



Alan German & Chris Taylor

Ottawa PC Users' Group

February 5, 2025

Welcome

to our Q&A Session
on Zoom

**Topics covered
to date: 1,502**





How Does OneDrive Work?

- Do you use OneDrive?
- What files and folders are involved?
- Can you explain how OneDrive synchronizes files between your PC and the cloud?
- What features do you find useful?
- Can you provide a share at Q&A to educate the rest of us?

SuggestionBox@opcug.ca





Ripping DVD's

I'm hoping for advice and input on (preferably free) programs that can be used to transfer DVD's to digital files so that I can clear my collection from my bookcases.



Jan Rourke



Loonie Links

DOMS



DOMS

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Doors Open for Music at Southminster is a weekly Wednesday noon-hour concert ...more

doms613.com/donate

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Home Videos Live Playlists Community

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Tendre et fidèle

DOMS
208 views • Streamed 1 day ago



Three Miracles

DOMS
267 views • Streamed 8 days ago



Schubert's Arpeggione

DOMS
386 views
• Streamed 2 weeks ago

<https://www.youtube.com/@doms613>

Tom Trottier@ OPCUG-Member-Forum



Talking With Docs



Loonie Links

- <https://www.youtube.com/@TalkingWithDocs>
- Dr. Paul Zalzal and Dr. Brad Weening
- Orthopedic surgeons and members of the Royal College of Physicians and Surgeons of Canada
- Make medicine accessible
 - practical insights on orthopedic treatments
 - tips on surgeries, gut health, & other health topics
- Blend insight and humour
- Learn how to properly prepare for surgery, surgery risks, what to expect after surgery, cardiology, anesthesia and much more

Top Five Mistakes People Make
After Total Knee Replacement

Fiber: The Key to Unlocking Better Health

Inflammatory Foods: What To Avoid

Top 10 Mistakes Measuring
Your Own Blood Pressure

Daily Aspirin - Should You Take It?

Tom Trottier @ OPCUG-Member-Forum



Deepseek R1 Explained Dave's Garage

YouTubeTech

- Dave Plummer, retired Microsoft software engineer
- Deepseek R1 shakes up the world of AI
- Why Deepseek R1 is such a big deal
- How it works
- What's new
- Implications and fall out



<https://www.youtube.com/watch?v=r3TpcHebtxM>

**Today, I'd like to tell you
about my Inkjet Printer**





Epson Inkjet ET-2550

Purchased: Nov 2016

Refillable Ink Tanks



\$59.00
2023



\$18.00
2019



my printer is used often
the ink lasts *forever!*



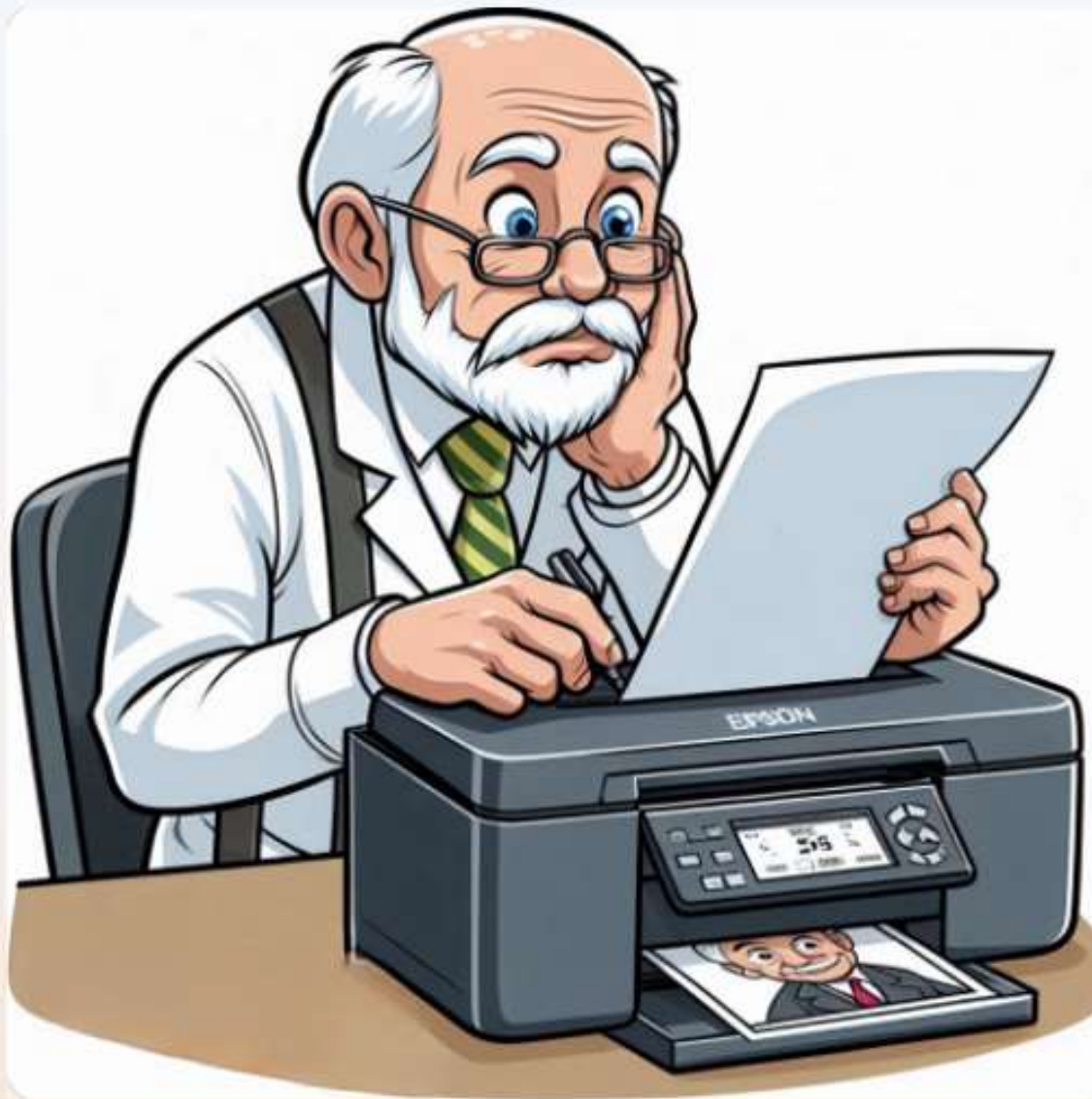
E-11
Code

Ink pad needs service.  **E-11**
Contact Epson.



Turn Off

The DIY Decision



Ink Pad Extraction



Looking up,
-working from bottom

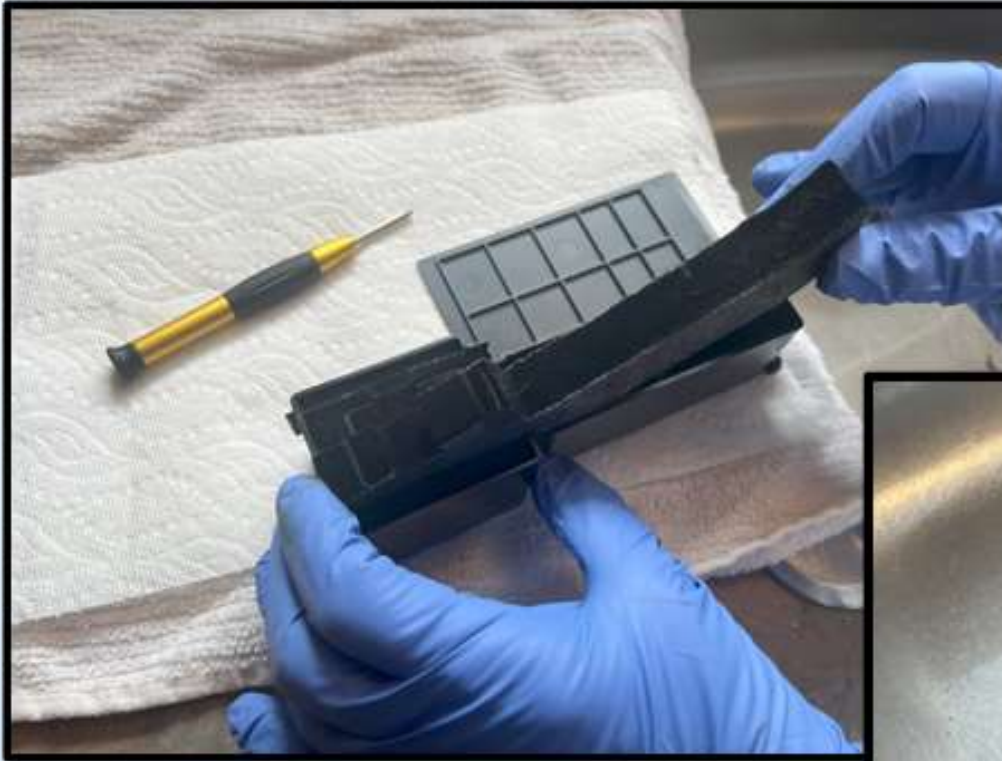


Ink Pad Holder! 



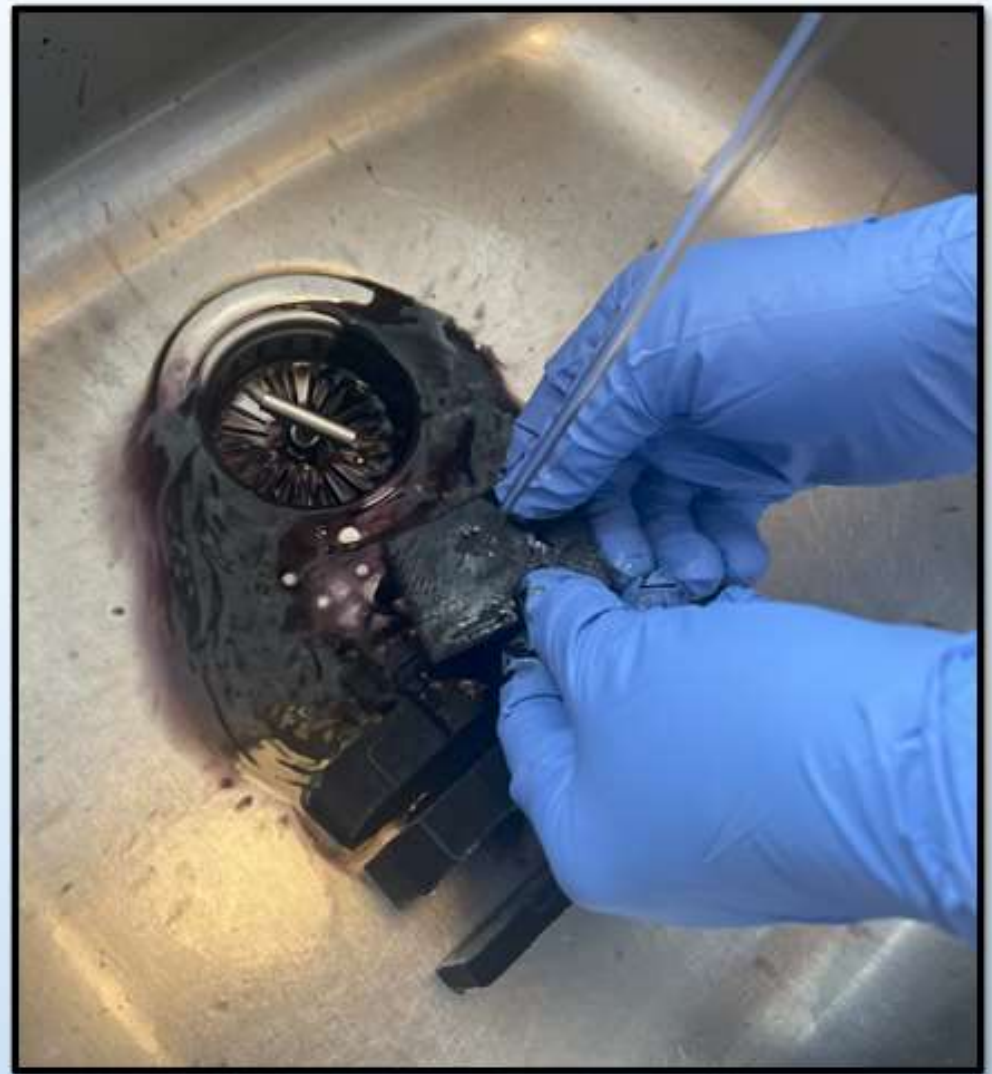
Do Not Tilt

Cleaning the Ink Pads...



Kitchen Sink

**Use water to
clean Ink Pads**



Blue Gloves

Drying:

The Canadian Way

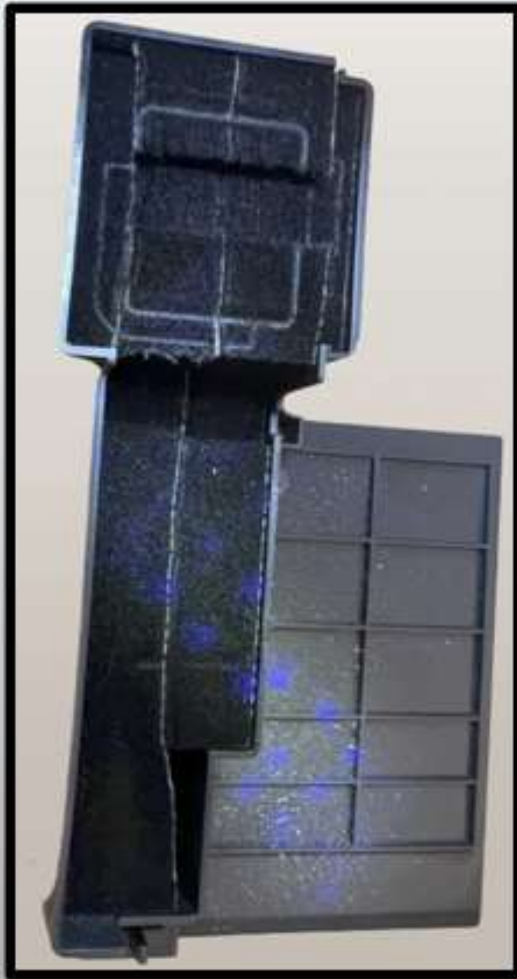


Hot Air Floor Register

24 Hours Later

Drying Complete

Before



After



Oh No
They Shrunk!



New Plan!

Epson Waste Ink Tank Pads \$21.99

Arriving tomorrow



amazon



Reassembly: The Big Moment

I reassembled the printer and felt like an Engineer until... it didn't work!



Turns out, there's a
“Counter” that
needs to be Reset!

Resetting the Software

WIC.support
Waste Ink Counter Reset Utility Support

Download Free

Download latest **WIC Reset Utility** version

This will **Reset** your **Counter**

Lessons Learned

- Printers have hidden parts
- DIY fixes can save money
- **Skip** washing old Ink Pads

Just buy new ones!



Share

Microsoft Edge

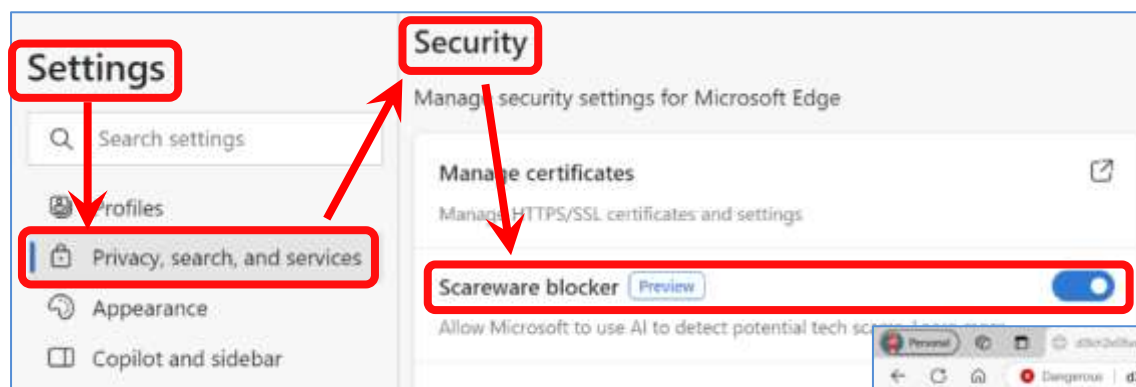
Scareware blocker

- Scareware scams:
 - type of tech support scam
 - try to convince victims into thinking system is infected
 - pressure to call a fake tech support number
 - try to gain access to the computer
- Many such scams come and go in hours
 - long before typical anti-malware can detect and defend
- Edge has a new *Scareware blocker* in preview
 - uses machine learning to recognize tell-tale signs of scareware scams

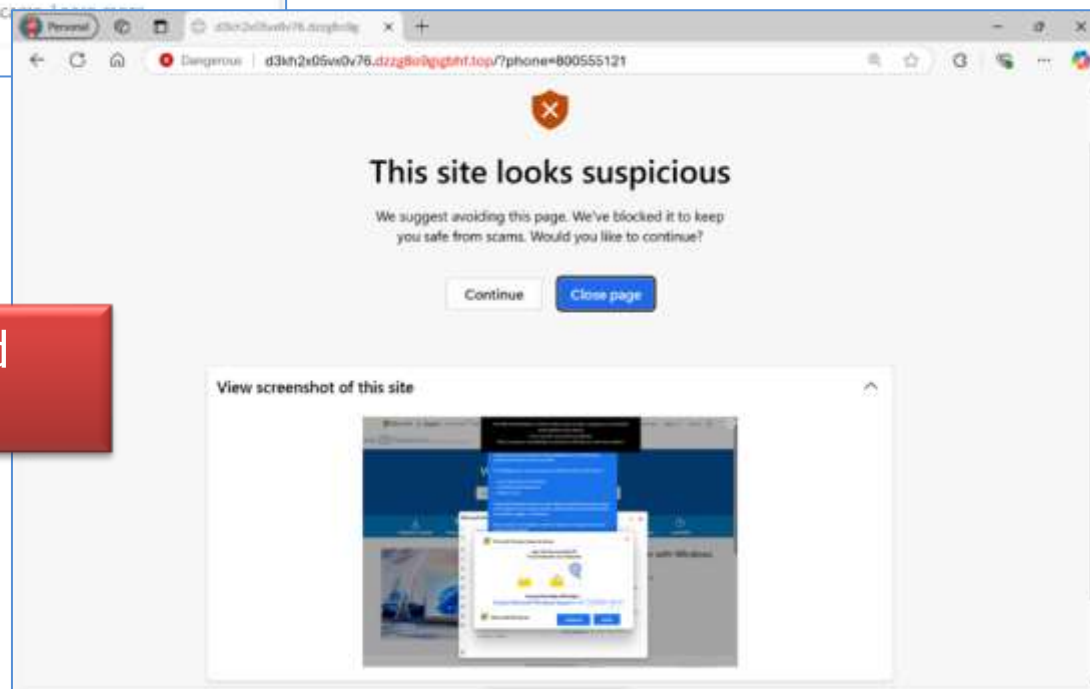
Share

Enabling *Scareware blocker*

- Edge > meatball menu (top-right)
 - *Settings > Privacy, search and services > Security > Scareware blocker*



Example of blocked
Scareware scam



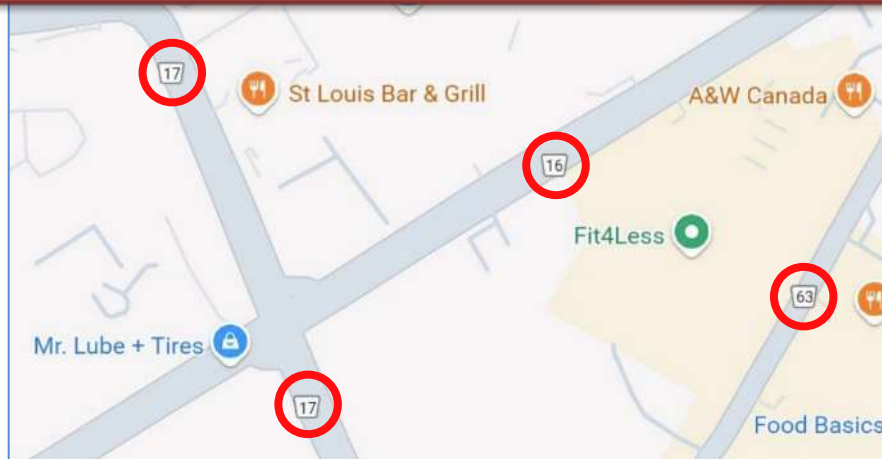


Google Maps & road names



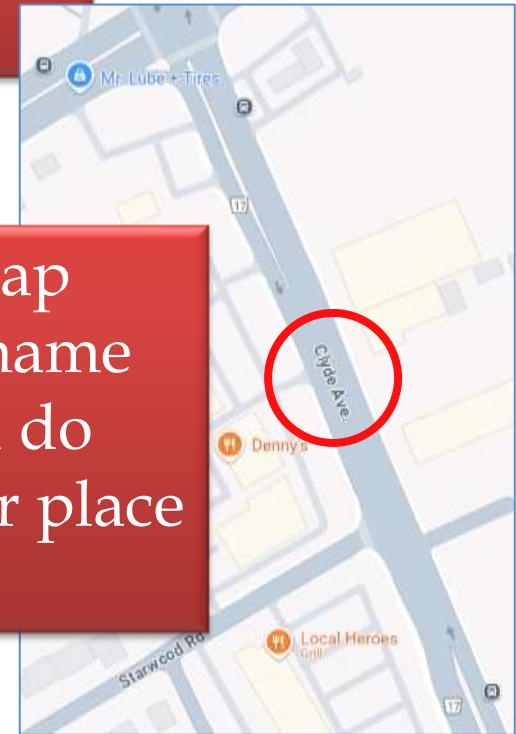
Google Maps annoys me with reliance on County Road or Regional Road numbers as opposed to names

- guess few know/use them in urban areas



Can zoom into a map until you find the name

- by the time you do
- you've lost your place on the map

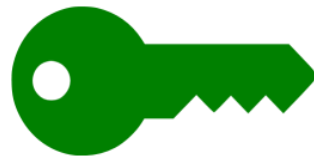


Is there a way to tell Google Maps to display road names only and not regional road numbers?

Share

Passkeys

- Log on to a web server without using a password
- Uses asymmetric encryption
- Need to set up a **Public Key** and **Private Key** pair



- Authentication:
 - Enter userid to access the server
 - Server issues a challenge using your public key
 - Your computer responds using private key
 - Server authenticates response using public key
 - Logon is automatic



Private Key



Public Key

Anything encrypted
using the **Private Key**
can only be decrypted
with the **Public Key**



Private Key



Public Key

Anything encrypted
using the **Public Key**
can only be decrypted
with the **Private Key**



YouTubeTech

How does public key cryptography work



How does public key cryptography work – Gary explains



Android Authority ✓
3.39M subscribers

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👍 3K



➦ Share



<https://www.youtube.com/watch?v=rLiEA06Bcic>

<https://www.androidauthority.com/public-key-cryptography-717863/>

RSA Algorithm

- Basis is the mathematical modulus operation
- Modulus is the remainder when one integer is divided by another and no fractions are used
e.g. $11 \bmod 5 = 1$ ($11/5 = 2$ with a remainder of 1)

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$$14 \bmod 5 = 4$$

$$15 \bmod 5 = 0$$

$$16 \bmod 5 = 1$$

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$$26 \bmod 5 = 1$$

We might know 5 and 1
but we can't calculate "N"

i.e. Modulus is a
one-way function!



YouTubeTech

RSA Algorithm - How does it work?

- I'll PROVE it with an Example



Ed Harmoush

RSA Example

- Encryption and Decryption:

- Encryption:

$$\text{Message}^E \text{ MOD } N = \text{Cipher Text}$$

- Decryption:

$$\text{Cipher}^D \text{ MOD } N = \text{Message}$$

- Encrypt with **Public Key**, Decrypt with **Private Key**

$$(60^{29}) \text{ MOD } 133 = 86$$

$$(86^{41}) \text{ MOD } 133 = 60$$

Message
60

Prime #s	P	Q	7	19
Product	N		133	
Totient	T		108	
Public Key	E		29	
Private Key	D		41	

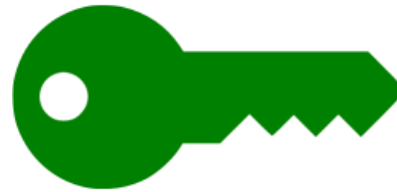
"If you can't explain it to a six year old, you don't understand it yourself."

— Albert Einstein



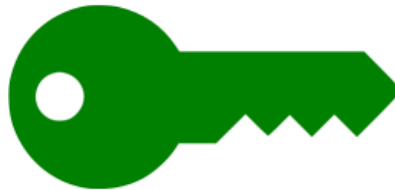
<https://www.youtube.com/watch?v=Pq8gNbvfaom>

Logon to Google



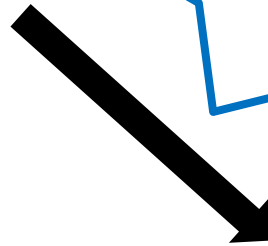
Alan's laptop

Google's server
(Alan's account)





Hello, this is Alan
logging in as :
alan.german@opcug.ca





I'm thinking
of the number
495184





Server encrypts the number
using Alan's **Public Key**



495184



xagdfy



xagdfy



What is this number?





The encrypted number
can only be decrypted
on the laptop using
Alan's **Private Key!**


xagdfy
↓
495184





The laptop **encrypts** the number
using Alan's **Private Key**!



xagdfy



495184

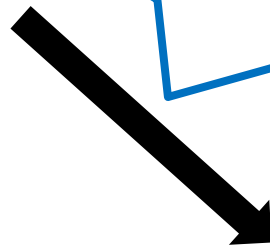


lhdtkz





Your number is
lhdtkz





The encrypted number
can only be decrypted
using Alan's **Public Key**



lhdtkz



495184



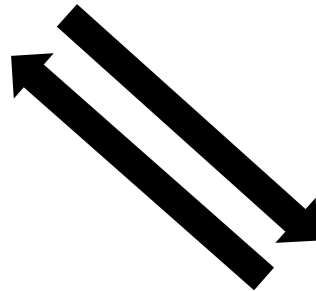
My number was

495184

You returned

495184

You are authenticated
as Alan and logged on





YouTubeTech

What is a Passkey?



What is a Passkey?



Ask Leo!
115K subscribers

Subscribe

4.6K



Share



https://www.youtube.com/watch?v=6lBixL_qpro

- Home
- Personal info
- Data & privacy
- Security**
- People & sharing
- Payments & subscriptions

About

Archive of Google data requested Dec 25, 2024 · Ontario, Canada >
[Review security activity](#)

How you sign in to Google

Make sure you can always access your Google Account by keeping this information up to date

2-Step Verification 2-Step Verification is off >

Password Last changed Jun 13, 2018 >

Skip password when possible >

Recovery phone Add a mobile phone number >

Recovery email Verify alan@alanandcarol.ca >

You can add more sign-in options

Passkeys and security keys Authenticator Google prompt

← Passkeys and security keys



A passkey can't be created on this device

Make sure your device's operating system is up to date, your screen lock and bluetooth are enabled, and that you're using a supported browser like Chrome. [Learn more](#) ⓘ

FileEditViewBookmarksToolsWindowHelp

Signing in with a passkey - Microsoft Support

Signing in with a passkey -

support.microsoft.com/en-us/account-...Search GoogleJSOff

Creating a passkey

To create a passkey for your Microsoft account, follow these steps on the device for which you'd like to create a passkey:

1. Sign in to your Microsoft account **Advanced Security Options**.

Sign in

2. Choose **Add a new way to sign in or verify**.

3. Select **Face, fingerprint, PIN, or security key**.

4. Follow the instructions on your device.

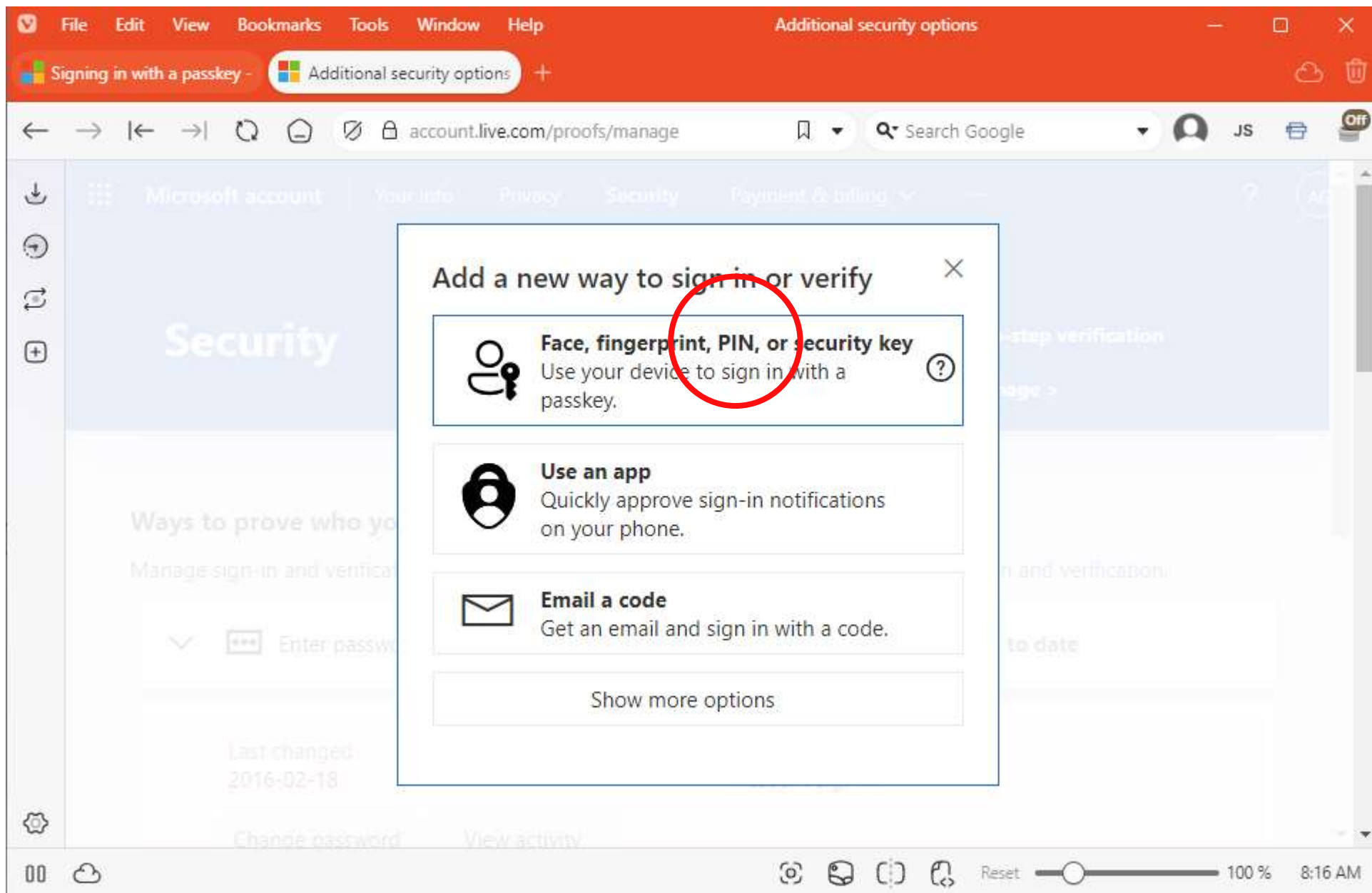
Was this information helpful?

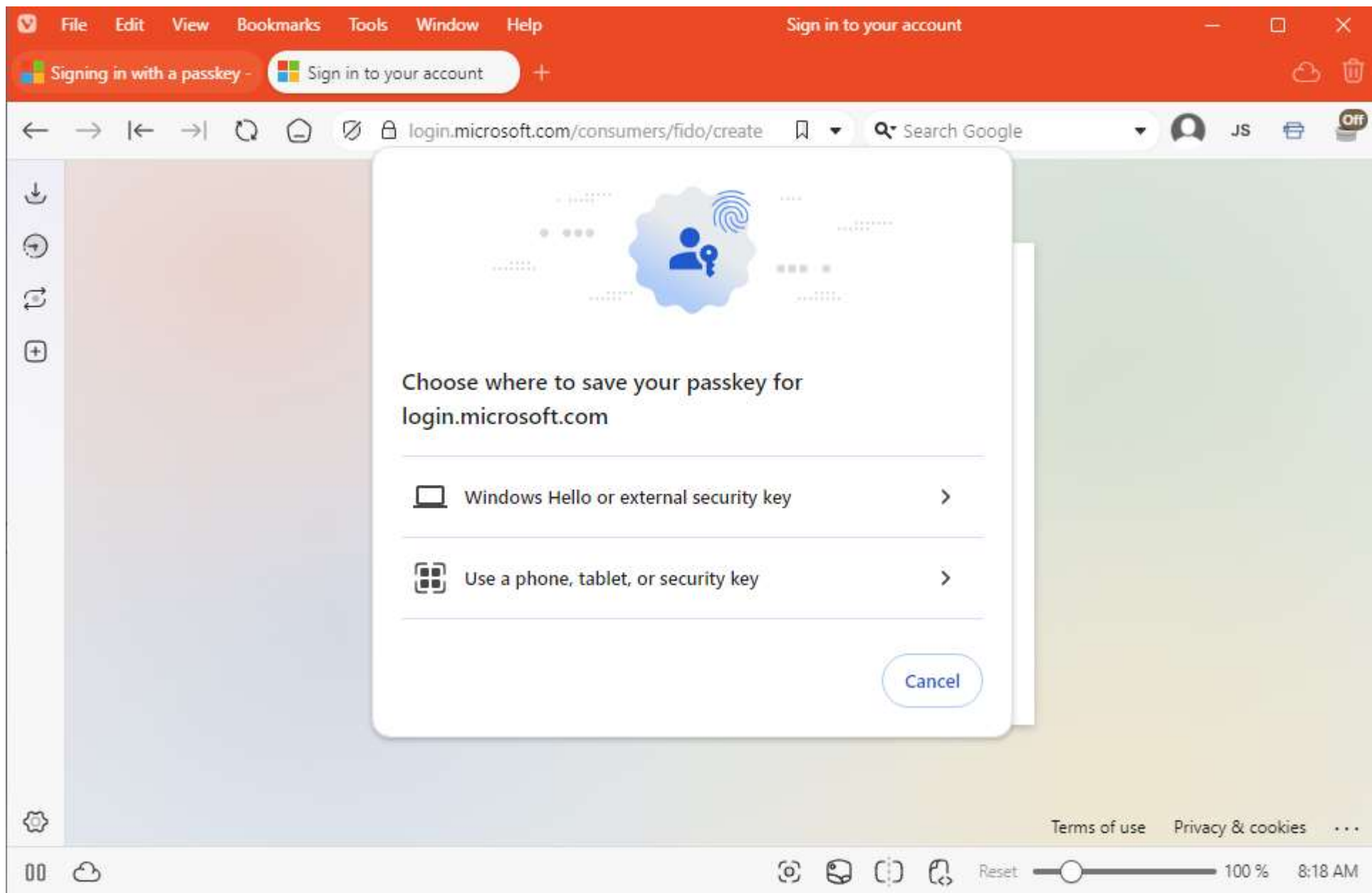
YesNo

8:00 AM

100 %

Reset





Why can't I store a passkey on my Windows 10 computer?

[Edit Query](#)

Sources

Windows 10 password length limit? : r/sysadmin - Reddit



How to Enable Passkeys on Windows - Corbado



WebAuthN API - Win32 apps - Microsoft Learn



Show all

Answer

You can't store a passkey on your Windows 10 computer due to several limitations:

1. Windows 10 lacks full passkey support. Only Windows 11 offers complete passkey functionality, including creation and local storage ².
2. Windows 10 doesn't have the required WebAuthn API version for optimal passkey user experience. It only supports WebAuthn API version 3, while version 4 is needed for better functionality ² ⁹.
3. Many Windows 10 devices lack a Trusted Platform Module (TPM), which is necessary for securely storing passkeys ⁴ ⁷.
4. Windows 10 doesn't have a built-in passkey management interface in its Settings app, unlike Windows 11 ² ⁷.
5. The last feature update for Windows 10 (22H2) doesn't include the necessary components for full passkey support, such as the required WebAuthn library version ⁴ ⁶.

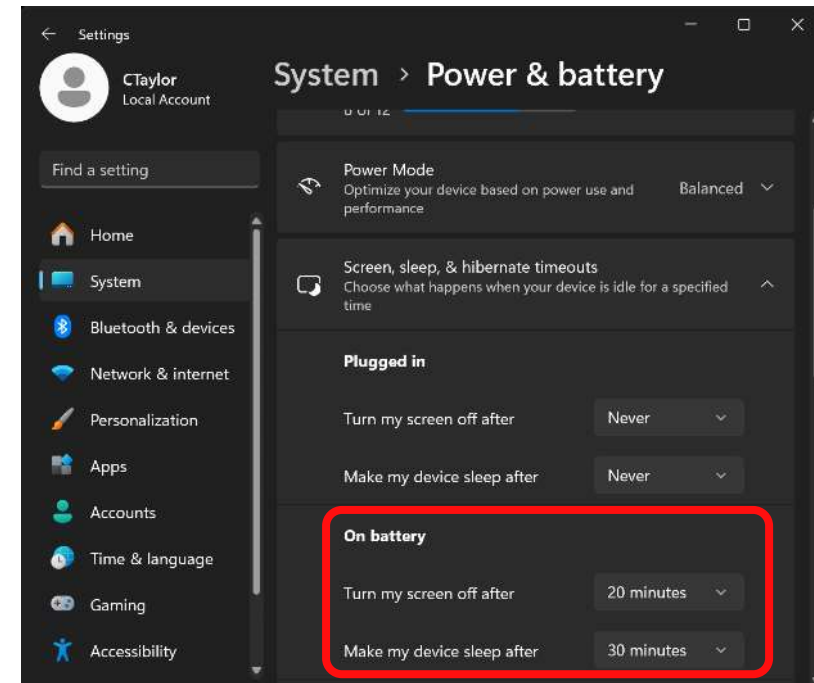
Share

Strange hibernation problem

- New laptop *Enceladus*: ASUS ProArt PX13
- Configured power settings for *On battery*
 - *System > Power & battery > Screen, sleep & hibernate timeouts*
 - *Turn my screen off after 20 minute*
 - *Make my device sleep after 30 minutes*

Note:

- no option for *hibernation*



Share

No option for hibernation, yet...

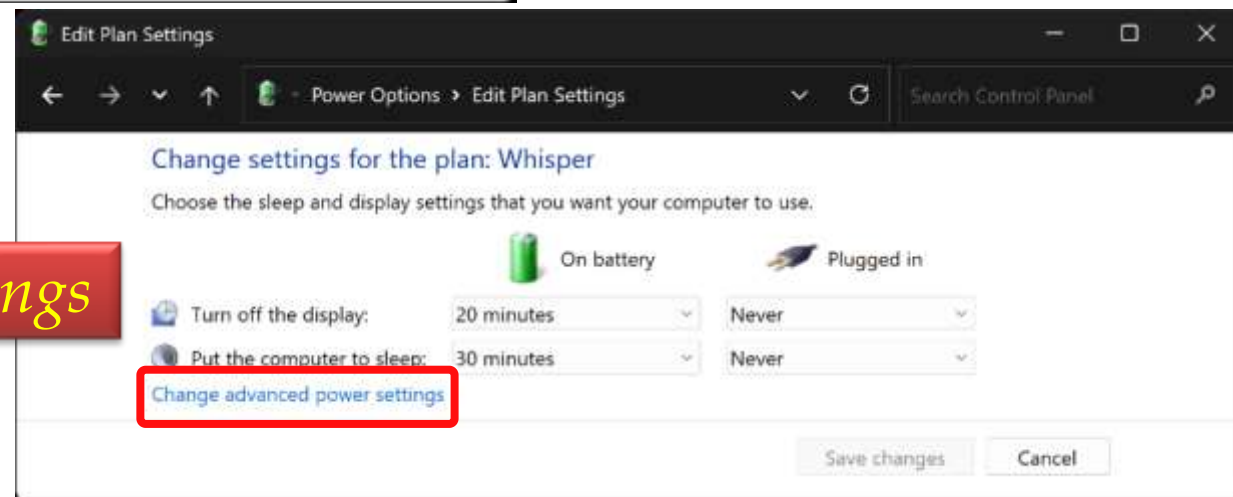
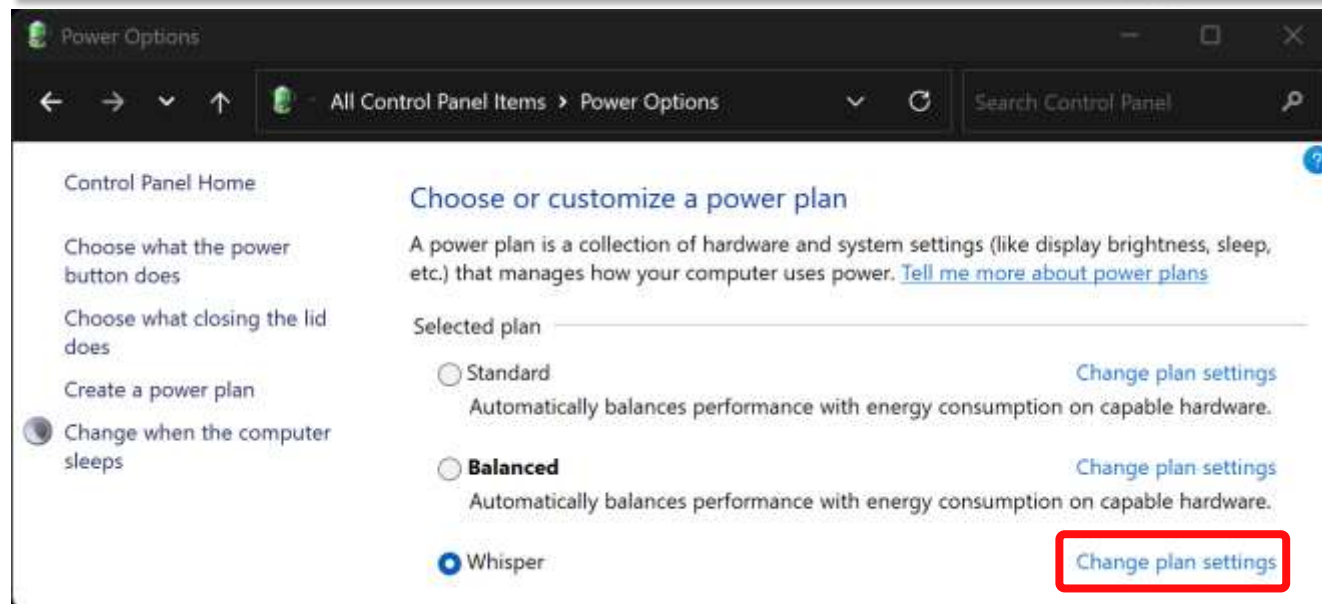
- *Enceladus* did:
 - turn off the screen after 20 minutes of inactivity, and
 - go into sleep mode after 30 minutes of inactivity
- **But...**if I left it in sleep mode
 - after a couple of hours, it would automatically go into hibernation
- While benefit of using no power while in hibernation
 - recovery from sleep mode: a couple of seconds
 - recovery from hibernation: 15 seconds
 - hibernation may shorten life of SSD

Share

Controlling hibernation

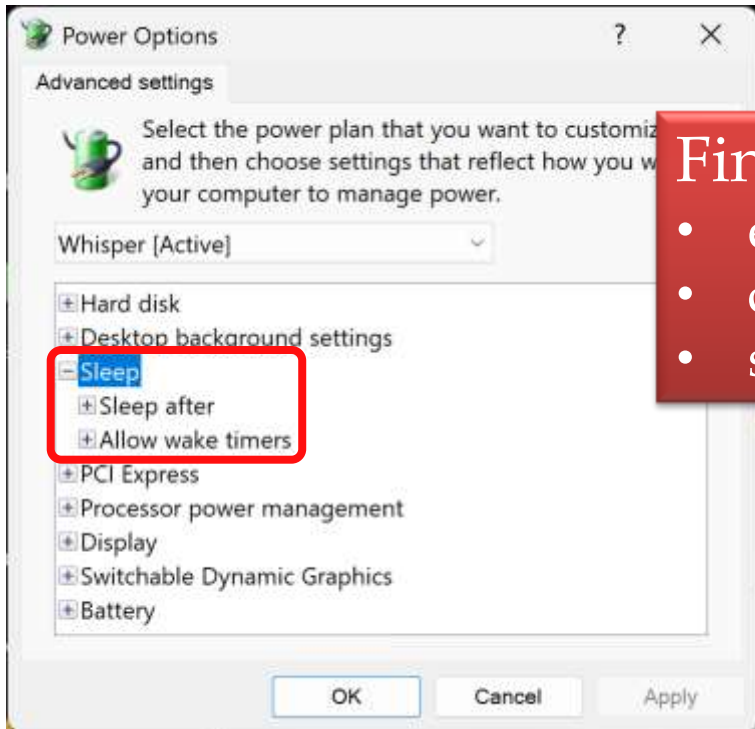
Can't be done in *Settings*

Control Panel > Power Options > Change plan settings



Change advanced power settings

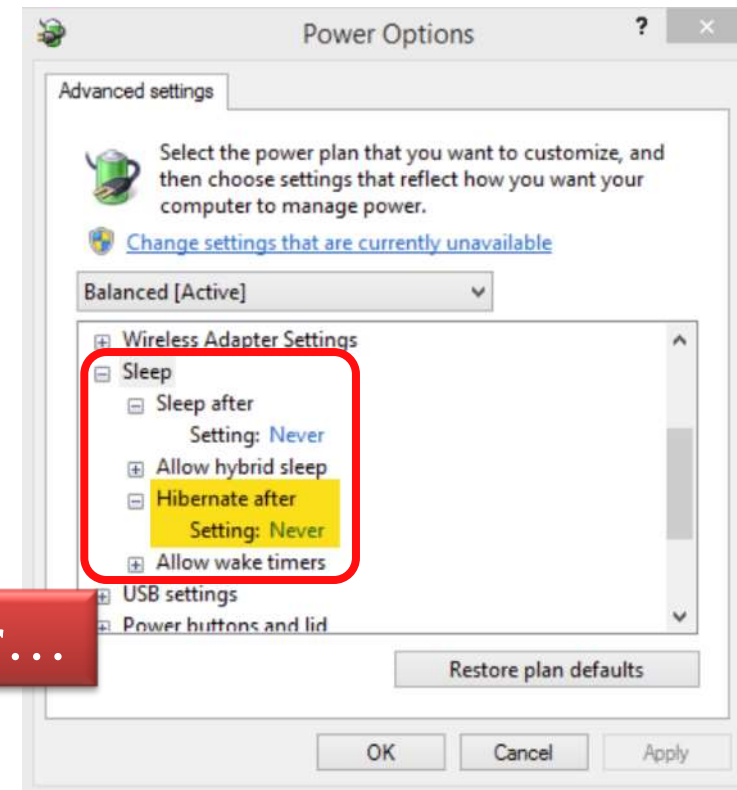
Share



Finally, you get to where you can

- expand *Sleep* section
- choose *Hibernate after*, and
- set time for automatic hibernation while on battery

Only I don't have *Hibernate after*...



What I was hoping for...

Share

Perplexity.AI to the rescue?

- No option for *Hibernate after* in *sleep* section of *Change advanced power settings*
- Steps to resolve issue:
 - Enable Hibernate:
 - open Command Prompt as administrator and run command:
 - **powercfg/hibernate on**
 - Add **Hibernate after** to Power Options:
 - run command in an elevated Command Prompt:
 - **REG ADD HKLM\SYSTEM\CurrentControlSet\Control\Power\PowerSettings\238C9FA8-0AAD-41ED-83F4-97BE242C8F20\9d7815a6-7ee4-497e-8888-515a05f02364/v Attributes/t REG_DWORD /d 2/f**
 - this will make the **Hibernate after** setting visible in Power Options
 - Check for **Connected Standby**:
 - Some devices, particularly those supporting Modern Standby, may not have hibernate available by default. To disable Connected Standby:
 - Open Registry Editor
 - Navigate to **HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Power**
 - Set the **CsEnabled** key to 0
 - Reboot computer
 - Change **Hibernation Type**:
 - If the above steps don't work, try changing the hibernation type:
 - **powercfg/h/type full**
 - changes the type of hibernate file, which may resolve the issue
 - Update BIOS and Power Management Drivers:
 - ensure your BIOS and power management drivers are up to date

Share

Perplexity.AI to the rescue?

- Concluding statement:
 - If these steps don't resolve the issue, it's possible your specific device or Windows configuration doesn't support the *Hibernate after* option
- WTF?
 - *I might do all those steps and I **still** won't have the option to configure Hibernate after?*

Share

More reading

- Microsoft's official word on **Adaptive Hibernate**
 - <https://learn.microsoft.com/en-us/windows-hardware/customize/power-settings/adaptive-hibernate>
- Lots of details on using *Powercfg* at command line
- Several settings affect how computer automatically hibernates
 - *StandbyBudgetPercent*
 - defines battery drain before computer hibernates
 - default is 5%
 - *StandbyBudgetRefreshInterval*
 - *StandbyBudgetRefreshCount*
- Tested on *Enceladus*
 - after computer hibernated, battery level had dropped 5%

Share

Do I really need to configure *Hibernate* after...

- And then I considered...
- With my current configuration & while on battery
 - screen turns off after 20 minutes of inactivity
 - configurable
 - computer goes into sleep mode after 30 minutes of inactivity
 - configurable
 - computer hibernates when battery level drops by 5%
 - configurable only through command-line magic incantations
 - for *Enceladus*, this is generally after about 2 hours
- I can sleep the computer for a couple of hours
- Battery should never drain to zero
 - after battery level drops 5% (reasonable), *Enceladus* hibernates

That actually sounds
pretty good to me!



Share

OPCUG

doing astonishingly well!

*I saw it on the Internet
so it must be true*

- Stumbled across the following info about the OPCUG
 - <https://www.zoominfo.com/c/ottawa-pc-users-inc/50529235>
- Revenue \$11.9 Million
- Total Employees 70
- Ottawa PC Users Latest Hires and Their Positions
(aside: let's all welcome these newcomers hired just last year)
 - Chris Taylor President Joined Jul 4, 2024
 - Alan German Treasurer Joined Feb 23, 2024
- What is Ottawa PC Users competition?
 - Ottawa Fountain Pen Society (whew! I checked and they meet on Tuesdays)
 - North York Astronomical Association
 - The Ontario Electrical League
 - Malayali Association of Ottawa
- What technology does Ottawa PC Users use?
 - WooCommerce
 - WordPress.org
 - PHP
 - Google Font API



**Any other:
Questions
Comments
Shares?**



One-on-One Remote Assistance

- Do you have detailed knowledge of a computer program or operating system?
- Are you willing to share your expertise with other club members who have a specific problem?
- We are looking for volunteers to join our “expert” panel who will provide remote assistance (e.g. Microsoft Quick Assist/Zoom)
- You can volunteer by simply sending a message to: SuggestionBox@opcug.ca



**One-on-One
Remote Assistance**
(members only)



Buy One, Get One Free!

Join OPCUG before March 31st

Pay \$20 for one-year's membership

We will give you an additional year's membership at no further cost!

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

Already an OPCUG Member?



Do not renew your membership !

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



Armchair Travel - Ireland & Scotland

Lynda Buske

Alta Vista, Thursday Feb 6, 2025 at 6:00pm

Windows 10 End of Life - What Next?

Alan German

On-line over Zoom, Thursday Feb 13, 2025 at 2:00pm

Quick PC Tips: Enhancing capabilities and Performance with free tools

Chris Taylor

Sunnyside, Tuesday Feb 18, 2025 at 6:00pm

<https://biblioottawalibrary.ca/en/program?text=pc+users>

February Meeting



How to Buy a PC

Chris Taylor (OPCUG)

February 12, 2025

7:30 pm



Chris Taylor

SMARTPHONE ESSENTIALS

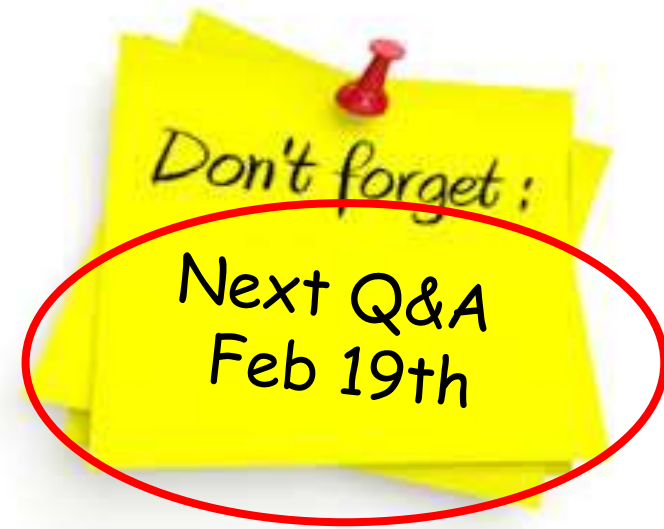
All the Best Apps for your Smartphone

- March 12, 2025 monthly meeting
- Useful apps for smartphones and tablets
- Android or iPhone/iPad
- Showcase your favourite app
- Send the name of the app to:
SuggestionBox@opcug.ca
- First come – first served
- No duplicates!





No Q&A on
February 12
(Monthly Meeting)



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

SuggestionBox@opcug.ca