KB	0%	2023-01-02 9:15 PM
IMG_6237.HEIC	HEIC Converter +	456 KB	No	456 KB	0%	2023-01-02 9:15 PM
IMG_6238.HEIC	HEIC Converter +	1,470 KB	No	1,470 KB	0%	2023-01-02 9:16 PM
IMG_6239.HEIC	HEIC Converter +	1,329 KB	No	1,329 KB	0%	2023-01-02 9:16 PM
IMG_6240.HEIC	HEIC Converter +	1,711 KB	No	1,711 KB	0%	2023-01-02 9:15 PM
IMG_6242.HEIC	HEIC Converter +	947 KB	No	947 KB	0%	2023-01-02 9:17 PM
IMG_6243.HEIC	HEIC Converter +	1,212 KB	No	1,211 KB	0%	2023-01-02 9:17 PM
IMG_6244.HEIC	HEIC Converter +	1,794 KB	No	1,794 KB	0%	2023-01-02 9:17 PM
IMG_6245.JPG	InterView JPG File	2,343 KB	No	2,342 KB	0%	2023-01-02 9:18 PM
IMG_6246.HEIC	HEIC Converter +	1,488 KB	No	1,487 KB	0%	2023-01-02 9:15 PM

The status bar at the bottom shows "529 items". The taskbar at the bottom of the screen shows the Windows Start button, a search bar, and various application icons. The system tray on the right shows the date and time as "5:01 PM 2023-01-02" and the weather as "2°C Mostly cloudy".

iCloud Photos – Download Photos:

- Some images are jpegs, pngs and HEIC format
- HEIC is High-Efficiency Image Container, a subset of High Efficiency Image File Format (HEIF), a more efficient file encoding system than JPG and developed by Apple.

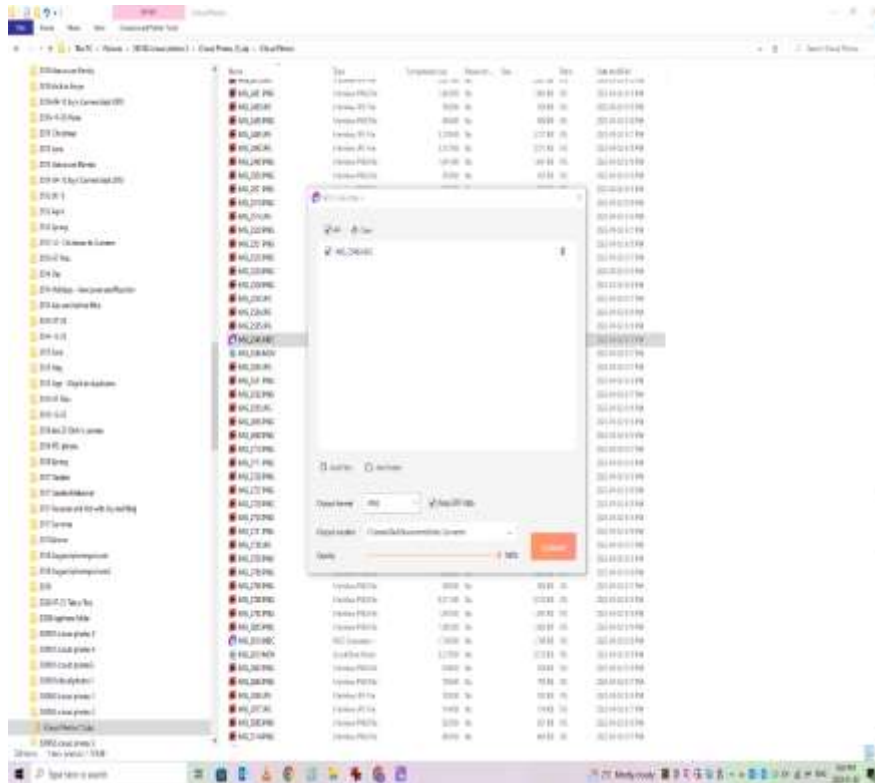
(See: https://en.wikipedia.org/wiki/High_Efficiency_Image_File_Format)

- Need an HEIC Converter program

iCloud Photos –HEIC Conversion:

- Several available, various vendors including Microsoft
 - Microsoft Store has a free limited version with a limit on the number of images (HEIC Converter)
 - Microsoft Store has a version to purchase for \$1.29 CDN plus tax (HEIC to Jpeg)
 - Both convert one image at a time!!!
- On Sept 29, 2021 Q&A, Chris covered a free utility that allows you to preview, browse, print and convert HEIC images on Windows. Free for personal use.
 - <https://www.copytrans.net/copytransheic/>
 - https://opcug.ca/qa_recordings/20210929_PowerPoint.pdf

iCloud.com – Converting HEIC format



This PC > Windows (C:) > Users > Gail > Documents > Heic Converter



Download Photos from iPhone to PC:

- There are other methods of downloading photos from your iPhone or iPad.
- Some sites say to use iTunes. I have not tried that except for music.
- Some sites say to use the Windows iCloud App. I have tried that but the images selected did not match my device so I found this confusing.

Good luck!



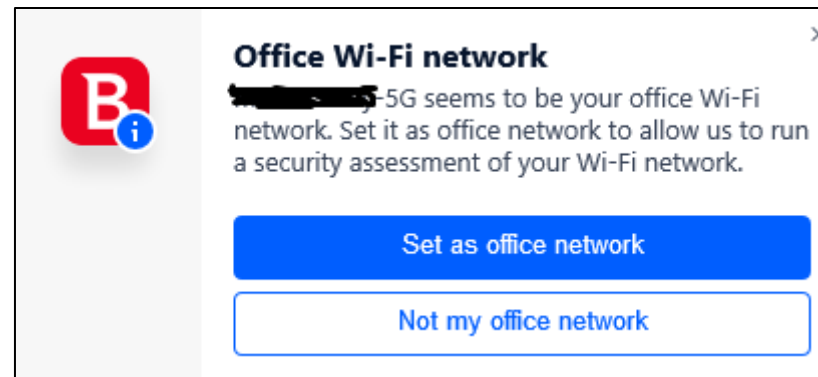


Wi-Fi network warning



Bitdefender®

- When I boot up my computer I get this message from Bitdefender
 - should I say yes?
 - ramifications of scanning my Wi-Fi network?





From Bitdefender



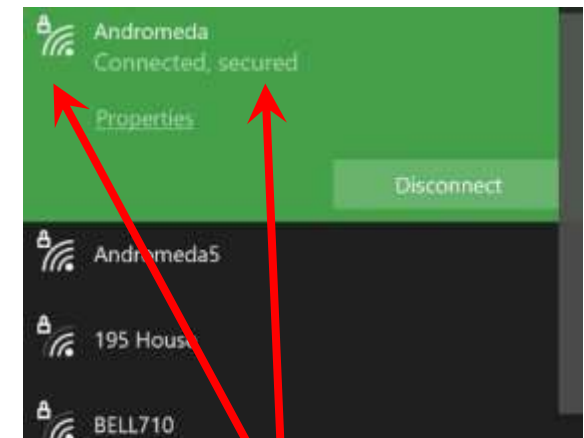
Bitdefender®

- *To safeguard you against the perils of unsecured or unencrypted public Wi-Fi, Bitdefender Wi-Fi Security Advisor analyzes how secure a wireless network is, and when necessary, it recommends you to use Bitdefender VPN.*
- Bitdefender is protecting you from scary stuff!
- Or is it?

A

So what is it actually doing?

- ...analyzes how secure a wireless network is
- Looks like it is just determining if the Wi-Fi network you are connected to is encrypted
- No big deal, you should already know this!

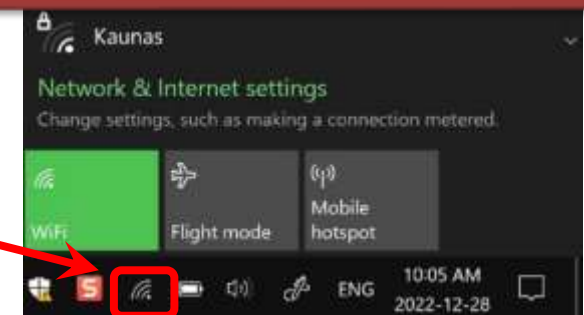


2

- look for “secured” vs. “open”
- closed lock vs. shield with !

1

- click WiFi tray icon





But what about...?

- But isn't it good to be warned?
 - well, yes
 - people who frequent Q&A probably already know this
- But what about when you're on a public Wi-Fi hotspot?
 - well, yes
 - being reminded that your traffic is unencrypted could be good
 - people who frequent Q&A probably already know this
- But what's this about recommending a VPN?
 - well, yes
 - if you frequent Q&A you already know the benefits and limitations of VPN
 - a VPN is *not* a panacea!



So why the Bitdefender warning?

- Maybe trying to show they give you more for your money than free security products
- Maybe trying to convince you to buy their VPN product
- Maybe it is actually doing a bit more
- Bitdefender Home Scanner (free tool)
 - *scans your Wi-Fi network, maps devices and identifies & highlights network security flaws*
 - *looks for weak passwords, as well as vulnerable or poorly encrypted communications*
 - *correlates information gathered from your connected devices with online vulnerability databases & gives you a thorough report so you can ensure maximum security for your network*
 - <https://www.bitdefender.com/solutions/home-scanner.html>

A Why free?

- *Why is Bitdefender Home Scanner delivered for free?*
 - *Our tech-savvy people are exploring every day the needs of our customers to find simple and effective solutions for the unforeseen network attacks. By delivering this product for free we give you the possibility to stay informed at no cost about the possible threats that may violate your privacy*

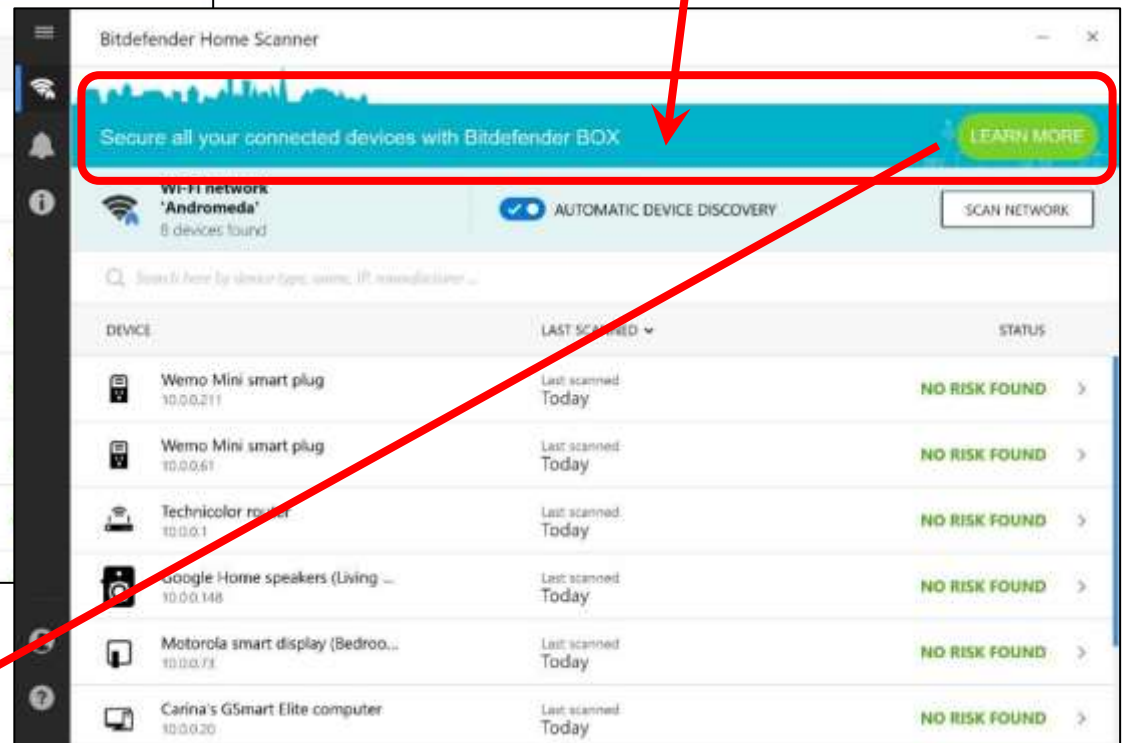
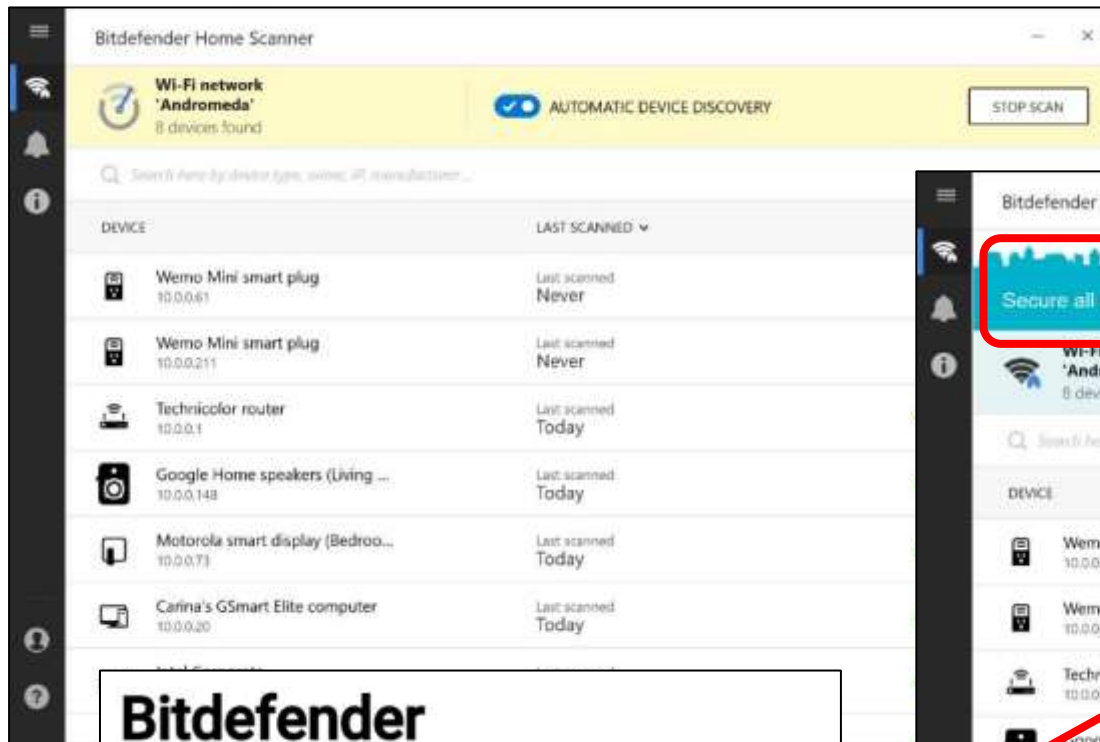
Okay – I'll bite!



A

Scan my home network

Aha – an ad



Bitdefender Smart Home Cybersecurity

IOT Security Solutions for All Connected Devices

Secure your connected home

Simple, easy-to-use protection for all your devices.

See available options

- ✓ Advanced protection for all smart devices
- ✓ Privacy & security for the entire family
- ✓ Award-winning cybersecurity technologies
- ✓ Available in multiple hardware configurations

A

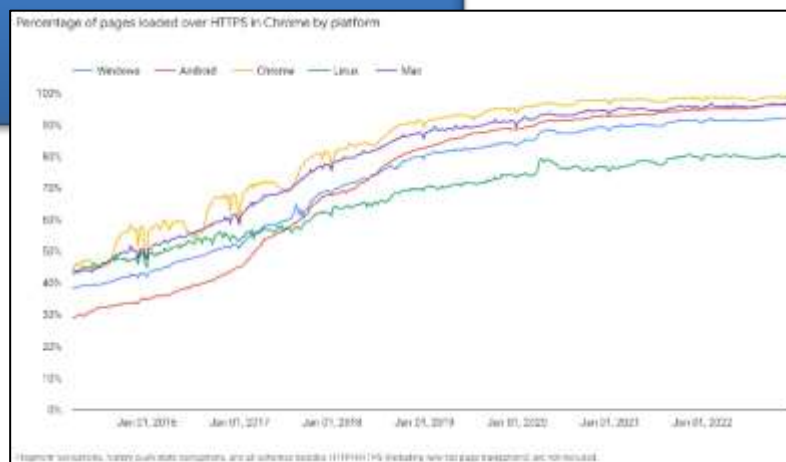
Is it worth using?

Maybe: but even if on an open Wi-Fi

- may not be significant vulnerability
- vast majority of access encrypted

Top 100 non-Google sites on the Internet
(approximately 25% of all website traffic worldwide)

- sites that default to HTTPS: 97%
- sites that work on HTTPS: 100%



Using Home Scanner on Public networks is not recommended.



Is it worth using?

- Be careful about security tools
 - might give a false sense of security
- You have to understand any identified *vulnerabilities*
- Keep coming to Q&A
- Keep asking questions
- Read background info on VPNs
 - https://opcug.ca/qa_recordings/20211215_PowerPoint.pdf
 - https://opcug.ca/qa_recordings/20211222_PowerPoint.pdf
 - https://opcug.ca/qa_recordings/20200902_PowerPoint.pdf
 - https://opcug.ca/qa_recordings/20200805_PowerPoint.pdf
 - https://opcug.ca/qa_recordings/20200722_PowerPoint.pdf
 - A quick look at VPNs - <https://opcug.ca/qa-2020/>

OPCUG



Spam & Filters

Users helping users

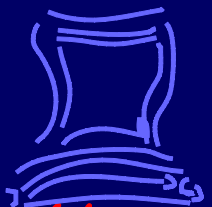
Adaptive junk mail

Thunderbird has adaptive junk mail settings. That means that it keeps track of messages that you mark as “junk” or “not junk” and uses them as a template for figuring whether incoming messages should be automatically marked as junk.

In order for the adaptive junk mail detection to have enough information to work well Thunderbird needs your help identifying roughly 100 junk mail messages and 100 non-junk messages. Once you’ve gone through this training period Thunderbird should be pretty good at recognizing what is junk and what isn’t.

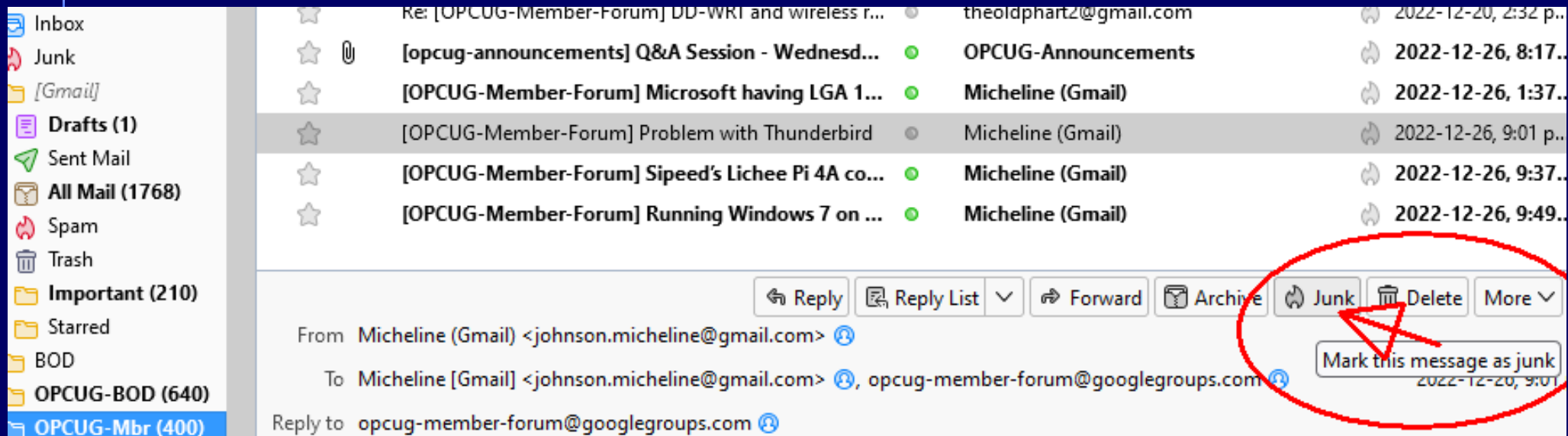
Source: <https://sites.hampshire.edu/hamp-it/2016/03/10/junk-mail-controls-in-thunderbird/>

OPCUG



Users helping users

Mark message as junk



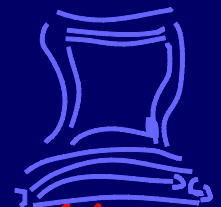
If a message in your inbox is junk, called a false negative, then

- Select the inbox (or other) folder
- Select the email that is a junk
- Click on “Junk”
- Or alternatively click on the junk icon



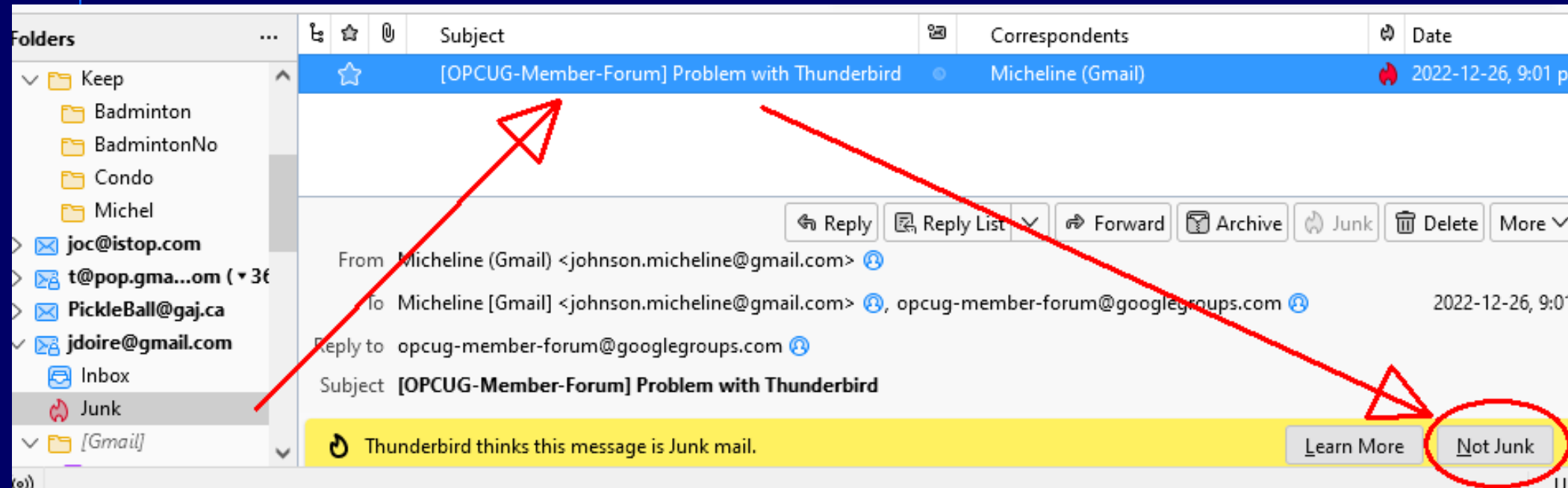
The message will be moved to the “Junk” folder

OPCUG



Users helping users

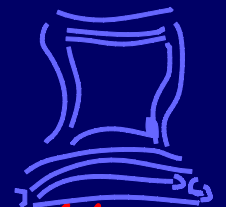
Not Junk



If a message end up in the junk folder, called a false positive, then

- Select the junk folder
- Select the email that is a false positive
- Click on “Not Junk”

OPCUG



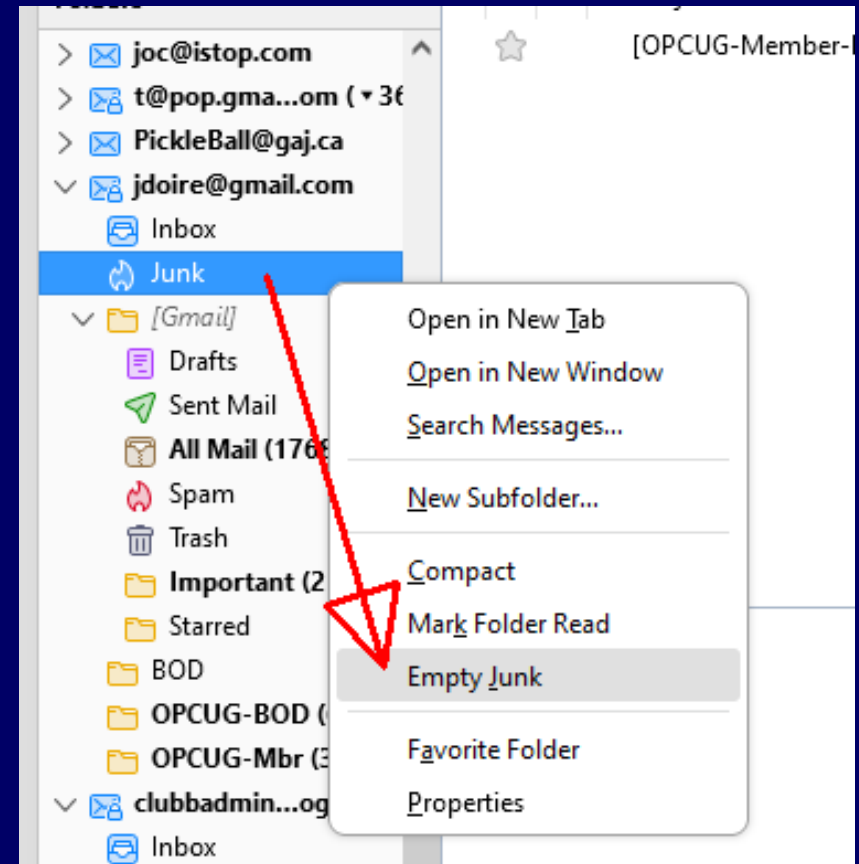
Users helping users

Empty Junk

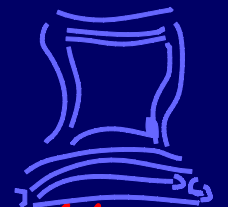
Never delete spam, instead:

- Select the junk folder
- Check that all the emails in the junk folder are indeed junk email, if so
- Right click on the “Junk” folder
- Select “Empty Junk”

Using “Empty Junk” will remove all the junk emails permanently, they are not saved in the trash folder either, so use cautiously.



OPCUG



Users helping users

Privacy & Security

More options are available under Tools > Settings > Privacy & Security

- The option to move or delete spam; if you delete you may miss false positive
- Reset Training data; could be helpful if not trained initially correctly

Junk

Set your default junk mail settings. Account-specific junk mail settings can be configured in Account Settings.

☒ When I mark messages as junk:

☒ Move them to the account's "Junk" folder

☐ Delete them

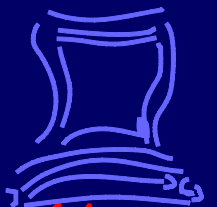
☐ Mark messages determined to be Junk as read

☐ Enable adaptive junk filter logging

Show log

Reset Training Data

OPCUG



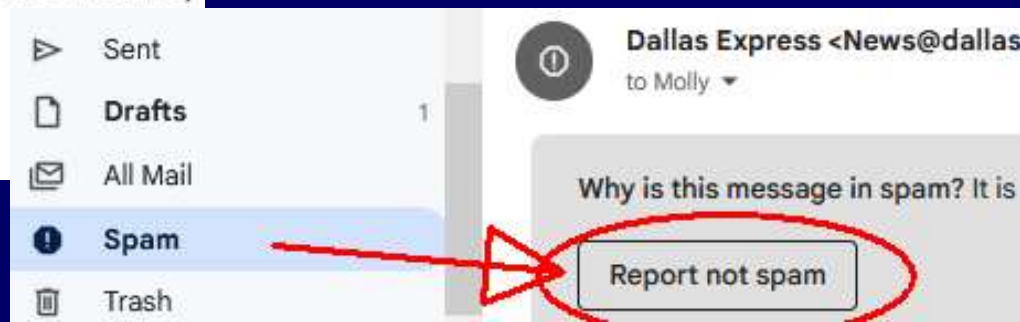
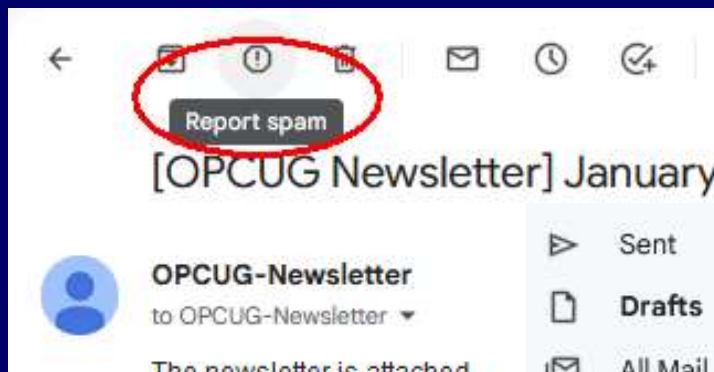
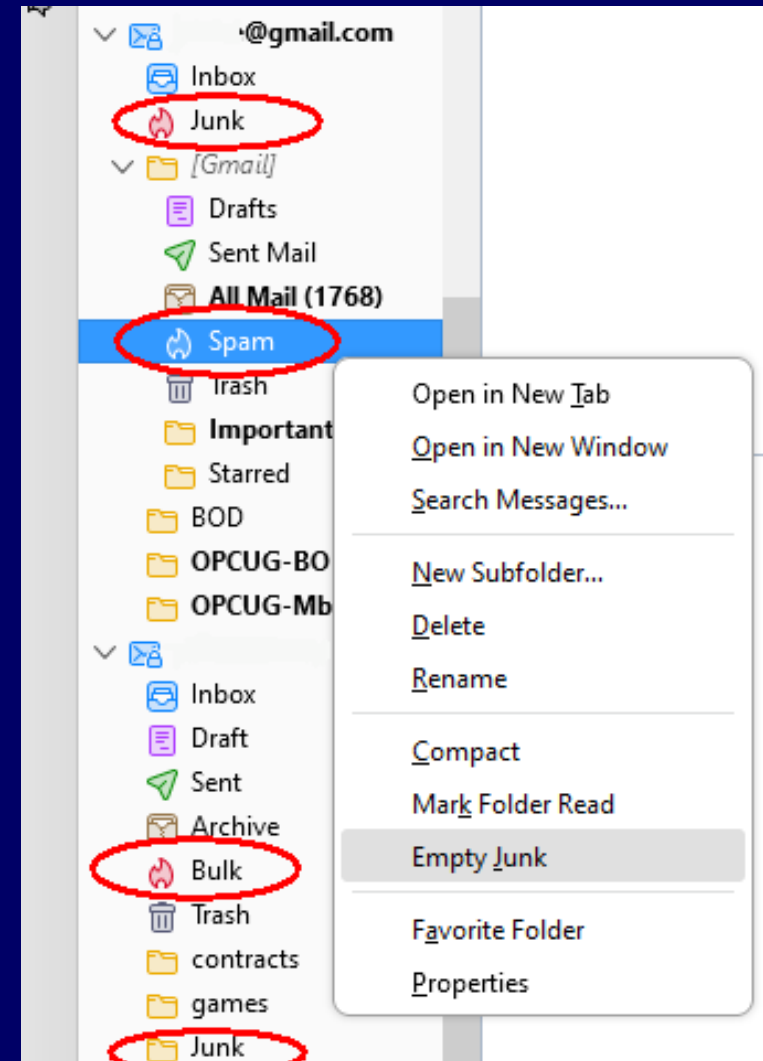
Users helping users

Online email

Online email services also filter spam, but they move them into another folder, in the case of gmail it's called "Spam" and in the case of Rogers (Yahoo), it's called "Bulk".

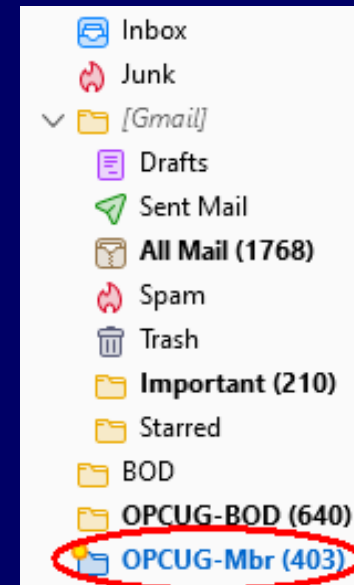
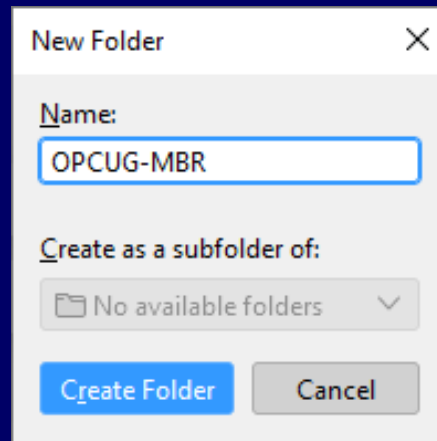
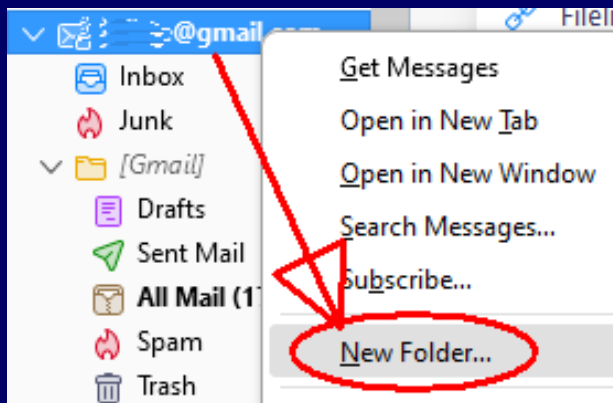
The online services are first to check if an email is a spam, then Thunderbird.

In both cases, you can still use the same tool "Empty Junk", but to mark a message as "Junk" or "Not Junk", you'll need to go online to mark them.

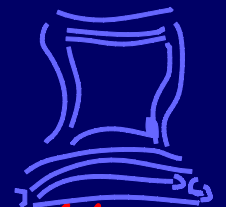


Folders

To help organize your emails, you can create new folders and move your email to them using drag and drop, or using filters.



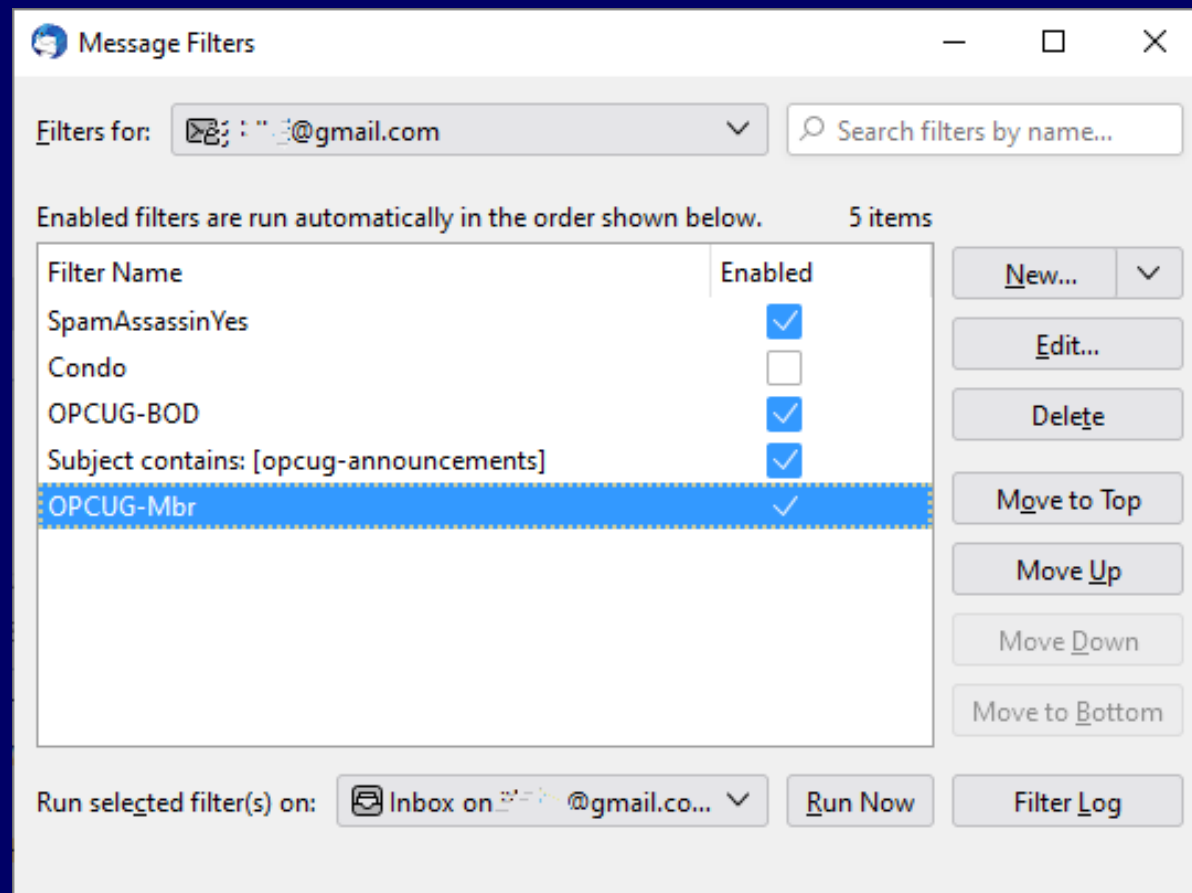
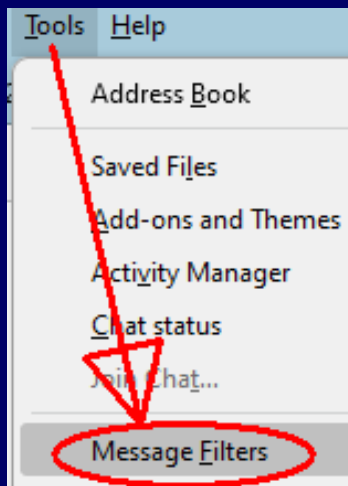
OPCUG



Users helping users

Filters

You can have Thunderbird filter your emails, for example have all your OPCUG Member's forum move to the folder OPCUG-Mbr



OPCUG



Filter Rules

Filter Rules

Filter name:

Apply filter when:

☒ Manually Run

☒ Getting New Mail: Filter before Junk Classification

☐ Archiving

☐ After Sending

☐ Periodically, every 10 minutes

☒ Match all of the following ☐ Match any of the following ☐ Match all messages

Subject contains + -

Perform these actions:

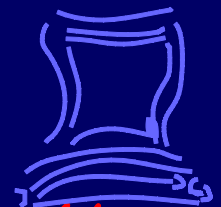
Move Message to OPCUG-Mbr on .@gmail.com + -

OK Cancel

Then edit the filter, for example:

- Match the “Subject”
- that “contain”
- “[OPCUG-Member-Forum]”
- Perform “Move Message to”
- OPCUG-Mbr
- on “gmail.com”

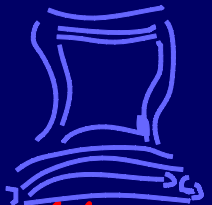
OPCUG



Users helping users

Questions?

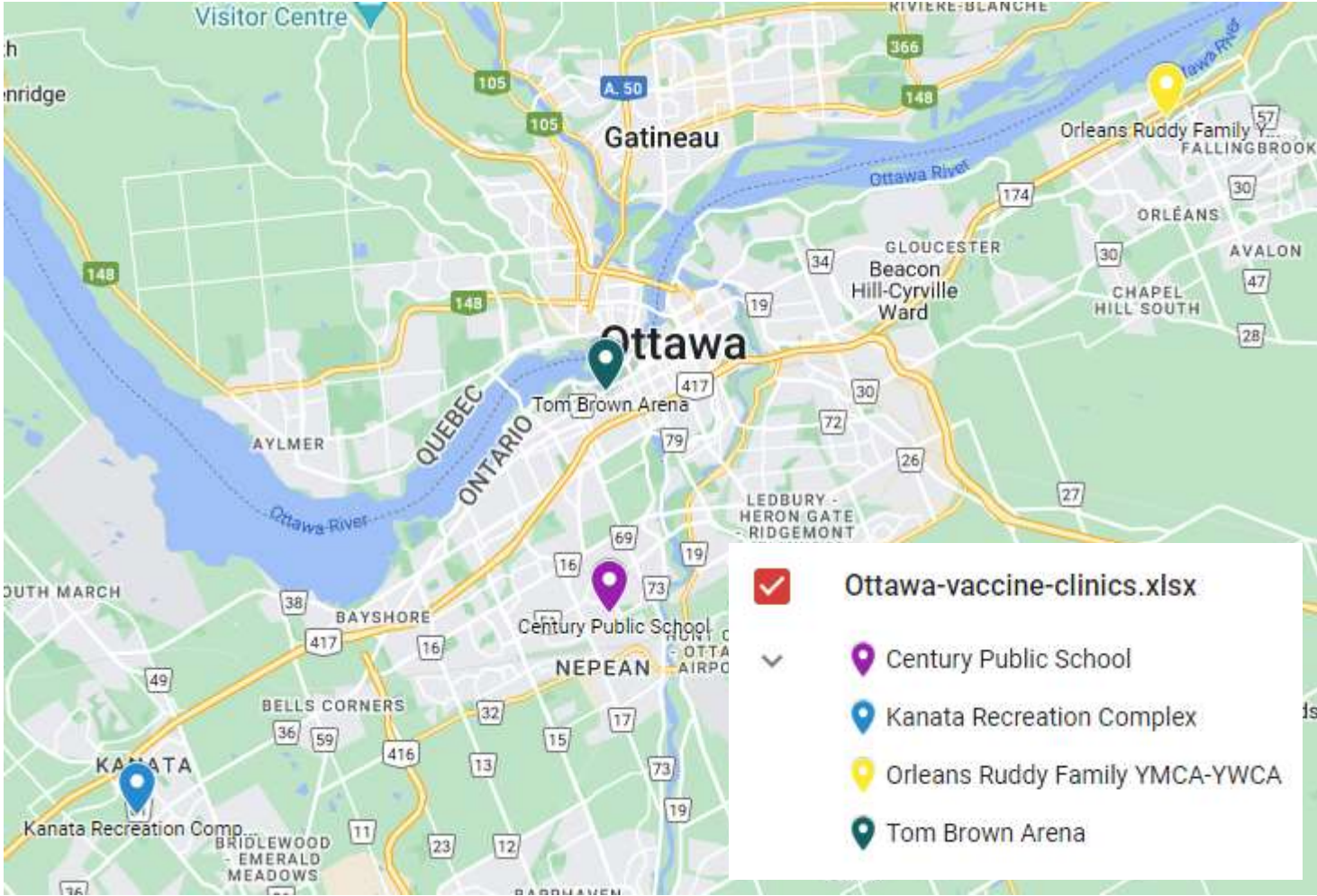
OPCUG



Users helping users

Share

Making a custom Google map



Tom Trottier

Share

Make a google map

- Useful to map addresses of facilities, friends,
- Import spreadsheets or Comma-Separated-Values files
- Private or public via a URL
- Show places, routes, areas with notes
- Add photos, videos
- Embed in your blog/website
- Saved in your Google Drive

<https://www.google.com/maps/about/mymaps/>

https://www.youtube.com/results?search_query=make+OR+create+google+map

Make a google map – demonstration:

- Download a public CSV dataset from Ottawa's OpenData <https://open.ottawa.ca/>
- Massage in Excel
 - Delete extra data
 - Insert general location data – city, province, country if necessary
 - Any other updates
- Create map in Google Drive webpage <https://drive.google.com/drive/my-drive>
 - New, More, Google My Maps
- Customize map

Demo

- Other examples

Follow-up

Windows 8.1 end-of-life

Windows 8.1

Windows 8.1 follows the [Fixed Lifecycle Policy](#).

This applies to the following editions: Enterprise, Enterprise N, N, Pro with Media Center, Professional, Professional N, SL

① Important

As a reminder, Windows 8.1 will reach the end of support on January 10, 2023. After this date, this product will no longer receive security updates, non-security updates, bug fixes, technical support, or online technical content updates. If devices do not meet the technical requirements to run a more current release of Windows, Microsoft recommends replacing the device with one that supports Windows 11. Please go [here](#) for detailed information.

Support dates are shown in the Pacific Time Zone (PT) - Redmond, WA, USA.

Support Dates

Listing	Start Date	Mainstream End Date	Extended End Date
Windows 8.1	Nov 13, 2013	Jan 9, 2018	Jan 10, 2023

Less than a week until end-of-life for Windows 8.1

<https://learn.microsoft.com/en-us/lifecycle/products/windows-81>

Follow-up

Windows 10 & 11 end-of-life

Support Dates

End-of-life in 1014 days

- 2 years, 9 months, 1 week, 3 days

Listing	Start Date	Retirement Date
Windows 10 Home and Pro	Jul 29, 2015	Oct 14, 2025

Support Dates

Listing	Start Date	Retirement Date
Windows 11 Home and Pro	Oct 4, 2021	In Support

Releases

Feature updates supported for 2 years

Version	Start Date	End Date
Version 22H2	Sep 20, 2022	Oct 8, 2024
Version 21H2	Oct 4, 2021	Oct 10, 2023

<https://learn.microsoft.com/en-us/lifecycle/products/windows-10-home-and-pro>
<https://learn.microsoft.com/en-us/lifecycle/products/windows-11-home-and-pro>



**Any other:
Questions
Comments
Shares?**



Close to the Edge?



- I close the browser and then restart it whenever I am about to login to a secure site for online banking, shopping etc.
- I understand that this is a good safety precaution to prevent a malicious website from stealing login passwords etc.
- Do you recommend enabling *Edge Startup Boost*? The Edge browser launches in the background during sign-in and continues to run after all browser windows have been closed.
- Is this method as safe as the method described in the first paragraph where the browser is completely shut down?

Two Good to Miss!

- Join OPCUG before March 31st
- Pay the annual membership fee of \$20.00
- Receive a free-year's membership

**Two years for
the price of one!**

<https://opcug.ca/join-or-renew/>



Already an OPCUG Member?



Don't renew your membership !

Your membership
expiry date will be
extended by another
year at no cost

January Meeting



How to Buy a PC

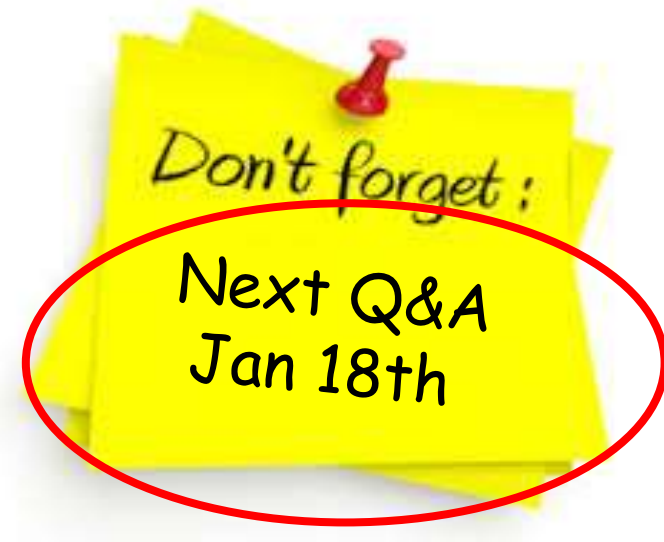
Alan German and Chris Taylor
Ottawa PC Users' Group

January 11, 2023
7:30 pm





No Q&A on
January 11
(Monthly Meeting)



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

SuggestionBox@opcug.ca