



Q&A

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

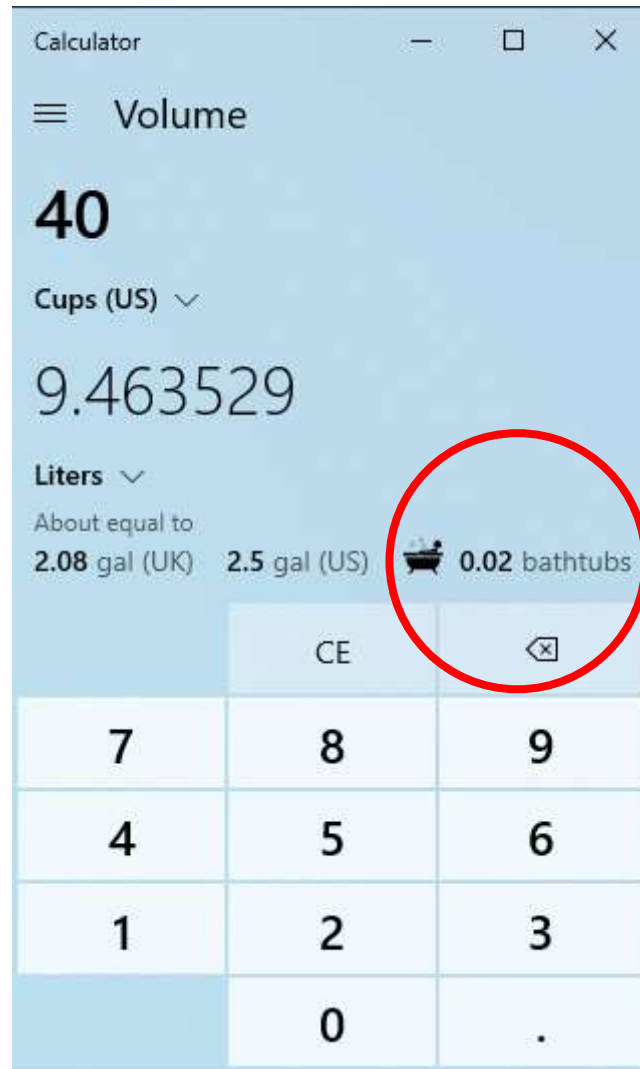
Share

# PowerToys – New Feature



## Follow-up

# Windows Calculator



Just in case you  
need to know...

40 cups is  
equivalent  
to 0.02  
bathtubs!

**Follow-up**

## **Fix for defragging SSD's**

This month's Windows' patch Tuesday is said to include a fix for a long-standing bug where the built-in "Optimize Drives" utility could defrag SSD's on every boot. This affected only people running the May 2020 Update to Windows 10

<https://www.windowslatest.com/2020/09/09/windows-10-update-finally-fixes-optimize-drives-tool/>

**Follow-up**

## **Defragging and TRIM**

Fully electronic operations (e.g. CPU executing instructions, RAM read/writes) are fast.

Electro-mechanical operations (e.g. spinning hard drive platters, moving read heads) are relatively slow.

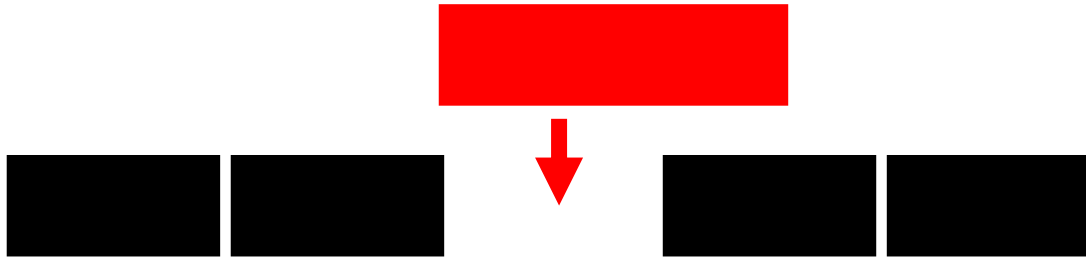


# Defragging

Defragging is used on hard drives (HDD) to consolidate individual blocks of disk space belonging to a specific file so that they are contiguous.

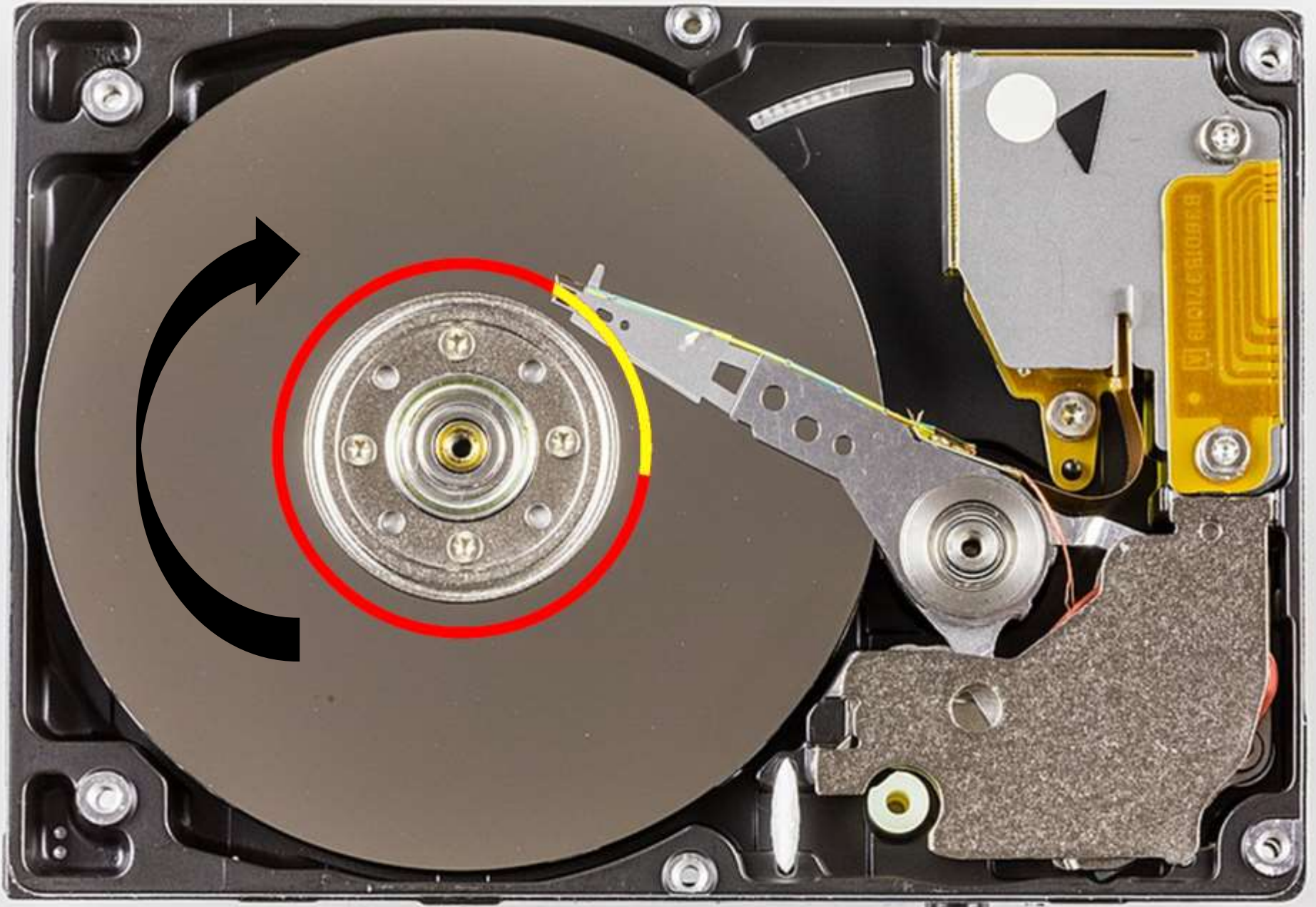
Files can become fragmented if the OS can't fit the entire file into a single section of the disk.

**Store file on disk, but...**

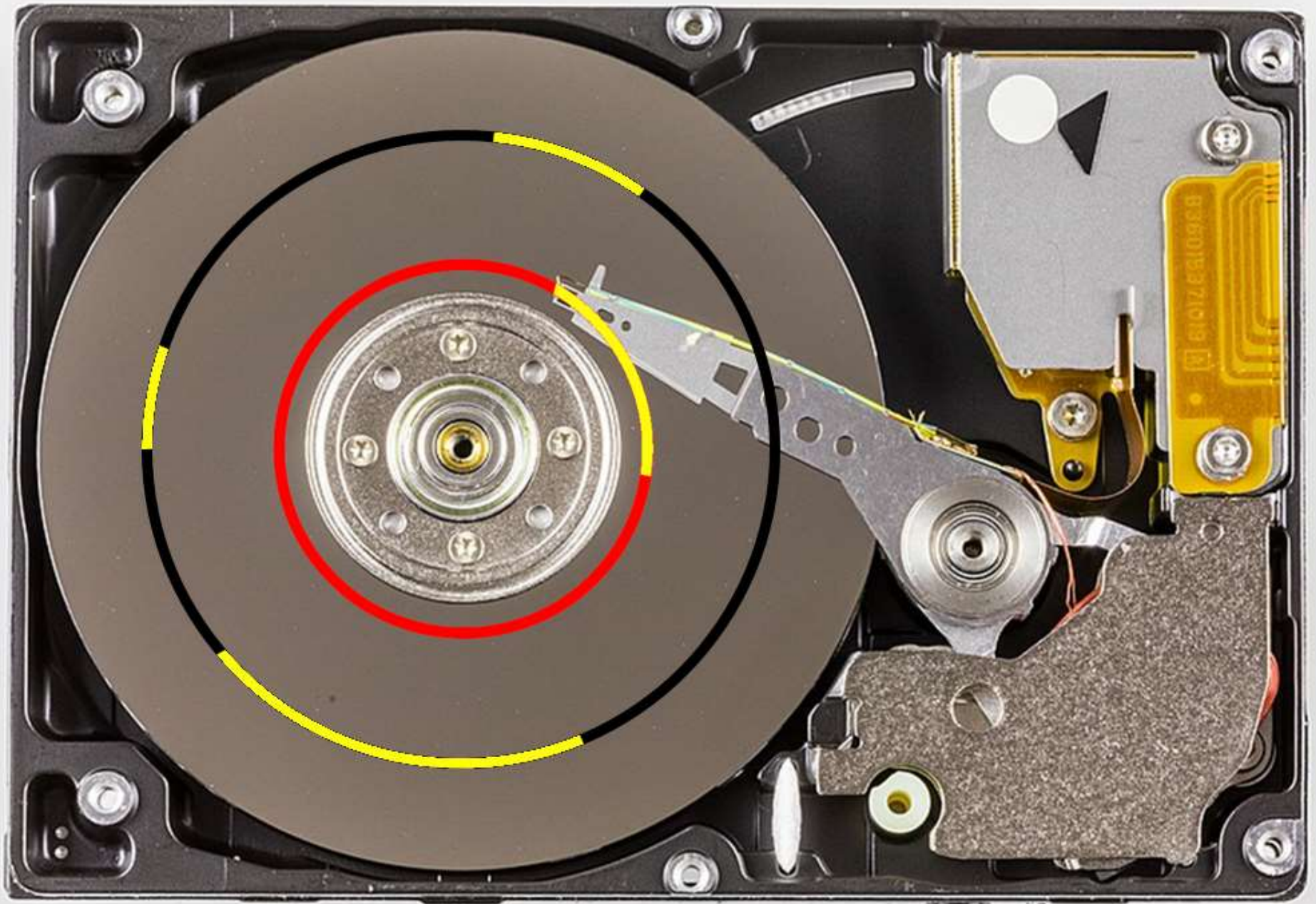


**File becomes fragmented!**





Base HDD image © Raimond Spekking / CC BY-SA 4.0 (via Wikimedia Commons)

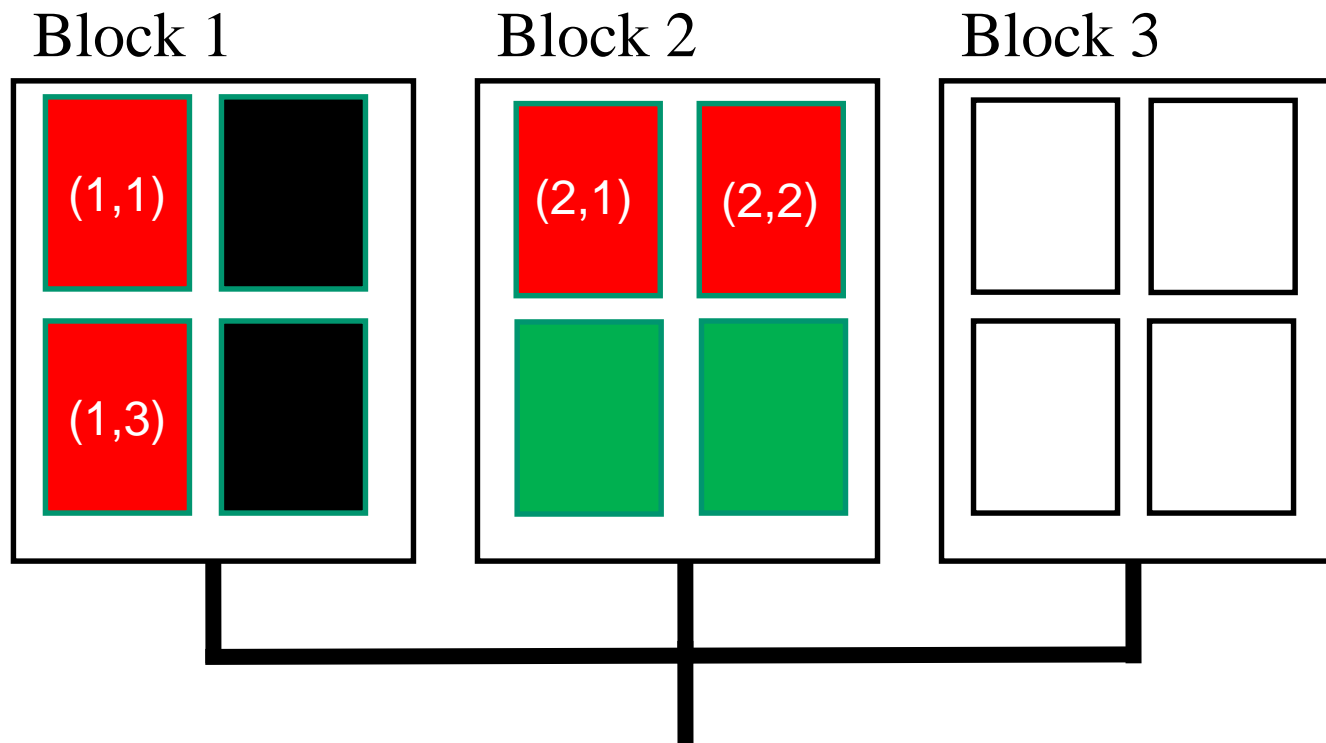


Base HDD image © Raimond Spekking / CC BY-SA 4.0 (via Wikimedia Commons)

# TRIM

Solid State Drives (SSD) use “pages” as the minimum storage unit. Pages are then combined to make “blocks”.

Any page (part of a file) is accessed by a memory address. The seek and transfer times are the same for any page so it doesn't matter if the pages of the file are contiguous or not. (Actually, non-contiguous is better since reads may be done through multiple channels.)



A simple addressing scheme:  
(Block number, page number)

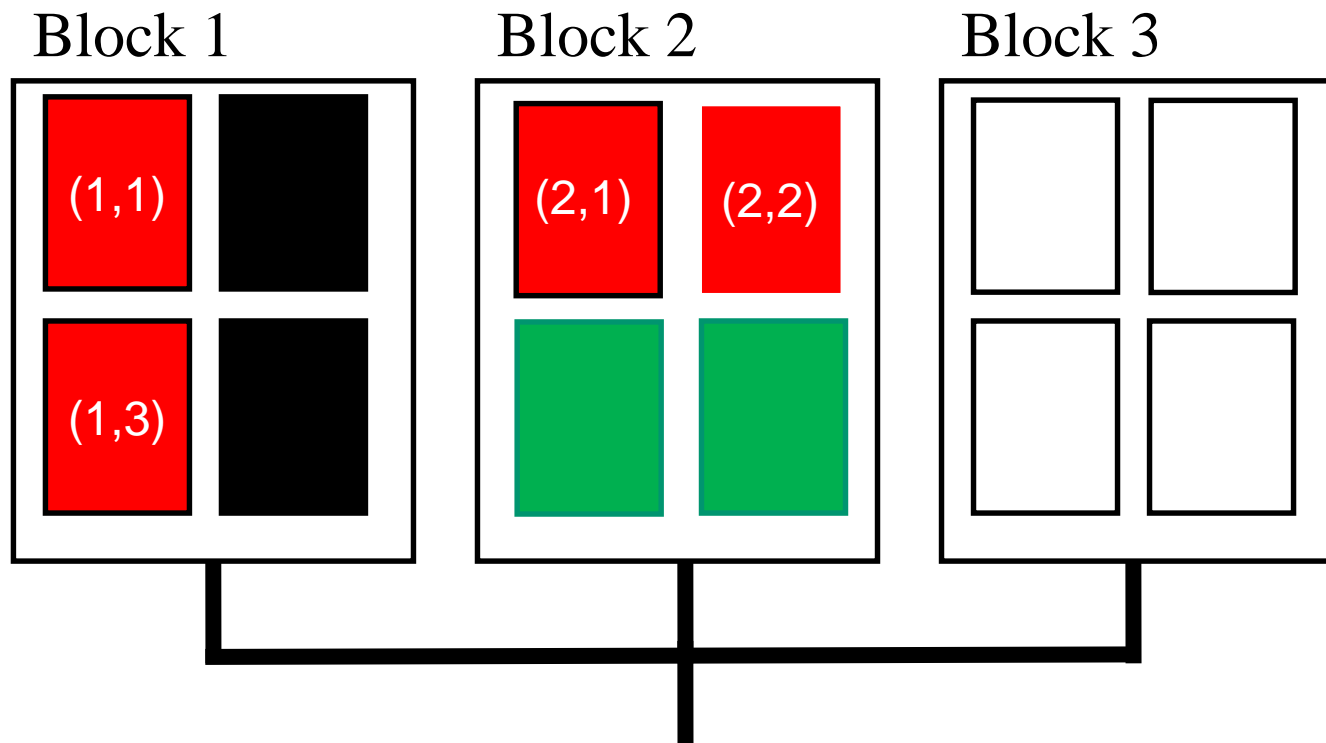
Data from anywhere can be read  
by simply pointing to the address

Data can be written to any empty page

Data in any page can be marked as deleted.

**BUT, to overwrite a deleted page requires the entire block to be erased.**

The data in the block has to be read into memory cache. The deleted pages are discarded. The pages in use are written to another block (wear levelling). The original block is erased completely.



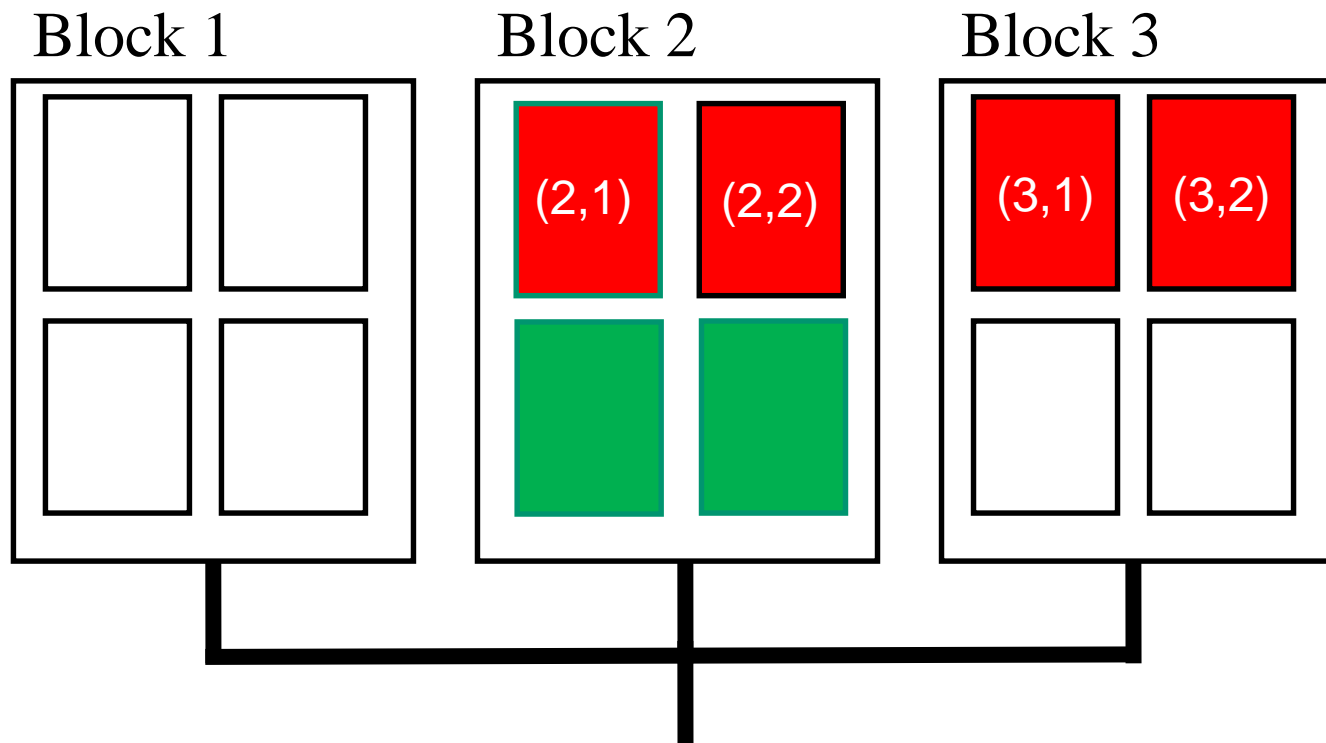
Delete the black file:

Cache the pages from Block 1

Discard the black pages

Write the red pages to Block 3

Erase Block 1



The SSD controller keeps track of the red file's pages, i.e. it knows that the file now starts at (3,1)

Block 1 is cleared for reuse

The read-discard-move-erase operation takes time and can cause a slow down if this is required before new data can be overwritten to a deleted page

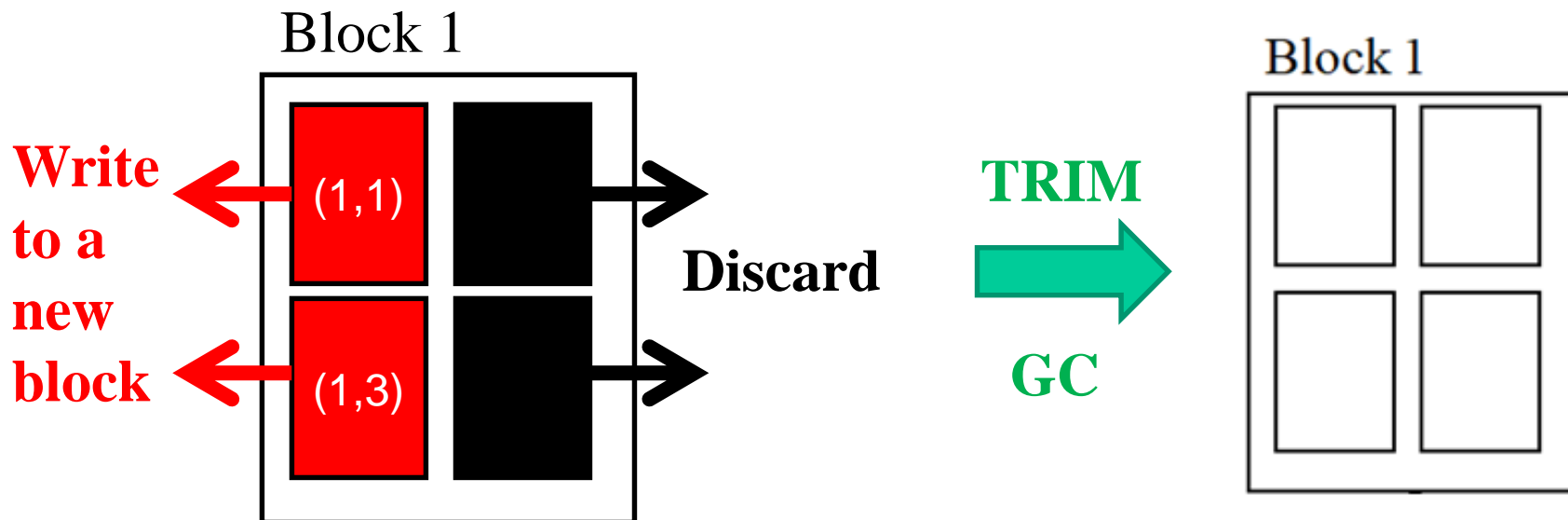
This is where TRIM comes in!

TRIM and a Garbage Collection (GC) process work with the SSD controller to make the page deletion process more efficient



TRIM marks pages as deleted, and tells the SSD controller that they are ready for GC.

When the system isn't busy, the garbage collection process moves the pages that are still in-use, discards the pages that are marked as deleted, and erases the original block.



Linux has some weird and wonderful commands that can check that this process is working:

Create a temporary file with random data

```
sudo dd if=/dev/urandom of=tempfile bs=1M count=3
```

Find the starting block of the temporary file

```
sudo hdparm -fibmap tempfile
```

View the contents of the temporary file

```
sudo hdparm -read-sector 99416992 /dev/sda
```

```
6d37 c796 99b2 8690 e877 950f 30e8 2309  
28b3 135c f802 319b 37a5 53c0 0991 eeb1  
23e1 3237 20c9 b237 efd4 cab7 6396 75cd
```

Delete the temporary file

**sudo rm tempfile**

Manually run the TRIM command

(and flush the disk buffers; nothing cached)

**sudo fstrim -v /**

**sync**

View the contents of the temporary file

**sudo hdparm --read-sector 99416992 /dev/sda**

```
0000 0000 0000 0000 0000 0000 0000 0000
0000 0000 0000 0000 0000 0000 0000 0000
0000 0000 0000 0000 0000 0000 0000 0000
```

For more information on SSD's, TRIM and GC:

[\*\*https://www.crucial.com/articles/about-ssd/what-is-trim\*\*](https://www.crucial.com/articles/about-ssd/what-is-trim)

[\*\*https://linuxhint.com/ssd\\_trim/\*\*](https://linuxhint.com/ssd_trim/)

[\*\*https://www.extremetech.com/extreme/210492-extremetech-explains-how-do-ssds-work\*\*](https://www.extremetech.com/extreme/210492-extremetech-explains-how-do-ssds-work)

[\*\*https://linuxnorth.wordpress.com/2014/03/18/trim-your-ssd-down-to-size/\*\*](https://linuxnorth.wordpress.com/2014/03/18/trim-your-ssd-down-to-size/)

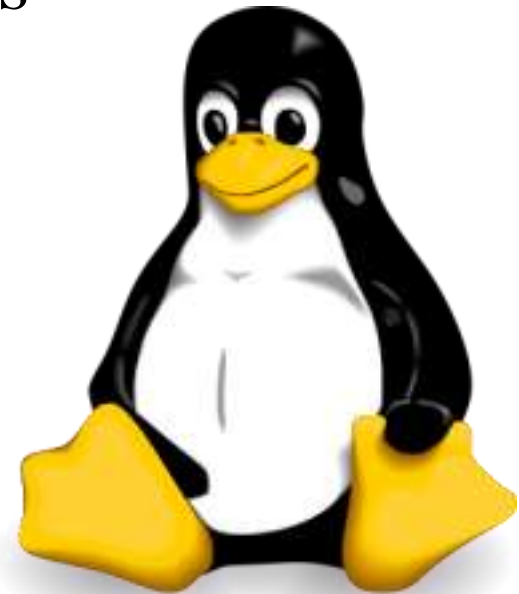
Share

# Disaster Recovery





Can anyone recommend an "All-in-One" (print/copy/scan) printer that is actually compatible with Ubuntu Linux (18.04)? I say "actually" because I have already returned two incompatible printers (Brother and HP) to stores, despite manufacturer claims that both models were good-to-go "right out of the box."





The Brother model not only required the separate download of printer drivers, a query to Brother resulted in a technician messaging me with complicated instructions for downloading and installing the printer drivers.

The instructions appeared to be "commands" and I had no idea how or where to implement them!

*“There was truth and there was untruth,  
and if you clung to the truth even against  
the whole world, you were not mad.”*

*George Orwell, 1984*

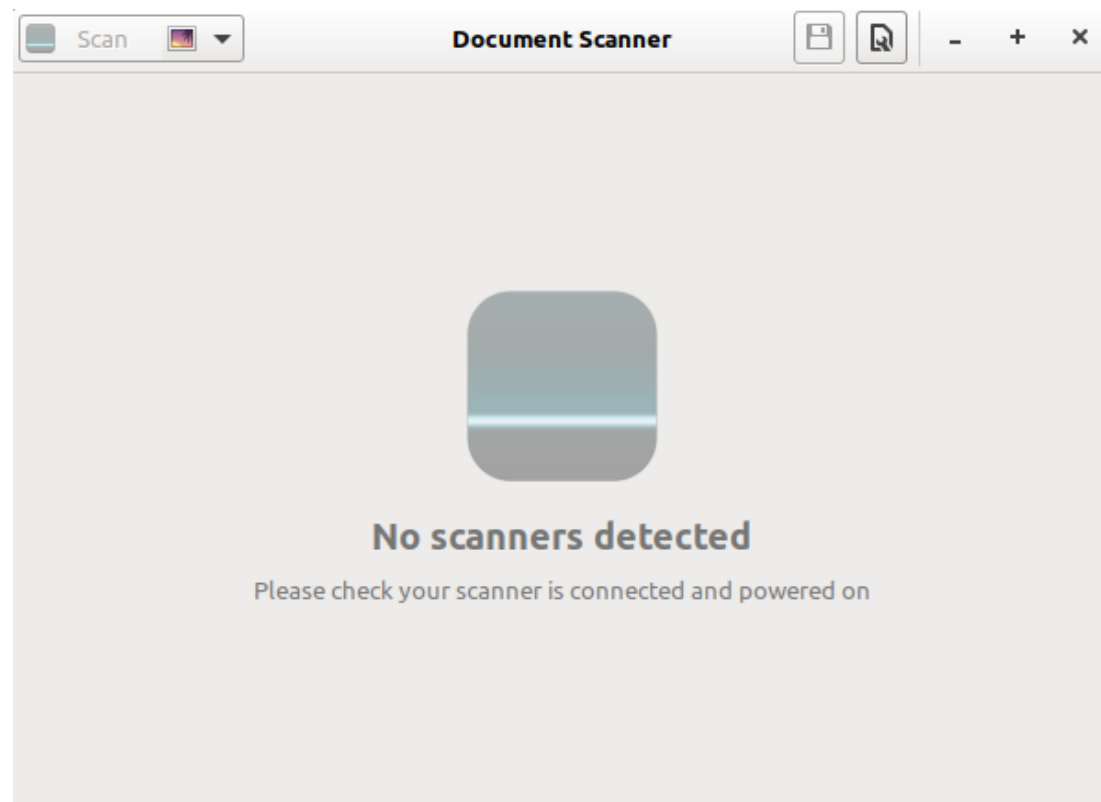
# A

Linux usually needs printer/scanner drivers to be downloaded and installed. Both Brother and Samsung (and probably several other manufacturers) offer Linux software for their devices.

Downloading is usually fairly straightforward. Installation normally requires a basic knowledge of Terminal commands. Getting the printer/scanner to actually work can be complicated!

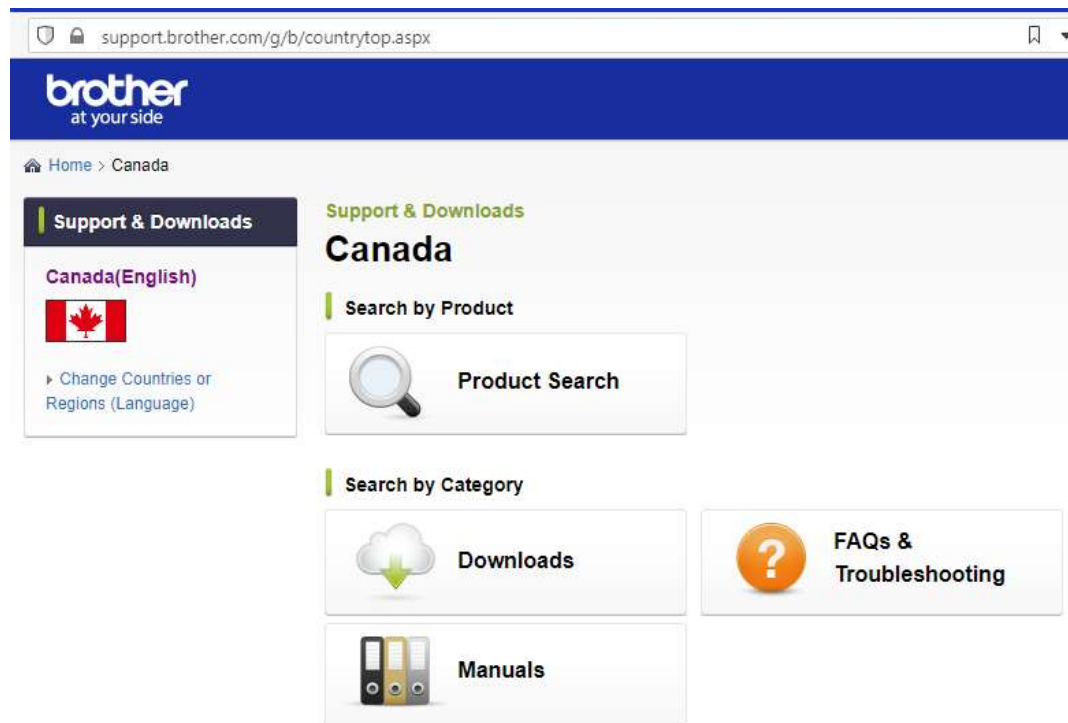
And, that's the good news!

I recently installed (fresh install) the latest release of Linux Mint (Version 20, Ulyana). While the printer function was working on my Brother DCP7020, the scanner was not.



# Solution?

Download and install the latest software from Brother's Support Centre.



# Welcome to the Brother Support Center

With all the changes due to the the COVID-19 pandemic we are seeing more E-mails and chats than usual. As a result you might notice a longer wait time for us to answer your chat. We have also been advised by our shipping partners that deliveries may be delayed. To learn more about how we are addressing the situation click here .

Get started by finding your product, and we'll show you support related to your product: downloads & drivers, manuals, FAQs, warranty information and more.

DCP7020

Select a Product Group

OR

Search

GO

BE AN INSIDER

Sign up to get 15% and get a chance to win \$250 in supplies value.



# Brother DCP-7020 Digital Copier/Printer

Model #: DCP7020

Discontinued

- Product Overview
- Specifications
- Supplies & Accessories
- Reviews
- Support & Downloads**
- Warranty



## Brother DCP-7020 Digital Copier/Printer

Model #: DCP7020

[Not Your Product ?](#)

### Downloads & Documents

#### Downloads & Drivers

Get Downloads & Drivers for this Product from the Brother Solutions Centre

[Find Downloads & Drivers](#)

[Download iPrint&Scan App](#)

### FAQ

- 1. Download software, drivers, or utilities**  
For a video walkthrough on downloading and installing for Windows click here 1. Click here...
- 2. Download the Full Driver and Software Package - Windows**  
If you prefer video instructions click here. 1. Open an Internet browser and browse to the...
- 3. Scan with Windows Fax and Scan - Windows 8, 8.1, or 10**  
Windows 8 - Scan with Windows Fax and Scan a. Move your mouse to the upper-right or lower-right...

**COVID-19 UPDATE**  
Delivery of your order might be delayed 3 - 5 days. Thanks for your patience!



Home > Canada > DCP-7020 > Downloads

Support & Downloads

DCP-7020



Not your product?

- Downloads
- FAQs & Troubleshooting
- Manuals
- Consumables & Accessories
- Supported OS
- Specification

Canada(English)



Change Countries or Regions (Language)

DCP-7020 Downloads

Select Your Operating System (OS)

STEP 1: Select OS Family

Windows  Mac  Linux

STEP 2: Select OS Version

Linux (rpm)  Linux (deb)

How to identify your Operating System (OS)

OK

- Information
- The Windows XP "Add Printer Wizard Driver" is compatible with Windows Server 2003.


- Contact Us
- Product Registration
- Visit www.brother.ca

- Highlights
- Windows 10 Support
- More Information
- Linux Information

Linux deb file for Ubuntu/Mint

**Support & Downloads**


**DCP-7020**



▶ Not your product?

- Downloads
- FAQs & Troubleshooting
- Manuals
- Consumables & Accessories
- Supported OS
- Specification

**Canada(English)**



▶ Change Countries or Regions (Language)

**Downloads**

OS: Linux (deb) Language: English

- Contact Us
- Product Registration
- Visit www.brother.ca

Combined printer/scanner driver package

**Utilities**

Title	Description	Release Date (Version)	Size
<a href="#">Driver Install Tool</a>	The tool will install LPR, CUPSwrapper driver and scanner driver (for scanner models).	06/04/2020 (2.2.2-1)	0.02 MB

**Printer Drivers**

Title	Description	Release Date (Version)	Size
<a href="#">LPR printer driver (deb package)</a>	This is LPR printer driver.	04/18/2007 (2.0.1-1)	0.03 MB
<a href="#">CUPSwrapper printer driver (deb package)</a>	This is CUPSwrapper printer driver.	07/18/2007 (2.0.1-2)	0.01 MB

**Scanner Drivers**

Title	Description	Release Date (Version)	Size
<a href="#">Scanner driver 32bit (deb package)</a>	This is Scanner driver.	12/16/2009 (0.2.5-1)	0.07 MB
<a href="#">Scanner driver 64bit (deb package)</a>	This is Scanner driver.	12/16/2009	0.08 MB



Home > Canada > DCP-7020 > Downloads

### Support & Downloads

DCP-7020



Not your product?

- Downloads
- FAQs & Troubleshooting
- Manuals
- Consumables & Accessories
- Supported OS
- Specification

Canada(English)



Change Countries or Regions (Language)

### Downloads

## Driver Install Tool

- Contact Us
- Product Registration
- Visit www.brother.ca

### Follow the Steps below to Download

1

#### Check detail information.

Title	Description	Language	Release Date (Version)	Size
Driver Install Tool	The tool will install LPR, CUPSwrapper driver and scanner driver (for scanner models).	English	06/04/2020 (2.2.2-1)	0.02 MB

- Update History
- Supported OS
- Compatible Model

2

#### Read before downloading.

- Notes before downloading

3

#### Read the End-User License Agreement (EULA).

##### License Agreement

This Agreement provides terms and conditions for license grant from Brother Industries, Ltd ("Brother"). Brother, who owns all copyrights to the software that is distributed with this Agreement ("Software") to recipients thereof ("User"), for use of the Software. User shall have the right to use the Software only in accordance with the terms and conditions of this Agreement. Any use by User of the Software shall be deemed as its agreement hereto.

**Note:** Please click on "I Accept" while holding down "Shift" or right click on "I Accept" and select "Save Target As,," from the menu.

Agree to the EULA and Download

brother at your side

Home > Canada > DCP-7020 > Downloads

Support & Downloads

DCP-7020



Not your product?

Downloads

FAQs & Troubleshooting

Manuals

Consumables & Accessor

Supported OS

Specification

Canada(English)



Change Countries or Regions (Language)

Download "linux-brprinter-installer-2.2.2-1.gz"?

File Name: linux-brprinter-installer-2.2.2-1.gz  
File Size: 23.87 KB  
Host: download.brother.com

Always Save Files to Default Download Location

Save Save As... Open Cancel

Driver package  
linux-brprinter-installer-2.2.2-1.gz  
(.gz = Gzip format)

Step4. Enter this command to extract the downloaded file:  
**Command: gunzip linux-brprinter-installer-\*.\*.\*.gz**  
e.g. gunzip linux-brprinter-installer-2.1.1-1.gz

Step5. Get superuser authorization with the "su" command or "sudo su" command.

Step6. Run the tool:  
**Command: bash linux-brprinter-installer-\*.\*.\*. Brother machine name**  
e.g. bash linux-brprinter-installer-2.1.1-1 MFC-J880DW

Step7. The driver installation will start. Follow the installation screen directions.

When you see the message "Will you specify the DeviceURI ?",  
For USB Users: Choose N(No)  
For Network Users: Choose Y(Yes) and DeviceURI number.  
The install process may take some time. Please wait until it is complete.

Content Feedback

To help us improve our support, please provide your feedback below.

Step 1: How does the software on this page help you?

**brother**  
at your side

Home > Canada > DCP-7020 > Downloads

**Support & Downloads**

**DCP-7020**



▶ Not your product?

**Downloads**

**FAQs & Troubleshooting**

**Manuals**

**Consumables & Accessories**

**Supported OS**

**Specification**

**Canada(English)**



▶ Change Countries or Regions (Language)

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Save Save As... Open Cancel

▶ Contact Us  
▶ Product Registration  
▶ Visit [www.brother.ca](http://www.brother.ca)

Print E-mail

? If your download does not start automatically, please click here.

**How to Install**

Step1. Download the tool.(linux-brprinter-installer-\*.\*.\*.gz)  
The tool will be downloaded into the default "Download" directory.  
(The directory location varies depending on your Linux distribution.)  
e.g. /home/(LoginName)/Download

Step2. Open a terminal window.

Step3. Go to the directory you downloaded the file to in the last step. By using the cd command.  
e.g. cd Downloads

Step4. Enter this command to extract the downloaded file:  
**Command: gunzip linux-brprinter-installer-\*.\*.\*.gz**  
e.g. gunzip linux-brprinter-installer-2.1.1-1.gz

Step5. Get superuser authorization with the "su" command or "sudo su" command.

Step6. Run the tool:  
**Command: bash linux-brprinter-installer-\*.\*.\*.gz Brother machine name**  
e.g. bash linux-brprinter-installer-2.1.1-1 MFC-J880DW

Step7. The driver installation will start. Follow the installation screen directions.

When you see the message "Will you specify the DeviceURI ?",  
For USB Users: Choose N(No)  
For Network Users: Choose Y(Yes) and DeviceURI number.  
The install process may take some time. Please wait until it is complete.

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## How to Install

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(The directory location varies depending on your Linux distribution.)  
e.g. /home/(LoginName)/Download

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e.g. cd Downloads

Step4. Enter this command to extract the downloaded file:

**Command: gunzip linux-brprinter-installer-\*.\*.\*.gz**  
e.g. gunzip linux-brprinter-installer-2.1.1-1.gz

Step5. Get superuser authorization with the "su" command or "sudo su" command.

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**Command: bash linux-brprinter-installer-\*.\*.\*. Brother machine name**  
e.g. bash linux-brprinter-installer-2.1.1-1 MFC-J880DW

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For USB Users: Choose N(No)

For Network Users: Choose Y(Yes) and DeviceURI number.

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## How to Install

Step1. Download the tool.(linux-brprinter-installer-\*.\*.\*.gz)

The tool will be downloaded into the default "Download" directory.  
(The directory location varies depending on your Linux distribution.)  
e.g. /home/(LoginName)/Download

Step2. Open a terminal window.

Step3. Go to the directory you downloaded the file to in the last step. By using the cd command.  
e.g. cd Downloads

Step4. Enter this command to extract the

**Command: gunzip linux-brprin**  
e.g. gunzip linux-brprinter-installer-2.1.1-1 MFC-J880DW.gz

Step5. Get superuser authorization with

Step6. Run the tool:

**Command: bash linux-brprinte**  
e.g. bash linux-brprinter-installer-2.1.1-1 MFC-J880DW

Step7. The driver installation will start. Follow the installation screen directions.

When you see the message "Will you specify the DeviceURI ?",

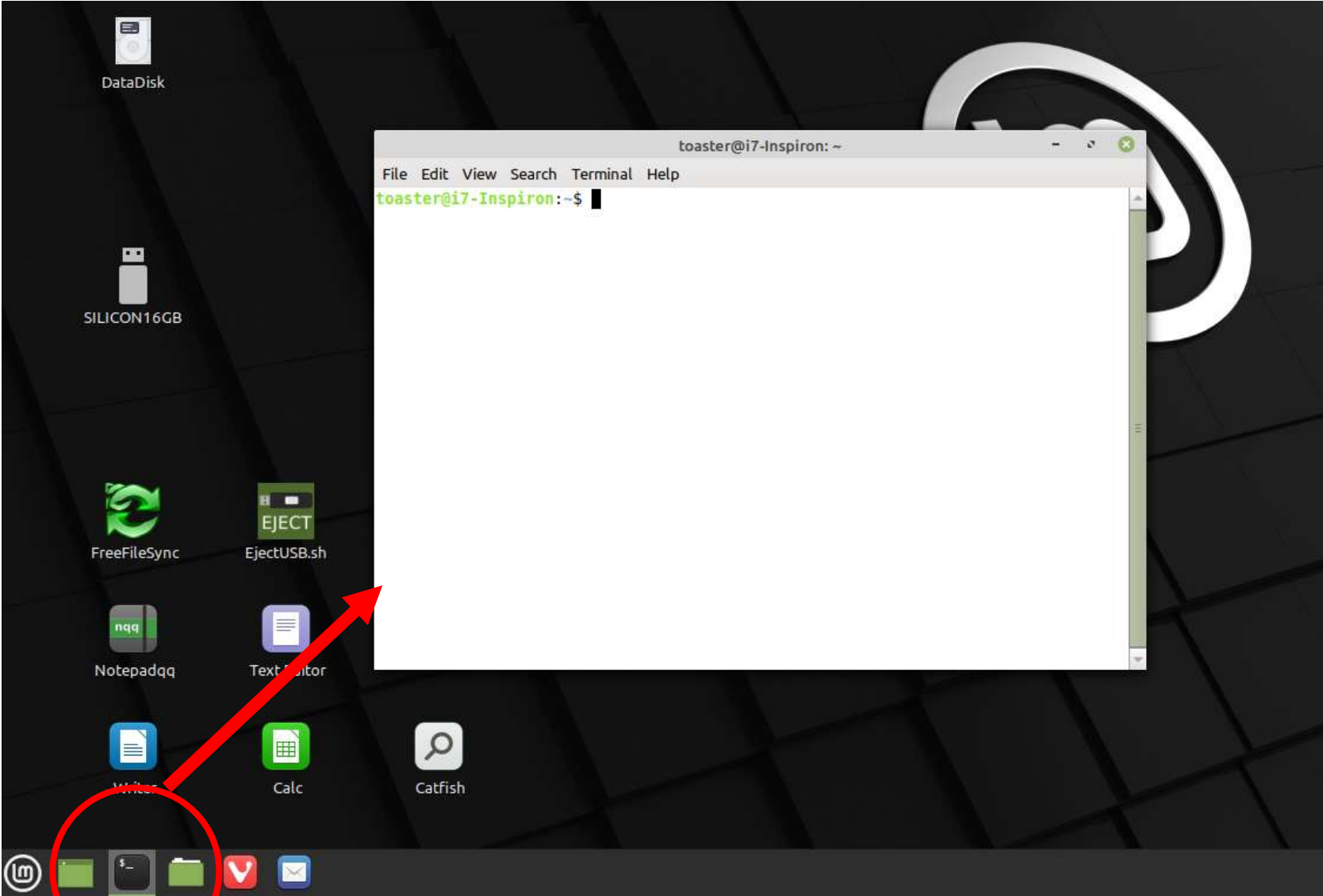
For USB Users: Choose N(No)

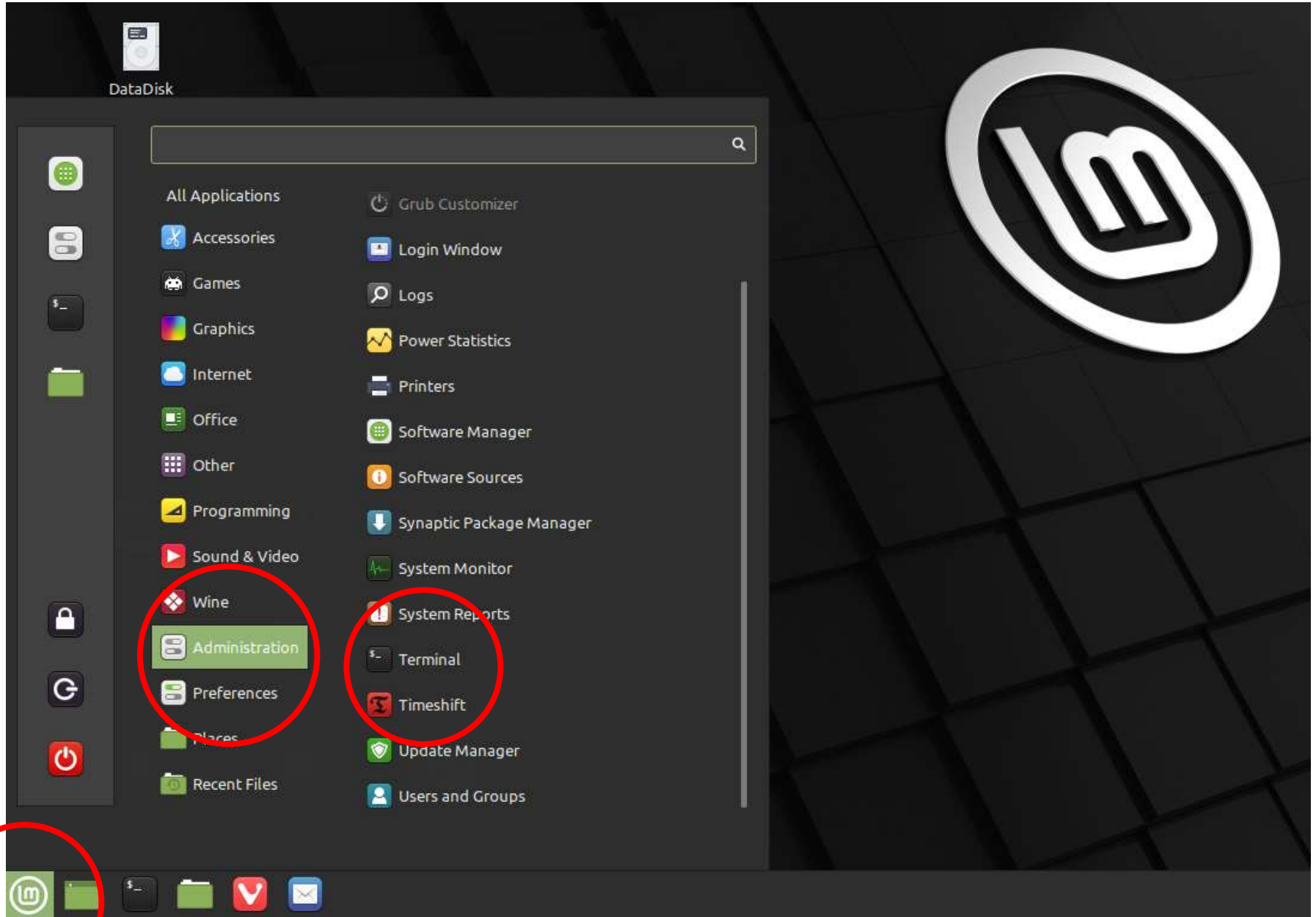
For Network Users: Choose Y(Yes) and DeviceURI number.

The install process may take some time. Please wait until it is complete.

Open a terminal window

# Finding “Terminal”





DataDisk

All Applications

Accessories

Games

Graphics

Internet

Office

Other

Programming

Sound & Video

Wine

Administration

Preferences

Places

Recent Files

Grub Customizer

Login Window

Logs

Power Statistics

Printers

Software Manager

Software Sources

Synaptic Package Manager

System Monitor

System Reports

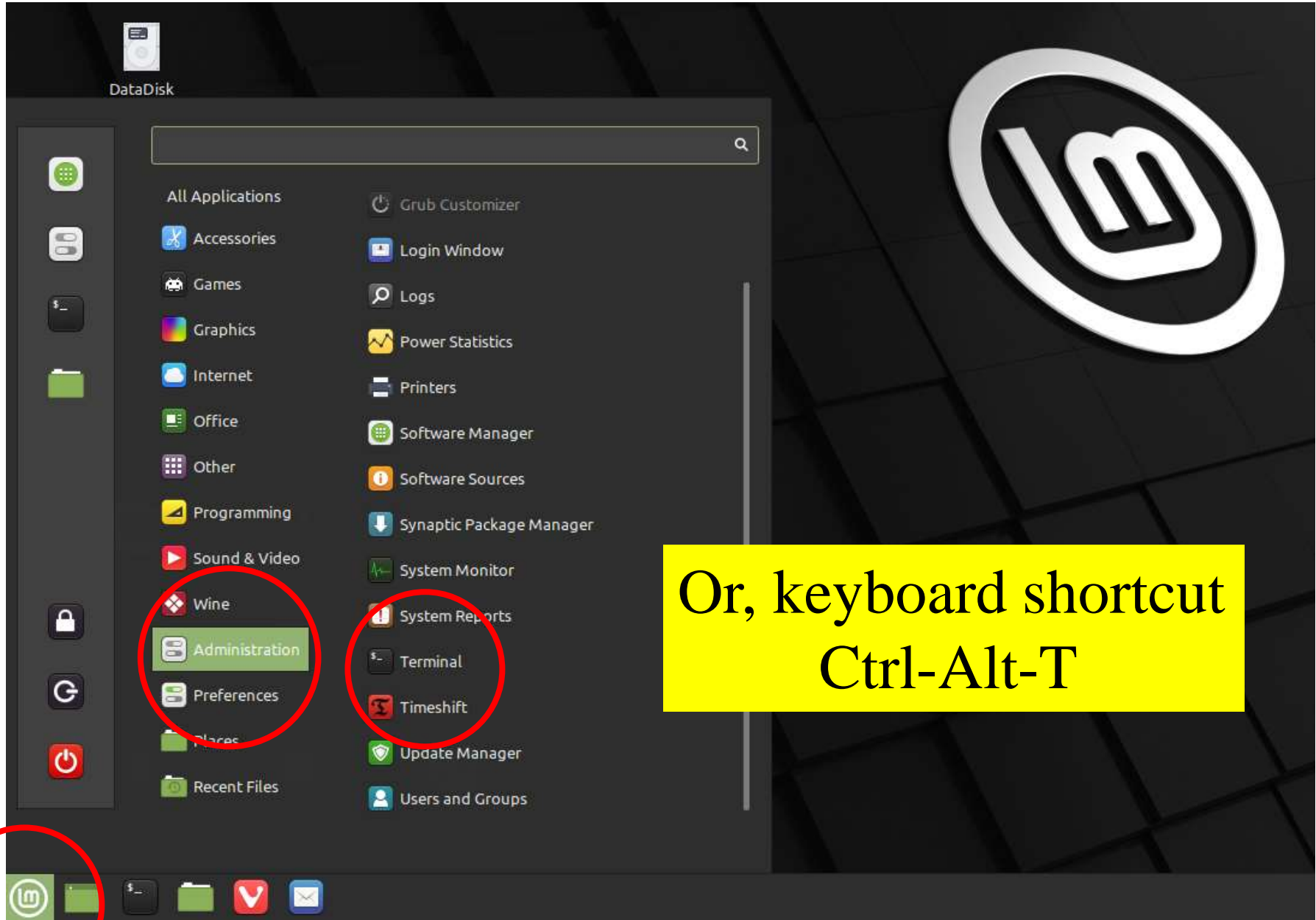
Terminal

Timeshift

Update Manager

Users and Groups





Or, keyboard shortcut  
Ctrl-Alt-T

## **Terminal Commands:**

**cd Downloads**

**gunzip linux-brprinter-installer-2.2.2-1.gz**

**sudo su**

**bash linux-brprinter-installer-2.2.2-1 DCP7020**

**Will you specify the Device URI ? = N (for USB)**

```
toaster@Dell-XPS8300: ~/Downloads
File Edit View Search Terminal Help
toaster@Dell-XPS8300:~$ cd Downloads
toaster@Dell-XPS8300:~/Downloads$ ls
FreeFileSync_11.0_Linux.tar.gz
linux-brprinter-installer-2.2.2-1.gz
veracrypt-1.24-Update4-Ubuntu-20.04-amd64.deb
vivaldi-stable_3.1.1929.45-1_amd64.deb
toaster@Dell-XPS8300:~/Downloads$ gunzip linux-brprinter-installer-2.2.2-1.gz
toaster@Dell-XPS8300:~/Downloads$
```

## Shortcuts:

ls to list files in folder

Select filename for .gz file

Ctrl-Shift-C to copy text

Type gunzip then Ctrl-Shift-V  
to paste the filename

```
toaster@Dell-XPS8300: ~/Downloads
File Edit View Search Terminal Help
toaster@Dell-XPS8300:~$ cd Downloads
toaster@Dell-XPS8300:~/Downloads$ ls
FreeFileSync_11.0_Linux.tar.gz
linux-brprinter-installer-2.2.2-1.gz
veracrypt-1.24-Update4-Ubuntu-20.04-amd64.deb
vivaldi-stable_3.1.1929.45-1_amd64.deb
toaster@Dell-XPS8300:~/Downloads$ gunzip linux-brprinter-installer-2.2.2-1.gz
toaster@Dell-XPS8300:~/Downloads$ ls
FreeFileSync_11.0_Linux.tar.gz
linux-brprinter-installer-2.2.2-1
veracrypt-1.24-Update4-Ubuntu-20.04-amd64.deb
vivaldi-stable_3.1.1929.45-1_amd64.deb
toaster@Dell-XPS8300:~/Downloads$ sudo bash linux-brprinter-installer-2.2.2-1
[sudo] password for toaster: *****
```

**Shortcut:**  
Simply preface the bash command with sudo  
“Longcut”:  
I forgot to add the model name (DCP7020)!

toaster@Dell-XPS8300: ~/Downloads

File Edit View Search Terminal Help

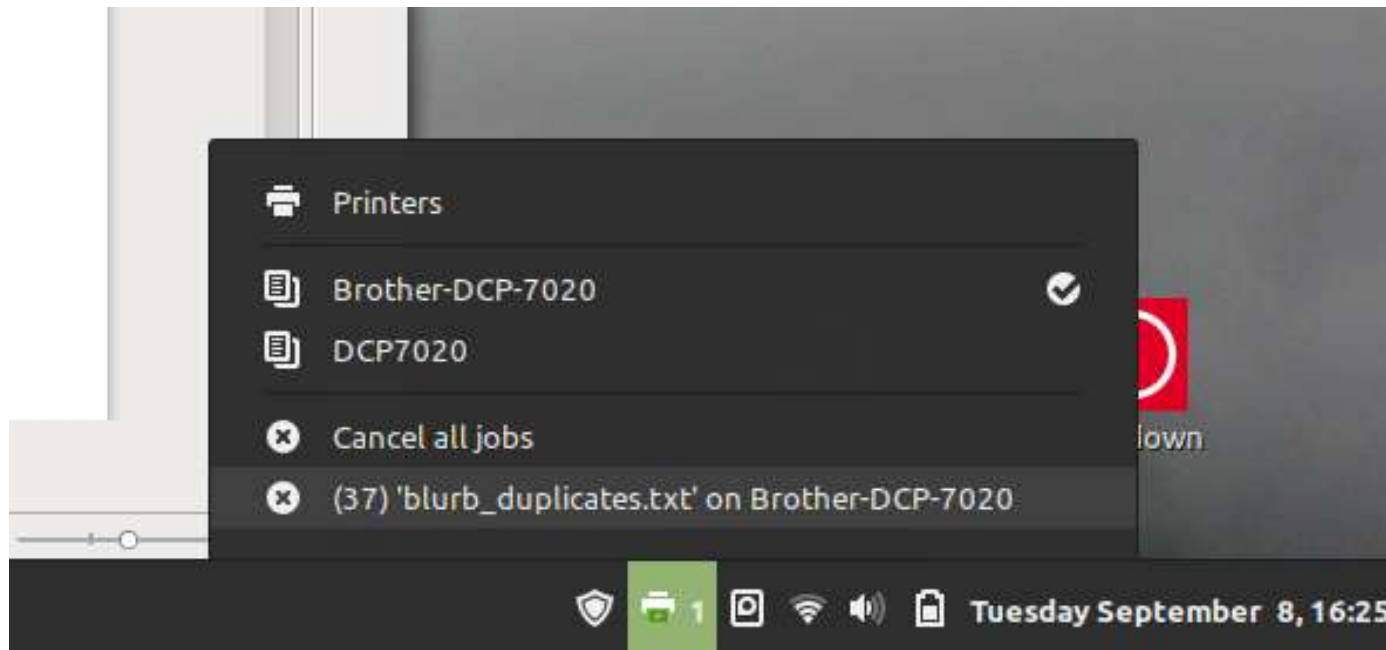
```
dpkg -x cupswrapperDCP7020-2.0.1-2.i386.deb /
dpkg-deb: building package 'brdcp7020lpr' in 'brdcp7020lpr-2.0.1-1a.i386.deb'.
dpkg -b ./brother_driver_packdir brdcp7020lpr-2.0.1-1a.i386.deb
dpkg-deb: building package 'cupswrapperdcp7020' in 'cupswrapperDCP7020-2.0.1-2a.i386.deb'.
dpkg -b ./brother_driver_packdir cupswrapperDCP7020-2.0.1-2a.i386.deb
dpkg -i --force-all brdcp7020lpr-2.0.1-1a.i386.deb
Selecting previously unselected package brdcp7020lpr:i386.
(Reading database ... 429775 files and directories currently installed.)
Preparing to unpack brdcp7020lpr-2.0.1-1a.i386.deb ...
Unpacking brdcp7020lpr:i386 (2.0.1-1) ...
Setting up brdcp7020lpr:i386 (2.0.1-1) ...
dpkg -i --force-all cupswrapperDCP7020-2.0.1-2a.i386.deb
Selecting previously unselected package cupswrapperdcp7020:i386.
(Reading database ... 429791 files and directories currently installed.)
Preparing to unpack cupswrapperDCP7020-2.0.1-2a.i386.deb ...
Unpacking cupswrapperdcp7020:i386 (2.0.1-2) ...
Setting up cupswrapperdcp7020:i386 (2.0.1-2) ...
Restarting cups (via systemctl): cups.service.
lpadmin: Printer drivers are deprecated and will stop working in a future version of CUPS.
#
ln -s /usr/lib/libbrcomplpr2.so /usr/lib32/libbrcomplpr2.so
Will you specify the Device URI? [Y/n] ->n
```

```
toaster@Dell-XPS8300: ~/Downloads
File Edit View Search Terminal Help
linux-headers-5.4.0-42 linux-headers-5.4.0-42-generic
linux-image-5.4.0-42-generic linux-modules-5.4.0-42-generic
linux-modules-extra-5.4.0-42-generic
Use 'sudo apt autoremove' to remove them.
The following NEW packages will be installed:
  libusb-0.1-4
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 17.4 kB of archives.
After this operation, 58.4 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu focal/main amd64 libusb-0.1-4 amd64 2:0.1.12-32 [17.4 kB]
Fetched 17.4 kB in 0s (77.1 kB/s)
Selecting previously unselected package libusb-0.1-4:amd64.
(Reading database ... 429841 files and directories currently installed.)
Preparing to unpack .../libusb-0.1-4_2%3a0.1.12-32_amd64.deb ...
Unpacking libusb-0.1-4:amd64 (2:0.1.12-32) ...
Setting up libusb-0.1-4:amd64 (2:0.1.12-32) ...
Processing triggers for libc-bin (2.31-0ubuntu9) ...
/sbin/ldconfig.real: /usr/lib/libbrcolm2.so.1 is not a symbolic link

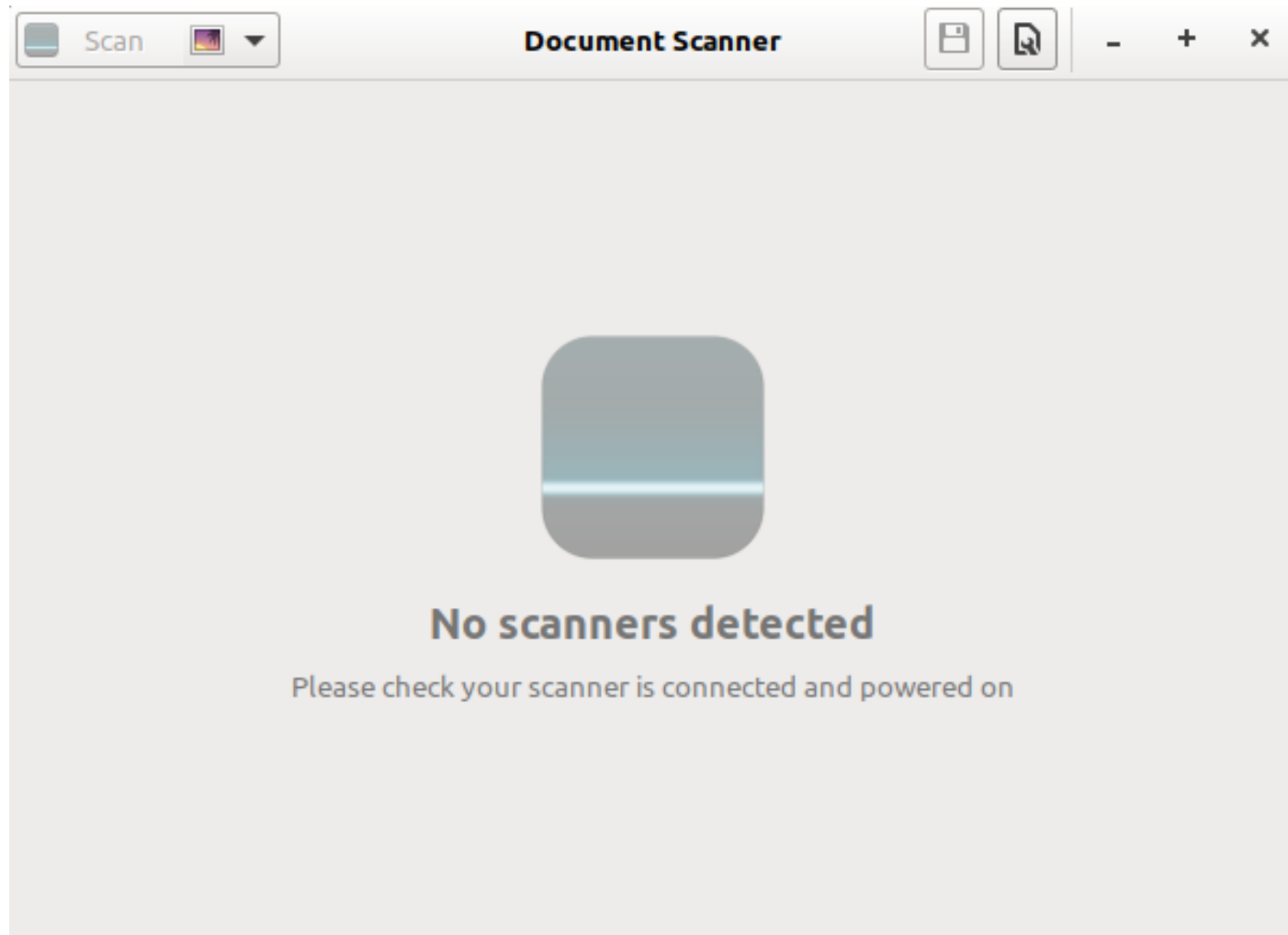
/sbin/ldconfig.real: /usr/lib/libbrscandec2.so.1 is not a symbolic link

Hit Enter/Return key.
toaster@Dell-XPS8300:~/Downloads$
```

# Print job:




# Scanning:



---

# Linux North



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[← Sort folders before files in LibreOffice](#)

[Manually Updating LineageOS on a Moto G3 Smartphone](#)

[→](#)

## Activating the scanner on a Brother DCP7020 multi-function laser printer

Posted on [July 10, 2018](#)

I recently did a clean install of Linux Mint onto my computer and installed the drivers for my Brother DCP7020 multi-function laser printer. The printer worked fine but attempting to run the scanner with Simple Scan produced the error “Failed to Scan – No scanners available”.

### Recent Posts

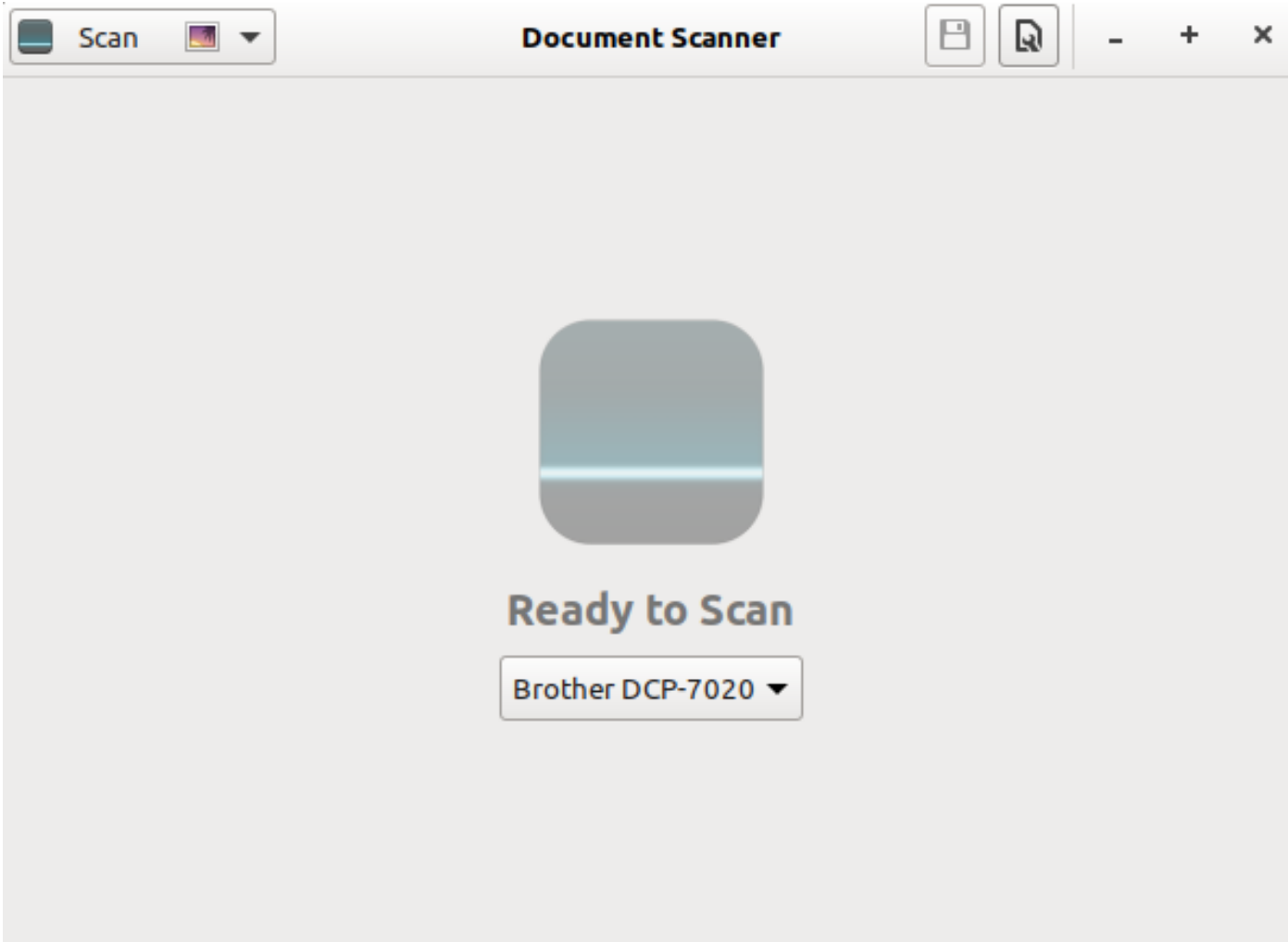
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- [Waking up the Moto G3 under](#)

Then, when everything was looking extremely bleak, I came across the posting “Brother MFC-L2700DW printer can print, can’t scan” by oscar1919 on Ask Ubuntu.

Oscar indicated that some of the installation files may be copied into the wrong folder. For 64-bit Linux, the instructions were to check that the folder `/usr/lib/x86_64-linux-gnu/sane` exists. In my case, this folder was indeed present, but it was empty. The subsequent instructions were, essentially to copy the files `libsane-brother*` from the `/usr/lib64/sane/` folder to `/usr/lib/x86_64-linux-gnu/sane`. On my system, the three files to be copied were: `libsane-brother2.so`, `libsane-brother2.so.1` and `libsane-brother2.so.1.0.7`.

Once these files were located in the `/usr/lib/x86_64-linux-gnu/sane` folder, Simple Scan sprung to life and scanned a test document.

`/usr/lib64/sane ==> /usr/lib/x86_64-linux-gnu/sane`





Can anyone recommend at least one Ottawa computer technician who has ample experience working with the Ubuntu OS?



# A

(1) Dr. Google

<https://www.google.com>

(2) Ask Ubuntu

<https://askubuntu.com>

(3) Linux North

<https://linuxnorth.wordpress.com>

The Google logo, consisting of the word "Google" in its characteristic multi-colored font (blue, red, yellow, green, blue, red).The Linux North logo, featuring the text "Linux North" in a serif font, with a vertical line and a circle around the word "North", resembling a compass rose.



Can a personal webspace be set up in Google Drive? If so, can you tell us how to do this?

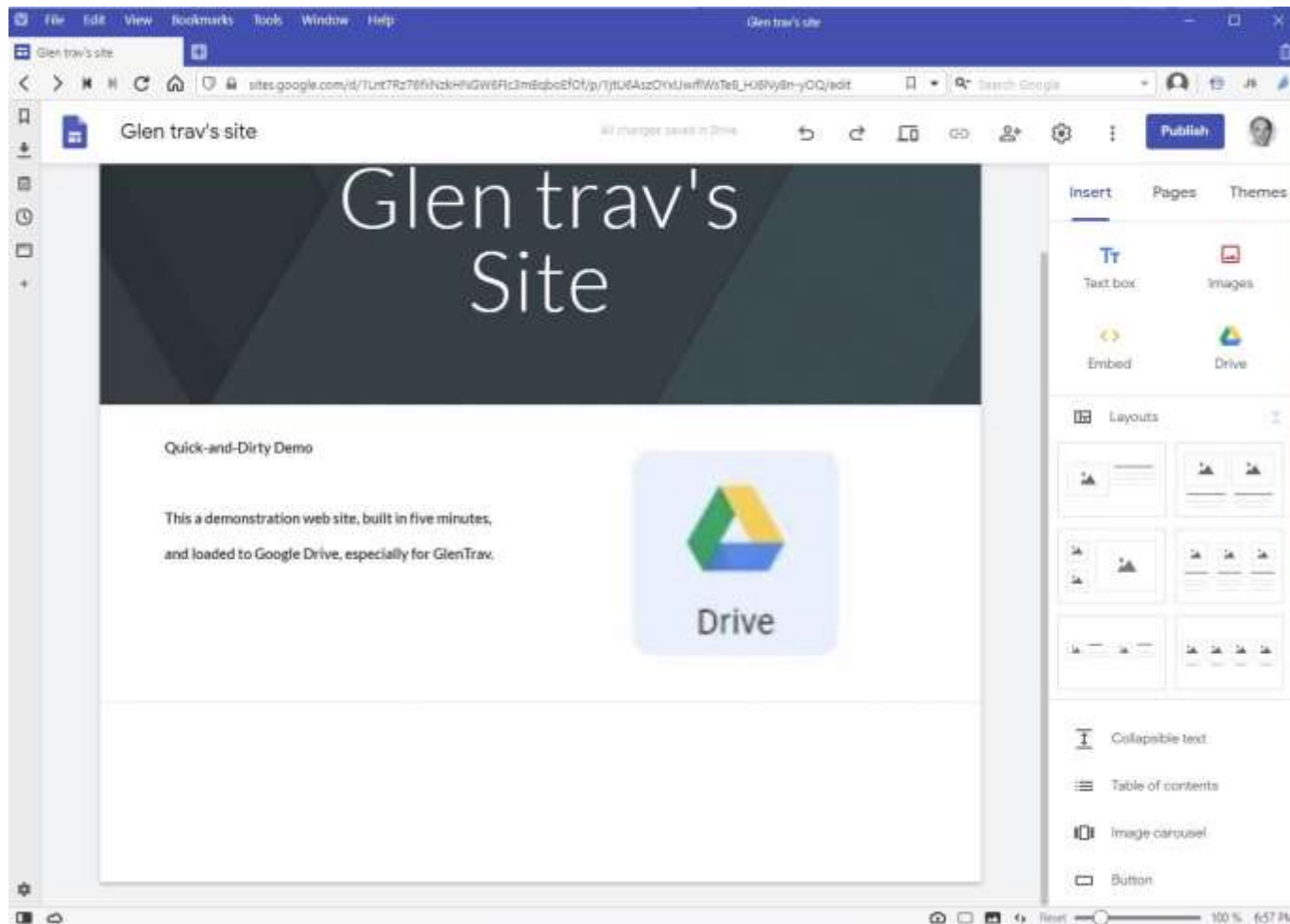
Google Drive





An alternative is to use Google Sites:

<https://sites.google.com/new>



## Publish to the web

Web address

glentravssite

<https://sites.google.com/view/glentravssite>

### Custom URL

Make it easier for people to visit your site with custom URLs such as [www.yourdomain.co.uk](#) [MANAGE](#)

### Who can view my site

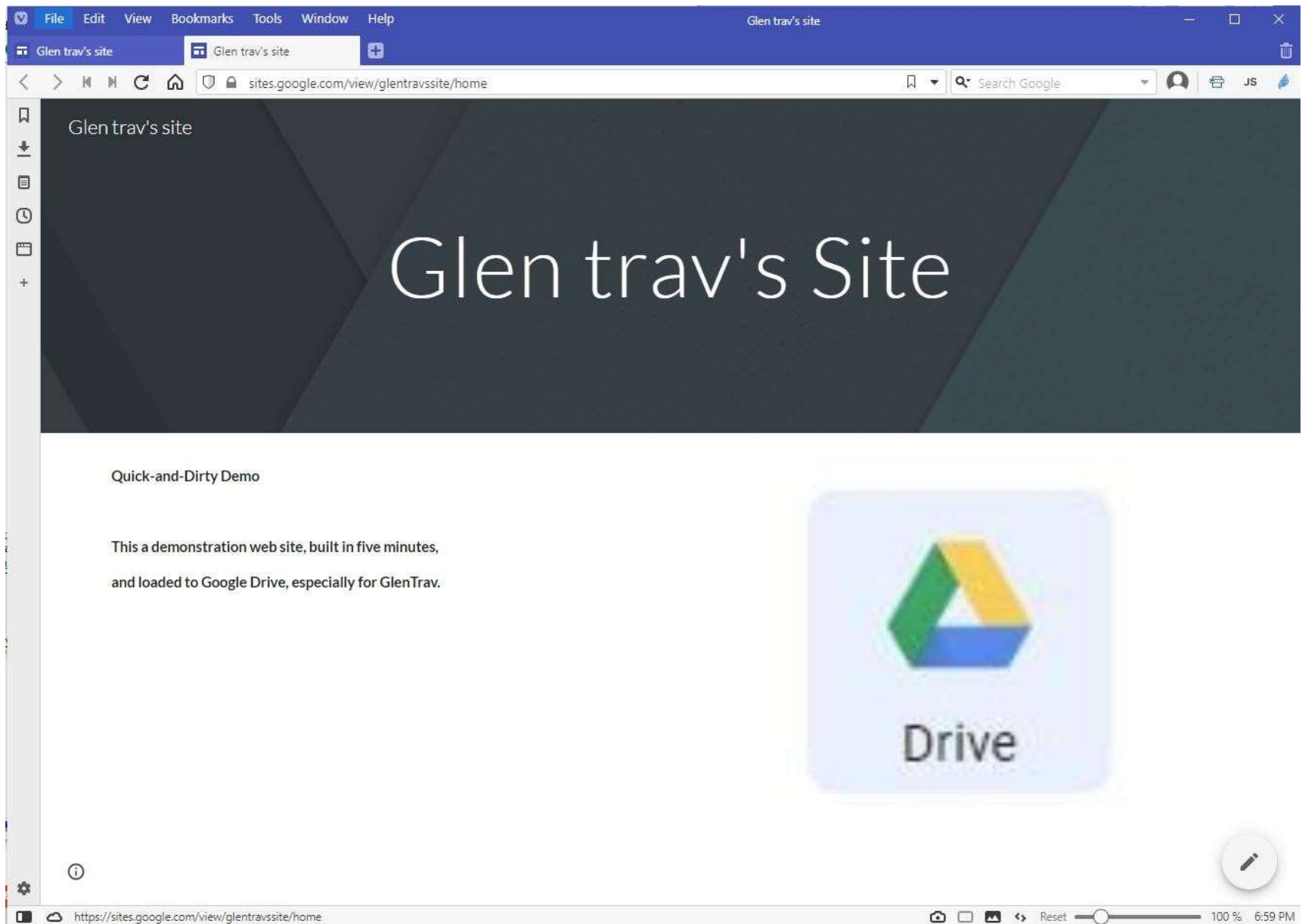
Anyone [MANAGE](#)

### Search settings

Request public search engines not to display my site [Learn more](#)

Cancel

**Publish**



<https://sites.google.com/view/glenravssite/home>



**Any Other:  
Questions?  
Comments?  
Shares?**



**If we have time...**

## Awesome Icons

*Customize the icons on your Android smartphone*



*Alan German*



**Tech Café, OPL**  
**September 14, 10:00 am**

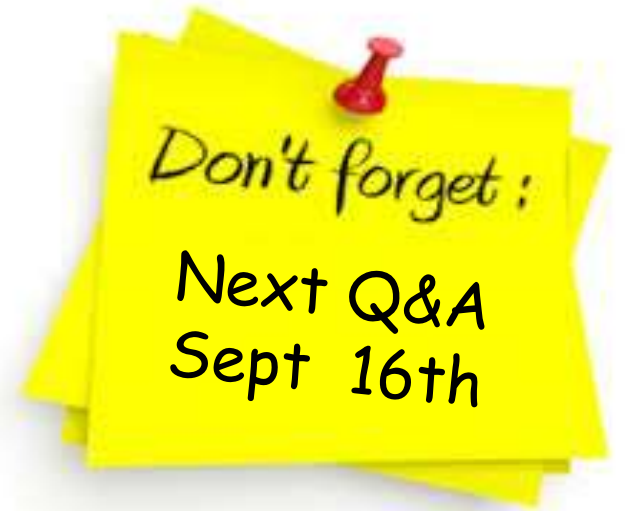


**Windows Performance**  
**Tune-up**

*Register at: [opcug.ca/opl-presentations/](http://opcug.ca/opl-presentations/)*



# Questions



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

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

