



Alan German & Chris Taylor

Ottawa PC Users' Group

July 19, 2023

Share

So, you want to be a programmer...?

- Automate tasks
- Cross-platform (Windows and Linux)
- Own use plus possible distribution as open-source
- Looking at Python and C
- Python – interpreter (no executable file)
 - requires end user to install third-party modules
e.g. sqlite (SQL db), tkinter (GUI)
- C – compiler, linker, executable file
 - steeper learning curve
e.g. no built-in string functions
- Both are mature packages so lots of help available

Tutorials For Beginners - BeginnersBook

The expert at anything was once a beginner – Helen Hayes



Java >



Java Examples >



Java Collections >



Servlet >



Java String >



jQuery >



C >



C Examples >



Java Swing >



C++ >



DBMS >



Perl >



JSP >



JSTL >



JSON >



Java I/O >



MongoDB >



Kotlin >



WordPress >



SEO >



Computer Network >



Java AWT >

<https://beginnersbook.com>

C Tutorial – Learn C Programming with examples

BY CHAITANYA SINGH | FILED UNDER: [C-PROGRAMMING](#)

Learning C programming is easy if you follow the tutorials in the given order and practice C programs along the way. This **C tutorial** is designed for beginners so you won't face any difficulty even if you have no prior knowledge in C language.

C is a general purpose computer programming language. A general purpose language is a language that is widely used in various domains and not specific to a particular domain. C programming language was created in 1972 by Dennis Ritchie at AT&T bell laboratories in U.S.A.

Introduction to C

C is a very popular programming language because of the features it offers. Here are some of the features of C programming language.

1. Simple

C language is simple and easy to learn.

2. Portable

C is a machine independent language, which means a C program written on one machine can run on another machine without requiring a code change.

3. Fast

C is a compiler based language and it supports only useful features which makes the compilation of C

C Programming Tutorial

- [C Tutorial](#)
- [History of C](#)
- [Features of C](#)
- [Turbo C++ installation](#)
- [First C Program](#)
- [printf scanf](#)
- [Variables in C](#)
- [Data Types in C](#)
- [C - Keywords](#)
- [C Identifiers](#)
- [C Comments](#)
- [Operator precedence](#)
- [C - if statement](#)
- [C - if..else](#)
- [C - for loop](#)
- [C - while loop](#)
- [C - do while loop](#)
- [C - continue](#)
- [C - break statement](#)
- [C - switch..case](#)
- [C - goto statement](#)
- [C - Arrays](#)
- [C - Pointers](#)

C Program Structure – First C Program

BY CHAITANYA SINGH | FILED UNDER: [C-PROGRAMMING](#)

A C program source code can be written in any text editor; however the file should be saved with .c extension. Lets write the First C program.

First C Program

```
/* Demo Program written by Chaitanya on BeginnersBook.com*/
#include<stdio.h>
int main()
{
    int num;
    printf("Enter your age: ");
    scanf("%d", &num);
    if (num <18)
    {
        printf("you are not eligible for voting");
    }
    else
    {
        printf("You can vote!!");
    }
    return 0;
}
```

Output:

```
Enter your age:25
You can vote!!
```

Lets understand this Program:

Comment: Comment start with '/' and end with '*/'. Comments are not mandatory but still it's a good practice if you use them, it improves the readability of the code. A program can have any number of comments.

C Programming Tutorial

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BY CHAITANYA SINGH

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program, it waits for a user input (age) and once user enters the age, it does the processing or rest of the statements based on the age input by user.

Main() function: It is the starting point of all the C programs. The execution of C source code begins with this function.

More about main () Function in C program

The main () function should be present in all C programs as your program won't begin without this function.

Return type of main () function: The return type for `main ()` function should always be `int`.

Why it has a return type and what's the need of it? The compiler should know whether your program compiled successfully or it has failed. In order to know this it checks the return value of function `main ()`. If return value is 0 then it means that the program is successful otherwise it assumes that there is a problem, this is why we have a `return 0` statement at the end of the main function.

Structure of main function: Function name is followed by return type. There should be close parenthesis after function name. If there are parameters or arguments then it must be within this parenthesis. The block of code inside braces is function body. We will discuss more about functions in the separate tutorial: [Functions in C Programming](#).



Mini-rant: Microsoft is a bully

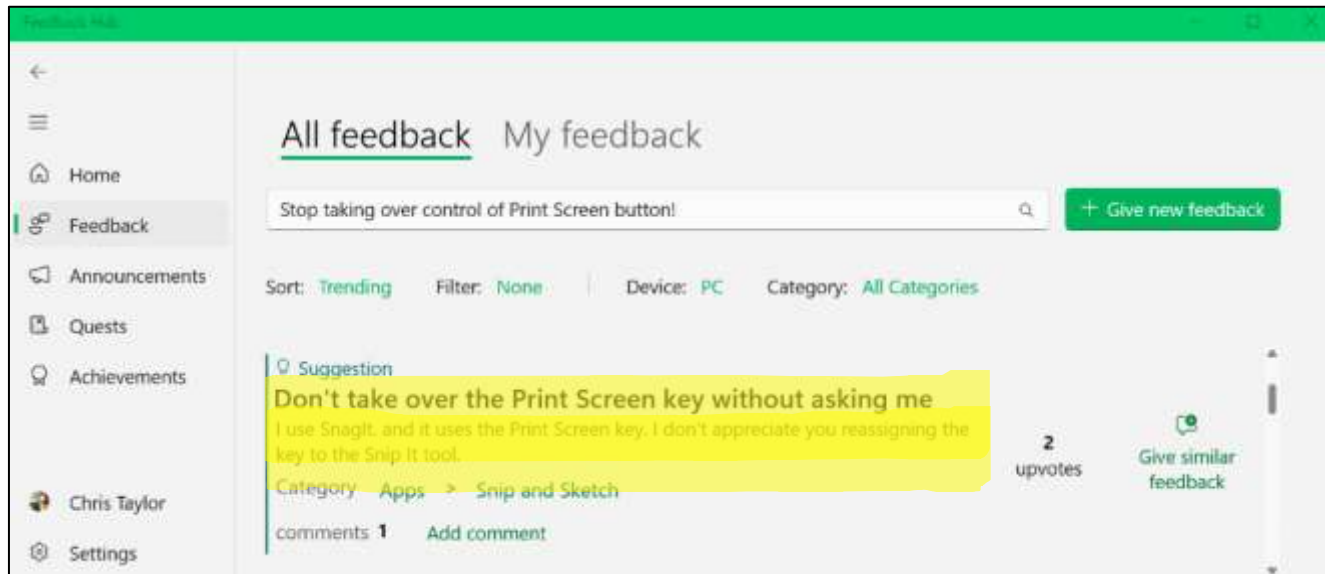
- I use TechSmith's *SnagIt*
 - *much* more capable than Windows *Snipping Tool*
- After installing July's Windows updates
 - pressing the *Print Screen* key opened Windows *Snipping Tool*
 - rather than *SnagIt*
- Had to check into Google University to find solution
 - *Settings > Accessibility > Keyboard*
 - toggle off *Use the Print screen key to open Snipping Tool*
 - and I had to reboot
 - and I had to stop swearing at Microsoft





Screaming into the void (maybe)

- Ran *Feedback Hub*
 - searched *Stop taking over control of Print Screen button*



Added my 2 cents

I ran into this today after installing Windows updates...

Microsoft! Stop taking over keystrokes that are in use by other programs. It is bully behaviour that shows no respect for your users or the rich 3rd party ecosystem that has helped make Windows a success.



YouTube Tech

- Some OPCUG members must use YouTube and can identify gems that would be of interest to others
- What YouTube videos or channels would you recommend?
- Restrict suggestions for Q&A to tech items (no cute cats or babies!)



Nine To Five



- Today I bring you 9To5!
- No, not the song by Dolly Parton
- This is the YouTube channel from the web site that is part of the media group that is not Linus

9T@5Google

<https://www.youtube.com/@9to5Google/about>

Stewart Bruce

Since 2014 9to5 has been reporting on all things Android and more...

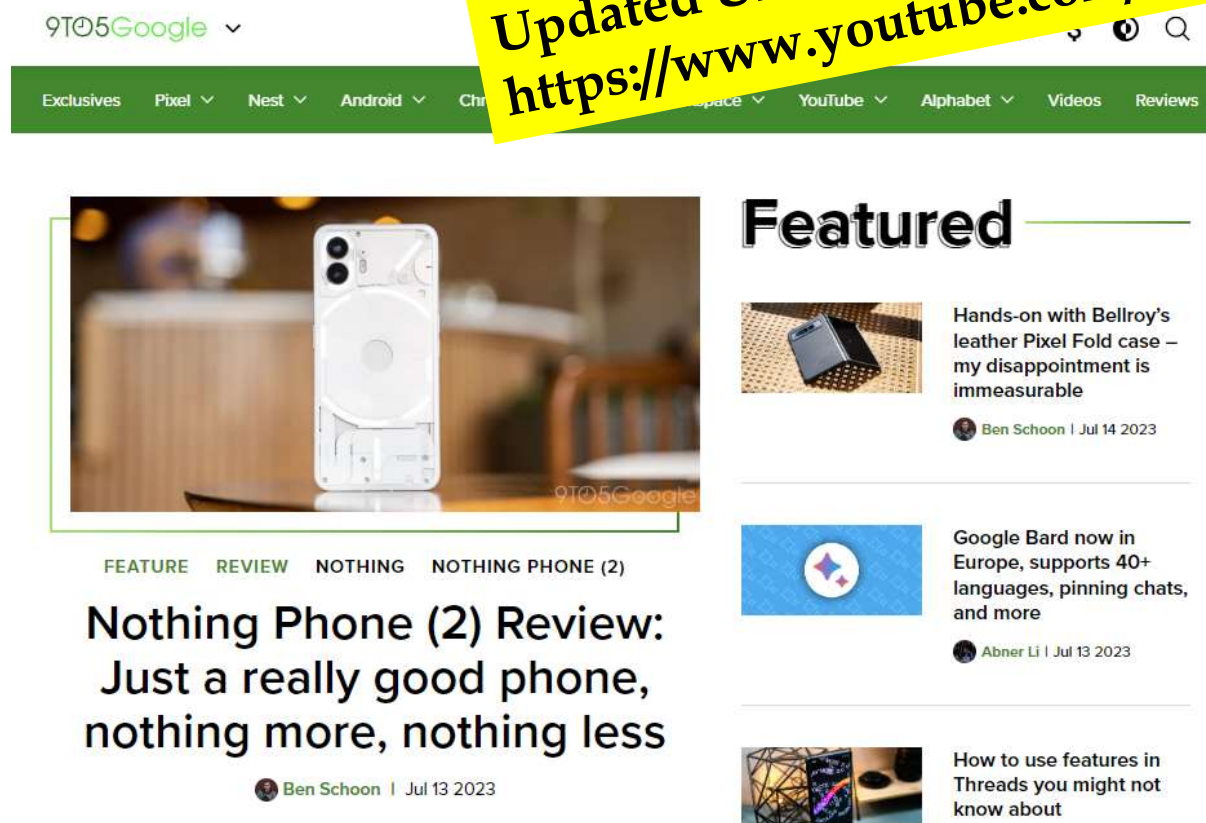
- the latest in Google
- we focus on Android, Google Pixel, Google Home (Hub, Mini, Max, and more)
- Chromebooks
- Google Pixel Slate, Pixelbook
- the latest handsets from the various Android OEMs
- and much more



- And, yes, there is an Apple channel in this group
- The home web site is found at:

~~<https://9to5google.com>~~

Updated URL:
<https://www.youtube.com/@9to5Mac/about>



- What's nice is if you click the down-arrow beside the title at the top left, links will drop down to other web sites in the group
- *9to5Mac* is here as well as *9to5toys*, *electrek*, *DroneDJ* and *Space Explored*
- All are focused on different aspects of the new tech in our changing world
- Clicking the + symbol at the top right will open a menu of various social platforms
- You can pick and choose from to view each site's news.



Stewart on



Android

Teleprompter For Video

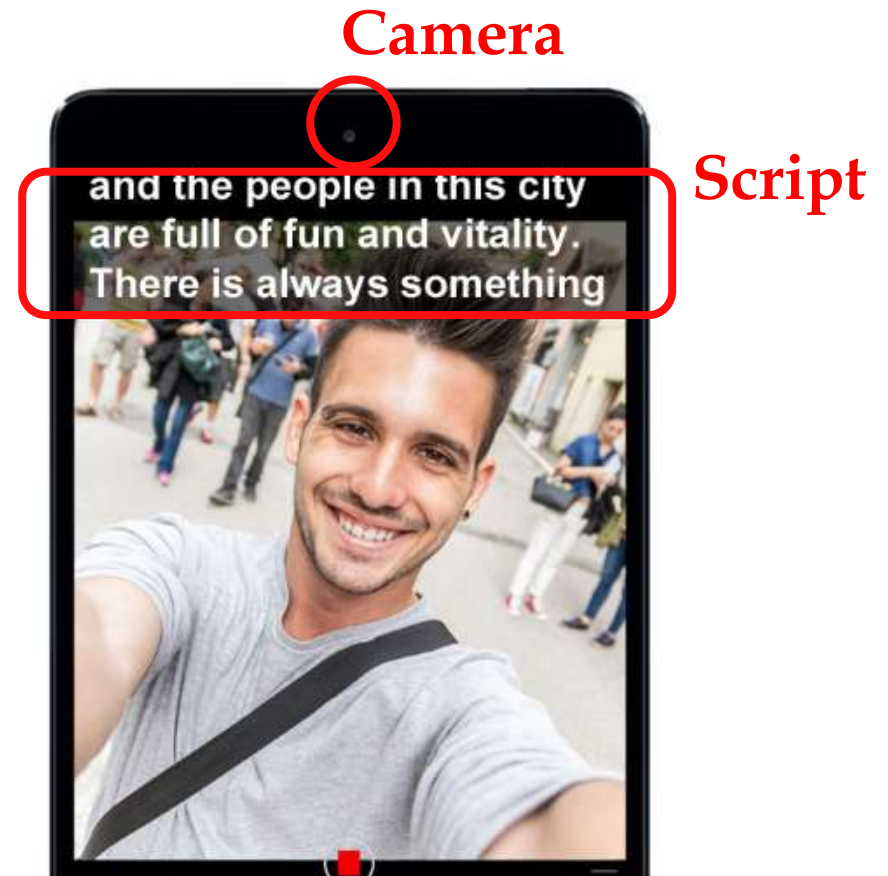
- This app lets you create a script to be used in teleprompter format on your mobile device
- A free version is available
- More features are available for a price

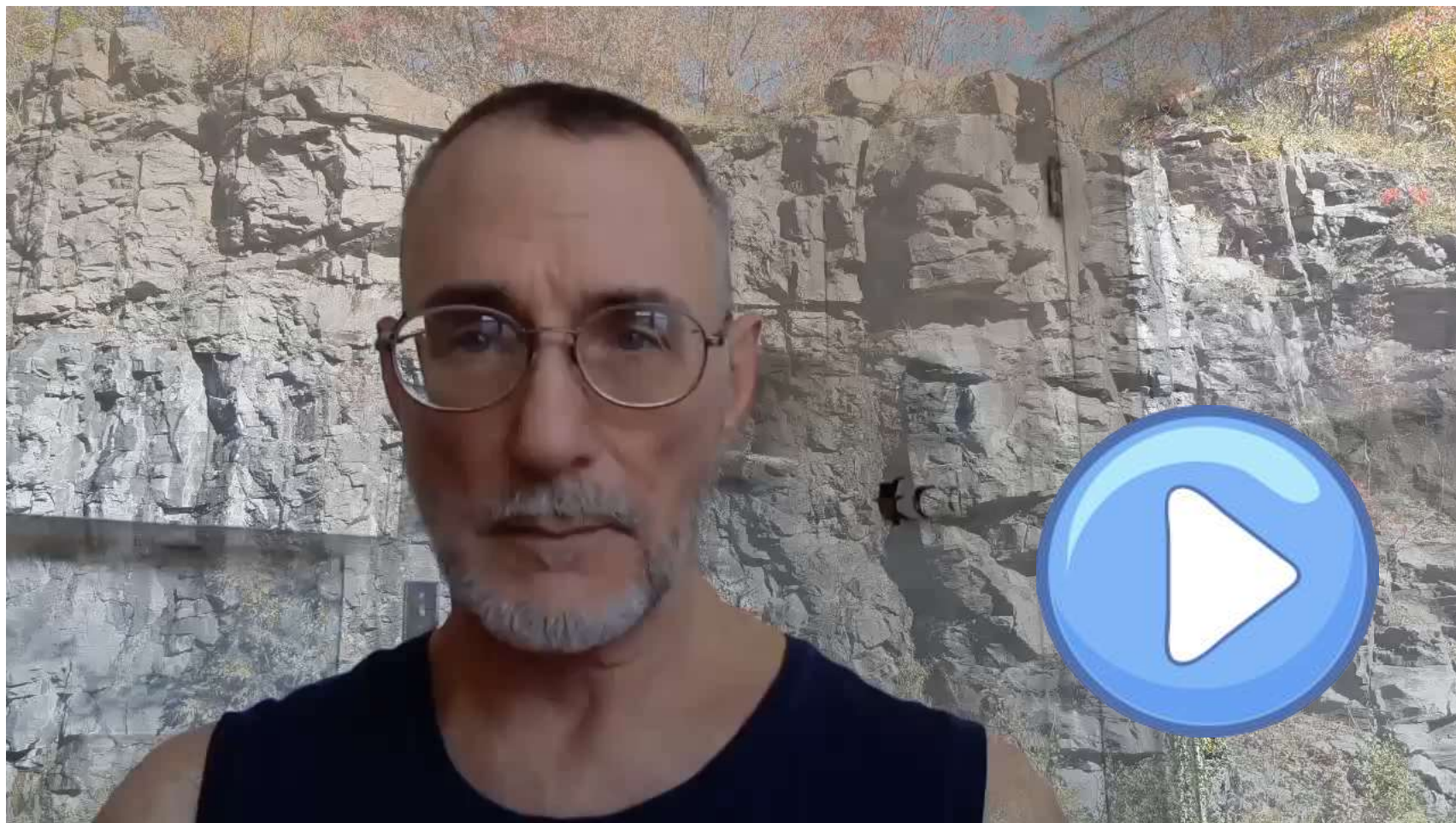
 **Teleprompter** FOR VIDEO

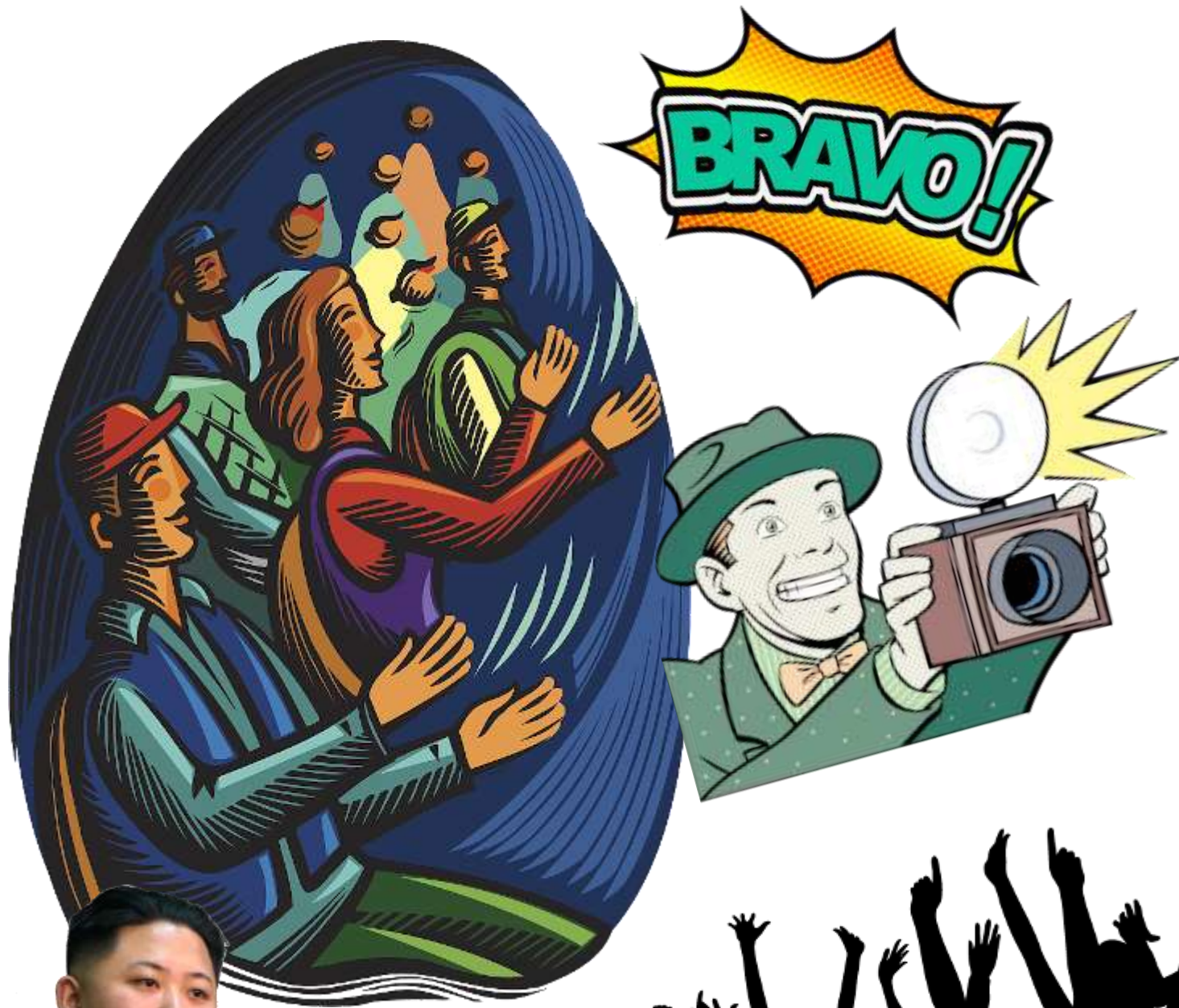
<https://scripted.video/>

Features...

- Create word-perfect videos
- Record videos in a single take
- Eliminate those “ums” and “ahs”
- Maintain eye contact with your audience







Share

FreeFileSync – Part 3

Replacing
Windows *File History*
with
FreeFileSync

Part 3: versioning

Share

Our *FreeFileSync* journey

Want to replace *File History* with *FreeFileSync*

- Why? https://opcug.ca/qa_recordings/20230628_PowerPoint.pdf

Q&A 2023-07-05

https://opcug.ca/qa_recordings/20230705_PowerPoint.pdf

- use *FreeFileSync* to **mirror**
C:\Users\CTaylor\Documents to *E:\Backup\Documents*

Q&A 2023-07-12

https://opcug.ca/qa_recordings/20230712_PowerPoint.pdf

- use Windows Task Scheduler to automate process

This week

- preserve old versions of files

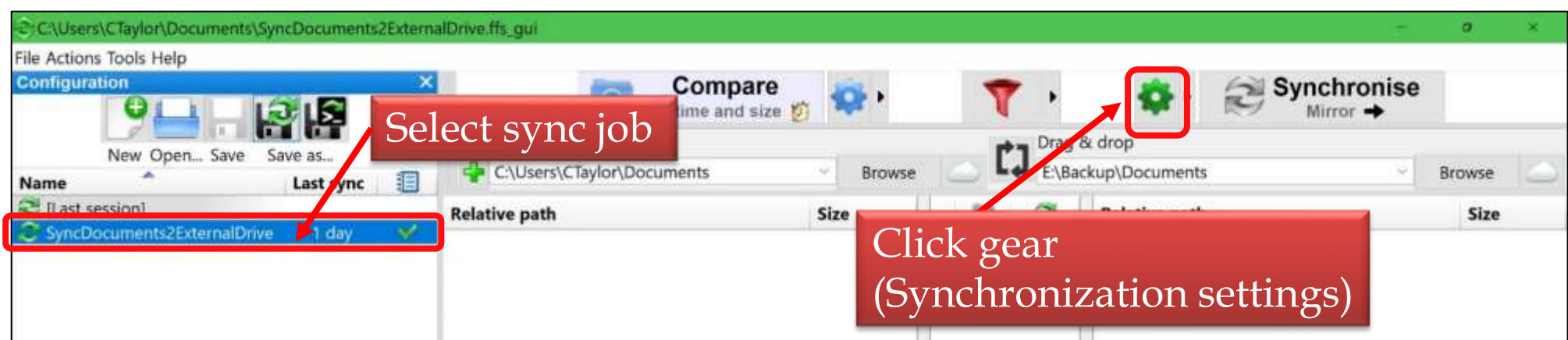


Share

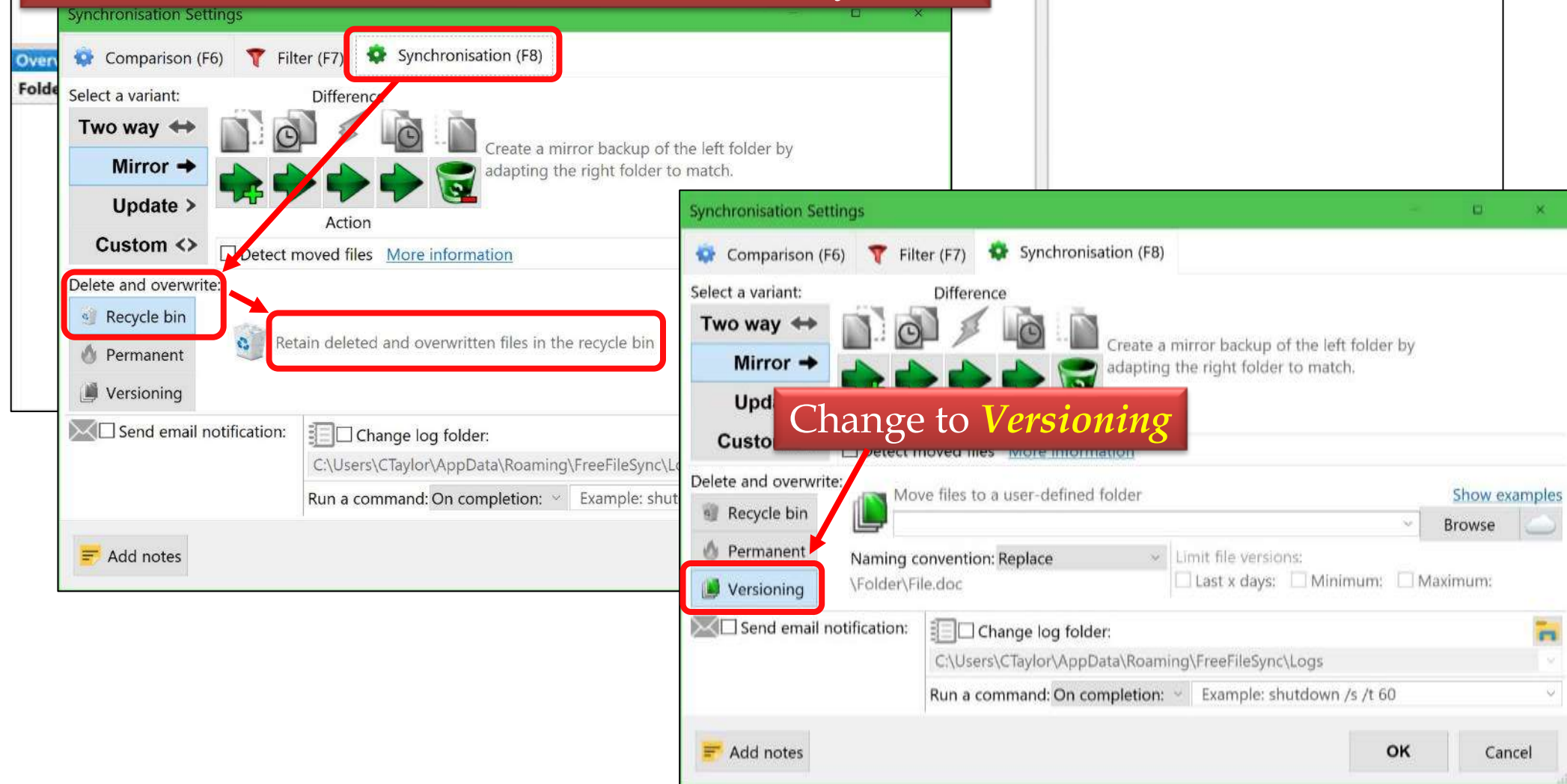
FreeFileSync Versioning

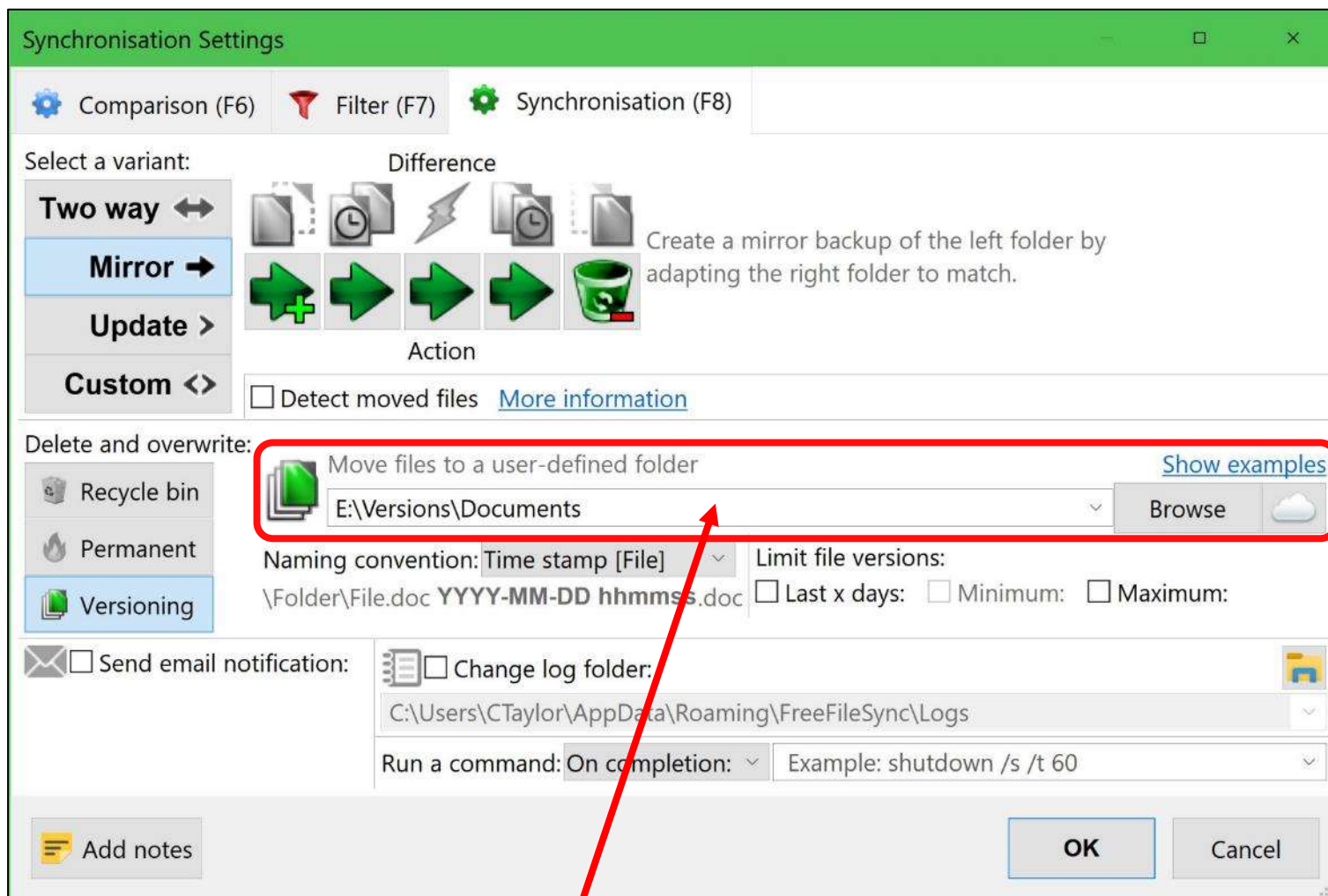
- When files are modified or deleted in *C:\Users\CTaylor\Documents*
- *FreeFileSync* overwrites or deletes copy in *E:\Backup\Documents*
- **Remember: we are doing a *Mirror* sync**
 - **files on drive E will be exactly the same as files on drive C**
- Want to preserve the version in *E:\Backup\Documents*
 - then do normal *FreeFileSync* action (overwrite or delete)





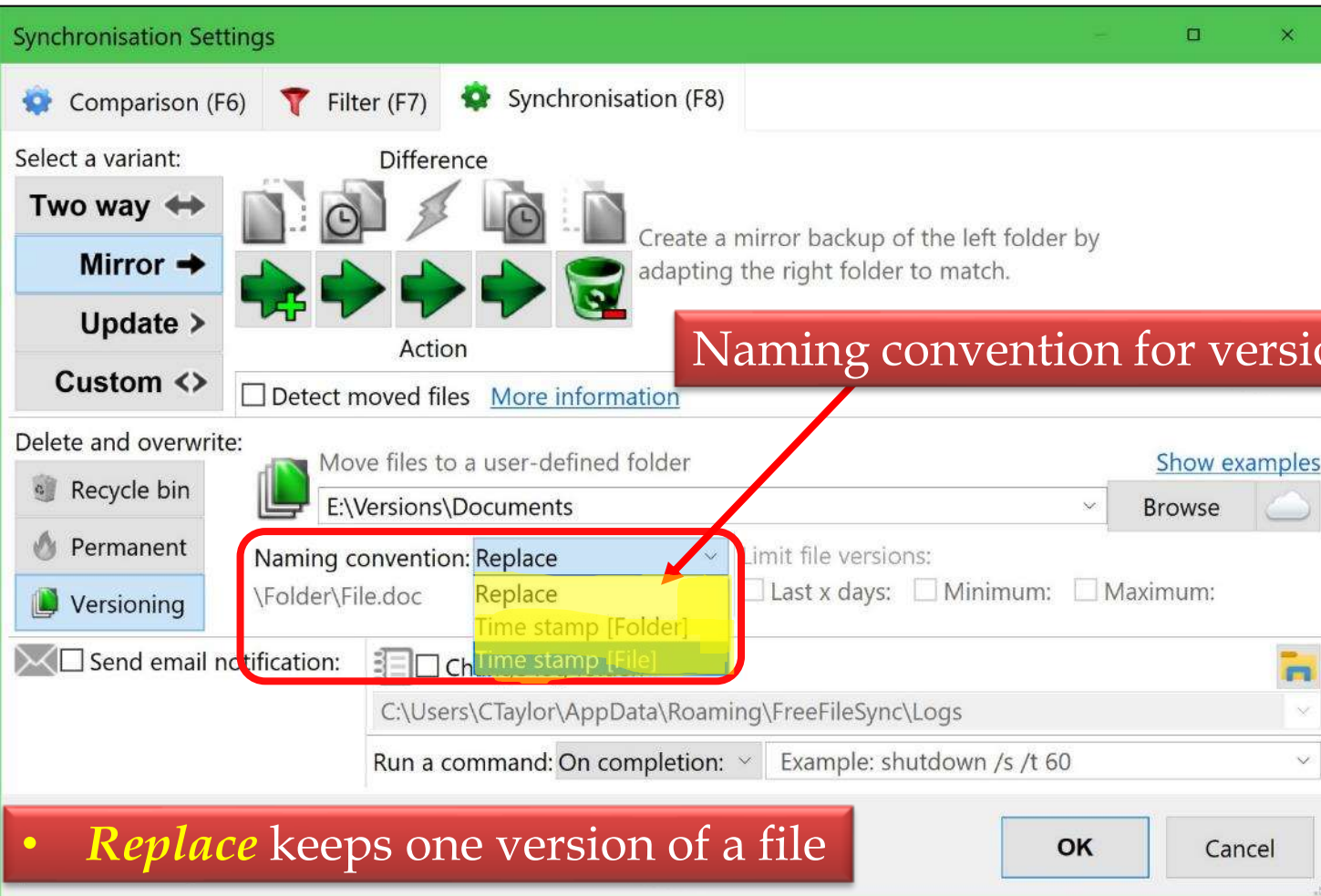
Default: send deleted/overwritten files to recycle bin





Choose location for versions

- my backup location is **E:\Backup\Documents**
- version folder **E:\Versions\Documents**



Naming convention for versions

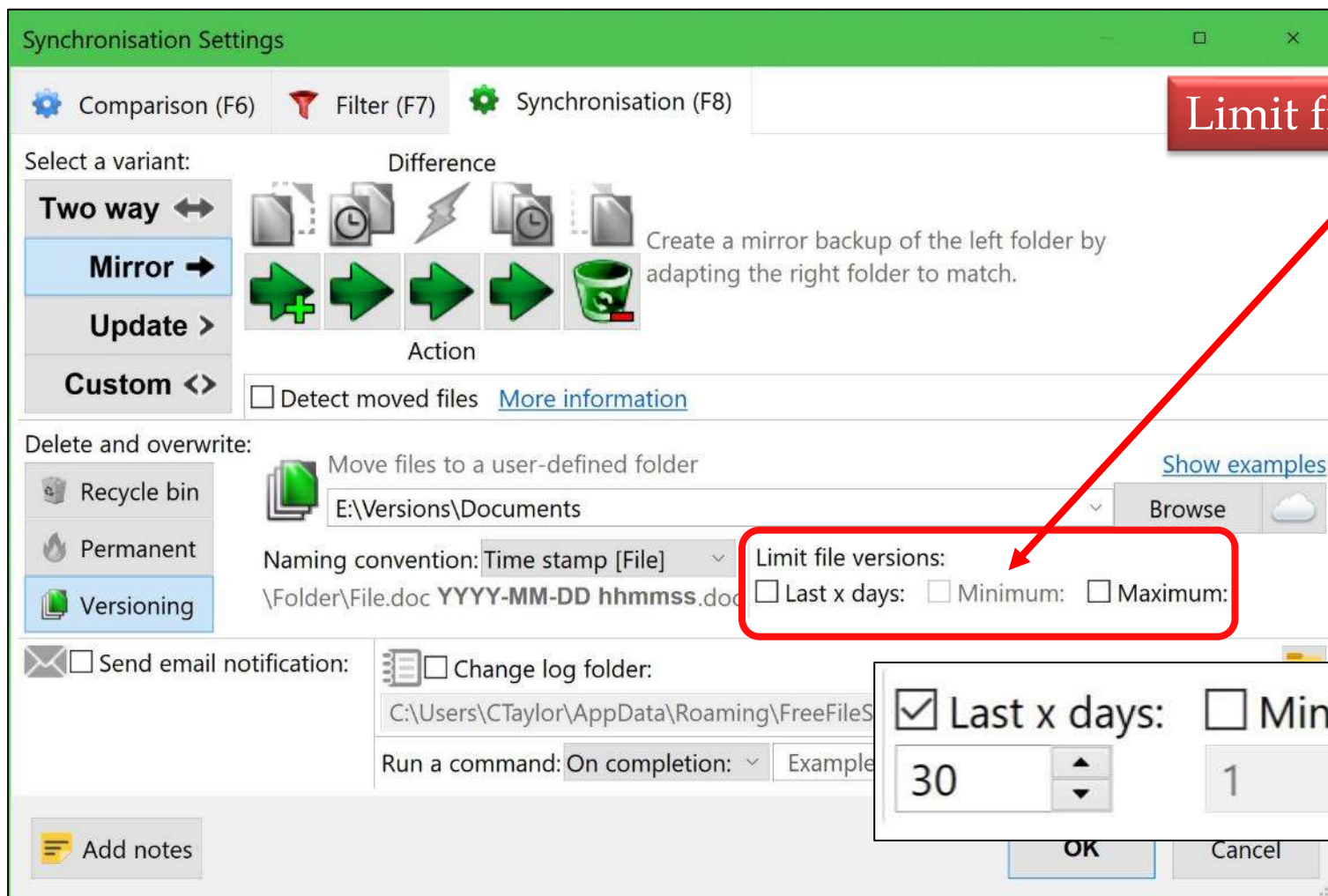
- **Replace** keeps one version of a file

- **Time stamp [Folder]** create folder with date/time stamp & put file in folder
 - can end up with a huge number of folders each with one file

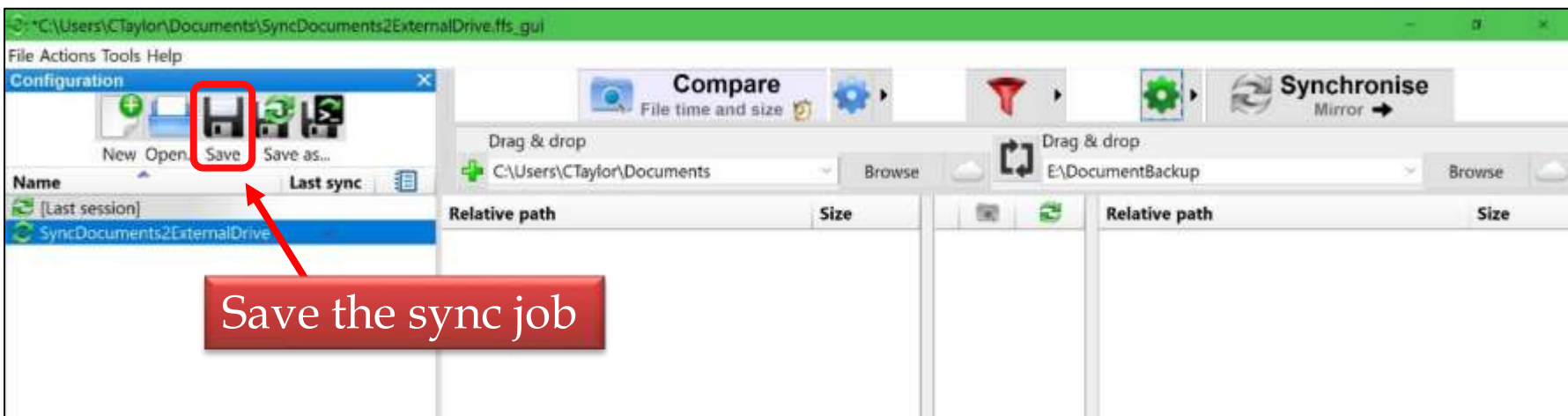
- **Time stamp [File]** add date/time stamp to file name for version
 - E:\Versions\Documents\FreeFileSync.pptx 2023-07-06 101552.pptx
 - E:\Versions\Documents\FreeFileSync.pptx 2023-07-06 101414.pptx
 - E:\Versions\Documents\FreeFileSync.pptx 2023-07-06 101332.pptx

Time stamp
• 10:15:52

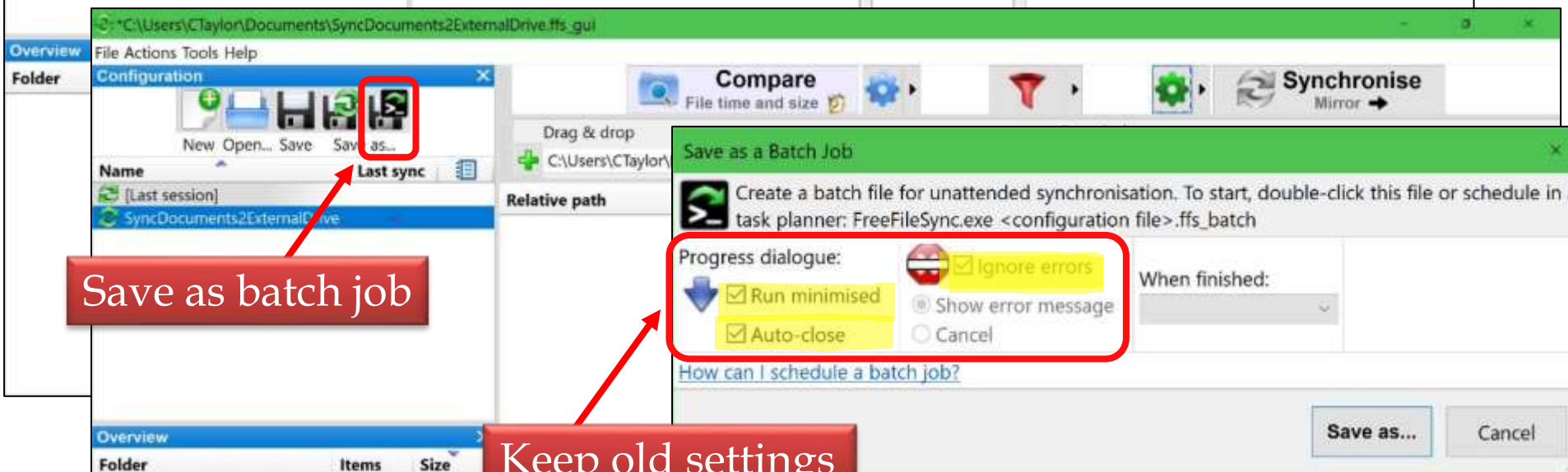
My preference is 3rd option: **Time stamp [File]**



- Many combinations possible
 - Just **Last x days**: keep every version less than **x** days old
 - Just **Maximum**: keep specific number of versions regardless of age
 - **Last x days** and **Maximum**: keep max number of versions but only last x days
 - **Last x days** and **Minimum**: at least the minimum number regardless of age
 - etc.



Save the sync job

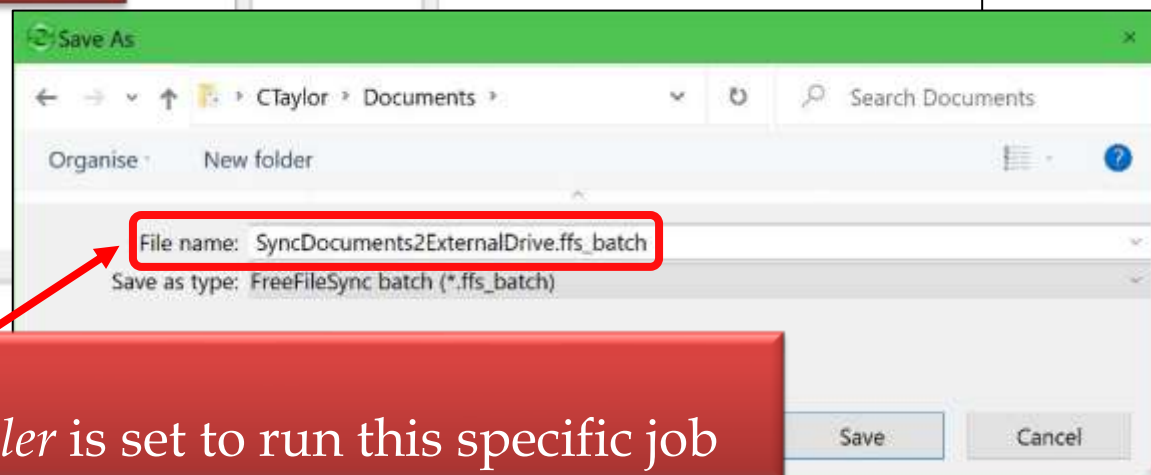


Save as batch job

Keep old settings

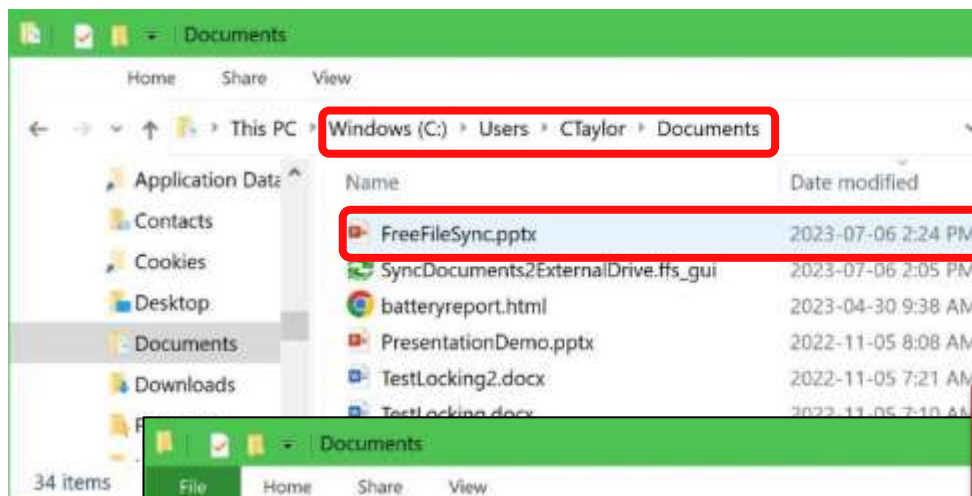
Keep same filename

- Windows Task Scheduler is set to run this specific job



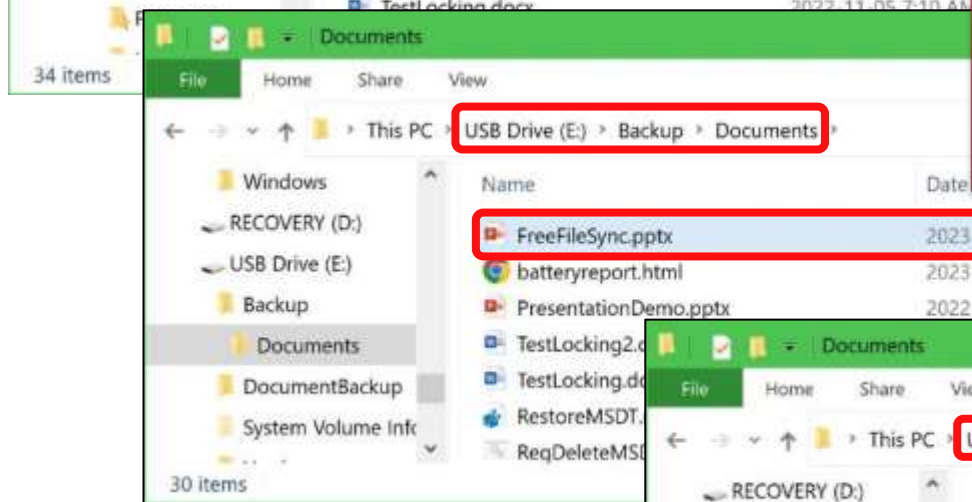
Share

Recovering old versions



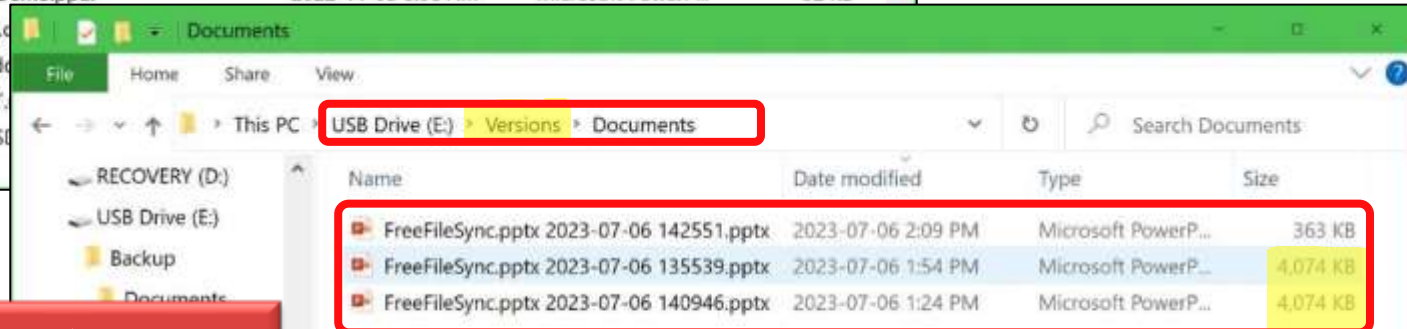
Oops...this used to be multi-megabytes

- accidentally deleted slides and saved!



Check E:\Backup\Documents

- automatic synchronization already ran
- remember: *mirror* synchronization



Check E:\Versions\Documents

- several old versions
- incl. the multi-megabyte versions before my mistake

If I hadn't been using FreeFileSync

- all versions of file created/modified same day
- nightly image backup would have nothing!

Share

Results

- **E:\Backup\Documents**
will always have exactly the same files as
C:\Users\CTaylor\Documents
- checked every 5 minutes for changes
- **E:\Versions\Documents**
has old versions of files
- Are we done?
 - not quite...
 - what if I want additional folders backed up?

NEW



MORE TO COME...

OPCUG



Users helping users
for over 40 years

Mouse Tales



Share

Mouse Tales

- My old Mouse was two years old when it died...
- That mouse was a real **Hero**
- It came from the **Logitech** Family...



Share

Mouse Tales

I always kept a bowl of water nearby



Share

Mouse Tales

My Hero wired mouse was okay
until I spilled coffee on it...



Logitech G502 Hero
Gaming Mouse

\$60.00 Wired

\$140.00 Wireless

Share

Mouse Tales

Time to go

Mouse Shopping



Share

Mouse Tales

I found
this mouse.

**ESKA EM200
Wired Mouse**

\$16.99



Share

Mouse Tales

ESKA EM200 Wired Mouse



Share

Mouse Tales

ESKA EM200 Wired Mouse



White



Black

Customizable
Style

Share

Mouse Tales

ESKA EM200 Wired Mouse

Tunable
Weight
System

With the cover
removed, the
Weight Drawer
slides out...



Share

Mouse Tales

ESKA EM200 Wired Mouse

Tunable
Weight
System



Share

Mouse Tales

Left Button

Right Button

Forward
Button

Backward
Button

Grippy Silicone
Scroll Wheel



**ESKA EM200
Wired Mouse**
in use, lights on

Share

Mouse Tales

ESKA EM200 Wired Mouse

- This Mouse has a 12,000 DPI Optical Sensor
- 6 Adjustable DPI Settings
- 1000 2000 3200 4800 6400 & 12000

Tech
Tip



What is DPI ?

DPI is Dots Per Inch. This refers to how quickly the mouse cursor, moves across the screen.

A higher DPI rate, means the cursor moves faster.

Share

Mouse Tales

ESKA EM200 Wired Mouse

You can change the **DPI**, or how fast the mouse curser moves, while you are using it!



Wow!

Increase
Curser Speed

Decrease
Curser Speed



Share

Mouse Tales

ESKA EM200 Wired Mouse



Share

Mouse Tales

12,000 DPI Optical Sensor with 6 Adjustable DPI settings



ESKA EM200



1000DPI



2000DPI



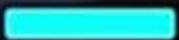
3200DPI



4800DPI



6400DPI



12000DPI

Share

Mouse Tales

12,000 DPI Optical Sensor with 6 Adjustable DPI settings



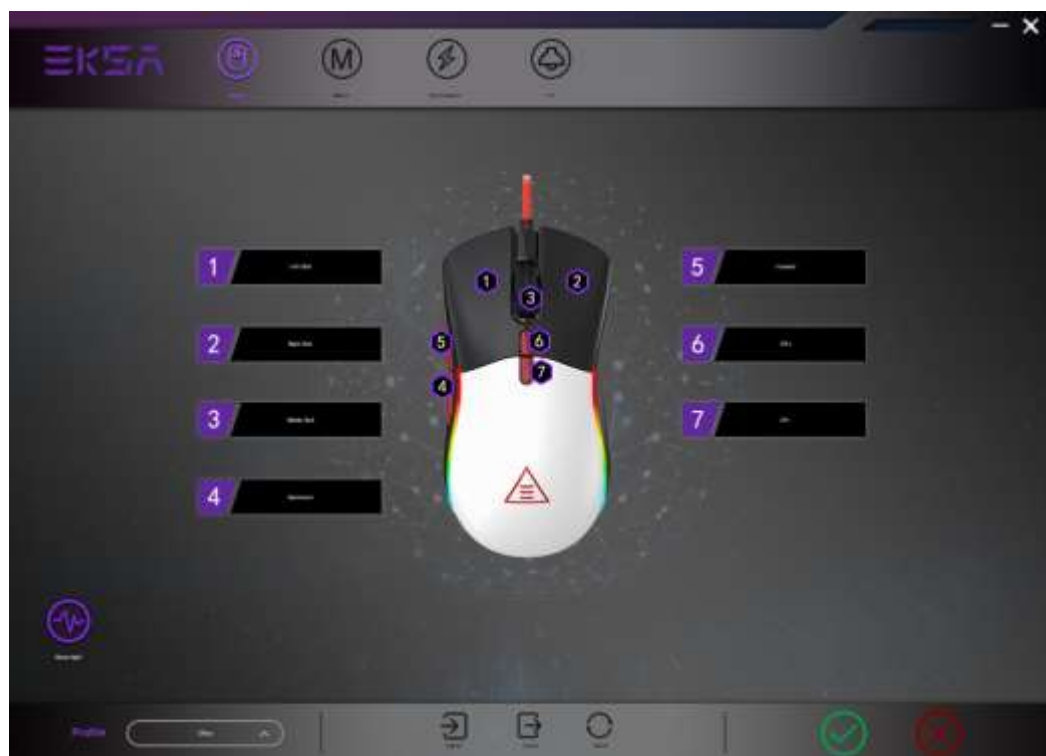
ESKA EM200



Share

Mouse Tales

This is a Great Mouse! It did everything I wanted, and much more, right out of the box!



eksa.net

I didn't want to
the software, but
I did look at it...

I didn't like, or use
the Logitech
software either...

Share

Mouse Tales

ESKA EM200 Mouse Summary

- Customizable Style White/Black
- 12,000 DPI Optical Sensor, w 6 adjustable settings
- RGB Backlit Lighting
- Tunable Weight System
- Ergonomic Design for Comfort
- Suitable for left or right hands

Great Value

\$16.99

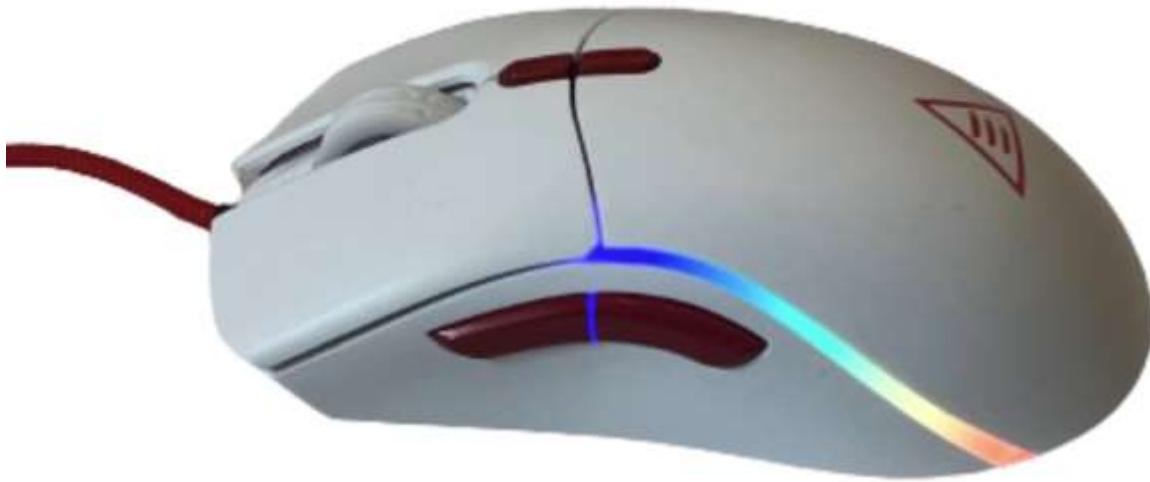
tinyurl.com/EskaEM200



Share

Mouse Tales

ESKA EM200 Mouse



Thank you...

Share

Printing web pages

The screenshot displays the Prudent Law website. The header includes the logo, navigation links (ABOUT US, LITIGATION, REAL ESTATE, IMMIGRATION, CORPORATE LAW, BLOG, CONTACT US), and a 'Free Consultation' button. The main content area features a blog post titled 'Probating Wills in Ontario - Everything You Need to Know' dated August 24, 2022, under the 'Litigation' category. The post text discusses the importance of probate for 55% of Canadians and explains the process. A 'Request a Consultation' form is overlaid on the right, with fields for Name, Email, Phone, and Message, and a 'Send' button. Below the form is a 4.8-star Google review rating.

PRUDENT LAW
BANKRUPTCY • LITIGATION • REAL ESTATE

ABOUT US LITIGATION REAL ESTATE IMMIGRATION CORPORATE LAW BLOG CONTACT US Free Consultation

Probating Wills in Ontario - Everything You Need to Know

August 24, 2022 Litigation

Seeing as 55% of Canadian's have a will, you may be responsible for a loved one's will at some point. If that point is now and you are the executor of a will in Ontario, then you will need to probate the will. This process can be complex and emotional, so it is important to understand what is involved.

In this blog post, we will explain how much it costs to probate a will in Ontario, how long you have to do so, and the steps you will need to take. Read on to learn more.

What does it mean to probate a will in Ontario?

Probate is the legal process of proving that a will is valid. In Ontario, Canada, you must probate a will if the deceased person owned property in the province at the time of their death. This includes real estate, personal property, and financial assets such as bank accounts and investments. Probate also allows for the appointment of an executor, who is responsible for carrying out the instructions in the will. The executor manages the deceased person's estate and ensures that their debts are paid and their assets are distributed according to the terms of the will.

There are two types of probate in Ontario: **voluntary** and **mandatory**. Voluntary probate is when all interested parties agree that the will is valid. This can be done without going to

Request a Consultation

Call or fill out the form and our team will get back to you as soon as the same day with all the documents required.

Name

Email Phone

Message

Send

4.8 ★★★★★ G

Web page looks like this

Stephane Richard

Share

Printing to *Microsoft Print to PDF*

AB	LIT	RE	IM	COR	B	CO
O	IG	AL	MI	POR	L	NT
UT	AT	ES	GR	ATE	O	AC
US	IO	TA	ATI	LAW	G	T
	N	TE	ON			US

Free Consultation

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AB	LIT	RE	IM	COR	B	CO
O	IG	AL	MI	POR	L	NT
UT	AT	ES	GR	ATE	O	AC
US	IO	TA	ATI	LAW	G	T
	N	TE	ON			US

Free Consultation

...more charges to probate a will in Ontario depend on the size and complexity of the estate. For example, an estate with multiple properties or beneficiaries may be more complex than one with only a few assets. Lawyers typically charge an hourly rate for their services, which can range from \$150 to \$500 per hour. They may also charge a flat fee or a percentage of the value of the estate.

In addition to lawyer's fees, there are also court fees that must be paid when you apply for probate. These fees are set by the government and are currently \$155 for the application fee and \$100 for the certificate of appointment of estate trustee (executor) fee.

You may also have to pay other professional fees, such as appraisers or accountants if they are needed to value the estate or prepare tax returns.

Finally, you will also have to pay any debts of the estate before distributing the assets to the beneficiaries. This includes things like credit card debts, mortgages, and taxes owed.

Final thoughts on probating a will in Ontario

Probating a will in Ontario can be a complex and costly process. It is important to understand

Additional stuff that clutters the page

Or worse — is over the text of the page

Share

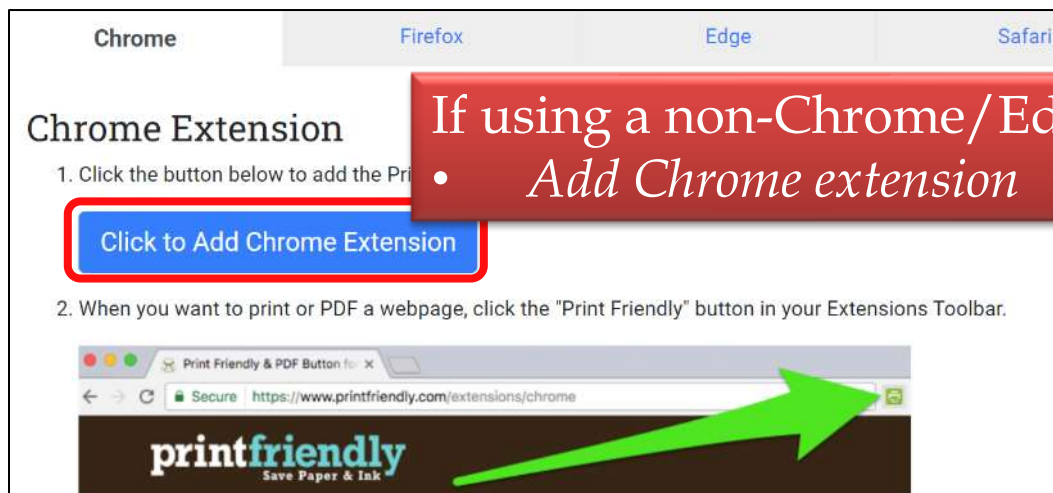
Print Friendly & PDF

<https://www.printfriendly.com/>



Available for Firefox, Safari, & Chromium-based browsers

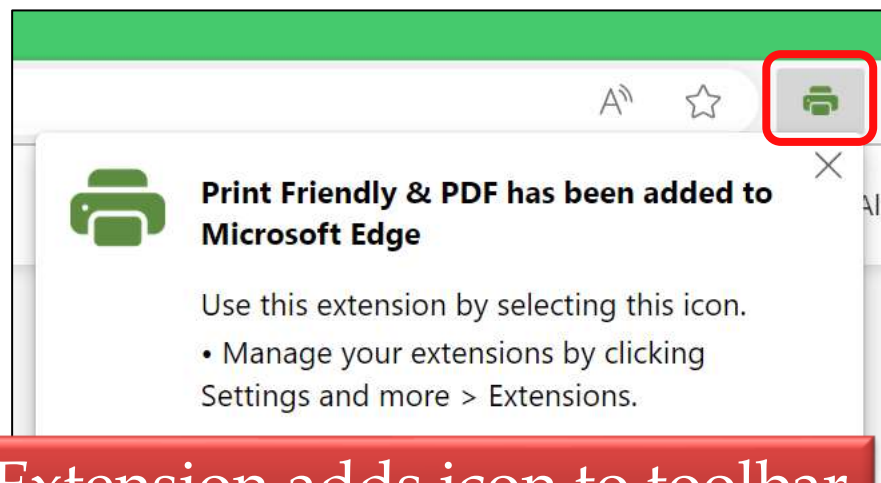
- Chrome, Edge, Brave, etc.
- go to site using the browser you want extension added to



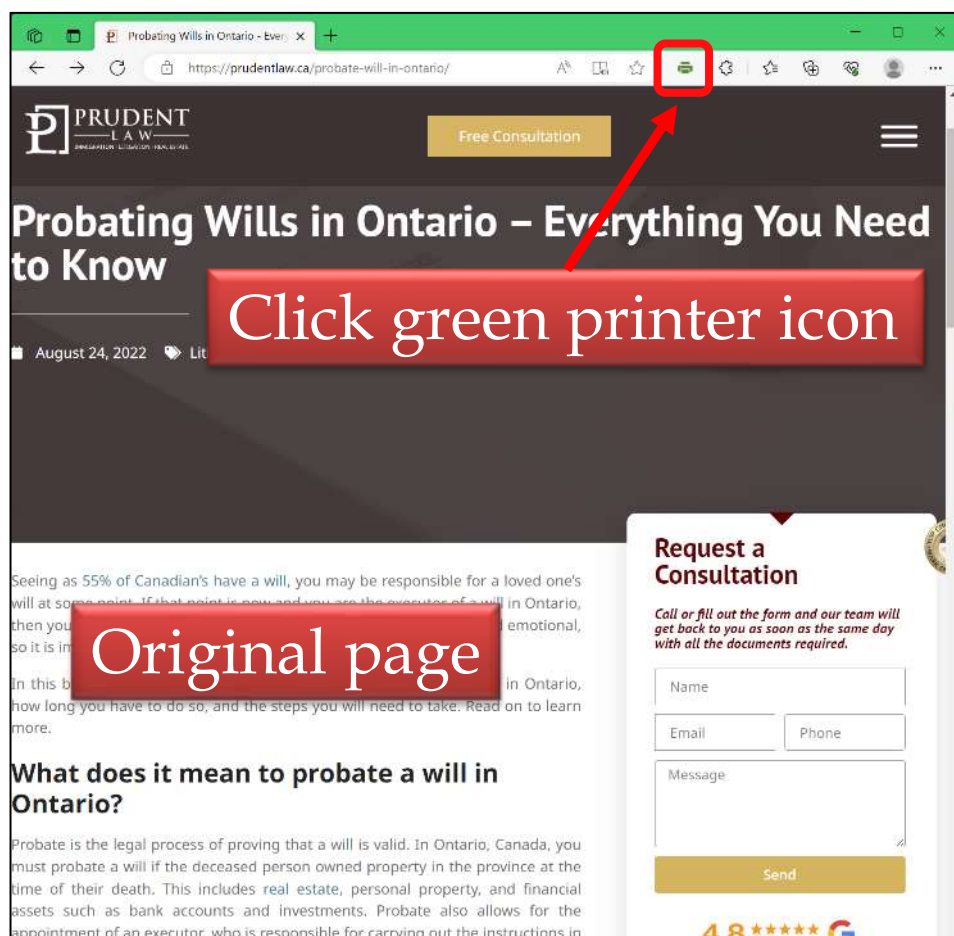
If using a non-Chrome/Edge, chromium-based browser, choose

- *Add Chrome extension*

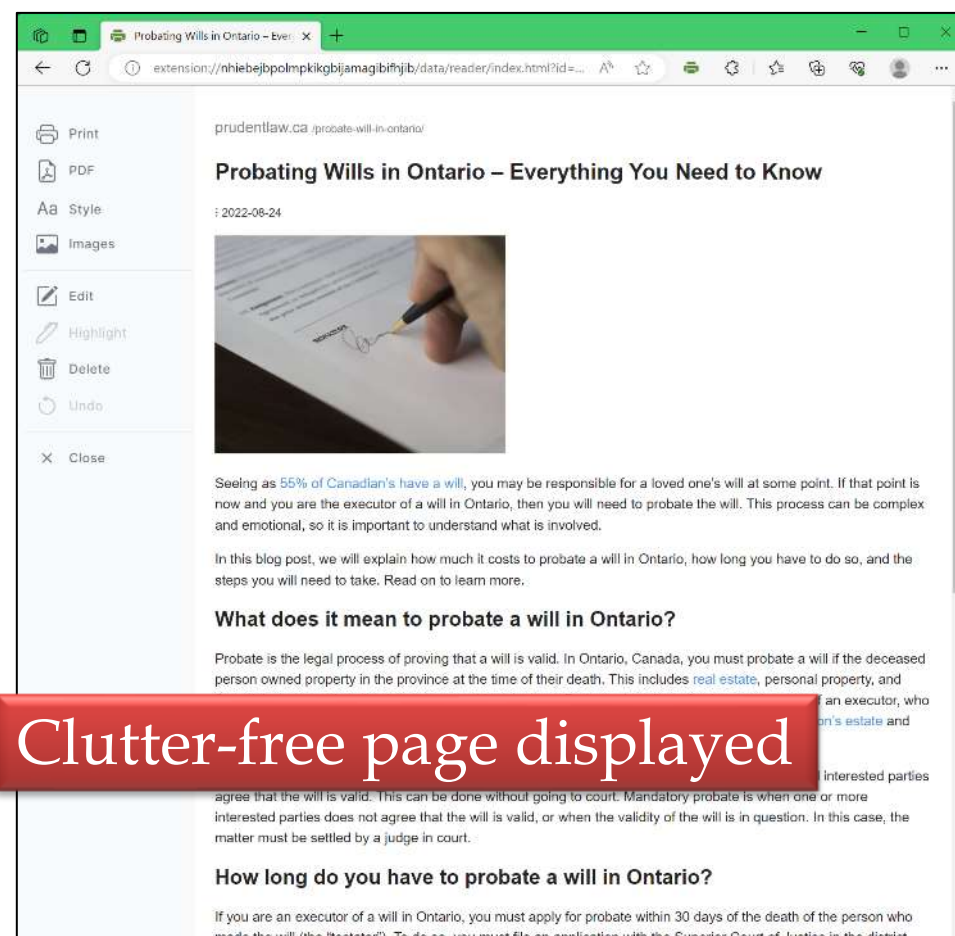
Share



Extension adds icon to toolbar



Click green printer icon



Clutter-free page displayed

Share

Click icon to cancel

Print page as you see it

Create PDF of page as you see it

- created on web: can download
- can always *Print to PDF*

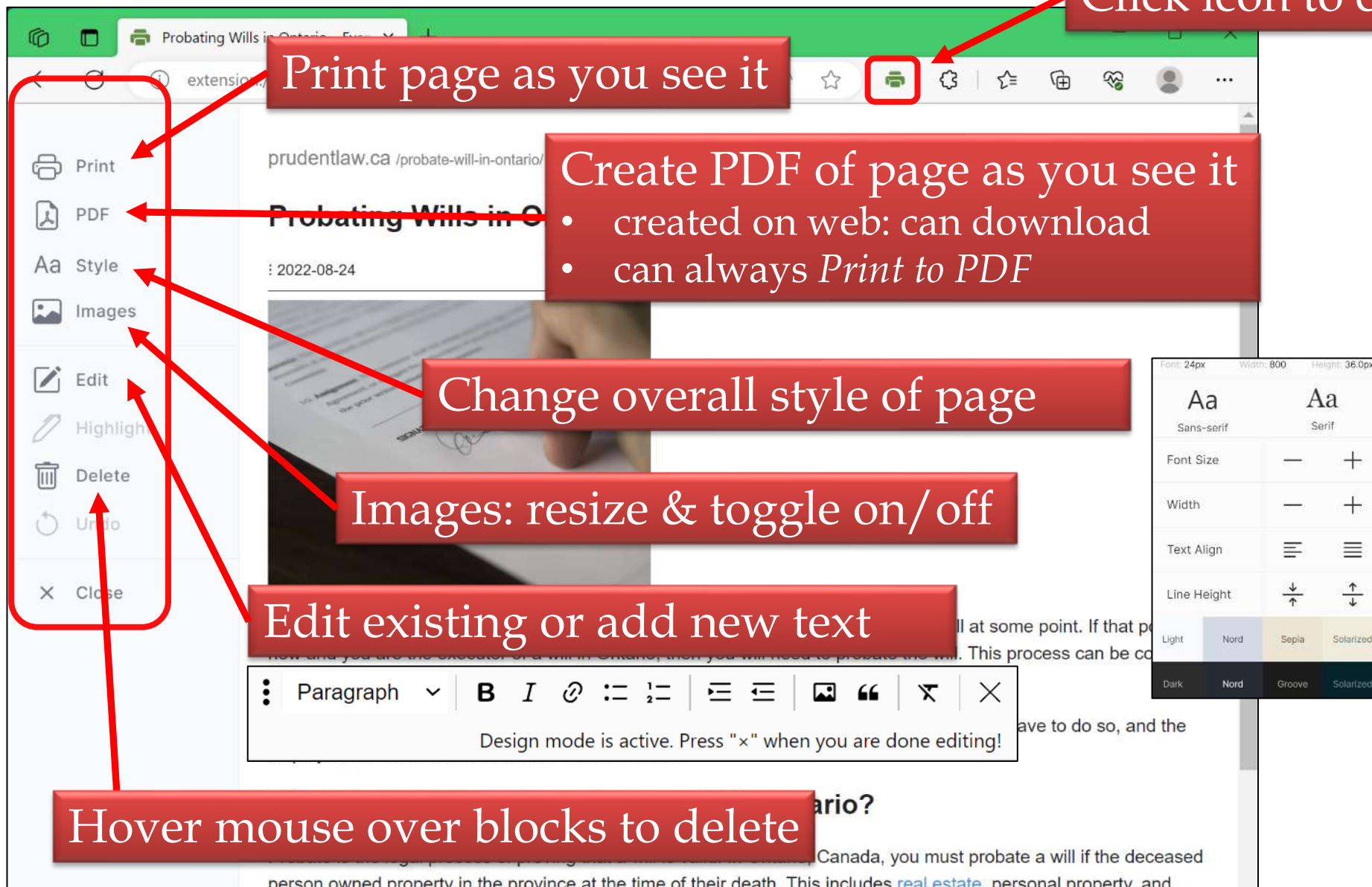
- ## Create PDF of page as you see it
- created on web: can download
 - can always *Print to PDF*

Change overall style of page

Images: resize & toggle on/off

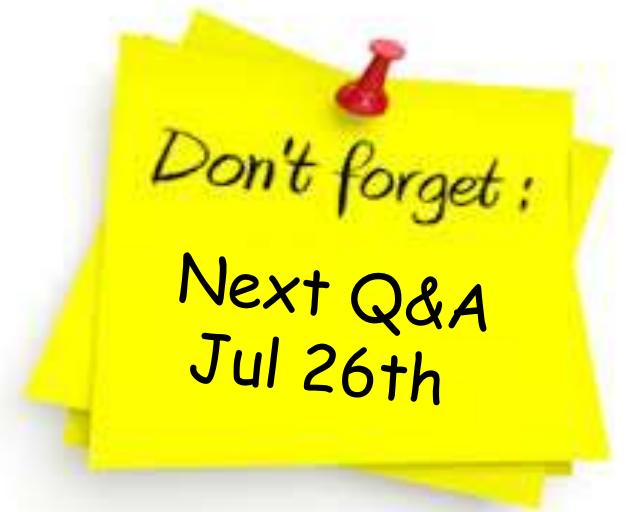
Edit existing or add new text

Hover mouse over blocks to delete





**Any other:
Questions
Comments
Shares?**



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

SuggestionBox@opcug.ca