



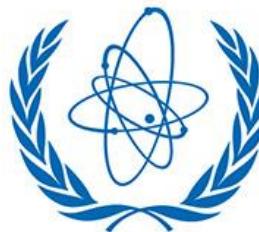
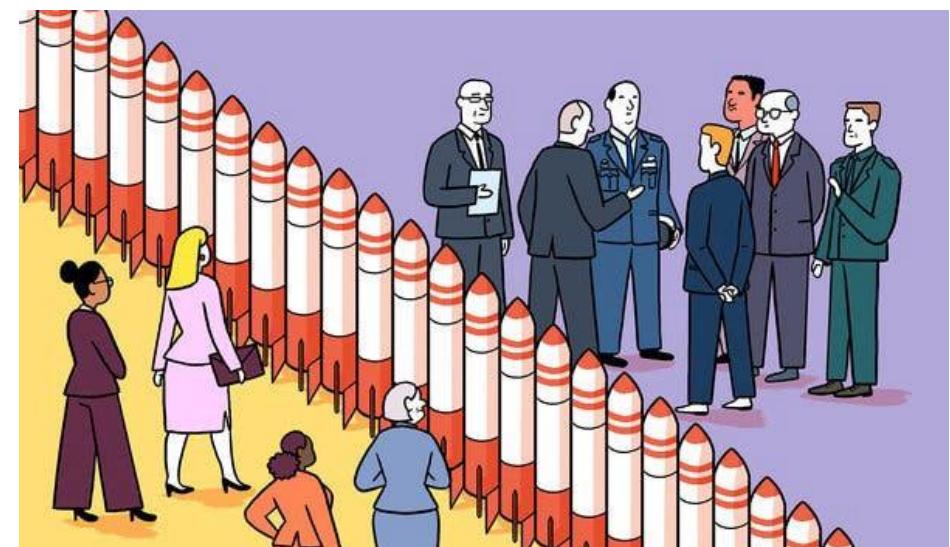
An Introduction to Open Source Intelligence (OSINT)

Adina Pintilie

About us

- ❖ Research consultancy that specialises in open source intelligence
- ❖ Currently undertaking risk consultancy research and analysis relating to nuclear non-proliferation, domestic and international security, public and private sector
- ❖ Our team brings together operation specialists and practitioners as well as academics

Who am I?



IAEA

International Atomic Energy Agency
Atoms for Peace and Development



European
Commission



GCNP

GENDER CHAMPIONS IN NUCLEAR POLICY

Outline

1. Introduction to **OSINT**: what it is, what it's not and where it's going.
2. Using **OSINT tools in academic research**: getting more out of your search engines, imagery and social media – a case study
3. **False friends, bigger questions and resources**

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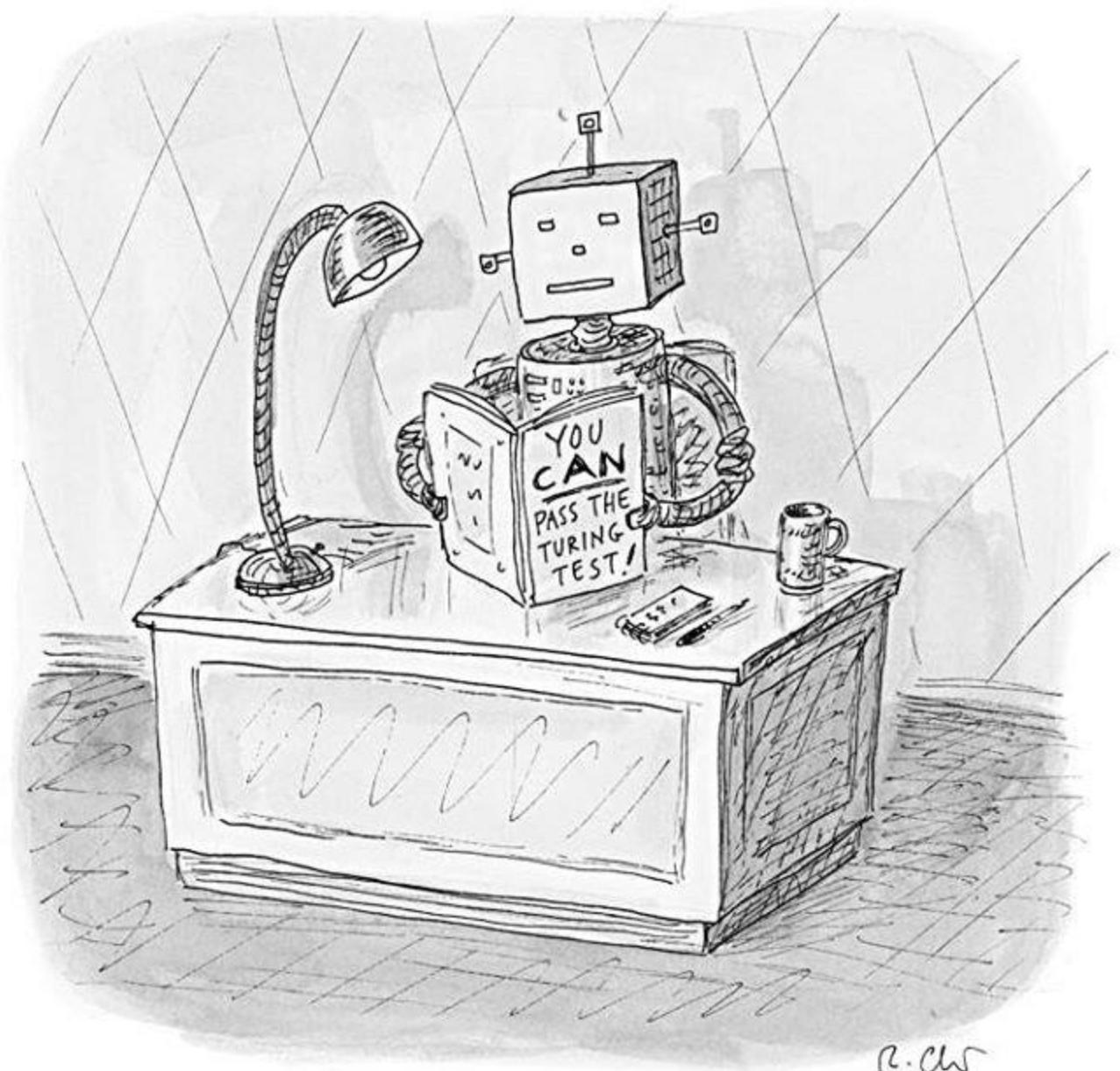
Conclusions

- ❖ **To know what is secret you must know what is openly available**
 - ❖ Information might be in unlikely places: Strava & Helmand Province, Afghanistan
- ❖ **Consistency of observation is critical to understanding and explaining**
 - ❖ Many more things can be observed than there are resources to do so
- ❖ **The million channel universe: one to many and many to many communication**
 - ❖ What do we know, what do they know? Contest for capability & the knowledge high ground
 - ❖ Impact on politics, diplomacy, law enforcement, the military & intelligence: lowering barriers
 - ❖ Old and new entities doing OSINT. Convergence of journalism, diplomatic reporting & OSINT

Conclusions

- ❖ What's next?

- ❖ Quantum computing and AI
- ❖ The evolving nature of privacy: rights to - and ownership of – information
- ❖ IoT
- ❖ Data literacy



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Search Engines and the Deep Web

- **Google:** 92% UK share, and 88% in USA
- **Yandex:** 42% share in Russia
- **Baidu:** 66% market share in China
- Each of these search engines can only access a small portion of the information available online.



Getting more from Google

Key principles for using search engines effectively

- **Incognito mode:** will prevent google from tailoring results based on previous searches.
- **Don't just use Google.** Use other search engines (e.g. Bing) and **country specific search engines**, e.g. Baidu in China, Yandex in Russia, Never in South Korea
- If you use Google, **don't just use google.com / google.co.uk.** Use country-specific domains - a list is available here https://en.wikipedia.org/wiki/List_of_Google_domains

Getting more from Google

Challenges of using search engines

- **Different spellings of words**, e.g. “ise” versus “ize” endings
- **Different names used**, e.g. Islamic State, ISIS, ISIL, IS, Islamic State of Iraq and Syria, Islamic State of Iraq and al-sham (al-sham)
- **Translation and transliteration issues**, e.g. when performing searches in multiple languages
- **Names**, e.g. individuals using different names/nicknames on different social media sites (e.g. Stephen Yaxley-Lennon-> Andrew McMaster, Paul Harris, Wayne King, Tommy Robinson)

Search Engines

Different spellings of names is a significant due diligence OSINT and record-keeping challenge

- Muammar Qaddafi
- Moammar Gaddafi
- Moammar Ghadhafi
- Muammar el-Qaddafi
- Moammar Kadafi
- Muammar Gaddafi
- Muamar AlQadafi
- Moammar El-Gadhafi
- Muamar Khadafy
- Qadhafi
- Al Gathafi
- Al-Gaddafi
- In fact there is a website giving the top 112 spellings of the name!

Getting more from Google

≡  Ⓜ x 🔍

bronić europy WSZYSTKO GRAFIKA WIADOMOŚCI MAPY FILMY ZAKUPY KSIAŻKI LOTY NARZĘDZIA WYSZUKIWANIA

TYLKO JĘZYK POLSKI KIEDYKOLWIEK WSZYSTKIE WYNIKI WYCZYŚĆ

GRAFIKA Wyświetl wszystkie



 <https://www.euractiv.pl/interview>

Hanna Hopko: Polska powinna bronić europejskich wartości – EURACTIV.pl

Państwa Europy Zachodniej mają swoje problemy, dlatego to idealny czas dla Polski, państw bałtyckich, Rumunii oraz krajów nordyckich na odważniejsze zabieranie głosu w obronie ...

 <https://www.m.pch24.pl/abp-mare...>

Abp Marek Jędraszewski: znowu nam trzeba bronić Polski i Europy - PCh24.pl - Prawa Strona Internetu. Informacje z życia Kościoła i prawicowa publicystyka

17 wrz 2019 - Jesteśmy w obliczu nowych wyzwań, trudności i zagrożeń. Nie tyle politycznych, co kulturowych. Znowu nam trzeba bronić Polski i Europy - powiedział metropolita krakowski abp Marek Jędraszewski w ...

Getting more from Google

Basic Boolean Operators

- “ ” searches for specific phrase
 - e.g. “*Extinction Rebellion*”
- **OR/AND** can show results for either of the phrases
 - e.g. “*University of Exeter*” **OR** UOE || “*Extinction Rebellion*” **AND** London
- **NOT** (also minus sign) excludes keywords from results
 - e.g. “*Extinction Rebellion*” -UK
- () combine with **OR** and “ ” for multiple search terms
 - e.g. (“*University of Exeter*” **OR** “UOE”) **AND** (“XR” **OR** ‘*Extinction Rebellion*’)
- * wildcard
 - e.g. *heat** would give *heat, heated, heating, heater* etc. (also good for dates)
- **Make use of Google Guide - <http://www.googleguide.com/>**

Getting more from Google

? GoogleGuide making searching even easier

(A printable [PDF version](#) is available.)

Basic Examples

This Search

[biking Italy](#)

[recycle steel OR iron](#)

["I have a dream"](#)

[salsa -dance](#)

[Louis "I" France](#)

[castle ~glossary](#)

[fortune-telling](#)

[define:imbroglio](#)

Finds Pages Containing...

the words **biking** and **Italy**

information on recycling steel or recycling iron

the exact phrase **I have a dream**

the word **salsa** but NOT the word **dance**

information about **Louis** the First (**I**), weeding out other kings of **France**

glossaries about **castles**, as well as **ictionaries**, lists of **terms**, **terminology**, etc.

all forms of the term, whether spelled as a single word, a phrase, or hyphenated

definitions of the word **imbroglio** from the Web

Calculator

Operators

[+ - * /](#)

[% of](#)

[^ or **](#)

[old units in new units](#)

Meaning

basic arithmetic

percentage of

raise to a power

convert units

Type Into Search Box (& Results)

[12 + 34 - 56 * 7 / 8](#)

[45% of 39](#)

[2^5 or 2**5](#)

[300 Euros in USD, 130 lbs in kg, or 31 in hex](#)

Restrict Search

Operators Meaning

[city1](#)

Book flights.

[city2](#)

Book flights.

[site:](#)

Search only one website or domain.

[#\[..\]#](#)

Search within a range of numbers.

[filetype:
\(or ext:\)](#)

Find documents of the specified type.

[link:](#)

Find linked pages, i.e., show pages that point to the URL.

Type Into Search Box (& Results)

[sfo bos](#)

(Book flights from San Francisco (SFO) to Boston (BOS).)

[Halloween site:www.census.gov](#)

(Search for information on Halloween gathered by the US Census Bureau.)

[Dave Barry pirate 2002..2006](#)

(Search for Dave Barry articles mentioning pirates written in these years.)

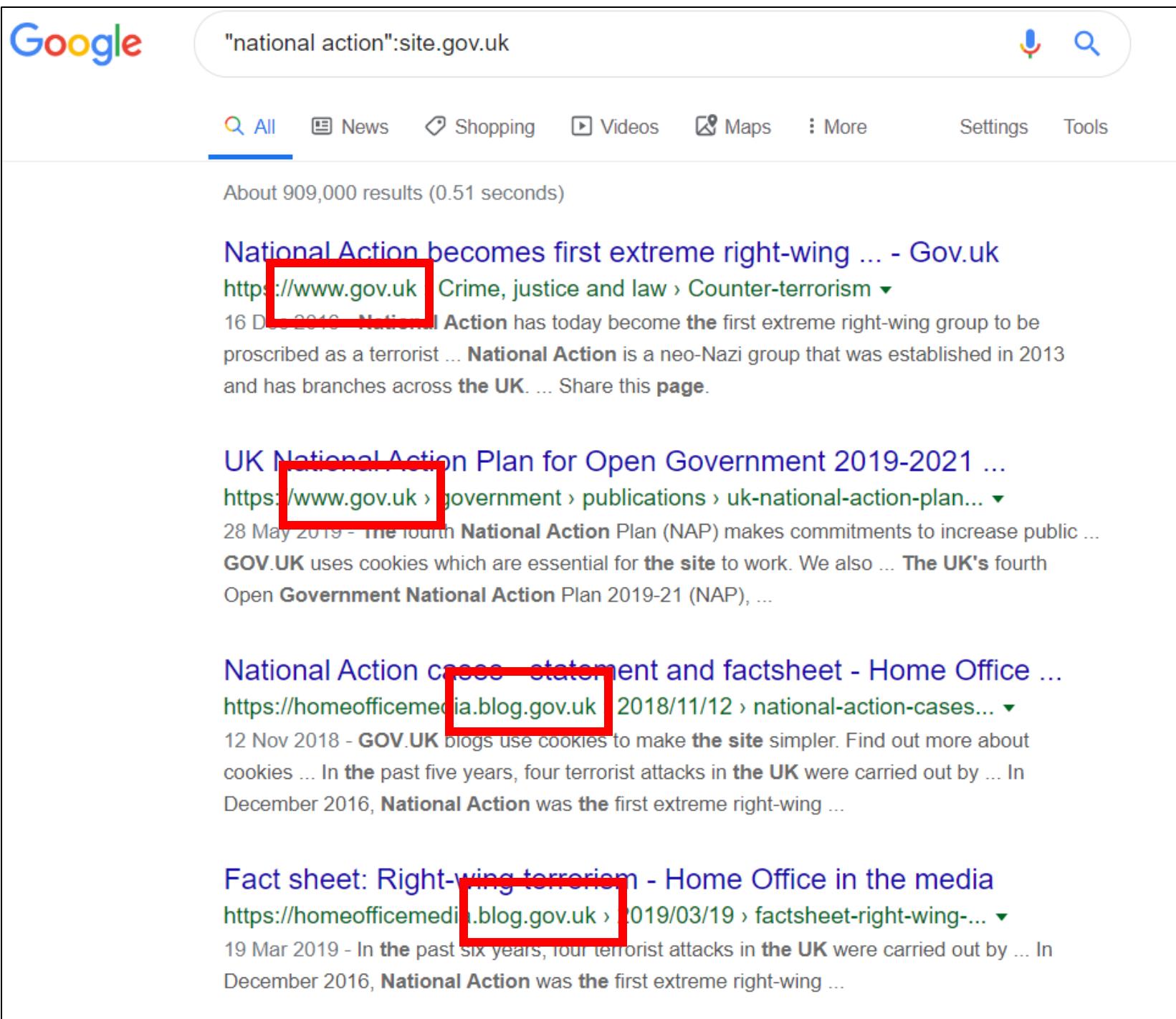
[Form 1098-T IRS filetype:pdf](#)

(Find the US tax form 1098-T in PDF format.)

[link:warriorlibrarian.com](#)

(Find pages that link to [Warrior Librarian](#)'s website.)

Site Search Example



A screenshot of a Google search results page. The search query is "national action":site.gov.uk. The results show four entries, each with a red box highlighting the URL or snippet. The first result is from Gov.uk about National Action becoming a terrorist group. The second is from GOV.UK about the National Action Plan. The third is from Home Office media about National Action cases. The fourth is a fact sheet from Home Office media about right-wing terrorism.

"national action":site.gov.uk

All News Shopping Videos Maps More Settings Tools

About 909,000 results (0.51 seconds)

National Action becomes first extreme right-wing ... - Gov.uk
<https://www.gov.uk> Crime, justice and law › Counter-terrorism ▾
16 Dec 2010 - National Action has today become the first extreme right-wing group to be proscribed as a terrorist ... National Action is a neo-Nazi group that was established in 2013 and has branches across the UK. ... Share this page.

UK National Action Plan for Open Government 2019-2021 ...
<https://www.gov.uk> › government › publications › uk-national-action-plan... ▾
28 May 2019 - The fourth National Action Plan (NAP) makes commitments to increase public ... GOV.UK uses cookies which are essential for the site to work. We also ... The UK's fourth Open Government National Action Plan 2019-21 (NAP), ...

National Action cases statement and factsheet - Home Office ...
<https://homeofficemedia.blog.gov.uk> 2018/11/12 › national-action-cases... ▾
12 Nov 2018 - GOV.UK blogs use cookies to make the site simpler. Find out more about cookies ... In the past five years, four terrorist attacks in the UK were carried out by ... In December 2016, National Action was the first extreme right-wing ...

Fact sheet: Right-wing terrorism - Home Office in the media
<https://homeofficemedia.blog.gov.uk> › 2019/03/19 › factsheet-right-wing-... ▾
19 Mar 2019 - In the past six years, four terrorist attacks in the UK were carried out by ... In December 2016, National Action was the first extreme right-wing ...

Link Search Example

- Link searches can uncover networks of connected sites

Google search results for the query "link:rebellion.earth". The results show several links related to Extinction Rebellion and its activities. One result, "Extinction Rebellion Australia: Home" from <https://ausrebellion.earth>, is highlighted with a red box.

Extinction Rebellion's hapless stance on class and race is a ...
<https://www.independent.co.uk> › voices › extinction-rebellion-climate-crisi... ▾
15 Oct 2019 - Extinction **Rebellion** protesters shut down London roads In Britain, groups like Wretched of The **Earth** and Black Lives Matter UK, have ...

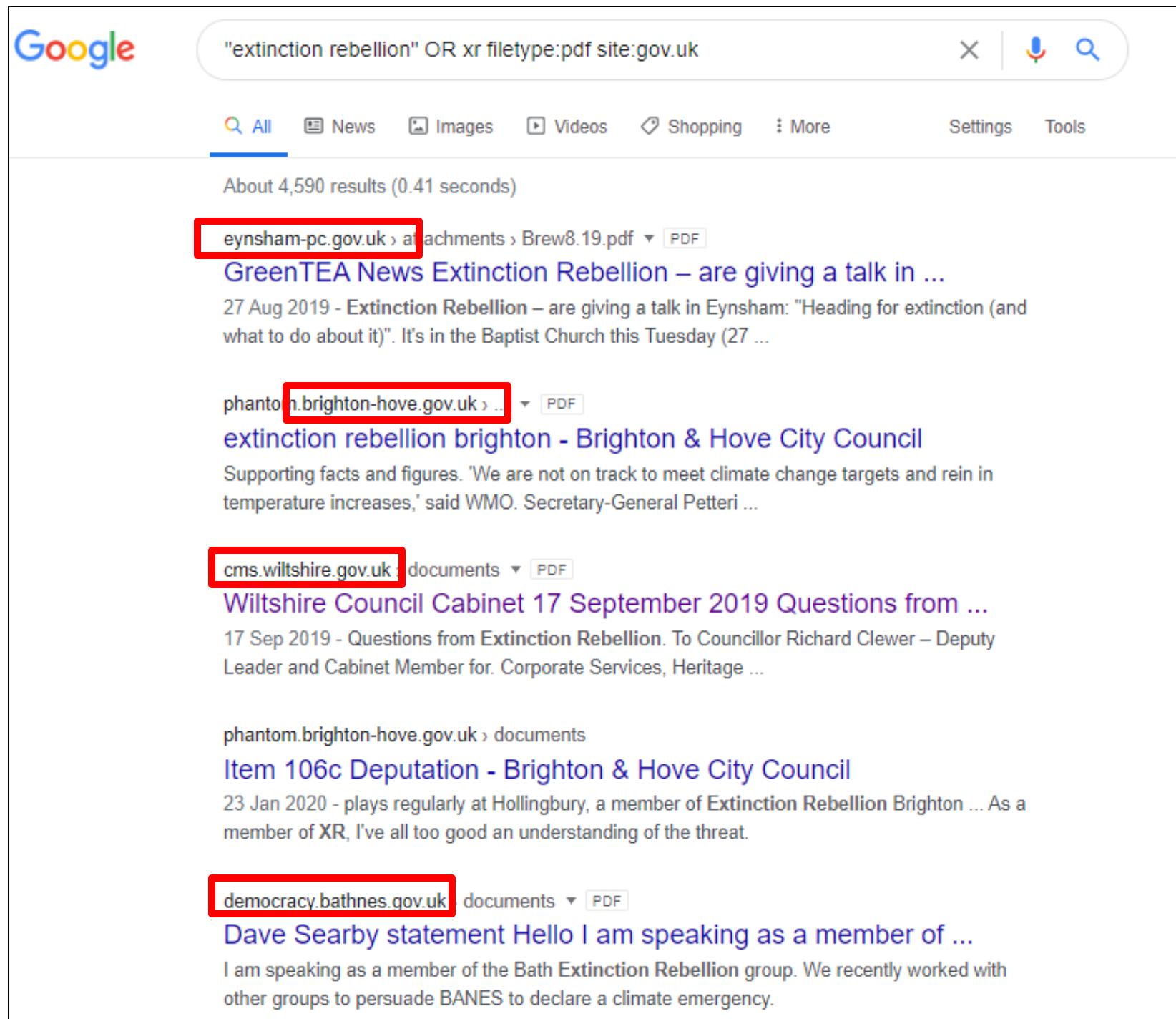
Extinction Rebellion Australia: Home
<https://ausrebellion.earth> ▾
Life on **Earth** is in crisis. Our climate is changing faster than scientists predicted and the stakes are high. Biodiversity loss. Crop failure. Social and ecological ...

Extinction Rebellion Earth March
<https://rebellionearth.uk> ▾
Extinction **Rebellion Earth** March -- marches from around the UK to London for ... the **Earth** March, and if you sign up there are discussion forums as well as **links** ...

How Extinction Rebellion put the world on red alert ...
<https://www.theguardian.com> › environment › oct › how-extinction-rebelli... ▾
6 Oct 2019 - In the last week alone, members of Extinction **Rebellion** have been described Meanwhile, Wretched of the **Earth**, "a grassroots collective for ...
Missing: **link**: | Must include: **link**:

Can Extinction Rebellion Build a U.S. Climate Movement Big ...
<https://theintercept.com> › 2019/10/12 › extinction-rebellion-climate-move... ▾
12 Oct 2019 - The environmental group Extinction **Rebellion** staged a "die-in" at the Charging Bull ... Indeed, Extinction **Rebellion's** ambition is no less than to save the **Earth**. In front of Trinity Church, activists **linked** arms in the middle of ...

filetype: Search Example



A screenshot of a Google search results page. The search query in the bar is '"extinction rebellion" OR xr filetype:pdf site:gov.uk'. The results show four entries, each with a red box around the URL or domain name.

About 4,590 results (0.41 seconds)

1. [eynsham-pc.gov.uk](#) > attachments > Brew8.19.pdf PDF
GreenTEA News Extinction Rebellion – are giving a talk in ...
27 Aug 2019 - Extinction Rebellion – are giving a talk in Eynsham: "Heading for extinction (and what to do about it)". It's in the Baptist Church this Tuesday (27 ...

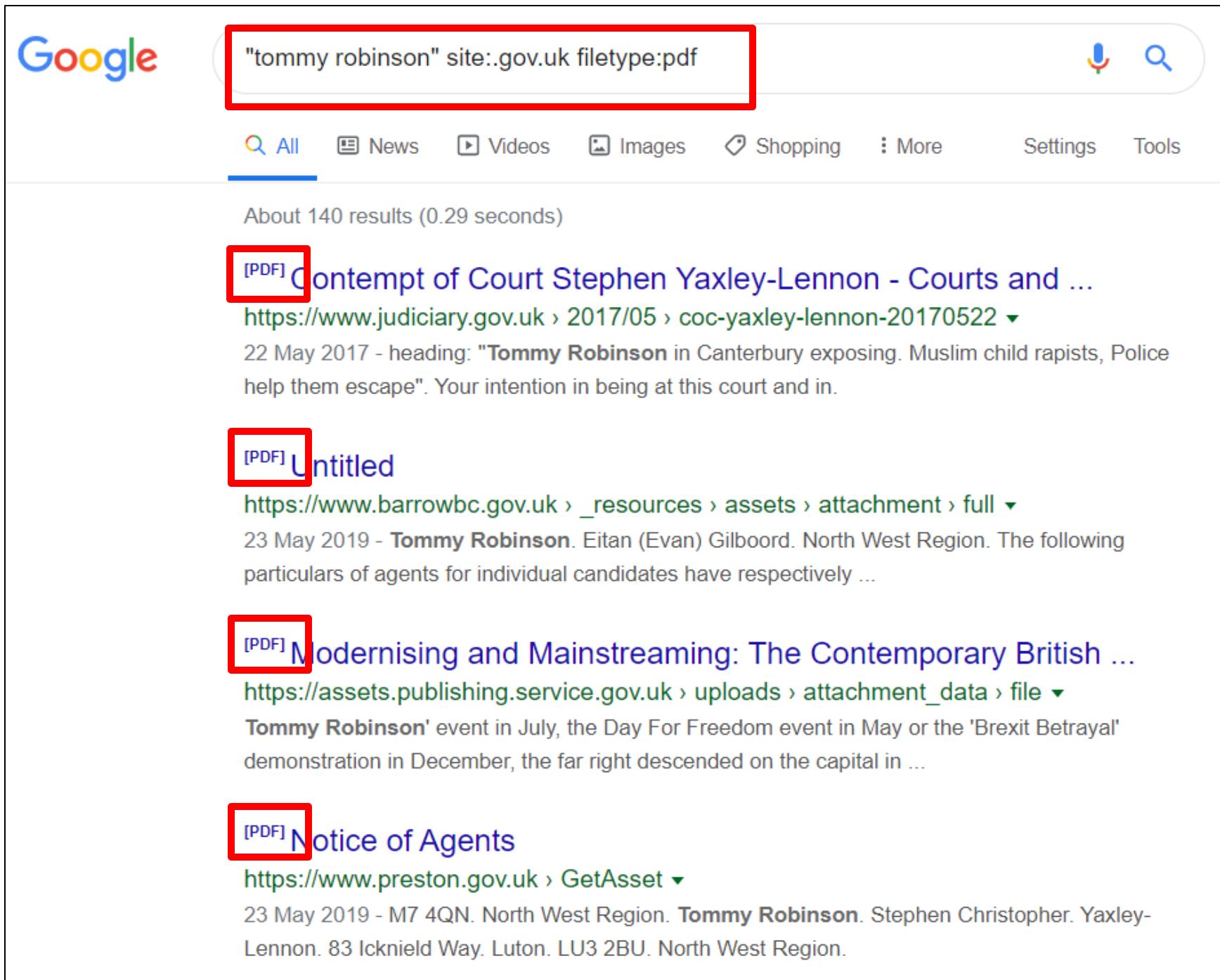
2. [phantom.brighton-hove.gov.uk](#) > .. PDF
extinction rebellion brighton - Brighton & Hove City Council
Supporting facts and figures. 'We are not on track to meet climate change targets and rein in temperature increases,' said WMO. Secretary-General Petteri ...

3. [cms.wiltshire.gov.uk](#) > documents PDF
Wiltshire Council Cabinet 17 September 2019 Questions from ...
17 Sep 2019 - Questions from Extinction Rebellion. To Councillor Richard Clewer – Deputy Leader and Cabinet Member for Corporate Services, Heritage ...

4. [phantom.brighton-hove.gov.uk](#) > documents
Item 106c Deputation - Brighton & Hove City Council
23 Jan 2020 - plays regularly at Hollingbury, a member of Extinction Rebellion Brighton ... As a member of XR, I've all too good an understanding of the threat.

5. [democracy.bathnes.gov.uk](#) > documents PDF
Dave Searby statement Hello I am speaking as a member of ...
I am speaking as a member of the Bath Extinction Rebellion group. We recently worked with other groups to persuade BANES to declare a climate emergency.

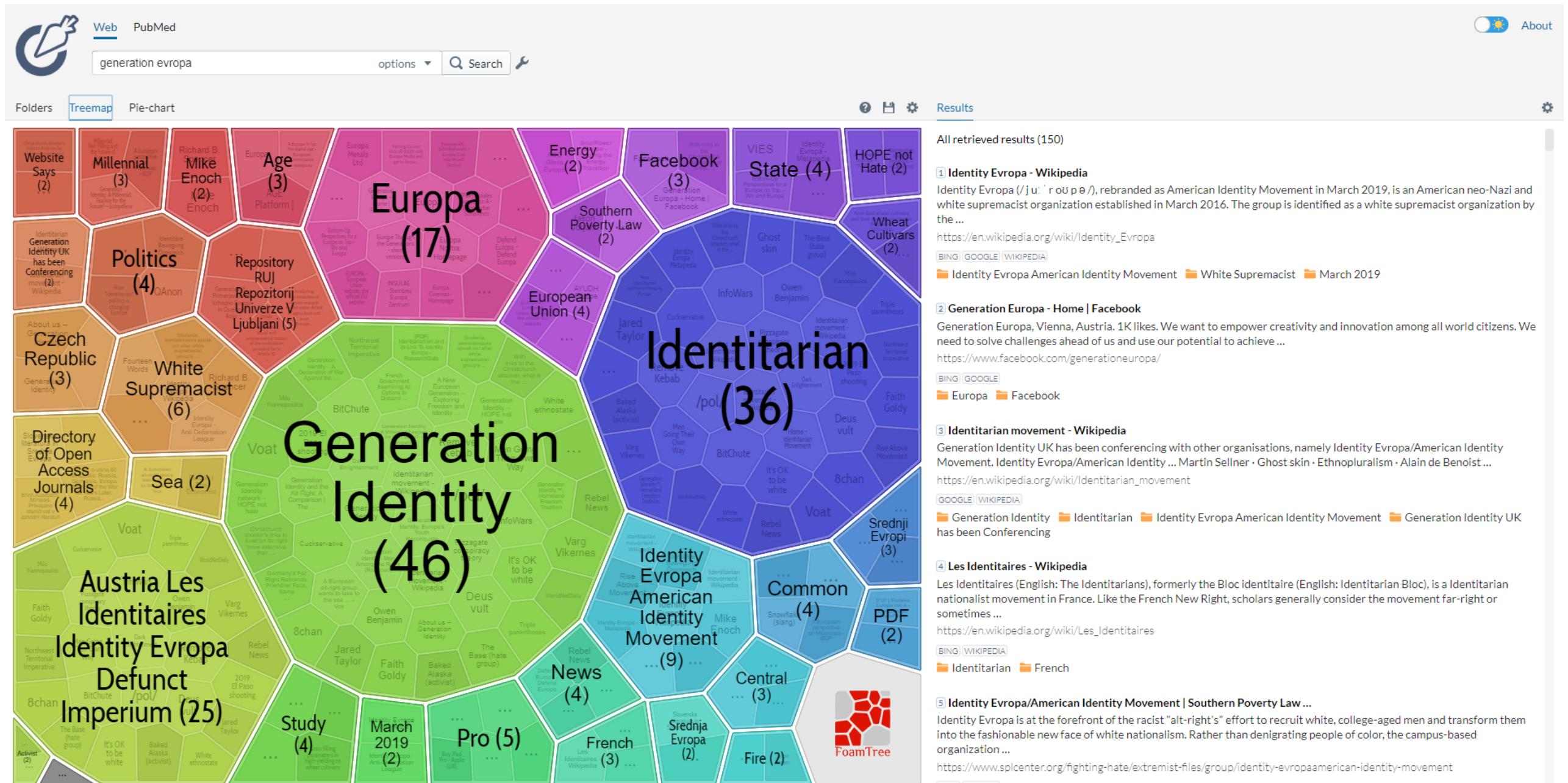
filetype: Search Example



The screenshot shows a Google search results page. The search query is highlighted in a red box: `"tommy robinson" site:.gov.uk filetype:pdf`. Below the search bar, the navigation menu includes All, News, Videos, Images, Shopping, More, Settings, and Tools. A message indicates About 140 results found in 0.29 seconds. The results list four entries, each preceded by a small red box around the [PDF] link:

- [PDF]** Contempt of Court Stephen Yaxley-Lennon - Courts and ...
<https://www.judiciary.gov.uk> › 2017/05 › coc-yaxley-lennon-20170522 ›
22 May 2017 - heading: "Tommy Robinson in Canterbury exposing. Muslim child rapists, Police help them escape". Your intention in being at this court and in.
- [PDF]** Untitled
<https://www.barrowbc.gov.uk> › _resources › assets › attachment › full ›
23 May 2019 - Tommy Robinson. Eitan (Evan) Gilboord. North West Region. The following particulars of agents for individual candidates have respectively ...
- [PDF]** Modernising and Mainstreaming: The Contemporary British ...
<https://assets.publishing.service.gov.uk> › uploads › attachment_data › file ›
Tommy Robinson' event in July, the Day For Freedom event in May or the 'Brexit Betrayal' demonstration in December, the far right descended on the capital in ...
- [PDF]** Notice of Agents
<https://www.preston.gov.uk> › GetAsset ›
23 May 2019 - M7 4QN. North West Region. Tommy Robinson. Stephen Christopher. Yaxley-Lennon. 83 Icknield Way. Luton. LU3 2BU. North West Region.

Carrot2 – Clustering search engine



Metasearch Engines

A screenshot of the Metacrawler metasearch engine. The header features the "metacrawler" logo with a magnifying glass icon. Below the logo is a navigation bar with tabs for "Web" (selected), "News", "Images", and "Videos". A search bar is present at the bottom. The footer contains copyright information and links to "About", "Privacy Policy", "Manage Privacy Settings", "Terms of Use", and "Contact Us".

© 2019 InfoSpace Holdings LLC

About • Privacy Policy • Manage Privacy Settings • Terms of Use • Contact Us

When stuff goes missing...

INTERNET ARCHIVE
WayBack Machine

https://motiv8radiofm.com/meet-the-team/ Go AUG SEP DEC 28 2018 20 About this capture

2 captures 28 Sep 2018 - 29 Dec 2019 2017 2018

THE PENDRAGONS - TAKE BACK CONTROL f t y

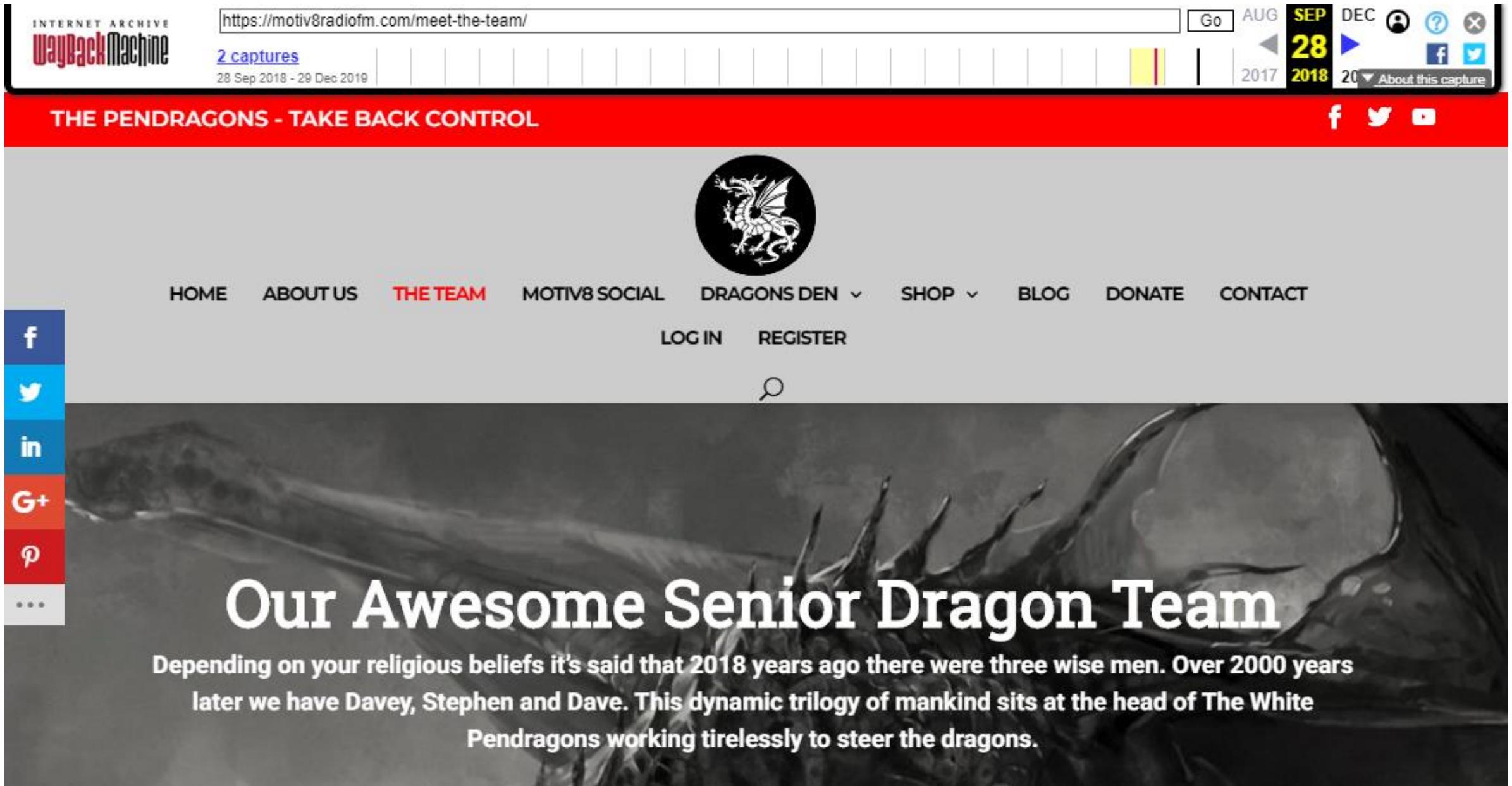
HOME ABOUT US THE TEAM MOTIV8 SOCIAL DRAGONS DEN v SHOP v BLOG DONATE CONTACT

f t in G+ p ...

LOG IN REGISTER

Our Awesome Senior Dragon Team

Depending on your religious beliefs it's said that 2018 years ago there were three wise men. Over 2000 years later we have Davey, Stephen and Dave. This dynamic trilogy of mankind sits at the head of The White Pendragons working tirelessly to steer the dragons.



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Image Searching

Image searching has a number of applications for OSINT

- 1. Identifying Individuals:** if you identify a picture of an individual online you can reverse search it to potentially find social media profiles and other information tied to their picture.
- 2. Identifying Organizations:** you can reverse image search pictures of companies and buildings to potentially identify their physical locations and other useful information.
- 3. Verify Documents:** image searching can help verify documents, e.g. identity documents and other privileged information.

Why is Image Searching Important?



Why is Image Searching Important?



Image searching – the big picture

	Elements Identified	Faces	Structures	Places	Digital/Logos	Alternate Sizes	Flipped or Altered
Google	1	Neutral	Great	Great	Great	Good	Neutral
Yandex	2+	Great	Great	Great	Good	Good	Good
Bing	3+	Good	Good	Good	Good	Neutral	Great
TinEye	1	Neutral	Neutral	Neutral	Great	Great	Good

Source:

[*Verification Handbook for Disinformation and Media Manipulation*, ed. Silverman, C., 2020](#)

Reverse image Searching - Google

Google https://3Cnb_P3C&s extinction rebellion non violent

All Images Maps Shopping More Settings Tools

About 25,270,000,000 results (0.82 seconds)



Image size:
300 × 168

Find other sizes of this image:
[All sizes](#) - [Large](#)

Possible related search: [extinction rebellion non violent](#)

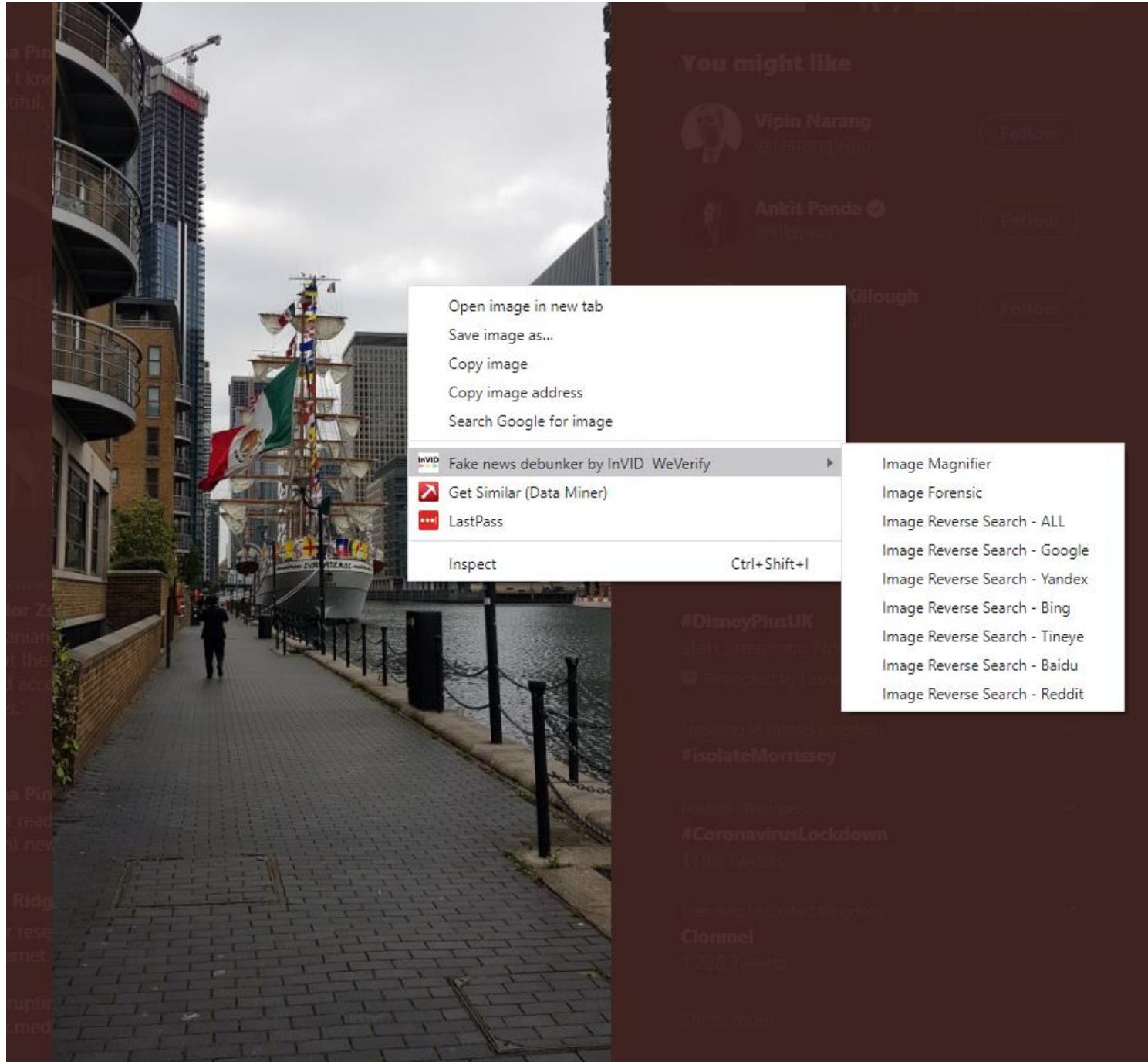
XR Non Violent Direct Action Training - Extinction Rebellion
<https://rebellion.earth> › event › extinction-rebellion-non-violent-direct-acti... ▾
Heal Her London: The Art & Ritual of Protest and **Extinction Rebellion** present a 2-hour training on how to use **non violent** direct action (NVDA) to address the ...

Action Consensus - Extinction Rebellion
<https://rebellion.earth> › act-now › action-consensus ▾
This action consensus is a binding framework for **non violent** direct actions undertaken during the **Extinction Rebellion** campaign. You need to abide by it if you ...

Visually similar images

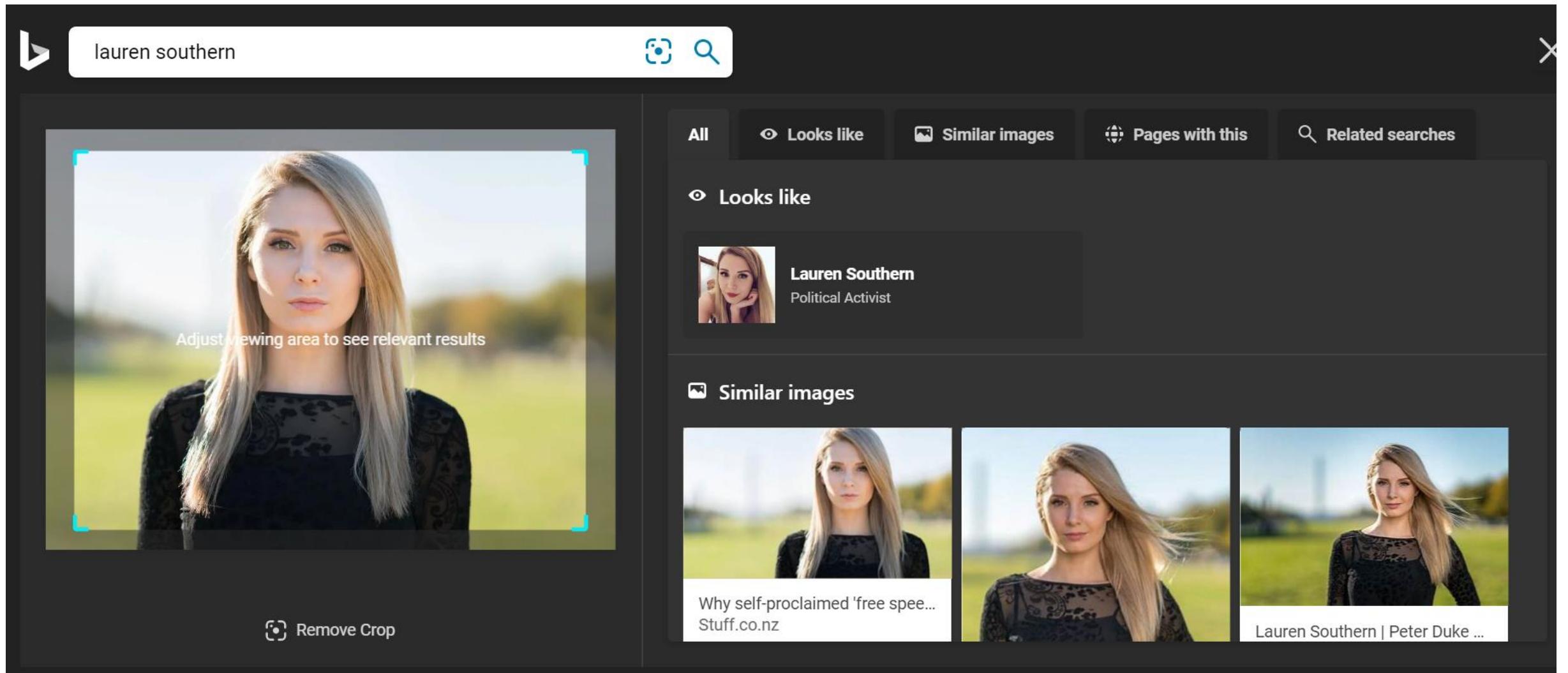


Reverse image searching - InVid



Analysing images from
tweets with InVid

Big image Searching



More maps – Living Atlas

Q-Step in time

World Imagery Wayback

Streatham Rise EX4 4PE

Wayback 2020-03-23

Click map for imagery details

Only versions with local changes

2020-03-23

2019-10-30

2017-10-04

2016-10-25

2014-02-20



<https://livingatlas.arcgis.com/wayback/?ext=-3.54134,50.73144,-3.53635,50.73351&localChangesOnly=true>

Liveuamap

03 August 2019 USA Libya Syria Lebanon Select regions

News Live Language Time Key Login

9 months ago Source Gov. Greg Abbott: Statement on shooting in El Paso

 GOVERNOR GREG ABBOTT
For Immediate Distribution | August 3, 2019 | (512) 463-1826
Governor Abbott Statement On El Paso Shooting
AUSTIN - Governor Greg Abbott today issued the following statement regarding the shooting in El Paso. The Governor will also be traveling to El Paso this afternoon.
"Today, the El Paso community was struck by a heinous and senseless act of violence. Our hearts go out to the victims of this horrific shooting and to the entire community in this time of loss. While no words can provide the solace needed for those impacted by this event, I ask that all Texans join Cecilia and me in offering our prayers for the victims and their families. The state of Texas and the Department of Public Safety are assisting the El Paso Police Department as they conduct their investigation. We have deployed troopers, special agents, Texas Rangers, tactical teams, and aircraft to the scene in a support role. The state of Texas will do everything it can to ensure justice is delivered to the perpetrators of this heinous act."

Comments Tell friends

9 months ago Source Gunman is white male, twenties; wore all black, carried long rifle, per eyewitness. He shot one person in front of Walmart before entering

Comments Tell friends

9 months ago Source El Paso Mayor responding to mass shooting

EPPD confirms several fatalities and multiple suspects in custody. The area is still an active scene while EPPD work with FBI and other law enforcement agencies. We will continue to utilize all available resources to respond to this senseless act of violence. My condolences and prayers go out to all of El Paso as we mourn those impacted by this

Leaflet | Map data © Liveuamap OpenStreetMap contributors

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What is Social Media Intelligence?

Definition:

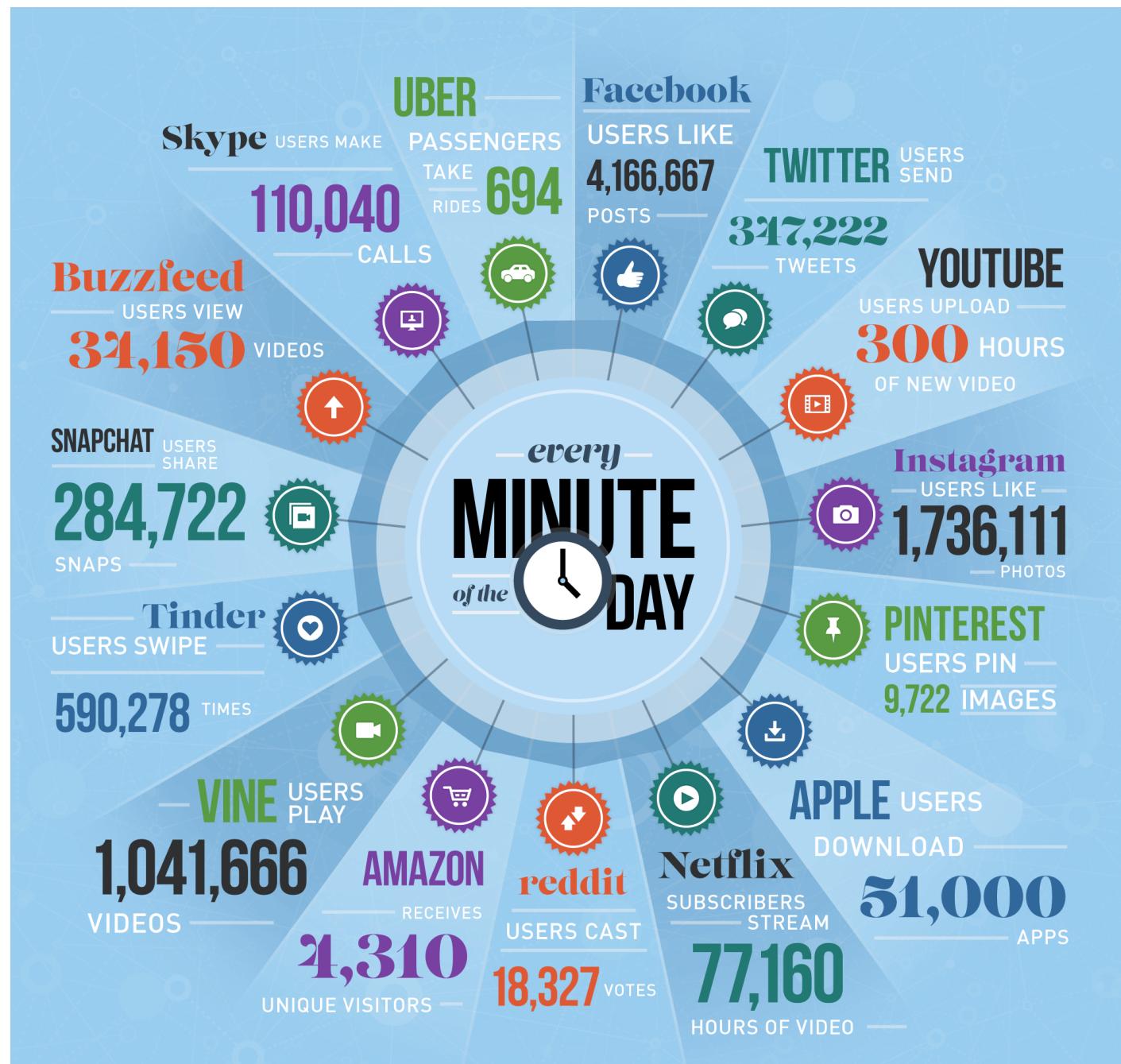
“Social media intelligence refers to the insights generated from analysing information collected from social networks”

Social Media Intelligence Sources

There are a whole range of social media sources, including – but not limited to:

- Social Networks (e.g. Facebook, Twitter, Instagram)
- Forums
- Message board (e.g. Reddit)
- Blogs
- Comment platforms (e.g. Disqus)
- Social wikis
- Social bookmarking sites
- Image sharing platforms
- Social curation
- Review and ratings sites
- Location networks
- Dating apps/websites
- Amazon wedding gift lists

The Social Media Landscape



Source: [The Micro Focus Blog](#)

Open and closed platforms

The collage illustrates the concept of open and closed platforms through examples from different digital environments:

- Instagram Profile (therock):** An open platform where users can follow and interact with public profiles.
- Facebook Post (Buckingham Palace):** A post from a public page sharing a photo of Buckingham Palace.
- Pinterest Pin (The Spare Room):** A pin from a user's board showing a minimalist bedroom interior.
- Twitter Post (VeryBritishProblems):** A tweet from a verified account listing excuses for being unable to take a video call.
- Cartoon Illustration:** A cartoon waiter serving anthropomorphic animals (a green lizard, a white rabbit) in a pub setting, possibly a meme or a specific platform's content.

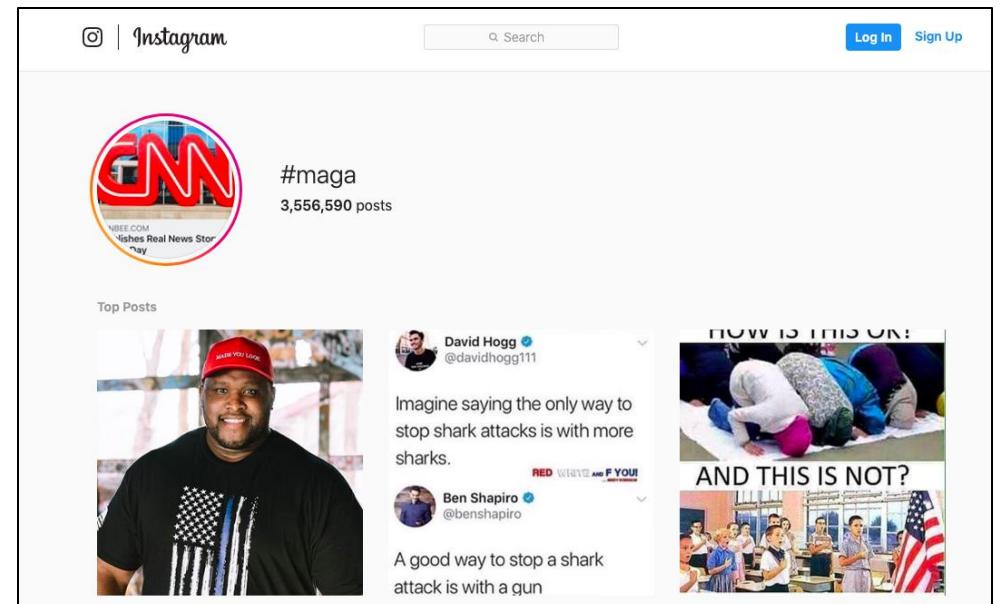
Open and closed platforms

The collage consists of three main sections:

- Facebook Messenger (Left):** Shows the messaging interface with a sidebar for chats, settings, and account management. A dropdown menu is open, showing options like 'Settings', 'Active contacts', and 'Log Out'.
- Instagram Profile (Middle Left):** Displays a private profile for 'andreea'. It shows 28 posts, 511 followers, and 529 following. A message at the bottom reads: "This Account is Private. Follow to see their photos and".
- Facebook Group Page (Bottom Left):** Shows the 'Beckenham and West Wickham Local' group page. It has 4,766 members, a section for admins (listing Marcus), and an activity feed.
- Telegram Chat (Right):** A screenshot of a Telegram mobile app showing a conversation with PollBot, Madame X, and Sandro Arturo. It includes a timestamp of 11:18 and a blue header.

Open and closed platforms

- Open platforms, in theory are much easier to search
- But risk that privacy settings change or political conditions change which limit access



Searching Social Media with Search Engines

site:facebook.com intext:"White Pendragons"

About 1,660 results (0.42 seconds)

Videos



What do the "White Pendragons" stand for? No idea.

Facebook - 14 Jan 2018



Paul Brand - White Pendragons disrupt Sadiq Khan's speech

Facebook - 14 Jan 2018

www.facebook.com/groups/TheWhitePenDragons ▾
The original White PenDragons Public Group | Facebook
The original White PenDragons has 1363 members. A constitutional awareness group for like minded people that will go one step further to get our...

www.facebook.com/category/Community-Organization
Northamptonshire White Pendragons Group - Home | Facebook
Northamptonshire White Pendragons Group. 155 likes. Community Organization.

www.facebook.com/PokeHQ/posts/the-call-thems... ▾
The Poke - The call themselves the 'White Pendragons' and ...
The call themselves the 'White Pendragons' and they disrupted a speech by London mayor Sadiq Khan this week. But from now on you'll know them better as...

www.facebook.com/posts
Northamptonshire White Pendragons Group - Posts | Facebook
MORRISON'S So Much for Morrison's customer care services's word they will speak to the store Manager to get it cleaned up, why should it be our responsibility ...

site:facebook.com intext:"free speech" AND "Lauren Southern" -"Molyneux" X

All News Images Videos Maps More Settings Tools

About 1,680 results (0.40 seconds)

www.facebook.com/LaurenCSouthern/videos/the-alt...
Lauren Southern - The Alt-Light Vs. Free Speech? | Facebook
25 Jun 2017 - Is the so-called "alt light" turning into an anti-free speech crusade? What are they fighting for? Here are my thoughts and criticisms on today's...

www.facebook.com/VjmPublishing/photos/lauren... ▾
VJM Publishing - "[Lauren Southern] abuses her right of ...
"[Lauren Southern] abuses her right of freedom of speech. ... I don't think insulting Muslims comes under free speech, that's an abuse of freedom of speech."

pt-br.facebook.com/schildenvrienden/videos/lauren...
Lauren Southern on Schild & Vrienden - Facebook
 "It made waves across the world". Onafhankelijk journaliste, best selling author en free speech ...
4 Oct 2018

www.facebook.com/LaurenCSouthern/posts ▾
Kipling Kear to Lauren Southern - Facebook
4 Aug 2018 - Free speech is alive and well folks... We just don't like hate speech. Be nice if you could try to learn the difference.

zh-cn.facebook.com/posts/lauren... ▾ [Translate this page](#)
Lauren Southern on the culture of rape... - Facebook - 登录或 ...
在Facebook 上查看Free speech of Canada 的更多内容. 登录. 忘记帐户? 或. 新建帐户. 以后再说. 中文(简体) · English (US) · Español · Português (Brasil) ...

www.facebook.com/notes/uoft-gsu/an-open-letter... ▾
An Open Letter Regarding Jordan B. Peterson and Free ...
On October 11th, Geoffrey Biffo Liew and others hosted a "U of T Free Speech Rally" featuring Lauren Southern from Rebel Media and Peterson. Peterson spent ...

www.facebook.com/LaurenCSouthern/posts/supp... ▾
Thomas J Osburg - Support in New Zealand for you Lauren ...
See more of Lauren Southern on Facebook. Log In. Forgot account ... More than 100 people have turned out in Auckland to a free-speech rally... More than 100 ...

Twitter Advanced Search

The image shows the Twitter Advanced search interface with three main panels:

- Words** (Left Panel):
 - All of these words: Example: what's happening · contains both "what's" and "happening"
 - This exact phrase: Example: happy hour · contains the exact phrase "happy hour"
 - Any of these words: Example: cats dogs · contains either "cats" or "dogs" (or both)
 - None of these words: Example: cats dogs · does not contain "cats" and does not contain "dogs"
 - These hashtags: Example: #ThrowbackThursday · contains the hashtag #ThrowbackThursday
 - Language
- Engagement** (Middle Panel):
 - Minimum replies: Example: 280 · Tweets with at least 280 replies
 - Minimum Likes: Example: 280 · Tweets with at least 280 Likes
 - Minimum Retweets: Example: 280 · Tweets with at least 280 Retweets
- Accounts** (Right Panel):
 - From these accounts: Example: @Twitter · sent from @Twitter
 - To these accounts: Example: @Twitter · sent in reply to @Twitter
 - Mentioning these accounts: Example: @SFBART @Caltrain · mentions @SFBART or mentions @Caltrain
 - Filters**:
 - Replies**: Includes a checked toggle switch.
 - Include replies and original Tweets: A checked checkbox.
 - Only show replies: An unchecked radio button.
 - Links**: Includes a checked toggle switch.

When tweets go missing...

archive.today
webpage capture

Saved from <https://twitter.com/ColumbiaBugle/status/899016457706627072> no other snapshots from this url

Redirected from <http://twitter.com/ColumbiaBugle/status/899016457706627072> no other snapshots from this url

All snapshots from host [twitter.com](#)

Webpage Screenshot

share download .zip report error or abuse

Home Moments Search Twitter X Have an account? Log in ▾

The Columbia Bugle
@ColumbiaBugle

Trump was completely right about the Alt Left and has been proven right by the Left's awful display in Boston.

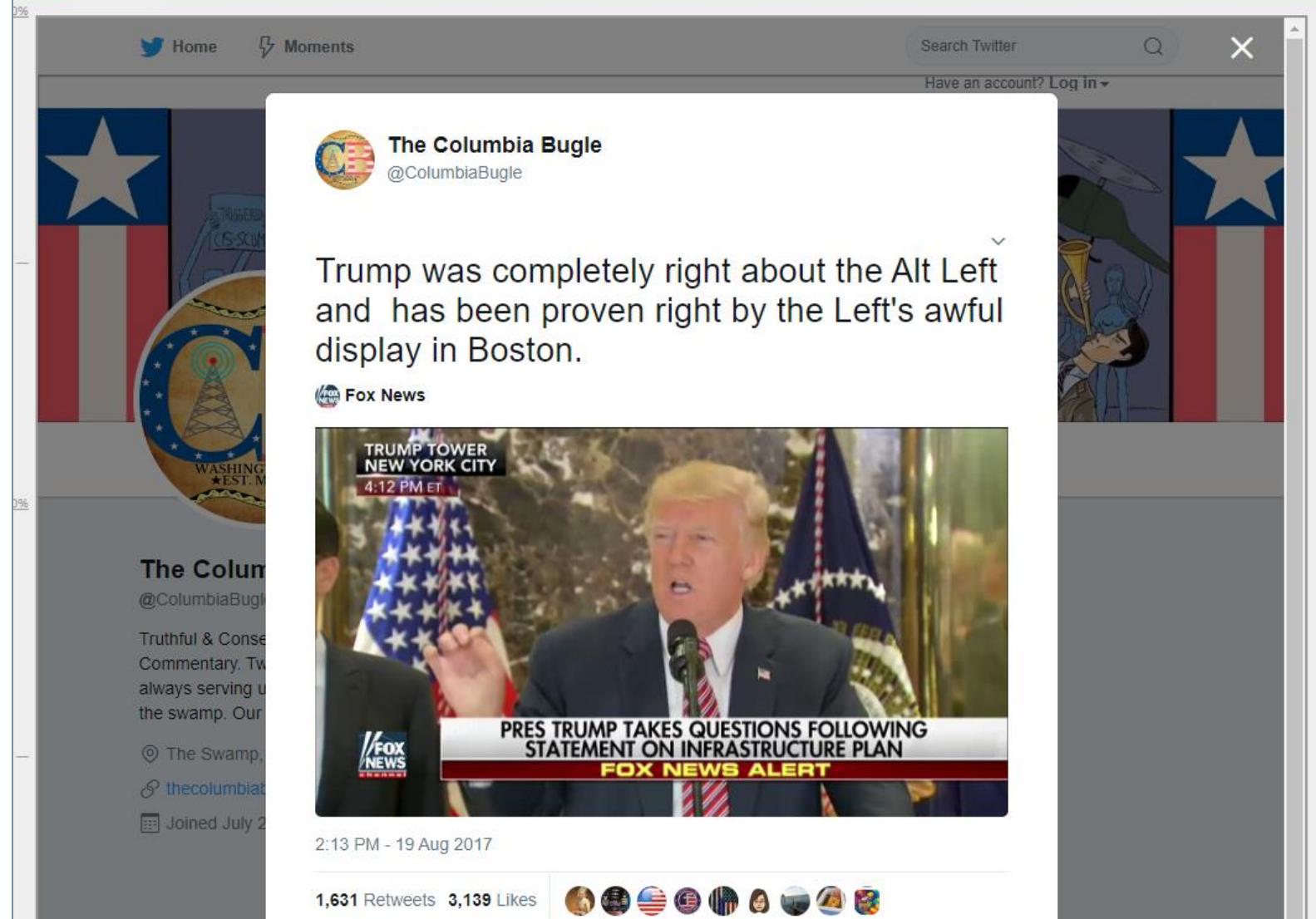
Fox News

TRUMP TOWER NEW YORK CITY
4:12 PM ET

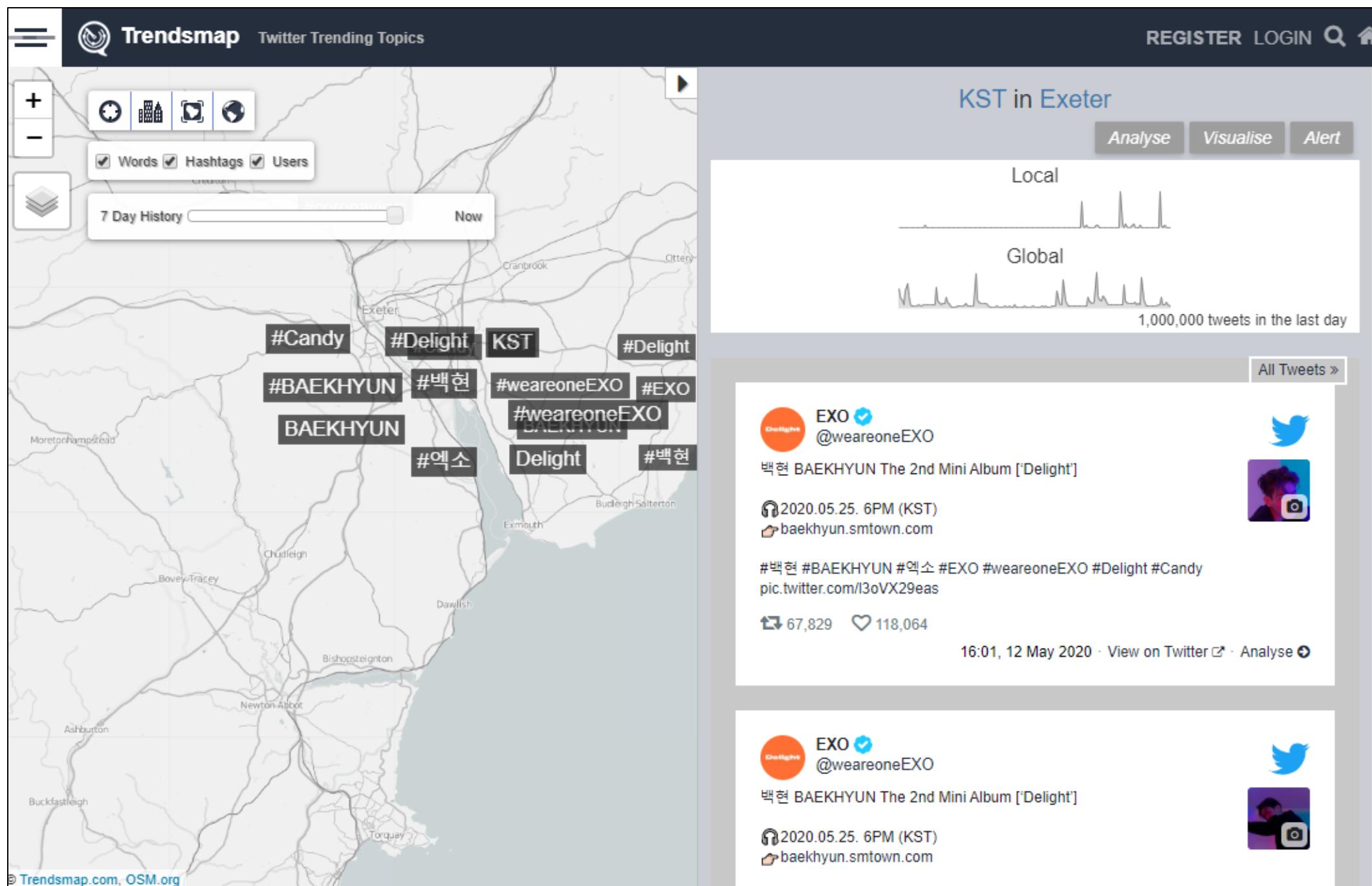
PRES TRUMP TAKES QUESTIONS FOLLOWING STATEMENT ON INFRASTRUCTURE PLAN FOX NEWS ALERT

2:13 PM - 19 Aug 2017

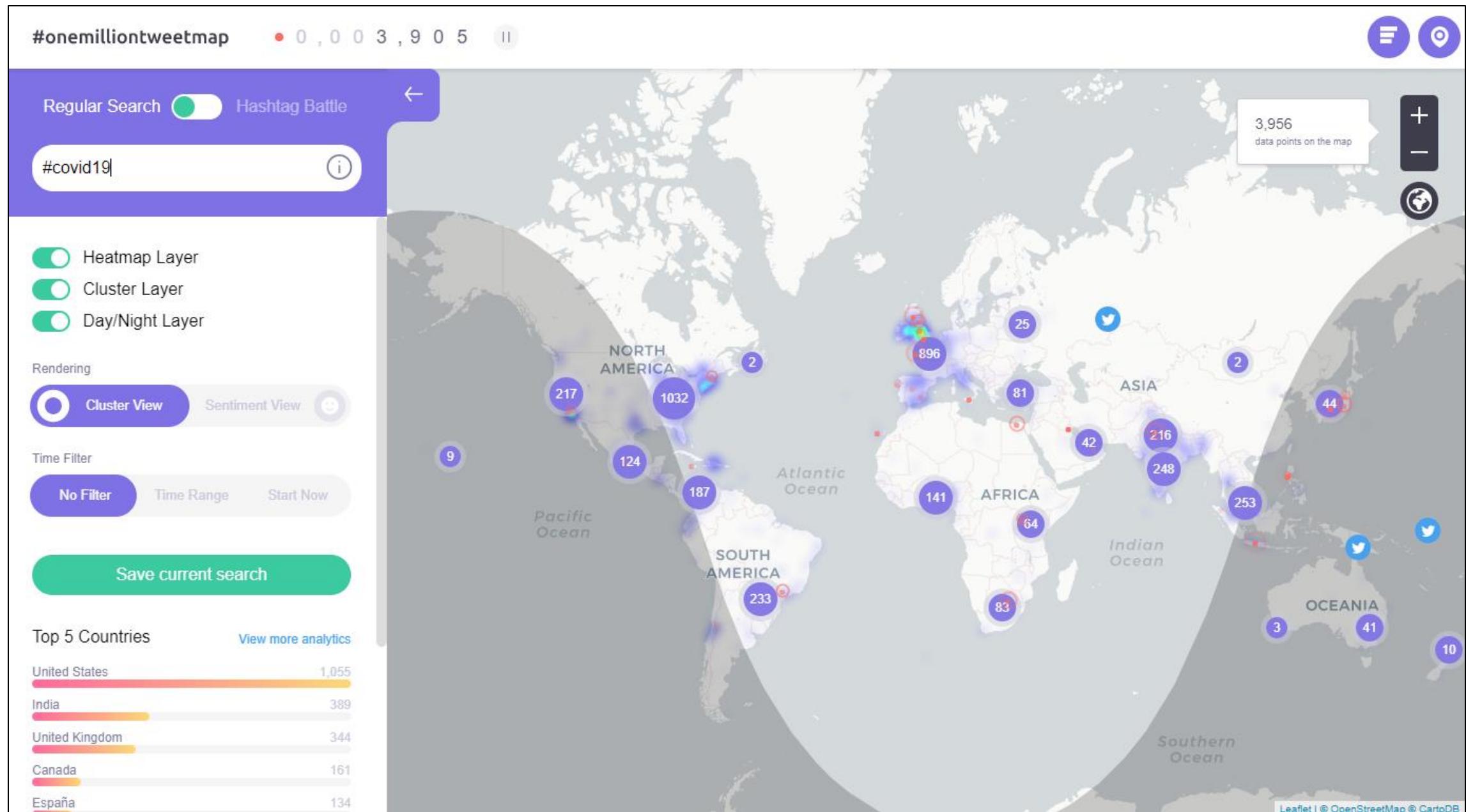
1,631 Retweets 3,139 Likes



Trendsmap



#onemilliontweetmap



Bots and inauthentic activity



Anthony Caldwell

@Anthony54090112

I am a man of my word I would like to make some friends here

Joined September 2019



Pascal Gautier

@PascalG10282130

La vie j'adore je veux me faire des amis

Joined September 2019



Rodrigo

@Rodrigo14672317

Darlehensangebote

Joined September 2019

Username followed by a 4 digit number	12 random characters in length which can consist of (a-zA-Z and 0-9)	Any first name followed by a random eight-digit number, indicating that the default username generated by Twitter has been used.
superman_1230	vP1tfI1ZoPG1	Neil03121977
superman_2313	dNi29j2utANQ	Sarah92839820
superman_9832	YQBrodhbPC84	Claire02938593
superman_3934	TUq3R6GBWYyA	John09340293
superman_4920	XI87NreGshx8	Stephen83749284

Bots and inauthentic activity

Michael Günther
@MichaelG0871

Weltoffen, Naturliebend, Heimatliebend.
Patriot. Ich zeige Gesicht, für freie
Meinungsäußerung, Demokratie und
einen funktionierenden Rechtsstaat

Joined September 2019

34 Photos and videos

Tweets 10.4K Following 78 Followers 234 Likes 11K

Tweets **Tweets & replies** **Media**

Michael Günther Retweeted

Picco @Picco94115398 · Oct 12

Ein Frosch der hüpf't von Stein zu Stein,
er denkt, Mensch bin ich weise,
am Letzten steht ein Storchenbein,
da endet seine Reise...

© Klaus Ender (*1939)

Fernschreiber @Fern_Schreiber

Malte, der Freitags immer auf Demos rumhüpft, macht
jetzt ein Praktikum im Einzelhandel.

Outline

1. Introduction to **OSINT**: what it is, what it's not and where it's going.
2. Using **OSINT tools in academic research**: getting more out of your search engines, imagery and social media – a case study
3. **False friends, bigger questions and resources**

Miracle tools



"I know so much that I don't know where to begin."

Source: [The New Yorker, 2012](#)

Exclusive pic of Nigel Farage arriving at his local polling station earlier today... #GE2015



11:11 PM · May 7, 2015 · TweetDeck

219 Retweets 140 Likes

Callum @Callum_1996_ · May 7, 2015
Replying to @JOE_co_uk
@JOE_co_uk @TheFootyBible HAHHAHAHAHAHAHAHAHAH

Josh @JoshGraley97 · May 7, 2015
Replying to @JOE_co_uk
@JOE_co_uk @DoYouWantSome_ @joshishnffc

Omar @omarsnmyoungsta · May 7, 2015
Replying to @JOE_co_uk
@JOE_co_uk @AdamMcKola @ManLikeAmaan

caano boys @SW6Chelsea · May 8, 2015
Replying to @JOE_co_uk
@JOE_co_uk @FootyMemories Ahahaahahaa

Joe Godfrey @Joemay5 · May 8, 2015
Replying to @JOE_co_uk
@JOE_co_uk @Ridiculousne55 shame the ukip party aren't racist or that'd be a good joke. Now hop off the bandwagon

danny rochester @danroch79 · May 8, 2015
Replying to @JOE_co_uk
@JOE_co_uk

Jack Binder @Jack_Binder · May 8, 2015
Replying to @JOE_co_uk
@JOE_co_uk @the_real_joehg 🙄😂😂

Sacha Perko @SachaPerko · May 8, 2015
Replying to @JOE_co_uk
@JOE_co_uk @SportsWankers

darren mallette @dal_30 · May 9, 2015
Replying to @JOE_co_uk
"@JOE_co_uk: Exclusive pic of Nigel Farage arriving at his local polling station earlier today... #GE2015 " lol



Metadata

[https://twitter.com/JOE_co_uk/
status/596437186045575168](https://twitter.com/JOE_co_uk/status/596437186045575168)

```
{
  "_id" : ObjectId("576ed4b31768d61dc4c377c2"),
  "body" : "@JOE_co_uk: Exclusive pic of Nigel Farage arriving at his local polling station earlier today... #GE2015 http://t.co/53HcCVxbGx" lol",
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    "link" :
    "http://twitter.com/JOE_co_uk/statuses/596437186045575168"
  },
  "retweetCount": 0,
  "generator": {
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    "displayName" : "Twitter for iPad"
  },
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  "gnip": {
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        "tag": null,
        "value": "#GE2015 lang:en"
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        "expanded_status": 200,
        "expanded_url":
        "http://twitter.com/JOE_co_uk/status/596437186045575168/photo/1"
      }
    ],
    "favoritesCount": 0,
    "object": {
      "postedTime": "2015-05-08T23:38:32.000Z",
      "summary": "@JOE_co_uk: Exclusive pic of Nigel Farage arriving at his local polling station earlier today... #GE2015 http://t.co/53HcCVxbGx" lol",
      "link" :
      "http://twitter.com/dal_30/statuses/596821517951991808",
      "id" : "object:search.twitter.com,2005:596821517951991808",
      "objectType": "note"
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    "actor": {
      "preferredUsername": "dal_30",
      "displayName": "darren mallette",
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          "rel": "me"
        }
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      "verified": false,
      "location": {
        "displayName": "london",
        "objectType": "place"
      },
      "statusesCount": 6941,
      "summary": "rugby union/league nut who happens to like Basketball, Ice Hockey,tna, wwe and miami dolphins. go figure!",
      "languages": [
        "en"
      ]
    }
  }
}

{
  "id" : 1854580777,
  "indices": [
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    11
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  "id_str": "1854580777",
  "screen_name": "JOE_co_uk",
  "name": "JOE.co.uk"
}

{
  "trends": [],
  "urls": []
}

{
  "verb": "post",
  "link" :
  "http://twitter.com/dal_30/statuses/596821517951991808",
  "location": {
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    "name": "Barking",
    "link" :
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    "country_code": "United Kingdom",
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      "coordinates": [
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            [
              [
                [
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                  51.5114666
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                  51.596571
                ],
                [
                  0.189997,
                  51.596571
                ],
                [
                  0.189997,
                  51.5114666
                ],
                [
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                  51.5114666
                ]
              ]
            ]
          ]
        ]
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    }
  }
}

{
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}

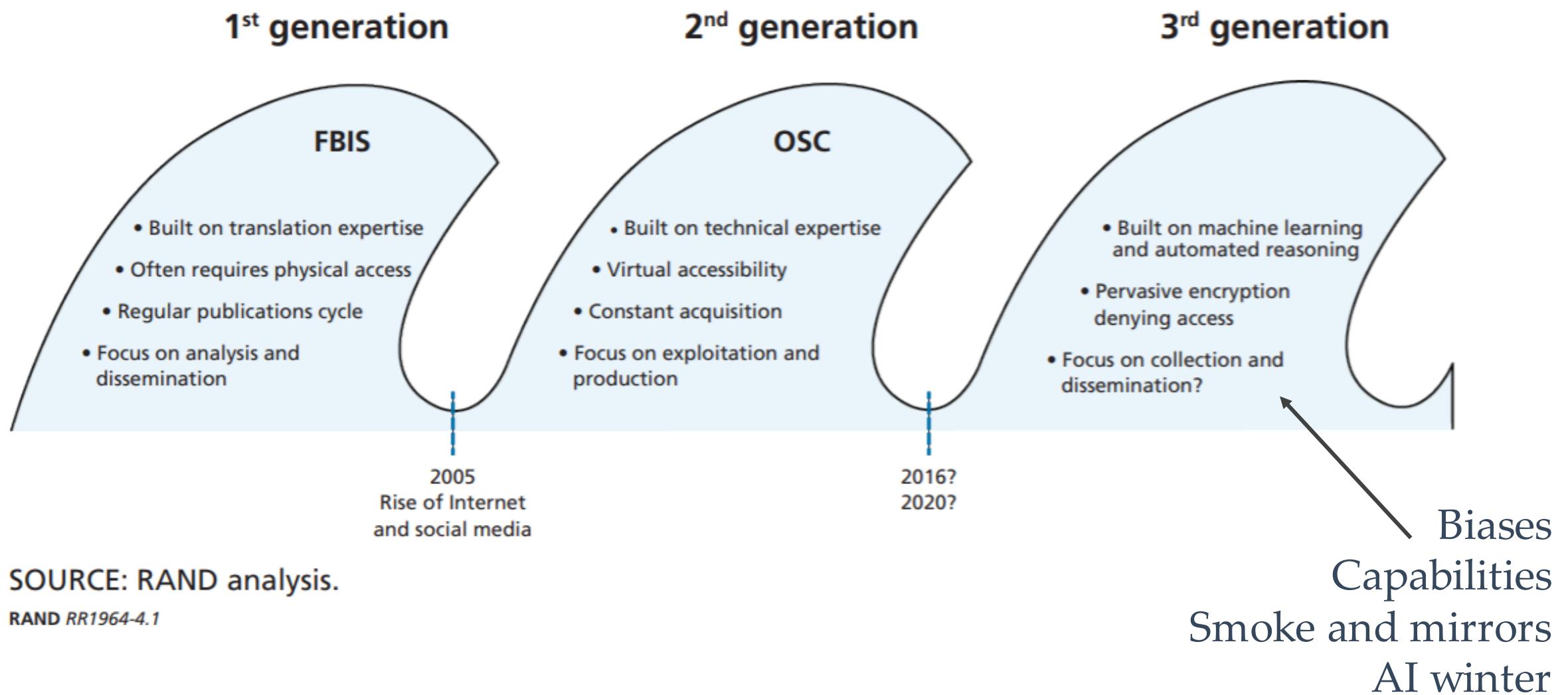
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  },
  "postedTime": "2015-05-08T23:38:32.000Z",
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  "objectType": "activity"
}

```

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  "body" : "@JOE_co_uk: Exclusive pic of Nigel Farage arriving at his local polling station earlier today... #GE2015 http://t.co/53HcCVxbGx" lol",
  "inReplyTo" : {
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    "http://twitter.com/JOE_co_uk/statuses/596437186045575168"
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  "retweetCount" : 0,
  "generator" : {
    "link" : "http://twitter.com#!/download/ipad",
    "displayName" : "Twitter for iPad"
  },
  "twitter_filter_level" : "low",
  "gnip" : {
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      {
        "tag" : null,
        "value" : "#GE2015 lang:en"
      }
    ],
    "language" : {
      "value" : "en"
    },
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        "http://twitter.com/JOE_co_uk/status/596437186045575168/photo/1"
      }
    ],
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    "object" : {
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      "id" : "object:search.twitter.com,2005:596821517951991808",
      "objectType" : "note"
    },
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      "preferredUsername" : "dal_30",
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        {
          "href" : null,
          "rel" : "me"
        }
      ],
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      "image" :
      "https://pbs.twimg.com/profile_images/3546410430/07d802363189c84e095cb24bc39c6f0_normal.jpeg",
      "verified" : false,
      "location" : {
        "displayName" : "london",
        "objectType" : "place"
      },
      "statusesCount" : 6941,
      "summary" : "rugby union / league nut who happens to like Basketball, Ice Hockey, nba, wwe and miami dolphins. go figure!",
      "languages" : [
        "en"
      ]
    }
  }
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  "favoritesCount" : 1052,
  "friendsCount" : 1069,
  "listedCount" : 7,
  "postedTime" : "2012-01-25T15:56:06.000Z",
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  "objectType" : "person"
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            "resize" : "fit",
            "w" : 340
          },
          "large" : {
            "h" : 650,
            "resize" : "fit",
            "w" : 850
          },
          "medium" : {
            "h" : 458,
            "resize" : "fit",
            "w" : 600
          },
          "thumb" : {
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            "resize" : "crop",
            "w" : 150
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    "urls" : []
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    "country_code" : "United Kingdom",
    "geo" : {
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              ]
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        ]
      ]
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        "url" : "http://t.co/53HcCVxbGx",
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            "resize" : "fit",
            "w" : 340
          },
          "large" : {
            "h" : 650,
            "resize" : "fit",
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          },
          "medium" : {
            "h" : 458,
            "resize" : "fit",
            "w" : 600
          },
          "thumb" : {
            "h" : 150,
            "resize" : "crop",
            "w" : 150
          }
        },
        "indices" : [
          106,
          128
        ],
        "type" : "photo",
        "id" : NumberLong(596436277270020096),
        "media_url" :
        "http://pbs.twimg.com/media/CEb3oIXWAAUlwu.jpg"
      }
    ]
  },
  "provider" : {
    "link" : "http://www.twitter.com",
    "displayName" : "Twitter",
    "objectType" : "service"
  },
  "postedTime" : "2015-05-08T23:38:32.000Z",
  "id" : "tag:search.twitter.com,2005:596821517951991808",
  "objectType" : "activity"
}
}
```

The future is artificial

Figure 4.1
Characteristics of OSINT Generations



Keeping informed

- ❖ [Verification Handbook for Disinformation and Media Manipulation, ed. Silverman, C., 2020](#)
- ❖ [Faros Foundation OSINT resources dashboard](#)
- ❖ [UK OSINT Net](#)
- ❖ [The follower factory – NYT investigation](#)
- ❖ Extensions:
 - ❖ InVid
 - ❖ FireShot
 - ❖ Project Naptha
 - ❖ RevEye
- ❖ Wayback Machine
- ❖ Crowd Tangle
- ❖ Twitter is your friend!
 - ❖ @OsintCurious
 - ❖ @LorandBodo
 - ❖ @dutch_osintguy
 - ❖ @i_intelligence
 - ❖ @bellingcat
- ❖ **@quiztime**

Just because you can conduct open source research doesn't mean you always should.

Questions?

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@adinaapintilie