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Ottawa PC Users' Group

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Future Topics



1. Artificial Intelligence
2. Notifications Google Pixel/Bluetooth
3. Handling digital photos
4. Default settings for smartphone camera
- ~~5. Total Commander~~
6. Synchronize browser bookmarks
7. Smartphone apps that are useful
8. Real-time translation app
9. Identify on-line threats to children
- ~~10. Resizing photos on smartphone~~

Future Topics



11. In Windows 11, where do I find programs such as Windows Accessories?
12. Disk Cleanup, safe to delete everything?
- ~~13. Multiple firewall interactions~~
- ~~14. Is cloud storage safe?~~
15. Do I need a VPN?
16. Google Groups/Google Drive management
- ~~17. Sharing video files~~
18. Saving passwords/auto-fill in browsers
19. Are apps and programs different?
- 20.



Suggestions wanted!

Some previous presentations:

- K-9 Mail (*Smartphone Basics*)
- Maps.ME (*tOM on Android*)
- GasBuddy (*Stewart on Android*)

- Useful apps for Android smartphones and tablets
- What are your favourites?





Multiple firewalls

Do firewalls interact and disrupt one another?





Multiple firewalls different devices

- Firewalls on separate physical devices
 - e.g. firewall in your router & firewall on your computer
- No conflict
- How firewalls act at the basic level
(e.g. inbound traffic with a router & computer)
 - router firewall goes through its rules, e.g.
 - if it sees something matching a rule such as
 - *block all traffic from IP address 123.234.123.234*, or
 - it sees traffic that matches a *stateful inspection* rule such as
 - *ping of death* (maliciously configured ping packet)
 - traffic will be blocked
 - otherwise the traffic is allowed and passed on to the computer
 - computer firewall goes through its rules
 - if any blocking rule matches, traffic is blocked
 - otherwise traffic is allowed



Multiple firewalls, same device

- Conceptually, they should be able to coexist
 - firewall one applies its rules
 - blocks some traffic, allows other traffic
 - firewall two applies its rules
 - blocks some traffic, allows other traffic
- Most recommend single firewall on any one device
 - *Running two firewalls is not recommended by most security experts due to severe crashes and internal system collisions.*
 - I assume it comes down to which firewall gets to see the traffic first
 - similar to not running two *on-access* anti-virus programs



Recommendation

- **Run a single firewall on every device**
 - **router firewall** provides (mostly) inbound protection for every device on your network
 - **firewall on devices on network** (computers, phones, TVs, refrigerators,...) provide protection for that specific device
 - because they are installed on the device itself, can
 - provide protections from other devices on internal network
 - protection impossible on router firewall, e.g.
 - block all traffic from winword.exe*
 - block all traffic when no user is logged in*
 - block traffic to Pornhub.com if logged in user is Johnny*
- No reason **not** to run a firewall on all devices



Sharing video files

- How can I share video files, i.e. recorded Zoom presentations?
- I have found that the files are too large to send by E-mail
- Can I use Dropbox?





Transfer through the cloud



File transfer using Dropbox

by Alan German

Transferring a big file such as a video, or several large files such as a backup, is problematic as many mail servers won't allow large attachments. Cloud storage services temporarily store your files and allow others to access them.

One such system is Dropbox (<https://www.dropbox.com/>). A free account is normally quite sufficient for most home users (remember we mentioned that). However, as space, a number of plans are available, with monthly billing, to purchase more space.



- Share a link to a file
- Share a folder

<https://opcug.ca/Reviews/Dropbox.html>

Share

Disappointing News



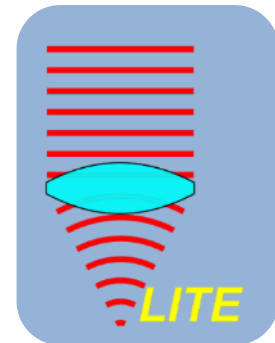
Macrium Reflect
Free Edition
is being retired

Patches to Jan 1st, 2024

No further updates
as of Nov 26th, 2022

Share

Send Reduced Lite



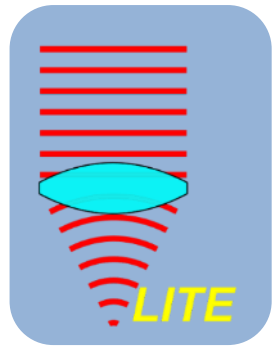
- Problem: sending photos from your phone or tablet
- Files can be very large
 - Google Pixel 6: 12 megapixel (4080x3072)
 - average jpeg file size 3.6 MB
 - range 1.5 MB – 7 MB
- Recipients might not appreciate mailbox flooded with big files
- Solution: reduce size of photos before they are mailed

Note: most phones listing high resolution sensors use *pixel binning*

- combine data from 4 (or 9) adjacent photo sites into one
- typically output 12 megapixel (mp) photos
 - Google Pixel 6 Pro: **48 mp sensor**. Pixel binning 4:1 = **12 mp photo**
 - Samsung S22: **108 mp sensor**. Pixel binning 9:1 = **12 mp photo**
 - Apple iPhone 14 Pro Max: **48 mp sensor**. Pixel binning 4:1 = **12 mp photo**

Share

Send Reduced Lite at Google Play Store



Google Play Games Apps Movies & TV Books Kids

Send Reduced Lite

Omega Centauri Software

4.3★ 576 reviews 50K+ Downloads

Everyone

Install on more devices

This app is available for all of your devices

What's new

- 0.28: rename to fit Google requirements
- 0.27: drop support for some old Android devices and improve support for others
- 0.24: fix crash when selecting License
- 0.22: option to include/exclude direct shares
- 0.21: bug fixes
- 0.20: support Android 10+

Data safety →

Safety starts with understanding how developers collect and share your data. Data privacy policy

No data shared with third parties. Learn more about how developers declare sharing

Updated on Jul 19, 2022

Developer contact

More apps to try →

- Canva: Design, Photo & Video
- Hevy - Gym Log Workout Tracker
- Yuka - Food & cosmetics scan
- Flashcards World
- LinkedIn: Jobs & Business News

Good star rating
Many downloads

Active development

Check written reviews

Ratings and reviews →

4.3★ 576 reviews

Tina Galt
★★★★★ May 30, 2020
I loved using this app and did frequently. Without a new update on my phone as a mess. It will be updated any time soon. Please, do not stop this review before.

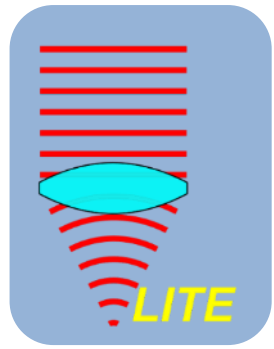
Did you find this helpful? Yes No

wendy hunt
★★★★★ July 14, 2021
I wonder could I be refunded the 99p purchase. That's nothing if the app works. But it does not work for me. Maybe I'm expecting too much. I just had some trouble and some other elements. But with a simple app for some reason. Please, do not stop this review before.

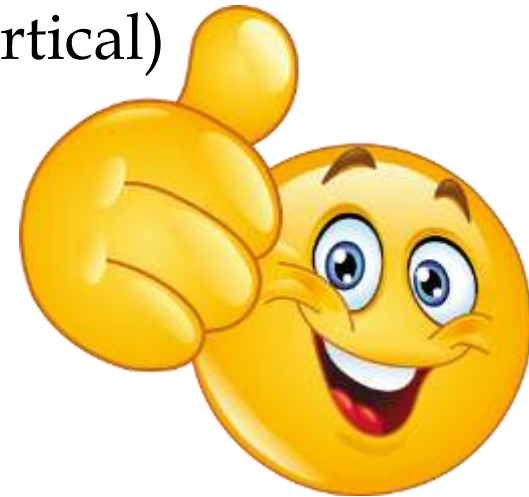
<https://play.google.com/store/apps/details?id=mobi.omegacentauri.SendReduced>

Share

Default Settings

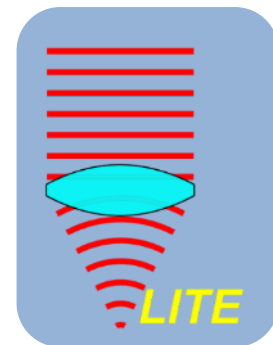


- Two settings
 - **Maximum resolution:** 1024 (horizontal or vertical)
 - **JPEG quality:** 85
- Reasonable settings for most people
- Later I will explain why you *might* want to change these defaults



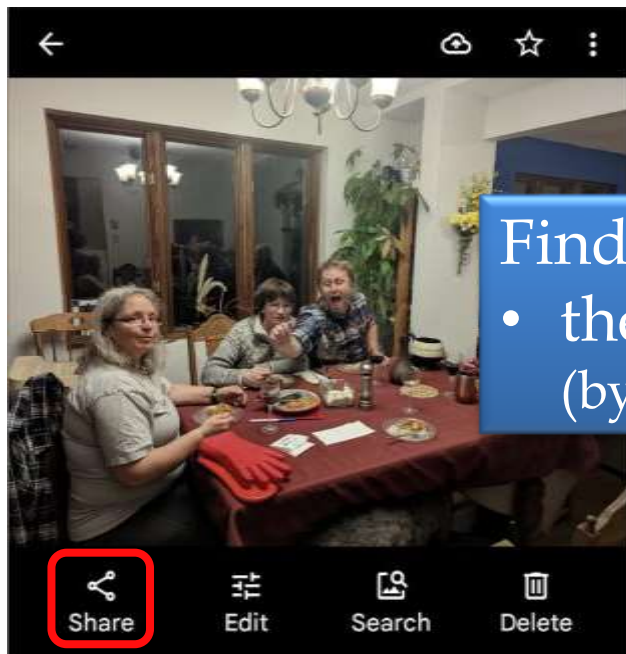
Share

Two ways to use app



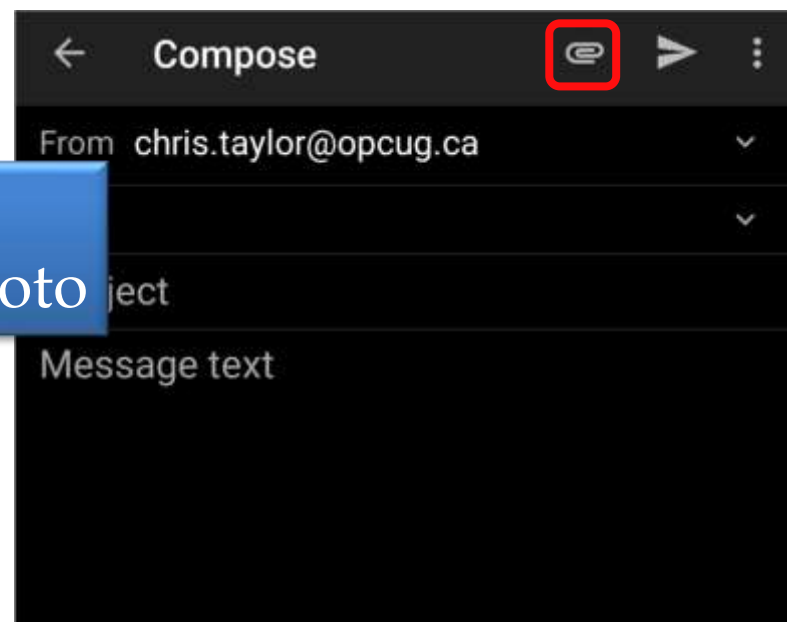
Find your photo first (*Photos, Gallery, or...*)

- then *Share* it
(by email or text message)



Start your email first

- then *Attach* the photo

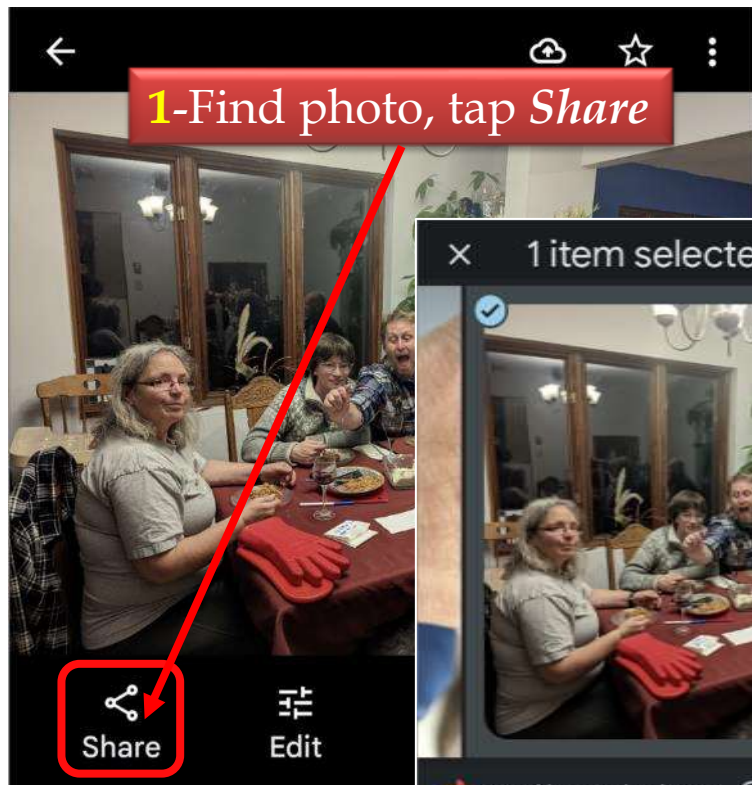


Note: you can't *start* with a Text message
and then use Send Reduced to *attach* a photo

Share

Send Reduced from *Photos* app

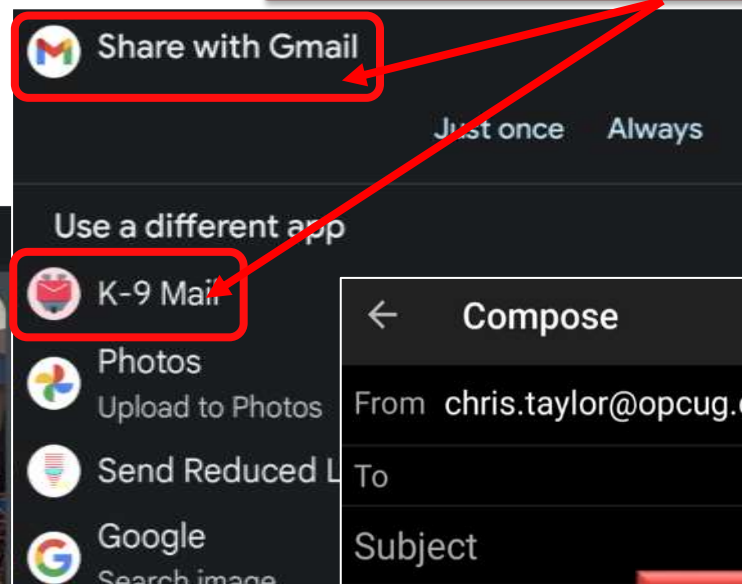
1-Find photo, tap *Share*



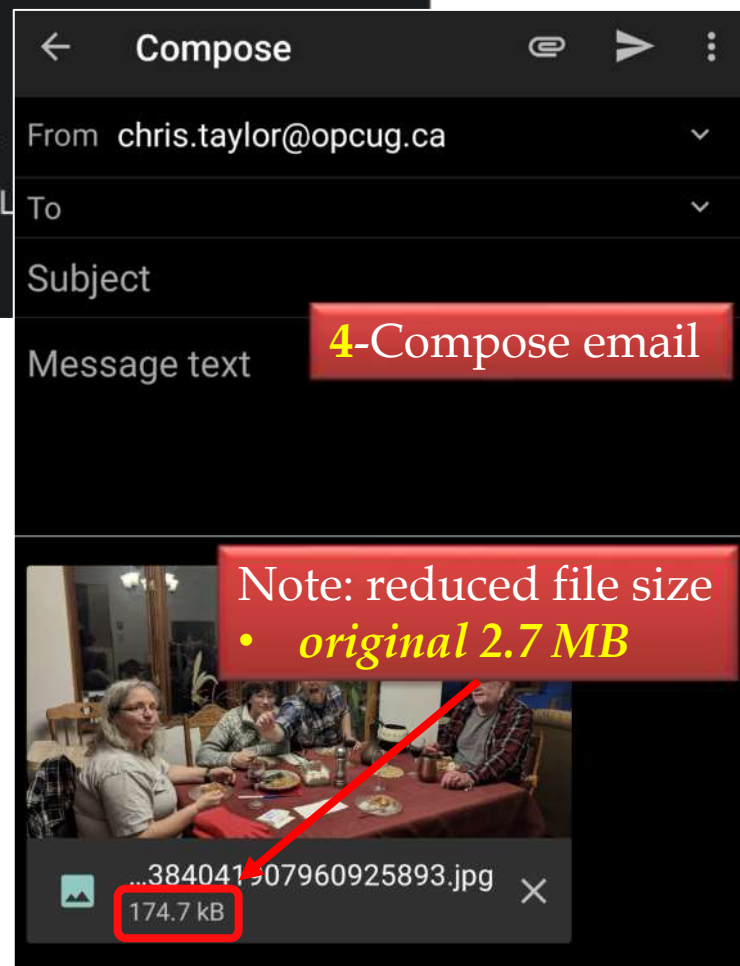
2-Tap *Send Reduced*



3-Tap how you want to send photo



4-Compose email



Note: reduced file size

• **original 2.7 MB**



Share

Use Send Reduced from email

1-Tap *Add attachment*



3-Tap *Photos*

- find/select your photo



2-Tap *Get Reduced*



4-Compose email

Note: reduced file size
• *original 2.7 MB*

174.7 kB

Original:

- 12 mp (4080x3072)
- 2.7 MB



Send Reduced:

- JPEG quality: 85
- Max resolution 1024
 - 0.78 mp (1024x771)
- file size 175 KB (6.5% of original)

Original 2.7 mp photo



Minor artifacts in *Send Reduced* 0.78 mp copy

No problem if recipient viewing entire photo on a computer screen

Share

When recipient needs more

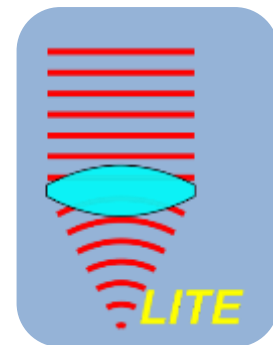
Recipient needs to

- print image
- zoom in on small portion
- edit image

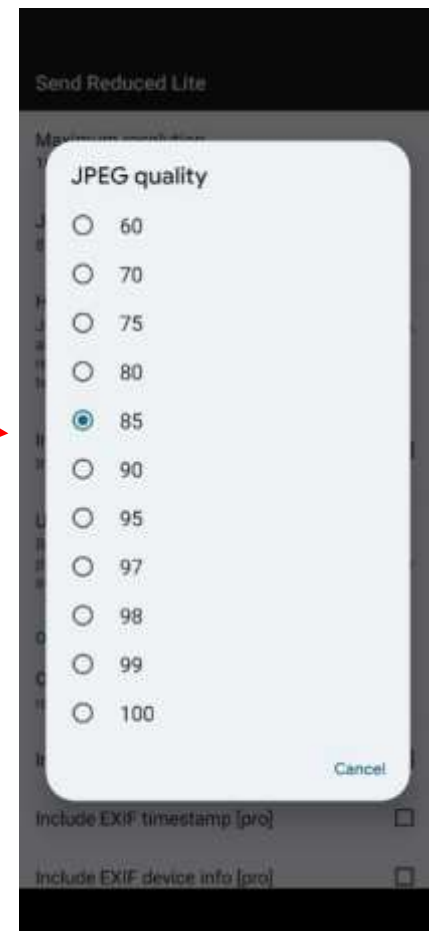
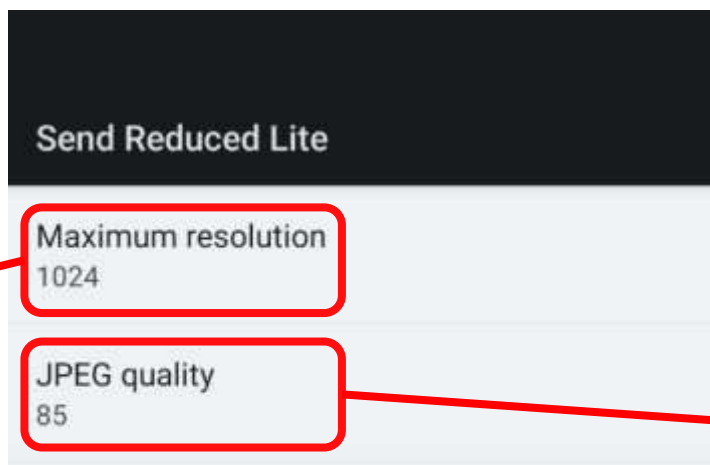
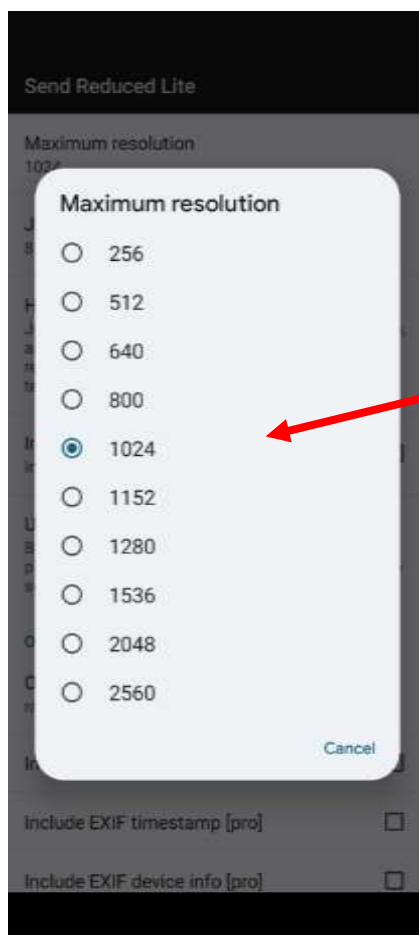


Share

Fine tuning

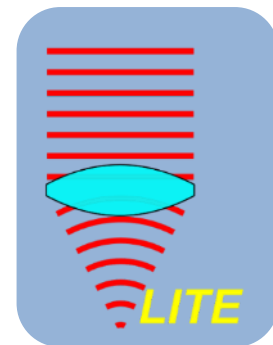


Only reason to run app directly is to change settings



Share

Maximum resolution



Resolution

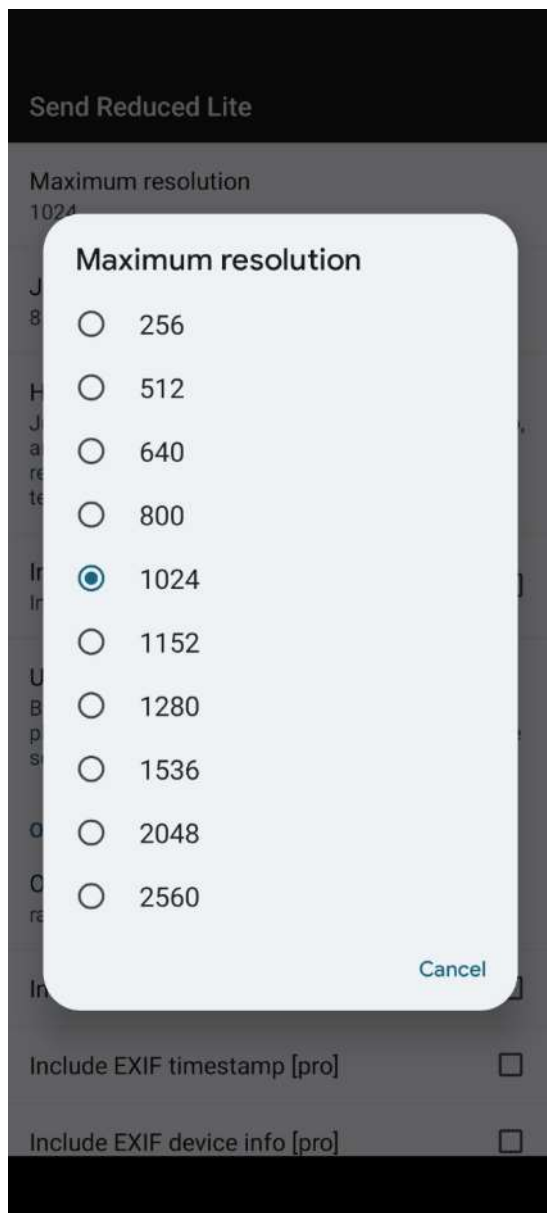
- reduce number of individual pixels that make up the image
- *photos will never be made larger*

How will recipient use the photo? Just viewing on-screen?

- HD monitor: 1920x1080 pixels (2 mp)
- 4K monitor: 3840x2160 pixels
- any point in sending 12 mp photo to someone who will view it downsized to 2 mp??

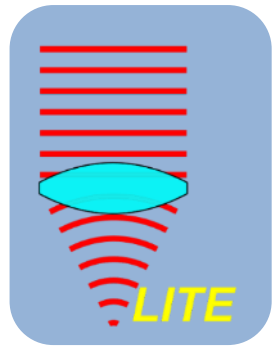
Recommendation: between 1024 and 2048

- *this presentation uses 1024 for examples*



Share

JPEG quality



JPEG quality

- reduce file size by throwing away fine detail

Below 85

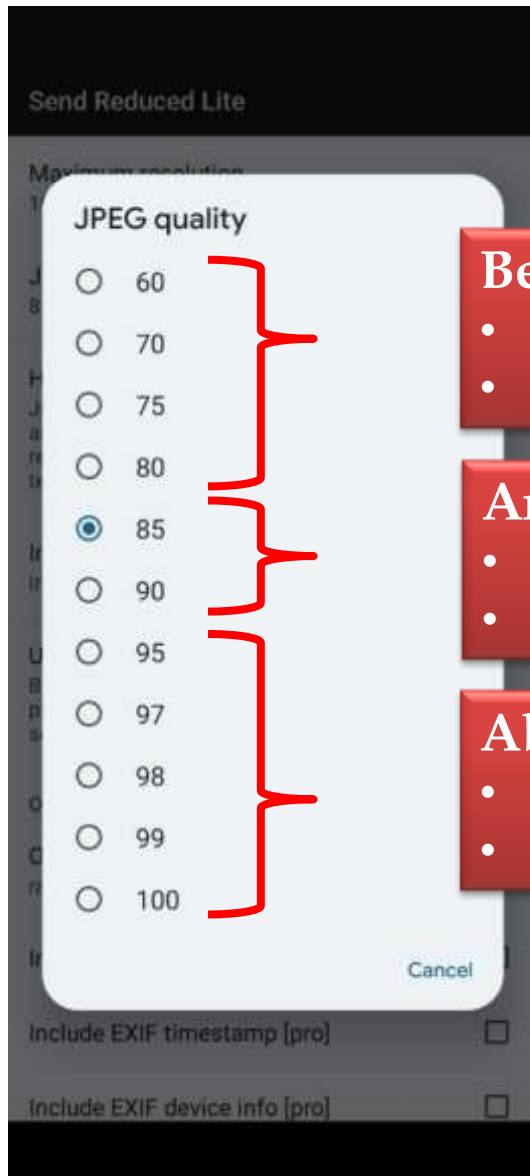
- increasing artifacting
- smaller files

Around 85 or 90

- very little noticeable decrease in quality
- good reduction in file size

Above 85 or 90

- (very) minor noticeable change in quality
- larger files



Recommendation: leave at 85 or experiment with your photos

- *this presentation uses 85 for examples*

Share

Why pay: *Send Reduced Pro*?

- Support developer
 - only CA\$1.29
- What you get extra
 - not much

Ability to choose filename

- instead of **Image6680475056174285069.jpg**

Ability to include EXIF info

- **Lite** version strips all EXIF info

Send Reduced Lite

Upgrade to Pro

By default, all file information is stripped from the photos. In the Pro version, you can choose to include some of it.

Output privacy settings

Output filename [pro]
random

Include EXIF GPS data [pro] ☐

Include EXIF timestamp [pro] ☐

Include EXIF device info [pro] ☐

Include EXIF basic camera settings ☒

Super strip (experimental) [pro]

Strip all non-image data from file for privacy. The above EXIF options will be ignored. May improve compatibility with older Windows systems. ☐

Share

POPfile – E-mail classifier

- Naive Bayes classifier
- POP3, SMTP, NNTP proxies, IMAP filter and web interface
- Runs on most platforms
- Supports most E-mail clients



<https://sourceforge.net/projects/popfile/>

Tom Trottier

Share

POPfile

- POP=Post Office Protocol
- Bayesian email classifier
- Updates emails with additional headers and/or Subject update for filtering by email program
- Learns from mistakes
- Very accurate
- Works as proxy for reading emails
- Supports secure connections

Create your “buckets”

- Faster to use if bucket names have different initial characters
- Can choose to have:
 - Class in Subject header
 - Class(bucket) name in a separate header
 - Link for reclassifying
 - Quarantine message
 - Bucket colour for words inside displayed messages

POPFile Control Center Shutdown POPFile

History Buckets Magnets Configuration Security Advanced

Bucket Configuration

Bucket Name	Distinct Words	Subject Header Modification	X-Text-Classification Header	X-POPFile-Link Header	Quarantine Message	Bucket Color
0-lists	38,590	☐	☒	☒	☐	black v
1-rv	70,255	☐	☒	☒	☐	blue v
2-fraud	58,486	☐	☒	☒	☐	red v
3-subst-acnts	39,656	☐	☒	☒	☐	purple v
4x4-canoes-camping	26,888	☐	☒	☒	☐	blue v
5-computing	66,707	☐	☒	☒	☐	purple v
6-nation	21,136	☐	☒	☒	☐	purple v
7-thinkpad	3,361	☐	☒	☒	☐	black v
8-radio	8,967	☐	☒	☒	☐	black v
9-ofn-buy-sell	16,556	☐	☒	☒	☐	magenta v
abc-words	7,225	☐	☒	☒	☐	gray v
biketour	31,439	☐	☒	☒	☐	blue v
cyclegroups	45,357	☐	☒	☒	☐	brown v
d-stockfraud	0	☐	☒	☒	☐	red v
email-pegasus	8,676	☐	☒	☒	☐	black v
family-friends	23,903	☐	☒	☒	☐	magenta v
games-bridge	34,606	☐	☒	☒	☐	blue v
health	17,404	☐	☒	☒	☐	darkcyan v
image	36,226	☐	☒	☒	☐	darkorange v
j-ebay	34,907	☐	☒	☒	☐	black v
k9	6,585	☐	☒	☒	☐	darkcyan v
linux-open-source	10,528	☐	☒	☒	☐	black v
mensa	25,436	☐	☒	☒	☐	green v
n-bbo	38,746	☒	☒	☒	☐	black v
om	3,677	☐	☒	☒	☐	blue v
pda-phone	21,524	☐	☒	☒	☐	darkcyan v
quiz	2,371	☐	☒	☒	☐	black v
residence	4,993	☐	☒	☒	☐	brown v
spam	97,477	☐	☒	☒	☐	red v
toastmasters	6,175	☐	☒	☒	☐	blue v
urbis	61,315	☐	☒	☒	☐	purple v
virus	96,551	☐	☒	☒	☐	red v
work	10,976	☐	☒	☒	☐	blue v
x-taxi	528	☐	☒	☒	☐	black v
z-cfsc	11,663	☒	☒	☒	☐	black v
unclassified		☐	☒	☒	☐	
Total	988,890					Apply Changes

Classification Accuracy

- Every word is classified in to be in one particular bucket.
- Every email is classified to be in a particular bucket if the words are predominantly in that bucket.
- Mistakes result in word reclassifications

Classification Accuracy

Messages classified: 612,143
Classification errors: 2,752

Accuracy: 99.55%

[Reset Statistics](#)

(Last Reset: Fri Nov 22 20:37:51 2013)

Messages Classified

Bucket	Classification Count	False Positives	False Negatives
0-lists	52,296 (8.54%)	220	122
1-rv	158,055 (25.81%)	118	97
2-fraud	4,689 (0.76%)	22	209
3-sub-acnts	8,190 (1.33%)	54	133
4x4-canoe-camping	3,694 (0.60%)	25	77
5-computing	23,539 (3.84%)	204	177
6-nation	5,870 (0.95%)	18	48
7-thinkpad	432 (0.07%)	9	6
8-radio	1,604 (0.26%)	54	21
9-ofn-buy-sell	65,220 (10.65%)	63	50
abc-words	3,549 (0.57%)	2	9
biketour	22,398 (3.65%)	65	79
cyclegroups	18,215 (2.97%)	105	133
d-stockfraud	0 (0.00%)	0	0
email-pegasus	7,447 (1.21%)	6	21
family-friends	6,387 (1.04%)	80	69
games-bridge	5,166 (0.84%)	41	84
health	3,038 (0.49%)	8	33
image	32,579 (5.32%)	42	111
j-ebay	14,109 (2.30%)	36	107
k9	1,809 (0.29%)	1	15
linux-open-source	3,556 (0.58%)	2	17
mensa	3,621 (0.59%)	19	55
n-bbo	2,909 (0.47%)	20	88
om	51,085 (8.34%)	0	7
pda-phone	6,227 (1.01%)	8	57
quiz	104 (0.01%)	0	6
residence	302 (0.04%)	6	18
spam	84,355 (13.78%)	773	448
toastmasters	1,293 (0.21%)	2	9
urbis	14,372 (2.34%)	49	151
virus	1,561 (0.25%)	50	248
work	1,020 (0.16%)	12	23
x-taxi	137 (0.02%)	5	1
z-cfsc	338 (0.05%)	2	23
unclassified	2,977 (0.48%)	632	

Word Counts

Bucket	Word Count
0-lists	197,005 (5.85%)
1-rv	178,107 (5.29%)
2-fraud	114,179 (3.39%)
3-sub-acnts	117,322 (3.48%)
4x4-canoe-camping	117,234 (3.48%)
5-computing	296,961 (8.82%)
6-nation	83,146 (2.47%)
7-thinkpad	6,426 (0.19%)
8-radio	29,254 (0.86%)
9-ofn-buy-sell	66,284 (1.97%)
abc-words	28,062 (0.83%)
biketour	122,703 (3.64%)
cyclegroups	205,600 (6.11%)
d-stockfraud	0 (0.00%)
email-pegasus	22,001 (0.65%)
family-friends	70,828 (2.10%)
games-bridge	102,131 (3.03%)
health	68,495 (2.03%)
image	162,697 (4.83%)
j-ebay	118,914 (3.53%)
k9	27,289 (0.81%)
linux-open-source	29,686 (0.88%)
mensa	97,100 (2.88%)
n-bbo	87,910 (2.61%)
om	10,231 (0.30%)
pda-phone	73,468 (2.18%)
quiz	7,764 (0.23%)
residence	15,932 (0.47%)
spam	404,257 (12.01%)
toastmasters	22,793 (0.67%)
urbis	232,026 (6.89%)
virus	182,128 (5.41%)
work	37,579 (1.11%)
x-taxi	1,510 (0.04%)
z-cfsc	26,424 (0.78%)



100%

“Magnets” to mandate a class

POPFile Control Center

Shutdown POPFile

History

Buckets

Magnets

Configuration

Security

Advanced

Current Magnets

The following magnets cause mail to always be classified into the specified bucket.

Magnet	Bucket	Remove
	Update	Remove

Create New Magnet

These types of magnets are available:

- **From address or name:** For example: john@company.com to match a specific address, company.com to match everyone who sends from company.com, John Doe to match a specific person, John to match all Johns
- **To/Cc address or name:** Like a From: magnet but for the To:/Cc: address in a message
- **Subject words:** For example: hello to match all messages with hello in the subject

Magnet type:

To

Values:

Always goes to bucket:

Create

[POPFile Home Page](#)
[Documentation](#)
[FAQ](#)

**POPFile**
v1.1.3
(12/28/22 18:55 - tom@abacurial.com)

[Request Feature](#)
[Mailing List](#)
[Donate](#)

Configuration

POPFile Control Center

Shutdown POPFile

History

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Advanced

User Interface

Choose skin:
smalldefault ▾

Choose language:
English ▾

History View

Number of messages per page:
20

Number of days of history to keep:
8

☐ Expire Now

History Columns:
☒ Arrived
☒ From
☒ To
☒ Cc
☒ Subject
☒ Date
☒ Size
☒ Bucket

Module Options

User interface web port:
9090

POP3

POP3 listen port:
110

POP3 host:port:user separator character:
:

Allow concurrent POP3 connections:
No

SOCKS V proxy host:

SOCKS V proxy port:
1080

WINDOWS

Run POPFile in a console window?
No

Show POPFile icon in Windows system tray?
Yes

Connection Timeout

Connection timeout in seconds:
59

Logging

Logger output: None ▾

POPFile Home Page

Documentation

FAQ


v1.1.3
(12/28/22 18:56 - tom@abacurial.com)

Request Feature

Mailing List

Donate

Security

[History](#)[Buckets](#)[Magnets](#)[Configuration](#)[Security](#)[Advanced](#)

Stealth Mode/Server Operation

Accept HTTP (User Interface) connections from remote machines (requires POPFile restart):

No (Stealth Mode) [Change to Yes](#)

Accept POP3 connections from remote machines (requires POPFile restart):

No (Stealth Mode) [Change to Yes](#)

Remote Servers

Remote POP3 server (SPA/AUTH or transparent proxy):

[Apply](#)

Remote POP3 port (SPA/AUTH or transparent proxy):

110 [Apply](#)

User Interface Password

Password:

[Apply](#)

Automatic Update Checking

Check daily for updates to POPFile:

No [Change to Yes](#)

(With this turned on POPFile sends once per day the following three values to a script on getpopfile.org: ma (the major version number of your installed POPFile), mi (the minor version number of your installed POPFile) and bn (the build number of your installed POPFile). POPFile receives a response in the form of a graphic that appears at the top of the page if a new version is available. Our web server keeps its log files for several days and then they get deleted; we are not storing any connection between the update checks and individual IP addresses.)

Reporting Statistics

Send statistics daily:

Yes [Change to No](#)

(With this turned on POPFile sends once per day the following three values to a script on getpopfile.org: bc (the total number of buckets that you have), mc (the total number of messages that POPFile has classified) and ec (the total number of classification errors). These three values get stored in a database which is used to generate some **statistics** about how people use POPFile and how well it works. Our web server keeps its log files for several days and then they get deleted; we are not storing any connection between the statistics and individual IP addresses.)

Advanced Configuration

- Ignore common words, like your name, email, etc.

- Other parameters best left alone

POPFile Control CenterShutdown POPFile

HistoryBucketsMagnetsConfigurationSecurityAdvanced

Ignored Words

POPFile ignores the following frequently-used words:

a abacurial, abacurial.com, abacurial.com@returns.groups.yahoo, abbrev, acronym, address, advanced, align, all, also, alt, and, anotherbigword, any, applet, apr, are, area, ask, aug, author

b banner, base, basefont, been, being, bgcolor, bgsound, big, blink, blockquote, body, border, but

c can, caption, cdt, cellspacing, center, cgi, charset, cite, clean, code, col, colgroup, color, com, content-type, could, cst

d date, dec, del, delivery-date, dfn, did, dir, div, does, doing, done

e edt, edu, embed, encoding, esmtp, est, etc

f feb, fig, font, for, form, frame, frameset, fri, from

g gmt, goes, going, gone

h had, has, have, having, head, header:From, header:Subject, header:To, height, helo, helvetica, her, him, his, htm, html, http, https

i iframe, img, inbound, inc, input, ins, isindex, it's, its

j jan, jul, jun

k kbd

l lang, link, listing, localhost, ltd

m mail, mailto, map, mar, marquee, math, may, mbox, menu, message, message-id, meta, mon, multicol, mx.perfora

n nbsp, net, nobr, noframes, not, note, nov

o oct, off, org, our, out, overlay

p param, path, pdt, person, plaintext, pre, pst

r range, received, references, return, return-path

s samp, sans, sat, script, select, sep, serif, she, small, smtp, spacer, span, spot, src, status, strike, strong, sub, subject, sun, sup

t tab, table, tbody, textarea, textflow, tfoot, that, the, thead, this, thu, title, tom, tom@abacurial, tom@abacurial.com, tue

v valign, var

w was, wbr, wed, went, were, width, will, with, would, www

x x-antivirus, x-antivirus-status, xmp, x-received, x-sender

y yes, yet, you, your

Add word:

Remove word:

All POPFile Parameters

This is the complete list of POPFile parameters. Advanced users only: you may change any and click Update; there is no validity checking. Items shown in bold have been changed from the default setting. See [OptionReference](#) for more information on options.

Configuration file: C:/Users/tom/AppData/Roaming/POPFile/popfile.cfg

Parameter	Value
bayes_bad_sqlite_version	4.0.0
bayes_corpus	corpus
bayes_database	popfile.db
bayes_dbauth	
bayes_dbconnect	dbi:SQLite:dbname=\$dl
bayes_dbuser	
bayes_hostname	UNKNOWN
bayes_localhostname	
bayes_nihongo_parser	kakasi
bayes_sqlite_journal_mode	delete
bayes_sqlite_tweaks	4294967295
bayes_subject_mod_left	[
bayes_subject_mod_pos	1
bayes_subject_mod_right	]
bayes_unclassified_weight	100
bayes_xpl_angle	0

config_pidcheck_interval	5
config_piddir	./

GLOBAL_debug	0
GLOBAL_last_update_check	1672185600
GLOBAL_message_cutoff	100000
GLOBAL_msgdir	messages/
GLOBAL_timeout	59
GLOBAL_update_check	0

history_archive	0
history_archive_classes	0
history_archive_dir	archive
history_history_days	8

html_cache_templates	0
html_column_characters	0
html_columns	+inserted,+from,+to,+i
html_data_format	

Adds headers to your email

```
n+DlyMn21sT+fGG+Kzys8jsxSt9p7Pq4CxtDPeIH997epL7s4VhOJtqkSwA  
2VdNY+OAnDGlz4aopFsNSUD44TiedcxB4mgw3pcVsaLovH1sGEVO/gE  
NkaD/WEQQbMWwD  
X-Text-Classification: 5-computing  
X-POPFile-Link: http://127.0.0.1:9090/jump_to_message?view=97532  
X-PM-PLACEHOLDER:
```

I've set my email to show these headers:

```
PF class: 5-computing  
PF link: http://127.0.0.1:9090/jump\_to\_message?view=97532  
Date: Wed, 28 Dec 2022 08:44:41 -0500  
From: Alan <alan.german@opcug.ca>  
Subject: Re: [OPCUG-Member-Forum] Cleaner spam from Indeed  
To: opcug-member-forum@googlegroups.com  
Reply to: opcug-member-forum@googlegroups.com
```

And I can click on the PF link when POPfile got it wrong and POPfile updates its “corpus” of words so it does better next time.

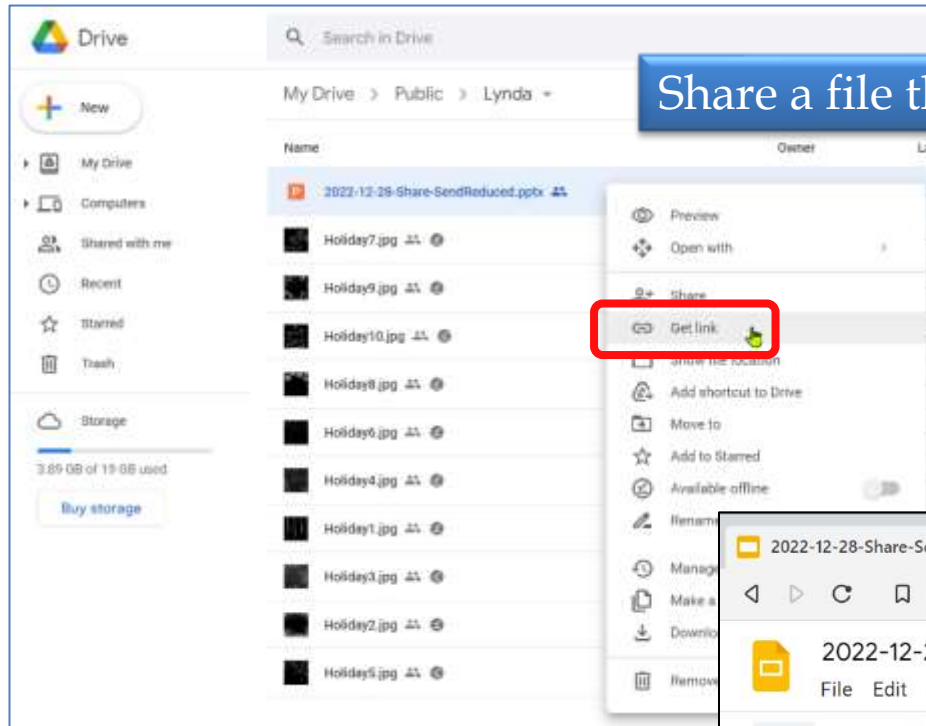
Conclusion

- POPfile can classify emails very accurately into many classes or “buckets” by the words they contain
- If you use email on your machine, not Webmail, then this may help you, especially if you are on many email lists
- When it is wrong, you correct it, and it learns.
- Last updated 2015 – but works with W10 fine
- Available at

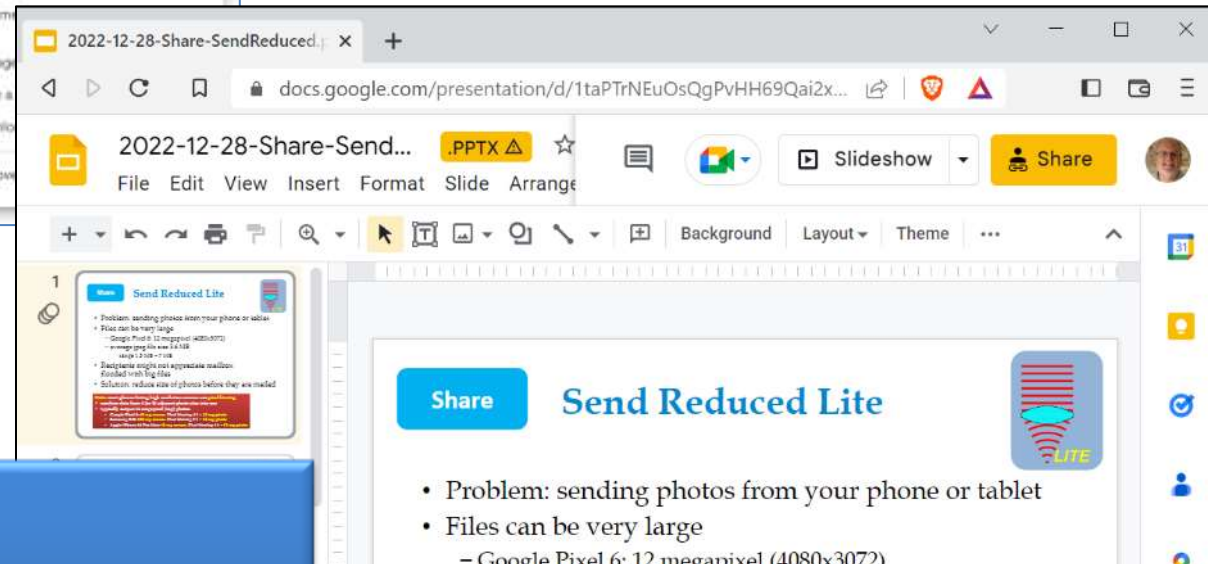
<https://web.archive.org/web/20160308083828/https://getpopfile.org>

Follow-up

Sharing from Google Drive



Share a file through Google Drive & get link

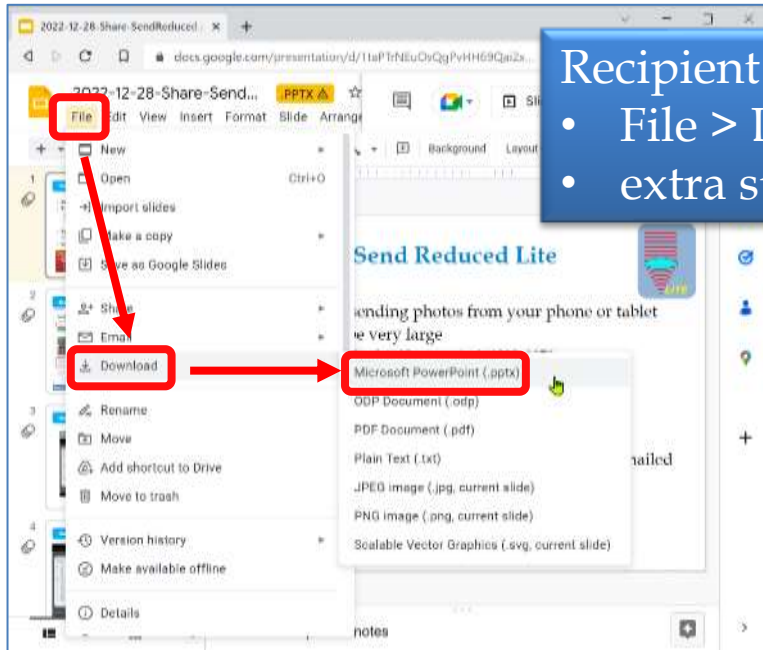


Recipient clicks link:

- default browser opens
- file opens in Google Docs
 - fidelity sometimes less than ideal!
 - recipient may need a copy on their computer

Follow-up

Downloading file



Recipient can download a copy

- File > Download > *filetype*
- extra steps you might have to explain

Q&A 2021-11-17

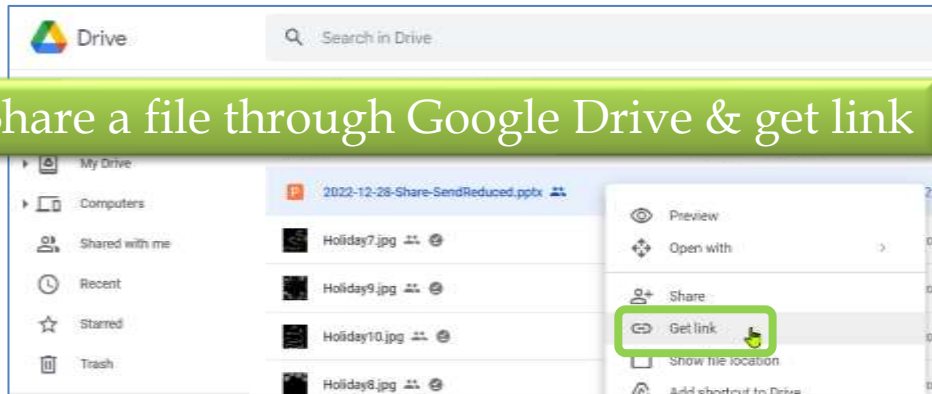
- Stéphane Richard showed how to convert a Google Drive link to a download link
- https://opcug.ca/qa_recordings/20211117_ComputerBasicsStoragePart2.pdf

- ▶ Step 1: Open Google Drive, right click the file and select "Get link" in the menu, then click the button "copy link"
- ▶ Step 2: Paste the link in a text editor (e.g. Notepad)
- ▶ Step 3: Locate and copy the Object ID (shown in **gold** below)
<https://docs.google.com/presentation/d/1pLZA9AS8sz1nKjubW6ShJpXsq5uUd702/edit?usp=sharing&oid=107775269846578761475&rtmpof=true&sd=true>
- ▶ Step 4: Create a new link in the format
 - ▶ <http://drive.google.com/uc?id=ObjectID&export=download>
 - ▶ <https://drive.google.com/uc?id=1pLZA9AS8sz1nKjubW6ShJpXsq5uUd702&export=download>

Follow-up

An easier way...a web service!

Share a file through Google Drive & get link



<https://sites.google.com/site/gdocs2direct/?pli=1>

Click on *Create Direct Link*

Click *Output link*:

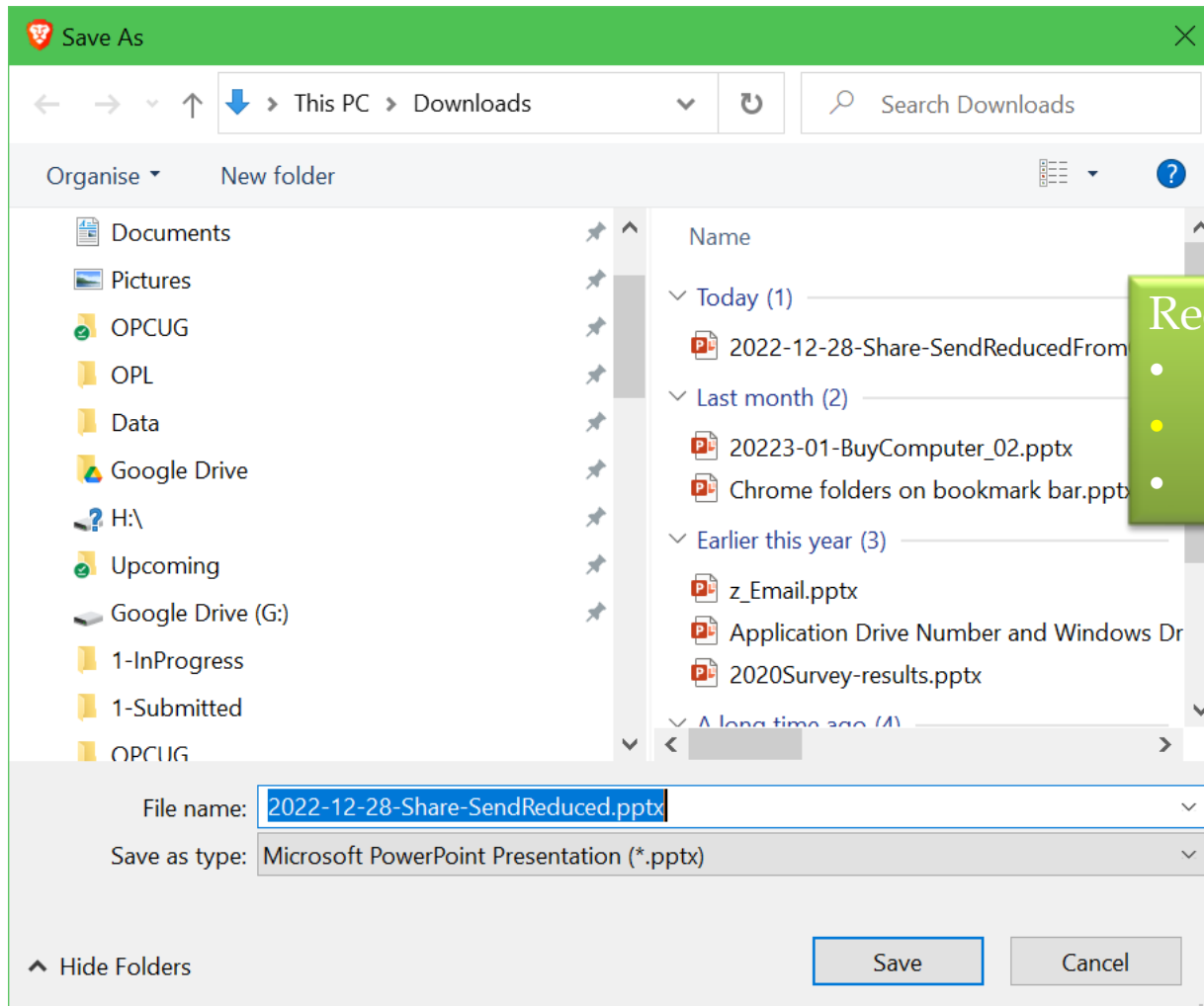
- link automatically copied to clipboard



Paste link from Google Drive

Follow-up

Send converted link



Recipient clicks link

- default browser open
- *Save As* dialogue box opens
- prompted to save downloaded file



**Any other:
Questions
Comments
Shares?**

Free Membership!

- Are you currently a member of OPCUG?
- If so, the Board of Directors will extend your membership by one year – at no charge!
- You will not receive a renewal notice
- Do not send us a membership payment
- Your membership will be extended automatically
- **And, if you are not a member...**



Almost Free Membership!

- Join OPCUG now (or before March 31, 2023)
- Annual membership fee is \$20.00
- **BUT, you will receive two-years of membership for the price of one!**

<https://opcug.ca/join-or-renew/>



Programme and Publicity

- Lawrence Patterson is not going to continue as a member of the club's Board of Directors
- He was taking care of the programme for the monthly meetings and publicity
- This creates a vacancy on the BOD
- If you are interested in joining the Board, contact Bob Herres, the 2023 Election Chair via E-mail:



nominations@opcug.ca

January Meeting



How to Buy a PC

Alan German and Chris Taylor
Ottawa PC Users' Group

January 11, 2023
7:30 pm





*suggestions for meeting
and Q&A topics, and
smartphone apps*

Don't forget:

*Next Q&A
Jan 4th*

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

SuggestionBox@opcug.ca

**OPCUG'S BOARD OF DIRECTORS
WOULD LIKE TO WISH YOU**



HAPPY NEW YEAR!