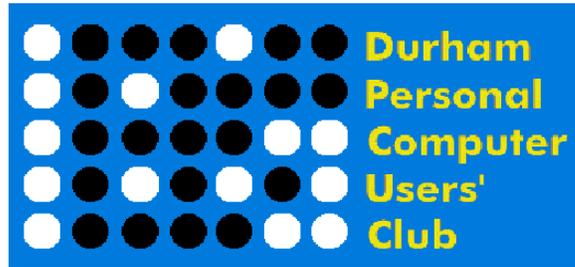


June 2020

PC MONITOR

Durham Personal Computer Users' Club Newsletter



May Prize List

Our Prize list is of course missing this month due to our inability to have a general meeting at the church.

Hope all are doing well and staying safe in this Covid infection scare!

Please visit the Club Web Page for all the latest links and information

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

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Next Meeting

Not Getting Mugged on the Journey to the Cloud

By Steve Patterson
Manager, Systems and Security Operations
For City of Oshawa

ZOOM - Thursday, June 14, 2020 7:00PM

FYI

- By Dan Delong

Shoppers for the Gig Economy

[Prelude: - Our front lawn is often used for dog walking stops. In pre-Covid days, it also collected discarded trash left by high school students.] Curious as to why a guy was sitting under the shade tree in front of the house, I peered out occasionally to check on his activities. Eventually, a blue Toyota Corolla pulled up to the curb. An elderly lady stepped out of the passenger side to receive money from him, in exchange for... **a case of beer!** He started drinking one can, while storing the other cans in his backpack. What I just witnessed was a JITA (Just-In-Time Anywhere) delivery of an essential product, by a local mobile delivery service. Perhaps it works with an app, similar to Uber. *[Unlike Uber, this was a cash transaction, so it may have simply been a phone call, or a Facebook, or an Instagram connection.]* This kind of mercenary, substitute, shopping is more often seen in grocery stores, as is happening in Loblaws stores, where personal shoppers fill-up plastic bins with individual online orders. These shoppers are easily identified, as all carry their orders on smart phones. My local Loblaws is still weeks behind in fulfilling online orders, both pick-up and delivery, and have recently replaced many display areas with these bins. **Instacart**, a shopping & delivery service in the US, has been under fire for low pay and risky working conditions. <https://www.theverge.com/21267669/instacart-shoppers-sick-extended-pay-quarantine-leave-coronavirus>



Covid-19 Testing (opinion)

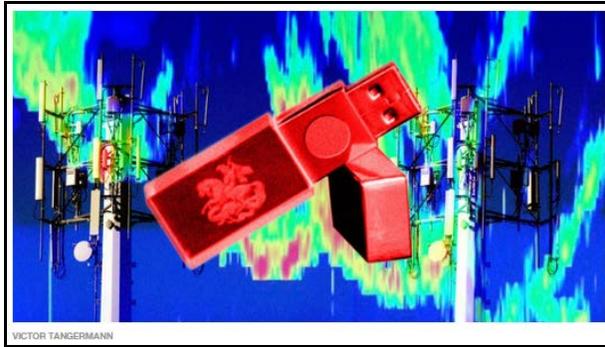
From the very beginning of this pandemic, before it came to North America, the essential ingredient for diagnosing and for monitoring spread required testing... **testing often, and testing of everyone.** What has hampered needed universal testing? At first, it was lab capacity. Labs are dependant on machinery and chemical reagents, both of which were in limited supply worldwide. Not only that, the proliferation of proprietary machines and chemical formulae made it impossible to ramp up testing. Labs simply could not test 24/7, even though politicians demanded they do so! Moreover, governments do not appear forthcoming, with respect to the costs associated with each type of test. *[I could not discover the true cost, or even a ballpark cost, for any type of Covid-19 testing.]* (Perhaps, keeping such costs under wraps will encourage folks to get tested, without worry as to its impact on the country's deficit.) In order to equalize access to testing, in developed and underdeveloped countries, Drug Company profiteering must be squelched (ideally, through patent pooling). This is especially important for one type of test -- the serological test. It tests blood for antibody resistance, in those who have had the virus in their body. One Stanford bio-engineer, **Manu Prakash**, has pushed the idea of "**frugal science**", looking for ways to make protective gear cheaply, eventually doing the same for tests. Both [Forbes](#) and [Wired](#) cover this topic. The status quo – **people avoiding people** – will continue until almost every person (in the World) knows whether they carry an active infection (able to spread the virus), or they have overcome the infection (no longer able to spread it), or a breakthrough vaccine is found. The most recent theory, concerning protection from infection, posits that having had many common cold episodes in the past, from a similar type of coronavirus, offers greater resistance to Covid-19.

Mobile Syrup Watching Canadian Plans

Covid Month/s, might be a good time to review cell phone plans. Mobile Syrup can help. Weekly updates in cell phone plans are posted here. [\[This link is for June 1-7.\]](#)

The website catches anything **new**, and any relevant **ongoing** plan details.

Quantum Tech Protection



Fake news, about 5G causing various maladies, including Covid-19, is convincing enough for some folks to spend \$350 on a fake protective device. The 5GBioShield is just a \$6.00, 128GB, USB stick with a sticker on it.

<https://futurism.com/the-byte/scammers-selling-nonsense-anti-5g-gadget>

Carquon – electric cargo bike



While on the topic of parcel delivery, this prototype, electric bike can carry large items (and children) for a distance of 75 miles on a charge. This allows bicycles to accomplish more of our transportation needs, on those new paths now being installed throughout major cities. The \$5,500.00 USD price tag is a tad high, but is a lot less costly than using a car for short trips. In Canada, such vehicles would be suitable only in areas with milder winters and ploughed streets. Inclement weather (wet, cold, or hot) will put people back into cars.

<https://www.theverge.com/2020/5/26/21269590/carquon-cargo-bike-review-price-specs>

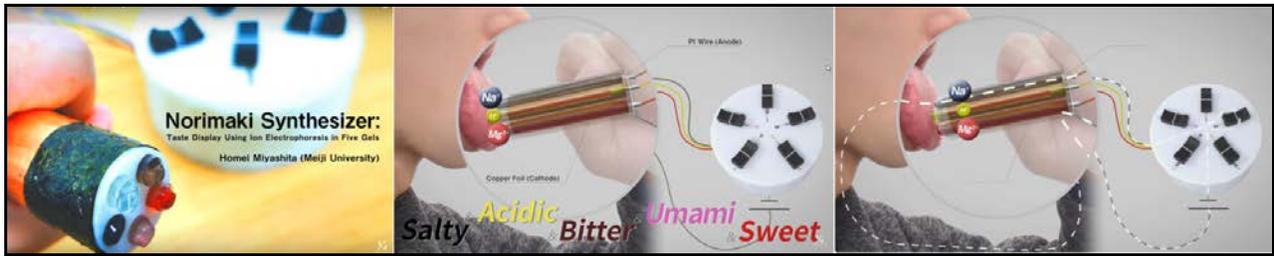
Raspberry Pi 4 Model B 8GB



Compared with earlier Pi 4B models, extra RAM is the main change, although some chips have changes as well. Each re-issue of Pi 4B, has doubled the RAM, starting at 1GB, then 2GB, followed by 4GB, and now **8GB**. Otherwise specs are the same: - 1.5-GHz Quad Core Cortex-A72, Dual Micro-HDMI (Up to 4Kp60), 5V/3A USB type C, 2x USB 3.0 and USB 2.0. Pricing is a guesstimate – around \$80 USD. [Raspberry Pi OS](https://www.raspberrypi.org/documentation/operating-systems/) is the new operating system.

<https://www.element14.com/community/docs/DOC-95130/1/introducing-the-new-raspberry-pi-4-model-b-8gb>

Taste and Flavour Generator



Lick the gel pads while controlling the flow of ions to each of your five taste sensors, in order to simulate the flavour and taste of many foods. No ingestion is happening here, just mild electrophoresis on a wet tongue. In other words, you can get fake tastes while consuming fake news on social media. *[Might even be something brown to go along with the fake news.]* The five sliding, dimmer switches control the amount of electricity sent to each of the five tastes. No news yet, on whether or not fake tasting works to reduce eating quantities, for dieters.

“In testing, the Norimaki Synthesizer has allowed users to experience the flavor of everything from gummy candy to sushi without having to place a single item of food in their mouths.”

<https://research.miyashita.com/papers/I42>

Huawei Matebook X Pro

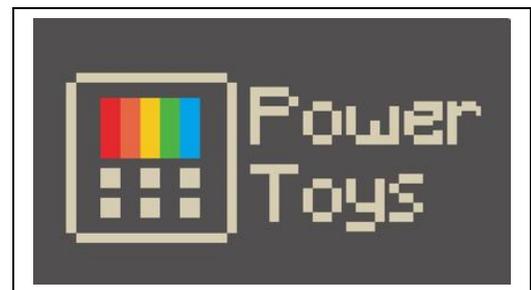


Laptops are getting better and better, if not cheaper. *[Judge for yourself, using the link below.]* The 2020 Matebook X Pro boasts a great many desirable feature, from long battery life, light weight, thinness, 3K screen, superior sound, Nvidia graphics, 10th gen Intel i5 or i7, and a touch screen with 3-finger, screen grab, swiping. One tap on your smart phone app pushes the phone's screen onto the laptop, where full editing of phone contents and use of phone apps can occur. A few drawbacks need consideration. First, only a Huawei phone connects so conveniently to the laptop. Second, the price for a 2020 Matebook Pro in Canada is not yet known, nor is availability, since a few countries have banned Huawei products.

<https://consumer.huawei.com/ca/laptops/matebook-x-pro-2020/>

Windows 10 Power Toys – Revival from Win95

Figure 1 https://en.wikipedia.org/wiki/File:PowerToys_logo.jpg



GitHub developers are, once again, working on some useful Power Toys: - **Fancy Zones** (fence of regions of the desktop), **Keyboard Shortcuts Guide** (hold down Windows Key >1sec.), **Power Rename** (with restore), **Preview Pane** (for preview of more file types), **Image Re-sizer**, **Key Re-mapper**, **Faster App Finder/Launcher**

<https://github.com/microsoft/PowerToys>

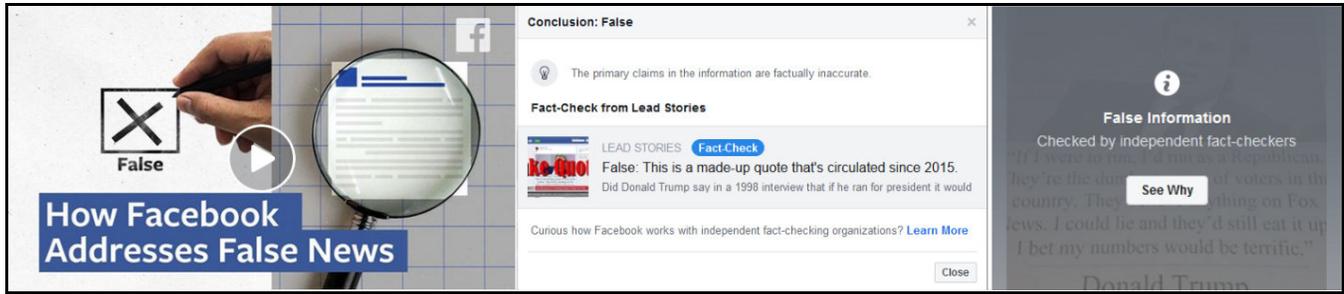
Aston Martin DB5, as in 1964's "Goldfinger"

At 4.6 million CDN dollars each, 25 reproductions of the original James Bond car, complete with many of the original spy gadgets, will be produced by Aston Martin. Although driveable, with a 295bhp 4 litre engine, these cars will not be licensed for the road. During 2 years of original production in the 60s, 900 DB5 road cars were built.

- Rear smoke screen delivery system
- Rear simulated oil slick delivery system
- Revolving number plates front and rear (triple plates)
- Simulated twin front machine guns
- Bullet resistant rear shield
- Battering rams front and rear
- Simulated tire slasher
- Removable passenger seat roof panel (optional equipment)
- Simulated radar screen tracker map
- Telephone in driver's door
- Gear knob actuator button
- Armrest and centre console-mounted switchgear
- Under-seat hidden weapons/storage tray
- Remote control for gadget activation

<https://www.thesportsman.com/articles/aston-martin-start-work-on-the-gadget-laden-2-7m-db5-goldfinger>

Facebook is Hitting Back at False Messaging



Using feedback from users, along with AI, Facebook claims to reduce the distribution of 'lies' by 80%. Once flagged, some of these posts are handed over to third party fact checkers, paid by Facebook. Repeat offenders could be removed from Facebook. One drawback to this process is the time it takes... currently, up to three days. Facebook will try to shorten this delay because wide distribution of false information tends to stick in the minds of readers, as a first impression. The example I found was a rebuttal to a fake story that Trump once said, "...in a 1998 interview that if he ran for president it would be as a Republican because they are the 'dumbest group of voters in the country'." Twitter – much to Trump's ire – is following a similar path, flagging some of his messages as 'false'.

<https://www.facebook.com/help/1952307158131536>

Windows 10 2004

Although given different names during development, 2004 uses the digit-4 to indicate a May release, as compared to the April (3rd month) update. Happily, this newest update will roll out slowly, first to machines that Microsoft finds fully loaded with needed drivers. If you try to manually update now, and your machine is not ready to handle this update, Microsoft will pop up a message explaining why. However, one new feature "Making your sign-in passwordless", is misleading. If you turn on this feature you will need to use, at minimum, a PIN, your fingerprint, or Hello face recognition.

Also, users running virtual Linux and Windows at the same time will find better memory management. *[More at the link below.]*

<https://docs.microsoft.com/en-us/windows/whats-new/whats-new-windows-10-version-2004>

Free Wallpaper for June



Linux in the News

by Alex Morrison



From: <http://lxxer.com/> & <http://www.linuxtoday.com/> <http://www.linuxinsider.com/>
<http://www.topix.com/tech/linux> <https://fossbytes.com/> <https://www.techradar.com/>

Everything OK with Microsoft? Windows giant admits it was 'on the wrong side of history' with regard to open source

The Register (Posted by [bob](#) on May 31, 2020 11:46 PM EDT)

Story Type: [Editorial](#); Groups: [Microsoft](#)

Tell-all with president Brad Smith reveals Obama warned tech giants that a privacy reckoning was coming Microsoft president Brad Smith (pictured) has admitted that the Windows giant was "on the wrong side of history" when it came to open source....

[Full story](#)

[Read more](#)

[0 threads and 0 posts](#)

Rocket.Chat - Free, Open Source, Enterprise Team Chat for Linux

(May 29, 2020, 12:00) ([0 talkbacks](#))

Rocket.Chat is a free, open-source, scalable, highly customizable, and secure platform that allows you to communicate and collaborate with your team, share files, and chat in real-time.

Latest BlackArch Linux ISO Adds More Than 150 New Hacking Tools, Linux 5.6

(May 29, 2020, 13:00) ([0 talkbacks](#))

Coming five months after the previous release, the BlackArch Linux 2020.06.01 ISOs are here packed with more than 150 new tools

Ardour goes harder: v6.0 brings 'huge engineering changes' to open-source digital audio workstation

(May 29, 2020, 15:00) ([0 talkbacks](#))

Dev sticks with elderly GTK+2 GUI toolkit because 'we would gain nothing' by upgrading

Sudoku

June 2020

by Alex Morrison



A Trio of Puzzles again this month – Enjoy

EASY

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

Sudoku

The game boards on this page were produced using **Gsudoku** on PCLinuxOS 64 Bit running KDE 5 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

MEDIUM

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

HARD

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

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

<https://www.boatloadpuzzles.com/playcrossword>

<http://www.freegames.net/puzzle-games.html>

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

Linux – Radio.Garden

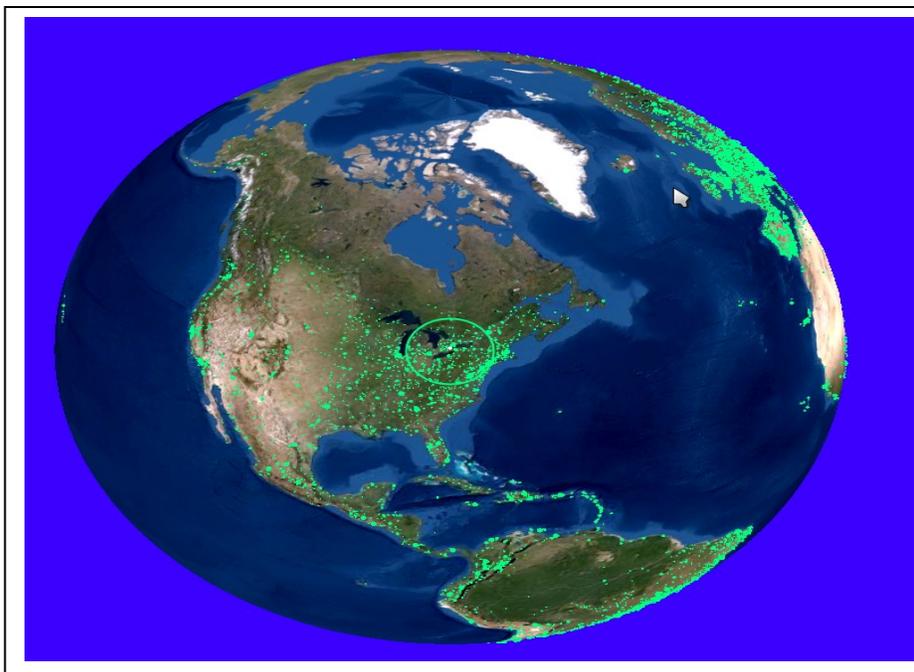
by Alex Morrison



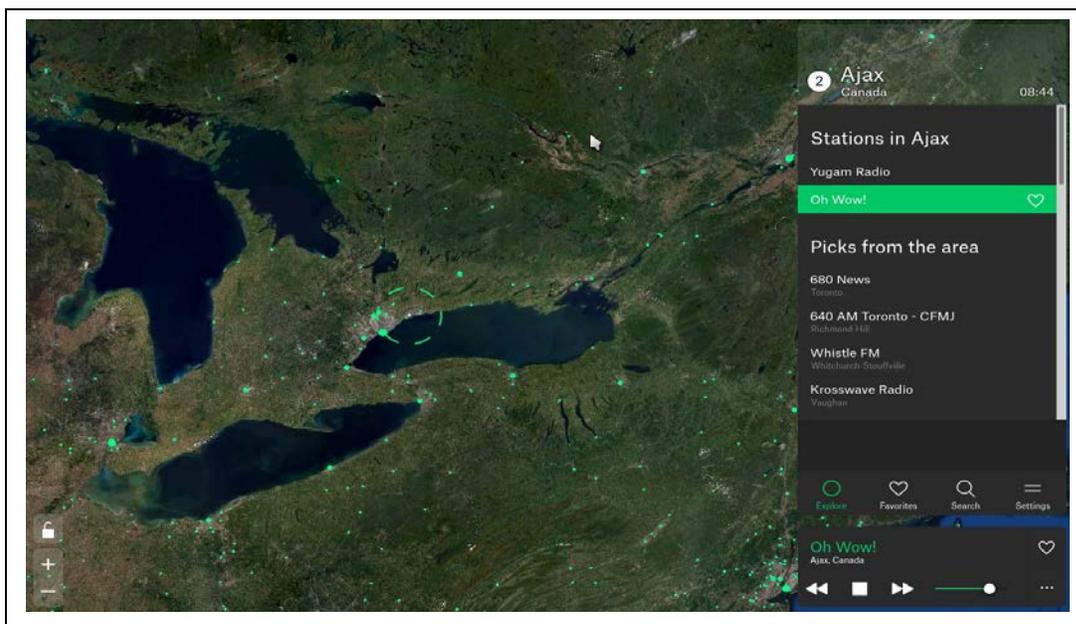
This month I am showing a Web Page as opposed to Linux software. So this site will work on any operating system!

Go to a search in whatever browser you use and look for “radio.garden” and you will find a very nice site for listening to radio from around the world. [<http://radio.garden/search>]

When I say around the world I mean just that. The first thing you see is a globe. Look close and you will see a number of small dots.



You can rotate the globe with your mouse or use the wheel to enlarge or shrink the globe. Clicking on any dot loads and plays the radio station in that area. You will also see other stations close by on the right side as shown below.



The President's Notes +

by Fred Fernbach

The DPCUC President's Notes.

Fred Fernbach as the president of DPCUC will try to make every meeting fun, interested, not long. I will try to get presentation with attracted topics to please the members of DPCUC. Feel free to come and see me privately to express any concerns, complaints, anything to fix any issues while you are in the club meeting. I listen and with the DPCUC Executive will try to correct any concerns from the member and improve the club performance. We have to limit the number of free stuffs to keep the Kitchen back room free access for the Hot Water. The free stuffs will have a 2-3-month rotation.

The DPCUC President's Notes.

Due to Coronavirus also known as COVID-19 Faith United Church is closed until further notice. Our meetings will be held on Zoom until the Church is reopened.

Microsoft to fix Windows 10 bug that prevents updates

By Mayank Parmar - May 26, 2020

<https://www.windowslatest.com/2020/05/26/windows-10-fast-startup-windows-update-isuses/>

Windows 10's Fast Startup, which is a feature that provides a faster boot time when starting up your PC, could prevent updates from installing properly. Fast Startup is enabled by default on most clean installations of Windows 10.

When you shut down your computer, Windows 10's Fast Startup will save some of your system files. Then, when you turn your computer again, Windows will reload the saved files and reduce the boot time.

This feature combines hibernation and shutdown properties to speed up the boot-up experience, which sounds great, but Fast Startup may not be quite as good as you think as it could mess up Windows Updates.

Leaving Fast Startup enabled shouldn't break anything on your PC given the feature is baked into Windows 10, but Microsoft says that Windows 10 updates might not install properly or fail to install if you have this feature enabled on your device.

According to Microsoft, Windows updates could require pending operations to be processed during the next Startup after full shutdown. The pending Windows Update operations won't be processed when you have Fast Startup feature enabled.

“Without a full shutdown, those pending operations won't be processed. As a result, these update installations will not complete. Full shutdown only occurs when you restart a computer or when other event causes the computer to process a full shutdown,” Microsoft said.

In an update to the support document over the weekend, Microsoft quietly revealed that it will release a new version of Windows 10 to address issues with Fast Startup.

“There are plans to address this in a future Windows version,” the company said.

If Windows 10 updates are failing to install on your PC, you can disable Fast Startup and try again. If you'd like to see how your PC installs Windows update without Fast Startup enabled, you can disable it by following these steps:

Open Windows Search

- Type Control Panel and select the result.
- Click Power Options > Choose what the power buttons do.
- In the next screen, click Change settings that are currently unavailable.
- Uncheck the first option "Click Turn on fast Startup (recommended)".

After installing Windows Updates, you can re-enable Fast Startup at any point by simply repeating the steps mentioned above.

Windows 10 May 2020 Update release date, features, and news

By Mayank Parmar - May 17, 2020

<https://www.windowslatest.com/2020/05/17/windows-10-may-2020-update-details/>

Windows 10 May 2020 Update is the major update for Microsoft's constantly-evolving operating system. Also known as Windows 10 version 20H1, the May 2020 Update is another attempt at improving the desktop experience with new features, performance improvements and more.

This update follows in the footsteps of May 2019 Update. Like the last year's major update, it will also introduce a set of new features including WSL 2.0 and other improvements to Windows 10.

In this article, we've gathered every information you need to know about the May 2020 Update.

Key points

- It's the next major 'free' update for Windows 10.
- The rollout will begin between May 26-28.
- All existing devices are supported.

Windows 10 May 2020 Update release date

Windows 10 May 2020 Update was originally supposed to roll out to mainstream consumers on May 12, but Microsoft pushed it back a bit to patch a zero-day security vulnerability.

A leaked schedule revealed that the update will be released between May 26 and May 28, but a rumour suggests that it will happen on May 28.

In the meantime, you can always download and install it by enrolling your PC in the Release Preview ring of the Windows Insider Program.

It's also worth noting that not everyone will get it straight away, which means that if it comes out on May 28, users will be able to get it via Windows Update by the first week of June.

Microsoft will also follow the same "throttled approach to the rollout," so users will be getting it in waves. The first wave begins on May 28 and the update will widely become available in July or later.

While the wait time is frustrating, it's a good idea because it means that issues can be identified and fixed with Windows 10 version 20H1 before it reaches everyone.

If you want to force your PC to download the update on May 28, you should be able to do it with Media Creation Tool, Update Assistant and media image.

The version number and naming scheme

Microsoft is once again using the year and month as the naming scheme for Windows 10 versions. However, in order to avoid confusion with Windows Server 2003, Microsoft has used 20H1, not 2003, to refer to May 2020 Update.

Microsoft Edge (Chromium-based Edge)

After the public rollout of May 2020 Update, Microsoft is also planning to replace legacy Edge with Chromium-based Edge via another Windows Update.

Requirements and compatibility

If you use Windows 10 version 1909 and 1903, you should be able to upgrade to version 2004 without applying any changes to the hardware.

Intel has already released DCH drivers for Windows 10 May 2020 Update and other chipmakers including AMD and Nvidia are planning to add support for the update later this month.

Reserved space is now optional

Windows 10 version 1903 brought with it a controversial feature that reserve 7GB of space on the hard drive to store temporary data and Windows Update files.

The idea is that this will make Windows Update process easier and prevent people from experiencing an error where updates are not installed due to lack of space. While the concept is good, reserved storage consumes up to 10GB of storage and many users don't like Windows 10 consuming additional storage.

Fortunately, you can now finally disable Reserved Storage with the DISM tool in Windows 10 version 2004 or newer.

32-bit system no longer supported on new PCs

On new PCs, Microsoft is ending support for the 32-bit version of Windows 10. The PC manufacturers are now required to ship their devices with Windows 10 64-bit and at least 32GB of internal storage.

10th-generation Intel processors and Ryzen 4000 series are now supported

May 2020 Update also adds support for the 10th-generation Intel processors and as well as the AMD's new Ryzen 4000 lineup for both desktops and laptops.

New icons

Windows 10's May 2020 Update introduces a new set of icons for first-party apps including File Explorer, Notepad, Office, etc. This would work to provide more consistency between Windows 10 and Windows 10X.

Video playback performance improvement

As we have reported previously, Windows 10 version 2004 is a huge upgrade for gamers.

It will bring in Windows Display Driver Model (WDDM) 2.7 to improve video output, video performance, and the refresh rate on multi-monitor setups.

Cloud Download

Microsoft will also make it easier to reset Windows 10 with Cloud Download feature, which allows you to reinstall Windows 10 from a system image that's held online in Microsoft servers.

Windows Search

Windows Search is also getting smarter in this release and it will only index the files when you're not actively using your PC. This should improve the overall performance of low-end systems with HDD storage.

Windows 10 version 2004 support page goes live ahead of launch

By Mayank Parmar - May 27, 2020

www.windowslatest.com/2020/05/27/windows-10-version-2004-support-page-goes-live-ahead-of-launch/

Windows 10 version 2004 (May 2020 Update) will be arriving later this week for many of those individuals and companies not presently using it. This update would be the first major release of the year and it will introduce several improvements and a few new features including Cloud Reset, Cortana app and more.

Microsoft has been gradually preparing for the launch of the May 2020 Update. In April, Microsoft moved the May 2020 Update to the Release Preview Ring, and Intel GPU drivers were also released with support for the feature update.

In a leaked schedule, Microsoft also confirmed that Windows 10 version 2004 will be released on May 27 or May 28.

We are now hours away from the public rollout of Windows 10's May 2020 Update and Microsoft has now published support documents (information pages) on the company's website.

The page titled "Windows 10, version 2004 and Windows Server, version 2004" is currently empty, but in another page, Microsoft says there are no active known issues with the May 2020 Update.

The other support documents for May 2020 Update are also empty and there's no real information available at the moment.

It's very likely that Microsoft will update these pages with actual information including known issues later this year. In a blog post, Microsoft previously stated that the company is aware of at least one issue in Windows 10 version 2004 where the DISM tool reports status incorrectly.

After the October 2018 Update's disastrous launch, which caused many people to lose their data, Microsoft will be supremely cautious with the feature update. May 2020 Update will be rolling out slowly unless you manually force it on your PC.

You can manually install feature updates from Settings > Update & Security > Windows Update. In the Windows Update page, you need to click on 'Check for updates' and tap 'Download and install now.'

However, that option may not appear for everyone as May 2020 Update will be rolled out in phases. That said, if you really need the feature update, you can always get it with Media Creation Tool or Microsoft's Update Assistant.

Articles wanted for the Newsletter!

Write an article for the Newsletter and get an extra month free on your membership renewal.

DPCUC Treasurer Report

Durham PC Users Club
BALANCE SHEET
Unaudited

ASSETS

	2020 Apr 30	2019 Apr 30	
CURRENT ASSETS			
TD Canada Trust General Account		1,221.30	1,793.05
Equipment Fund	2,456.95	2,456.95	
Cash Floats	30.00	30.00	
TOTAL CURRENT ASSETS		3,708.25	4,280.00

OTHER ASSETS

EQUIPMENT			
BenQ Projector	21.90	31.28	
** Computer (Acer Laptop)		0.00	1.00
* Cooler Stand	1.00	1.00	
** Sharp Colour Projector		0.00	1.00
** Epson Printer		0.00	1.00
** Tape Recorder		0.00	1.00
* Storage Cabinet	1.00	1.00	
* Tripod Stand	1.00	1.00	
** Projector	0.00	1.00	
* Projection Screen	1.00		1.00
** Wireless sound system + mic's		0.00	1.00
TOTAL EQUIPMENT	25.90	41.28	
***PRIZES/GRATUITIES ON HAND		382.32	0.00
TOTAL ASSETS	4,116.47	4,321.28	

LIABILITIES

CURRENT LIABILITIES	0.00	0.00	
MEMBER'S EQUITY			
Balance May 1/19	4,321.28	4,318.03	
Increase (Decrease) for Year	(204.81)	3.25	
Balance April 30/20	4,116.47	4,321.28	
TOTAL LIABILITIES & EQUITY	4,116.47	4,321.28	

NOTES:

- * Depreciated items left on the books at \$1.00 to show their existence.
- ** Items no longer in service written off the books this year.
- *** 36 USB Drives

Prepared by:
A. R. Francis, Treasurer

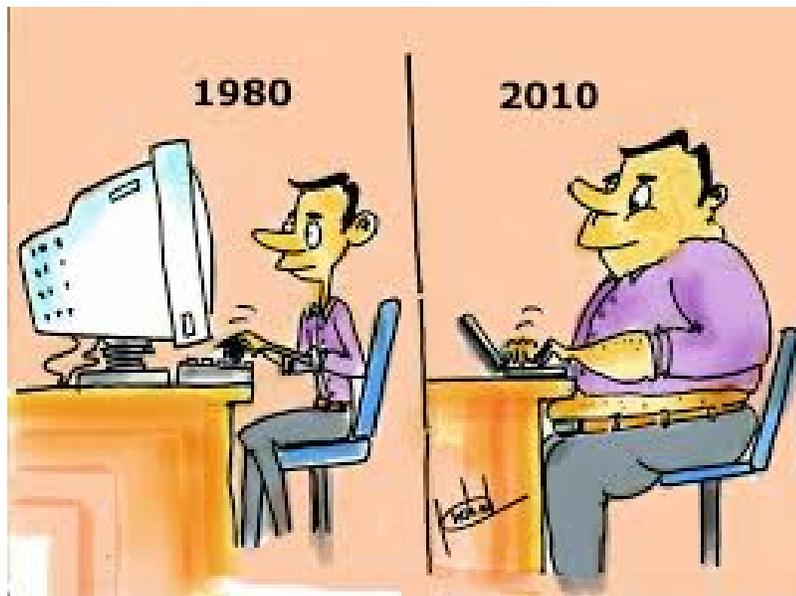
Durham PC Users Club
INCOME STATEMENT
Unaudited

	2020	2019	
REVENUES			
Membership	1,240.00	1,360.00	
Door Prize Draws	197.25	219.00	
Equipment Fund Collection	0.00	37.65	
Miscellaneous	86.25	59.45	
TOTAL INCOME	1,523.50	1,676.10	
EXPENSES			
Executive Expenses	0.00	0.00	
Insurance	108.00	113.40	
Membership Supplies	139.21	67.00	
Merchandise for Gratuity/Sale		148.78	0.00
Postage	42.24	24.00	
Printing	0.00	24.86	
Hall Rental	1,060.00	1,100.00	
Postal Box Rental	214.70	214.70	
Miscellaneous	0.00	115.48	
TOTAL EXPENSES	1,712.93	1,659.44	
DEPRECIATION OF EQUIPMENT		15.38	13.41
NET INCOME/(LOSS)	(204.81)	3.25	

NOTES:

Our General Account balance is presently \$1,221.30 which is a decrease of \$571.75 from a year ago.
 Our Equipment Fund balance is \$2,456.95 which is the same as last year.
 Equipment is depreciated annually at 30% of the prior year's value.
 Our revenue from memberships decreased by \$120.00 this year.
 Membership fees accounted for 81% of our total revenue.

Prepared by:
 A. R. Francis, Treasurer



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.

New ideas for SIG groups are welcome.

Special Interest Groups

Details

BEGINNER

Co-ordinator: Ed Goudge
Location: Call for Location
Telephone: 905-926-9003
Date: 3rd Thursday of month 7:00 PM

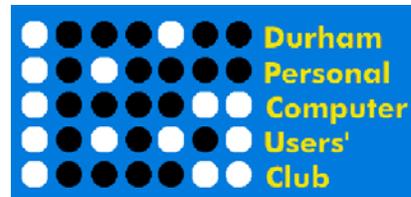
LINUX

Durham Linux User Group

Co-ordinator: Ed Goudge
Location: OSCC 43 John St W
Telephone: 905-926-9003
Date: 1st Thursday of month 7:00 PM

Digital Camera Group

Co-ordinator: Ed Goudge
Location: Call for Location
Telephone: 905-926-9003
Date: 4th Thursday of each month at 7:00PM



**DPCUC
 EXECUTIVE
 2019-2020**

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**Newsletter
 Information**

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