



Alan German & Chris Taylor

Ottawa PC Users' Group

June 1, 2022

Follow-up

Secret Backup Power?



Follow-up

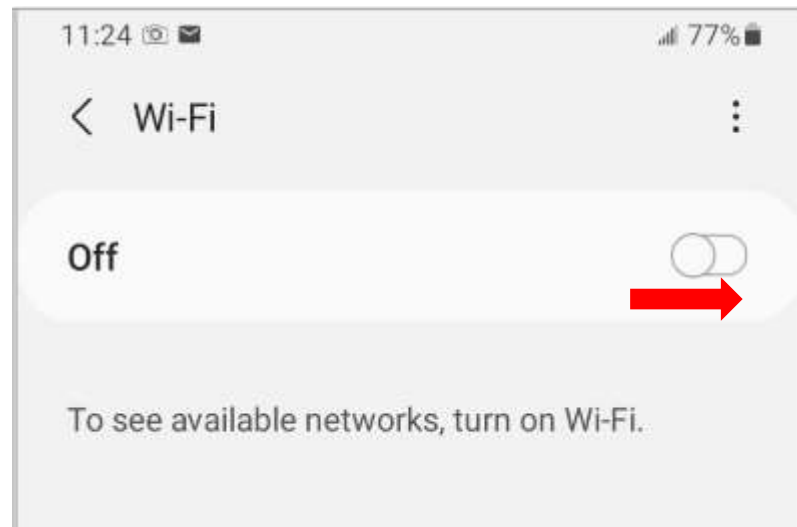
Secret Backup Power?





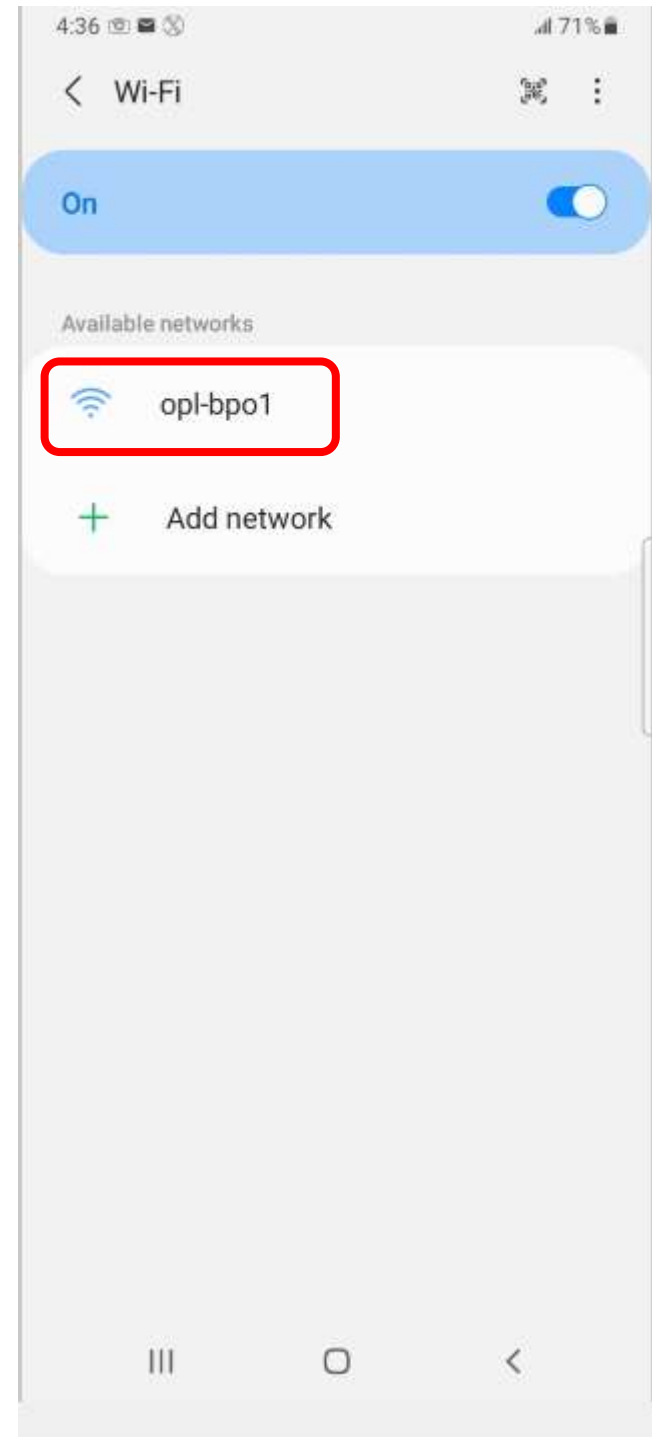
Connecting to Wi-Fi

**Settings -
Connections -
Wi-Fi -
Toggle On**

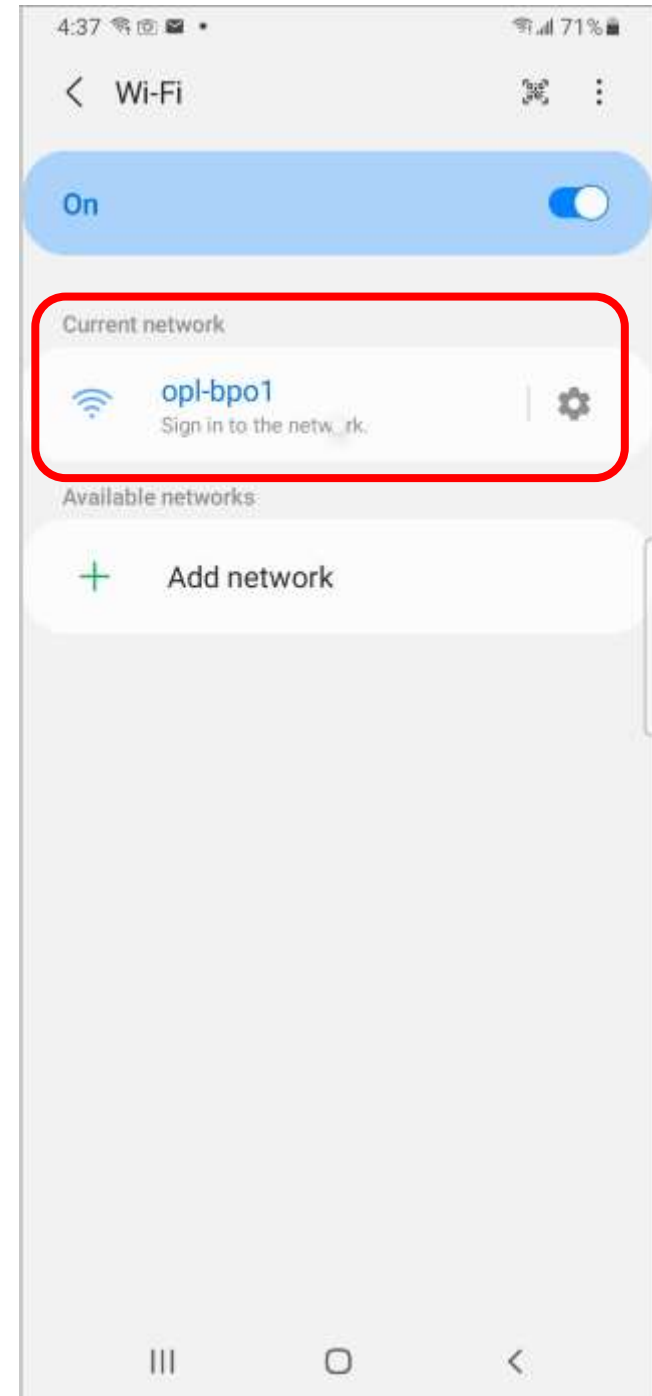


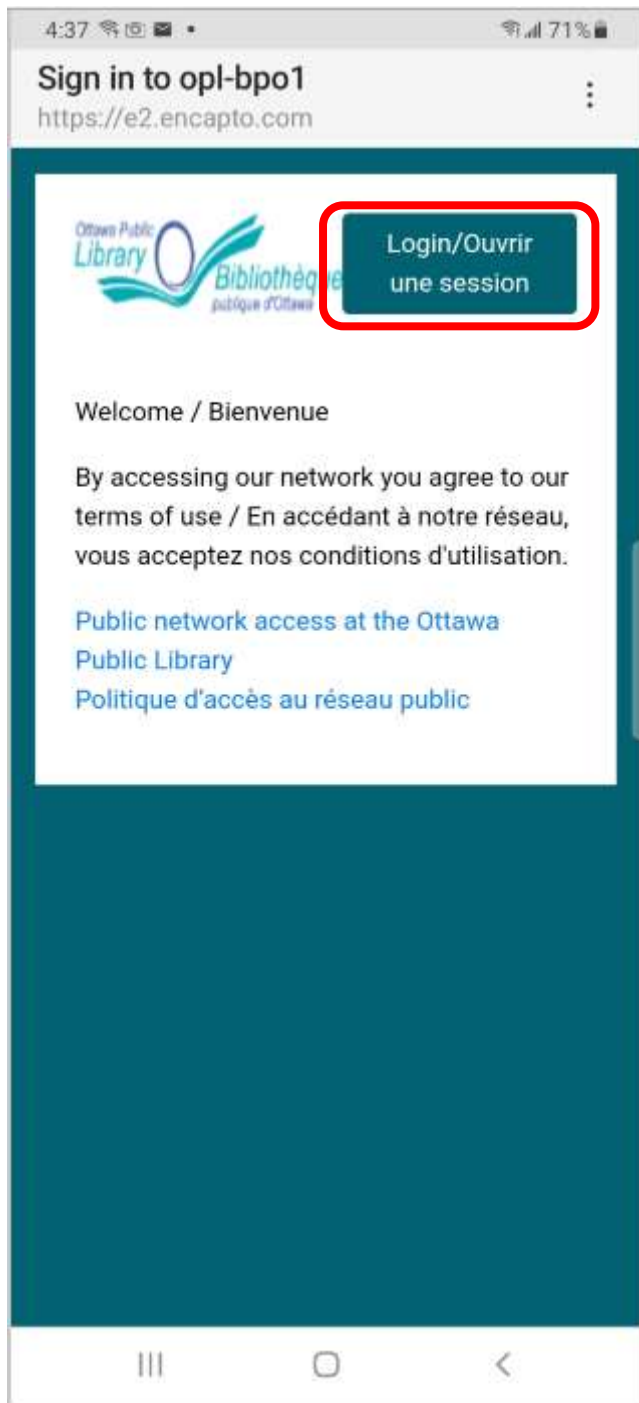
In the big, wide world:

- Available networks will be displayed (Phone only sees OPL)
- Click on opl-bpo1 to connect



- For many public Internet services it will be necessary to login to the system
- Click on opl-bpo1 to sign in to the network





4:37 71%

Sign in to opl-bpo1
https://e2.encapto.com

Login/Ouvrir une session

Enter your Library credentials

Card number / Numéro de carte *

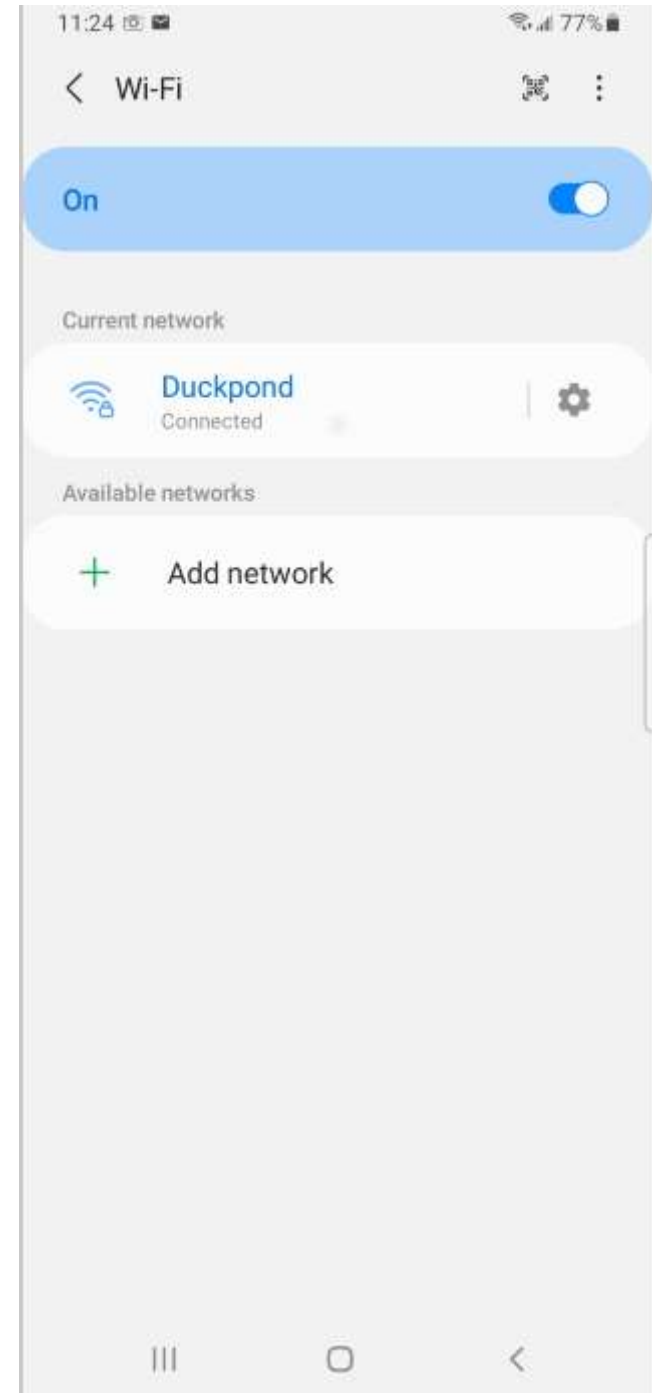
PIN / NIP *

Login

Logging in requires
your library card
number and PIN

At Home:

- Find your router
- Multiple networks may be available (set a recognizable SSID)
- Network will initially request a password
- Toggle *Auto reconnect* to On





Banking by phone

- Can I use my phone to make bank transactions?
- I thought it might not be secure, so I use my laptop

Liette Laniel



A That depends...

...as with most security-related things

- Almost always risk that can't be completely eliminated
- Let's look at some risks

A Risk: keystroke logger on your device

- Attacker sees all your keystrokes
 - including bank logon credentials
- *Risk is the same regardless of platform*
 - desktop, laptop on WiFi, phone on WiFi, phone on mobile
- If you are worried about this, you have a more fundamental thing to work on
 - antivirus software is the most common means of dealing with keystroke loggers

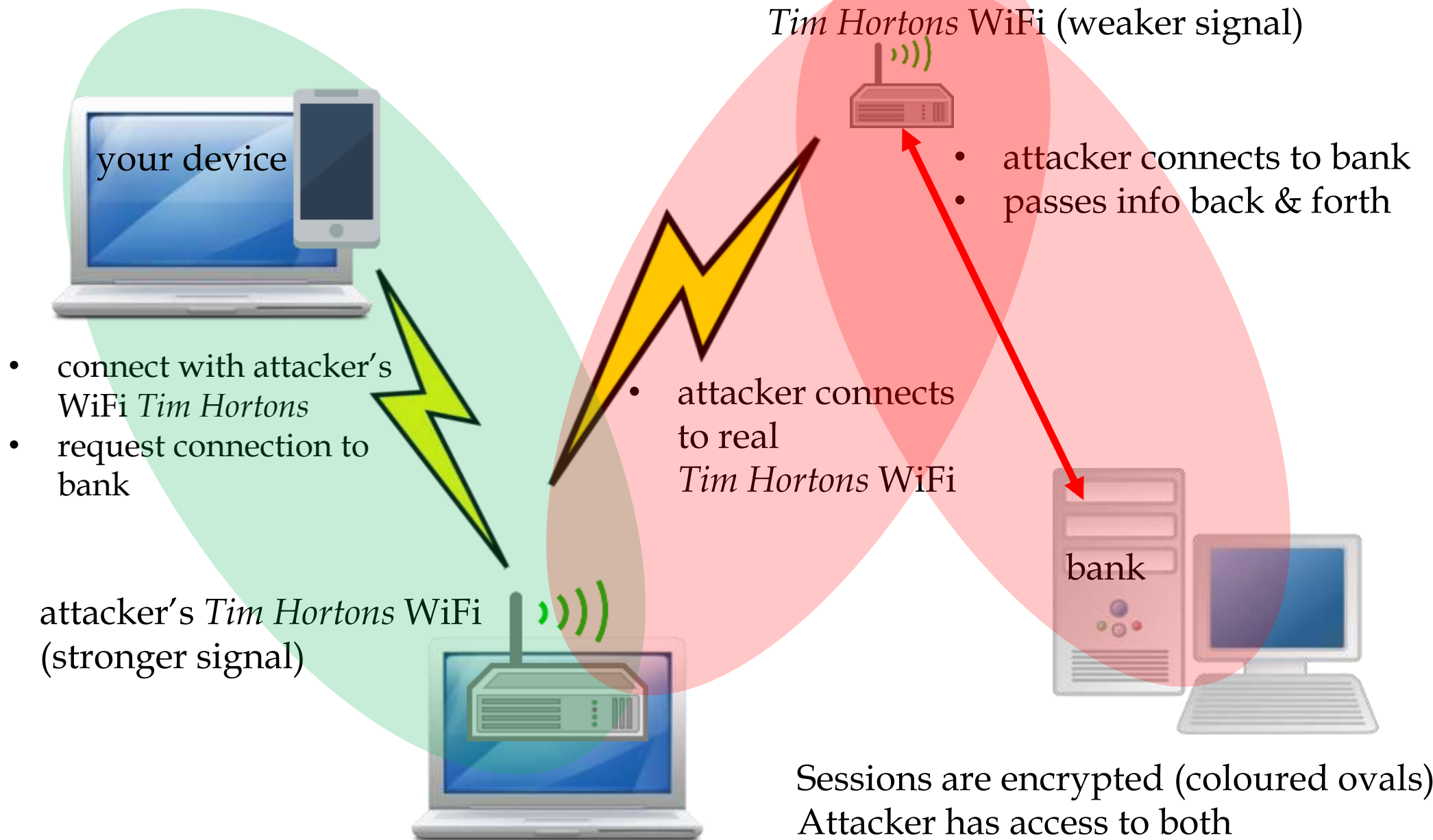




Risk: network traffic intercepted

- Attacker can see everything you type
 - including logon details
- Mitigation: encryption
 - for banking, encryption **will** be there regardless of platform
- Not something that concerns me, except...

A Man-in-the-middle attack



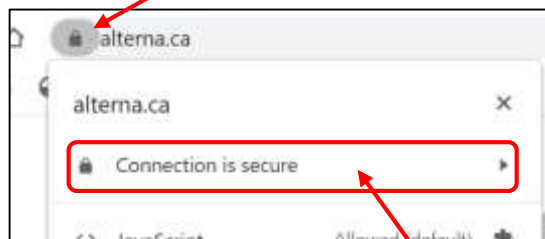
A Man-in-the-middle attack

- Mitigations
 - multi-factor authentication
 - harder for attackers
 - but I am not sure just how much harder...
 - check security certificate when logging on
 - hard for attacker to pretend to have your bank's cert
 - use your bank's mobile app
 - much harder for attacker to perform man-in-the-middle attack
 - if using web access to bank, avoid WiFi
 - harder for attacker to perform man-in-the-middle attack over mobile network
- Reality check: is man-in-the-middle a significant risk?
 - probably not

A Bottom line

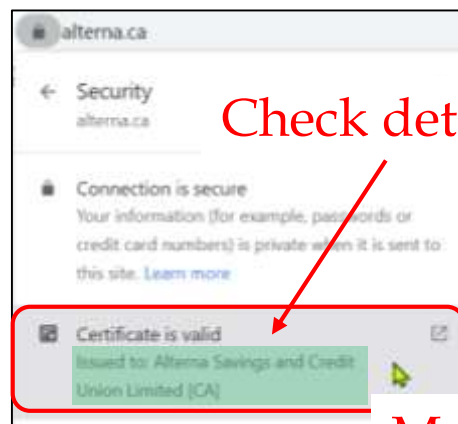
- Keep your devices free of malware/keystroke loggers
 - only install apps from the Google Play Store
- On smartphone
 - probably most secure on mobile network or personal WiFi
 - probably safest to use bank's mobile app
 - probably fine to use web access (slightly higher risk possibly)
- On laptop on someone else's network
 - good practice to check security certificate

Click lock next to URL

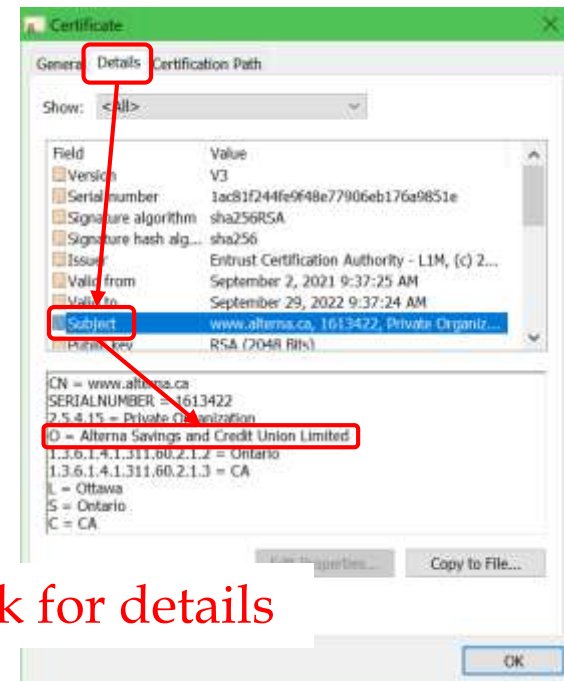


Click *Connection is secure*

Check details



May need to click for details



A Securing computers

- Antivirus/antispyware
 - many people forego this on smartphones
 - as long as you only install apps from the Google Play Store
 - free options such as Sophos Intercept X available
- Firewalls
 - since smartphones generally do not run services, there is no/limited benefit to having a firewall
 - as long as you only install apps from the Google Play Store
- Patch management
 - smartphones make it easy to stay up-to-date on patches
 - as long as you only install apps from the Google Play Store
- Strong unique passwords for every service
- Multi-factor authentication
- Be suspicious
- Router security
 - does not apply to smartphones



Desktop Shortcuts

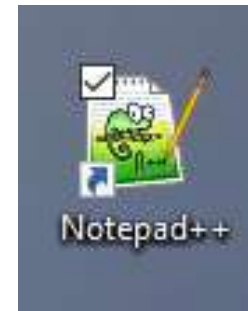
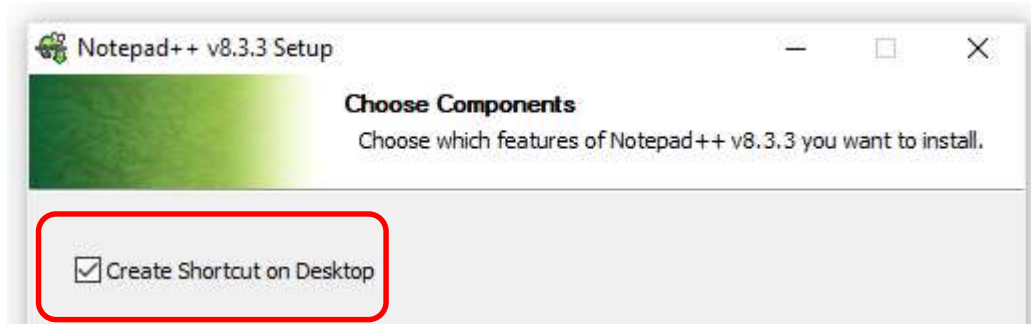
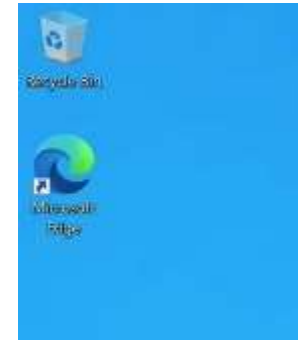
- How do all those icons get to be displayed on the desktop?



- How do I create a link to a specific program?
- What happens if I remove shortcuts?
- Can I create custom shortcuts?

Automatic installation

- Windows 10 will add shortcuts for the Recycle Bin and Microsoft Edge when the OS is installed
- Most programs will add a desktop shortcut during the installation process
- Polite programs will ask if you want a desktop shortcut!



Add a Shortcut

- In Windows, programs will usually be stored in either *Program Files* or *Program Files (x86)*
- Locate the folder for the program for which you wish to make a shortcut
- Find the executable file (usually xxx.exe)
- Right-click on the file name
- Select either:
 - (1) *Send to – Desktop (create shortcut)*
 - (2) *Create shortcut*

Add a Shortcut (2)

- Another method is to press Win-R ( - R) or type Run in the search box *
- Type: *shell:appsfolder*
- The next window shows all the installed programs
- Drag any icon to the desktop



* *Why use this method? - Do you know where to find the executable file for Microsoft Word?*

Windows 10 (C:)

File Home Share View Manage Drive Tools

Pin to Quick access Copy Paste Cut Copy path Paste shortcut Move to Copy to Delete Rename New folder Easy access Properties Edit History Select all Select none Invert selection

Clipboard Organize New Open Select

← → ▾ ↑ This PC > Windows 10 (C:) Search Windows 10 (C:)

Windows 10 (C:)

- AMD
- Apps
- ATIP
- boot
- building
- clipper
- CursorHighlighter
- Drivers
- eBooks
- EDR_Files
- ESD
- Garmin
- Ghana_Morocco_Gold
- Ghana_Morocco_photos
- Intel
- Moto
- PerfLogs
- Program Files
- Program Files (x86)

Name	Date modified	Type	Size
building	2020-08-17 0:23 PM	File folder	
clipper	2017-03-21 4:26 PM	File folder	
CursorHighlighter	2021-02-15 3:00 PM	File folder	
Drivers	2015-04-10 8:50 PM	File folder	
eBooks	2022-01-30 9:06 AM	File folder	
EDR_Files	2016-07-08 6:28 PM	File folder	
ESD	2021-11-15 4:53 PM	File folder	
Garmin	2021-12-12 8:51 AM	File folder	
Ghana_Morocco_Gold	2022-02-26 6:01 PM	File folder	
Ghana_Morocco_photos	2022-02-22 7:45 PM	File folder	
Intel	2017-11-27 2:49 PM	File folder	
Moto	2020-04-14 11:16 ...	File folder	
PerfLogs	2019-12-07 4:14 AM	File folder	
Program Files	2022-03-11 8:55 AM	File folder	
Program Files (x86)	2022-03-23 9:09 PM	File folder	
Scotland_photos	2022-02-23 1:47 PM	File folder	
Search	2017-03-01 5:04 PM	File folder	
Temp	2022-04-02 8:59 AM	File folder	
Users	2020-08-16 11:06 ...	File folder	
Windows	2022-03-09 10:47 ...	File folder	
rescuepe.log	2021-08-21 1:56 AM	Text Document	1 KB
vci-installation.log	2021-01-30 8:24 AM	Text Document	20 KB

26 items

File Explorer window titled "Duplicate Cleaner Free". The address bar shows the path: This PC > Windows 10 (C:) > Program Files (x86) > Duplicate Cleaner Free. The left sidebar shows the "Program Files (x86)" folder expanded, listing various subfolders like Adobe, Allaire, Amazon, AMD, Ashampoo, ATI Technologies, and Audacity.

The main pane displays a list of files and folders in the "Duplicate Cleaner Free" directory. The files are sorted by Name. The file "Duplicate Cleaner Free" (Internet Shortcut, 1 KB) is selected. A context menu is open over the selected file, showing options like Open, Print, PeaZip, File Shredder, PowerRename, Restore previous versions, Send to, Cut, Copy, Create shortcut, Delete, Rename, and Properties. The "Send to" option is highlighted, and a sub-menu is open showing destinations: Bluetooth device, Compressed (zipped) folder, Desktop (create shortcut), Documents, Fax recipient, Mail recipient, PDFsam Basic, and TeamViewer. The "Desktop (create shortcut)" option is highlighted in the sub-menu.

Name	Date modified	Type	Size
x64	2022-02-26 5:17 PM	File folder	
x86	2022-02-26 5:17 PM	File folder	
AcoustID.dll	2016-11-24 11:43 AM	Application exten...	60 KB
database.ini	2015-09-21 8:52 AM	Configuration sett...	1 KB
dc_help.chm	2018-10-15 6:20 AM	Compiled HTML ...	3,073 KB
DC_Util.exe	2019-05-22 8:10 AM	Application	65 KB
DC-EULA-FREE.txt	2014-05-09 9:22 AM	TXT File	3 KB
Duplicate Cleaner Free	2022-02-26 5:17 PM	Internet Shortcut	1 KB
duplicateCleaner.exe	2019-05-22 8:09 AM	Application	1,563 KB
elimageNET.dll	2016-08-04 6:52 AM	Application exten...	186 KB
g_ar.ini	2018-10-17 9:20 AM	Configuration sett...	14 KB
g_bg.ini	2018-10-17 9:20 AM	Configuration sett...	18 KB
g_chs.ini	2018-10-17 9:20 AM	Configuration sett...	16 KB
g_de.ini	2018-10-17 9:17 AM	Configuration sett...	17 KB
Bluetooth device	2018-10-17 9:17 AM	Configuration sett...	15 KB
Compressed (zipped) folder	2018-10-17 9:29 AM	Configuration sett...	18 KB
Desktop (create shortcut)	2018-10-17 9:18 AM	Configuration sett...	15 KB
Documents	2018-10-17 9:24 AM	Configuration sett...	18 KB
Fax recipient	2018-10-17 9:17 AM	Configuration sett...	17 KB
Mail recipient	2018-10-17 9:18 AM	Configuration sett...	26 KB
PDFsam Basic	2018-10-17 9:18 AM	Configuration sett...	19 KB
TeamViewer			

File Explorer window titled "Duplicate Cleaner Free". The address bar shows the path: This PC > Windows 10 (C:) > Program Files (x86) > Duplicate Cleaner Free.

The ribbon includes tabs: File, Home, Share, View. The File tab is active, showing options like Pin to Quick access, Copy, Paste, Cut, Copy path, Paste shortcut, Move to, Copy to, Delete, Rename, New folder, Easy access, Properties, Open, Select all, Select none, and Invert selection.

The main pane displays a list of files and folders in the "Duplicate Cleaner Free" directory. The "Duplicate Cleaner Free" file is selected, and a context menu is open, highlighting the "Create shortcut" option.

Name	Date modified	Type	Size
x64	2022-02-26 5:17 PM	File folder	
x86	2022-02-26 5:17 PM	File folder	
AcoustID.dll	2016-11-24 11:43 AM	Application exten...	60 KB
database.ini	2015-09-21 8:52 AM	Configuration sett...	1 KB
dc_help.chm	2018-10-15 6:20 AM	Compiled HTML ...	3,073 KB
DC_Util.exe	2019-05-22 8:10 AM	Application	65 KB
DC-EULA-FREE.txt	2014-05-09 9:22 AM	TXT File	3 KB
Duplicate Cleaner Free	2022-02-26 5:17 PM	Internet Shortcut	1 KB
duplicateCleaner.exe	2019-05-22 8:09 AM	Application	1,563 KB
elimageNET.dll	2016-08-04 6:52 AM	Application exten...	186 KB
g_ar.ini	2018-10-17 9:20 AM	Configuration sett...	14 KB
g_bg.ini	2018-10-17 9:20 AM	Configuration sett...	18 KB
g_chs.ini	2018-10-17 9:20 AM	Configuration sett...	16 KB
g_de.ini	2018-10-17 9:17 AM	Configuration sett...	17 KB
g_en.ini	2018-11-12 7:48 AM	Configuration sett...	15 KB
g_es.ini	2018-10-17 9:29 AM	Configuration sett...	18 KB
g_et.ini	2018-10-17 9:18 AM	Configuration sett...	15 KB
g_fr.ini	2018-10-17 9:24 AM	Configuration sett...	18 KB
g_hu.ini	2018-10-17 9:17 AM	Configuration sett...	17 KB
g_hy.ini	2018-10-17 9:18 AM	Configuration sett...	26 KB
g_it.ini	2018-10-17 9:18 AM	Configuration sett...	19 KB

File Explorer window titled "Duplicate Cleaner Free" showing the "Program Files (x86)" directory. The ribbon includes "File", "Home", "Share", "View", and "Application Tools". The "Application Tools" ribbon is active, showing options like "Pin to Quick access", "Copy", "Paste", "Cut", "Copy path", "Paste shortcut", "Move to", "Copy to", "Delete", "Rename", "New folder", "New item", "Easy access", "Properties", "Open", "Select all", "Select none", and "Invert selection".

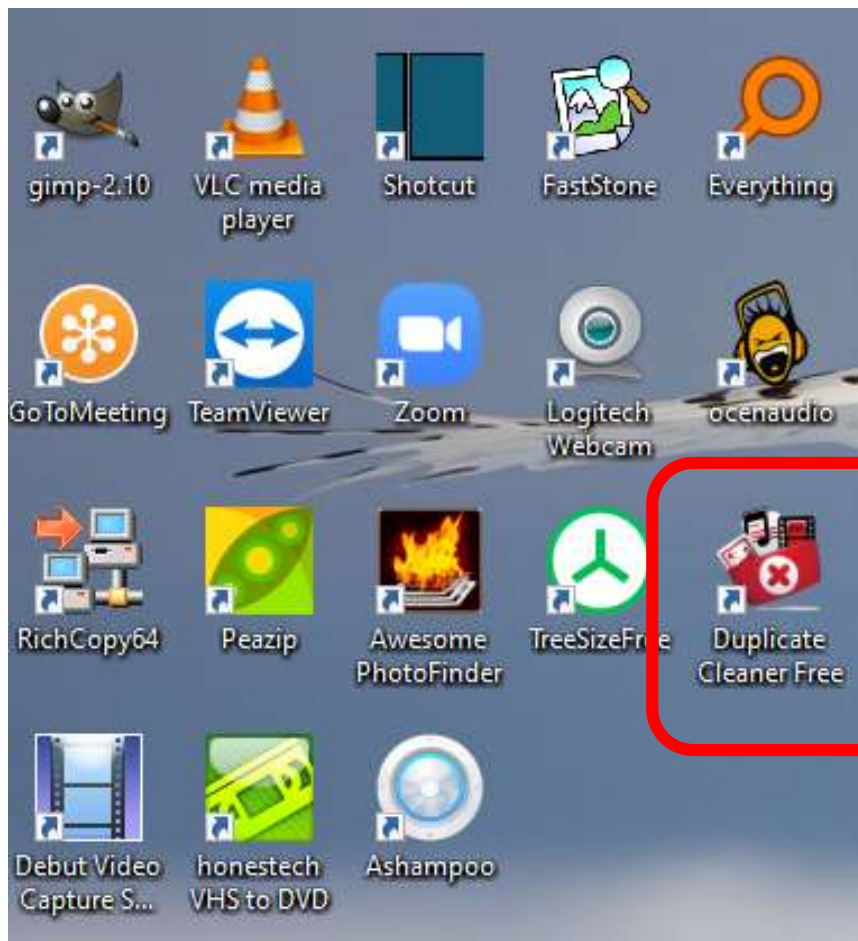
The address bar shows the path: This PC > Windows 10 (C:) > Program Files (x86) > Duplicate Cleaner Free. The search bar contains "Search Duplicate Cleaner Free".

The left sidebar shows the "Program Files (x86)" directory with various folders listed, including "Duplicate Cleaner Free".

The main pane displays a list of files and folders. A dialog box is overlaid on the list, asking: "Windows can't create a shortcut here. Do you want the shortcut to be placed on the desktop instead?". The dialog has "Yes" and "No" buttons.

Name	Date modified	Type	Size
x64	2022-02-26 5:17 PM	Internet Shortcut	1 KB
x86	2022-02-26 5:17 PM	Internet Shortcut	1 KB
Adobe			
Allaire			
Amazon			
AMD			
Ashampoo			
ATI Technologies			
Audacity			
Awesome Duplicate Cleaner			
Bosch			
Common Files			
CSV to vCard			
Dell			
Digiarty			
DOSBox-0.74			
DOSBox-0.74-3			
D-PDU API			
Duplicate Cleaner Free			
FastStone Image Viewer			
FFmpeg for Audacity			
Duplicate Cleaner Free	2022-02-26 5:17 PM	Internet Shortcut	1 KB
DuplicateCleaner.exe	2019-05-22 8:09 AM	Application	1,563 KB
FreemageNET.dll	2016-08-04 6:52 AM	Application extension...	186 KB
lang_ar.ini	2018-10-17 9:20 AM	Configuration sett...	14 KB
lang_bg.ini	2018-10-17 9:20 AM	Configuration sett...	18 KB
lang_chs.ini	2018-10-17 9:20 AM	Configuration sett...	16 KB
lang_de.ini	2018-10-17 9:17 AM	Configuration sett...	17 KB
lang_en.ini	2018-11-12 7:48 AM	Configuration sett...	15 KB
lang_es.ini	2018-10-17 9:29 AM	Configuration sett...	18 KB
lang_et.ini	2018-10-17 9:18 AM	Configuration sett...	15 KB
lang_fr.ini	2018-10-17 9:24 AM	Configuration sett...	18 KB
lang_hu.ini	2018-10-17 9:17 AM	Configuration sett...	17 KB
lang_hy.ini	2018-10-17 9:18 AM	Configuration sett...	26 KB
lang_it.ini	2018-10-17 9:18 AM	Configuration sett...	19 KB

37 items | 1 item selected 1.52 MB



Remove a Shortcut

- Shortcuts are usually stored in the Users folder
e.g. C:\Users\{Username}\Desktop
- This is not where the program is installed!
- Deleting a shortcut to a (executable) file removes the shortcut from the desktop, but **does nothing to the file that the shortcut is pointing to**
- So, deleting a shortcut to *DuplicateCleaner.exe* removes the desktop icon but doesn't uninstall *Duplicate Cleaner Free*

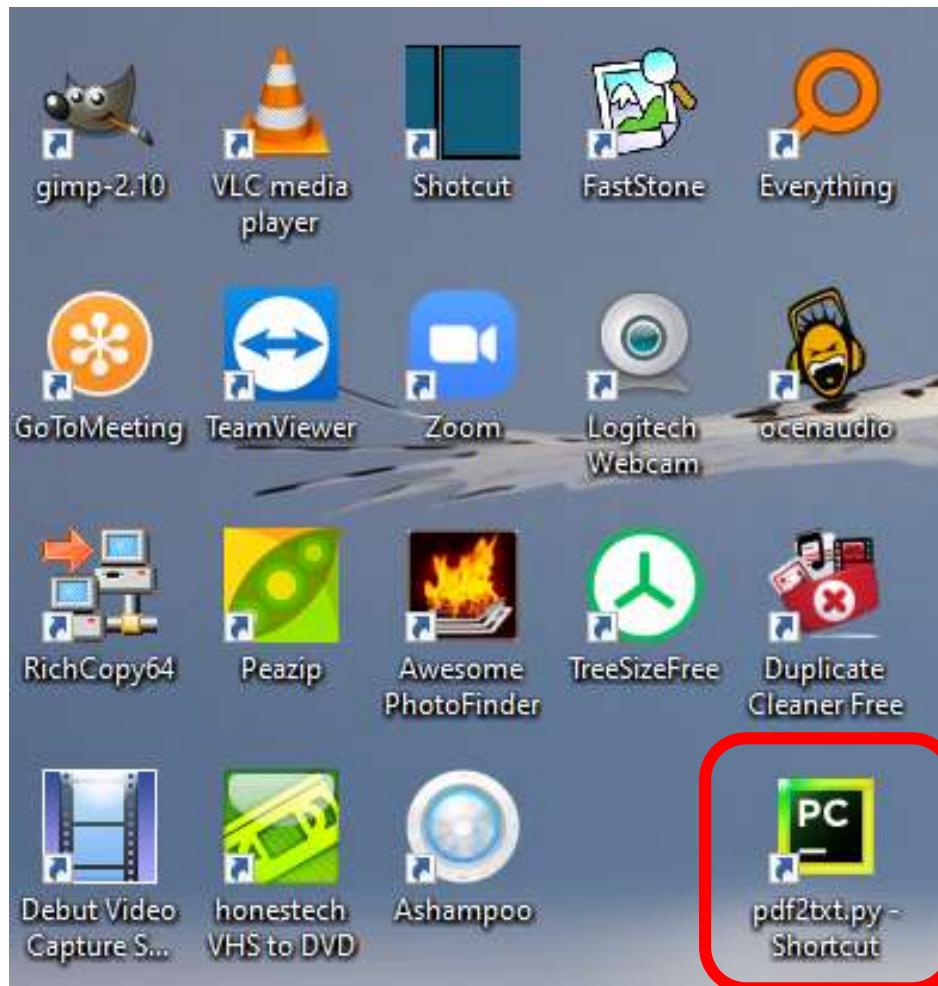
Remove a Shortcut (2)

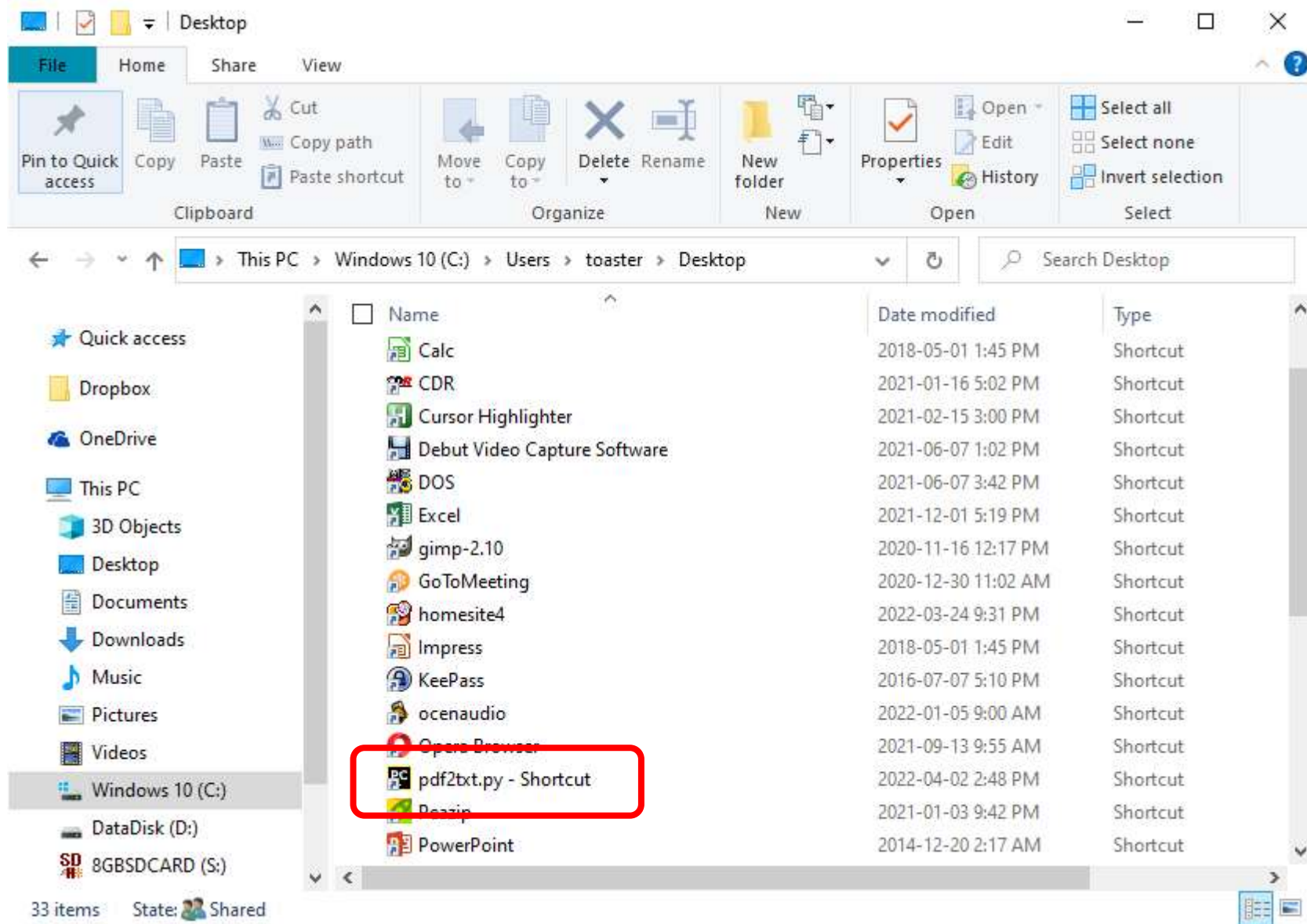
- Shortcuts are usually stored in the Users folder
e.g. C:\Users\{Username}\Desktop
- But, if a program is installed for All Users, the shortcut will be located at: *C:\Users\Public\Desktop*

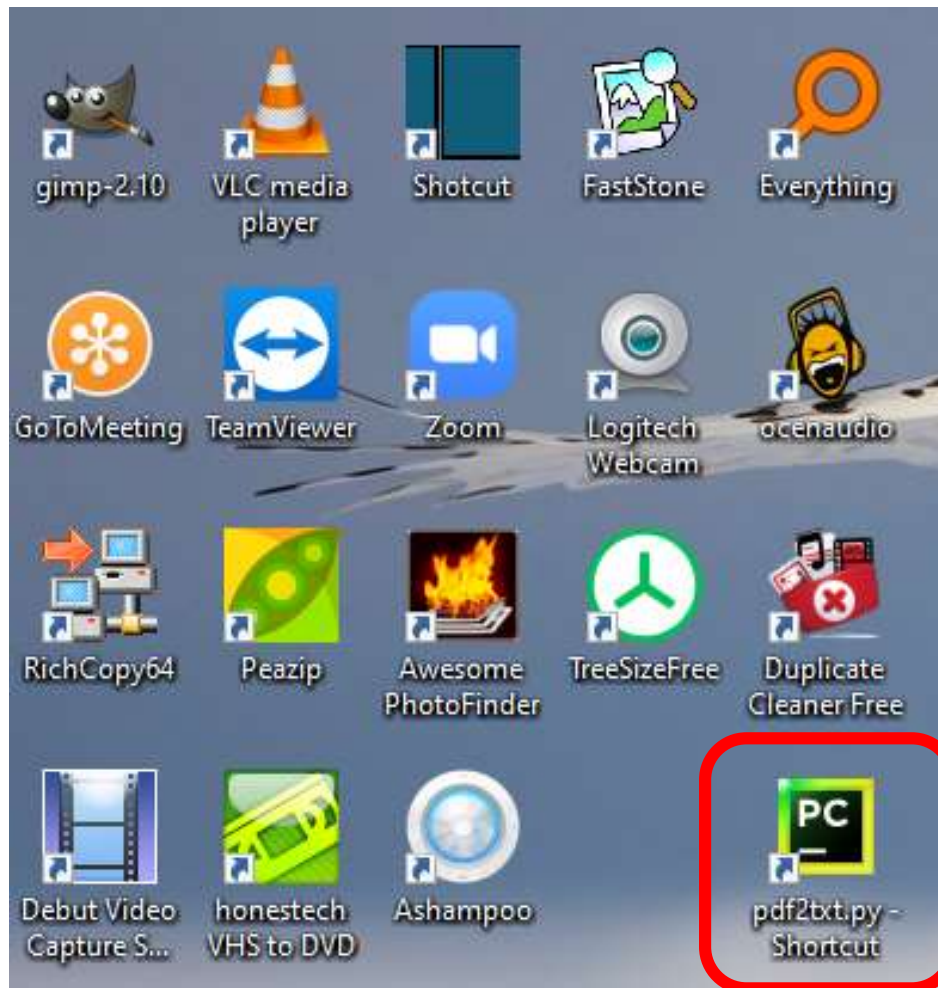
Remove a Shortcut (2)

- Shortcuts are usually stored in the Users folder
e.g. C:\Users\{Username}\Desktop
- But, if a program is installed for All Users, the shortcut will be located at: *C:\Users\Public\Desktop*
- **Caution – A portable app, or even a regular program, may be installed on the desktop. To delete a shortcut and not an actual program, make sure there is a shortcut arrow on the icon!**

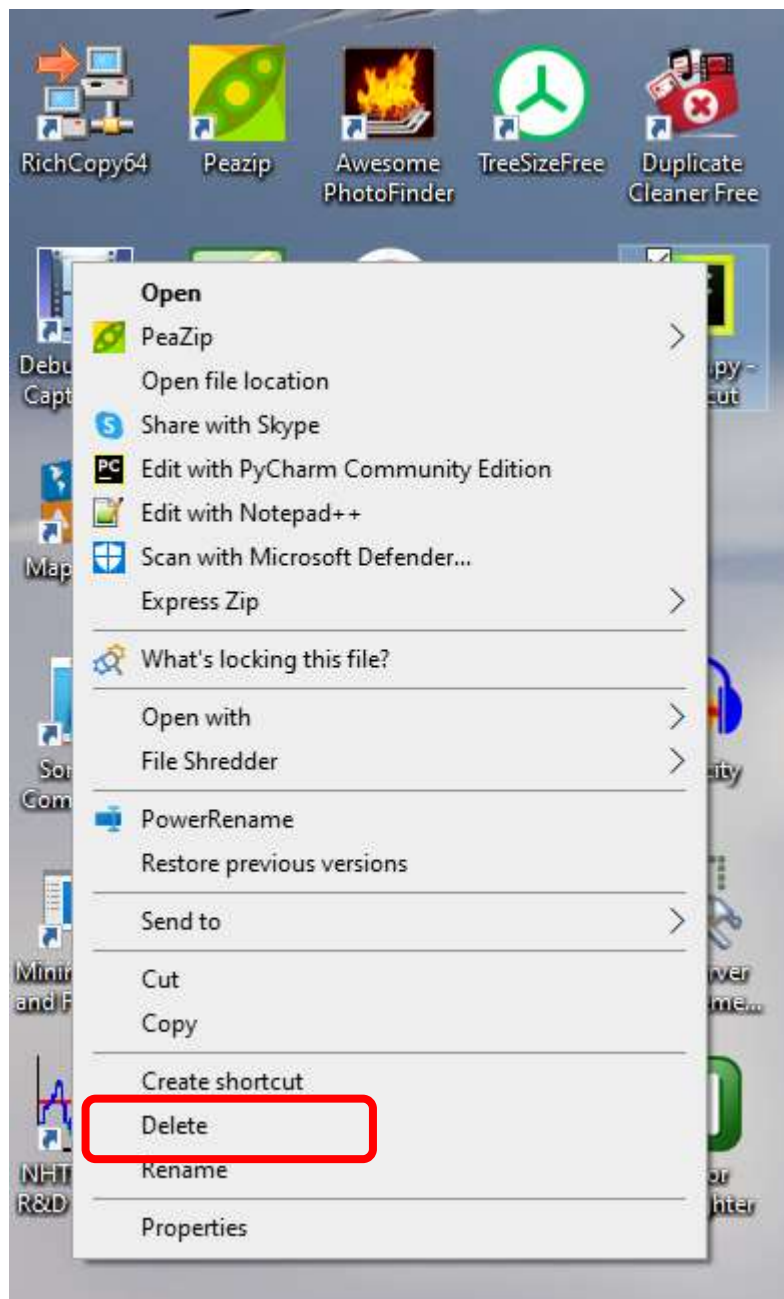


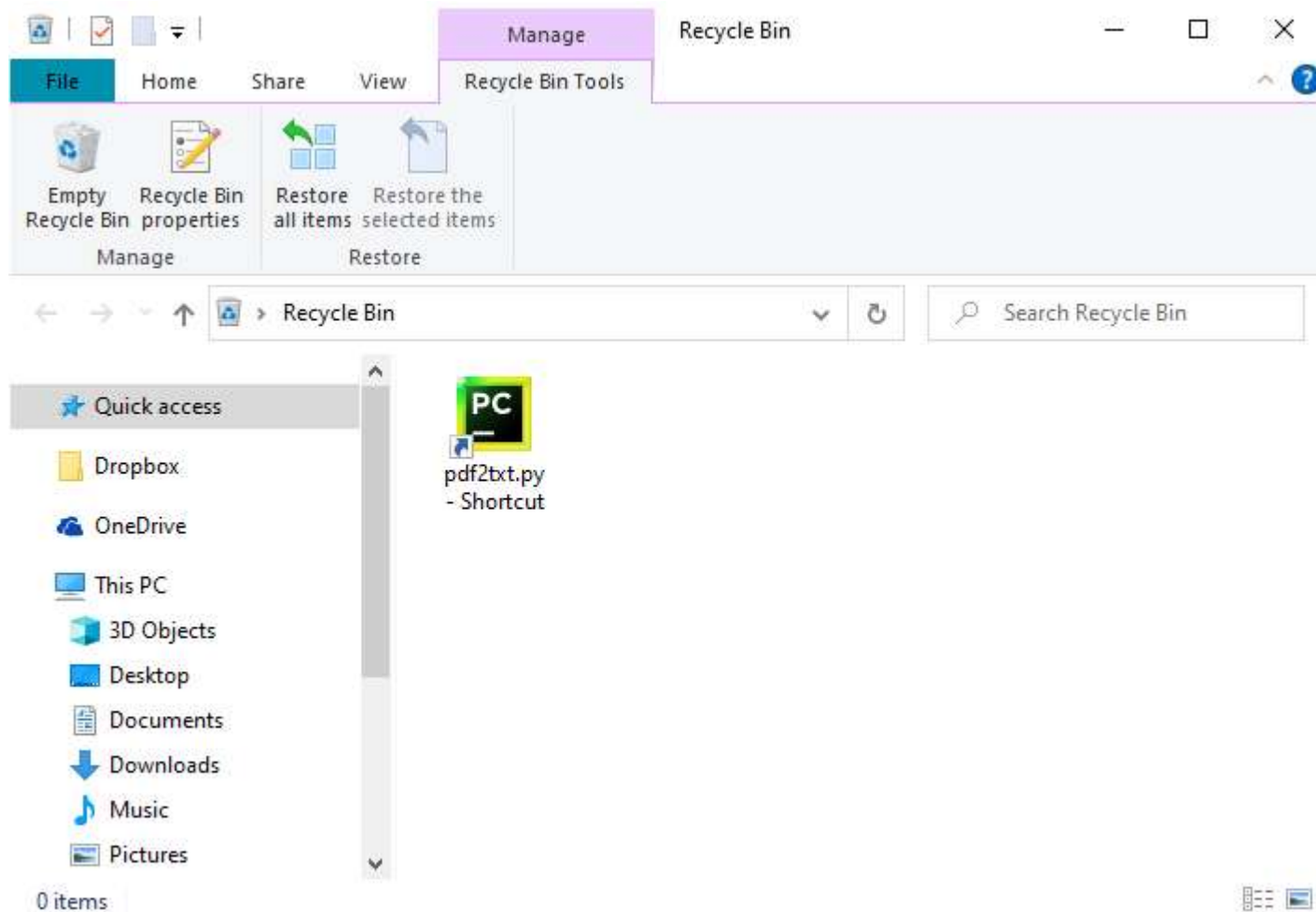


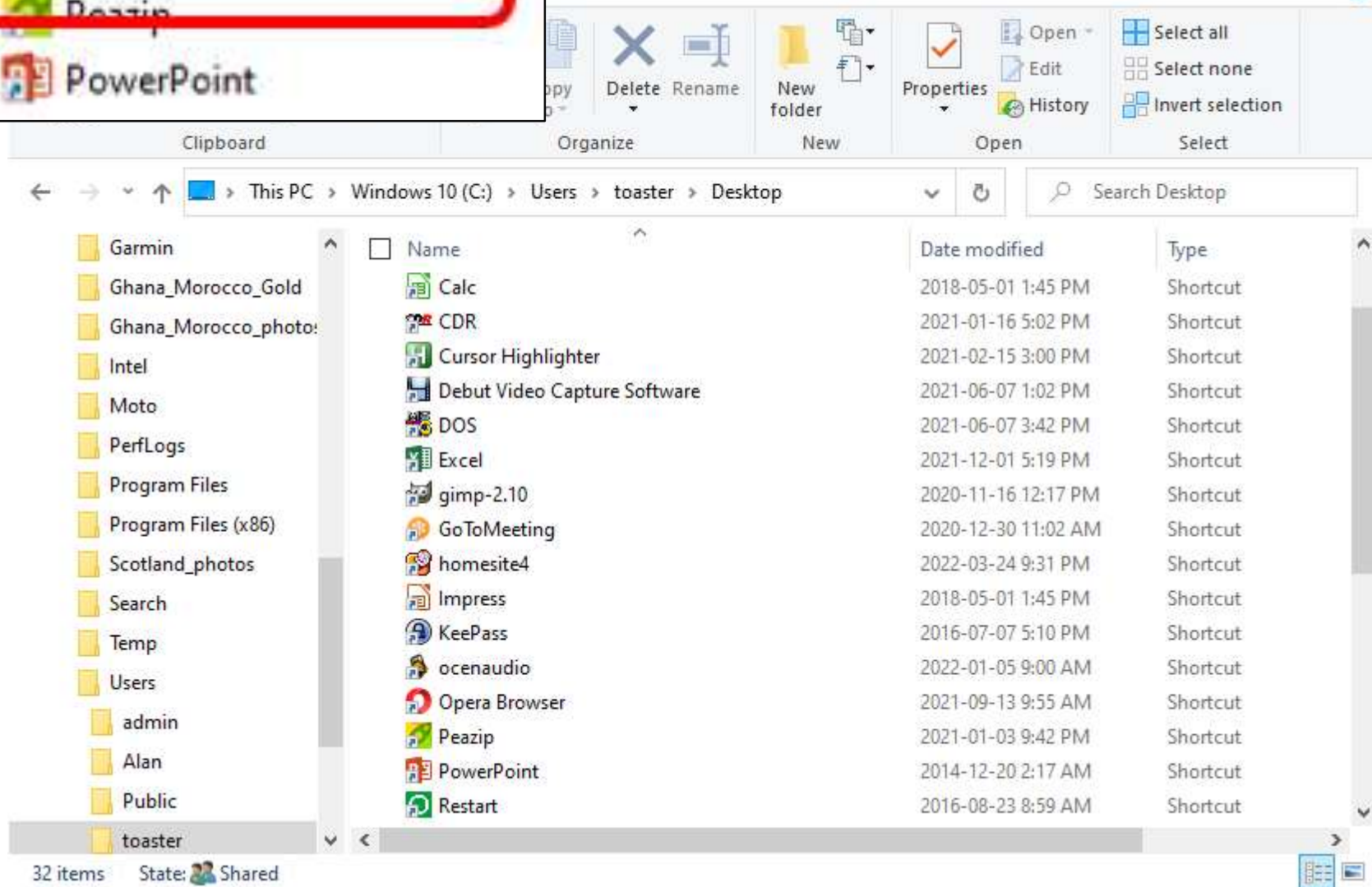
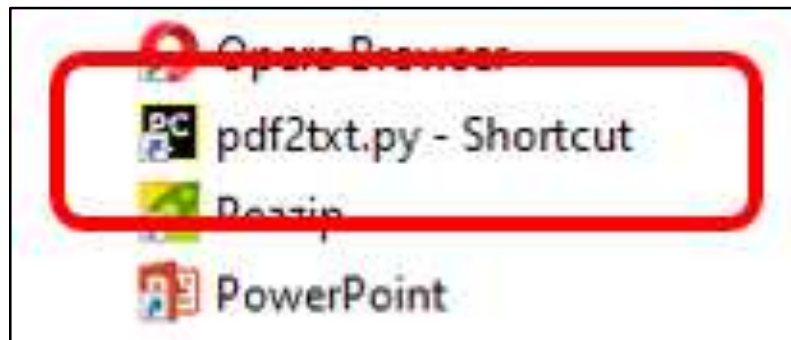




Right-click



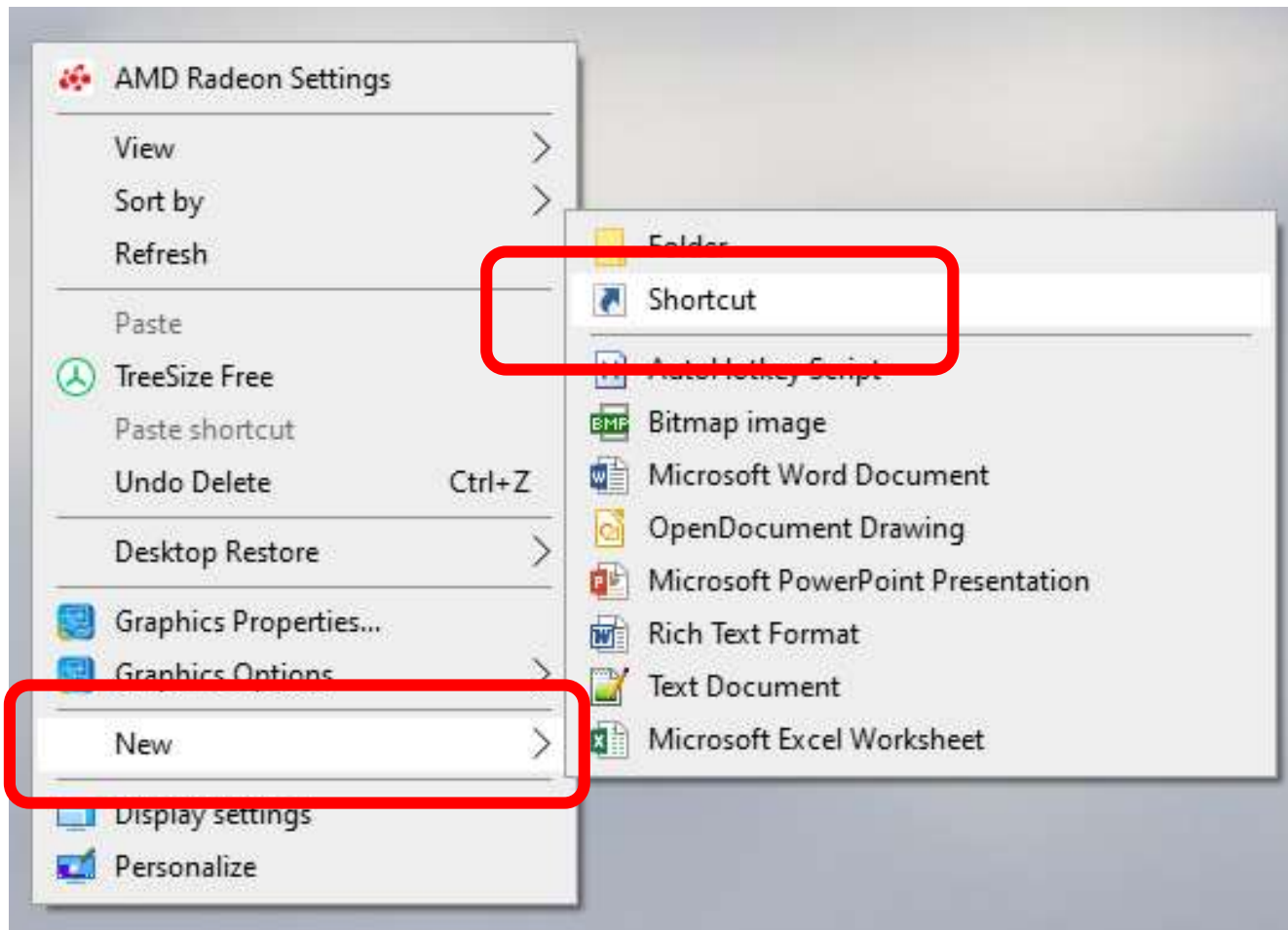




Create a Custom Shortcut

- Right-click on a blank area of the desktop
- Select *New – Shortcut*
- Use the Shortcut Wizard to:
 - browse for the location of the program to be activated *
 - give the shortcut a name

** You can also enter a command string*



 Create Shortcut

What item would you like to create a shortcut for?

This wizard helps you to create shortcuts to local or network programs, files, folders, computers, or Internet addresses.

Type the location of the item:

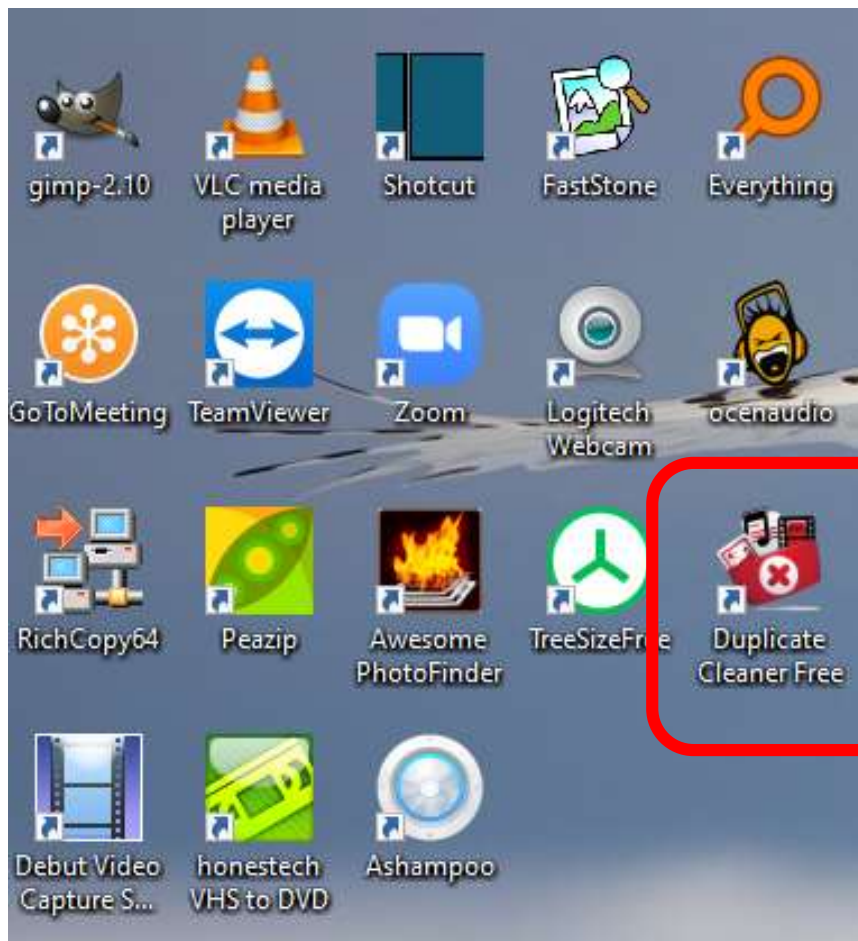
Click Next to continue.

 Create Shortcut

What would you like to name the shortcut?

Type a name for this shortcut:

Click Finish to create the shortcut.



Rapid Shutdown/Restart

- Shut down or restart Windows
- Three clicks:
Start – Power – Shut down/Restart
- Can we do this in two clicks,
or even with a single click?





OTTAWA

PC NEWS

Volume 32, Number 5

May 2015

SPECIAL 'TABLETS AND SMARTPHONES' ISSUE

Power Options in Windows 8.1 by Alan German

I couldn't resist any longer. It wasn't the allure (if there is any) of Windows 8. Rather, it was the idea of a lightweight, ten-inch tablet, with a dockable keyboard, that would provide a highly portable, yet reasonably powerful computing solution. So, after re-

Unfortunately, this patch had no effect on my tablet. Paul notes that: "You won't see it on every system. Microsoft tells me it's tied to an internal setting called the Power Platform Role that PC and device makers must set accurately in order to obtain the Windows logo. If

Eventually, I tracked down shutdown.exe, the program that actually runs the power-off process (<http://www.softwareok.com/?seite=faq-Windows-8&faq=24>). This system software has switches for both shutdown (/s) and restart (/r) so it's a sim-

<https://opcug.ca/Articles/1505.pdf>

Shutdown

```
%windir%\System32 \shutdown.exe /s /t 0
```

Restart

```
%windir%\System32 \shutdown.exe /r /t 0
```



Create Shortcut



What item would you like to create a shortcut for?

This wizard helps you to create shortcuts to local or network programs, files, folders, computers, or Internet addresses.

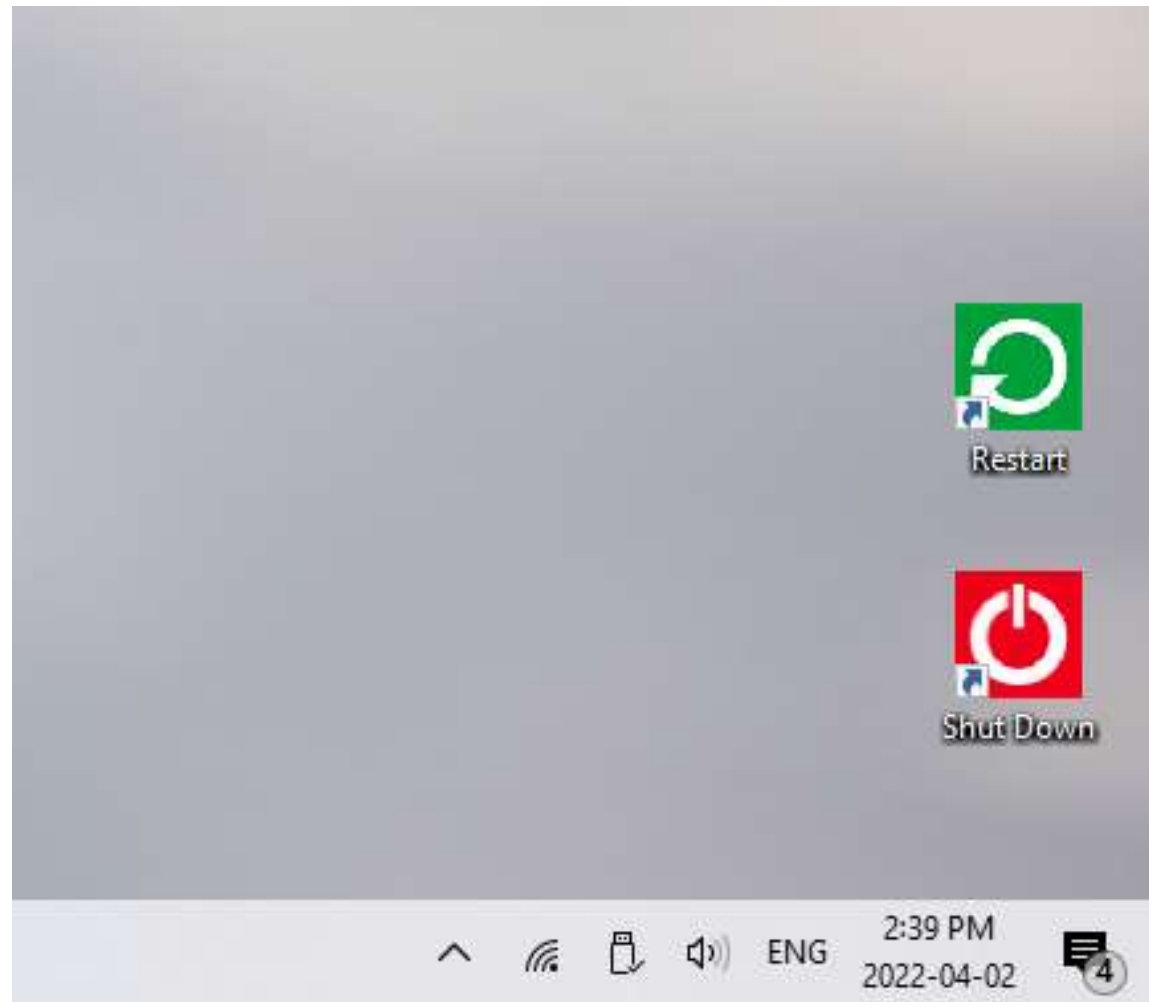
Type the location of the item:

Browse...

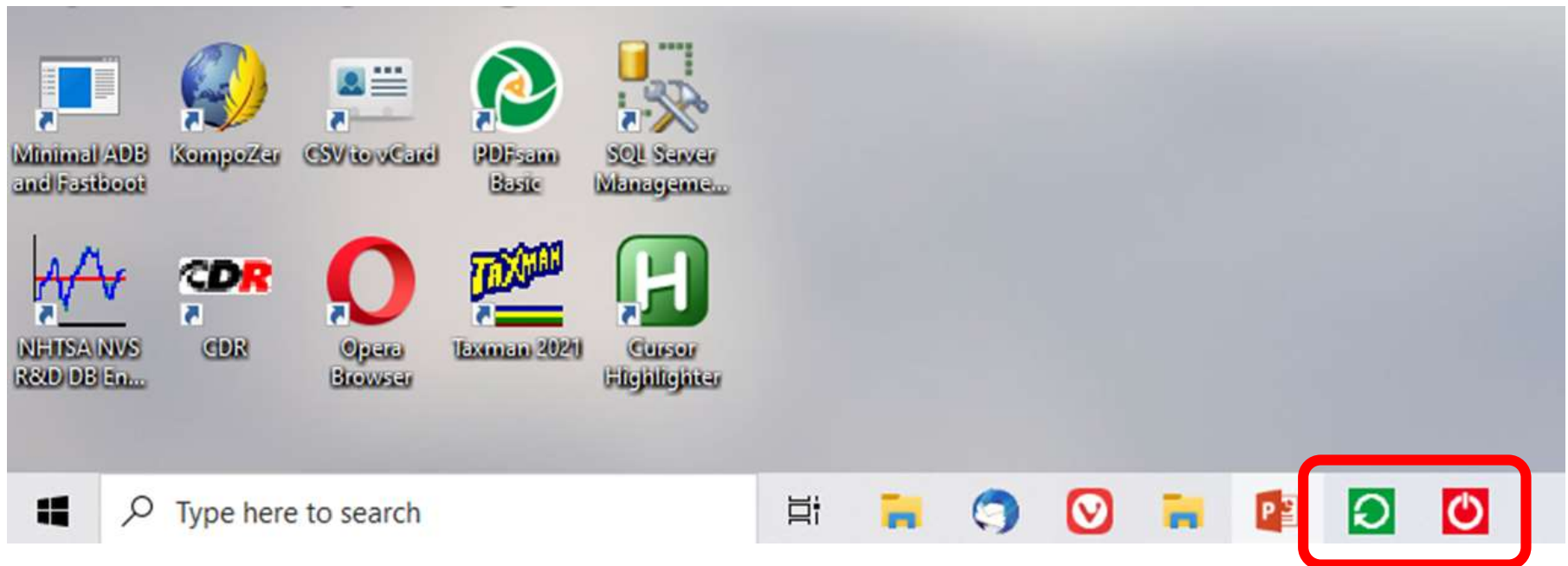
Click Next to continue.

Next

Cancel



Double-click a Desktop Icon



One-click - Drag Icons to Task Bar

Share

New zero-day vulnerability



- CVE-2022-30190
- Microsoft Support Diagnostic Tool protocol handler vulnerability
- Remote code execution (*worst kind of vulnerability*)
 - abuses the MSDT (Microsoft Diagnostic Tool) protocol handler
 - exploit code in the wild
 - executes simply by viewing a malicious Word document
 - executes a PowerShell script via the MSDT protocol
 - works even if macros are not enabled
- **Expect more abuses of protocol handlers!**

<https://msrc-blog.microsoft.com/2022/05/30/guidance-for-cve-2022-30190-microsoft-support-diagnostic-tool-vulnerability/>

SANS on YouTube

https://www.youtube.com/watch?v=vHW_hb2m_pw

Dealing with vulnerability

- Microsoft (& others) recommendation until fixed
 - remove the MSDT protocol handler in the registry
- 2-step process
 - back up the MSDT protocol handler registry key
 - so it can be restored, if needed
 - *very* likely not needed, especially in a home environment
 - delete the MSDT protocol handler registry key
- no reboot required

Share

Mitigating vulnerability

- Run a **Command prompt** as Administrator
 - click Start, type *CMD*, right-click *Command prompt* in results, choose *Run as administrator*
- Type two commands;

```
reg export HKEY_CLASSES_ROOT\ms-msdt "%USERPROFILE%\Documents\RestoreMSDT.reg"  
reg delete HKEY_CLASSES_ROOT\ms-msdt /f
```

- first line backs up MSDT registry key
 - **RestoreMSDT.reg** in **Documents** folder
 - yellow part: filename/location to store contents of registry key
 - can be anything you want
 - above is a universal name/location that should work for anyone
 - second line deletes MSDT protocol handler registry key
- To restore the MSDT protocol handler, double-click the file
 - **you probably will never need to do this**

Video and Audio Tools Series

- How to download videos and audio from YouTube using Video DownloadHelper
- How to download or capture videos using Debut Video Capture and Screen Recorder Software
- How to do still and video screen capture using ScreenHunter Pro all-in-one screen capture and screen recording software
- ➔ • How to capture (rip) audio from a video file and how to take a screenshot of the current video frame using GOM Player
- How to rip your CD's to MP3's using Express Rip CD Ripper
- How to edit the tags (metadata) for your MP3's

Video and Audio Tools Series

So far in this series, we've covered:

- **How to download complete videos or just the audio tracks of videos from YouTube using Video DownloadHelper**
- **How to capture videos using NCH Debut Video Capture and Screen Recorder Software**
- **How to do still and video screen capture using ScreenHunter Pro all-in-one screen capture and screen recording software**

**Now we're going to cover
how to capture (rip) audio
from a video file and how
to take a screenshot of the
current video frame using
GOM Player**

Why GOM Player?

- If you look at most of the websites that rate video players, their top picks usually include VLC Media Player and GOM Player.
- VLC is more feature rich, but as the reviews say there is a steep learning curve. GOM is easier to use and still has lots of features.
- There are URL's for top video player reviews at the end of this presentation so you can read the detailed reviews.

VLC Media Player

VLC is one of the best free video players in the market. It is an open-source and cross-platform multimedia player. VLC can play every format of video files like CD, VCD, DVD, webcams, audio, and streaming podcasts.

Pros:

- It is absolutely free.
- It has audio-video filters.
- Customizable Interface.
- Plays almost any video file
- Can tweak playback quality
- Supports plugins

Cons:

- Do not support external filters and MIDI playback.
- Steep learning curve

GOM Player

GOM is one of the best free media players available in the market, supporting different types of media formats like AVI, MPEG, FLV, WMW, MOV, MKV, and more.

Pros:

- **Screen capture and media player capture**
- **Playback speed controls**
- **Friendly layout**
- **Handles 360-degree video**
- **A-B repeat**
- **Supports screencasting**
- **Can play some broken media files**
- **Mobile versions (Android and iOS) available**

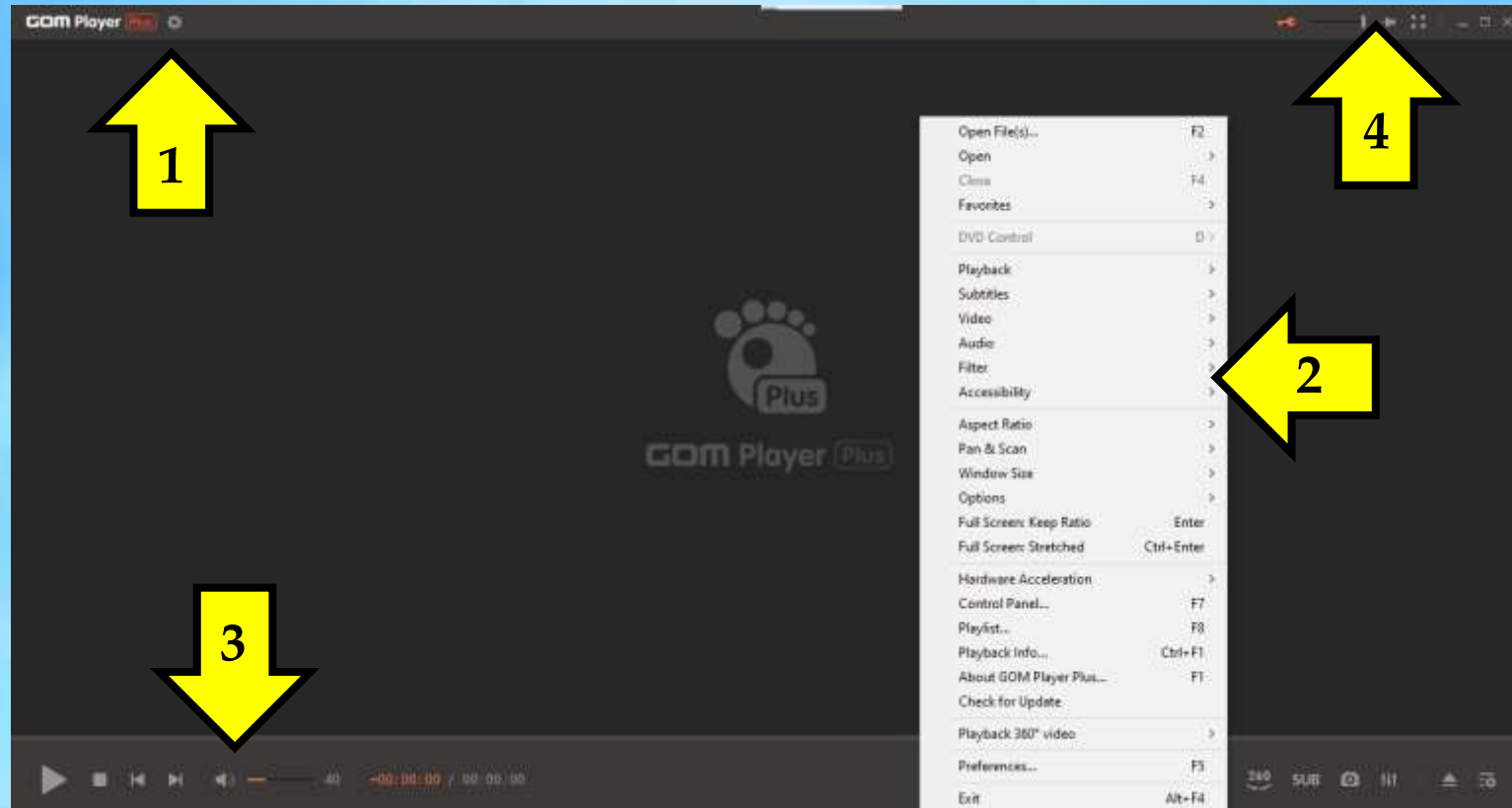
Cons:

- **The help feature is limited.**
- **Beware of attempts to include bundled extra software during install and upgrades**
- **The free version may have some ads.**

GOM Player

- **GOM Player has a free version and a premium version called GOM Player Plus.**
- **GOM Player Plus is add-free and supports more features.**
- **GOM Player Plus costs between US\$15 and US\$25 depending on the tides and the phases of the moon.**
- **GOM Labs also has several different audio and video related software products.**

GOM User Interface



- (1) Preferences (F5)
- (2) Operating Menu (right click to display)
- (3) Playback Controls
- (4) Maximize, Restore Down, Minimize and Fullscreen Controls

Note: In fullscreen mode the top and bottom menu bars are hidden. To display them, hover the mouse cursor at the top or bottom of the screen.

Preferences Home Screen



Hit 'F5' to display. Settings to note:

- **'General - Show preview screen when exploring using file playback bar - ON'**
- **'General - Mouse - Autohide mouse cursor while playing - ON'**

To take a Screenshot



- Start playing the video then pause it.
- You can bring up the preview screen (1) by moving the mouse along the file playback bar (2) to find the part of the video you want, then click on the spot on the playback bar to go there. The video will still be paused.

To take a Screenshot



- You can move forward ('F' or CTRL->) or back (CTRL-<) one frame at a time, or move forward (CTRL-F) or back (CTRL-B) 10 seconds at a time.
- When you get to the frame you want hit CTRL-E to take the shot. Taking the shot moves the video forward a frame, so you can take several shots in a row to review and edit later. The two shots shown above were three frames apart in the video.
- The shots will be in the 'c:\Users\yourusername\Documents\GOMPlayer\Capture' folder.

To take a Screenshot



Some parts of the frames of the video where there is action may be blurred (look at Ringo's drumsticks).

That is why you may want to start a few frames ahead and take several shots in a row so you can chose the best one.

Capture the Entire Audio Track



- Open GOM Player and hit Shift-G to bring up the Advanced Audio Capture window (the video can be playing as you do this). You may want to move the window to the side.
- Go to the 'Format' box and select 'MP3'.
- Check off the 'Auto-capture on startup' box (2).

Capture the Entire Audio Track



- Close GOM Player, then double-click the video in file manager to start it up (you will need to set GOM Player as your default video player). The audio track is being captured as the video is playing.
- As soon as the video has finished playing, close GOM Player. The audio track will be in the '*c:\Users\yourusername\Documents\GOMPlayer\Capture*' folder.
- You can set a different capture folder by opening up the Operating Menu (right click) and going to '*Audio - Open a Capture Folder...*'.

Capture the Entire Audio Track

- You can double-click another video in file manager to rip another audio track.
- When you are finished ripping entire audio tracks, open GOM Player, and hit Shift-G to bring up the Advanced Audio Capture window.
- Uncheck the 'Auto-capture on startup' box, then click on the 'Close' box in the lower right corner of the window.

Capture Part of an Audio Track



- Double-click the video in file manager to start it up, then pause it immediately.
- Hit Shift-G to bring up the Advanced Audio Capture window. You may want to move the window to the side.
- Go to the 'Format' box and select 'MP3'.
- Un-pause the video. As it gets to the place you want to start ripping the audio, click on the 'Start' box (1). As the video gets to where you want to stop ripping, click on the 'Stop' box.

URL's

GOM Labs

<https://www.gomlab.com/download>

VideoLAN (VLC Media Player)

<https://www.videolan.org>

GOM Player Wikipedia

https://en.wikipedia.org/wiki/GOM_Player

VLC Media Player Wikipedia

https://en.wikipedia.org/wiki/VLC_media_player

Comparison of video player software

https://en.wikipedia.org/wiki/Comparison_of_video_player_software

Top 10 Best Free Windows Video Player for Windows

<https://www.nucleustechnologies.com/blog/top-10-best-video-player-for-windows>

The best free video players to use in 2022

<https://www.techradar.com/best/free-video-player>

15+ Best Video Player For Windows 10 in 2022

<https://www.softwaretestingmaterial.com/video-player-windows>

Coming Up Next Time

- How to download videos and audio from YouTube using Video DownloadHelper
- How to download or capture videos using Debut Video Capture and Screen Recorder Software
- How to do still and video screen capture using ScreenHunter Pro all-in-one screen capture and screen recording software
- How to capture (rip) audio from a video file and how to take a screenshot of the current video frame using GOM Player
- ➔ • How to rip your CD's to MP3's using Express Rip CD Ripper
- How to edit the tags (metadata) for your MP3's



**Any other:
Questions
Comments
Shares?**

Scam avoidance and trust

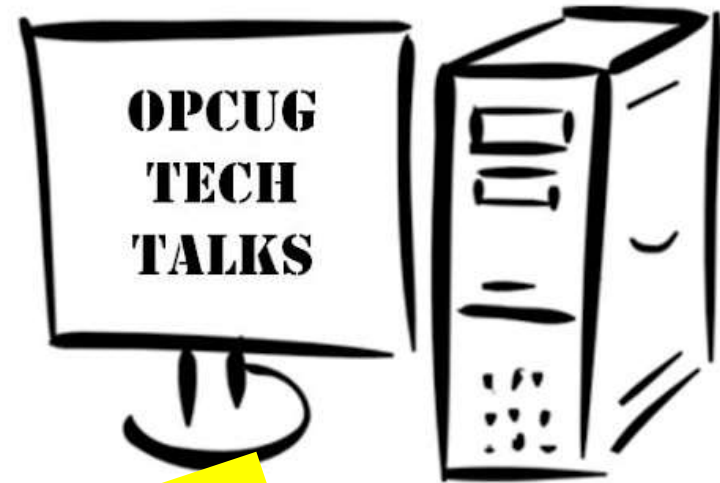
June 6th, 7:00 pm

Protect yourself from the many computer-based scammers who are always trying to steal your money or your identity.

Lawrence Patterson will reveal the significant difference between wise trust, sources of scams, tips to be aware of, details common to all scams and, most importantly, how to take control.

Full details at:

<https://opcug.ca/events/scamavoidance/>



**LAST CALL !!!
(for this Monday)**



Lawrence Patterson

Registration required

*Free for OPCUG members
\$20.00 for non-members
(including one-year membership)*

June Meeting

Pizza-Q

Vincent Massey Park
(Heron at Riverside)
Picnic Shelter S2

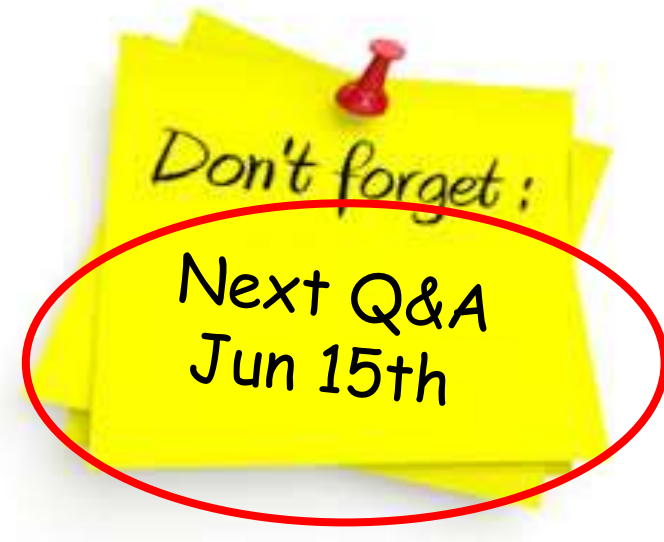
June 8, 2022

Pizza arrives at 6:30 pm





No Q&A on
June 8
(Pizza-Q!)



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

SuggestionBox@opcug.ca

