

Build a Secure Cyberspace 2023 –

“Protect Your Online Identity” Seminar

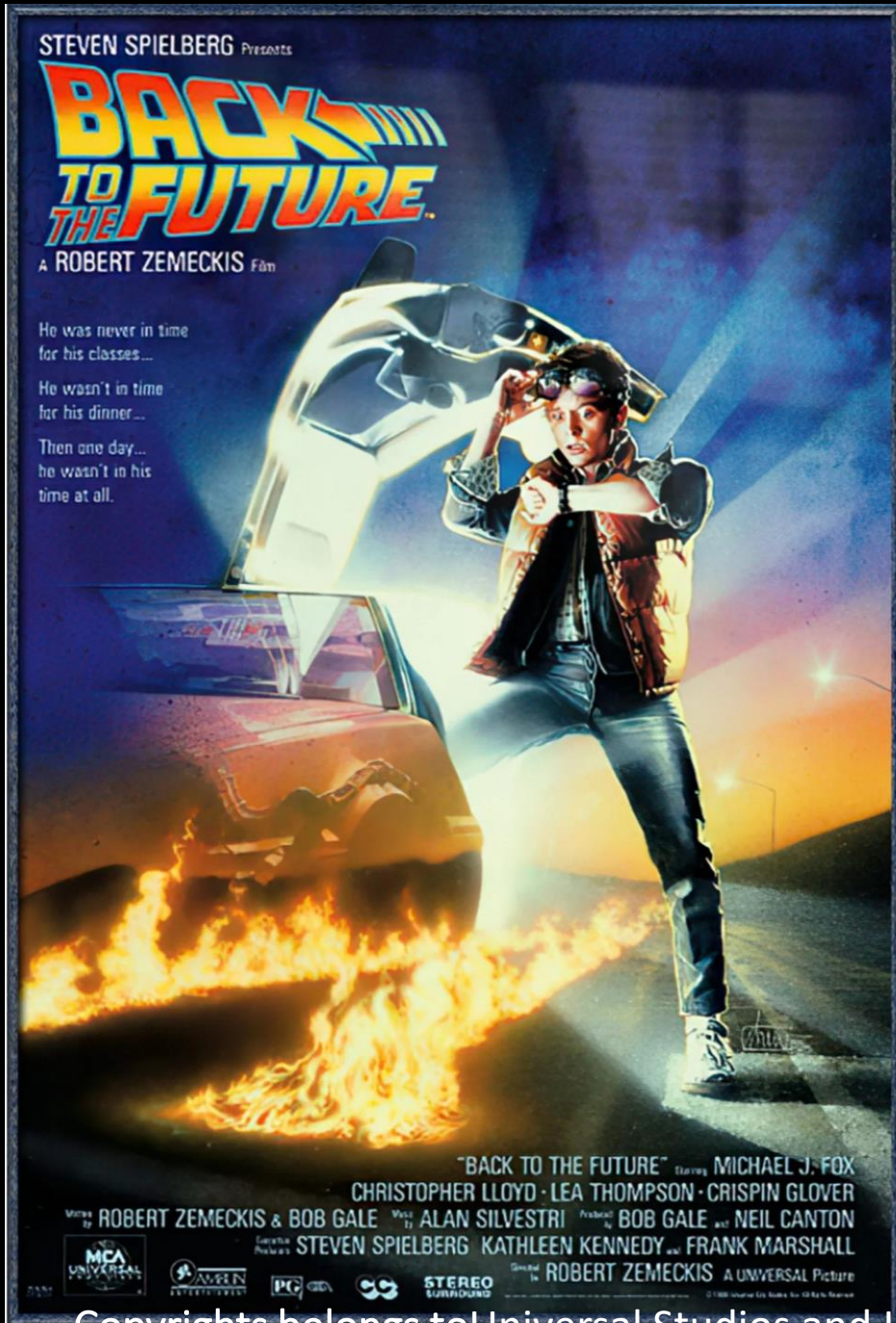
在分享前刪除元數據的理由及方法  
Why and how to remove meta  
data before sharing?



Antony Ma

Exco WTIA, CTO Hoplite Tech

22 Sept 2023



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31 3047 2776



Weight and Dimensions		Volume		Height	
Net weight	Gross weight	Length	Width	Height	Height
kg	kg	cm	cm	cm	cm

**4 Full description of contents**  
Give content and quantity

**5 Non-Document Shipments Only (Customs Requirement)**  
Attach the original and two copies of a Proforma or Commercial Invoice

Shipper's VAT/GST number	Receiver's VAT/GST or Shipper's EIN/SSN
Declared Value for Customs (as on commercial/proforma invoice)	Harmonized Community Code if relevant
Destination (Country/State/Territory)	TYPE OF EXPORT
<input type="checkbox"/> Receiver <input type="checkbox"/> Shipper <input type="checkbox"/> Other	<input type="checkbox"/> Permanent <input type="checkbox"/> Non-Return <input type="checkbox"/> Temporary

**6 Shipment & insurance (insurance required)**

**7 Insurance & Services**

Insured  Not Insured

Signature required  Signature not required

Delivery  Return to sender

Insured  Not Insured

Signature required  Signature not required

**DIMENSIONAL/CHARGEABLE WEIGHT**

kg	kg
CHARGES SERVICES	
Other	
Insurance	
VAT	
CURRENCY	LOCAL

**8 ADDITIONAL DETAILS (check one)**

Fragile

Hazardous

Other

**3 To (Receiver)**  
Phone, Fax or E-mail (required)

Delivery address (DHL cannot deliver to a PO Box)

Postcode/Zip Code (required)

Contact person  
Country  
Phone, Fax or E-mail (required)

FLUORINTE  
 FLUORINTE BUSINESS  
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Original copy

# missing

## Missing

2023 | 13+ | 1h 50m | Thrillers

When June's mother and her new boyfriend don't return from a trip to Colombia, the tech-savvy teenager undertakes her own online investigation.



Examples are in these movie

# Open-source intelligence (OSINT)

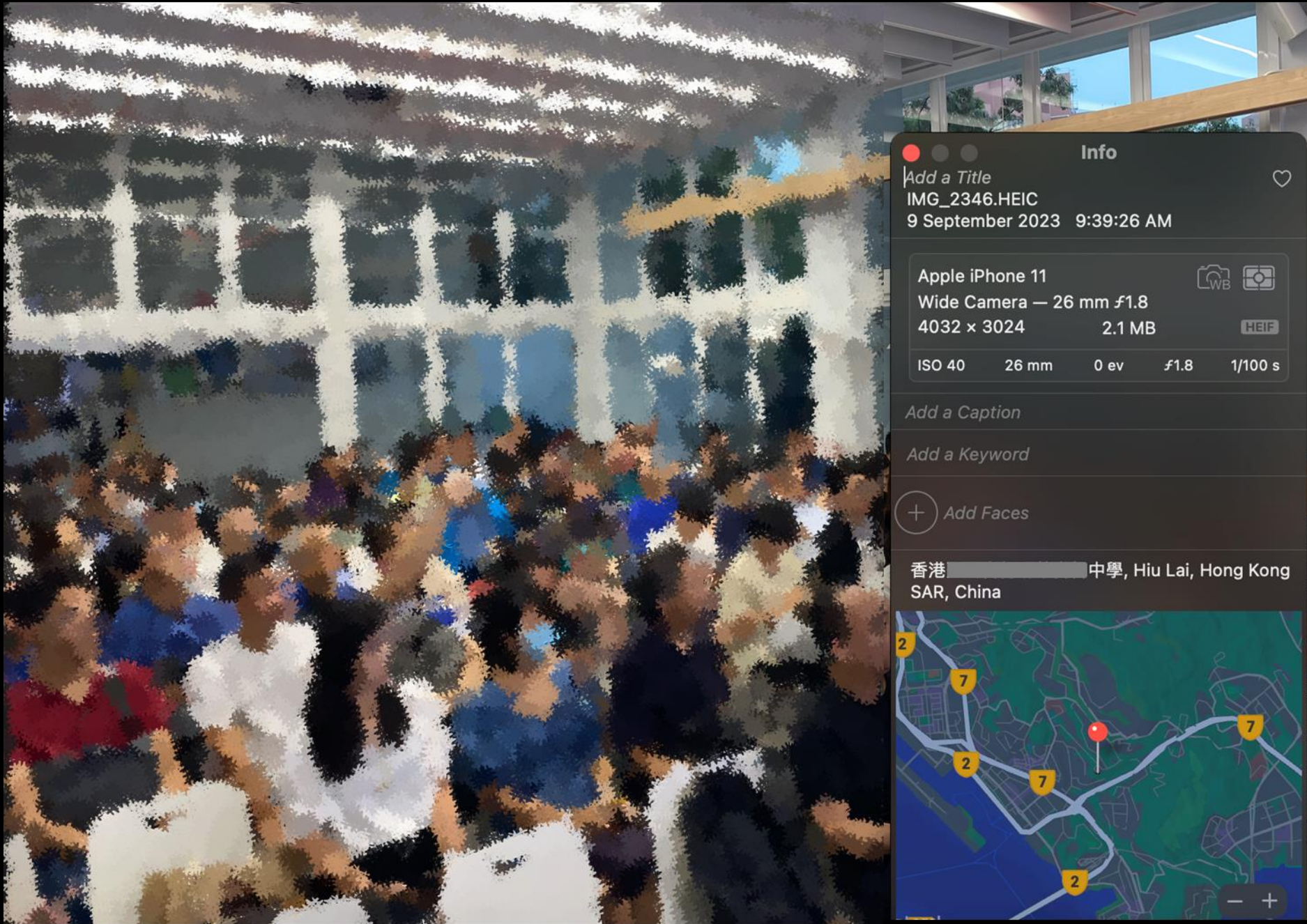
*is the collection and analysis of data gathered from open sources (covert sources and publicly available information) to produce actionable intelligence.*

# Why is Metadata created ?

- Machine Processing, automating tasks
  - Classifications
  - Routing
- Debugging
- Statistical
  - Date Time
- Copyright



Does using  
metadata require  
consent?



**Info**

Add a Title ♡  
IMG\_2346.HEIC  
9 September 2023 9:39:26 AM

Apple iPhone 11 WB HEIF  
Wide Camera — 26 mm f1.8  
4032 x 3024 2.1 MB

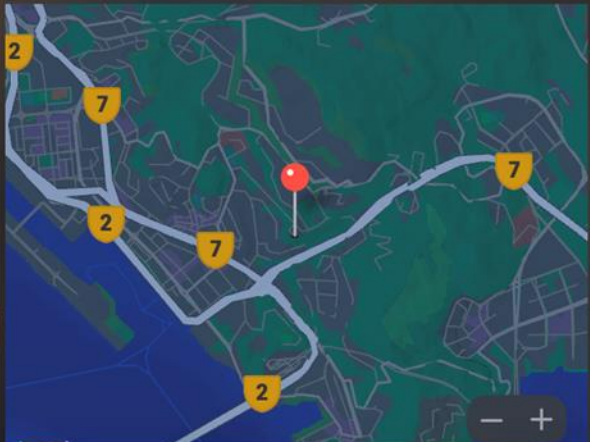
ISO 40 26 mm 0 ev f1.8 1/100 s

Add a Caption

Add a Keyword

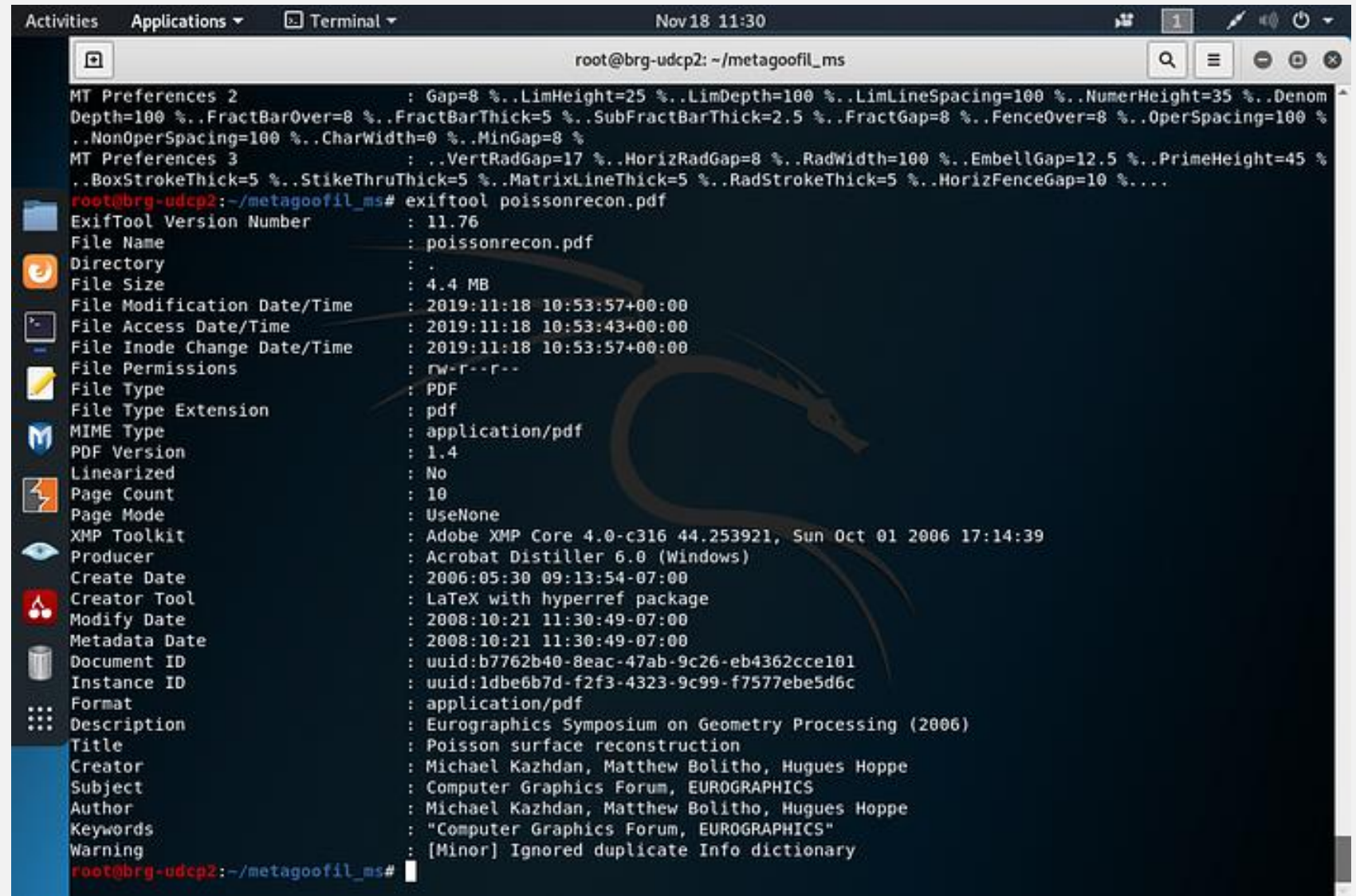
+ Add Faces

香港 中學, Hiu Lai, Hong Kong SAR, China



# ExifTool

sudo apt-get install metagoofil



```
MT Preferences 2 : Gap=8 %..LimHeight=25 %..LimDepth=100 %..LimLineSpacing=100 %..NumerHeight=35 %..Denom
Depth=100 %..FractBarOver=8 %..FractBarThick=5 %..SubFractBarThick=2.5 %..FractGap=8 %..FenceOver=8 %..OperSpacing=100 %
..NonOperSpacing=100 %..CharWidth=0 %..MinGap=8 %
MT Preferences 3 : ..VertRadGap=17 %..HorizRadGap=8 %..RadWidth=100 %..EmbellGap=12.5 %..PrimeHeight=45 %
..BoxStrokeThick=5 %..StikeThruThick=5 %..MatrixLineThick=5 %..RadStrokeThick=5 %..HorizFenceGap=10 %...
root@brg-udcp2:~/metagoofil_ms# exiftool poissonrecon.pdf
ExifTool Version Number : 11.76
File Name : poissonrecon.pdf
Directory : .
File Size : 4.4 MB
File Modification Date/Time : 2019:11:18 10:53:57+00:00
File Access Date/Time : 2019:11:18 10:53:43+00:00
File Inode Change Date/Time : 2019:11:18 10:53:57+00:00
File Permissions : rw-r--r--
File Type : PDF
File Type Extension : pdf
MIME Type : application/pdf
PDF Version : 1.4
Linearized : No
Page Count : 10
Page Mode : UseNone
XMP Toolkit : Adobe XMP Core 4.0-c316 44.253921, Sun Oct 01 2006 17:14:39
Producer : Acrobat Distiller 6.0 (Windows)
Create Date : 2006:05:30 09:13:54-07:00
Creator Tool : LaTeX with hyperref package
Modify Date : 2008:10:21 11:30:49-07:00
Metadata Date : 2008:10:21 11:30:49-07:00
Document ID : uuid:b7762b40-8eac-47ab-9c26-eb4362ccea101
Instance ID : uuid:1dbe6b7d-f2f3-4323-9c99-f7577ebe5d6c
Format : application/pdf
Description : Eurographics Symposium on Geometry Processing (2006)
Title : Poisson surface reconstruction
Creator : Michael Kazhdan, Matthew Bolitho, Hugues Hoppe
Subject : Computer Graphics Forum, EUROGRAPHICS
Author : Michael Kazhdan, Matthew Bolitho, Hugues Hoppe
Keywords : "Computer Graphics Forum, EUROGRAPHICS"
Warning : [Minor] Ignored duplicate Info dictionary
root@brg-udcp2:~/metagoofil_ms#
```

[OSINT Metadata Collecting for Reconnaissance | by Miguel Sampaio da Veiga | Hacker Toolbelt | Medium](#)



# PDF File Meta Data

## Document Properties

Description

Security

Fonts

Initial View

Custom

Advanced

### Description

File: AP Lens user guide Win10 n Mac.pdf

Title: AP Lens user guide v2 antony

Author: Hoplite Tech

Subject:

Keywords:

Created: 10/11/22, 6:00:36 PM

Modified: 10/11/22, 6:00:36 PM

Application: PowerPoint

Additional Metadata...

### Advanced

PDF Producer: macOS Version 13.0 (Build 22A380) Quartz PDFContext

PDF Version: 1.4 (Acrobat 5.x)

Location: /Users/anma/Downloads/

File Size: 1.98 MB (2,078,244 Bytes)

Page Size: 11.69 x 8.26 in

Number of Pages: 11

Tagged PDF: No

Fast Web View: No

AP Lens user guide Win10 n Mac.pdf

Description

Advanced

Advanced

✖ XMP Core Properties

xmp:CreatorTool: PowerPoint

✖ PDF Properties

pdf:Producer: macOS Version 13.0 (Build 22A380) Quartz PDFContext

✖ Dublin Core Properties

✖ dc:creator (seq container)

[1]: Hoplite Tech

✖ dc:title (alt container)

[x-default]: AP Lens user guide v2 antony

xmp

Replace...

Append...

Save...

Delete

Cancel

OK

Help

Cancel

OK



# Next step, find your answer

**ChatGPT Prompt to ask for next step :**

**for a general phone user, list the steps and tools for removing photo metadata with an objectives on protect data privacy**

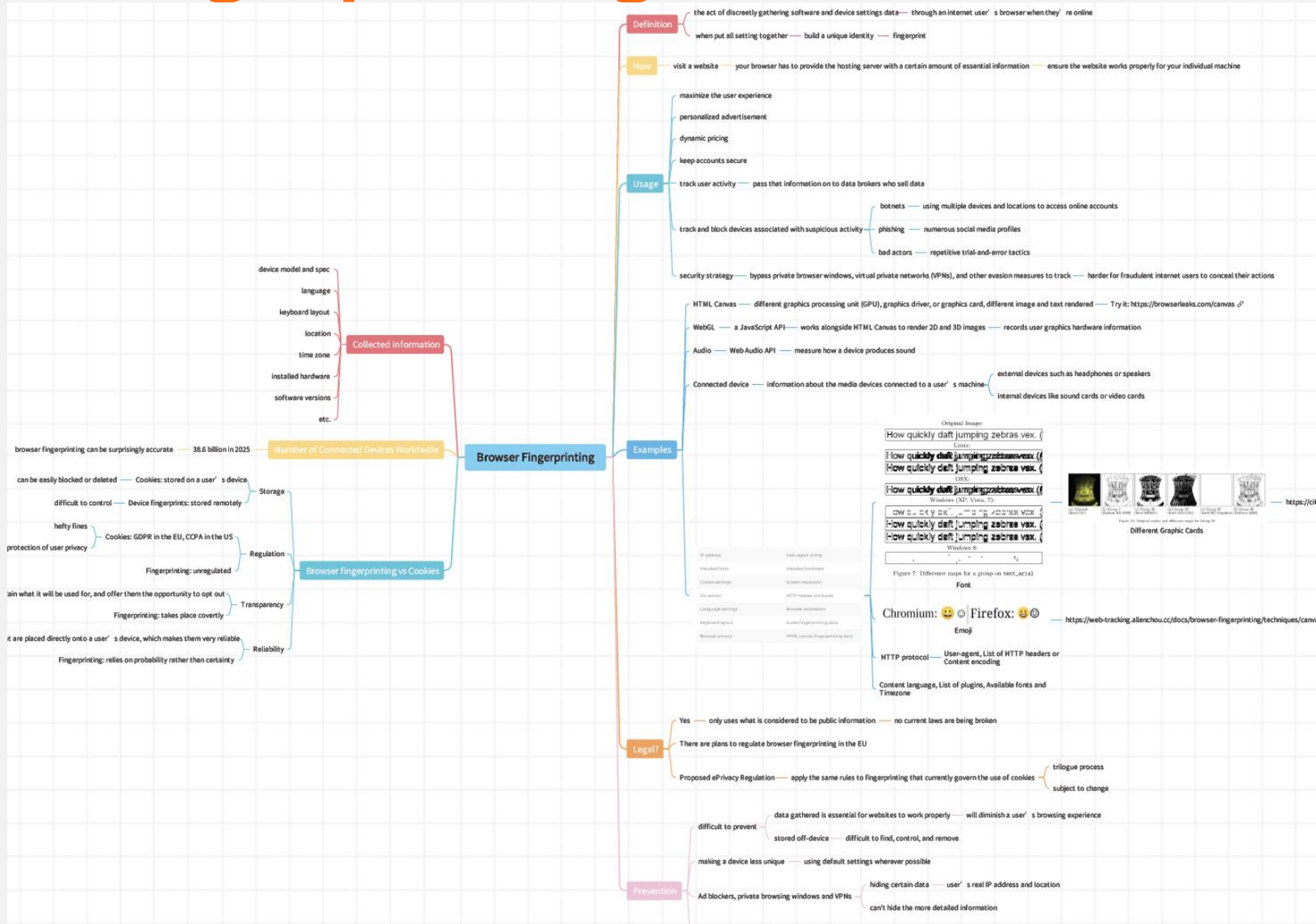


# Behavior (Dynamic) Meta Data

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# Browser Fingerprinting



## Definition

the act of discreetly gathering software and device settings data — through an internet user's browser when they're online

when put all setting together — build a unique identity — fingerprint

## How

visit a website — your browser has to provide the hosting server with a certain amount of essential information — ensure the website works properly

## Usage

maximize the user experience

personalized advertisement

dynamic pricing

keep accounts secure

track user activity — pass that information on to data brokers who sell data

track and block devices associated with suspicious activity

botnets — using multiple devices and locations to access online accounts

phishing — numerous social media profiles

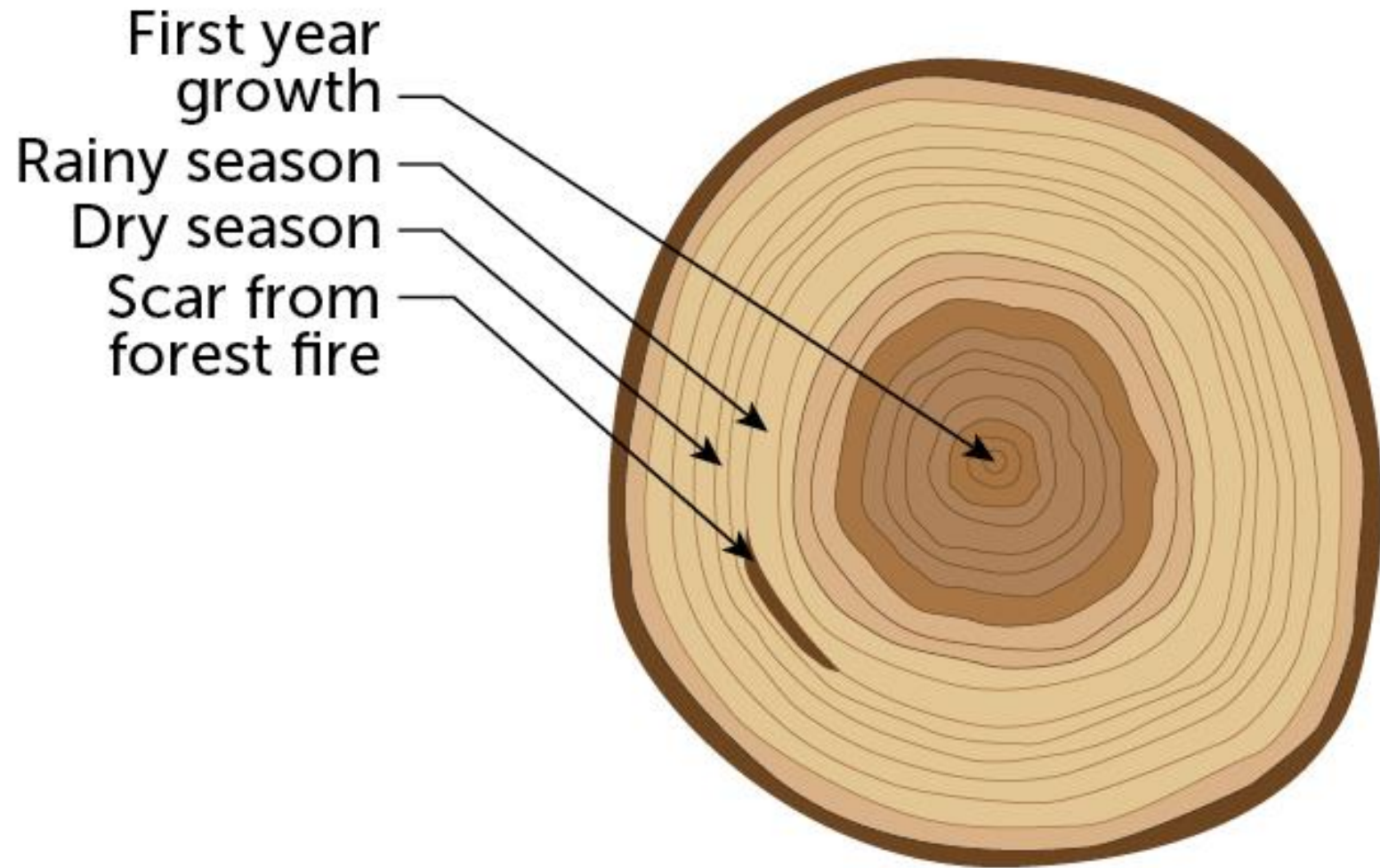
bad actors — repetitive trial-and-error tactics

# Next step, find your answer

ChatGPT Prompt to ask for next step :

*Explain Browser Fingerprinting to a primary school student with basic knowledge of internet. Focus on data privacy protection and its implications. Provide some examples with storytelling*

# Privacy risk are accumulated





# Keep Updated

Linkedin Profile

Cybersecurity Hub

AI and Text Search Blog

<https://www.linkedin.com/in/antonyma/>

<https://www.cybersechub.hk/>

<https://aipedals.substack.com>

The image shows a screenshot of a LinkedIn profile banner for Antony Ma. The banner features a circular profile picture of Antony Ma on the left. To the right of the profile picture, the text reads "AP Lens Remote Browser" with a robot icon, "The World 1st" with a shield icon containing a checkmark, and "Whitelist Protection SaaS". Below the banner, the profile name "Antony Ma, LLM, CCSP" is displayed, followed by the title "Cloud Computing Architect, Cybersecurity Blue Team Leader, Experienced Compliance & Audit Professional, Tech Blogger". The bio text says "Talks about #llms, #chatgpt, #generativeai, #cybersecurity, and #cyberinsurance". The location is "Hong Kong, Hong Kong SAR" and there is a "Contact info" link. At the bottom, it shows "1,440 followers · 500+ connections". On the right side of the profile, there are logos for "Hoplite Technology Ltd" and "The University of Hong Kong".

**Antony Ma, LLM, CCSP**  
Cloud Computing Architect, Cybersecurity Blue Team Leader,  
Experienced Compliance & Audit Professional, Tech Blogger

Talks about #llms, #chatgpt, #generativeai, #cybersecurity, and #cyberinsurance

Hong Kong, Hong Kong SAR · [Contact info](#)

**1,440 followers · 500+ connections**

Hoplite Technology Ltd  
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# Thank you

