#OSINT Investigative visual research methods

Dataharvest 2021

By Ben Heubl @BenHeubl

Overview

- Visual OSINT 101 for journalists
- Tracking extremism across Europe
- Ship tracking
- Other useful links

Visual OSINT 101 for journalists: What is it?

Analyzing video, photo and any other visual material

What kind of story do you want to tell with OSINT?

- 1. The Chain
- 2. The Pivot
- 3. The Pattern
- 4. Simple verification or 'attestation' story

The chain

Training guide here



Martin Sellner

Die Zensurmafia greift alle meine Plattformen an. Helft mir gegen sie zu bestehen und verbreitet diese links:

Hier könnt ihr meine Arbeit unterstützen:

🙏 Monatlich unterstützen

₿ Via Bitcoin

Martin Sellner

IBAN: HU85 1177 5379 5858 6882 0000 0000

BIC: OTPVHUHB

The Pivot





Replying to @benheubl

[4]#OSINT •• sug Heckler & Koch's PR issues continue on #socialmedia. HK accounts promote individuals who make political & derogative comments (see img analysis) raising sincere questions about #unethical behaviour of #armsindustry's giants

...



12:02 PM · Mar 5, 2021 · Twitter Web App



The Pivot





Satellite imagery of Yongbyon Nuclear Research Facility shows steam/smoke emanating from a small support building in the center of the facility, indicating that the building is being heated.

Snapshot by Joseph Bermudez & @VictorDCha / @CSIS

bit.ly/39q3mHi

Key points

NBC coverage here



Reprocessing Activity at Yongbyon's Radiochemistry Laboratory? - Beyond ... At the Yongyon Radiochemistry Laborat... & beyondparallel.csis.org

8:42 PM · Mar 30, 2021

 \bigcirc 14 \bigcirc 1 \oslash Copy link to Tweet



Read the full investigation here

Read the training post here

Ship tracking

THE VERACRUZ SHOULDN'T simply disappear. This is no small fishing boat but a 108m-long, 3,755 gross tonnage, refrigerated cargo ship built in 1977. Yet every time it crosses the sea border from Namibia to Angola it seems to do exactly that, as its operators switch off the automatic identification system (AIS) tracking signal. 'Going dark' contravenes the international treaty for Safety of Life At Sea (SOLAS) rules for ships like this of over 300 gross tonnage.

The Veracruz was repeatedly receiving catches from a local fishing vessel. This owners take advantage of poor oversight in the region, where authorities appear powerless to control transshipping. Europe then benefits at the expense of some of the poorest nations in the world.

West Africa is a hotspot for what is known in the industry as illegal, unreported, and unregulated (IUU) fishing. The UN's Food and Agriculture Organization says IUU fishing and transshipping are tightly connected, and West African nations lose \$2.3bn each year to it, according to *Frontiers in Marine Science* journal.

How does the figh transhipment business

leave local fishers short of catch for the home market. Across West Africa, 37 species are now classed as 'threatened with extinction'. Between Angola and Mauritania, 14 others are nearly threatened, according to the International Union for the Conservation of Nature (IUCN).

Mapping the encounters

E&T's investigation followed several European cargo ships. Fisheries intelligence outfit Trygg Mat Tracking (TMT) provided us with a list of reefer vessels, some of them from Fuence matching toll tale signs of

Case study: Tracking illegal fish transshipments in West Africa

Guide





Case study: Tracking illegal fish transshipments in West Africa

• Analyse fishing levels and possible illegal fishing activities

Case: Ocean Fresh

- IMO: 8301175
- Owner: Ocean Fresh Food Ltd
- <u>Researching the crew</u>

<u>Global Fishing Watch</u> <u>Carrier Vessel</u> (download AIS data)

Marinetraffic



Case study:

- Analyse fishing levels and possible illegal fishing activities
- Case: Ocean Fresh
- Crosscheck identity (s.a. length: 100m, use measurement tool)



Why tracking shipping vessels in the first place:

- Illegal acts (transshipping, sanction breaking behaviour, illegal fishing)
- Smuggling and human trafficking
- Maritime risk and piracy (dark fleets)
- Economic impact on coastal states

Methodology

- Start with vessel ID (<u>IMO number</u>)
- Access/analyse historical behaviour of vessel (AIS records)
- Check satellite images (open sat platfroms and commercial providers)
- Check human source: Check with people on the ground or on the ship (crew, via Linkedin etc.)

Technical approach

- Info/search on ship ID (MarineTraffic, VesselFinder etc)
- AIS: usually not open source but exceptions for IUU transshipments (<u>Global Fishing Watch</u>, <u>FriendoftheSea</u>, etc)
- Check satellite images (open images s.a. <u>Sentinel 2 images</u> or commercial <u>Planet Labs</u> or <u>Maxar/DigitalGlobe</u>)
- Search authorities or <u>Wesbite to analyse crew on board</u>

Ship-tracking tools/websites

- <u>Inmarsat Ships Directory</u> Find contact details from a ship's name or number.
- Maritime Connector Maritime jobs listings & search.
- <u>Maritime Database</u> Lists and details of shipping-related businesses and ports of the world.
- Ship search & track:
 - VesselsFinder
 - <u>MyShipTracking</u>
 - Fleetmon
 - <u>Shipfinder</u>
 - <u>Marine Traffic</u>
 - CruiseMapper

Illegal rendezvous: Case study Smoking gun with satellite images

• Sentinel browser can reveal illegal meet-ups



What to mind:

- Images might not be recorded (out of range)
- Not recorded on certain days (out of scope)
- Clouds that obscure the view

The pattern

Scale of Covid-19 related content on RT and Sputnik





All news disinformation on Euvsdisinfo's database



Training guide here

Read investigation here

Visual OSINT 101 for journalists:

What story do you want to tell with OSINT findings

- 1. The Chain
- 2. The Pivot
- 3. The Pattern
- 4. Simple verification (or 'attestation')

Visual OSINT 101: Verification from footage

- 1. State/collect/archive raw material
- 2. State obvious facts about the material
- 3. State assumptions
- 4. Verify assumptions with OSINT tools and methods
- 5. Getting stuck? Pivot/change previous assumptions
- 6. Present evidence
- 7. State caveats: any holes in the findings that leave a possibility of a different outcome?
- 8. Any other unexplored avenues?

Visual verification: Geolocate from video

Typical mental approach:

- 1) Establish a list of facts (what can we see?)
- 2) Interpret: Establish hypothesis/questions
- 3) Define the country,
- 4) Define the region,
- 5) Test hypothesis (pivot if necessary)
- 6) Test and verify findings
- 7) Present/visualise findings

Visual verification: Geolocate from video

Technical approach:

- Panorama frame (stitched together via ai, your photo-editing program of choice)

- Reverse image search (Yandex etc.)
- Expert/local knowledge and details
- Background (mountains, colors etc.)

Visual verification: Geolocation

Supporting tools

- Wikimappia (KML data export for Google Earth, <u>another guide here</u>)

http://wikimapia.org/ge.kml

- OpenStreetmap data (for QGIS)
- Google Earth Pro (with timeline slider, measurement tool, <u>overlay</u>)
- Google StreetView (to cross check results, if possible)



Visual verification: 'Chronolocate' from video

Case study

Visible 'facts'

<u>Videolink</u> <u>Tutorial guide</u>

- Long street
- Armed men, in uniform
- Police car or ambulance
- A bank
- A car with a label
- A green gate of some kind
- No divider line on the street
- A traffic light down the road
- Shops opposite camera
- A tree in the background



Shortcuts

- Reverse image search for police car on social media search: Yandex We find new claims that this was shot in Dawei, Myanmar



Right: A screenshot test on Yandex, Left: The results, showing a post for the same video footage



The evidence of using live ammunition in Dawei on Sunday. #WhatsHappeningInMyanmar



Interpret: Hypothesis/questions

- Police uniform indicate which country
- Bank branch indicate possible locations



Show	10 • entries	Search:	awei			
No. 🗢	Branch Name	Address	Township	Division	Contact 🗢	Status ≑
265	DAWEI	No.14, Neik Ban st, Myoetwin Qtr, Dawei.	Dawei	Taninthari	059-23467, 23468 23469	Close
270	DAWEI BRANCH (2)	No(857), Arzarni Rd, Kayatpyin Nort Qtr, DaWei, Tanintharyi Region.	Dawei	Tanintharyi	059- 2021371, 2021374 2021375	Close
Showin	Showing 1 to 2 of 2 entries (filtered from 414 total entries)					

Results: Geolocation

The video was shot from a window facing first south-west and then north-west at the location of the coordinates 14.071372065554256, 98.18962045273268 in the city of Dawei, Myanmar, presumably in the morning of February 28 in 2021, between 8:00 and 9:30 am local time.



Results: Chrono-location

Tools:

- <u>Suncalc.org</u>
- Zoom.earth
- Search operator analysis (timeframe)



<u>Full blog post here</u> <u>Additional guide (Bellingcat)</u>





Suggesting the time is between 8:00 and 9:30am

The shade is at an 30 to 45 degree angle



Visual verification: Geolocate from video

Video footage:

Twitter thread

Claims:

#PoliceBrutality sighted on the streets on Mandalay during broad daylight. Police and soliders beat the defenseless citizens who were peacefully protesting. Dear World, please hear our voice. We are not safe anymore. INHUMAN MILITARY #WhatsHappeningInMyanmar #Feb16Coup

11:52 AM · Feb 16, 2021

Tweet



Han Han @ShweSinHan1

#PoliceBrutality sighted on the streets on Mandalay during broad daylight. Police and soliders beat the defenseless citizens who were peacefully protesting. Dear World, please hear our voice. We are not safe anymore. INHUMAN MILITARY #WhatsHappeningInMyanmar #Feb16Coup

...



11:52 AM · Feb 16, 2021 · Twitter for iPhone

2,550 Retweets 538 Quote Tweets 1,559 Likes

Visual verification:

Reverse search

Bing Images - Can search part of an image by resizing on the fly.

<u>CitizenEvidence</u> - Google Images reverse search on YouTube thumbnails.

EagleEye - Find Instagram, FB and Twitter profiles using image recognition and reverse image search.

Google Images

<u>Search by Image</u> Browser extension to quickly reverse-search an image on 20+ search engines. <u>TinEye</u>

Yandex Images

Reverse images search example



Myanmar students march in Mandalay, Jan. 20, 2015.

• AFP

Around 200 Myanmar security personnel have been deployed along a route used by students marching in protest of a controversial education law they say will limit academic freedoms, drawing concerns from sympathetic residents, sources said Thursday.

The students from Mandalay, who have been marching to Yangon since January, arrived in Magway region's Taungdwingyi township Thursday as part of protests calling for amendments to the National Education Law, passed last September.

They are expected to reach the area's Satth¹/_war village tomorrow, where the security personnel will be waiting for them, said resident Zaw Min Tun.

Use: Google Streetview (loc)



Same 'temple' where Myanmar students march in Mandalay on Jan. 20, 2015 rfa.org







Direction of camera: From South to North Location: 21.899447040310058, 96.08616062650096



Zoom.earth confirms cloudless weather

Visual verification: Geolocate from video

Mountain-ranges

- Geo-tools for mountain range analysis:
- Peakfinder.org
- peakvisor.com
- <u>Udeuschle.de/panoramas/makep</u> <u>anoramas_en.htm</u>
- Cross-check with:
- <u>Sentinel browser 3D</u>
- Google Earth 3D





- Nathan Ruser @Nrg8000 · Dec 27, 2020 This tool, developed by Dr. Ulrich Deuschle and shared previously by @obretix is really very useful in geolocating photos with hills and mountains. udeuschle.de/panoramas/make... Here's it compared to a panorama from somewhere I visted
- today.
- Bonus points if you can geolocate it...



Background: Mountains

Lockpicking Pete | #BLM @LockpickingPete

#Geolocation #Chronolocation #OSINTdojo

can you find out the following things?

Iat. long. of this location
 can you travel with those ships? If so, can you find a schedule and prices?
 can you calculate the time with shadows?

Answers please below the spoiler break!



L ppim and OSINT Dojo





Researching classic landscapist art to train **#OSINT** works. Van Gogh's Starry Night allows to simulate the exact loc: Eastern view from bedroom window sketched in painter's asylum, 1st floor at Saint-Paul-de-Mausole (but painted 2nd-fl with SE view) - Peakfinder & GE, thx @Nrg8000



5:02 PM · Dec 29, 2020 · Twitter Web App

Visual verification: Geolocate from video

Mountain range



Missing hiker example: <u>NYT</u>



Mr. Compean sent an SOS message and this photo to a friend. Los Angeles County Sheriff's Department

Visual verification: Geolocate from video



Visual verification: Geolocate from video

Video:

Local knowledge on peculiarities can play a huge role in narrowing down where a video was filmed

Full investigation here



BILAL SARWARY @bsarwary · Jan 27

#AFG Taliban preparing and arming their own commercial drones laden with bombs, ready to rain on Afghanistan. End this bloodshed now, work for a countrywide permanent ceasefire.



Consumer drone warfare continues in Afghanistan Open-source intelligence from video material offers clues where a video by Taliban soldiers and their DJI drone was filmed.

"There is no other way to bring drones into Afghanistan", E&T is told. Afghanistan border police at Kabul international airport is instructed to seize any drone they see. Smuggling via land from Pakistan - its border is less than 100km further east - seems the most plausible option.

Full

here

investigation





Source/data/intelligence: Twitter; Google Earth, @bsarwary; @CYSECATOM; Analysis: @BenHeubl

Visual verification: Video/images & Exif-data Exchangeable Image File Format

Exiftool Exif Viewer (Firefox/Chrome) FotoForensics Ghiro Jeffrey's Image Metadata Viewer mat2 mat2-web StolenCameraFinder

EXIF data on Flicker is extensive



Impressed by growing value of #Getty for #OSINT journalism. Despite #EXIF data missing, imgs for Jan6 #CapitolRiots & now #MyanmarMilitary protest crackdown provided use-cases. ReutersImages is an altern. Use search operators (below) + advanced search (Rt) guliver.ro/wpcontent/upl...

...

Tips and tricks	WMSHINGTOR, D.C JANUARY Gis Pro-Transp proteetiers gather in front of the LS. Capital Building on January 6, 2021 in Washington, D.C. A pro-Transp nob stormed the Capitol, breaking windows and clashing with police officers. Thung support cris gathered in the rations: capital india to any context the ratification of President electric Job Biden's Electoral College sistary over Prevident Transp in the 2020 Bisection, Photo Ju, and Charry Getty		Standard-Editorial- Rechte Rochte	
Here's some advice on using l	keywords to refine your search.	Imagen)	-	Individuelle Preisgentaltung: Sagen Sie ums einfach, wann, wo und wie Sie dieses Bild nutzen möchten.
Combination of terms The following examples illustrate h	now to combine terms to get more			OPTIONEN WÄHLEN
specific results. These are also kno	wn as Boolean operators:	A State of Continue		IM EINKAUFSWAGEN SPEICHERN
To find images of		and the second	the state of the second	
With both cats and dogs	A space between words (words like AND or a comma)			DETAILS
With either cats or dogs	OR	5.)	Di la	Einscheinkungen: Bei kommenzieller Verwendung somie Kir verkaufsfördernde Zwecke kontaktieren Sie bitte Britistales Birn, Vallständige mitiationarlis Rechte in Gerüffstittannien.
With cats, but not dogs	NOT		** 5.8	USA Infand Kanada (aufler Queterc) Eingenschlankte reduktionelle Rechte für Togeszeitungskanden in allere anderen Ländern Bitte kontaktieren Sie um.
Without people	"Nobody"		Advanced Search	×
That are easy to outline or silhouette	"Cutout"	Free text	Search	Document Date
With eye contact from the model	"Looking at camera"		ALL O IMAGES O GRAPHICS PACKAGES	From dd mm yyyy
Where landscapes are the main focus	"Scenic"	Headine only Headine and caption Photographer	Media Numbers	dd mm yyyy William
That show diversity	"Multi-ethnic group"		You can enter several numbers separated by comma	Color Orientation
Shot in a studio environment	"Studio shot"	All regions *		Block & White Portrait
That have room for text or other images	"Copy space"	Topics Any of the selected topics All the e	elected topics at the same time	Newest first *
That can be used behind text or other images	"Background"	Business Conflict Disaster Elections Environment Foshion	Creative Use Entertainment Health	
Of people that don't look like models	"Real people"	Keywarded Oddy Pics Religion Sci-Tech	 Politics Society 	

11:30 AM · Mar 15, 2021 · Twitter Web App

Visual verification: Video/images & Exif-data

Case-study:

A video from a YouTube channel reveals EXIF data of the people involved in the **trophy hunting** business shown on camera.

Full investigation here

Mattw's tool on YouTube

<u>metadata</u> reveals relevant tags of hunters otherwise would have remained hidden.

Warning: EXIF data can be manipulated, so has to be verified.

34	"tags": [
35	"African",
36	"Safari",
37	"Hunting",
38	"Lion",
39	"Buffalo",
40	"Leopard",
41	"Elephant",
42	"Rhino",
43	"Crocodile",
44	"Hippo",
45	"Cape Buffalo",
46	"African Safari",
47	"African Safari Films",
48	"Safari Video",
49	"Lew Harris Safaris",
50	"Johan Calitz",
51	"Wintershoek",
52	"Johnny Vivier",
53	"Ivan Carter",
54	"Craig Boddington",
55	"Hunting South Africa",
56	"Hunting Africa",
57	"African sun productions",
58	"Mark Sullivan",
59	"Tanzania",
60	"Zimbabwe",
61	"Zambia",
62	"Namibia",
63	"Botswana",
64	"Mozambique",
65	"Kruger Park",
66	"Sable",
67	"Roan",
68	"Dangerous Game",
69	"Plainsgame",
70	"Hunting video"
71	1.

Visual verification: Video/images & Exif-data

Case-study: Capitol Hill riots

- Meta data lat longs of videos uploaded Parler between certain times
- Tools: QGIS, Google Earth

Read full post here

Accurate down to a few meters

The time stamp is the recording time, not upload time.

Visual verification: Geolocation – Using people to lead us to 'secret location'

Casestudy: "Where Boeing tested/displayed its Loyal Wingman aircraft"

Loyal Wingman (image) debut in 'secret location' somewhere in Queensland, AUS, but not specific.

But where? Full investigation here



Aus Defence Magazine

Here are the long lens photos of Boeing's autonomous Loyal Wingman aircraft, spotted out in the open for the first time. Full story - bit.ly/3hjj7Sl



The weakest link: Humans

Staff that reveal the air base



<image>

Anstead, Queensland, Australia · 500+ connections ·

Royal Australian Air Force ... 30 May · @ UP, DOWN, ONE. UP, DOWN, TWO... Group Captain Adam Spinks Officer Commanding Air Combat Electronic Attack Systems Program Office, and his colleagues conduct the push-up challenge on the RAAF Base Amberley flight-line.

We support the participation in the the annual Push-up Challenge which works to strengthen the mental health and wellbeing of young Australians. The event involves teams competing in a 21-day push-up challenge during 11-31 May 2020, with fundraising in support ... See more

 OO● 967
 36 comments 28 shares

 D Like
 Comment
 A Share

 View 22 more comments
 Oldest ▼

 Stephen Porrior Bravo Zulu!
 Stephen View

Ulke - Reply - 26 w
Caron Harbott
Tommy Craig
Write a commen...

C @ @

Checking social media posts



Full investigation here



Spying with connected cams

Technical tools:

- Shodan (use <u>search operators</u> or map)
- Google Earth, Google StreetView



Full investigation

Camera/device ports in London

Location data by Shodan shows finds devices connected in sensitive locations (Status: May, 2021. Note: connections' latitude and longitude change frequently)

Hikvision

Google Maps

Source: T



"Advanced Guide on Verifying Video Content" by Aric Toler

Verification & Analysis resources:

Advanced Guide on Verifying Video Content face_recognition How to verify photos and videos on social media networks InVID Verification Plugin Photo Verification Cheatsheet & Video Verification Cheatsheet Verification 101 Verification Handbook



Aric Toler

Aric Toler started volunteering for Bellingcat in 2014 and has been on staff since 2015. He currently heads up Bellingcat's training and research efforts, with a focus on Eurasia/Eastern Europe.

Advanced Guide on Verifying Video Content

June 30, 2017 Fake News Geolocation

Translations: <u>Русский</u>

One of the most common issues for researchers and journalists is verifying user-generated video content, most often found on social networks and file sharing platforms, such as YouTube, Twitter, Facebook, and so on. There is no silver bullet to verify every video, and it may be nearly impossible to verify some videos short of acquiring the original file from the source. However, there is a range of methods we can use to verify most content, especially as it relates to making sure that videos showing breaking news events are not recycled from previous incidents. There are already numerous guides online for verifying video, most notably in the <u>Verification Handbook</u>. This guide will include some extra quirks frequently used by the Bellingcat team, and make an effort to provide our readers with ways to work around the limitations of the available tools. After reading this guide, hopefully you will not only know how to use this tool set, but also how to use creativity in avoiding dead ends.

ID/Personal verification:

Technical option:

- Reverse facial image search
- (<u>TinEye</u>, <u>pimeyes.com</u>)
- Facial images comparison

(<u>face-api.js; MicrosoftAzure etc.</u>)

- Search operators (name)/social media analysis (what does the person post, how can we link it to other intelligence)



C .alienory

Ben H @benheubl · May 12 The value of #FacialRecognition AI for #OSINT investigations? Testing face-api.js (node JS app is insane) FT used it to expose bias in FR AI. Running experiments with thispersondoesnotexist, some probl. biased on emotions & race. 'BBT Face Similarity' is great. Other usecases?

...



OSINT to track rightwing actors in Europe:

Topics:

- Telegram
- Interlinkages between actors' social media platforms
- Funding: Crypto traffic, donor models ('follow the bitcoin trail')

Visual verification: People

Case-study:

Markus Sulzbacher 🤣 @msulzbacher

Dieses Foto zeigt Küssel, während der Rede von Kickl #w0603 Translate Tweet



6:03 PM · Mar 7, 2021 · Twitter for iPhone

Microsoft Azure 🛛 🗸

Overview Getting started Features Demo Security Pricing

Documentation More \sim Free account

Face verification

Check the likelihood that two faces belong to the same person and receive a confidence score.









OSINT search on new social platforms *Telegram analysis*

Trends

- <u>Move to TG</u> among right wing groups/individuals
- Away from Twitter/Instagram/Facebook
- Parler closed

Read full guide

Telegram analysis

Technical search options

- Google search (advanced search and operators)

- Search (Telegram desktop app)
- Download data from Telegram channel (Json)

Read full guide

Telegram analysis – <u>Guide</u>

Technical analysis/tools

- <u>Telegago</u>
- <u>tlgrm.eu (TG desktop app)</u>
- <u>tgstat.ru</u> (<u>Stats on TOMMY ROBINSON</u>, a British far-right Islamophobic extremist acc. to <u>HopeNotHate</u>)
- <u>Buzz.im</u> (open message and channel search)
- <u>Telegramchannels.me</u> (preview channels without account)
- Run script that reformats data
- <u>Telegram's API</u>/Archive
- Easiest option: Json data channel history download re-formated by hand



Download TG data

×

SAVE

EXPORT

CANCEL

CANCEL

Exporting your data	×
Identitäre Bewegung Deutschland	601 / 1163
Prototyp NDS - Aufstand.mp3	1.1 / 3.4 MB

You can close this window now. Please don't guit Telegram until the data export is completed.

JSON to CSV formatter (online) convertcsv.com

STOP

Telegram analysis: data and network analysis

Case study: Generation Identity

- Download data from Telegram channel (Json)
- Turn into dataframe and search/analyze
- Turn into graph-data (network analysis)



Lambda, the symbol of the Identitarian movement/Identitarianism used primarily in Europe by Generation Identity and occasionally other countries, intended to commemorate the Battle of Thermopylae.

Telegram analysis: Network

Turn CSV into network diagram

Table 2 Net

	Chat name	message ID	Name	ID)	Message text	Message o	date an
0	IdentitaereDeutsch	1267	Identitäre Be	ewegung	Deutschland	**EINE FAIRE DOKU?** Nicht wirklich aber "Vergiftete Heimat", die neueste Doku über sie IBD ist nicht uninteressant	2021/4/17	, 12:9
1	IdentitaereDeutsch	1266	Identitäre Be	ewegung	Deutschland	**Zu Gast: AfD-Troll Roger Beckamp!**Ihr kennt ihn sicherlich von seinen lustigen Antifa-Demo-Besuchen, bei denen de	2021/4/17	, 7:12
2	IdentitaereDeutsch	1265	Identitäre Be	ewegung	Deutschland		2021/4/4,	14:5
3	IdentitaereDeutsch	1264	Identitäre Be	ewegung	Deutschland	Auch einige Patrioten waren in Stuttgart vor Ort und haben den großen Protest unterstützt 🦾	2021/4/4,	14:5
4	IdentitaereDeutsch	1263	Identitäre Be	ewegung	Deutschland	**AKTIONSVIDEO** - GEGEN DEN WIENER SCHANDSTEIN 🕷 Folgendes Aktionsvideo erreichte uns. 🦠 Mittlerweile be	2021/4/1,	11:40
5	IdentitaereDeutsch	1262	Identitäre Be	ewegung	Deutschland		2021/4/1,	6:20
6	IdentitaereDeutsch	1261	Identitäre Be	ewegung	Deutschland	**UNSER LEBEN WAR MEHR WERT ALS DAS**= Uns erreichte ein Bericht aus Wien: 🎙 "Um 06:00 fand in Wien am De	2021/4/1,	6:20
7	IdentitaereDeutsch	1260	Identitäre Be	ewegung	Deutschland		2021/4/1,	5:34
8	IdentitaereDeutsch	1259	Identitäre Be	ewegung	Deutschland		2021/4/1,	5:34
9	IdentitaereDeutsch	1258	Identitäre Be	ewegung	Deutschland	Den heutigen Nachmittag nutzten unsere Aktivisten, um bei herrlichem Frühlingswetter mehrere hundert Flugblätter im F	2021/4/1,	5:34
10	IdentitaereDeutsch	1257	Identitäre Be	ewegung	Deutschland	[](https://telegra.ph/file/0dd7cfa1fee26e86559a3.jpg)**Unser Computerspiel auf dem Index: Wir klagen!**Im Sommer let	2021/3/31	, 13:34
11	IdentitaereDeutsch	1256	Identitäre Be	ewegung	Deutschland	Absoluter Pflichttermin! Haltet euch heute Abend, 19 Uhr, frei. "Laut Gedacht" geht live - seid mit dabei!	2021/3/29	, 10:22
12	IdentitaereDeutsch	1255	Identitäre Be	ewegung	Deutschland	+++ Deutschland im Vormärz +++ Wie vor 200 Jahren nimmt die Zensur in Deutschland von Woche zu Woche zu. Nach	2021/3/27	, 11:2
13	IdentitaereDeutsch	1254	Identitäre Be	ewegung	Deutschland	Nach NGOs sind nun auch Bundestagsfraktionen von willkürlichen Zensurmaßnahmen betroffen.	2021/3/27	, 11:2
14	IdentitaereDeutsch	1253	Identitäre Be	ewegung	Deutschland	**Jetzt bei uns online: Die neue Folge "Laut Gedacht"**Die erste Folge "Laut Gedacht", die nicht auf Youtube zu seher	2021/3/26	, 21:49
15	IdentitaereDeutsch	1252	Identitäre Be	ewegung	Deutschland	[](https://telegra.ph/file/dadaadb3413a4a21c91b9.jpg)**ZENSUR! UND JETZT?**Heute hat es "Laut Gedacht" getroffen	2021/3/26	, 21:48
16	IdentitaereDeutsch	1251	Identitäre Be	ewegung	Deutschland	**BEGEH GEDANKENVERBRECHEN! Protest gegen das ZDF in Hannover, WHO in Bonn und Pfizer in Berlin**Mit ihrer	2021/3/26	, 18:6
17	IdentitaereDeutsch	1250	Identitäre Be	ewegung	Deutschland		2021/3/19	7.46
18	IdentitaereDeutsch	1249	Identitäre Be	ewegung	Deutschland	Wofür in Deutschland der Verfassungsschutz zum Einsatz kommt, wird in Dänem		
19	IdentitaereDeutsch	1248	Identitäre Be	ewegung	Deutschland	[](https://telegra.ph/file/c6e0189c510c9e51ac887.jpg)**Ja, ein Computerspiel w.		
20	IdentitaereDeutsch	1247	Identitäre Be	ewegung	Deutschland	**Zensur, die es nicht gibt?**Wie berichtet man über etwas, was es gar nicht gibt		
21	IdentitaereDeutsch	1246	Identitäre Be	ewegung	Deutschland	**Zeig Globalisten die rote Karte!**Mit Flugzetteln an Haustüren und mit einem B		_
22	IdentitaereDeutsch	1245	Identitäre Be	eweauna	Deutschland			



Load your CSV table

It has to be **comma-separated** and the first row must be dedicated to **column names**.

Choose file No file chosen

Note: you can drag and drop a file

<u>Gephi</u>



Source: Jordan Wildon

1244 Identitäre Bewegung Deutschland

23 IdentitaereDeutsc

24 IdentitaereDeutsc

IdentitaereDeutsc

Telegram analysis: Network

Identitäre Bewegung (IG) Deutschland (channel)



Findings: only a few account are instrumental in sharing posts

Gephi tutorial here

Telegram analysis: data and network analysis

Option: follow methodology for a telegram data science/mining project by Maximilian Bundscherer

🖵 maxbu	a maxbundscherer / telegram-analysis						
<> Code	① Issues 입어 Pull requests	🖓 Discussions 🕑 Actions 🔅 S	ecurity 🗠 Insights				
66	master - 🖓 4 branches 🔊 1 tag	I	Go to file Add file ▼				
0	maxbundscherer improve htdocs		✓ 1dd4be0 on 17 Apr 🕚 679 commits				
	docker	fix docker and Ida bug	3 months ago				
	docs	improve htdocs	last month				
	notebooks	fix paths	2 months ago				
ß	.gitignore	run	5 months ago				
	LICENSE	improve	5 months ago				
	README.md	improve htdocs	last month				
	Thesis.pdf	fin	2 months ago				

OSINT to track virtual money streams: Case study: <u>GI & Martin Sellner</u> (<u>BBC</u>)

- Generation Identify, a larger EUwide Neo-Nazis movement
- Large groups developed in France, Germany and Austria
- Increasingly, appealing to the young
- Offer donors crypto donations (BIC)





...

List of all the banks/platforms Martin has been banned from.

Folgende Plattformen un	d Zahlungsdienstleister haben mich bereits dauer	haft gesperrt:
	PayPal.	
	Patreon,	
	Facebook,	
	Instagram,	
	Gofundme,	
	Kickstarter,	
	STRIPE,	
	Bitpanda,	
	Twispay,	
	Go Cardless,	
	Maxpay,	
	Mollie,	
	Mailchimp,	
	Sendinblue	
	Raiffeisen Bank,	
	Raiffeisen Bank	
	Bank Austria,	
	Monese Bank,	
	Ferratum Bank,	
	Austrian Anadi Bank,	
	N26-Bank,	
	RevolutBank,	
	Holvi-Bank,	
	Fidor Bank,	
	Kontist-Bank,	
	Deniz-Bank,	
	Hello Bank,	
	Tatra-Bank,	
	Oberbank,	
	BUNQ.	
	Tomorrow Bank,	
	Dadat Bank	

OSINT and Bitcoin transactions: GI

- Search for old BC: <u>Bitpanda</u> (archived)
- Searching Bitcoin wallets: <u>WhosWho</u>
- New Bank accnt: Hungarian bank (<u>Calcualator.com</u>)
- \$102,872 in BCCoin
- <u>Bitcoinabuse</u> analysis



Martin Sellner

Die Zensurmafia greift alle meine Plattformen an. Helft mir gegen sie zu bestehen und verbreitet diese links:

Hier könnt ihr meine Arbeit unterstützen:

🙏 Monatlich unterstützen

₿ Via Bitcoin

Martin Sellner

IBAN: HU85 1177 5379 5858 6882 0000 0000

BIC: OTPVHUHB

e63aa6864b122912c45bde0642b7a3036181e2ac2c79870d9f98fc99dbb423ef				2020-07-06 03:0
36w6EyF9RLqXDntGVvjfXt11bf6NgYWpwS	+	3DdBZ734DjaqBf29PvjxWV9mvU6VaQEs8H 3E7vHYrWJaCi7hzhDSs1Ti6hC9UDaeC4hZ 3M49byha3x8fJVzV3TCpK3HmDm6Zgeb6G2 3LfUC7ZoqD1VTLXcWQAghsk1U6eKACutF5 1KYEwodFHZV1MeSSq3xFdGDfJBuB3J9qSj 3D8ZQHNfNrxr9SjzAMN73wTnYfEHiBdqC3 3MtZnNbTrwLdtx5Fu4fhjirDW5LPnFR283 3CtuECxYqTg52dv1viVkEsdAab3qb8YSCW	[http://Cryptoexploit]	0.1754461 20.0000000 0.0557929 0.00517772 0.36605712 0.00253743 0.00584247 0.00594000 0.00602993
0a910064945a909283dbbbda3a947ada6d92f139cbf39f12b714c68207ec605c				2020-07-06 02:
1Mowps6xmhAHYQqohT6Z7vX6wXVCiXMFFu 1EPSsno265RTtgcKfqUeZMU7RxE1NPZtSK	+	36w6EyF9RLqXDntGVvjfXt11bf6NgYWpwS		0.00121100
cc7bc4e4b0d39c2aa78c41763e8a24d44a400c196ccfb42a535f17b742c7818e				2020-06-04 01:
36w6EyF9RLqXDntGVvjfXt11bf6NgYWpwS	→	3DdBZ734DjaqBf29PvjxWv9mvU6VaQEs8H 1CqNbJbFiR46KnhfvjM4EQ1vDQeCqL7rXh 33hqbweb4riN6ATiggLYBQYn8NQehjhHEa 3Bxp3qd89dPtSb5MUieSX9Zy3HT3PJFv2s	[http://Cryptoexploit]	8.7536178 0.0186200 0.0019005 0.0280000 0.2997746
4e7e6680bcc08d8c8fa6fea407afa9d6b0a69204d662e3f1e6a61f858982edec				2020-06-03 23:
1JGzmcmYULBG8Sj6TtwY14bc4hHZPpDE7V	-	36w6EyF9RLqXDntGVvjfXt11bf6NgYWpwS		0.0012500
c27aa4908cfffd5bf87f7adfc14e5a7f17c671023df834026c055bf8db802350				2020-05-02 07
36w6EyF9RLqXDntGVvjfXt11bf6NgYWpwS	→	3DdBZ734DjaqBf29PvjxWv9mvU6VaQEs8H 34pxoykTJt3pLHRiXmtERMRAmbKyaCyD7w 38ZzBZMdjHRWFUvA5yYZ78Z4ZSfY8yXrZB 3No75NkXoYb58FJrWGGb6J8rRARZDEgzH3 3Mo5e5YhXasPEmB6FQvmmfnsErePNLa6mT 1FJ3CPrhEjGDbTevj5kGf1BmmogewWGorC	[http://Cryptoexploit]	9.7248076 0.0425873 0.0049344 0.0025478 0.0392585 0.0053716
1feb28866ce8fafd8e8fe94da044799a560c55051abdecde88c5e5b3e6daccea				2020-05-02 07
1KzPPBRpBWWAAcRyNPBMc2BxbdzwBS4gL	-	36w6EyF9RLqXDntGVvjfXt11bf6NgYWpwS		0.0012500
6977361906d10d9df159e1461ce326760cc59e6be83785aeb2719a6f0e7775ae				2020-04-05 12
36w6EyF9RLqXDntGVvjfXt11bf6NgYWpwS	+	3DdBZ734DjaqBf29PvjxWv9mvU6VaQEs8H 35u8MEzoBqVFyr3rjFL3z8XJTyPfJdG6yt 1Gq2ip3E5Nxb4LFSAA9C4GMJg9pa96QjZp 36J7NTNNrGWq6iMmStcMyqueBBWrbs7OSi	[http://Cryptoexploit]	5.2707883 0.0055221 0.0230000 0.0148460

Bitcoin

records

transaction

Read thread here

OSINT and Bitcoin transactions: GI

BITCOIN ADDRESS REPORT Scam Alert: None

Natch

BTC Address	36w6EyF9RLqXDntGVvjfXt11bf6NgYWpwS	# Website Appearances	0	
Wallet Name	-	Last Transaction IP	-	
Current Balance	0.00000547 = \$0.28	Total Received	1.99898109 = \$102,984.77	
# Transactions	227	# Output Transactions	111	
First Transaction	20 Mar 18	Last Transaction	15 Feb 21	
Last Known Input	Loading Loading	Last Known Output	Loading Loading	8
Repeated Inputs From		Repeated Outputs To	3DdBZ734Dj 14	
(50 most recent transactions)		(50 most recent transactions)	39dk7jM6Hz 10	

Transaction History

Tracking right wing visual markers with OSINT

OSINT to analyse

- Merchandise
- Clothing
- Hand signals
- Symbolism
- Fonts
- Signs

Read training post here

Yandex | W Uploaded image ×





theright to

theright to

Get It

Get It



Credit: Jim Urquhart/Reuters; Sidenote: here an interesting <u>Twitter thread by Scott Railton on the person with</u> the orange hat in the building



OSINT and social media identities: StandUpX

• Username analysis allows us to gather intelligence on how individuals jump from platform to platform. Research on UK Telegram group, a StandupX, a larger anti-lockdown movement that was banned from the conventional platform of Twitter and Facebook, moved to new, alternative platforms. OSINT allowed to understand who administrators are who how they orchestrate the groups in the background



OSINT and social media identities: StandUpX



The 'Elaine (UK)' aka ToxicBear handle is found on other platforms

HOME > STANDUPX



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Read investigation here

New satellite source: RF

• RF signals emitted by ships through their navigation radars and radio communications

Read training posts here





New Satellite source: SAR

 Synthetic Aperture Radar (SAR) imagery.
 SAR data is microwave data sent by an active sensor.

Read training posts here



SAR image example: Image of Aksum Airport (in the northern Tigray Region of Ethiopia), captured during the Tigray conflict when the Tigray People's Liberation Front sabotaged the runway before falling to federal forces. Smooth tarmac absorbs radar energy and dirt from the trenches dug across the runway are much brighter in comparison (Capella).

Illegal wildlife trade: what is it?

- Elephant ivory, illegal trophies, live-animals
- Traded on online auction sites (eBay, Facebook)



Replying to @benheubl

[2] UK's **#ivory** online trade remains buoyant & online portals like **#Ebay** find it hard to remove **#ivory**-made listings s.a **'#netsuke'**. Researchers say it's possible to identify Elephant ivory by checking for **"#Schreger** lines", a unique pattern we can use for **#OSINT** work



4:01 PM · Mar 16, 2021 · Twitter Web App

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Useful links

- Brazell (Book)
- Bellingcat:
- <u>https://docs.google.com/spreadsheets/d/18rtqh8EG2q1xBo2cLNyhIDuK9jr</u> PGwYr9DI2UncoqJQ/edit#gid=1130825724
- Ben Strick
- <u>https://benjaminstrick.com/geospatial-awareness-how-to-add-data-to-google-earth/</u>
- Resources DDJ
- <u>https://github.com/r3mlab/datajournalism-resources</u>
- OSINT resources:
- <u>https://intelligence.is/open-source-intelligence-osint-tools/</u>

Thanks

Connect on Twitter via @BenHeubl