



**Alan German & Chris Taylor**  
**Ottawa PC Users' Group**

*September 3, 2025*



# What computer should I buy?

- At the end of last week's the Q&A session, the following question was asked:
  - I am looking for a computer
  - If anyone has any suggestions, I'm happy to hear!





# Two-hour presentation...



## How to Buy a PC

Cumberland  
Saturday Nov 29, 2025 at 2:00pm

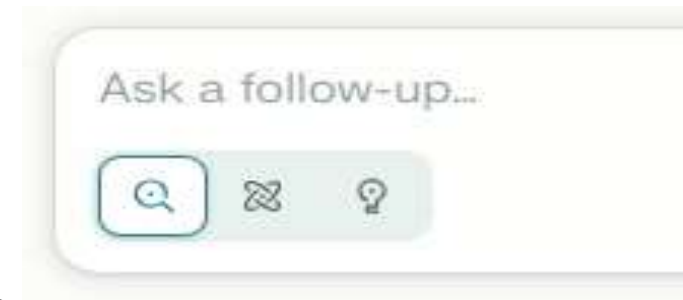
When buying a PC, you are faced with a lot of choices, laptop or desktop, how many cores in the processor, Intel or AMD processor,...

**Registration opens on Monday, September 29, 2025 - 10:00am**



# Consult an AI Chatbot

- Let's try Perplexity AI  
<https://www.perplexity.ai>
- Ask it an initial question:  
*Can you help me select a new computer to purchase?*
- Use the follow-up feature to ask for more specific information
- For example, (for me) it suggested machines for both Windows and Linux
- Next prompt: *"I only want to run Windows on the new machine"*
- And so on...



Can you help me select a new computer to purchase?

Answer Images Sources · 15 Steps

Memory

Uses USB flash drives and command-line tools for...

Memory

Uses Windows 10 and Linux for disk utilities and syste...

reddit

Linux Laptop Recommendation 2025 ...

ZDNET

The best Linux laptops you can buy: Expert tested for ...

To select a new computer, consider options that support both **Windows and Linux**, offer reliable hardware for development, and provide excellent port selection for USB devices and data transfers. Here are tailored recommendations based on your preferences and common use cases.

tools +1 reddit +1

### Laptop Recommendations

- **Lenovo ThinkPad T14s Gen 6 (AMD/Intel):** Known for Linux compatibility, robust construction, and customizable configurations. Features powerful CPUs (Intel Core Ultra 7 or AMD equivalents), up to 32GB RAM, and up to 1TB SSD storage. The anti-glare 14" IPS display and long battery life make it ideal for dual-boot and extended use.

Ask a follow-up...

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Ask a follow-up...


*“Here are tailored recommendations based on your preferences and common use cases”*

**I told you that AI knows everything (about you)!**

*“Here are tailored recommendations based on your preferences and common use cases”*

**I told you that AI knows everything (about you)!**

How did you know my preferences and common use cases?

Your preferences and common use cases were identified by reviewing stored memory data from previous interactions. This included details about your use of USB flash drives, command-line tools for data transfers, Macrium Rescue, backup software, file management on Linux Mint, dual-booting Windows and Linux, interest in disk utilities, and cross-platform development.  tools +5

## Laptop Recommendations

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  - **Dell XPS 13 Developer Edition:** Comes pre-loaded with Ubuntu, high-resolution display (up to 4K), Intel i7 processor, and up to 16GB RAM. Slim and portable, with solid build quality. [youtube](#) [tutorialgrove](#)
  - **System76 Oryx Pro:** Built for Linux with options up to 64GB RAM and dedicated NVIDIA
- 

## Desktop and Mini PC Suggestions

- **GMKtec M5 Plus Mini PC:** Affordable, compact, and easily upgradeable with AMD Ryzen 7/9, up to 32GB RAM, and 1TB SSD. Good port selection for USB devices and dual LAN, making it a strong choice for custom Linux setups or networking tasks. [techradar](#)
- **Framework Laptop:** Highly modular, easy to repair and upgrade, supports a wide range of operating systems including Linux and Windows. Ideal if customization and longevity are priorities. [youtube](#)

## Essential Features to Consider


- **Multiple USB Ports:** All recommended models offer several USB-C and USB-A ports for flash drives and accessories. [techradar](#) [youtube](#)
- **Dual-Boot Compatibility:** ThinkPad and Dell XPS lines are well-known for easy dual-boot setups with secure boot options. [zdnet](#) [youtube](#)
- **Reliable Hardware for Development:** All models support major cross-platform development frameworks such as Flutter, React Native, and .NET MAUI. [demskigroup +2](#)
- **Upgradable RAM and Storage:** Framework and GMKtec M5 Plus stand out if future upgrades and repairs are important. [youtube](#) [techradar](#)

## Price Range

- **Lenovo ThinkPad T14s:** Typically around \$1,300–\$1,500 for well-equipped versions. [zdnet](#)
- **System76 Oryx Pro:** Starts at \$1,500 and [↓](#)s by configuration. [tutorialgrove](#) [youtube](#)

# I only want to run Windows on the new machine

 Answer  Images  Sources · 20  Steps

 Tom's Guide

The best Windows laptops in 2025: our top picks

 TechRadar

The best Windows laptop in 2025: our picks for every...

 TechRadar

The best laptops 2025 tested, reviewed and rated

 Forbes

Best Desktop Computers 2025

For a **Windows-only machine**, leading choices in 2025 are premium, mainstream, and budget-friendly devices that excel in Windows performance, reliability, and port selection. [tomsguide +3](#)

## Top Windows Laptops (2025)

- **Dell XPS 13 (2024/2025):** Known for light weight, fast performance (Snapdragon X or Intel chips), strong battery life, and elegant design. Includes a solid selection of modern and legacy ports. [techradar +1](#)
- **Acer Aspire Go 15 / Aspire 5 / Swift 14 AI:** Great for those seeking value—reliable performance, sturdy build, and a wide range of configurations under \$500–700. Good keyboard and screen, with the Aspire series offering multiple USB options. [pcmag +3](#)
- **Microsoft Surface Laptop 13-inch:** Premium build, long battery life, and a portable design

## Let's try to be really specific...

I use E-mail extensively with Thunderbird and surf the web with Vivaldi and Firefox. I write 1-2 page newsletter articles with text and graphics on simple, one-column page layouts. I use spreadsheets with formulae for mathematical and logical operations, and create macros for cell, row and file handling. I frequently create and modify PowerPoint slides. I do simple edits, mainly cropping and resizing digital image files, and clipping the start and end of both audio and video files. I occasionally program in Python and C++. What computer would be best suited to my specific uses?

 RTINGS.com  
The 5 Best Windows Laptops of 2025 -...

 techgeekbuzz.com  
10 Best Laptops for Programming in 2025

 youtube  
TOP 5: Best Desktop Computers 2025 [Which...

 PCMag  
The Best Work Laptops We've Tested for 2025 -...

The **Lenovo ThinkPad X9 15 Aura Edition** and **Dell XPS 15** stand out as the best Windows computers for your specific tasks in 2025, combining strong productivity, multimedia, and programming capabilities. [rtings +1](#)

### Why These Models Suit Your Workflow

- **E-mail & Web Browsing:** Both have fast Wi-Fi 6E/7, long battery life (Lenovo up to 15 hours, Dell around 10 hours), and comfortable keyboards for writing emails via Thunderbird and browsing with Vivaldi or Firefox. [techgeekbuzz +1](#)
- **Newsletter Creation & Office Work:** The Lenovo ThinkPad X9 and Dell XPS 15 feature high-resolution 2.8K or 4K displays, ideal for text, graphics, and simple one-column layouts. Both pair smoothly with Office, LibreOffice, and graphics applications for layouts and embedded images. [rtings +1](#)
- **Spreadsheets & Macros:** Smooth Excel, LibreOffice, and macro support thanks to fast Intel Lunar Lake or Core i7 chips. and at least 16GB RAM for handling large workbooks and

## Suitable Desktop Options

- **Dell XPS Desktop** and **HP Envy**: Great for large spreadsheets and fast rendering during multimedia work, with robust Intel i7/i9 chips, RTX graphics, and extensive expansion capability. [youtube](#)
- **Lenovo Legion Tower 5i**: Best value for money, excellent for both productivity and occasional development work. [youtube](#)

## Budget Pick

- **ASUS Vivobook 16 M1605**: Recommended if looking for a lower-cost workhorse that can manage your described tasks reliably, though the display and multimedia experience are less premium. [rtings](#)

These computers offer the **smoothest experience** for productivity (Thunderbird, Office, PowerPoint, Vivaldi/Firefox), media editing, and programming, ensuring versatility for all your major workflows. [youtube](#) [techgeekbuzz +1](#)

# What are the main differences in hardware between the laptops that you are recommending?

Answer Images Sources · 10 Steps

- RTINGS.com: Dell XPS 13 (2024) vs Lenovo ThinkPad X9 15...
- Laptop Mag: Lenovo ThinkPad X9-15 Gen 1 Aura Edition review -...
- Gadgets 360: Compare Lenovo ThinkPad X9 15 Aura Edition vs Dell...
- VERSUS: i5-12500H vs Lenovo ThinkPad X9 15 Aura...



The main hardware differences between the **Lenovo ThinkPad X9 15 Aura Edition** and the **Dell XPS 15 (2025 models)** are as follows:

Aspect	Lenovo ThinkPad X9 15 Aura Edition	Dell XPS 15
Processor	Intel Core Ultra 7 258V (strong single-threaded, AI NPU)	Typically Intel 12th/13th Gen Core i7/i9 (higher multi-threaded perf)
RAM	Up to 32GB	Up to 64GB (configurable)
Storage	Up to 2TB SSD	Up to 2TB SSD
Display	15.3-inch 2880 x 1800 120Hz	15.6-inch 1920 x 1200 or 4K 60Hz or higher IPS

# And, what are the prices for these computers?

Answer Images Sources · 11 Steps

 Laptop Mag  
Lenovo ThinkPad X9-15  
Gen 1 Aura Edition review

 PCMag  
Lenovo ThinkPad X9 15  
Aura Edition Review

 RTINGS.com  
Lenovo ThinkPad X9 15  
Aura Edition (2025) Lapto...

 Lenovo ThinkPad X9 1...  
Lenovo ThinkPad X9 15  
Aura Edition Intel Laptop,...

The prices for the Lenovo ThinkPad X9 15 Aura Edition in 2025 are as follows:

- The **base model** starts around **\$1,345**, which includes an Intel Core Ultra 5 226V processor, 16GB RAM, 256GB SSD, and a non-touch OLED display.
- A more typical configuration suitable for your use case, with an Intel Core Ultra 7 258V, 32GB RAM, 1TB SSD, and a 15.3-inch 2880x1800 120Hz OLED touchscreen, is priced around **\$2,024 to \$2,069**.
- The top-end model with improved CPU (Core Ultra 7 268V), 32GB RAM, and 1TB SSD can go up to about **\$2,686**. [laptopmag +3](#)

Regarding the Dell XPS 15, prices typically range from about **\$1,500 to over \$2,500** depending on configuration, with higher-end builds featuring Intel Core i7/i9 processors, up to 64GB RAM, and optional dedicated Nvidia GPUs. Precise pricing for the latest Dell XPS 15 configurations can vary by retailer and configuration specifics. [rtings +1](#)

In summary, both laptops start in the mid-\$1,300 to \$1,500 range but can exceed \$2,000 with high-end specs important for demanding productivity and multimedia tasks. The ThinkPad X9



# Banking and Browsers

- I bank online via an HP laptop using the Brave browser
- A few times now, Simplii Financial has given me an error message when trying to login: "#0001" (whatever that means).
- Simplii tech support asked me if I was using a VPN. I'm not
- She suggested that the error is most often associated with using a VPN (Simplii doesn't allow access via VPN)
- I checked the settings on Brave by clicking on the shield icon on the browser (is that sufficient?)
- I saw a message to the effect that I could "try a 7 day VPN trial", so I'm assuming no VPN was invoked
- The problem was resolved by changing to Google Chrome
- Has anyone else experienced this issue with Brave?



## Browser Related?

- On a few occasions, "try a different browser" has been the only solution that worked for me
- With Alterna banking, I had a problem using Chrome, where I would get several email notifications when I signed in (rather than the one I was expecting)
- I switched to Edge, and there was no problem – just the one expected notification
- I tried to get it to work properly with Chrome to no avail
- I have had some issues using one browser to access my photo club's website and no problem with another

Share

# Is that downloaded file safe?

- Frequently asked at Q&A
  - *How do I know that a program I download from the Internet is safe?*
- Good question!
  - everyone should consider that question
  - how do I know the program won't:
    - compromise my computer
    - steal my data
    - steal the sign-in credentials for my bank
- All about trust
  - *how can I trust an unknown entity?*



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## Source?

- The more known an vendor/software author is
  - the more I will trust them...*probably*
- File obtained from major vendors
  - Microsoft, Google, Apple, Adobe, ...
  - **almost certainly not malicious**
- File obtained from major download sites
  - Softpedia, FileHippo, MajorGeeks, Softonic, ...
  - **probably not malicious** & usually checked for malware at site
- File obtained from lesser known/unknown sites?
  - Sam's software, UtilityHaven.com, PhotoEditor.org, ...
  - **who knows???**

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## Major vendor

- Files I get from Microsoft, Google, Adobe, etc.
  - I can probably get way with not checking at all
  - I generally do cursory checks
    - make sure I am downloading from the vendor's own site
    - usually I check the file at VirusTotal



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# Major download site

- Good reputation
  - but they *are* hosting programs from **others**
- I presume they will
  - check for viruses
  - not host malicious programs
- May be foolish of me to assume that!
- Extra checks **always** warranted
  - I always check the file at VirusTotal



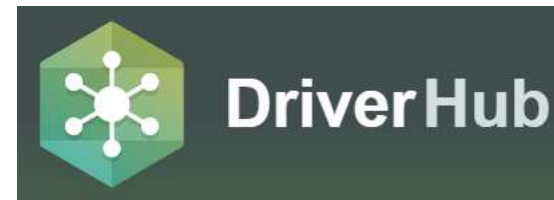
Share

# Lesser-known/unknown site

- Multiple checks *every* time
  - I always check the file at VirusTotal



I have never heard of any of these



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# How to check

- Reputation checks
- Download from trusted locations
- Check for malware
- Integrity checks

Share

# Checking reputation

- I like Perplexity.AI
- Multiple searches for clues
  - the more unknown the more searches are prudent
- Ask trusted people
  - OPCUG Q&A
  - OPCUG Member Forum
    - **members only**
  - may not be enough
  - may not be timely

The screenshot shows a search result for the query "Is 'Phoenix Customizer' safe". The page features a navigation bar with "Answer", "Images", "Sources - 8", and "Steps". Below the navigation bar, there are four source cards: "computersluggish" (How To Protect Windows 11 From Viruses - ...), "Phoenix Customizer 1.1... Beta - Portable4PC", "Uptodown" (Download Phoenix Customizer 1.0.0.0 for...), and "OlderGeeks.com Free..." (Browsing Appearance and Customization - ...). The main content area contains a paragraph stating: "Phoenix Customizer is generally considered safe. It is a lightweight, portable utility for customizing and tweaking Windows 10 and Windows 11, allowing users to personalize themes, icons, menus, and other visual elements without installation. The software is free, clean from bloatware, and well-reviewed by users on various software distribution sites. There are no significant security warnings about it, although like any customization tool, users should download it from official or reputable sources to avoid tampered versions. It has a small system impact and provides a user-friendly interface with features like custom folders, taskbars, floating widgets, and context menu modifications." Below this paragraph is a summary box: "In summary, Phoenix Customizer is safe to use for personalizing Windows, provided it is obtained from trusted websites and users exercise normal caution with any system-level customization software." At the bottom of the page, there is a "Related" section with five questions, each followed by a plus sign: "Is Phoenix Customizer hosted on official sites like ComputerSluggish or Uptodown", "What antivirus detections or SHA256 checks exist for Phoenix Customizer", "How does the portable RAR beta differ from the MSI release in safety", "Could Phoenix Customizer modify system files that risk Windows stability", and "Are there user reviews or forum reports of malware or unwanted changes".

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# Download from trusted location

- Many files are available from 3<sup>rd</sup> party sites
- *Ideally*, download from original company's site
- If that's not possible, download from *official* mirrors
  - site specifically stated by original company as a source



Does author's site say **Major Geeks** is an official mirror?

If not available through original company's site or official mirror, be *really* careful

- *extra checks for sure*

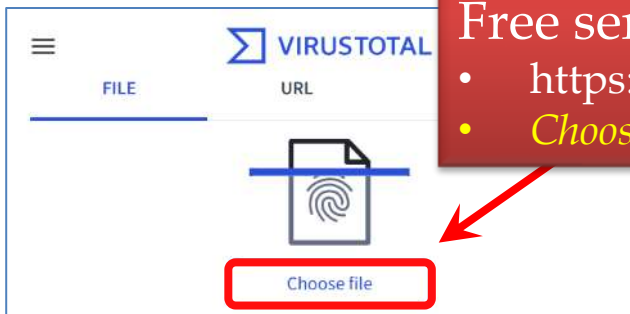
Share

# Malware check at VirusTotal

Free service from Google: scans files for malware

- <https://www.virustotal.com>
- *Choose file*: whatever you downloaded – .exe, .zip, ...

**Takes only a couple of minutes – do it!**



What you want to see

Reanalyze



No security vendors flagged this file as malicious

Reanalyze

Similar

More

0db9b2c5bc1768587dd5b54753a74cf1e8b3b2f5108a...

Size

Last Analysis Date

1 year ago



exiftool.exe

8.50 MB

peexe runtime-modu

But last scanned 1 year ago



0db9b2c5bc1768587dd5b54753a74cf1e8b3b2f5108a02d9400a1db79f6b4a42

Sign in

Sign up



No security vendors flagged this file as malicious

Reanalyze

Similar

More

0db9b2c5bc1768587dd5b54753a74cf1e8b3b2f5108a...

Size

Last Analysis Date

a moment ago



exiftool.exe

8.50 MB

peexe runtime-modules overlay direct-cpu-clock-access

Share

# What you don't want to see!

Reanalyze

3 / 59

3/59 security vendors flagged this file as malicious

Reanalyze

Last Analysis Date: 1 month ago

Last scanned 1 month ago

Not well-known security vendors

- false positives?

Ikarv Pro	Win32.A.DetectMalware	Trelix-ENG	ArtemisFE64DC841P5F
VirIT	Win32.Cheburgen-A	Acronis (Static ML)	Undetected
AlmLab-V3	Undetected	Alibaba	Undetected

1 / 60

1/60 security vendor flagged this file as malicious

Last Analysis Date: 1 minute ago

Still one security vendor thinks it's malware

VirIT	Win32.Cheburgen-A	Acronis (Static ML)	Undetected
AlmLab-V3	Undetected	Alibaba	Undetected
AlCloud	Undetected	Antiy-AVL	Undetected
Acric-Wolf	Undetected	Avast	Undetected
AVM	Undetected	Avira-ScanCloud	Undetected

Probably false positive

- don't think I would recommend VirIT!

Share

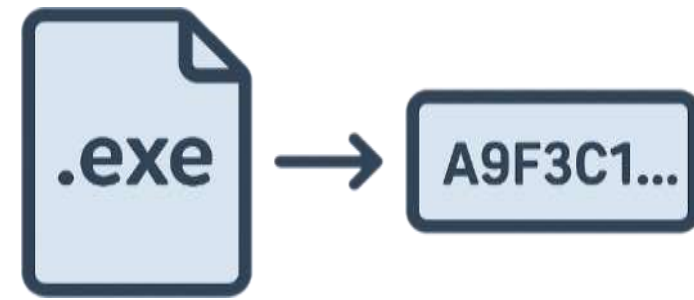
# Integrity checks

- Has the file been modified since created by author
  - file hashes
  - digital signatures
- Most important if obtained anywhere except original author's/publisher's site



Share

# File hashes



- Digital fingerprint for a file
  - hash of any file is tiny: 64 bytes or less
- Verification of file's integrity to detect tampering
- Vendor:
  - takes hash of file they create
  - list the hash on their website
- Anyone:
  - check the hash of a file
  - compare to the hash published at vendor's website
  - *any* change in file will result in different hash value
- If the hash is different than what is shown on vendor's site, it has been modified: *delete it*

Share

# OpenHashTab

 File hashing and checking shell extension




- Handy shell extension to File Manager
  - calculate file hashes
  - check files at VirusTotal
- <https://github.com/namazso/OpenHashTab>

Lots of programs can calculate file hashes

- *OpenHashTab is only one I know of that can also check files at VirusTotal*

Share

# Practical example: file hashes

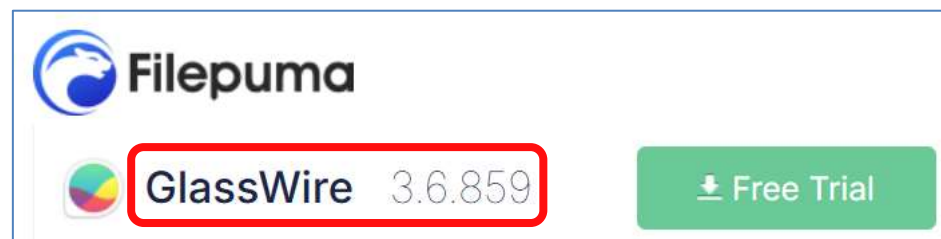


The screenshot shows the GlassWire Software Changelog page. It features the GlassWire logo and the title "GlassWire Software Changelog". Below the title, it says "See what's new or changed in GlassWire software updates." There are two version entries: "Version 3.7.880 - (August 27, 2025)" and "Version 3.6.859 - (July 17, 2025)". Each entry has a "Download" link. The link for version 3.7.880 is highlighted with a red box, and the link for version 3.6.859 is also highlighted with a red box. The changelog lists various updates and fixes for each version.

Link to current release

- had a problem with current release
- wanted to uninstall current and install previous version

No download link for previous version



The screenshot shows the Filepuma website. It features the Filepuma logo and the text "Filepuma". Below the logo, there is a search bar containing "GlassWire 3.6.859". To the right of the search bar is a green button with a download icon and the text "Free Trial".

3<sup>rd</sup> party download site had previous version

- *can it be trusted?*
- *has it been modified to inject malicious code?*

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# After installing OpenHashTab

Right-click file downloaded from Filepuma

- *Properties*

**GlassWire Software Changelog**  
See what's new or changed in GlassWire software updates.

**Version 3.7.880 - (August 27, 2025)** [Download GlassWire 3.7.880](#)

Hash SHA-256: CC310EDF690C943E190B2690961E76555E2335285A727FA62000CA123715300

- Added support for monitoring running applications with no network activity in the GlassWire Protect section.
- Added ability to export network scanner results to a CSV file.

GlassWire published SHA-256 hash

- **3DCD8764E6DB4F15033789E3308907A35F1B3B05CBE12ACA39EC63F0C9CF**

**GlassWire Software Changelog**  
See what's new or changed in GlassWire software updates.

**Version 3.6.859 - (July 17, 2025)**

Hash SHA-256: 3DCD8764E6DB4F15033789E3308907A35F1B3B05CBE12ACA39EC63F0C9CF

- Added directional firewall blocking for applications (incoming/outgoing).
- Removed GlassWire Score from the GlassWire Protect section.
- Restricted blocking of GlassWire components to prevent app issues.
- GlassWire Protect firewall access limited to Premium users.
- Fixed translations across multiple languages.
- UI Improvements:

Algorithm	Hash
MD5	47F51C1866B83EC62B5EB1EEA5B5D32E
SHA-1	9641F070BA2D9025B8033B32A622C760DF5B1ED
SHA-256	28416440A7DE4A2AB078A3BAFE908FBDEAB836B
SHA-512	1BECFABA7E9A155FBAAG25B1819DF68599C3191

SHA-256 hash of downloaded file *doesn't match*

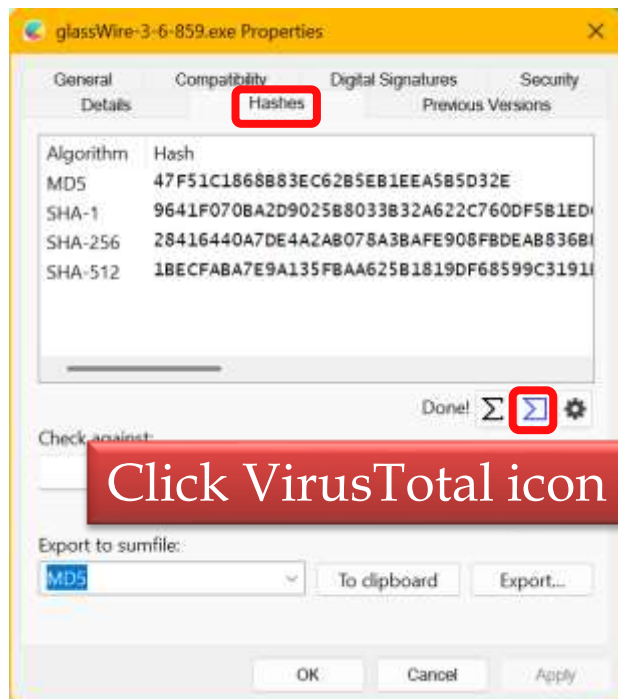
- **28416440A7DE4A2AB078A3BAFE908FBDEAB836BB6774D94235A342BAF33510FD**

File is not identical to what GlassWire published!

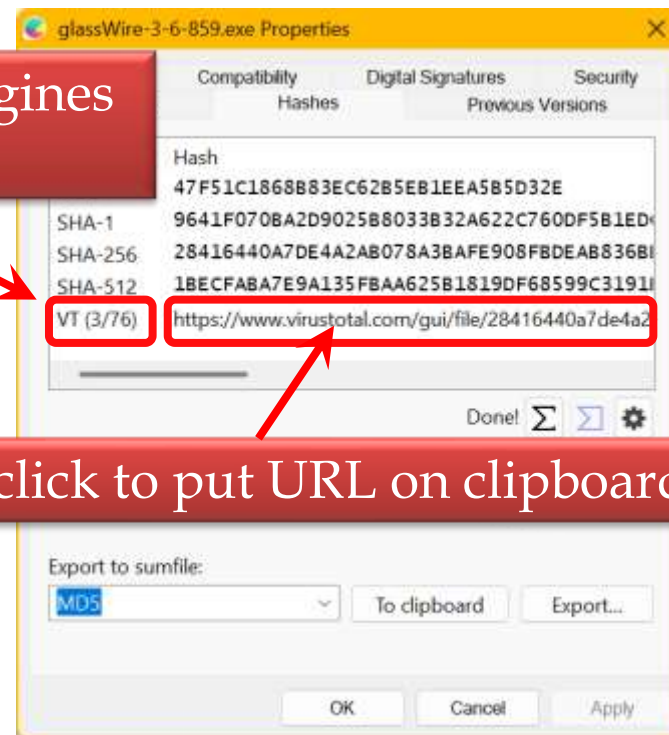
- **Delete it**

Share

# OpenHashTab & VirusTotal



3 of 76 antivirus engines think it is malware



Double-click to put URL on clipboard

Paste into browser to get report at VirusTotal

Share

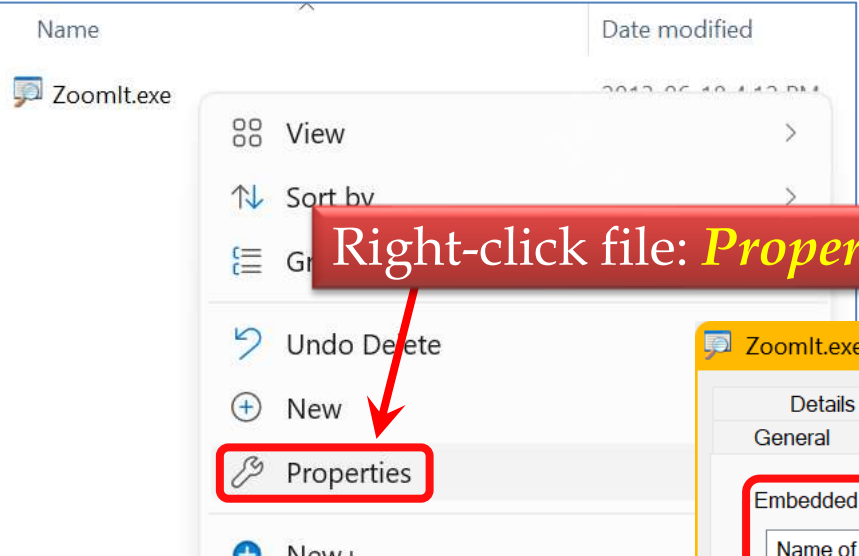
# Digital signatures



- More robust alternative to file hashes
- Provides:
  - authenticity: assurance file was created by owner of certificate
  - integrity: assurance file was not modified in any way
- Vendor:
  - signs the file
- Anyone:
  - can check the signature to see
    - who signed it
    - whether the file has been modified since it was signed

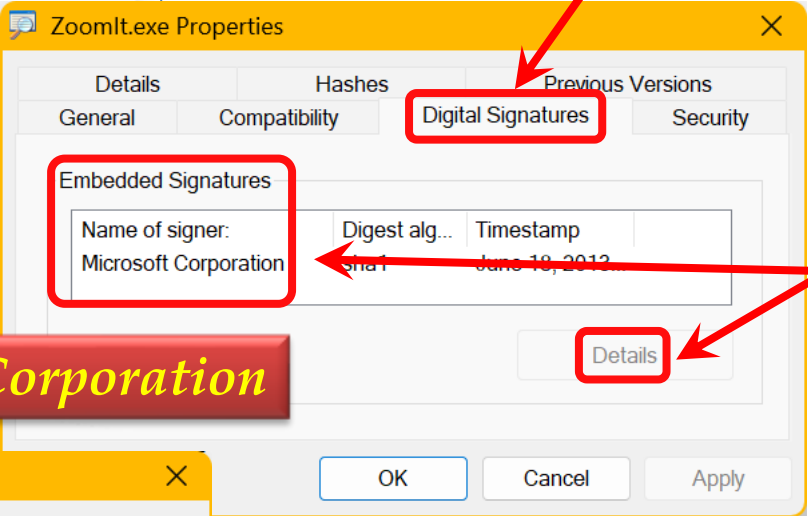
Share

# Digital signatures



Right-click file: *Properties*

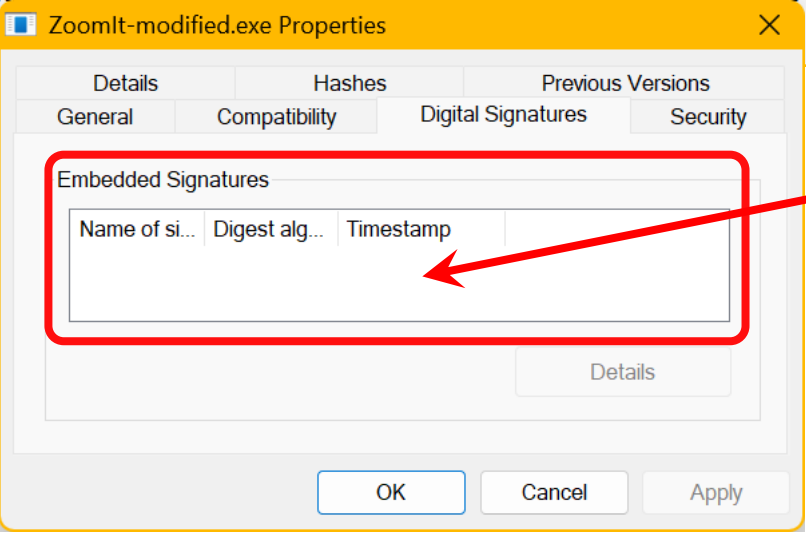
*Digital Signatures* tab



Embedded Signatures  
Name of signer:  
Microsoft Corporation

Can get extra details:  
• click *Name of signer*  
& click *Details*

File signed by *Microsoft Corporation*



If even a single byte of file modified  
• *no signature appears*

Problem:  
• if no signature appears  
• was it *modified* or *never signed*?

Share

# Summary: levels of trust

- Major vendors
  - generally trustworthy...but **doesn't hurt** to do extra checks
- Third-party download sites
  - probably trustworthy...but **good idea** to do extra checks
- Unknown sites
  - **always** do extra checks



Share

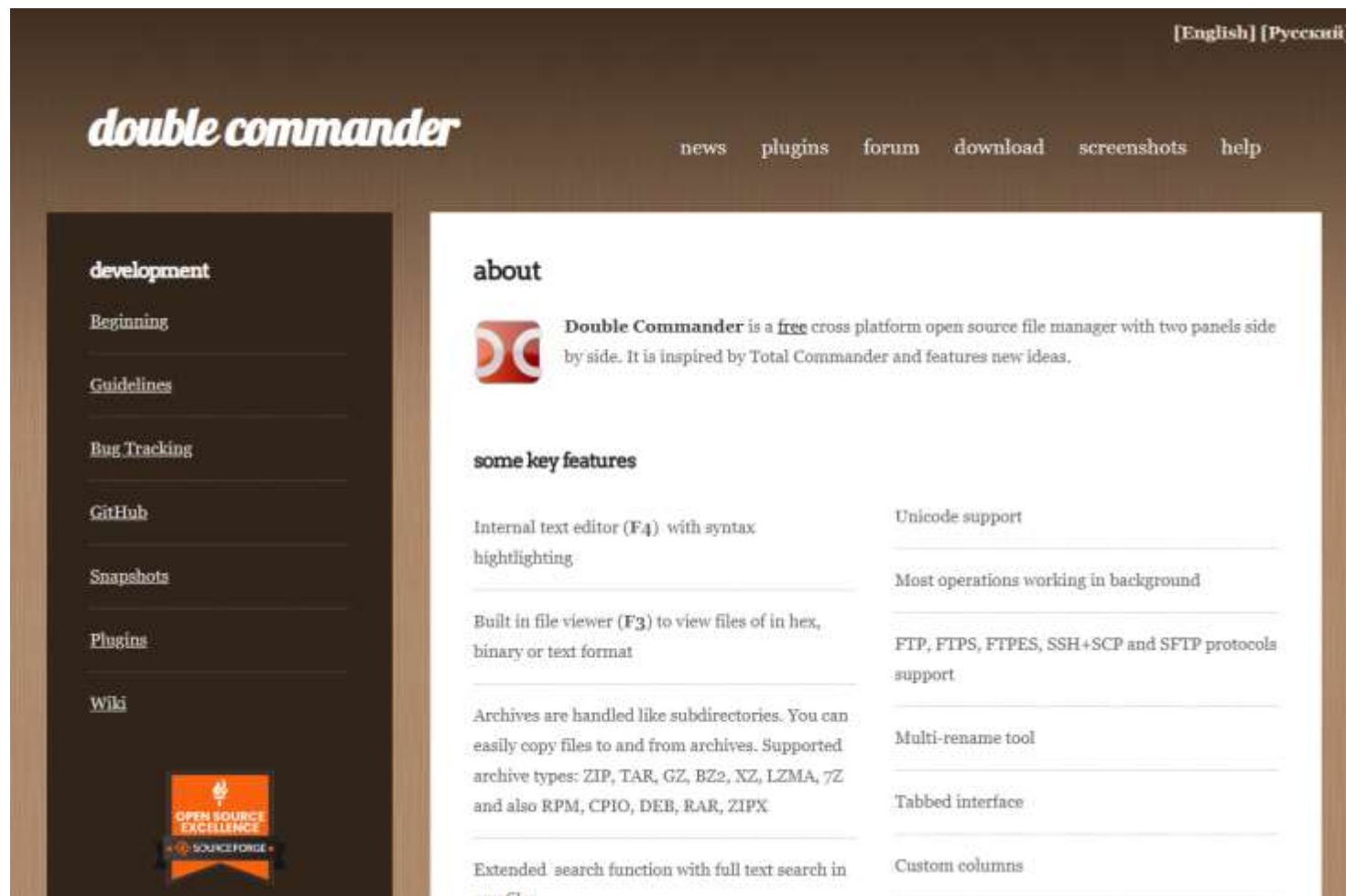
# Summary: extra checks

- Extra checks: **relatively easy regardless of trust level**
  - check for malware at VirusTotal
    - **so easy: why not do every time?**
  - ask multiple/trusted sources if program & vendor trustworthy
  - compare hashes – *if/when a vendor publishes hashes*
  - check digital signatures – *if/when a vendor signs files*
- Extra checks: **(much) more time & effort required**
  - test program in a virtual machine
    - Windows Sandbox
    - Oracle VirtualBox
  - image computer just before installing
    - takes considerable time and storage space



Share

# Double Commander



The screenshot shows the homepage of the Double Commander website. At the top right, there are language options: [English] [Русский]. The main header features the "double commander" logo in a stylized font, followed by navigation links: news, plugins, forum, download, screenshots, and help. A dark sidebar on the left contains a "development" section with links to Beginning, Guidelines, Bug Tracking, GitHub, and Snapshots. Below this are links for Plugins and Wiki. At the bottom of the sidebar is an "Open Source Excellence" badge from SourceForge. The main content area has an "about" section with the Double Commander logo and a description: "Double Commander is a free cross platform open source file manager with two panels side by side. It is inspired by Total Commander and features new ideas." Below this is a "some key features" section with a two-column list of features: Internal text editor (F4) with syntax highlighting, Unicode support, Built in file viewer (F3) to view files in hex, binary or text format, Most operations working in background, Archives are handled like subdirectories, FTP, FTPS, FTPES, SSH+SCP and SFTP protocols support, Multi-rename tool, Extended search function with full text search in all files, and Tabbed interface. A custom columns feature is also listed.

<https://doublecmd.sourceforge.io>

# File and Folder Comparison

- Previously I have used PC Magazine's *WMatch* utility (circa 2005)
- *WMatch* no longer displays files for one of my backup USB flash drives
- Previously, Chris recommended *Total Commander* which is only free as a trial version
- I tried the open-source utility *Meld* which works but I found the UI to be kludgy
- So, on to *Double Commander*...

# Double Commander

- A free, cross platform, open-source file manager
- Inspired by Total Commander
- Features include:
  - Two side-by-side panels
  - Tabbed interface
  - Text editor and file viewer
  - Extended/full text search capabilities
  - Support for archive files (ZIP, TAR...)
  - Plug-ins



Double Commander 1.1.28~787

Files Mark Commands Network Tabs Favorites Show Configuration Help

d: 9.5 G free      u: 7.6 G free

Name	Ext	Size	Date	Attr
[0_archives]		<DIR>	2025-07-29 12:02:08	d-a----
[agtemp]		<DIR>	2025-08-23 14:23:58	d-a----
[alan]		<DIR>	2025-06-24 15:32:30	d-a----
[alan_and_carol_home_page]		<DIR>	2024-03-12 10:39:04	d-a----
[bats]		<DIR>	2025-04-25 12:27:31	d-a----
[JLC]		<DIR>	2025-03-16 16:20:54	d-a----
[nikon]		<DIR>	2025-07-23 19:11:59	d-a----
[OneDriveFiles]		<DIR>	2025-08-19 18:42:27	d-a----
[original]		<DIR>	2025-08-28 13:38:23	d-----
[RBC-Info]		<DIR>	2025-03-26 17:30:45	d-a----
[receipts]		<DIR>	2025-08-28 11:03:55	d-a----
[Road Safety Research]		<DIR>	2024-09-12 21:20:34	d-a----
[System Volume Information]		<DIR>	2023-12-11 10:09:05	d-a----

Name	Ext	Size	Date	Attr
[.Trash-1000]		<DIR>	2025-07-30 10:22:47	d-a----
[0_archives]		<DIR>	2025-07-29 12:28:43	d-a----
[agtemp]		<DIR>	2025-08-22 14:14:17	d-a----
[alan]		<DIR>	2025-06-20 13:58:29	d-a----
[alan_and_carol_home_page]		<DIR>	2025-01-24 09:09:08	d-a----
[bats]		<DIR>	2025-01-24 09:09:25	d-a----
[JLC]		<DIR>	2025-03-16 16:29:01	d-----
[nikon]		<DIR>	2025-07-23 21:20:49	d-a----
[OneDriveFiles]		<DIR>	2025-08-19 19:30:41	d-----
[original]		<DIR>	2025-08-27 21:59:48	d-a----
[RBC-Info]		<DIR>	2025-01-24 09:12:33	d-----
[receipts]		<DIR>	2025-08-28 11:04:04	d-a----
[Road Safety Research]		<DIR>	2025-01-24 09:12:42	d-a----

Selected: 0 of 40.5 M, files: 0 of 11, folders: 0 of 20      Selected: 0 of 40.6 M, files: 0 of 11, folders: 0 of 20

d:>

View F3      Edit F4      Copy F5      Move F6      Directory F7      Delete F8      Terminal F9      Exit Alt+X

Double Commander 1.1.28~787

Files Mark Commands Network Tabs Favorites Show Configuration Help

Save current tabs to a New Favorite Tabs  
Resave on the last Favorite Tabs loaded  
Reload the last Favorite Tabs loaded  
Configuration of Favorite Tabs

d:\

Original

Name	Ext	Size	Date	Attr
[0_archives]	<DIR>		2025-07-29 12:02:08 d-a	
[agtemp]	<DIR>		2025-08-23 14:23:58 d-a	
[alan]	<DIR>		2025-06-24 15:32:30 d-a	
[alan_and_carol_home_page]	<DIR>		2024-03-12 10:39:04 d-a	
[bats]	<DIR>		2025-04-25 12:27:31 d-a	
[JLC]	<DIR>		2025-03-16 16:20:54 d-a	
[nikon]	<DIR>		2025-07-23 19:11:59 d-a	
[OneDriveFiles]	<DIR>		2025-08-19 18:42:27 d-a	
[original]	<DIR>		2025-08-28 13:38:23 d	
[RBC-Info]	<DIR>		2025-03-26 17:30:45 d-a	
[receipts]	<DIR>		2025-08-28 11:03:55 d-a	
[Road Safety Research]	<DIR>		2024-09-12 21:20:34 d-a	
[System Volume Information]	<DIR>		2023-12-11 10:09:05 d-a	

Selected: 0 of 40.5 M, files: 0 of 11, folders: 0 of 20

d:\>

View F3 Edit F4 Copy F5 Move F6 Directory F7 Delete F8 Terminal F9 Exit Alt+X

u:\

7.6 G free

Name	Ext	Size	Date	Attr
[.Trash-1000]	<DIR>		2025-07-30 10:22:47 d-a	
[0_archives]	<DIR>		2025-07-29 12:28:43 d-a	
[agtemp]	<DIR>		2025-08-22 14:14:17 d-a	
[alan]	<DIR>		2025-06-20 13:58:29 d-a	
[alan_and_carol_home_page]	<DIR>		2025-01-24 09:09:08 d-a	
[bats]	<DIR>		2025-01-24 09:09:25 d-a	
[JLC]	<DIR>		2025-03-16 16:29:01 d	
[nikon]	<DIR>		2025-07-23 21:20:49 d-a	
[OneDriveFiles]	<DIR>		2025-08-19 19:30:41 d	
[original]	<DIR>		2025-08-27 21:59:48 d-a	
[RBC-Info]	<DIR>		2025-01-24 09:12:33 d	
[receipts]	<DIR>		2025-08-28 11:04:04 d-a	
[Road Safety Research]	<DIR>		2025-01-24 09:12:42 d-a	

Selected: 0 of 40.6 M, files: 0 of 11, folders: 0 of 20

u:\>

Double Commander 1.1.28~787

Files Mark Commands Network Tabs Favorites Show Configuration Help

c d s u \\

d 9.5 G free

u 7.6 G free

d:\original

u:\original

Name	Ext	Size	Date	Attr
[..]		<DIR>	2025-08-28 13:38:23	d-----
[DesktopOK]		<DIR>	2025-05-29 14:08:54	d-----
APCUG-Speakers-Bureau	pdf	233.5 K	2025-05-24 15:17:59	--a----
BOD-Report	docx	17.8 K	2025-08-22 13:51:47	--a----
DoubleCommander-1.1.28.x86_6..	exe	10.0 M	2025-08-27 14:36:33	--a----
PatchMyPCHomeUpdater	log	40.1 K	2025-05-07 14:46:53	--a----
PatchMyPC-HomeUpdater	msi	52.4 M	2025-02-06 14:34:25	--a----
rufus-4.4	exe	1.4 M	2024-02-18 12:11:03	--a----
secteerSetup	exe	2.1 M	2024-02-07 14:29:34	--a----
thunderbird_contacts	pptx	401.1 K	2024-11-14 16:02:33	--a----
Uninstalr_Portable	exe	5.6 M	2024-05-03 15:24:06	--a----
YUMI-exFAT-1.0.0.7	exe	17.2 M	2022-11-04 11:45:44	--a----

Selected: 0 of 89.3 M, files: 0 of 10, folders: 0 of 1

d:\original>

View F3 Edit F4 Copy F5 Move F6 Directory F7 Delete F8 Terminal F9 Exit Alt+X

Double Commander 1.1.28~787

Files Mark Commands Network Tabs Favorites Show Configuration Help

d 9.5 G free u 7.6 G free

d:\original u:\original

Name	Ext	Size	Date	Attr
[..]	<DIR>		2025-08-28 13:38:23	d-----
[DesktopOK]	<DIR>		2025-05-29 14:08:54	d-----
APCUG-Speakers-Bureau	pdf	233.5 K	2025-05-24 15:17:59	--a----
BOD-Report	docx	17.8 K	2025-08-22 13:51:47	--a----
DoubleCommander-1.1.28.x86_6..	exe	10.0 M	2025-08-27 14:36:33	--a----
PatchMyPCHomeUpdater	log	40.1 K	2025-05-07 14:46:53	--a----
PatchMyPC-HomeUpdater	msi	52.4 M	2025-02-06 14:34:25	--a----
rufus-4.4	exe	1.4 M	2024-02-18 12:11:03	--a----
secteerSetup	exe	2.1 M	2024-02-07 14:29:34	--a----
thunderbird_contacts	pptx	401.1 K	2024-11-14 16:02:33	--a----
Uninstalr_Portable	exe	5.6 M	2024-05-03 15:24:06	--a----
YUMI-exFAT-1.0.0.7	exe	17.2 M	2022-11-04 11:45:44	--a----

Selected: 0 of 89.3 M, files: 0 of 10, folders: 0 of 1

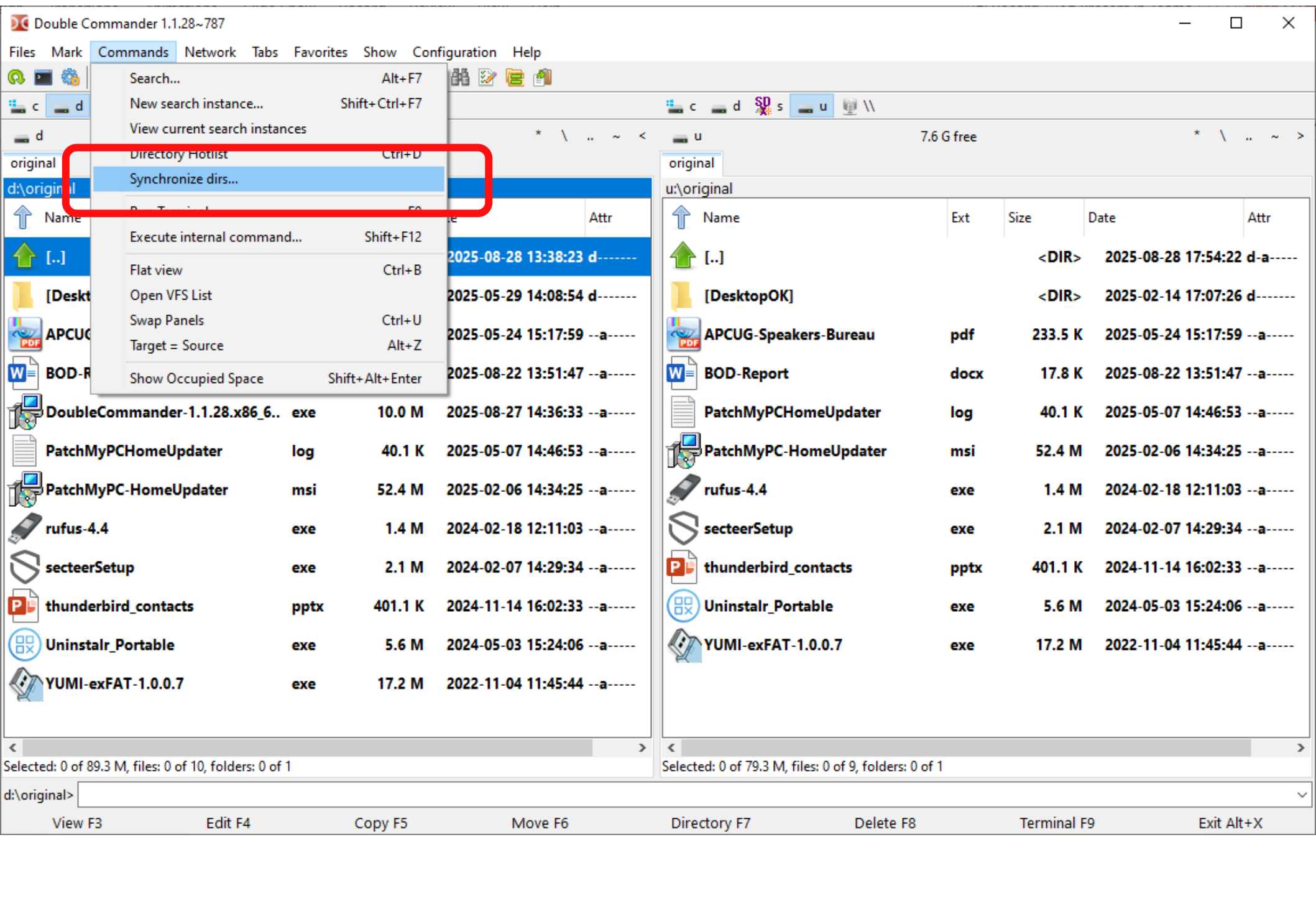
d:\original>

Name	Ext	Size	Date	Attr
[..]	<DIR>		2025-08-28 17:54:22	d-a-----
[DesktopOK]	<DIR>		2025-02-14 17:07:26	d-----
APCUG-Speakers-Bureau	pdf	233.5 K	2025-05-24 15:17:59	--a----
BOD-Report	docx	17.8 K	2025-08-22 13:51:47	--a----
PatchMyPCHomeUpdater	log	40.1 K	2025-05-07 14:46:53	--a----
PatchMyPC-HomeUpdater	msi	52.4 M	2025-02-06 14:34:25	--a----
rufus-4.4	exe	1.4 M	2024-02-18 12:11:03	--a----
secteerSetup	exe	2.1 M	2024-02-07 14:29:34	--a----
thunderbird_contacts	pptx	401.1 K	2024-11-14 16:02:33	--a----
Uninstalr_Portable	exe	5.6 M	2024-05-03 15:24:06	--a----
YUMI-exFAT-1.0.0.7	exe	17.2 M	2022-11-04 11:45:44	--a----

Selected: 0 of 79.3 M, files: 0 of 9, folders: 0 of 1

u:\original>

View F3 Edit F4 Copy F5 Move F6 Directory F7 Delete F8 Terminal F9 Exit Alt+X



Double Commander 1.1.28-787

Files Mark Commands Network Tabs Favorites Show Configuration Help

- Search... Alt+F7
- New search instance... Shift+Ctrl+F7
- View current search instances
- Directory Hotlist Ctrl+D
- Synchronize dirs...**
- Execute internal command... Shift+F12
- Flat view Ctrl+B
- Open VFS List
- Swap Panels Ctrl+U
- Target = Source Alt+Z
- Show Occupied Space Shift+Alt+Enter

Name	Ext	Size	Date	Attr
[..]				
[DesktopOK]				
APCUG-Speakers-Bureau	pdf	233.5 K	2025-05-24 15:17:59	--a----
BOD-Report	docx	17.8 K	2025-08-22 13:51:47	--a----
DoubleCommander-1.1.28.x86_6..	exe	10.0 M	2025-08-27 14:36:33	--a----
PatchMyPCHomeUpdater	log	40.1 K	2025-05-07 14:46:53	--a----
PatchMyPC-HomeUpdater	msi	52.4 M	2025-02-06 14:34:25	--a----
rufus-4.4	exe	1.4 M	2024-02-18 12:11:03	--a----
secteerSetup	exe	2.1 M	2024-02-07 14:29:34	--a----
thunderbird_contacts	pptx	401.1 K	2024-11-14 16:02:33	--a----
Uninstalr_Portable	exe	5.6 M	2024-05-03 15:24:06	--a----
YUMI-exFAT-1.0.0.7	exe	17.2 M	2022-11-04 11:45:44	--a----

Selected: 0 of 89.3 M, files: 0 of 10, folders: 0 of 1

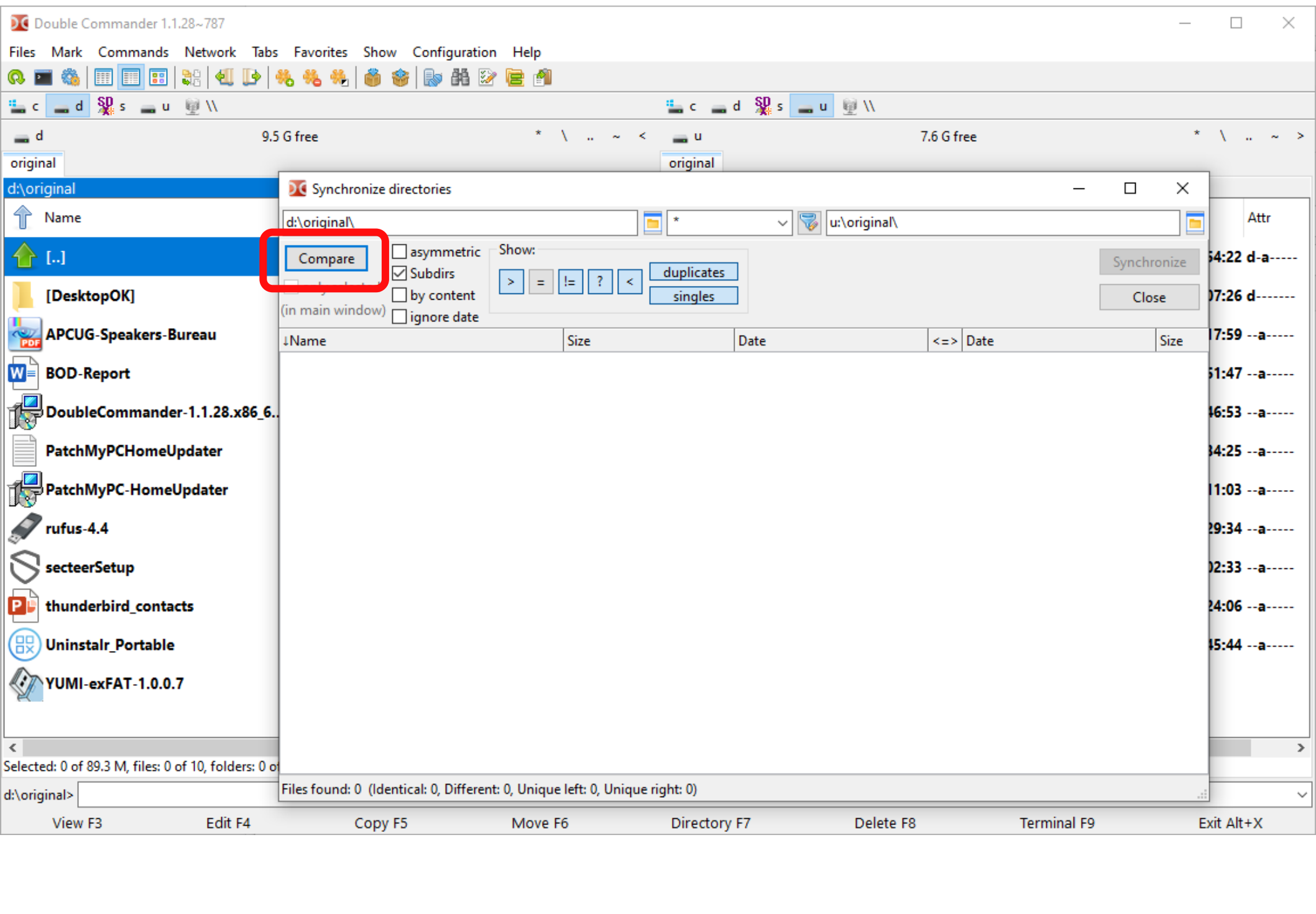
d:\original>

Name	Ext	Size	Date	Attr
[..]				
[DesktopOK]				
APCUG-Speakers-Bureau	pdf	233.5 K	2025-05-24 15:17:59	--a----
BOD-Report	docx	17.8 K	2025-08-22 13:51:47	--a----
PatchMyPCHomeUpdater	log	40.1 K	2025-05-07 14:46:53	--a----
PatchMyPC-HomeUpdater	msi	52.4 M	2025-02-06 14:34:25	--a----
rufus-4.4	exe	1.4 M	2024-02-18 12:11:03	--a----
secteerSetup	exe	2.1 M	2024-02-07 14:29:34	--a----
thunderbird_contacts	pptx	401.1 K	2024-11-14 16:02:33	--a----
Uninstalr_Portable	exe	5.6 M	2024-05-03 15:24:06	--a----
YUMI-exFAT-1.0.0.7	exe	17.2 M	2022-11-04 11:45:44	--a----

Selected: 0 of 79.3 M, files: 0 of 9, folders: 0 of 1

u:\original>

View F3 Edit F4 Copy F5 Move F6 Directory F7 Delete F8 Terminal F9 Exit Alt+X



Double Commander 1.1.28~787

Files Mark Commands Network Tabs Favorites Show Configuration Help

d 9.5 G free u 7.6 G free

d:\original

original

d:\original

Name

[..]

[DesktopOK]

APCUG-Speakers-Bureau

BOD-Report

DoubleCommander-1.1.28.x86\_64

PatchMyPCHomeUpdater

PatchMyPC-HomeUpdater

rufus-4.4

secteerSetup

thunderbird\_contacts

Uninstalr\_Portable

YUMI-exFAT-1.0.0.7

Selected: 0 of 89.3 M, files: 0 of 10, folders: 0 of 1

d:\original>

Synchronize directories

d:\original\ \* u:\original\

Compare

asymmetric

Subdirs

only selected (in main window)

by content

ignore date

Show:

> = != ? <

duplicates

singles

Synchronize

Close

Name	Size	Date	<=>	Date	Size
DoubleCommander-1.1.28.x86_64-win64.exe	10,486,914	2025.08.27 14:36:33	>		

Files found: 1 (Identical: 0, Different: 0, Unique left: 1, Unique right: 0)

View F3 Edit F4 Copy F5 Move F6 Directory F7 Delete F8 Terminal F9 Exit Alt+X

There is a file listed here but there is little contrast between the background and text colours

# Configuration > Options > Colors > File panels > Cursor Color

The screenshot shows the Double Commander 1.1.28-787 Options dialog box, specifically the File panels tab. The 'Cursor Color' dropdown menu is highlighted with a red rectangle and is set to 'Active Caption'. The dialog also shows other settings like Text Color, Background, and Mark Color. Below the settings is a preview area with two file lists.

**File panels settings:**

- Text Color: Window Text
- Background: Window
- Background 2: Window
- Mark Color: Red
- Cursor Color: Active Caption**
- Cursor Text: Highlight Text
- Inactive Cursor Color: Inactive Caption
- Inactive Mark Color: Maroon
- Cursor border
- Highlight: Highlight
- Use Inverted Selection
- Use Inactive Sel Color
- Use Frame Cursor
- Allow Overcolor
- Brightness level of inactive panel: [Slider]
- Current Path: [Field]
- Text Color: Highlight Text
- Background: Active Caption
- Inactive Text Color: Button Text
- Inactive Background: Button Face
- Reset to DC default

**Preview:** Below is a preview. You may move cursor, select file and get immediately an actual look and feel of the various settings.

Name	Ext	Size
AppBash	s19	185.
AppCheap	DPR	495.
Appdc	DPR	799.
AppSouth	tmp	707.
Appstop	DPR	25.

Name	Ext	Size
Appdc	zip	157.2 K
Appfst	s19	707.7 K
Closerconfig	exe	536.4 K
Closernew	pas	681.8 K
configred	pas	150.4 K
configSouth	xlsx	32.5 K

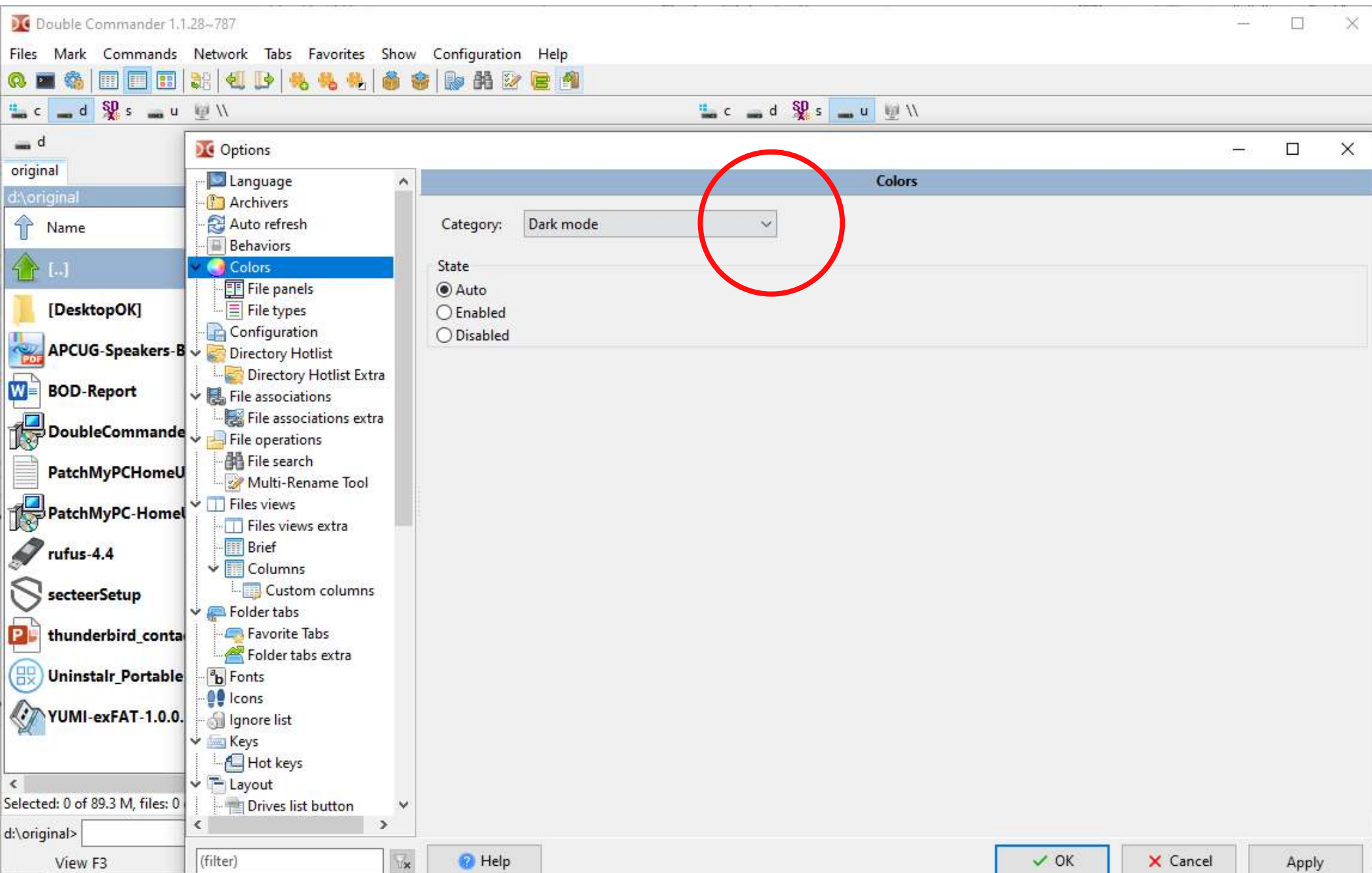
Selected: 0 of 14.0 M, files: 0 of 30, folders: 0 of 0

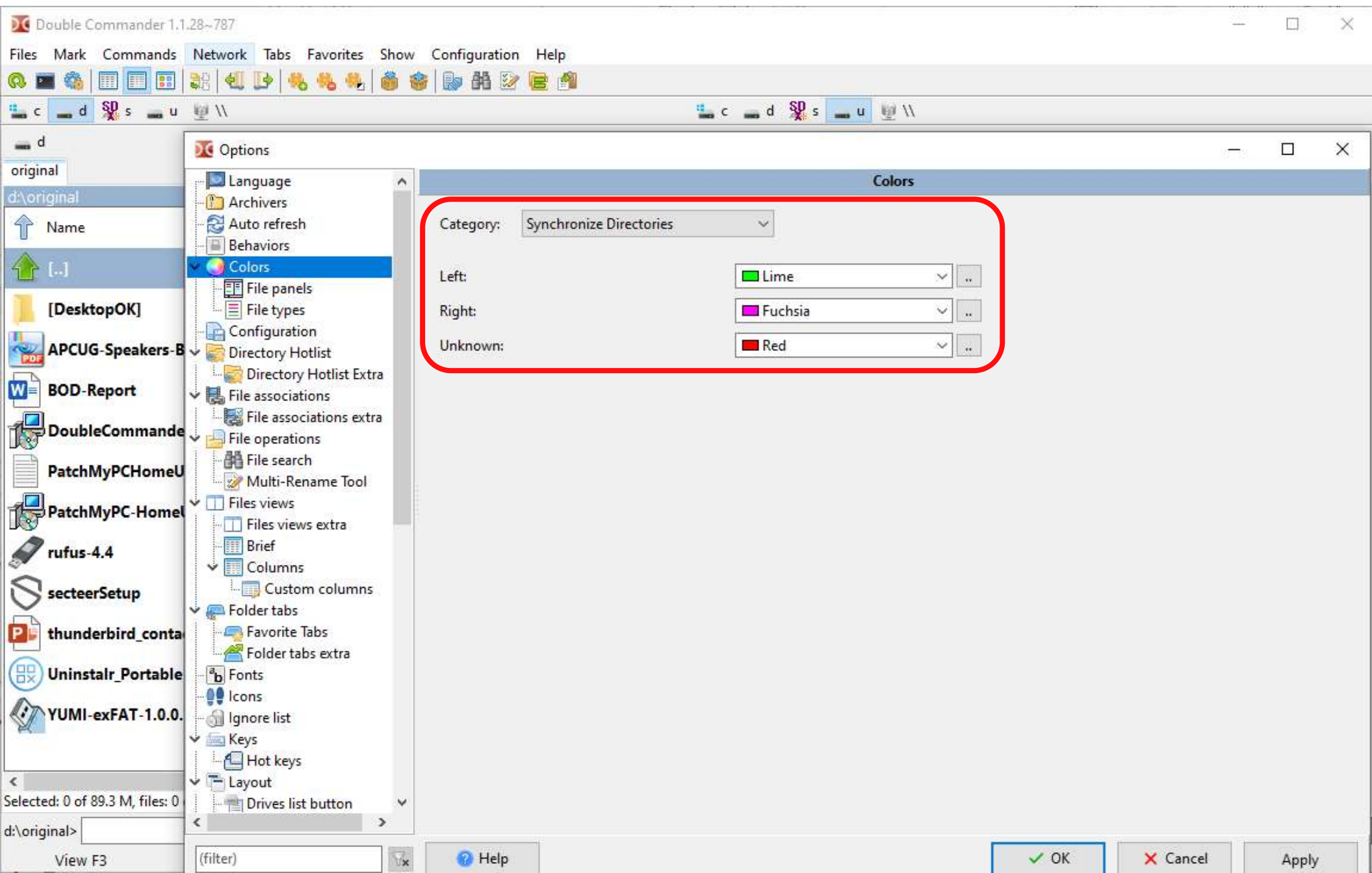
Selected: 0 of 12.0 M, files: 0 of 30, folders: 0 of 0

Buttons: OK, Cancel, Apply

Bottom bar: View F3, Edit F4, Copy F5, Move F6, Directory F7, Delete F8, Terminal F9, Exit Alt+X

# Configuration > Options > Colors >





Double Commander 1.1.28~787

Files Mark Commands Network Tabs Favorites Show Configuration Help

d 9.5 G free u 7.6 G free

d:\original

Synchronize directories

d:\original\ \* u:\original\

Compare

- asymmetric
- Subdirs
- only selected (in main window)
- by content
- ignore date

Show:

> = != ? < duplicates singles

Synchronize Close

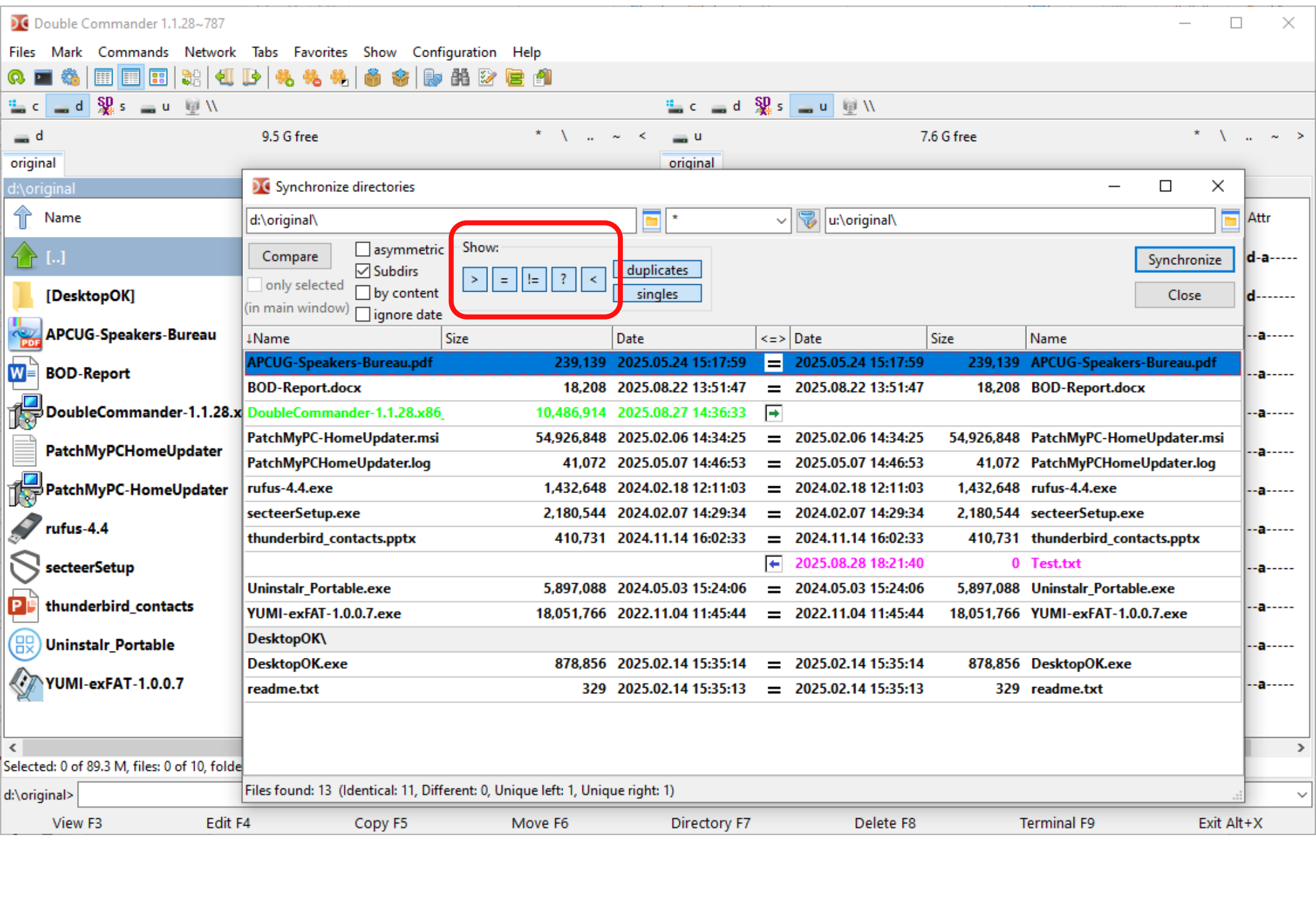
Name	Size	Date	<=>	Date	Size	Name
DoubleCommander-1.1.28.x86	10,486,914	2025.08.27 14:36:33	→			

**Better (but still not great)**

Selected: 0 of 89.3 M, files: 0 of 10, folders: 0 of 10

d:\original> Files found: 1 (Identical: 0, Different: 0, Unique left: 1, Unique right: 0)

View F3 Edit F4 Copy F5 Move F6 Directory F7 Delete F8 Terminal F9 Exit Alt+X



### Synchronize directories

d:\original\    \*    u:\original\

Compare     asymmetric     Subdirs     only selected (in main window)     by content     ignore date

Show:    >    =    !=    ?    <    duplicates    singles

Name	Size	Date	<=>	Date	Size	Name
APCUG-Speakers-Bureau.pdf	239,139	2025.05.24 15:17:59	=	2025.05.24 15:17:59	239,139	APCUG-Speakers-Bureau.pdf
BOD-Report.docx	18,208	2025.08.22 13:51:47	=	2025.08.22 13:51:47	18,208	BOD-Report.docx
DoubleCommander-1.1.28.x86_	10,486,914	2025.08.27 14:36:33	→			
PatchMyPC-HomeUpdater.msi	54,926,848	2025.02.06 14:34:25	=	2025.02.06 14:34:25	54,926,848	PatchMyPC-HomeUpdater.msi
PatchMyPCHomeUpdater.log	41,072	2025.05.07 14:46:53	=	2025.05.07 14:46:53	41,072	PatchMyPCHomeUpdater.log
rufus-4.4.exe	1,432,648	2024.02.18 12:11:03	=	2024.02.18 12:11:03	1,432,648	rufus-4.4.exe
secteerSetup.exe	2,180,544	2024.02.07 14:29:34	=	2024.02.07 14:29:34	2,180,544	secteerSetup.exe
thunderbird_contacts.pptx	410,731	2024.11.14 16:02:33	=	2024.11.14 16:02:33	410,731	thunderbird_contacts.pptx
			←	2025.08.28 18:21:40	0	Test.txt
Uninstalr_Portable.exe	5,897,088	2024.05.03 15:24:06	=	2024.05.03 15:24:06	5,897,088	Uninstalr_Portable.exe
YUMI-exFAT-1.0.0.7.exe	18,051,766	2022.11.04 11:45:44	=	2022.11.04 11:45:44	18,051,766	YUMI-exFAT-1.0.0.7.exe
DesktopOK\						
DesktopOK.exe	878,856	2025.02.14 15:35:14	=	2025.02.14 15:35:14	878,856	DesktopOK.exe
readme.txt	329	2025.02.14 15:35:13	=	2025.02.14 15:35:13	329	readme.txt

Files found: 13 (Identical: 11, Different: 0, Unique left: 1, Unique right: 1)

Selected: 0 of 89.3 M, files: 0 of 10, folde

d:\original>

Double Commander 1.1.28~787

Files Mark Commands Network Tabs Favorites Show Configuration Help

d 9.5 G free u 7.6 G free

d:\original u:\original

Synchronize directories

d:\original\ u:\original\

Compare  asymmetric  Subdirs  only selected (in main window)  by content  ignore date Show: > = != ? < duplicates singles Synchronize Close

Left Name	Left Size	Left Date	Comparison	Right Date	Right Size	Right Name
APCUG-Speakers-Bureau.pdf	239,139	2025.05.24 15:17:59	=	2025.05.24 15:17:59	239,139	APCUG-Speakers-Bureau.pdf
BOD-Report.docx	18,208	2025.08.22 13:51:47	=	2025.08.22 13:51:47	18,208	BOD-Report.docx
DoubleCommander-1.1.28.x86_...	10,486,914	2025.08.27 14:36:33	→			
PatchMyPC-HomeUpdater.msi	54,926,848	2025.02.06 14:34:25	=	2025.02.06 14:34:25	54,926,848	PatchMyPC-HomeUpdater.msi
PatchMyPCHomeUpdater.log	41,072	2025.05.07 14:46:53	=	2025.05.07 14:46:53	41,072	PatchMyPCHomeUpdater.log
rufus-4.4.exe	1,432,648	2024.02.18 12:11:03	=	2024.02.18 12:11:03	1,432,648	rufus-4.4.exe
secteerSetup.exe	2,180,544	2024.02.07 14:29:34	=	2024.02.07 14:29:34	2,180,544	secteerSetup.exe
thunderbird_contacts.pptx	410,731	2024.11.14 16:02:33	=	2024.11.14 16:02:33	410,731	thunderbird_contacts.pptx
Uninstalr_Portable.exe	5,897,088	2024.05.03 15:24:06	=	2024.05.03 15:24:06	5,897,088	Uninstalr_Portable.exe
YUMI-exFAT-1.0.0.7.exe	18,051,766	2022.11.04 11:45:44	=	2022.11.04 11:45:44	18,051,766	YUMI-exFAT-1.0.0.7.exe
DesktopOK\						
DesktopOK.exe	878,856	2025.02.14 15:35:14	=	2025.02.14 15:35:14	878,856	DesktopOK.exe
readme.txt	329	2025.02.14 15:35:13	=	2025.02.14 15:35:13	329	readme.txt

Selected: 0 of 89.3 M, files: 0 of 10, folders: 0 of 1

d:\original>

View F3 Edit F4 Copy

Files found: 13 (Identical: 11, Different: 0, Unique left: 1, Unique right: 1)

- Select for copying (default direction) Ctrl+D
- Remove selection Ctrl+M
- Select for copying -> (left to right) Ctrl+L
- Select for copying <- (right to left) Ctrl+R
- Reverse copy direction Ctrl+W
- View left F3
- View right Shift+F3
- Compare Ctrl+F3
- Select for deleting <- (left)
- Select for deleting -> (right)
- Select for deleting <-> (both)
- <- Delete left
- > Delete right
- Delete on both sides

**Right-click on the file direction indicator  
Box and select *Delete right***



Name	Ext	Size
[..]		
[DesktopOK]		
APCUG-Speakers-Bureau	pdf	239,139
BOD-Report	docx	18,208
DoubleCommander-1.1.28.x86_6..	exe	10,432,648
PatchMyPCHomeUpdater	log	41,072
PatchMyPC-HomeUpdater	msi	54,926,848
rufus-4.4	exe	1,432,648
secteerSetup	exe	2,180,544
thunderbird_contacts	pptx	410,731
Uninstalr_Portable	exe	5,897,088
YUMI-exFAT-1.0.0.7	exe	18,051,766

Synchronize directories

d:\original\ \* u:\original\

Compare  asymmetric  Subdirs  by content  ignore date

Show: > = != ? < duplicates singles

Synchronize Close

Name	Size	Date	<=>	Date	Size	Name
APCUG-Speakers-Bureau.pdf	239,139	2025.05.24 15:17:59	=	2025.05.24 15:17:59	239,139	APCUG-Speakers-Bureau.pdf
BOD-Report.docx	18,208				18,208	BOD-Report.docx
DoubleCommander-1.1.28.x86_6..	10,432,648				10,432,648	DoubleCommander-1.1.28.x86_6..
PatchMyPC-HomeUpdater.msi	54,926,848				54,926,848	PatchMyPC-HomeUpdater.msi
PatchMyPCHomeUpdater.log	41,072				41,072	PatchMyPCHomeUpdater.log
rufus-4.4.exe	1,432,648				1,432,648	rufus-4.4.exe
secteerSetup.exe	2,180,544	2024.02.07 14:29:34	=	2024.02.07 14:29:34	2,180,544	secteerSetup.exe
thunderbird_contacts.pptx	410,731	2024.11.14 16:02:33	=	2024.11.14 16:02:33	410,731	thunderbird_contacts.pptx
Uninstalr_Portable.exe	5,897,088	2024.05.03 15:24:06	=	2024.05.03 15:24:06	5,897,088	Uninstalr_Portable.exe
YUMI-exFAT-1.0.0.7.exe	18,051,766	2022.11.04 11:45:44	=	2022.11.04 11:45:44	18,051,766	YUMI-exFAT-1.0.0.7.exe
DesktopOK\						DesktopOK\
DesktopOK.exe	878,856	2025.02.14 15:35:14	=	2025.02.14 15:35:14	878,856	DesktopOK.exe
readme.txt	329	2025.02.14 15:35:13	=	2025.02.14 15:35:13	329	readme.txt
						2025.08.28 18:21:40 0 Test.txt

Warning: Right panel: Delete 1 selected files/directories?

Yes No

Files found: 13 (Identical: 11, Different: 0, Unique left: 1, Unique right: 1)

Double Commander 1.1.28~787

Files Mark Commands Network Tabs Favorites Show Configuration Help

d 9.5 G free u 7.6 G free

d:\original u:\original

Synchronize directories

d:\original\ u:\original\

Compare  asymmetric  Subdirs  only selected (in main window)  by content  ignore date

Show: > = != ? < duplicates singles

Synchronize Close

Name	Size	Date	<=>	Date	Size	Name
APCUG-Speakers-Bureau.pdf	239,139	2025.05.24 15:17:59	=	2025.05.24 15:17:59	239,139	APCUG-Speakers-Bureau.pdf
BOD-Report.docx	18,208	2025.08.22 13:51:47	=	2025.08.22 13:51:47	18,208	BOD-Report.docx
DoubleCommander-1.1.28.x86_64.exe	10,486,914	2025.08.27 14:36:33	→			
PatchMyPC-HomeUpdater.msi	54,926,848	2025.02.06 14:34:25	=	2025.02.06 14:34:25	54,926,848	PatchMyPC-HomeUpdater.msi
PatchMyPCHomeUpdater.log	41,072	2025.05.07 14:46:53	=	2025.05.07 14:46:53	41,072	PatchMyPCHomeUpdater.log
rufus-4.4.exe	1,432,648	2024.02.18 12:11:03	=	2024.02.18 12:11:03	1,432,648	rufus-4.4.exe
secteerSetup.exe	2,180,544	2024.02.07 14:29:34	=	2024.02.07 14:29:34	2,180,544	secteerSetup.exe
thunderbird_contacts.pptx	410,731	2024.11.14 16:02:33	=	2024.11.14 16:02:33	410,731	thunderbird_contacts.pptx
Uninstalr_Portable.exe	5,897,088	2024.05.03 15:24:06	=	2024.05.03 15:24:06	5,897,088	Uninstalr_Portable.exe
YUMI-exFAT-1.0.0.7.exe	18,051,766	2022.11.04 11:45:44	=	2022.11.04 11:45:44	18,051,766	YUMI-exFAT-1.0.0.7.exe
DesktopOK\						
DesktopOK.exe	878,856	2025.02.14 15:35:14	=	2025.02.14 15:35:14	878,856	DesktopOK.exe
readme.txt	329	2025.02.14 15:35:13	=	2025.02.14 15:35:13	329	readme.txt

Selected: 0 of 89.3 M, files: 0 of 10, folders: 0 of 1

d:\original>

View F3 Edit F4 Copy

Files found: 13 (Identical: 11, Different: 0, Unique left: 1, Unique right: 1)

**Test.txt has been deleted from the USB drive**

Double Commander 1.1.28-787

Files Mark Commands Network Tabs Favorites Show Configuration Help

Synchronize directories

d:\original\ \* u:\original\

Compare  asymmetric  Subdirs  only selected (in main window)  by content  ignore data

Show: > = ! ? <

Duplicates  
Singles

Synchronize

Name	Size	Date	<=>	Date	Size	Name	Attr
DoubleCommander 1.1.28.x86_64-win64.exe	10,486,914	2025.08.27 14:36:33					

Files found: 1 (Identical: 0, Different: 0, Unique left: 1, Unique right: 0)

Selected: 0 of 89.3 M, files: 0 of 10, folders: 0 of 1

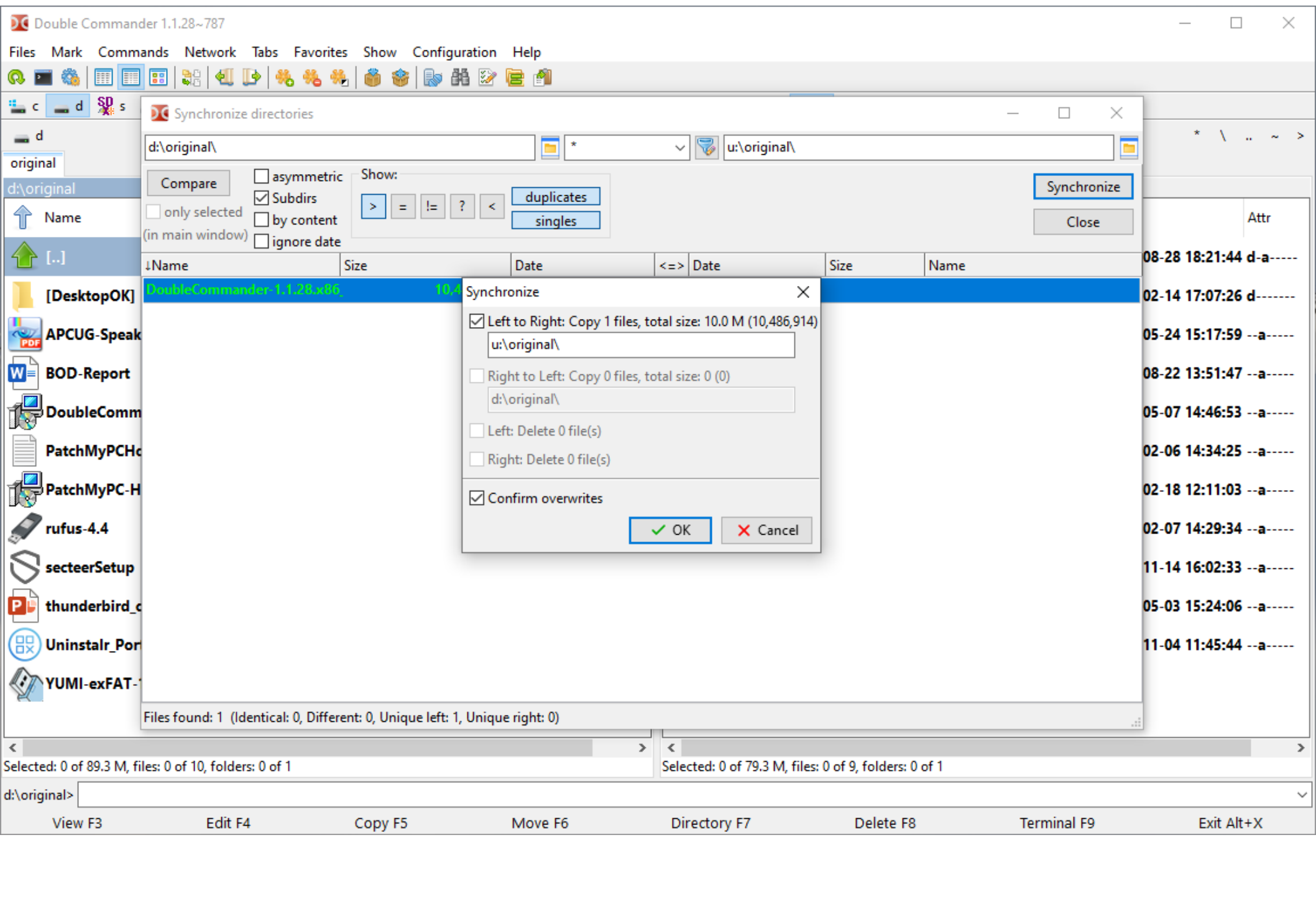
Selected: 0 of 79.3 M, files: 0 of 9, folders: 0 of 1

d:\original>

View F3 Edit F4 Copy F5 Move F6 Directory F7 Delete F8 Terminal F9 Exit Alt+X

**One new file on the left  
(DoubleCommander-1.1.28.x86\_64-win64.exe)**

**Click on synchronize to copy the selected file  
to the USB drive on the right**



Double Commander 1.1.28-787

Files Mark Commands Network Tabs Favorites Show Configuration Help

Synchronize directories

d:\original\ \* u:\original\

Compare  asymmetric  Subdirs  by content  ignore data

only selected (in main window)

Show: > = != ? <

Duplicates  
Singles

Synchronize  
Close

Name	Size	Date	<=>	Date	Size	Name
						08-28 18:21:44 d-a-----
						02-14 17:07:26 d-----
						05-24 15:17:59 --a-----
						08-22 13:51:47 --a-----
						08-27 14:36:33 --a-----
						05-07 14:46:53 --a-----
						02-06 14:34:25 --a-----
						02-18 12:11:03 --a-----
						02-07 14:29:34 --a-----
						11-14 16:02:33 --a-----
						05-03 15:24:06 --a-----
						11-04 11:45:44 --a-----

Files found: 0 (Identical: 0, Different: 0, Unique left: 0, Unique right: 0)

Selected: 0 of 89.3 M, files: 0 of 10, folders: 0 of 1

d:\original>

View F3 Edit F4 Copy F5 Move F6 Directory F7 Delete F8 Terminal F9 Exit Alt+X

**There are now no new files on the left**

Double Commander 1.1.28~787

Files Mark Commands Network Tabs Favorites Show Configuration Help

Synchronize directories

d:\original\ \* u:\original\

Compare
  asymmetric
  Subdirs
  only selected
  by content
  ignore date
 Show:
 > = != ? <
 duplicates
 singles
 Synchronize
 Close
 (in main window)

Name	Size	Date	<=>	Date	Size	Name	Attr
APCUG-Speakers-Bureau.pdf	239,139	2025.05.24 15:17:59	=	2025.05.24 15:17:59	239,139	APCUG-Speakers-Bureau.pdf	08-28 18:21:44 d-a-----
BOD-Report.docx	18,208	2025.08.22 13:51:47	=	2025.08.22 13:51:47	18,208	BOD-Report.docx	02-14 17:07:26 d-----
DoubleCommander-1.1.28.x86_	10,486,914	2025.08.27 14:36:33	=	2025.08.27 14:36:33	10,486,914	DoubleCommander-1.1.28.x86_6	05-24 15:17:59 --a-----
PatchMyPC-HomeUpdater.msi	54,926,848	2025.02.06 14:34:25	=	2025.02.06 14:34:25	54,926,848	PatchMyPC-HomeUpdater.msi	08-22 13:51:47 --a-----
PatchMyPCHomeUpdater.log	41,072	2025.05.07 14:46:53	=	2025.05.07 14:46:53	41,072	PatchMyPCHomeUpdater.log	
rufus-4.4.exe	1,432,648	2024.02.18 12:11:03	=	2024.02.18 12:11:03	1,432,648	rufus-4.4.exe	08-27 14:36:33 --a-----
secteerSetup.exe	2,180,544	2024.02.07 14:29:34	=	2024.02.07 14:29:34	2,180,544	secteerSetup.exe	05-07 14:46:53 --a-----
thunderbird_contacts.pptx	410,731	2024.11.14 16:02:33	=	2024.11.14 16:02:33	410,731	thunderbird_contacts.pptx	
Uninstalr_Portable.exe	5,897,088	2024.05.03 15:24:06	=	2024.05.03 15:24:06	5,897,088	Uninstalr_Portable.exe	02-06 14:34:25 --a-----
YUMI-exFAT-1.0.0.7.exe	18,051,766	2022.11.04 11:45:44	=	2022.11.04 11:45:44	18,051,766	YUMI-exFAT-1.0.0.7.exe	02-18 12:11:03 --a-----
DesktopOK\							
DesktopOK.exe	878,856	2025.02.14 15:35:14	=	2025.02.14 15:35:14	878,856	DesktopOK.exe	02-07 14:29:34 --a-----
readme.txt	329	2025.02.14 15:35:13	=	2025.02.14 15:35:13	329	readme.txt	11-14 16:02:33 --a-----

Files found: 12 (Identical: 12, Different: 0, Unique left: 0, Unique right: 0)

Selected: 0 of 89.3 M, files: 0 of 10, folders: 0 of 1

d:\original>

View F3 Edit F4 Copy F5 Move F6 Directory F7 Delete F8 Terminal F9 Exit Alt+X

Double Commander 1.1.28~787

Files Mark Commands Network Tabs Favorites Show Configuration Help

d 9.5 G free u 7.6 G free

d:\original

Name	Ext	Size	Date	Attr
[..]		<DIR>	2025-08-28 13:38:23	d-----
[DesktopOK]		<DIR>	2025-05-29 14:08:54	d-----
APCUG-Speakers-Bureau	pdf	233.5 K	2025-05-24 15:17:59	--a----
BOD-Report	docx	17.8 K	2025-08-22 13:51:47	--a----
DoubleCommander-1.1.28.x86_6..	exe	10.0 M	2025-08-27 14:36:33	--a----
PatchMyPCHomeUpdater	log	40.1 K	2025-05-07 14:46:53	--a----
PatchMyPC-HomeUpdater	msi	52.4 M	2025-02-06 14:34:25	--a----
rufus-4.4	exe	1.4 M	2024-02-18 12:11:03	--a----
secteerSetup	exe	2.1 M	2024-02-07 14:29:34	--a----
thunderbird_contacts	pptx	401.1 K	2024-11-14 16:02:33	--a----
Uninstalr_Portable	exe	5.6 M	2024-05-03 15:24:06	--a----
YUMI-exFAT-1.0.0.7	exe	17.2 M	2022-11-04 11:45:44	--a----

Selected: 0 of 89.3 M, files: 0 of 10, folders: 0 of 1

d:\original>

u:\original

Name	Ext	Size	Date	Attr
[..]		<DIR>	2025-08-28 18:21:44	d-a-----
[DesktopOK]		<DIR>	2025-02-14 17:07:26	d-----
APCUG-Speakers-Bureau	pdf	233.5 K	2025-05-24 15:17:59	--a----
BOD-Report	docx	17.8 K	2025-08-22 13:51:47	--a----
DoubleCommander-1.1.28.x86_6..	exe	10.0 M	2025-08-27 14:36:33	--a----
PatchMyPCHomeUpdater	log	40.1 K	2025-05-07 14:46:53	--a----
PatchMyPC-HomeUpdater	msi	52.4 M	2025-02-06 14:34:25	--a----
rufus-4.4	exe	1.4 M	2024-02-18 12:11:03	--a----
secteerSetup	exe	2.1 M	2024-02-07 14:29:34	--a----
thunderbird_contacts	pptx	401.1 K	2024-11-14 16:02:33	--a----
Uninstalr_Portable	exe	5.6 M	2024-05-03 15:24:06	--a----
YUMI-exFAT-1.0.0.7	exe	17.2 M	2022-11-04 11:45:44	--a----

Selected: 0 of 89.3 M, files: 0 of 10, folders: 0 of 1

View F3      Edit F4      Copy F5      Move F6      Directory F7      Delete F8      Terminal F9      Exit Alt+X

Share

# CrapFixer



CrapFixer

- Tool for Windows 11 system tweaking
  - removes bloatware
  - disables forced ads
  - improves privacy by disabling telemetry
  - optimizes performance through registry & policy edits
- Free, user-friendly, open source, and transparent
- Reversible changes minimize risk of system instability
- Caution:
  - while you can see exactly what **CrapFixer** is doing
  - and can reverse changes
  - effects of some changes may not be immediately apparent
  - **CrapFixer** may be most appropriate for more advanced users

Platform Solutions Resources Open Source Enterprise Pricing

builtbybel / **CrapFixer** Public

Notifications Fork 68 Star 1.4k

Code Issues 6 Pull requests 1 Discussions Actions Security Insights

main

Go to file Code

Commit	Message	Time
Belim	Update to 1.18.200 ✓	5a54950 - last month 202 Commits
CFixer	Push 1.16-dev_branch	2 months ago
docs	Update to 1.18.200	last month
icons	Add tools .ico	2 months ago
plugins	m Update zoicware @https://git...	2 months ago
.gitattributes	Update .gitattributes	3 months ago
.gitignore	Create .gitignore	4 months ago
CFixer.sln	Push 1.1-prev	3 months ago
LICENSE	docs: update LICENSE and READ...	3 months ago
README.md	Update README.md	2 months ago
STORY.md	Create STORY.md	3 months ago

**About**

Crap Fixer

crap fixer belim

Readme MIT license Activity Custom properties 1.4k stars 36 watching 68 forks Report repository

**Releases 22**

CrapFixer 1.18.200 Latest on Jul 9

+ 21 releases

**Packages**

No packages published

**Contributors 4**

Belim Belim peter9811 Peter GurucharanSavanth Gurucharan S Zacgamingpro1234

**Languages**

C# 86.7% PowerShell 8.6% HTML 3.6% JavaScript 1.1%

**README** MIT license

it's called CrapFixer. let that clean in <https://t.co/UP2iLnAgif#CrapFixer> #Windows #Windows11 #app #microsoft pic.twitter.com/...

— Belim (@builtbybel) April 30, 2025

**Crap Fixer – Fixes the crap Windows leaves behind.**

The tool that says what everyone's thinking

Remember the days when you'd run a registry cleaner even if you didn't really need it? (Or maybe we did need it? I was probably too young to figure that out - too young for that crap 😂)

Back then, cleaner tools like CCleaner were everywhere; it felt like every other tech forum had a "top 10 Windows Optimizers" list.

You'd think that stuff would be over by now with sleek, modern OSes like Windows 11. Well, it's built in Windows, so it's not like you can just delete it.

Details

**CrapFixer 1.18.200** Latest

Compare

Belim released this Jul 9 - 1 commit to main since this release

1.18.200 289b2b5

**CrapFixer now includes its own small, modern "Policy Editor" meet NAppClean.exe**

If you're an admin or just prefer a more structured way to apply your tweaks, you can optionally use this tool. It's basically the same app under the hood, just packaged a bit differently – a kind of policy-style frontend for CrapFixer.

You can also download NAppClean as a standalone tool from the project page: <https://github.com/builtbybel/NAppClean>

CrapFixer just got a little more powerful, so whether you're a casual user, a tinkerer, a gamer, a nerd, or an admin...I got you covered 🤖

NAppClean.exe is already included in the CrapFixer archive.

**Love the app? Consider supporting its development with a donation**

Your support helps keep the project alive and improving, every bit makes a difference.

[Donate via Paypal](#) | [Ko-fi](#)

**Assets 3**

CrapFixer.zip 142 KB

Source code (zip)

Source code (tar.gz)

Jun 28

Changes

Voluntary donation

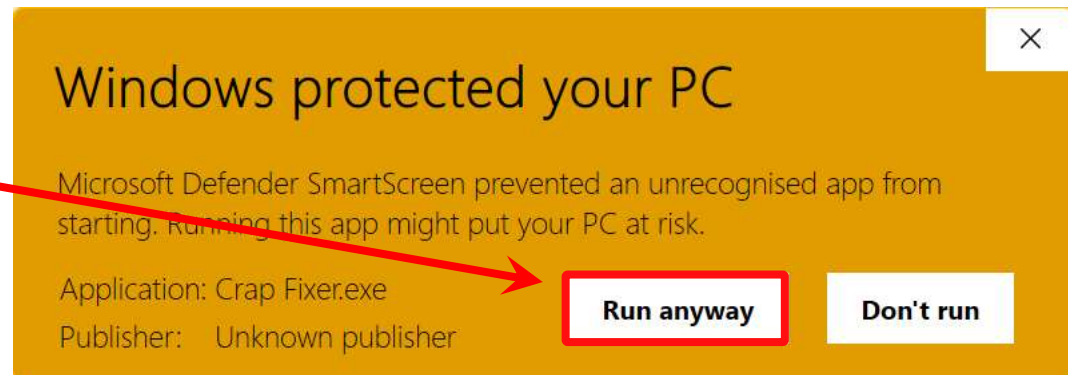
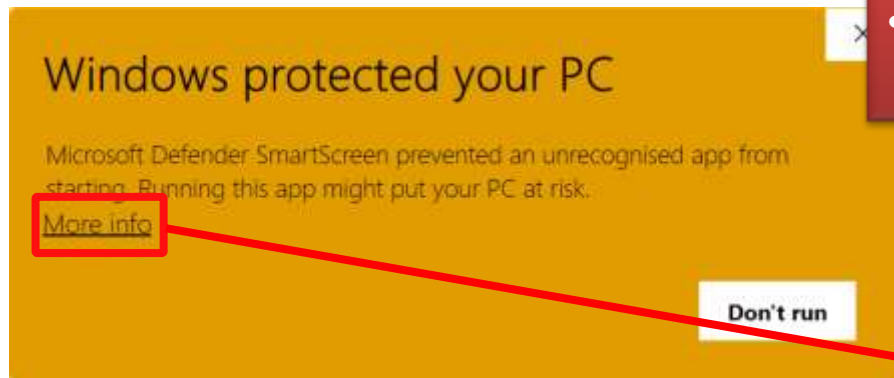
Download

Share

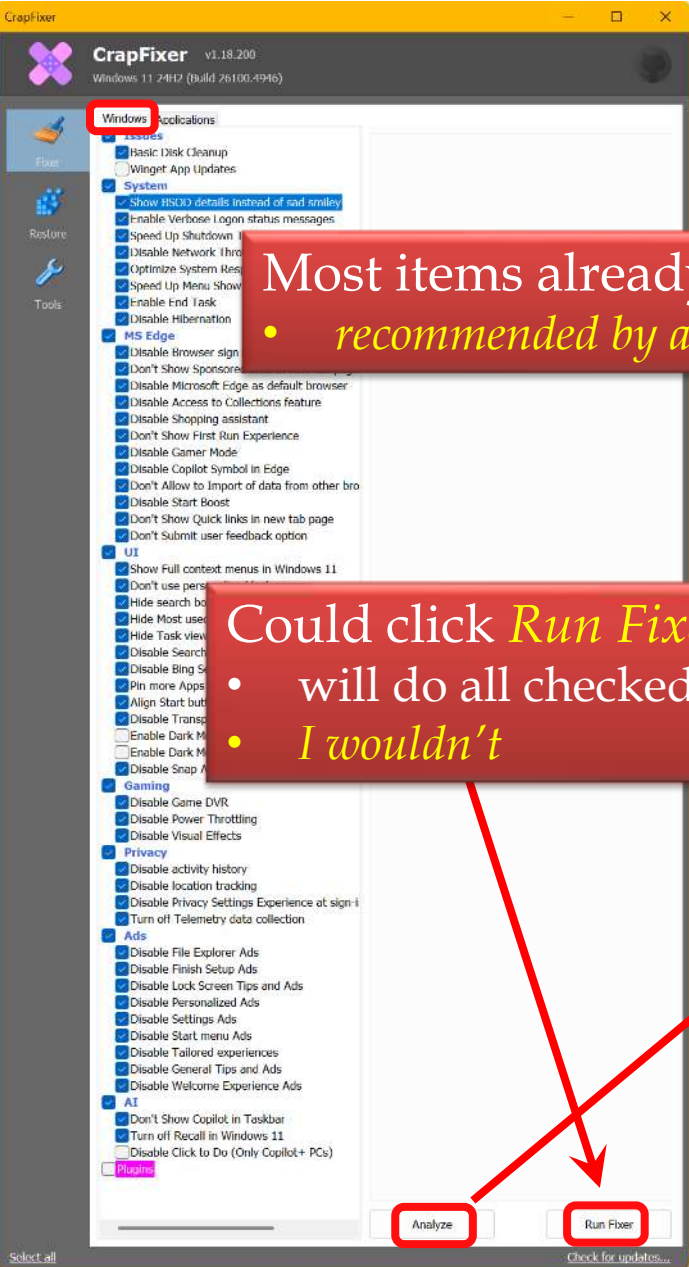
# Running the program

- Check for malware
  - after downloading *CrapFixer.zip*
  - upload *CrapFixer.zip* to <https://virustotal.com>
- Unzip *CrapFixer.zip*
- Right-click *Crap Fixer.exe* & *Run as Administrator*
  - some fixes can only be done as Administrator

- Windows warning just means it is unknown
- But you checked it at VirusTotal
  - *right??*



# Share



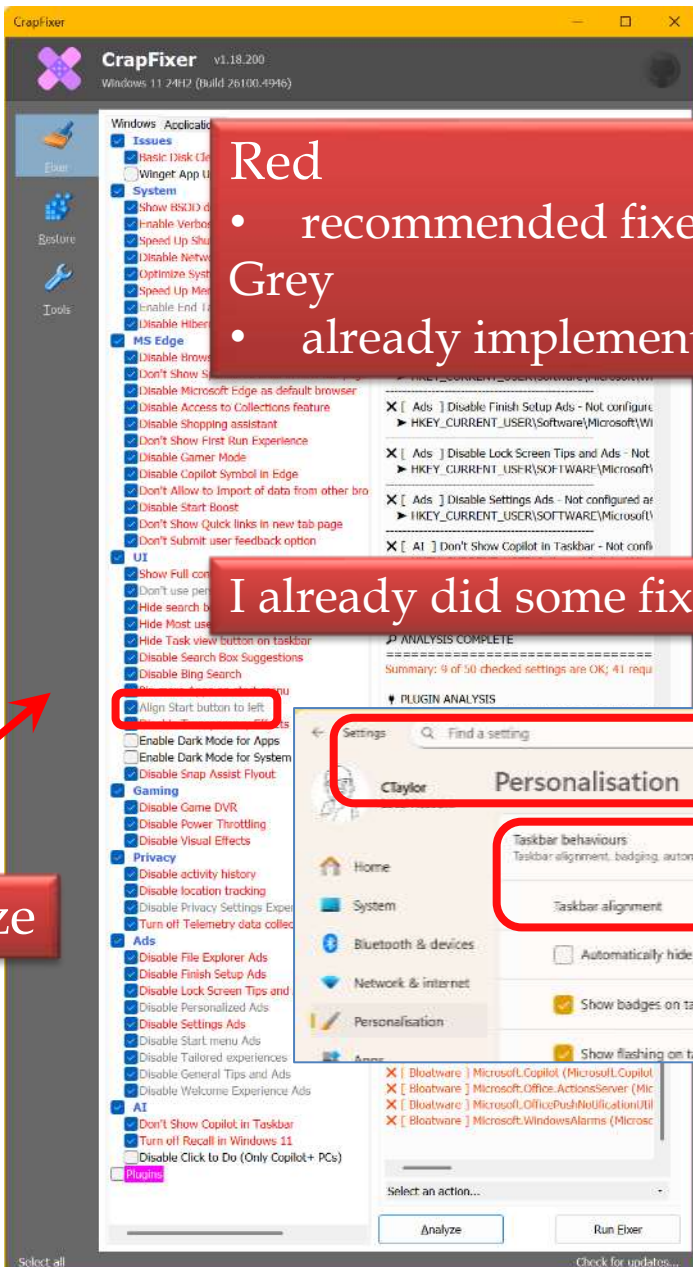
Most items already selected

- recommended by author

Could click *Run Fixer*

- will do all checked items
- I wouldn't*

Click Analyze



Red

- recommended fixes

Grey

- already implemented

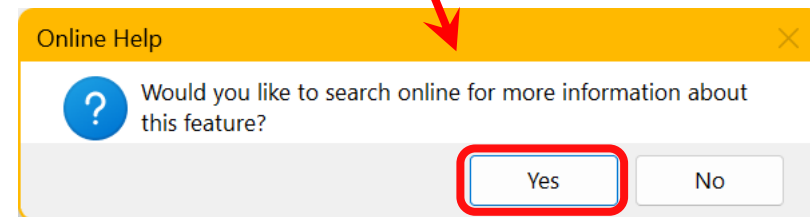
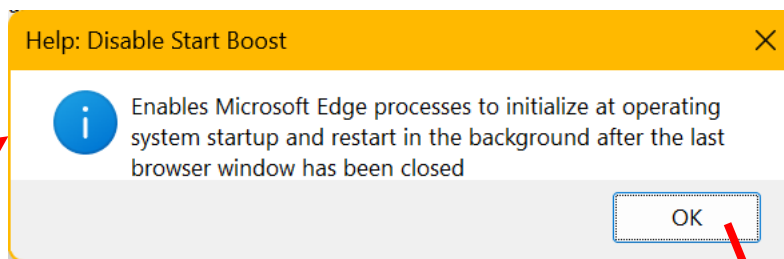
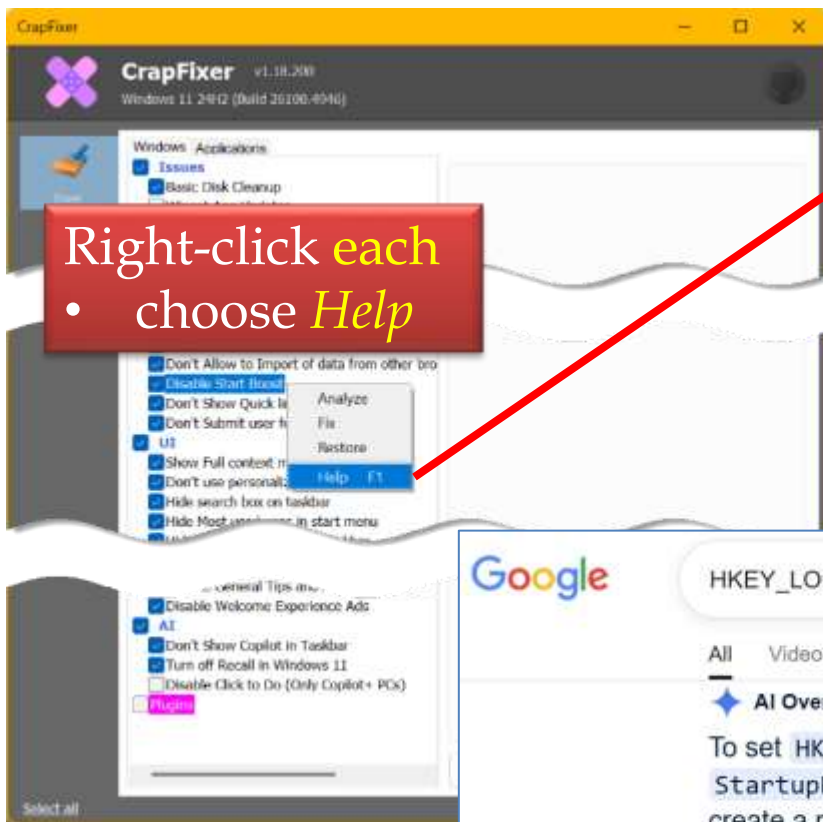
I already did some fixes other ways

Share

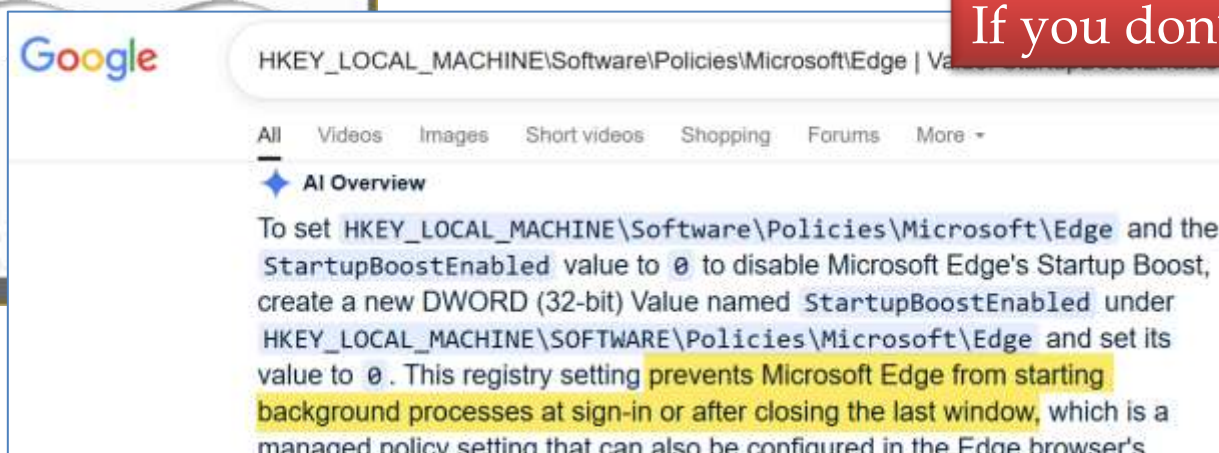
# Check each item

*to see if you want that fix*

Right-click each  
• choose *Help*



If you don't understand it

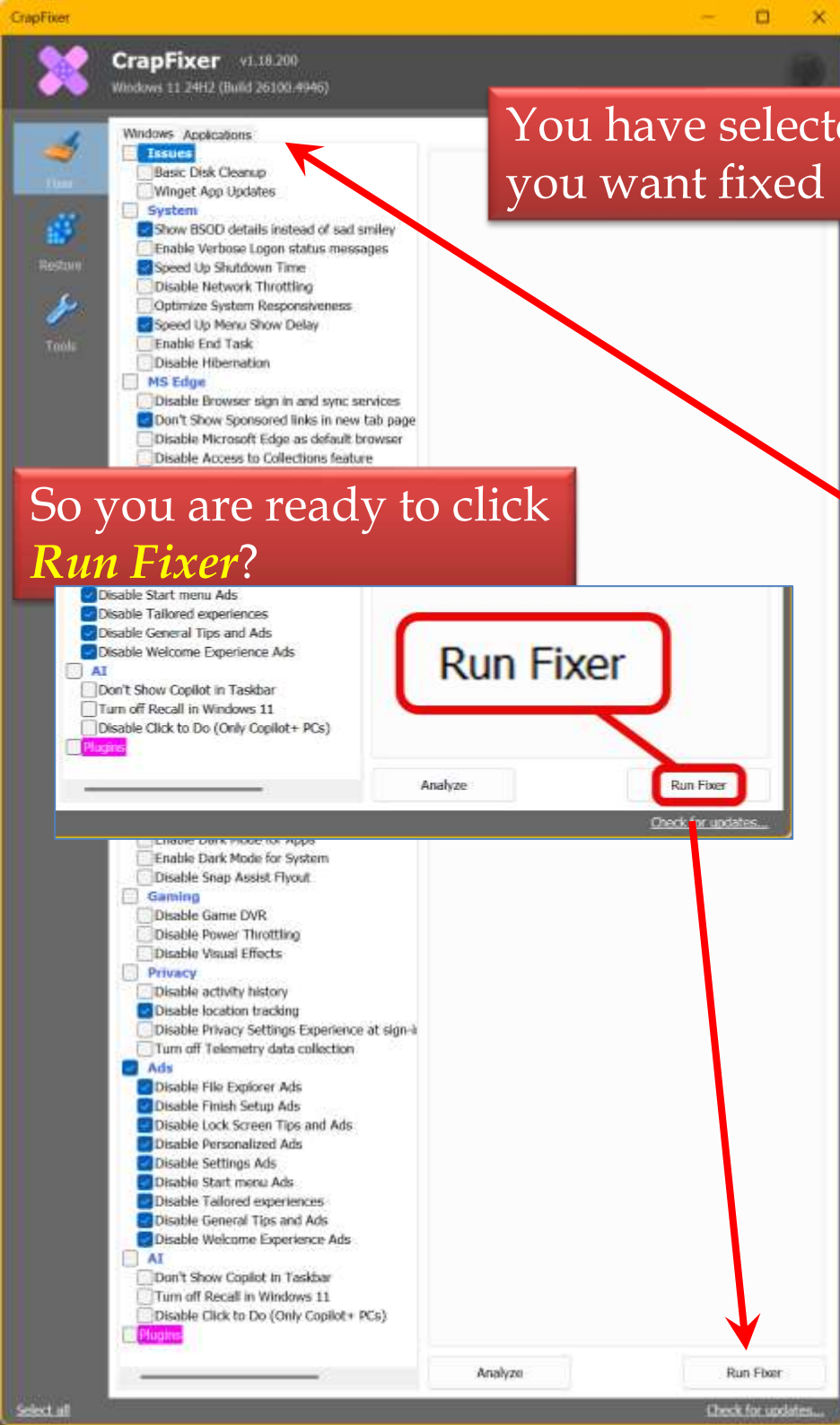


If you use Edge, maybe automatically running is a good thing

- don't enable this in CrapFixer

If you don't use Edge, definitely not a benefit to have running in background

- enable this in CrapFixer



You have selected all the items you want fixed

Not yet!

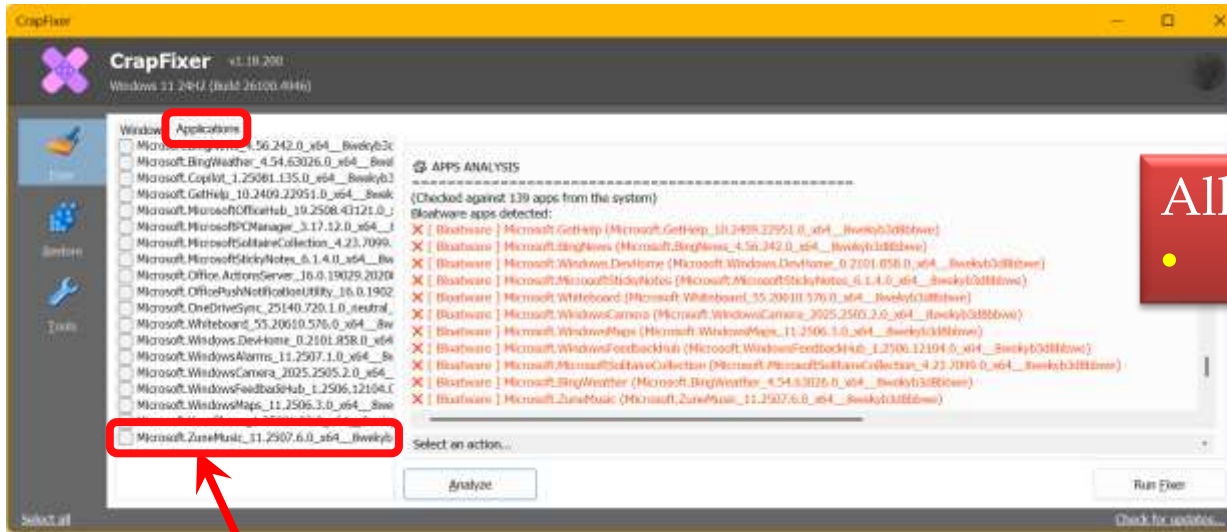
- Two tabs
  - Windows
  - Applications

Clicking *Run Fixer* does both



Share

# Removing Windows Store apps



All disabled by default  
• i.e. none will be removed

Does *anyone* use Microsoft Zune Music?

Select any you want uninstalled

Share


# Ready to Run Fixer


Now that you have selected all fixes **you want**


- click **Run Fixer**

**CrapFixer** displays results

Change from **Windows** tab

 Don't Show Copilot in Taskbar - Fixed

 Removing app: Microsoft.ZuneMusic\_11.2507.6.0\_x64\_\_8wekyb3d8bbwe...  
Successfully uninstalled app: Microsoft.ZuneMusic\_11.2507.6.0\_x64\_\_8wekyb3d8bbwe

 Removed Store App: Microsoft.ZuneMusic\_11.2507.6.0\_x64\_\_8wekyb3d8bbwe  
App cleanup complete.

Change from **Applications** tab

Share

# Reversing changes

Deselect everything *except* the change(s) you want set back to Microsoft default

Click *Restore*

Restore Selected Features



⚠ This will restore all selected features to their original state. Changes made by previous configurations may be reverted.

Are you sure you want to proceed?

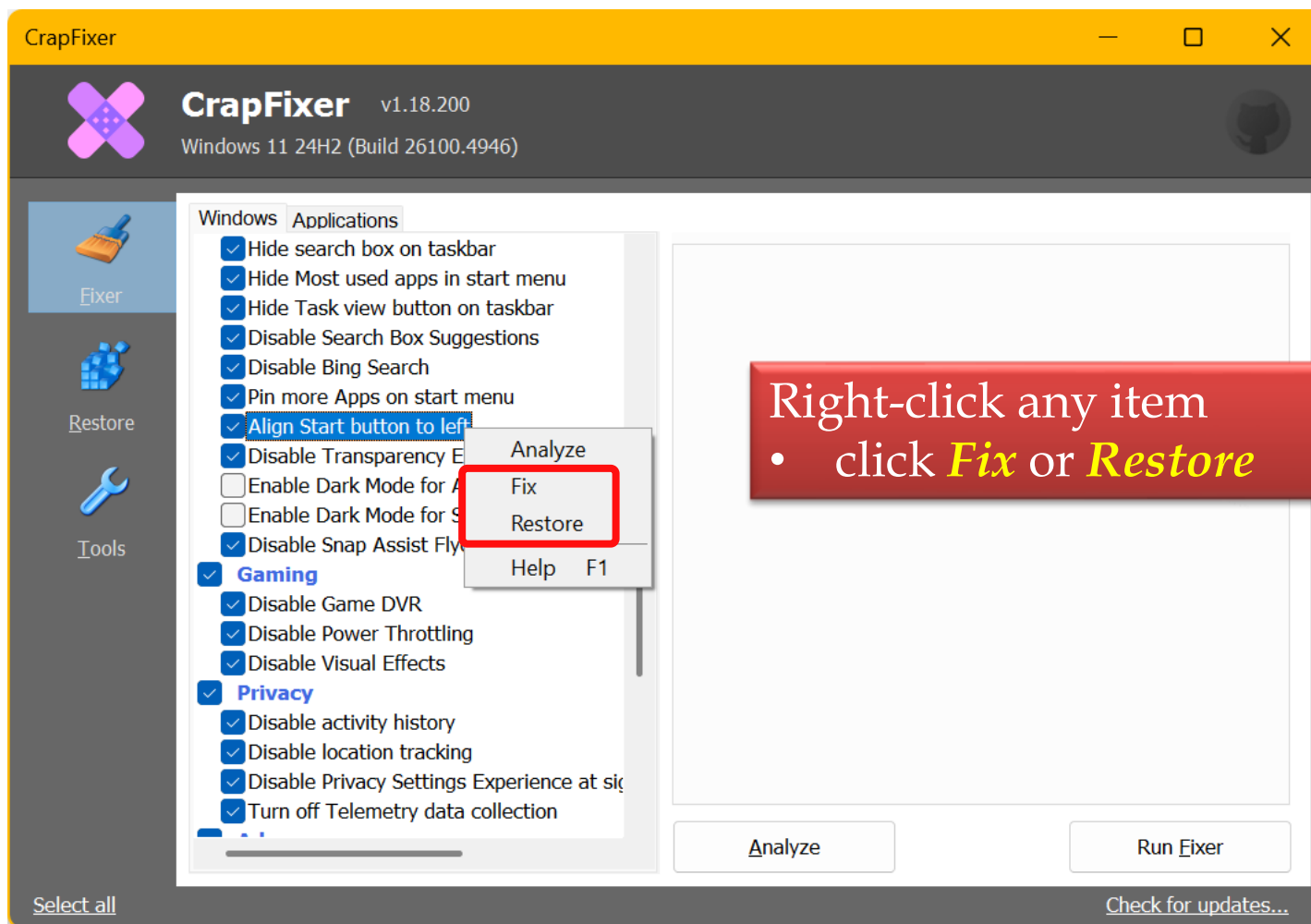
Yes

No

[ MS Edge ] Disable Start Boost - Restored  
[ UI ] Disable Search Box Suggestions - Restored  
[ UI ] Disable Bing Search - Restored  
[ UI ] Align Start button to left - Restored  
All selected features have been restored.

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# *Fixing/restoring* individual items



The screenshot shows the CrapFixer application window. The title bar reads "CrapFixer" and the version is "v1.18.200". Below the title bar, the operating system is identified as "Windows 11 24H2 (Build 26100.4946)".

The main interface is divided into a left sidebar and a main content area. The sidebar contains three sections: "Fixer" (with a broom icon), "Restore" (with a puzzle piece icon), and "Tools" (with a wrench icon). The "Fixer" section is currently selected.

The main content area is titled "Windows Applications" and contains a list of system settings. The "Align Start button to left" item is selected, and a context menu is open over it. The context menu options are "Analyze", "Fix", "Restore", and "Help F1". The "Fix" and "Restore" options are highlighted with a red box.

A red callout box with white text is overlaid on the right side of the application, stating: "Right-click any item" followed by a bullet point: "click *Fix* or *Restore*".

At the bottom of the application window, there are two buttons: "Analyze" and "Run Fixer". In the bottom left corner, there is a link "Select all". In the bottom right corner, there is a link "Check for updates...".

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# Cautions

- CrapFixer doesn't allow reversing of Store App removals
- Can be reinstalled
  - from Microsoft Store
  - using WINGET
  - using a PowerShell script
  - search web for “how to install...given app”
- Due to Windows updates potentially reverting or conflicting with some changes, compatibility issues could arise
- Review each tweak
  - opt only for changes you comprehend
- Keep record of changes
  - if unexpected behaviors: can reverse changes

YouTube video from a user

- <https://www.youtube.com/watch?v=RmnNo9RGRT8>



**Any other:  
Questions  
Comments  
Shares?**

# Computer Basics



Memo to: [SuggestionBox@Dopcuq.ca](mailto:SuggestionBox@Dopcuq.ca)

My wish list is as follows:

1.

2.

3.

**Battle of the Titans?  
But there is an option...**

## **Protecting your PC**

Chris Taylor

Carlingwood Branch, Monday September 22, 2025 at 6:00pm

## **Windows 10 End-of-Life - What's Next?**

Alan German

On-line (Zoom), Monday September 22, 2025 at 6:30pm

## **Artificial Intelligence (AI): fun and useful tips**

Chris Taylor

Ruth E. Dickinson, Tuesday, September 23, 2025 at 2:30pm

<https://opcug.ca/mec-category/opl-presentations/>

# September Meeting



## Windows 10 End-of-Life What's Next?

**Alan German**  
*Ottawa PC Users' Group*

**September 10, 2025**  
**7:30 pm**





No Q&A on  
September 10  
(Monthly Meeting)



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

[SuggestionBox@opcug.ca](mailto:SuggestionBox@opcug.ca)