



# ONLINE SELF FINGERPRINTING 101

Between OSINT & OPSEC – Tips & Tricks



# Whoami ?

- Former ENSIBS (Graduated 2019)
- Cybersecurity Consultant / Pentester (Rennes, FR)
- Interested in :
  - *Offensive Security (Active Directory, Phishings..)*
  - *OSINT related topics*
- Twitter : Haax9\_
- Discord : Haax#2683
- Posts :
  - *haax.fr*
  - *cheatsheet.haax.fr*



# What ?

- OSINT = Open Source Intelligence
  - *Online publicly available information*
- OPSEC = Operations Security
  - *Process that identifies risks and information about [insert entity] if these informations are collected by the ennemy intelligence*
- Online Self Fingerprinting
  - *All data that can lead to your real identity or give information about you*
  - *Your « online presence »*

# Why ?

- To control what is publicly available about you
  - *And to choose what*
- To prevent data leaks and clean some old data
- To limit your online presence and to avoid as much as possible being tracked
- To protect yourself or people around you

# How ?

- Identify and gather
- Verify information
- Delete or update what you can
- In-depth research
- PS C:> Invoke-GDPR
- De-indexing the world !
- Bonus : picture filtering
- And what now ?
  
- Disclaimer : I'm clearly not expert here. Just giving some tips and methods that everyone can apply

# Identify and gather

- List online assets where you have accounts
  - *Start by writing down everything you can*
- Remember your old e-mail addresses ? 😊
  - *They can be usefull !*
  - *Take them back (before really deleting it)*
  - *And search through your 2k e-mails...*
- You can't get all your accounts in oneshot
  - *So, keep your list and everytime you remember something, append !*

# Identify and gather

Service				
Airbnb				
Backmarket				
Compte Google				
Discord				
Fnac				
Frandroid				

# Verify information

- Take these accounts back and look settings
  - *What's your username ?*
  - *Your public name ?*
  - *Does it have more infos (birth, address...) ?*
  - *Does it have MORE infos (credit card, official documents) ?*
- Report it to your list
  - *You can choose what data matter to you !*





Delete or update what you can



# Delete or update what you can

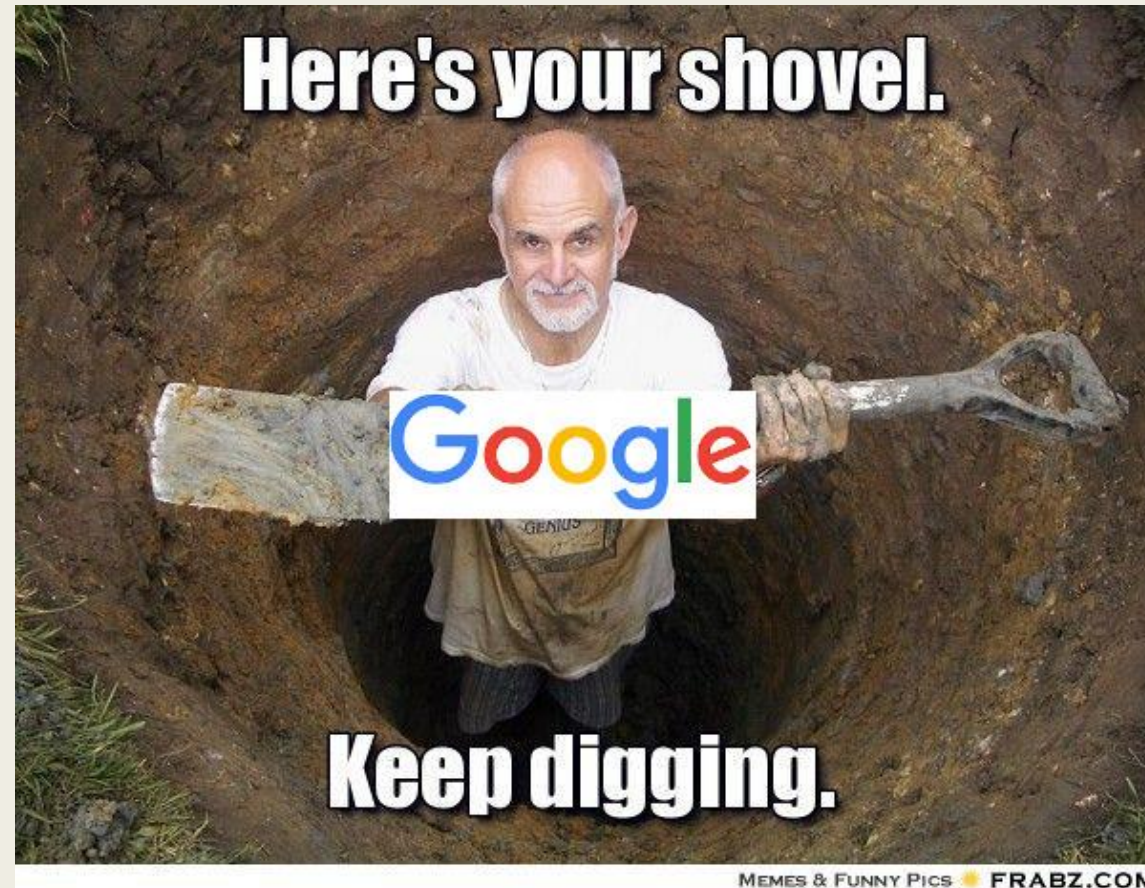
- First thing first, do you want to keep this account ?
  - *No ? Delete it*
- Are these data necessary ?
  - *If no, you can also delete*
- The service X needs some kind of personal data to work ?
  - *Is it official ?*
  - *If no, just set up fake ones (or online dedicated ones)*
- Once again, you can choose what you want to keep online

# #SocialNetworkEdition

- Social Network are a big part, and an important one
- For each one :
  - *Check your settings (what data you gave and privacy settings)*
  - *Browse your entire profile, back to the past*
  - *You can delete all the old stuff you don't want anymore*
  - *Old tweets, old facebook pictures, etc.*



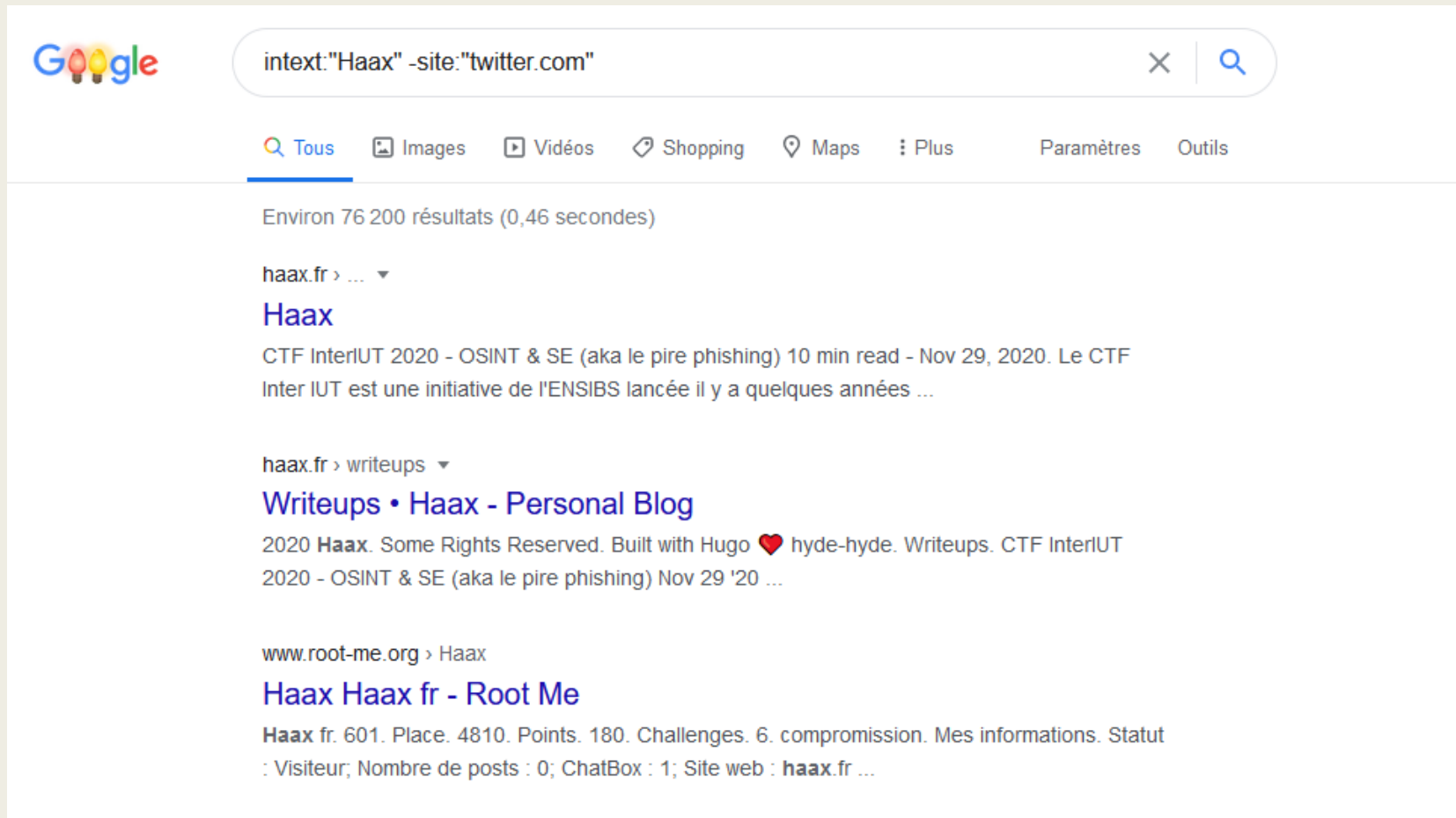
# In-depth research



# In-depth research

- You want to know **everything** that has been indexed about you
- You can search for pseudo, real name, e-mail address
  - *Photos too*
- One tool to rule them all : DORKS
  - « *Haax* »
  - *Intext:«Haax* »
  - *Filtering site using -site:*
  - ...

# In-depth research



The image shows a Google search interface. The search bar contains the query "intext:Haax" -site:"twitter.com". Below the search bar, there are navigation links for "Tous", "Images", "Vidéos", "Shopping", "Maps", "Plus", "Paramètres", and "Outils". The search results show approximately 76,200 results in 0.46 seconds. The first result is from haax.fr, titled "Haax", with a snippet about CTF InterIUT 2020. The second result is also from haax.fr, titled "Writeups • Haax - Personal Blog", with a snippet about Hugo Hyde-Hyde. The third result is from www.root-me.org, titled "Haax Haax fr - Root Me", with a snippet about the website's statistics.

Google

intext:"Haax" -site:"twitter.com" X | 🔍

Tous Images Vidéos Shopping Maps Plus Paramètres Outils

Environ 76 200 résultats (0,46 secondes)

haax.fr > ... ▾

**Haax**

CTF InterIUT 2020 - OSINT & SE (aka le pire phishing) 10 min read - Nov 29, 2020. Le CTF Inter IUT est une initiative de l'ENSIBS lancée il y a quelques années ...

haax.fr > writeups ▾

**Writeups • Haax - Personal Blog**

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www.root-me.org > Haax

**Haax Haax fr - Root Me**

**Haax** fr. 601. Place. 4810. Points. 180. Challenges. 6. compromission. Mes informations. Statut : Visiteur; Nombre de posts : 0; ChatBox : 1; Site web : **haax**.fr ...

# In-depth research

- Loop and search several times, for each identity, old pseudos etc.
- Depending on your online activity, you can collect TONS of data
- Store them all ! You can use them for :
  - *Gather other accounts you forgot ;*
  - *Collect old links or pages mentioning you (to delete them later) ;*
  - *Map your online fingerprint*



# PS C:> Invoke-GDPR



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- In some (many) cases, you won't have a golden button allowing you to delete your own account
  - *GDPR to the rescue !*
  - *You'll need to contact the service and ask for deletion*
- You will also need :
  - *Patience*
  - *Time*
- Be ready to start for few weeks of e-mails ping pong

# De-indexing the world !



# De-indexing the world !






- Now that you have
  - *Collected all (or many) data and links to you*
  - *Stored them in your little list*
- The magical tool : « Remove Outdated Content »
  - *Even if accounts and posts might be removed, they remain in the Google Cache*
  - *But you can force (well, ask) Google to remove it*



# De-indexing the world !

Google Search Console

### Demands de suppression

 PAGE	<b>https://forum</b> [redacted]
État : <b>Approuvée</b> ⓘ	Date de la demande : 2 nov. 2020 <a href="#">Annuler</a>
 PAGE	<b>https://forum</b> [redacted]
État : <b>Expirée</b> ⓘ	Date de la demande : 2 nov. 2020
 PAGE	<b>https://[redacted].eu/</b>
État : <b>Approuvée</b> ⓘ	Date de la demande : 1 nov. 2020 <a href="#">Annuler</a>
 PAGE	<b>https://www.ph</b> [redacted]
État : <b>Expirée</b> ⓘ	Date de la demande : 27 oct. 2020
 PAGE	<b>https://m.j</b> [redacted]
État : <b>Approuvée</b> ⓘ	Date de la demande : 19 août 2020 <a href="#">Annuler</a>

# Bonus : picture filtering

- Pictures are an important part
  - *Good to (try to) know where your face appears*
  - *They can be used for tons of things*
  - *i.e: facial recognition, machine learning*
- You can add noise to your pictures !
  - *Fawkes tool : <https://sandlab.cs.uchicago.edu/fawkes/>*
  - *It can help protecting yourself*

# And what now ?

- Now that you spent dozens of hour trying to collect and remove content about yourself, what can you do ?
- Go deeper by learning how tracking works on Internet
  - *Partition your online browsing (by using profiles for example)*
  - *Setup a dedicated browser for different types of online behavior*
  - *Work on your password strategy*
  - *And so much more...*
- Try to improve your methodology and loop over it regularly

# To go further...

- Some resources there

- <https://cheatsheet.haax.fr/open-source-intelligence-osint/tools-and-methodology/opsec/>

- ShutUpTrackers

- <https://shutuptrackers.com/>