Day 3 Social Media, Geolocation, and Imagery

1. People Search Engines

- **Use these engines to search on: Names, Addresses, Phone numbers, User names/Social Media**
- **Some sites may show free info about your targets**
  - peekyou.com
  - thatsthem.com
  - truepeoplesearch.com
  - cubib.com
  - zabasearch.com
  - radaris.com
  - 192.com (UK)
  - Infobel.com (EU)
  - emailrep.io — Checks details about an email address, including: Is it a valid email?, Is it on blacklists?, Does it have social media accounts associate to it?
- **Paid ConsumerLevel People Search Engines**
  - pipl.com
  - intelius.com
  - spokeo.com
  - beenverified.com
  - skopenow.com
- **The top three companies were**
  - 1. tracersinfo.com : Many a la carte options to choose from
  - 2. tlo.com : Reliable data
  - 3. irbsearch.com : More comprehensive and reliable data

2. Facebook Analysis

- **Facebook IDs: entity_id, page_id, group_id**
- **Use Facebook filter**
- **Sowdust** — Filter Creation Tool: Web form that helps you craft details, filters, and searches for Facebook
- **Use: Facebook Directories**
- **Facebook Resolving Email to Account**
  - Make Facebook to resolve an email address into a Facebook user account using page roles
  - Then After account appear inspect element and Get Profile ID
- **Facebook Ad Library** — This application will retrieve active and inactive ads with the term

3. LinkedIn Data

- **Dork** — site:linkedin.com NAME intitle:professional
- **LinkedIn breach data**
- **LinkedIn Open Networkers1 (LiONs)** — someone have multiple connection
- **Exporting LinkedIn Contact Data, Remember those LiONs? can get all data**
  - 1. Visit the Linked in download web page as a loggedin user.
  - 2. Request archive of your data by clicking the button on the screen.
  - 3. An email with a link to a ZIP file will be sent to the account that you use for LinkedIn.
  - 4. Click the link in the email and download the ZIP file.
  - 5. Decompress the file and extract the Connections.csv file.
  - 6. Open this CSV in your favorite text editor or spreadsheet application (Google Sheets, Excel, Calc, etc.)
- **The booleanstrings.com web site has become a terrific resource for OSINT analysts looking to stay current on the inner workings of LinkedIn.**
- **Look Up LinkedIn Accounts by Email** — https://www.linkedin.com/sales/gmail/profile/viewByEmail/EMAIL

4. Instagram

- **The OSINT Curious Project pooled their knowledge and wrote two indepth blogs about how to examine, scrape, and store data from Instagram.com.**
  - https://www.osintcurio.us/2019/07/16/searchinginstagram/
  - https://www.osintcurio.us/2019/10/01/searchinginstagrampart2/
- **Offline Viewing of Public Content**
  - https://stalkerstories.com
  - https://piknu.com
  - https://www.pictame.com
- **Instagram User IDs**
- **Helper Tools for Instagram: Google Chrome extension**
- **Instagram Business Accounts: Get mobile and email By two method**
  - Instagram mobile
  - API — https://i.instagram.com/a pi/v1/users/#/info/
- **Stalkture.com analyzes Instagram profiles AND reveals helpful data to us**
- **Retrieving Instagram Images: Google Chrome extension downloads user media**
- **Finding the friends or connections for private accounts By Google Dorks and open posts that user comment on it.** — site:instagram.com "USERNAME
- **Searching for Hashtags and Locations: by Insta search filter.**
- **Searching for Keywords by dorks** — inurl:instagram.com/p/"ADD KEYWORD
- **Searching Inside Instagram Bios** — https://searchmy.bio
- **Download All Public Instagram Posts by Tools**
  - Instagramscraper scraper comments includelocation maximum 20 ADDUsername
  - Instaloader comments stories tagged c 10 ADDUsers

7. Imagery and Maps

- **Three categories of imagery**
  - 1. Satellite: Google Maps, Bing Maps, Yandex Maps
  - 2. Aerial/Bird's Eye: These images are taken from planes, drones, and other flying machines.
  - 3. Ground
- **Maps Web Sites**
  - https://www.mapillary.com/
  - https://www.openstreetmap.org/
  - https://Wikimapia.org/
  - Google Earth
  - Google Maps
  - Yandex Maps
  - Bing Maps
  - Suncalc.org
  - Similar Calculation Sites
    - mooncalc.org
    - andrewmarsh.com
- **Mapping web applications can assist our OSINT work by**
  - Measuring distances between objects/locations
  - Helping us validate metadata, images, and videos
  - Allowing us to go back in time and view a location across multiple months or years
  - Going Back in Time
- **Imagery Analysis Practice and Tips**
  - Traffic Cameras: Many of them are open for public use
  - WorldCam.eu Webcams
  - Insecam.com: GPSlocated cameras, Streaming images
  - Remote Recon of Airwaves
  - https://www.broadcastify.com — Listen to radio frequencies through our web browsers

5. Twitter Data

- **OSINT content from Twitter:**
  - Account bio/URL/location
  - Connections between targets
  - Patterns of behavior
  - Pictures/videos
  - Geotagging
  - Sentiment about a topic
- **Twitter Searches**
  - 1. Simple
  - 2. Advanced — https://twitter.com/searchadvanced
- **Twitter Search Tricks**
  - Twitter Like a Pro
  - Dutch OSINT Guy's OSINT
  - Twitter Cheat Sheet
- **Twitter APIs** — DOCs
- **Twitter User Analysis**
  - **Patterns of behavior**
    - Sleeping
    - Drinking alcohol
  - **Hobbies/Interests/Work/Leverage Points**
  - **Friendships/Relationships**
  - **Emotional states**
  - **We can leverage thirdparty sites to do this work:**
    - AnalyzeWords.com: Analysis user emotional by analysis user word
    - By sleepingtime.org (check User sleeping and web site will analysis it) — http://sleepingtime.org/TWITTERACCOUNT
- **Social Bearing**
  - **Social Bearing** — Provides twitter authenticated and unauthenticated searches and analysis, we can perform user search and analysis
  - **Twopcharts** — Twitter User Analysis, Does not require an API or authentication
  - **Followerwonk.com** — website helps analysts understand what accounts are either following certain Twitter accounts or are being followed by those accounts.(followers or who they are following)
- **Geolocation**
  - **Twitter Geolocation** — Users can geolocate images, with a latitude and longitude or city name and a certain distance, you can craft search parameters to examine a region
    - near:location within:#[km/mi]
    - Ex: near:riyadh within:15km
  - **Twitter Search for a Location with Keyword** — marijuana OR weed near:london within:15km filter:images
  - **geosocialfootprint.com** — Tracking a Twitter User: This site plots those places he tweets from on a heatmap
  - **One Million Tweet Map** — Another site to watch location sentiment, Enter keywords or hashtags and view tweets from a particular area
- **Recovering Deleted Tweets** — By search by this URL "https://twitter.com/Add_UserName/" in Archive.org we can get user (finnex) deleted tweets
- **DMITCAT** — DMITCAT (Digital Methods Initiative Twitter Capture and Analysis Toolset) System for collecting and storing the tweets and Gephi for visualizing the data, he demonstrates some excellent techniques for longer term Twitter content collection and analyze
- **Check Account if bot or not (Bot and Propaganda Analysis)**
  - Web applications [makeadverbsgreatagain.org] analysis based time.
  - Scripts you need to download and run locally
- **TweetBeaver** — Link with your account API to get variety of excellent options for researching Twitter data, accounts, and intersections
- **Tinfoleak Script**
  - Python script with GUI!
  - Requires Twitter API keys (you provide)
  - Excellent features and exporting of data
- **TWINT Twitter Intelligence Tool**
  - Is like a commandline interface to search and retrieve content from Twitter
  - twint year 2016 s brexit csv o out.csv
  - How to use Twint as an OSINT tool

6. Geolocation

- **Introduction**
  - Get Info about Image location, video location and others
  - The full article of this geolocation event is newyorker.com and image below is from breitbart.com
    - newyorker.com
    - breitbart.com
- **Mobile Apps Love to Geolocate**
  - - Dating apps (Tinder) Exercise apps (Strava)
  - - Drinking apps (Untappd)
  - - Geolocation apps (Foursquare)
  - - Social apps (Facebook)
  - - Echosec.net Paid Social Media Platform: Can investigate user accounts, hashtags, geolocated content, and more
- **Strava's Activity Heatmap**
  - Is aggregation for exercise heatmap
  - - While you may need to be authenticated to the Strava app to view this data, each athlete has a profile page that sometimes tells where they are from, their full names, and other places that they exercise, and the profile page may have pictures.
  - - Go to the heatmap
  - - Go to a desert
  - - Look for bright spots
  - - Turn on satellite view
  - - Investigate
- **Geolocation Helper Sites**
  - **- Examples include:**
    - - Transforming GPS cords (Ex: min sec -> decimal)
    - - Drawing a virtual circle of X km around a location
    - - Figuring out the boundaries of a location (city, village, etc.)
- **FreeMapTools**
  - - Calculate area of shape you draw
  - - Radius around point
  - - Measure distance from one point to many
  - - Draw concentric circles on map
  - - International Center of Gravity
- **MapDevelopers.com**
  - - Calculate area of shape you draw
  - - Elevation Calculator
  - - Radius around point
  - - Geocode Tool
  - - Batch Geocoding
  - - Mileage Calculator
- **GPSVisualizer**
  - - Converting GPS codes to various formats
  - - Bulk GPS encoding