



Alan German & Chris Taylor
Ottawa PC Users' Group

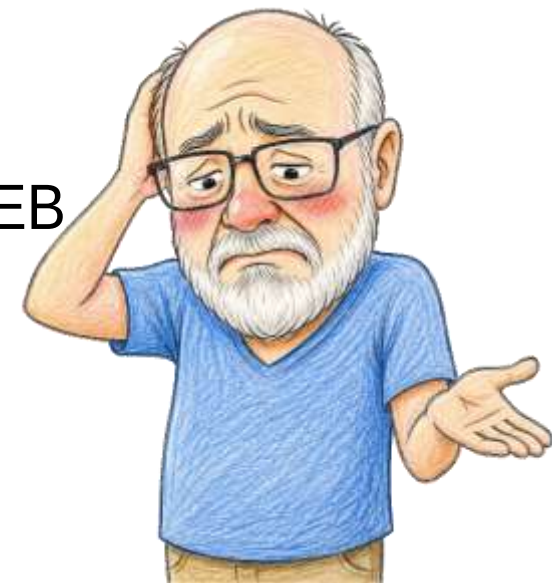
September 2, 2026

UPDATE



Max file sizes on flash drives

- August 26 Q&A
 - someone spoke of a problem copying 6 GB file to a flash drive
- Chris said make sure the flash drive is formatted
 - FAT32 or NTFS
 - saying they support individual files over 4 GB
- Steve wrote to Chris asking why he said that
- **Chris was wrong**
 - FAT32 supports files up to 4 GB
 - exFAT and NTFS support file sizes up to 16 EB
- In File Explorer
 - right-click flash drive > *Format* > *File system*
 - choose *NTFS* or *exFAT*



Follow Up Charging is default *USB mode* in Android



Q&A August 26



On a Samsung Galaxy A36 phone what is the location of the setting for transferring files under Default USB configuration

Finished 1 step >

On the Samsung Galaxy A36 (Android 16 / One UI 8), the **Default USB configuration** setting lives inside **Developer options** — it's a hidden menu you have to enable first.  youtube

itechguides

Android defaults to *charging* if plugged into computer

- preferred default: *file transfer*

Follow Up Developer option

Answer Links Images ... Share

How to change the default USB mode on Pixel 6

1. Enable Developer Options (if not already enabled)

- Open **Settings** → **About phone**.
- Scroll to **Build number**.
- Tap **Build number** 7 times quickly.
- You'll see a message like "You are now a developer."

2. Set the default USB configuration

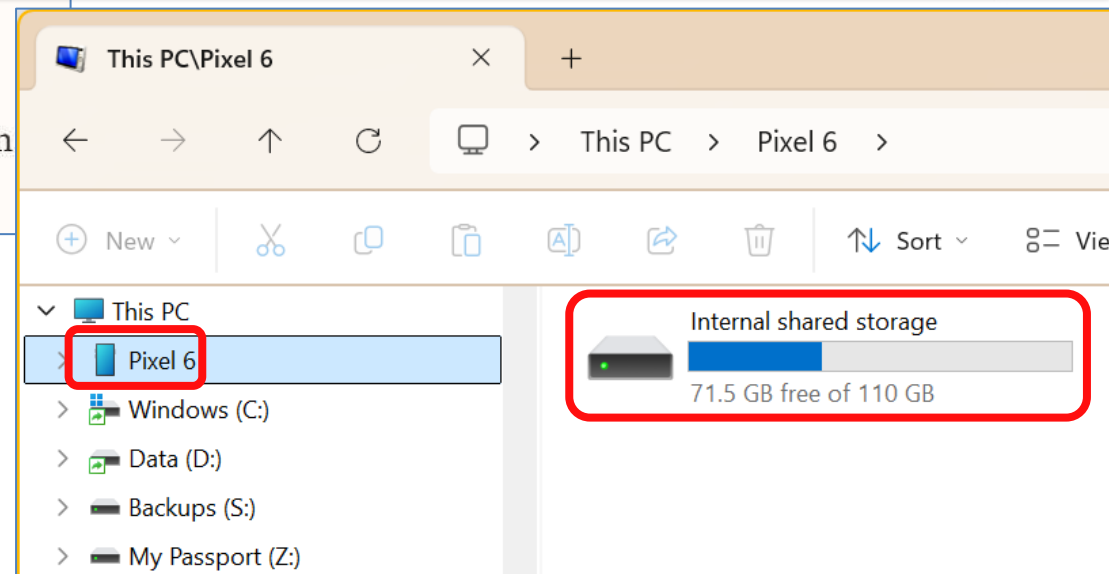
- Go to **Settings** → **System** → **Developer options**.
- Scroll down to the **Networking** section.
- Tap **Default USB configuration**.
- Choose **File transfer / Android Auto** (sometimes shown as "File transfer (MTP)").

Perplexity's answer

- as Alan showed last week

It worked

- plugged Google Pixel 6 into computer
- computer immediately saw it as a device under *This PC* in Windows File Explorer
- could transfer files using Windows File Explorer



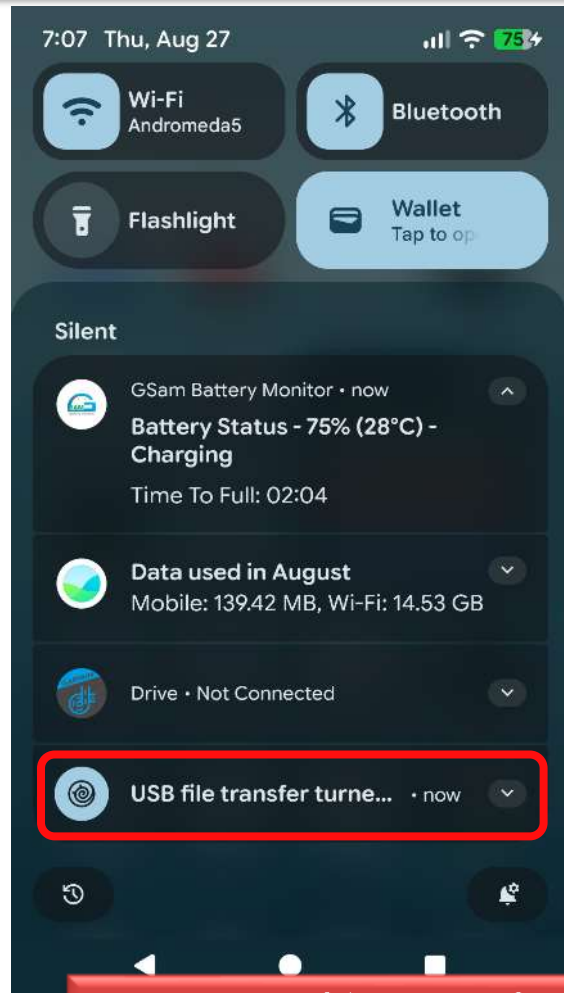
Follow Up Options, options...

- I normally charge my phone using a charger
 - rather than by plugging into a computer
- But...
 - might be in a situation where I only have a computer to charge phone
- Don't want to have to go back to *Developer Options* to do a one-off switch of USB mode back to *Charging*
- No need!

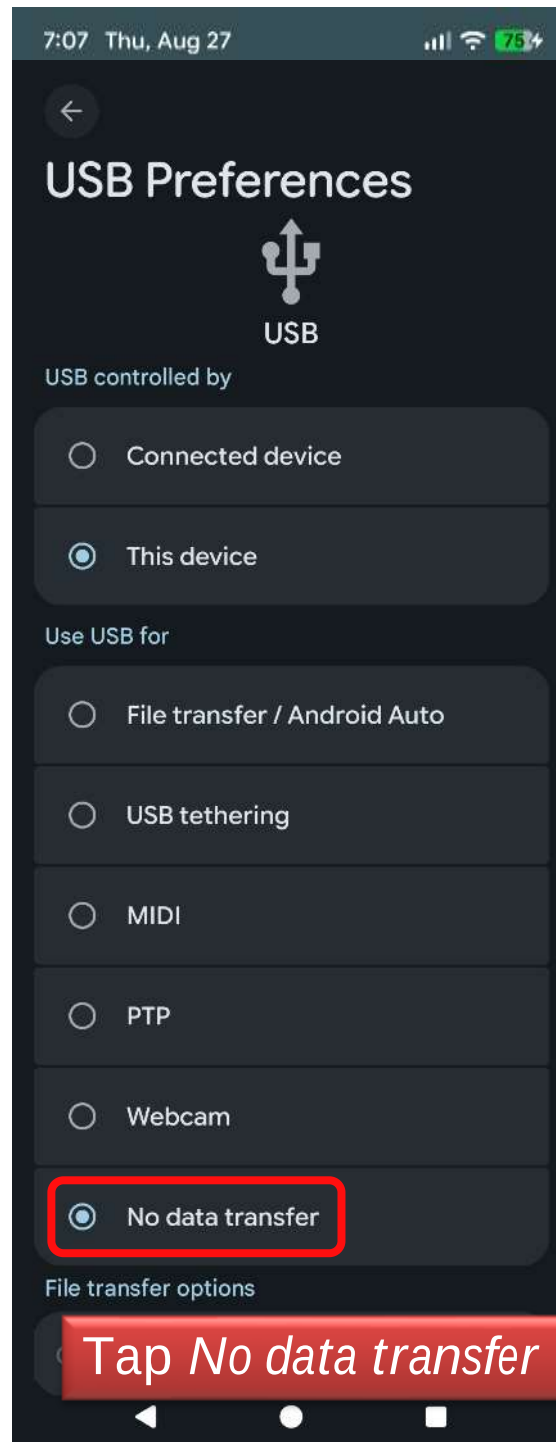
Follow Up

Plugged phone into computer

- pulled down from top of screen
 - to get notifications screen
- now defaulting to *file transfer*



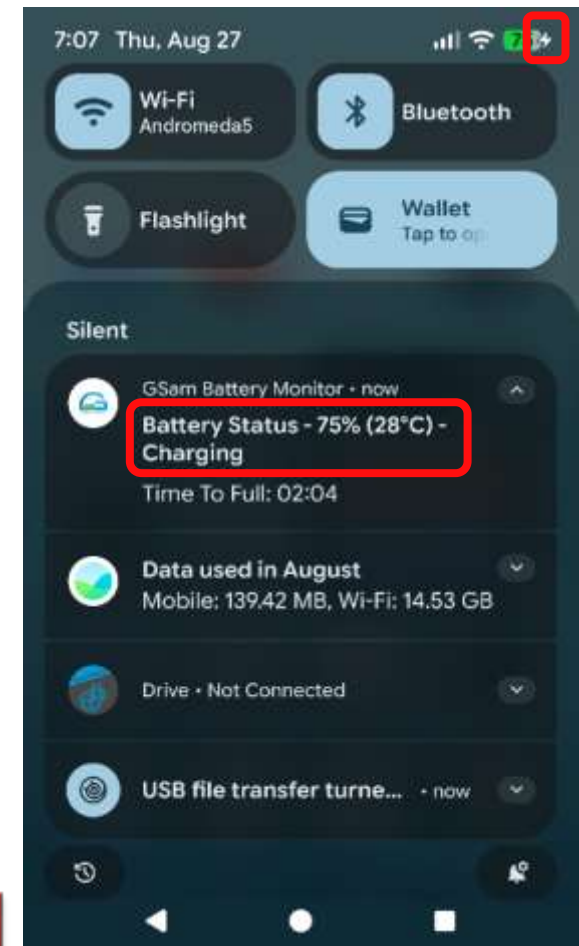
Tap *USB file transfer...*



Tap *No data transfer*

But is this necessary?

- in *File transfer* mode
- still charging!



Follow Up Back to Perplexity

when I am in file transfer mode for USB, the phone still charges at the same time. Is this normal?

Yes — that's completely normal. When your Pixel 6 is in **File transfer** (MTP) mode over USB, it **still charges at the same time**. 👤 androidpolice +1

Why this happens

- **USB provides both power and data.**

A standard USB connection carries:

- Power (5V, and possibly more with USB-PD/fast charging)
 - Data lines for communication (used by File transfer, tethering, etc.)
- So the phone can use the data lines for MTP while simultaneously drawing power to charge the battery. 👤 androidpolice +1

- **“File transfer” is not “power off” mode.**

Selecting **File transfer** / **Android Auto** just tells Android: “Allow the connected device to access my storage.” It does **not** disable charging. In fact, Android’s USB menu explicitly allows **File transfer** + **“Charging connected device”** to be active together; other modes (like USB tethering) are mutually exclusive with File transfer, but charging is not. 👤 androidpolice +1

- **This is the intended behavior on modern Android.**

Documentation and guides for Pixel/Android consistently state that in File transfer mode, “your phone still charges at full speed while it’s active.”

What you should expect

- **Plugged into a PC USB port in File transfer mode:**

- Phone shows as a storage device on the PC.
- Battery icon shows charging (sometimes slower than with a wall charger, depending on the port’s power). 👤 androidpolice +1

- **Plugged into a wall charger:**

- No data mode is negotiated; the phone just charges.
- Your “Default USB configuration” setting doesn’t affect this.

So seeing your Pixel charge while in File transfer mode is expected and correct; there’s nothing wrong with your phone or cable. 👤 androidpolice +1

So, the best configuration:

- use *Developer Mode* to change default mode for USB to *File transfer*
- if you plug into a computer
 - automatically uses file transfer mode
- charges whether plugged into computer or charger

Share

Samsung's Patch Gap

- Samsung's Internet browser has been touted as an excellent chromium based option for mobile users
- However, a bit of recent research has uncovered a security issue that overshadows any convenience of this app.

<https://www.notebookcheck.net/Samsung-Internet-your-monthly-security-patch-never-reaches-it.1372179.0.html>

- Essentially, the Chromium kernel at the heart of the app is so far behind in update to be a serious vulnerability
- If the browser must be used, it's best to not use it for anything essential such as financials, government access, stuff like that.
- A properly updated browser, in addition to Samsung's, should be installed for these kinds of tasks

Stewart Bruce

Share

Vibe Coding – Part 10

Vibe Coding Competition

- The use of vibe coding will be on the honour system
- For those providing entries to the competition there will be two prizes offered:
 1. The most useful product
 2. The best presentation of the development process *

** The project doesn't have to be successful for this portion of the competition – stories of trials and tribulations, and even abysmal failure will be happily accepted*

Scheduled for October 14th



Deadline for Competition Entries

- The competition will be held at our regular monthly meeting on October 14th
- Currently, three entries have been promised
- Time for the presentation for each entry will be based on the number of entries
- Contestants need time to organize their slides to fit the available time for their presentation
- Consequently, the deadline for new entries will be September 30, 2026
- Send brief details of your entry to SuggestionBox@opcug.ca



Review... What is Vibe Coding?

- Vibe coding allows non-programmers to create simple to moderately-complex applications
(e.g. web page, extract text strings from a file, an executable file-and-folder comparison tool)
- Download any required tools
(e.g. Python, C-compiler)
- Tell the chatbot what you want an app to do
- Run the code that is produced
- Refine the prompts based on the results obtained
- Run the revised code – and repeat
- Be patient – but persistent!

VBA (Excel macro) Example

- An Excel spreadsheet records GIC purchases for two people
- His and Hers are GIC's in RRIF accounts
- Joint are GIC's in a joint investment account
- The Canada Deposit Insurance Corporation (CIDC) provides up to \$100,000 coverage on each of these accounts
- If the couple have additional funds to invest, how can they analyze their portfolios to avoid exceeding the coverage amounts?

Add-ins

 f [illegible]

 Projects

Artifacts

</> Code

Upgrade

 Customize

Chats and ta...

 ϕ

 Design

A Alan · Free

Free plan · Upgrade

+

Chat

Cowork

Sonnet 5 Medium ▾



FileEditViewBookmarksToolsWindowHelp

VBA macro for filtering future GIC dates - Claude

VBA macro for filtering futu +

←→|←→|↺↻🏠🔒🔗🔔🔖🔍

claude.ai/chat/2196749e-5b...Search DuckDuckGo

👤🥽JS🖨️🗑️VPN

↓🕒🔄+

Claude

📄🔍

+ New

📁 Projects

🔗 Artifacts

</> CodeUpgrade

🛠️ Customize

Chats and ta...🔧

◦ VBA macro for filterir

🎨 Design

⚙️A Alan · Free📄

VBA macro for filtering future GIC dates ▾

Share

Here's a VBA macro that does what you described:

vb

Sub CreateGICsCurrent()

Dim wsSource As Worksheet

Dim wsTarget As Worksheet

Dim lastRow As Long

Dim targetRow As Long

Dim i As Long

Dim wb As Workbook

Set wb = ThisWorkbook

Set wsSource = wb.Sheets("GICs")

Write a message...

+Sonnet 5 Medium🔊🔊

Claude is AI and can make mistakes. Please double-check responses.

⚙️00☁️

🔄📄🔗Reset🎛️100 %4:13 PM

A red circle is drawn around a small icon of two overlapping sheets of paper, which is the standard symbol for 'copy' in many applications. This icon is located in the top right corner of the code block's container.

Copy
code

FileEditViewBookmarksToolsWindowHelp

VBA macro for filtering future GIC dates - Claude

VBA macro for filtering futu +

←→|←→|↺🏠🔒

claude.ai/chat/2196749e-5b90-4d46-a...

🔔🔖🔍 Search DuckDuckGo

👤🌐JS🖨️🗑️VPN

Claude

📄🔍

+ New

📁 Projects

📦 Artifacts

</> Code Upgrade

🛠️ Customize

Chats and ta... ⚙️

🔍 VBA macro for filterir

🎨 Design

⚙️ A Alan · Free ⌵📄

VBA macro for filtering future GIC dates ⌵

Share

A few notes on assumptions I made, since your description left some things implicit:

- Data starts on row 5** — since row 4 is the header, I assumed the actual GIC data begins on row 5. Adjust the `For i = 5 To lastRow` line if that's not correct.
- Sort range column** — I used `A1:Z` as the sort range's right boundary. You should change `"Z"` to whatever your actual last column is (e.g., `"K"`) so the sort captures all your columns without going too far or not far enough.
- "Today's date" comparison** — I used `Date > Date` (the VBA `Date` function returns today's date with no time component), which compares based on calendar date only, ignoring the current time.
- Worksheet placement** — new `GICs-Current` sheet gets added at the end of the workbook's sheet tabs.

If you let me know your actual last column letter and confirm the data start row, I can tighten this up further.

Write a message...

+Sonnet 5 Medium 🔊🔊🔊

Claude is AI and can make mistakes. Please double-check responses.

⚙️🔇☁️

🔄📏🔄Reset100 %4:23 PM



XML

2028

Processing complete

OK

B	C	D	E	F	G	H	I
Owner	Institution	urchase Da	aturity Da	rincipal (\$	Interest Ra	Interest	aturing (\$)
Hers	TD Bank	#####	#####	5,000.00	5.00	250.00	5,250.00
Hers	TD Bank	#####	#####	6,000.00	4.50	552.15	6,552.15
Hers	TD Bank	#####	#####	30,000.00	5.00	945.75	30,945.75
His	Laurentian	#####	#####	5,000.00	4.50	225.00	5,225.00
His	TD Bank	#####	#####	5,000.00	5.00	250.00	5,250.00

Modify the macro to auto-fit the columns width for Columns B to I. Starting at Row 2, after the value in Col B changes, add a blank line and highlight Cols B-I on this line in yellow. Continue this process to the end of the worksheet.



Sonnet 5 Medium ▾





XML

Microsoft Visual Basic for Applications - ProcessGICs.xlsm - [Module1 (Code)]

Ln 71, Col 1

File Edit View Insert Format Debug Run Tools Add-Ins Window Help

Project - VBAProject

(General) CreateGICsCurrent

```
Sub CreateGICsCurrent()  
  
    Dim wsSource As Worksheet  
    Dim wsTarget As Worksheet  
    Dim lastRow As Long  
    Dim targetRow As Long  
    Dim i As Long  
    Dim wb As Workbook  
  
    Set wb = ThisWorkbook  
    Set wsSource = wb.Sheets("GICs")  
  
    ' Create GICs-Current if it doesn't exist, or clear it if it does  
    On Error Resume Next  
    Set wsTarget = wb.Sheets("GICs-Current")  
    On Error GoTo 0  
  
    If wsTarget Is Nothing Then  
        Set wsTarget = wb.Sheets.Add(After:=wb.Sheets(wb.Sheets.Count))  
        wsTarget.Name = "GICs-Current"  
    Else  
        wsTarget.Cells.Clear  
    End If  
  
    ' Copy header row (Row 4) from GICs to Row 1 of GICs-Current  
    wsSource.Rows(4).Copy Destination:=wsTarget.Rows(1)  
    targetRow = 2  
  
    ' Find last used row in GICs  
    lastRow = wsSource.Cells(wsSource.Rows.Count, "E").End(xlUp).Row  
  
    ' Loop through each row, checking Column E for a future date  
    For i = 5 To lastRow ' assuming data starts after header row 4  
        If IsDate(wsSource.Cells(i, "E").Value) Then
```


LibreOffice Calc Version

- Calc uses LibreOffice Basic
- This like VBA but sometimes has more complex syntax, such as:

```
oDispatcher = createUnoService  
("com.sun.star.frame.DispatchHelper")
```

- Chatbots seem to have some difficulty with this scripting language
- It can take several tries to identify working code
- Sometimes it helps to tell the bot specifically what approach to take!

This doesn't set the optimal widths. Can you modify the macro to copy the columns from GICs to GICs-Current using the original column widths? This would avoid having to reset the widths.

Alan, yes — copying the **original column widths** from *GICs* into *GICs-Current* is absolutely the right solution. It avoids the entire mess of Calc's unreliable autofit behavior and gives you a deterministic, stable result every time.

Calc *does* let us read and write column widths directly, and this works perfectly.

Below is your **fully updated macro**, now including:

- Create or clear **GICs-Current**
- Copy header row (Row 12)
- Copy all rows with future dates in Column I
- **Copy column widths from GICs → GICs-Current**
- No autofit needed

This version is clean, predictable, and avoids all the dispatch quirks.

Modify the macro so that the yellow highlighted lines are added after the sorts

Alan, this is a smart change — and it actually makes the macro *cleaner*.

Right now, the macro inserts yellow separator lines **during the row-copying phase**, but you want them **after the sort**, which is the correct approach because:

- Sorting rearranges rows
- Any separator lines inserted *before* sorting will end up in the wrong places
- The grouping logic must run **after** the final sorted order is established

Vibe Coding is Simple

- Do you have a task that can be automated?
- Are you going to give vibe coding a try?
- Will you have an entry for our Vibe Coding Competition in October?
- There's still lots of time to create a macro, an app, a script, a website, or...

Vibe Coding Competition

- The use of vibe coding to create a system
- The use of vibe coding to create a system

Scheduled for October 14th

Entries by September 30th





Which 2FA to choose

- Changing security setting for an e-mail address
- Given option for 2FA (*two-factor authentication*)
 - another e-mail address
 - phone number for two factor authentication
- Is one better than the other?
 - other than convenience

Two-Factor Authentication

Simple...right?





What is *two-factor authentication*?

a.k.a. 2FA

a.k.a. MFA: Multi-factor authentication

- Factors used for authentication
 1. **something you know** (e.g. username & password)
 2. **something you have** (e.g. smartphone or email address)
 3. **something you are** (e.g. fingerprint or facial scan)
- 2FA requires two of the above
 - most commonly 1 and 2
- Common implementations of **something you have**
 - one-time code sent to a phone as a text message
 - one-time code read out to you on a phone (good if using a landline)
 - one-time code sent to an email address
 - one-time code sent to an authentication app on your phone
 - negotiation with a *passkey* app
 - negotiation with smartcard or FIDO security fob (*I don't cover this*)
 - very strong authentication but not commonly available
 - challenge to input values on a *bingo card*
 - very rarely used but available with Canada Revenue Agency



No two-factor authentication

- If someone is trying to sign in as you
 - just need **something you know**
 - typically username and password
- Hard to successfully compromise as long as:
 - you use a strong password
 - you protect your password with a good password manager
 - you are careful to avoid vulnerabilities like shoulder surfing
 - you don't reuse passwords at multiple sites
 - you only sign in to sites with encrypted sessions (https):
 - may have to click in address bar and hit left arrow to see *https*:
 - but it's a mess!
 - you are careful not to sign in at look-alike websites
 - **beware: just being on encrypted session doesn't say *who* you're connect to**
 - the website is not hacked & user account information exfiltrated
 - but even if hacked, not usually a problem if you use strong password
- (may be) Easy to compromise
 - ***if you don't follow all above***



Code sent to phone as text

- One-time setup with website
 - website asks for a phone number to use to text one-time codes
- When you sign in at website
 - you enter username and password
 - website sends a *time-limited* one-time code as text to your phone
 - you enter one-time code at website
 - website checks that one-time code matches what they sent you
- If someone is trying to sign in as you
 - they still need your username and password
 - they need one-time code
 - one-time code only valid for (typically) 10 minutes
- Quite hard to compromise *as long as:*
 - you don't lose your phone
 - phone protected with strong authentication
 - your phone provider won't transfer your phone number to an attacker's phone
 - one-time code sent to attacker's phone



Code sent to email address

- One-time setup with website
 - website asks for an email address to use for one-time codes
- When you sign in at website
 - you enter username and password
 - website sends a *time-limited* code to your email
 - you enter code at website
 - website checks that code matches what they sent you
- If someone is trying to sign in as you
 - they still need your username and password
 - they need one-time code
 - one-time code only valid for (typically) 10 minutes
- Very hard to compromise
 - *as long as you protect your email address really well*



Authentication app

- One-time setup with website
 - website shows a QR code or secret key
 - you scan code or enter secret key into authentication app
 - website and authentication app cryptographically linked
- When you sign in at website
 - you enter username and password
 - website asks for *time-limited* one-time code generated by authentication app
 - you enter one-time code provided by authentication app at website
 - or *tap to approve* in authentication app (push approval)
 - website generates one-time code
 - using same algorithm as used by authentication app
 - if website one-time code matches authentication app code: signed in
- If someone is trying to sign in as you
 - they still need your username and password
 - they need one-time code (shoulder surfing?)
 - one-time code only valid for (typically) 60 seconds
 - if authentication app uses *tap to approve* (push approval)
 - one-time code is never displayed: *defeats shoulder-surfing*
- Very, very hard to compromise

DEEP DIVE



Passkeys

- One-time setup with website
 - your device sets up an encryption key pair
 - public key goes to website
 - private key stays on device
- When you sign in at website
 - website sends *challenge* to your device
 - you unlock your passkey with biometrics or PIN
 - your device signs website's challenge using private key
 - website verifies the challenge
- You never type in password for website
 - if a site is spoofing a legit site, passkey fails
- Very, very hard to compromise

DEEP DIVE



Bingo card

- One-time setup with website
 - unique bingo card created for your account
- When you sign in at website
 - you are challenged to input 2-letter codes
 - e.g. *row 5/column C* , *row 1/column F* , and *row3/column A*
 - website verifies your answer matches their copy of bingo card
- If someone is trying to sign in as you
 - they still need your username and password
 - they need your bingo card
- Very hard to compromise *as long as:*
 - *you keep your bingo card secure*
 - maybe store in notes field in your password manager

DEEP DIVE



Bottom line

- Any form of two-factor authentication is *waaaaaaay* stronger than not having two-factor authentication
- Think about how your authentication is most likely to be compromised
 - which 2FA protects against that?
- Having said that...



In order of strength (probably)

- Can help with some careless behaviours such as password reuse, weak passwords, accidental password disclosure
 - passkey
 - authentication app
- Less helpful in case of careless behaviours (but still *waaaaaay* better than no 2FA)
 - text message to phone
 - email message
 - bingo card

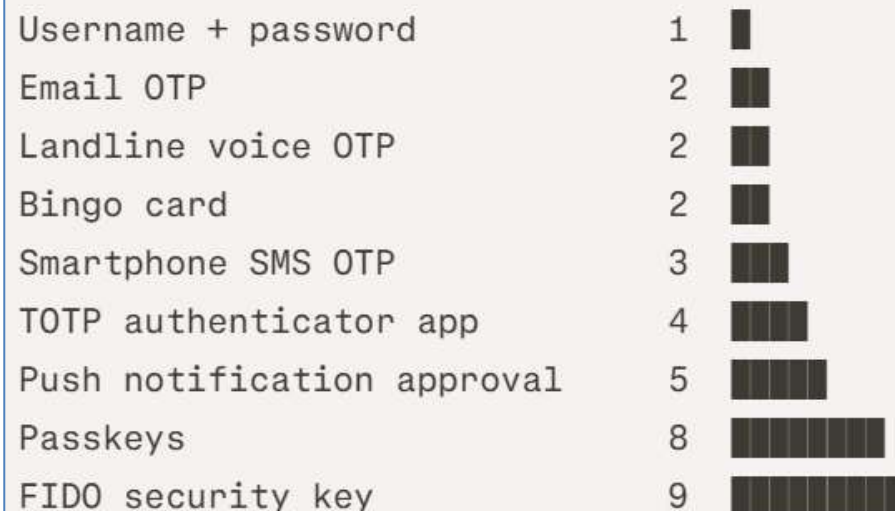


Perplexity ranking relative strength

create a graph showing relative strength of various forms or authentication including:

- just a username and password
- one-time code sent to a smart phone
- one-time code read out to you on a landline
- one-time code sent to an email
- authentication app using TOTP
- authentication app using push notification
- authentication using passkeys
- authentication using a FIDO security key
- authentication using a bingo card

Below is a simple relative-strength graph based on common security guidance: passwords are weakest, SMS/voice/email codes are still weak because they can be intercepted or phished, TOTP is better, push approval is stronger than codes but still phishable, and passkeys/FIDO security keys are strongest because they're phishing-resistant. A "bingo card" method is unusual and not a standard modern authentication factor, so I've placed it near the weak end as a paper-based secret that is easier to copy, steal, or photograph than cryptographic methods.



DEEP DIVE



Stand-alone 2FA

- Some second factors don't require Internet or phone access
 - list of one-time codes
 - Google offers list of 10 one-time codes
 - protect these: maybe notes field of password manager
 - Bingo cards
 - protect these: maybe notes field of password manager
- Authentication apps *may* require Internet access
 - Internet not required
 - manually enter code shown in authentication app into website
 - codes generated separately on website & authentication app
 - make sure your device has clock set correctly
 - avoids problems with not having roaming while out-of-country
 - Internet still required
 - apps where you *tap to approve* in authentication app (push approval)

DEEP DIVE Personal preference

- Multiple different 2FAs for any one service
 - backup(s) in case main one fails for any reason
 - try for backup means of 2FA without have same limitations
- One-time code sent to an email address for main use
 - highly likely to always be available on any device even those not owned by me
- Make sure you use strong password
 - on any email address used as second factor
 - on phone used for 2FA (text or authentication app)
 - password manager (one-time codes or bingo card)
 - and make sure password manager is always available
- Make sure you are not caught in circular hell
 - email “A” protected by 2FA using email “B”
 - email “B” protected by 2FA using email “A”

DEEP DIVE



Caution

- Will your second factor always be available?
 - passkeys & authentication apps typically tied to a single device
 - what if you lose your phone—or it is not with you
 - problem if text to phone or authentication app
 - what if you lose access to your email?
 - problem if code to email
 - what if travelling abroad?
 - problem if don't have roaming
 - problem if using local SIM card (different phone number)
 - don't have access to your bingo card
 - can you set up passkeys/authentication apps on multiple devices?
- Mitigations
 - set up **multiple** second factors
 - turn off second factor when necessary, e.g. traveling abroad

DEEP DIVE



Caution

- Setting up multiple 2FAs carries multiple risks
 - *each* 2FA is available for an attacker to try
- Bottom line:
 - *you* must protect *every* method used for 2FA as best you can
- *Personal view:*
- Multiple 2FAs to avoid being locked out of accounts
 - outweighs risks of having single 2FA
 - exception:
 - any account you can get reset by service such as bank account
 - forget about Google, Amazon, Microsoft, etc.
- Document *all* uses of 2FAs in your password manager
- *You* have to do *your own* risk assessment



Any other:
Questions
Comments
Shares?



The
Q&A
cupboard
is
bare!



OPCUG IDEA GENERATOR



Anything computer-related

OPCUG IDEA GENERATOR



Hardware/software question
Share on topic of interest
Details of a useful program
Interesting YouTube video/channel
Basic computer usage
Recommended Loonie Link
Smartphone/tablet app
Operating system tweak
Windows, Linux or Android

Anything computer-related

September Meeting



Artificial Intelligence (AI): Fun and Useful Tips

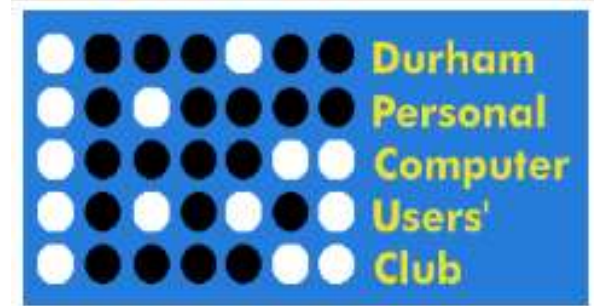
Chris Taylor (OPCUG)

September 9, 2026
7:30 – 9:30 pm*

* Bonus, two-hour presentation!



September Meeting

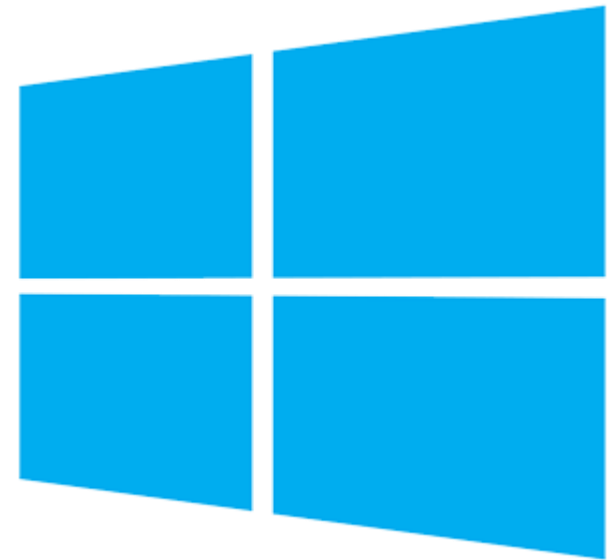


Windows 10 End-of-Life

Alan German (OPCUG)

September 10, 2026

7:00 pm



[https://us02web.zoom.us/j/83492096183?
pwd=Q3phQnBxR1hIUe9ZWWsrQjITSmQzUT09](https://us02web.zoom.us/j/83492096183?pwd=Q3phQnBxR1hIUe9ZWWsrQjITSmQzUT09)



No Q&A on
September 9
(Monthly Meeting)



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

SuggestionBox@opcug.ca