PC MONITOR

Durham Personal Computer Users' Club Newsletter



DPCUC General Meeting

Our Club meets monthly on the second Thursday of each month.
All meetings are currently held using Zoom.

We hope some day in the future to be able to meet in person again.

Please visit the Club Web Page for all the latest links and information http://www.durhampc-usersclub.on.ca/

FYI 2 President's Message 9 Linux in the News 10 Linux – What is Linux 11 Sudoku Puzzles 15 Special Interest Groups 16

Next Meeting

Passwords 2025

hosted by Peter Camilleri

On ZOOM - Thursday, May 8 2025, 7:00PM

FYI

- By Dan Delong

Evergreen Mag – powerbank

Thirty seven percent of the components in this German engineered power bank are from recycled sources, including the aluminum shell, the plastics, and the battery metals. At end of life, this device also becomes, recyclable. It's a magnetic model, designed to stay with the phone, extending battery duration considerably, whether wirelessly (preferred) or with a USB-C wired connection. [5000mAh battery]



https://www.zdnet.com/article/every-power-bank-sthin hould-be-more-like-this-one-for-the-sake-of-our-future/

Re-use Old Devices

Lots of obsolete hardware can be re-purposed. For example, an old phone can still function for calls to 911, or it can be loaded up with music, to play in the car via Bluetooth. Or, it can even become a media controller for Roku and Fire devices, by downloading an appropriate app. Old smart phones can also be filled with games, playable offline. They can also be used as motion sensing security cameras, able to transmit video on the LAN. Tablets can become e readers, and photo frames.

[This advice came Chattanooga, Tennessee]

 $\frac{https://www.local3news.com/local-news/what-the-tech-dont-toss-it-ways-to-repurpose-old-tech-gadgets-this-earth-day/article_7d1a946f-2d3e-402e-bded-ea2ffa8a4b6a.html$

If It's Broken, Fix It

As the cost for new devices rises, why not look into repairing them first? In Miami, in May, a special conference meets annually, for just this purpose – **The Gadget Repair Expo** (meant for those who are in the repair business). For computer only repairs, lots of online DIY tutorials are available, or go for a Canadian company... even the well-named, UN-reviewed, Toronto based, **Fix It Canada** (with many broken links).

One official Fix It website has been around for a long time. It is... https://www.ifixit.com/ My preferred local business, for general electronic repairs, is Gillco Electronics Inc., or LPC for just computer repairs.

End of May

That's the expected arrival of pre-tariff Chinese cargo ships, to the United States, carrying the last batches of electronics, at lower prices. Unless ships, in the future, start docking at Canadian ports, with similar cargo, expect prices to take off.



Shelves may also soon empty.

YunQiDeer Frameo

This item is for those who wish to buy an inexpensive, 10.1-inch, Wi-Fi digital photo frame, that is also able to play fifteen second videos. This particular picture frame also has zooming, editing for captions, and brightness settings. Yahoo recommends a \$50USD/\$70CDN price. Unfortunately it is an Amazon online product (unless you go directly to a **Canadian reseller**).

[NOTE:- Prices on Amazon may hold, for the time being, as <u>Amazon</u> is now pressuring suppliers to reduce costs in order to avoid higher tariff prices. <u>Temu</u> has already raised prices.]

 $\underline{https://tech.yahoo.com/deals/article/mothers-day-gold-one-of-the-best-digital-photo-frames-weve-tested-is-50-thats-45-off-213648409.html$

Stay Safe Online

The American National Cybersecurity Alliance operates a website with warnings about scams. One such scam, affectionately called ,"Pig Butchering", involves seemingly accidental contact with victims by way of phone, text, or chat, resulting in long term grooming of the individual, cajoling them to invest in "can't lose" opportunities. Another scam involves artificial intelligence, which can recreate the voice of someone you know (otherwise known as the "grampa" call). AI is so good nowadays that it can even recreate the person's face, along with the voice and facial expressions. This website goes on to describe several false beliefs about Cybersecurity.

https://www.staysafeonline.org/

American \$20,000 EV Pickup – Slate

The Slate (all are trucks, with slate grey plastic body panels) are highly simplified vehicles. Hence, the lower price (at least for the first run of these trucks) along with some financial help from government rebates. Even the structural frame components are not steel; they are thick extruded plastic.

[Reminds me of how toy cars are made.]

Although these vehicles pass all safety standards (including collision avoidance/detection, automatic braking, rear camera, seat belts, and crash zones) it will not have a touch screen, power windows, nor a radio or speakers. No other colours than grey are offered, because this plastic may not hold paint well. The dealer, or owner, can apply glossy, coloured, plastic wrap, at extra cost, post-sale. Unpainted body panels are also better able to withstand bumps and scrapes.

[Remember, Henry Ford's Model T cars were far simpler, and became cheaper as the years went by, selling in numbers into the millions, similar to early Commodore computers... (because the average family could afford them!)] The Slate pickup truck's current range of 150 mile on a charge will improve, as will the number of models. The truck bed can hold full 4×8 plywood sheets.

[By the time this newsletter reaches readers, Slate will have become common knowledge.]

https://www.theverge.com/electric-cars/656270/slate-truck-bloat-size-weight-safety-tech

More Browsers Coming

Each AI developer may soon offer a **smart browser** – one that capitalizes on features special to each company supplying them, whether large companies or smaller projects. Once a proprietary browser interacts "intelligently" with every website you visit, it can predict how the user should interact further with each website. The trick here is for each browser company to get their own proprietary browser installed on a new phone series as the default, just as Google services are currently pre-installed on Android phones. "**Comet**" is the browser soon to be released by Perplexity. "**Operator**" is authored by OpenAI, and "**Mariner**" is coming from Google.

https://www.theverge.com/command-line-newsletter/656599/perplexitys-ceo-on-fighting-google-and-the-coming-ai-browser-war

World's Soundscapes

This project involves making high quality audio recordings in both natural environments and in human habitations, all over the World. Before these sounds change further, or disappear completely, they can be enjoyed by anyone accessing this site, none of which are yet in Canada...

https://citiesandmemory.com/heritage/

Fusion Energy by 2030?

The answer is..."Maybe". Recent developments, by three separate nuclear fusion companies, may make it so. No longer are they using magnetic **tokamaks** for plasma containment, but a newly simplified **stellarator** magnetic containment, achieved via software design and faster, modern computers.

https://www.youtube.com/watch?v=e7hw0aC1BbI

2025 Motorola Flip – 3 new models

Motorola flip phones are not new, but two of the new models add attractive (and expensive) features, like better cameras, longer battery life, AI integration, more memory,...

This article also compares the Motorola Flips with their main competitor...

https://www.tomsguide.com/phones/live/motorola-razr-2025-launch-live

Ford's Better Battery

I expect every car maker has a research department looking for a lighter, cheaper, higher density battery. Ford research has achieved this with new chemistry- a lithium manganese rich mixture. This better battery may enter production in about five years.

https://www.autoconnectedcar.com/2025/04/ford-long-range-battery-lithium-manganese-rich-lmr-chemistry-safer-increased-range/

Powerfoyle Solar

If it uses small consumer batteries, **Powerfoyle** can help. This flexible solar energy belt-like material can help manufacturers create lower power devices that lessen, or remove, the need for batteries. Examples are, headphones, remote controls, and bike helmets that contain audio or rear red lights. Energy is generated by "artificial photosynthesis" using Dye-Sensitized Solar Cells. It works well in low light conditions.

https://www.powerfoyle.com/

In other news from Sweden comes another flexible, stretchable, battery that looks like toothpaste. Yielding a smaller voltage than typical batteries – only 0.9 volts – and a 500 charge recycle, it may not end up in vehicles, yet it has many other uses.

This soft, toothpaste-like battery could revolutionize your tech

There's more; the University of Cambridge's Howe Lab has created real artificial photosynthesis that is more efficient than nature, when it splits water into hydrogen, converts CO2 into methane/ethanol, and stores solar energy as electricity.

Biochemistry of photosynthesis | Howe Lab

Since its nuclear disaster, Japan has moved relatively quickly to solar, employing super solar panels made with **perovskite** technology. Japan suffers a land shortage, so these efficient panels will be mounted on building walls and will span some roadways.

Japan's Solar Super-Panel—More Powerful Than 20 Nuclear Reactors! – Engineerine

In the United States, MIT researchers seek to make a common building material – mortar – become a super capacitor for storing electricity. The mix they are testing uses cement, salt, water and soot (carbon black).

MIT engineers create an energy-storing supercapacitor from ancient materials | MIT News | Massachusetts Institute of Technology

Insta360-X5

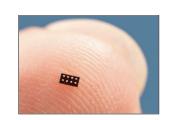
The **Insta 360-X5** is the most recent evolution of Insta360s, now with 8K 'surround video' at 30fps (5.7K at 60fps) better low light/night recording, and a longer lasting battery. Accompanying software is able to focus on just one segment of the 360 degree field of vision and remove the visibility of a selfie stick's shaft. An optional clip-on microphone delivers clearer voice recording. Demonstration videos generally focus on athletic action, but this camera would just a successfully record from a drone, on an ATV, on a watercraft, or during a hike/walkabout. Best Buy Canada is taking pre-orders.

Kit bundles range in price from about \$750-\$900 CAD, without an SD card.

Insta360 X5 - Flagship 8K 360° Action Camera - All Day, All Angles

MSPM0C1104 MCU

That's a long identifier name for a tiny micro-controller, covering an area of only 1.3 square millimetres, containing up to 16KB of flash memory and a 32-bit Arm Cortex-M0+ CPU. Smaller than a grain of rice and costing only 20 cents per unit, it is designed for compact electronics – perhaps hearing aids and ear buds. Texas Instruments is the manufacturer.



TI introduces the world's smallest MCU, enabling innovation in the tiniest of applications | TI.com

Stopping Light in its Tracks

Freezing light has been accomplished at MIT, on a small scale;- that is, at he extreme nano-scale of light itself. This capture method required exact timing, at the **attosecond** level, or at 10 to the minus 18th of a second. Further understanding may lead to advances in new drugs, gas sensing, biology, and more.

https://news.mit.edu/2021/nanostructured-device-stops-light-its-tracks-0429

Toshiba Aurex AX-RP10 Portable Bluetooth Turntable

At an expected price of about \$200USD, this compact record player should last about 10 hours on battery. As with other lower priced players, it is a belt driven, $33 \ 1/3$ and 45rpm, small, turntable, with a moving magnetic cartridge. It is small and light – about 2.6 pounds (dimensions $11 \times 6 \times 3$ inches). Just plug in some headphones to listen, or send out to a Bluetooth speaker.

https://www.ecoustics.com/products/toshiba-aurex-ax-rp10/

Fudan University – fastest flash memory, by over a million times

Localized large language processing (AI) cannot happen without being able to move large data sets quickly. This new, smaller, faster, low power, non-volatile memory may make local AI possible. With a programming speed of 400 picoseconds (25 billion changes per second)

https://www.fudan.edu.cn/en/2025/0417/c344a145016/page.htm

HD Fury Arcana 4K

Older TVs may not be able send out satisfactory audio via **eARC** (enhanced audio return channel); hence this \$250 dongle that splits off the HDMI audio signal from a television signal and reprocesses it to achieve Dolby Atmos equivalency, the same as eARC, for modern sound bars.



https://hdfury.com/product/4k-arcana-18gbps/

Electrically Conducting Bacteria

So far, only a couple of mud dwelling bacteria have the ability to transfer electrons over distance. They may do so to enable internal chemical changes that provide nourishment at differing levels in the mud... a form of vertical transport of energy. No study of bacterial DNA has been completed, yet.

[Will this discovery lead to a transition, blending biology with hardware and software?] https://www.techexplorist.com/new-species-electrically-conductive-bacteria-discovered/99190/

Zuckerberg Predicts Ray-Ban Takeover

Meta's Ray-Ban glasses, with camera, microphone, and earpiece (or similar augmented reality glasses) will take over from screens (computer monitors and phone screens) in the near future. This means that wearers of these sun glasses will still see the world normally, but will also see projections, or hear additional information, about their immediate surroundings. The AI component, in these glasses, will not only interpret content with computer vision, but will listen to the wearer's voice commands. Pairing with a smart phone would be a necessary component of this more intelligent system.

https://www.aol.com/mark-zuckerberg-mdash-man-made-190916939.html

The Dead Internet Theory

Some theorists are so fed up with AI generated content, especially fake text, fake images, and fake videos, on Facebook, TokTok, and Instagram, they have declared the internet dead. This, because, AI generated content is so difficult to distinguish from "real" trustworthy content.

https://www.cnet.com/home/internet/what-is-the-dead-internet-theory/

Cellular Home Internet

Although smart phones have long been able to 'get' the internet, they could also be turned into a hot spot, for Wi-Fi reception by other nearby devices. Today, most large cell phone companies are selling, or renting, home cellular routers connected to the faster 5G network. Where fibre and cable cannot go, cellular internet is the only solution. 5G is still a lot slower than 'wired', depending on the location of towers and congestion periods, and on how many home devices are connected at the same time.

[I notice that **Rogers Canada** offers 5G cellular hot spot devices, for a both a mobile and fixed locations... \$50/month (preferred customer rate). **Bell** and **Telus** may have matching offers.] https://www.cnet.com/home/internet/what-is-cellular-home-internet/

Exposing Human Emotions – a small device

Normally, we think of exposing our human emotions as a sit-down experience, hooked up to a Lie Detector. Now, AI can analyze galvanic skin responses from a small, hidden, stick-on, device, to predict fear, anger, sadness, and happiness. Psychotherapists could make use of such a device, for patients whose facial expressions are hard to read. [Poker players, take heed.]

[Psychopathic individuals could still stymie such a device. But, they are not treatable anyway.]

https://www.popsci.com/health/wearable-sticker-reads-emotions/

Samsung Galaxy Classic Wrist Watch 8, May Return

This classic watch has a rotating bezel. The following passage is what a **Google AI search** says about the Samsung rotating bezel:-

"The rotating bezel on Samsung Galaxy Watches serves primarily as a navigation tool and a way to interact with the watch's interface. It allows users to move through menus, adjust settings, and even control certain actions like answering calls or dismissing alarms by rotating the bezel. Additionally, the bezel provides a physical, tactile feel, which some users prefer over solely using the touchscreen."

https://www.techradar.com/health-fitness/smartwatches/the-samsung-galaxy-watch-8-seems-set-to-bring-back-the-classic-and-it-might-even-make-me-switch-from-my-garmin

Ruling Against the 30% Apple Store Fee

An American judge has ruled, for a second time, against surcharging, when a buyer decides to pay outside of the Apple system. Apple was able to scare buyers into staying "on-site" by indicating that going to another payer's site was insecure, when this was not necessarily the case.

[Since credit card companies also gather a buyer's fee, purchasing through Apple could add a much larger chunk than expected... i.e.;- equalling more than a third of the base price.]

 $\underline{https://www.engadget.com/big-tech/court-orders-apple-to-stop-collecting-fees-for-purchases-made-outside-the-appstore-110036376.html}$

Iris Scan for Verified World ID

Anyone who has tried to verify their own identity with the Canada Revenue Agency may appreciate the idea behind this eye scanner, currently in use in six large US cities. Since an iris print is so unique, Sam Altman (chief of Open AI) thought it best to create the eye scanner (and software) in a portable device – the **Orb**. It's less invasive than the arm tattoo given to Jews by the Nazis, and, perhaps, more foolproof. The **Orb Mini**, from the oddly named "**Tools for Humanity**" project, and financed by **World** (formerly Worldcoin), must use technology similar to bit coining, for verification.

 $\underline{https://www.engadget.com/cybersecurity/sam-altmans-eyeball-scanning-id-technology-debuts-in-the-us-130032856.html$

Moby Gratis – Free Music

Moby Gratis offers 500 mostly instrumental songs, with more to come, in all genres and moods, for those who wish to supplement video creations with an audio track. The author places only a few restrictions on usage, both relating to his lifestyle and political stance. He does not want to contribute to any right wing political ads, or to non-vegan eating styles. Downloads are in three formats... stereo mp3, stereo way, and multitrack way. Each musical piece can be downloaded and is accompanied by an online player, showing beats per minute and total duration.

https://mobygratis.com/

DPCUC President's Notes

by Peter Camilleri

Well it's Spring. I can tell because the Forsythias are in bloom and green buds are finally starting to appear on trees.

As I write this, it is World Password Day. The AI says:

"World Password Day is observed on the first Thursday of May each year, with the aim of raising awareness about the importance of strong passwords for online security. It encourages individuals to strengthen their passwords and adopt better password management practices."

This even more appropriate since the topic for this month's general meeting is passwords. It's 2025, how has this most ancient and basic security tool evolved? We will begin with a presentation and then open the floor for all members to discuss how they use passwords and what applications they think are helpful to them.

OK; So three years ago I wrote:

"Finally, in the wide world, I cannot believe that this insane war continues into it's third month as the people of Ukraine fight bravely to save their country. As before, we can only hope and pray that sanity is restored soon, but the toll in human suffering continues unabated."

On the plus side, the US has finally decided to support its ally rather than its enemy. At least for now. In exchange, Ukraine has had to give up a staggering fortune in mineral rights. Russia remains uninterested in any peace deal that does not include the total conquest of Ukraine.

It feels so futile but all I can still say is "Pray for Peace".

Peter Camilleri, President DPCUC.

Linux in the News

by Alex Morrison



Marker: A Free and Open-Source Markdown Editor for Linux

Marker is a free and open-source markdown editor for Linux, built on GTK3. It offers a dual panel for reading and writing basic to extended markdown syntax, along with other additional features.

openSUSE Leap 16 Enters Public Beta Testing with Agama Installer, Linux 6.12 LTS 3 Comments

openSUSE Leap 16 is now available for public beta testing with the new Agama installer and based on SUSE's Adaptable Linux Platform (ALP).

<u>LibreOffice 25.2.3 Office Suite Is Now Available for Download with 68 Bug Fixes 0 Comments</u>

LibreOffice 25.2.3 is now available for download as the third point release to the latest LibreOffice 25.2 office suite series with 68 bug fixes.

Thunderbird 138 Adds New Default Color Override for High Contrast Mode on Linux 0 Comments

Thunderbird 138 open-source email client is now available for download with new default color override for High Contrast mode on Linux and other changes. Here's what's new!

Firefox 139 Is Now Available for Public Beta Testing, Here's What to Expect 0 Comments

Firefox 139 open-source web browser is now available for public beta testing with various new features and improvements. Here's what to expect!

Celebrating 20 Years of the OASIS Open Document Format (ODF) Standard Document Foundation; By Document Foundation (Posted by bob on May 2, 2025 3:04 PM CST) Story Type: Press Release; Groups: Standards

Today, The Document Foundation joins the open source software and open standards community in celebrating the 20th anniversary of the ratification of the Open Document Format (ODF) as an OASIS standard. Two decades after its approval in 2005, ODF is the only open standard for office documents, promoting digital independence, interoperability and content transparency worldwide.

Full story Read more

0 threads and 0 posts

Linux – What is Linux



As a departure from my usual column I asked ChatGPT to write a small article about Linux.

The article below is the output.

Understanding Linux: An Open-Source Operating System

Linux is a family of open-source, Unix-like operating systems that has become one of the most powerful and versatile platforms in the world. Initially created by Linus Torvalds in 1991, Linux has grown into a global ecosystem used across various devices, from smartphones and desktops to servers, supercomputers, and embedded systems. This article delves into the history, features, and impact of Linux, as well as why it remains a popular choice for developers, businesses, and hobbyists alike.

The Origins of Linux

The story of Linux begins with Linus Torvalds, a Finnish computer science student at the University of Helsinki. In 1991, Torvalds announced the creation of a free operating system kernel, which he called "Linux." This was based on the Unix architecture, which had already proven to be a reliable, multi-user, multitasking system developed in the 1970s. Unlike proprietary operating systems like Windows or macOS, Torvalds released Linux under the GNU General Public License (GPL), which allowed anyone to view, modify, and distribute the source code for free.

The release of Linux was revolutionary because it democratized access to an operating system. Developers could customize and improve the kernel, contributing to a decentralized model of software development that was unique at the time. Over the years, thousands of contributors from all over the world helped evolve Linux into a robust, secure, and highly adaptable operating system.

Key Features of Linux

1. Open Source and Free Software

One of the defining characteristics of Linux is that it is open source. This means that its source code is freely available to anyone, allowing for transparency, customization, and collaboration. Linux is distributed under the GPL, which ensures that anyone who distributes the software or derivative works must also make the source code available. This open approach fosters a vibrant community of developers and users who continuously improve the system.

2. Stability and Security

Linux is renowned for its stability and security. It is designed to be highly efficient, handling tasks like file management, memory allocation, and process scheduling with minimal overhead. This makes it particularly suitable for mission-critical applications, such as web servers and supercomputers. Moreover, Linux's security model is robust, featuring built-in tools such as SELinux (Security-Enhanced Linux) and iptables for network security. Linux is less prone to viruses and malware compared to other operating systems, which is why many enterprises and government agencies choose it for their servers.

3. Customizability

Another hallmark of Linux is its flexibility. Since it is open-source, Linux can be modified to fit the specific needs of the user. There are various Linux distributions (distros), such as Ubuntu, Fedora, Debian, and Arch Linux, each catering to different use cases. Whether you are building a personal computer, setting up a web server, or creating a custom embedded device, there is a Linux distribution that can meet your requirements. Advanced users can even create their own distributions by tailoring the components to their needs.

4. Multi-User and Multi-Tasking

Linux is built on the foundation of Unix, which was designed to handle multiple users and processes simultaneously. Linux can run many applications concurrently, making it an excellent choice for servers and workstations where resource efficiency and multitasking are critical. The Linux kernel uses a preemptive multitasking model, ensuring that no single process can monopolize the system's resources.

5. Command-Line Interface (CLI)

Although many Linux distributions provide a graphical user interface (GUI) for ease of use, the heart of Linux is its command-line interface. The CLI allows for powerful and precise control over the system, enabling users to perform tasks more efficiently. While the CLI might be intimidating to beginners, experienced users and administrators prefer it because it offers faster access to system functions and fine-grained control over operations. Additionally, scripting languages like Bash allow users to automate tasks, making Linux an ideal platform for system administrators.

Linux in the Modern World

Today, Linux powers a vast array of devices. It is the operating system behind most of the Internet's infrastructure, with many web servers running Linux-based distributions like CentOS, Ubuntu Server, or Red Hat Enterprise Linux. Linux also dominates the realm of supercomputing, where it is used to control the majority of the world's fastest supercomputers. According to the TOP500 list, which ranks the world's fastest supercomputers, over 90% of them run some version of Linux.

In the world of smartphones, the Android operating system—based on the Linux kernel—has become the most widely used mobile platform globally. Android, which accounts for the vast majority of smartphone sales, leverages Linux's stability and performance while providing a user-friendly interface. Moreover, Linux is commonly found in embedded systems, such as smart TVs, routers, and IoT (Internet of Things) devices.

The desktop Linux market, while not as dominant as Windows or macOS, has steadily grown over the years. Distributions like Ubuntu, Mint, and Fedora offer user-friendly desktop environments that cater to both beginners and experienced users. In particular, Ubuntu's ease of use has made it one of the most popular Linux distributions for home users.

Why Choose Linux?

1. Cost-Effective

Since Linux is free to download and use, it presents a significant cost-saving opportunity, especially for businesses and educational institutions. There are no licensing fees associated with using Linux, unlike Windows or macOS, where users must pay for licenses. This makes Linux a compelling choice for organizations looking to reduce IT expenses.

2. Community Support

Linux benefits from a large and passionate community of users and developers. Whether you are troubleshooting a problem, learning how to use a new tool, or seeking advice on system configuration, the Linux community is a rich resource for support. Forums, online documentation, and dedicated websites like Stack Overflow and Ask Ubuntu provide a wealth of knowledge.

3. Performance and Efficiency

Linux's performance is one of the key reasons why it is favored for servers and high-performance computing tasks. Linux is highly efficient in terms of resource management, requiring minimal system resources to run effectively. This allows older hardware to run modern software without the performance issues often encountered with resource-heavy operating systems.

Conclusion

Linux has come a long way since its inception in 1991. From a hobbyist project to a global operating system powering everything from smartphones to supercomputers, Linux has proven itself as a reliable, secure, and flexible alternative to proprietary operating systems. Its open-source nature, stability, customizability, and strong community support make it an attractive choice for individuals, developers, and organizations looking for a powerful and cost-effective operating system. Whether you're a novice user or a seasoned system administrator, Linux offers a vast ecosystem to explore and utilize, making it an invaluable tool in today's technology-driven world.

FREE Linux Wallpaper from MXLinux



Sudoku

May 2025

by Alex Morrison

EASY

			2			7		4	
		7		5				1	
	2		1					9	
	2 3 5	1		2	5	6			
	5						4		
7	8	6			e e				
8							9		
			3						
3					4	2	8		

Sudoku

The game boards on this page were produced using **Sudokuki** on PC Linux 64 Bit running KDE Plasma.

The objective is to fill in the missing numbers ensuring that every 3 X 3 grid has the numbers 1 through 9 with no repeats and every full column or row has the numbers 1 through 9 again with no repeats.

If you have troubles solving the puzzles send an email to me and I will send you the solution.

Have fun! Alex

MED

							7	3
	9				8			
7		1		3		6		
			4		3		5	
3		4						
					5		8	
		7				1	4	6
				6 9				
2				9				

HARD

4	6				5	9	
1			9	5			
	2						
					4		3
		2 3			1	7	
8		3	2 6				
			6	9	8		
						3	
		4	1	8	2		

IF you don't Like Sudoku puzzles – try these pages

https://www.boatloadpuzzles.com/playcrossword

https://www.cryptograms.org/play.php

SPECIAL INTEREST GROUPS SIG's

Special Interest Groups are for members only.

SIG's are really free monthly seminars with question and answer sessions following the presentation(s)

Members of SIG's enjoy a feeling of community and share common goals and interests

Most SIG's are informal and members who attend them set the agenda for the meeting based on their own needs.

Special Interest Groups

Durham Linux User Groups

Coordinator: Ed Goudge

Our Linux group meet on the first Thursday of every month.

All meetings are currently held using Zoom.

We hope some day to meet again in person.



DPCUC EXECUTIVE

2022-2023

President Peter Camilleri peter.c.camilleri@gmail.com 289-928-1579
Vice-President Anne Delong annedelong@timetraces.com 905-623-6975
Secretary/Treasurer Mark Hunter mark.s.hunter6605@gmail.com 905-924-2196
Membership/Publicity David Odynski odynskid@sympatico.ca 905-576-6325

Librarian Dan Delong dandelong@timetraces.com 905-623-6975
Program Director TBA

Newsletter Editor Alex Morrison dpcuc@rogers.com 905-579=1560

Director at Large David Swain david@swainracing.com



HOME PAGE

--- http://www.durhampc-usersclub.on.ca/

Newsletter Information PC Monitor is the official publication of the Durham Personal Computer Users' Club and is published monthly at Oshawa, Ontario.

The DPCUC mailing address is dpcuc@live.com

The PC Monitor cannot be responsible for errors or inaccuracies in the content, although efforts will be made to publish information accurately.