

Abstract geometric lines and polygons in the top-left corner of the slide.

OPEN-SOURCE  
INTELLIGENCE  
(OSINT)

# OSINT PRESENTATION

Definition


Techniques

Use Cases

Data Gathering

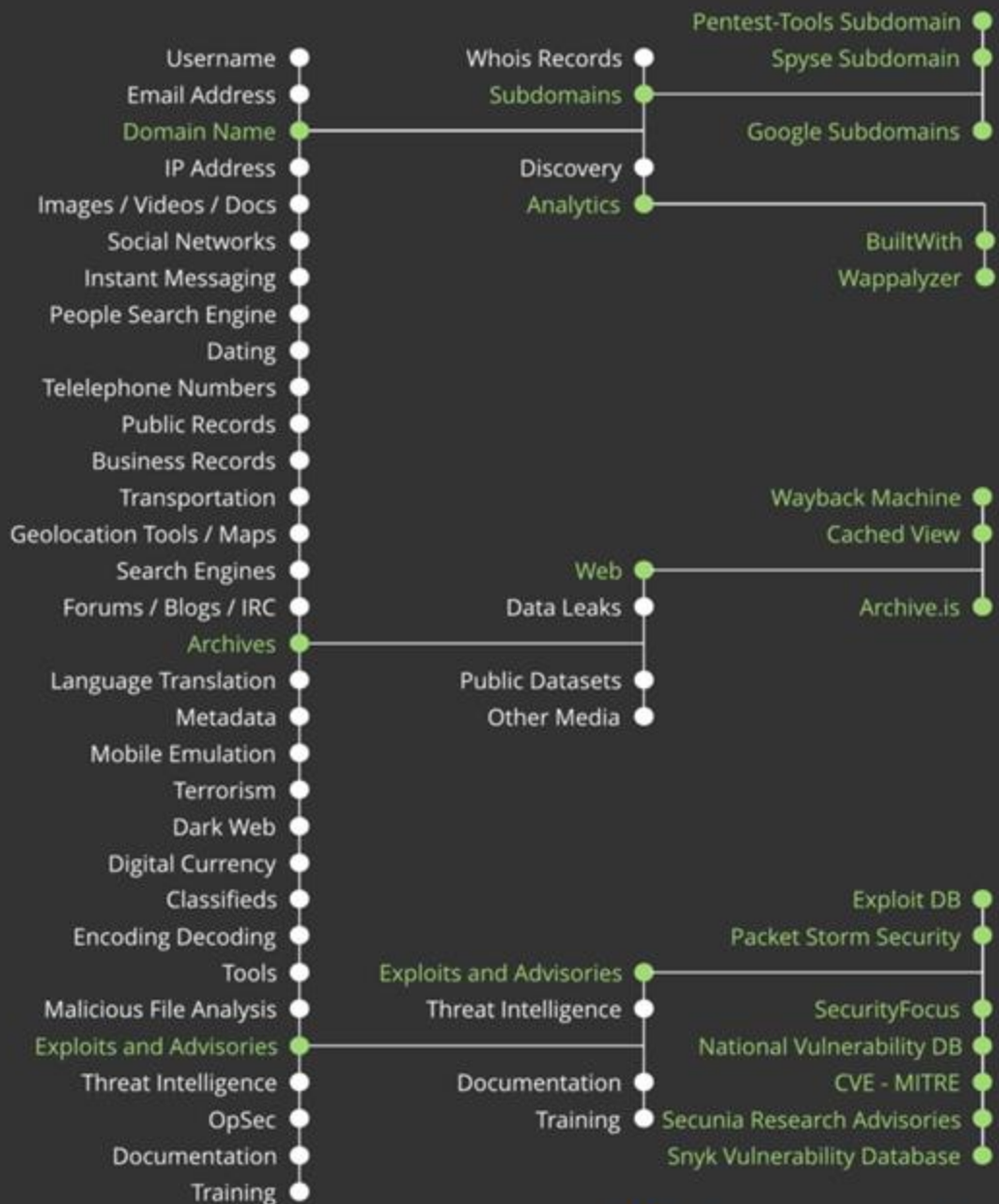
Keyword Searching

Geolocation



OSINT IS THE  
PRACTICE OF  
COLLECTING AND  
ANALYZING  
INFORMATION  
FROM PUBLICLY  
AVAILABLE  
SOURCES TO GAIN  
KNOWLEDGE AND  
INSIGHTS  
REGARDING TOPICS,  
INDIVIDUALS, AND  
ORGANIZATIONS TO  
NAME A FEW.

# OSINT Tools for Analyzing Organisations



# TECHNIQUES AND TOOLS

Many tools are on the market regarding OSINT. Combining multiple tools at once could lead to better outcomes. Here are a few:

Techniques:

- Passive Gathering
- Keyword Searching
- Geolocation

Tools:

- OSINT Framework - is a crucial web-based tool for researchers, organizing open-source intelligence resources by source, type, and context.
- Google Dorks - offer specialized queries that harness Google's vast indexing to aid in security investigations.
- theHarvester - used to gather information about subdomains, virtual hosts, open ports, and email addresses related to any company or website

# USE CASES

This is only a small sample of many use cases.

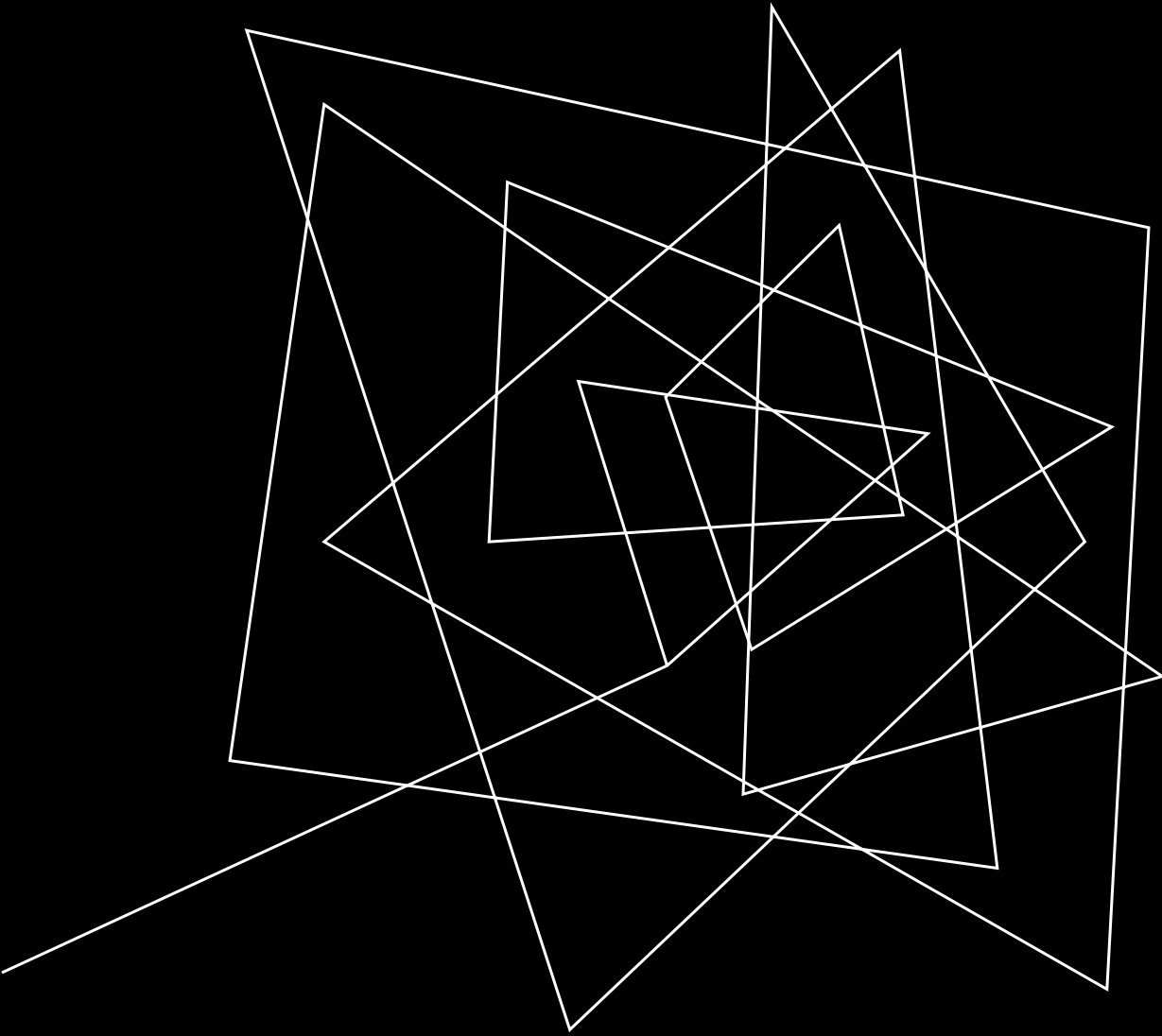
- **Fact-Checking** – Journalists, researchers, and consumers can use OSINT to check sources for verifiable information
- **Vulnerability Assessment** – Identifying vulnerabilities and assigning a severity levels based on factors applying to individuals/companies.
- **Geolocation** – Available location data, can be used to find individuals or to verify accuracy of images or videos.
- **Background checks** – OSINT can help fill in blanks for agencies who want or need to know more information about a person.

# DATA GATHERING

Data gathering is comprised of two forms. Active and passive. This technique can be important to all three of the use cases we listed.

Passive gathering using OSINT is gathering data from public websites where there are no login credentials required.

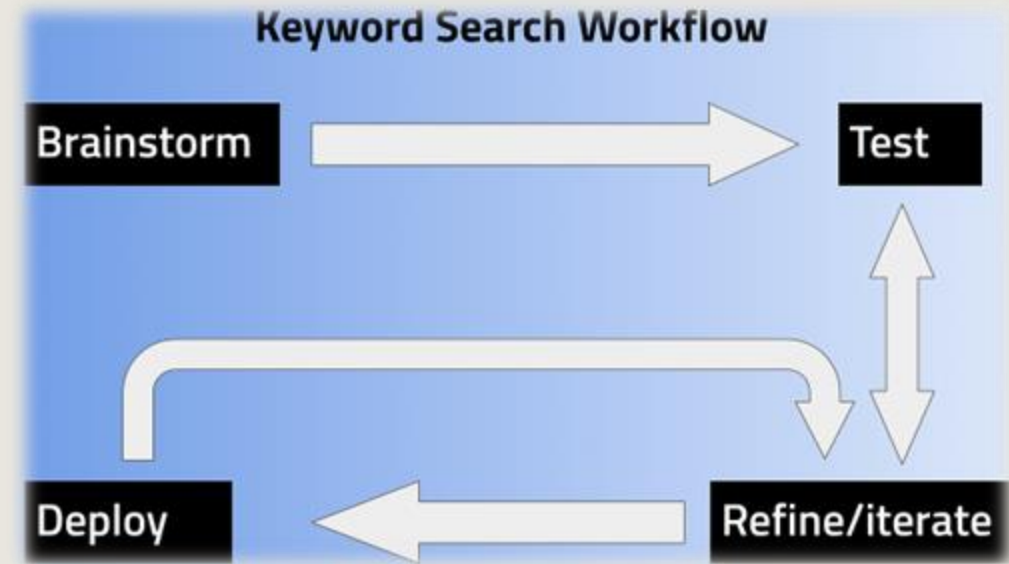
An example of active gathering using OSINT would be facing a login screen and creating an account to continue web scarping.



## KEYWORD SEARCHING

While this approach could be a generic term, it is a valuable technique regarding OSINT. Keyword searching **specific** events, **different parts of speeches**, or even **hashtags** can reveal crucial information. Even searching **misspelled words** can unveil information.

This technique could be especially useful for FBI agents uncovering potential motives for criminals.



# GEOLOCATION

Utilizing geolocation as a technique for OSINT could be use for law enforcement agencies, private investigators, and journalists. This technique is important regarding OSINT because it can uncover truths in location, satellite images may show details that will undeniably confirm investigations.

This approach is the process of identifying real world geographic locations of persons, places or things. This information could come from items like the GPS and publicly available information.



A series of white, thin, overlapping geometric lines on a black background, creating a complex, abstract pattern on the left side of the slide.

# THANK YOU

Wesley Essex, Coble

Tonya Orto

Erajah Scypion

# REFERENCES

## OSINT Essentials

<https://www.osintessentials.com/top-10-keyword-search-tips>

## Basics of Geolocation for OSINT

<https://library.mosse-institute.com/articles/2022/07/the-basics-of-geolocation-for-osint/the-basics-of-geolocation-for-osint.html>

## OSINT Tools

<https://traversals.com/blog/osint-tools/>

## OSINT use cases

<https://www.linkedin.com/pulse/osint-use-cases-nrich-data-solutions-riisf/>

## 10 tips for effective keyword searches

<https://osintessentials.medium.com/10-tips-for-effective-keyword-searches-a04433e08422>

## Defining Active vs. Passive OSINT

<https://ntrepidcorp.com/managed-attribution/defining-active-vs-passive-osint/>

## Nsight series Geolocation OSINT

[https://www.afcea.org/signal/resources/content/Ntrepid\\_Nsight\\_Report\\_9\\_Geolocation\\_OSINT.pdf](https://www.afcea.org/signal/resources/content/Ntrepid_Nsight_Report_9_Geolocation_OSINT.pdf)

## Imperva OSINT

<https://www.imperva.com/learn/application-security/open-source-intelligence-osint/>