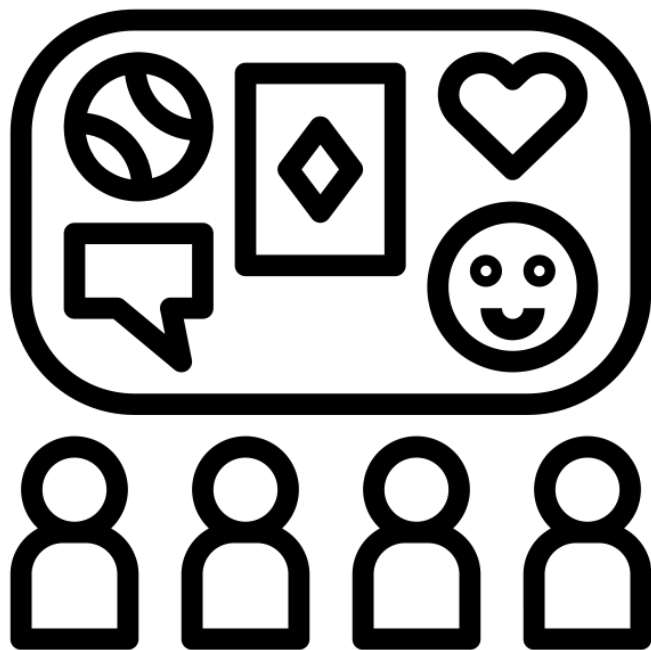


Money Trail

Digital safety & security



Welcome!

Training overview

Risk Assessment

What to protect?

Protect from what?

How to protect?

Security Measures

Information Safety

Communication
channels

Standard Operating
Procedures

Security Measures

Security Tools

Passwords &
Encryption

Operational & Mobile
Security

Analysing measures

Risk assessment

Time slot indication

.... h - h

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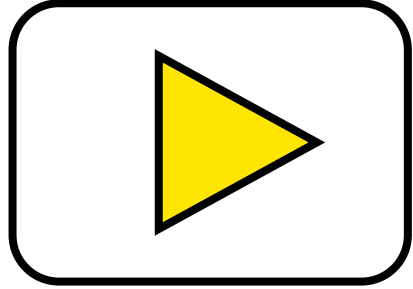
Security Tools

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Analysing measures

Why carry out a risk assessment?



Why carry out a risk assessment?



Risk assessment training

The goal

To assess digital security on a personal and professional level

The method

Based on a case you will work together to understand possible dangers during an investigation

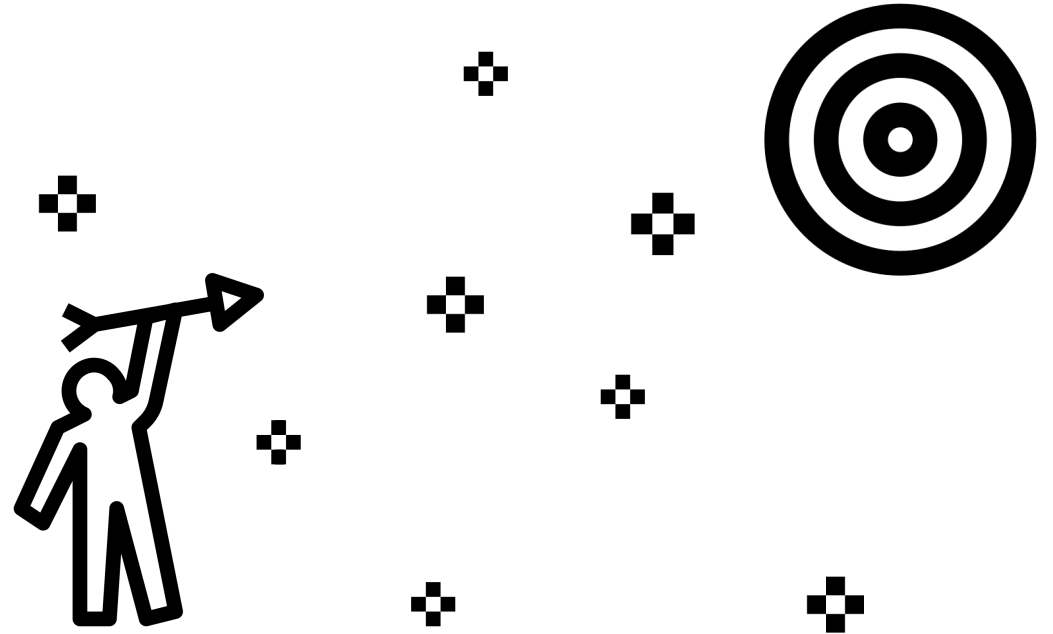
Welcome to Deltora Magazine

Roile River Delta Case

Life in Petronia

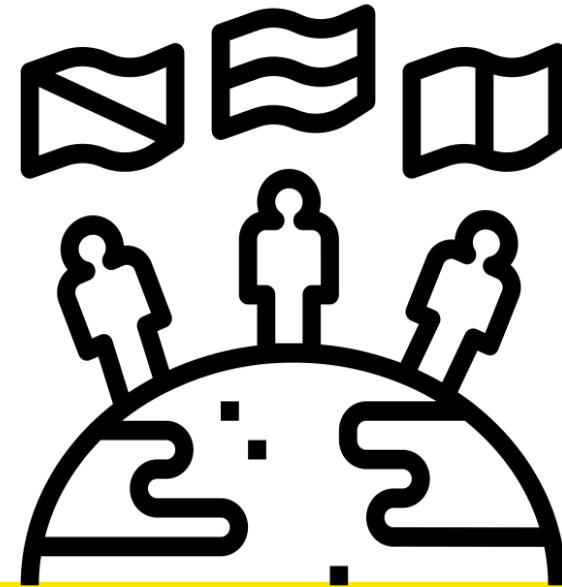
**FREE
PRESS**
UNLIMITED

Your aim

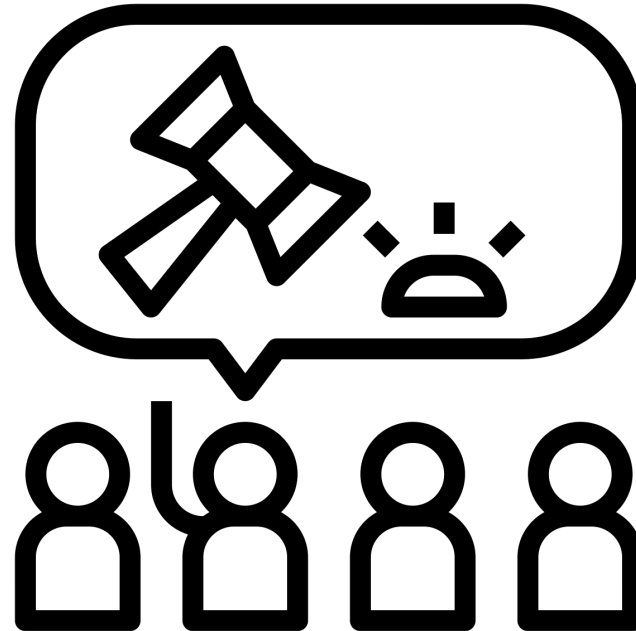


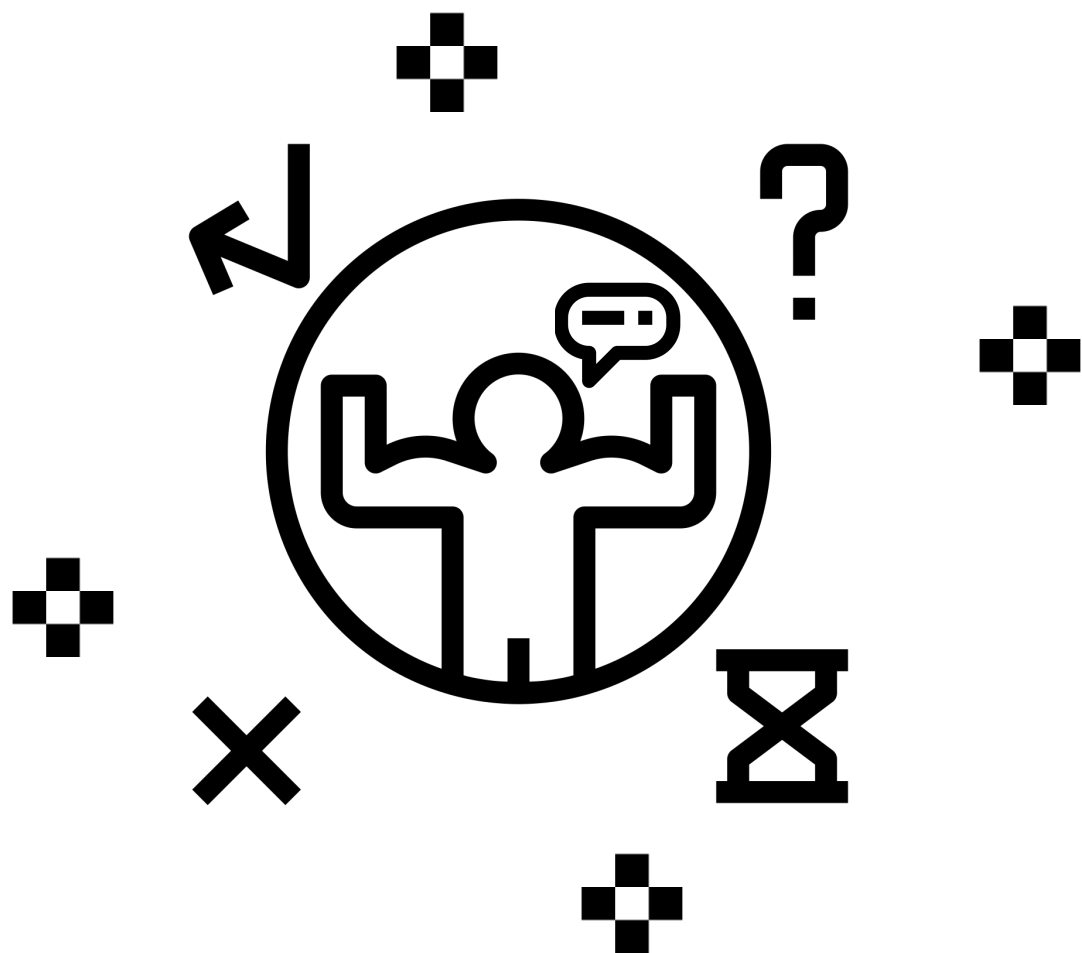
Your team

- An experienced journalist
- A foreign journalist
- An ambitious newbie
- A consulting expert
- An activist
- The editor-in-chief



Investigative proposal

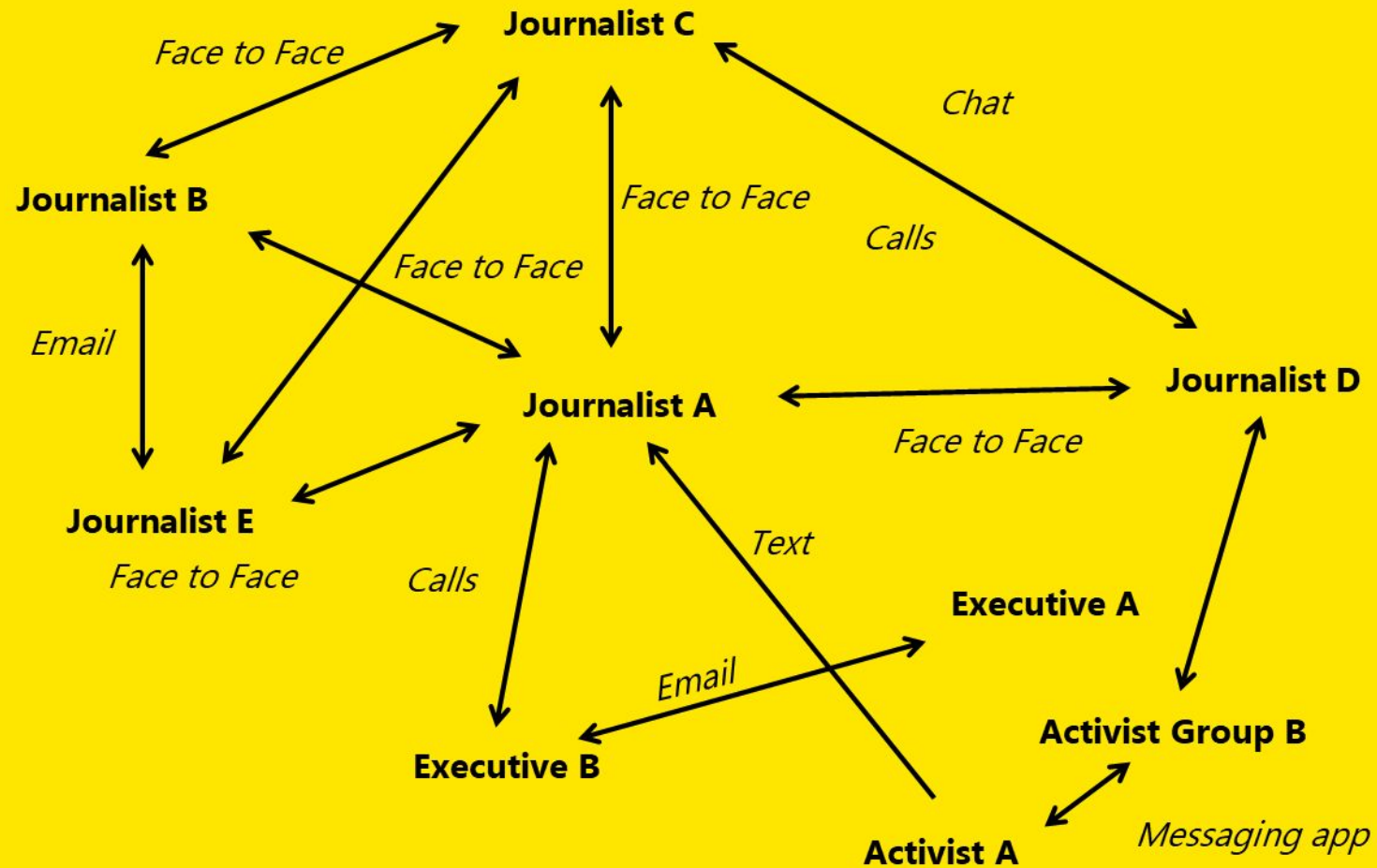


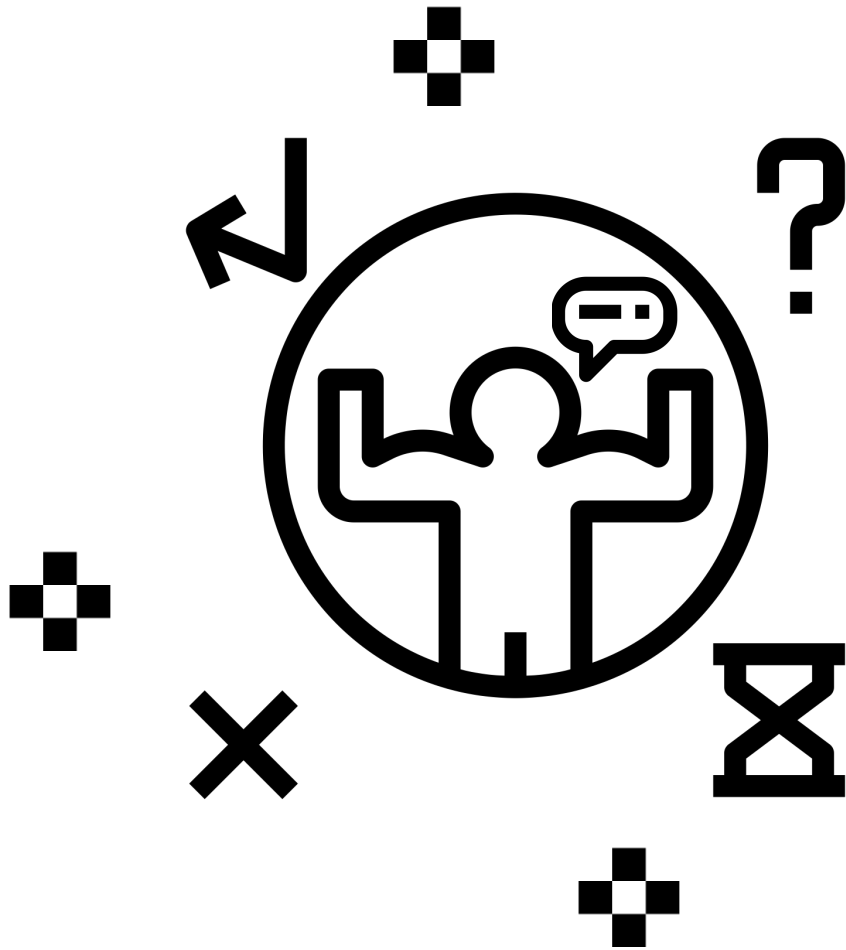


What to protect?

Example of Actor Network with possible adversaries/ capabilities

*Not representative for Petronia case





- Who is involved in the investigation?
- Which data and information is processed by actors as part of the investigation?
- What devices are being used?
- How sensitive is this data or information?

Actors: Who is involved in the investigation?

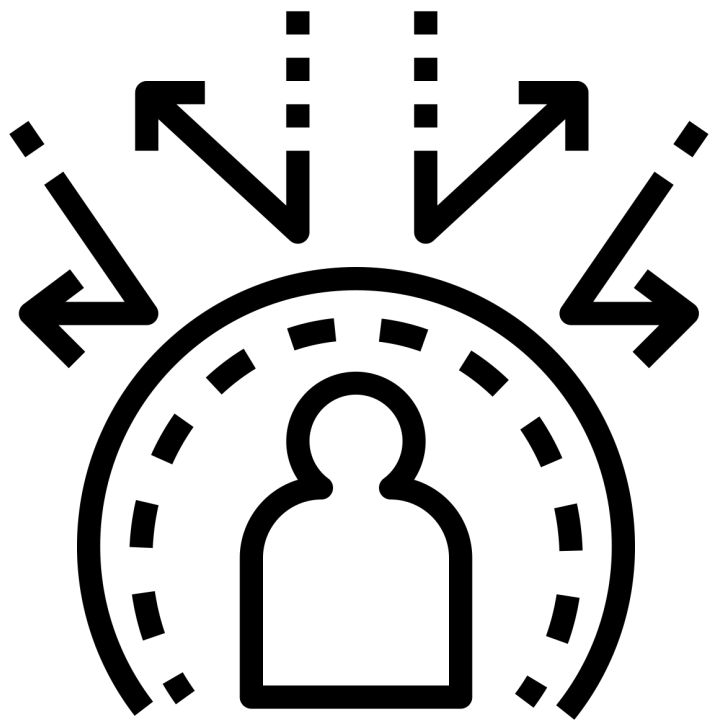
***Everybody** that you work with and need to successfully conduct your investigation.*

Assets: Which data and information is processed by actors as part of the investigation; how sensitive is this data or information; what devices are you using?

***Everything** that you work with and need to successfully conduct your investigation.*

Activities: How is this data and/or information obtained, communicated, processed, published, etc?

***All** you journalistic or investigative workflows and processes*



Protect from what?

Example of Actor Network with possible adversaries/ capabilities

*Not representative for Petronia case



Adversaries:

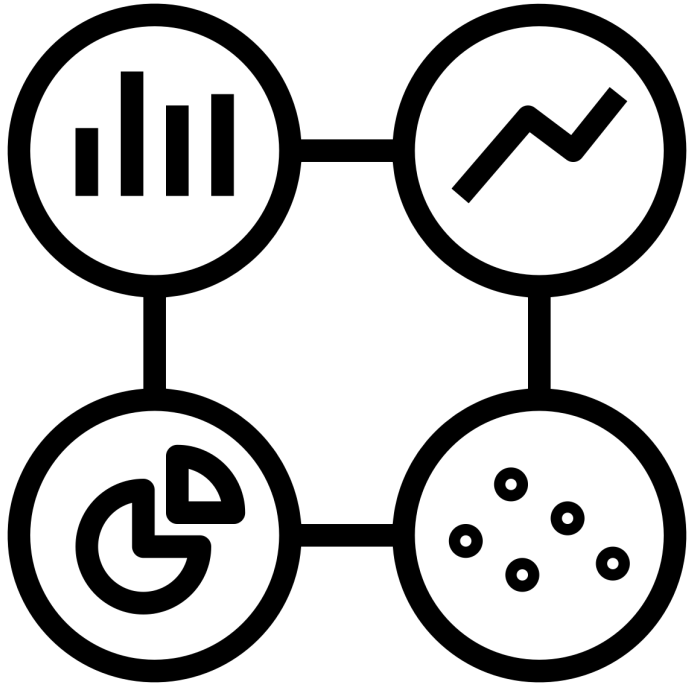
People or organisations that have an interest to influence or stop your investigation.

Capabilities:

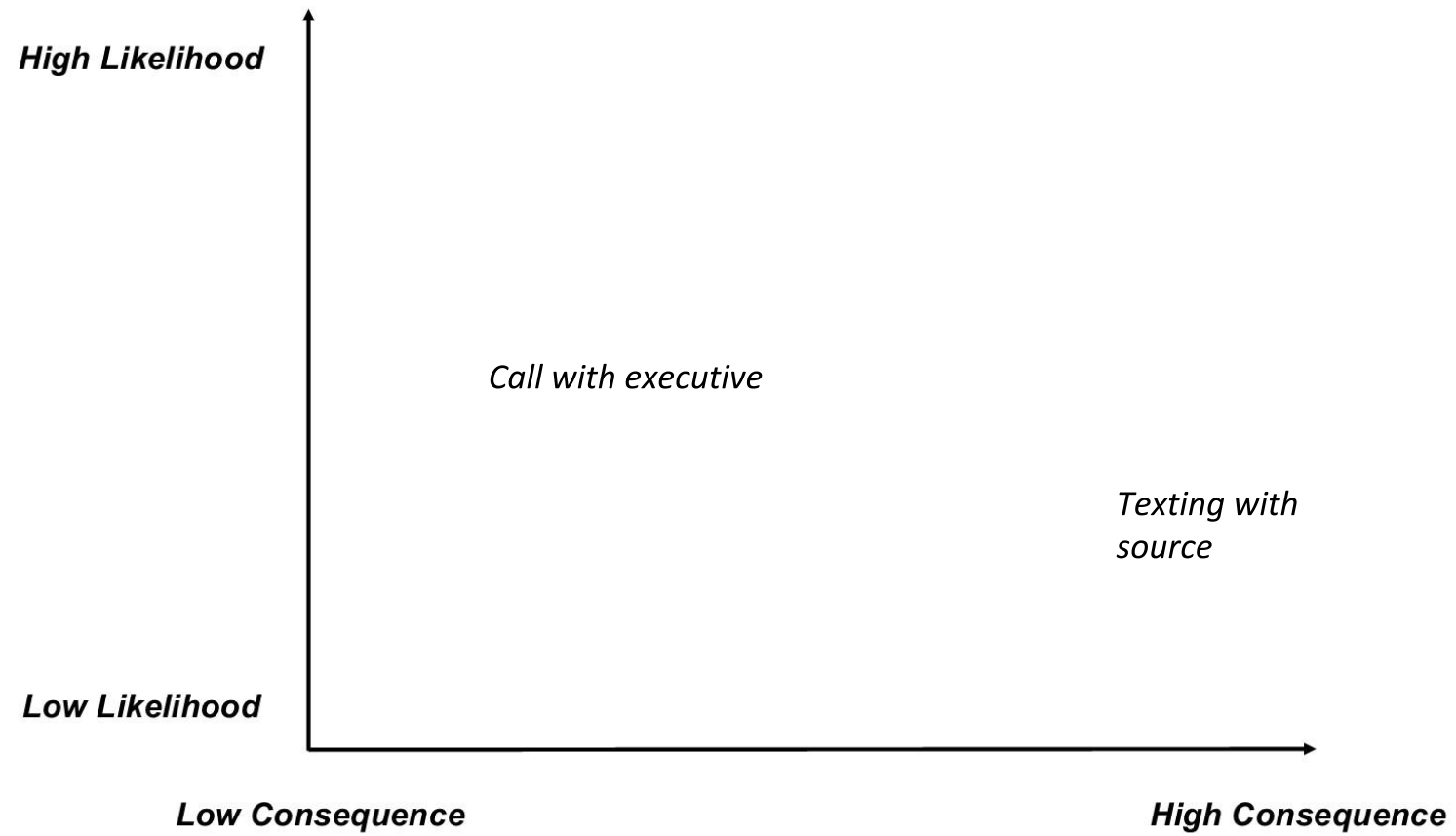
Activities your adversaries can undertake to uncover your investigation, its actors, assets and activities.

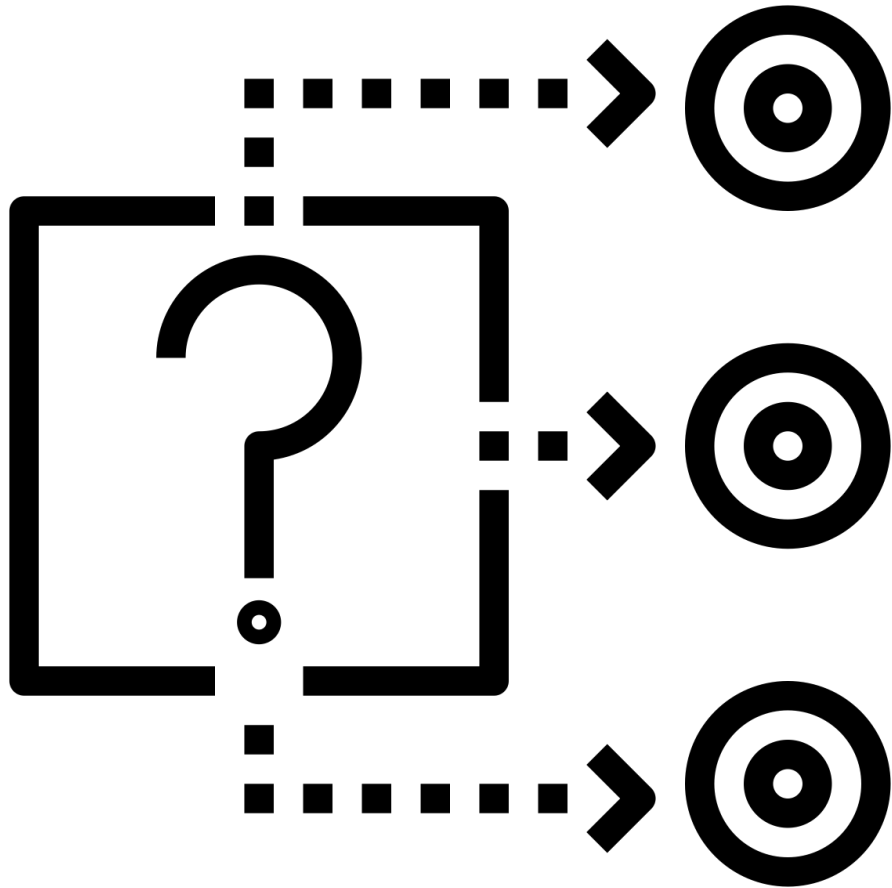
Threats:

Activities your adversaries can carry out to influence your investigation, its actors and activities.

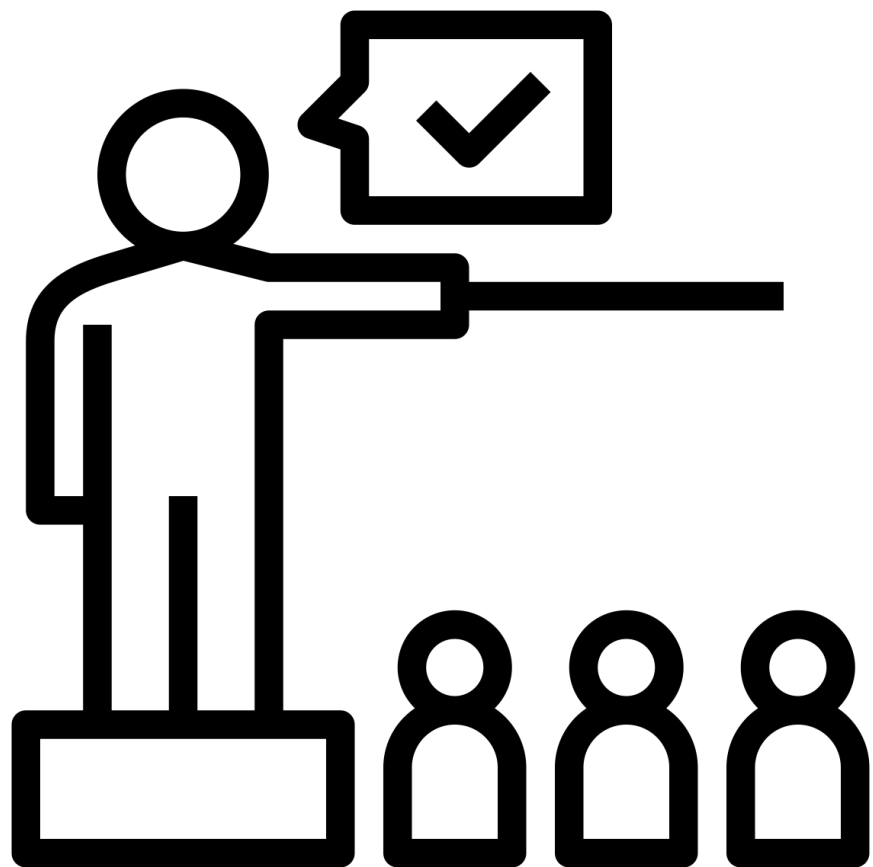


Risk assessment



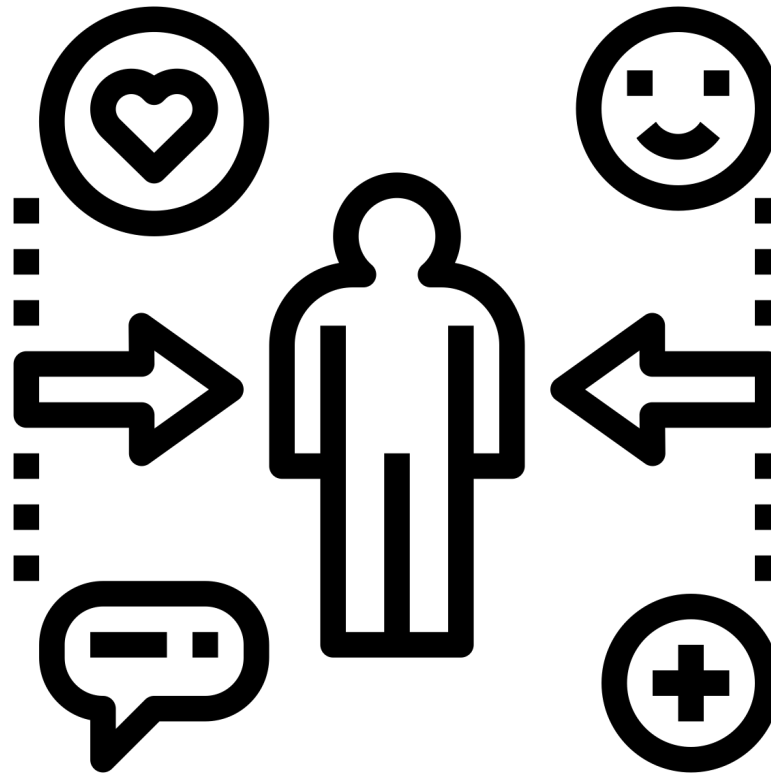


How to protect?



**Present your
protection plan!**

Recap and feedback



Questions

Security measures

Part 1

Time slot indication

.... h - h

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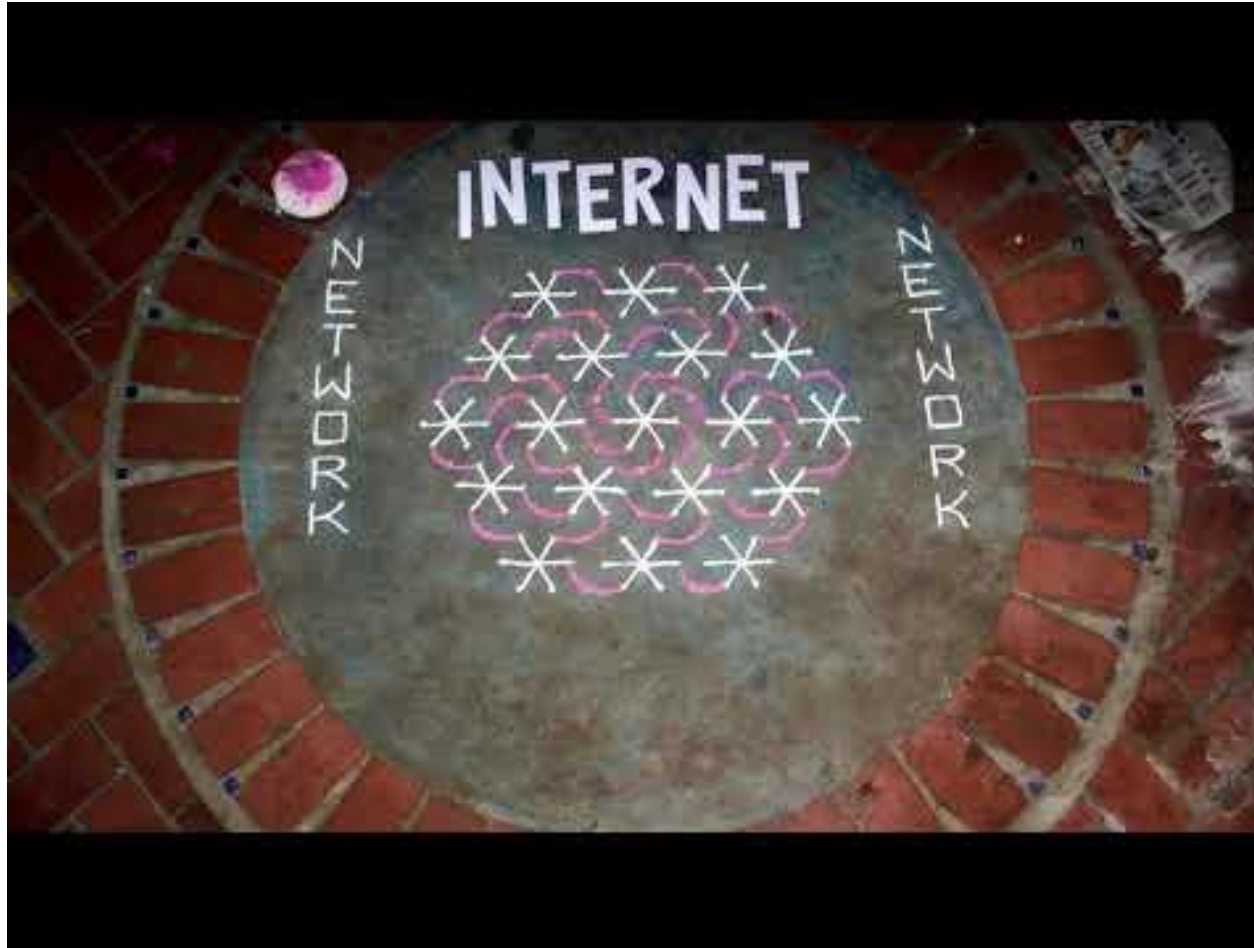
Passwords &
Encryption

Operational & Mobile
Security

Analysing measures

Do you feel secure?

How does the internet work?





Security



Security

Privacy



Security

Privacy

Anonymity

**What can you learn
from a message?**

From: "John Dove"

To: "Journa List"

Subject: Top Secret!

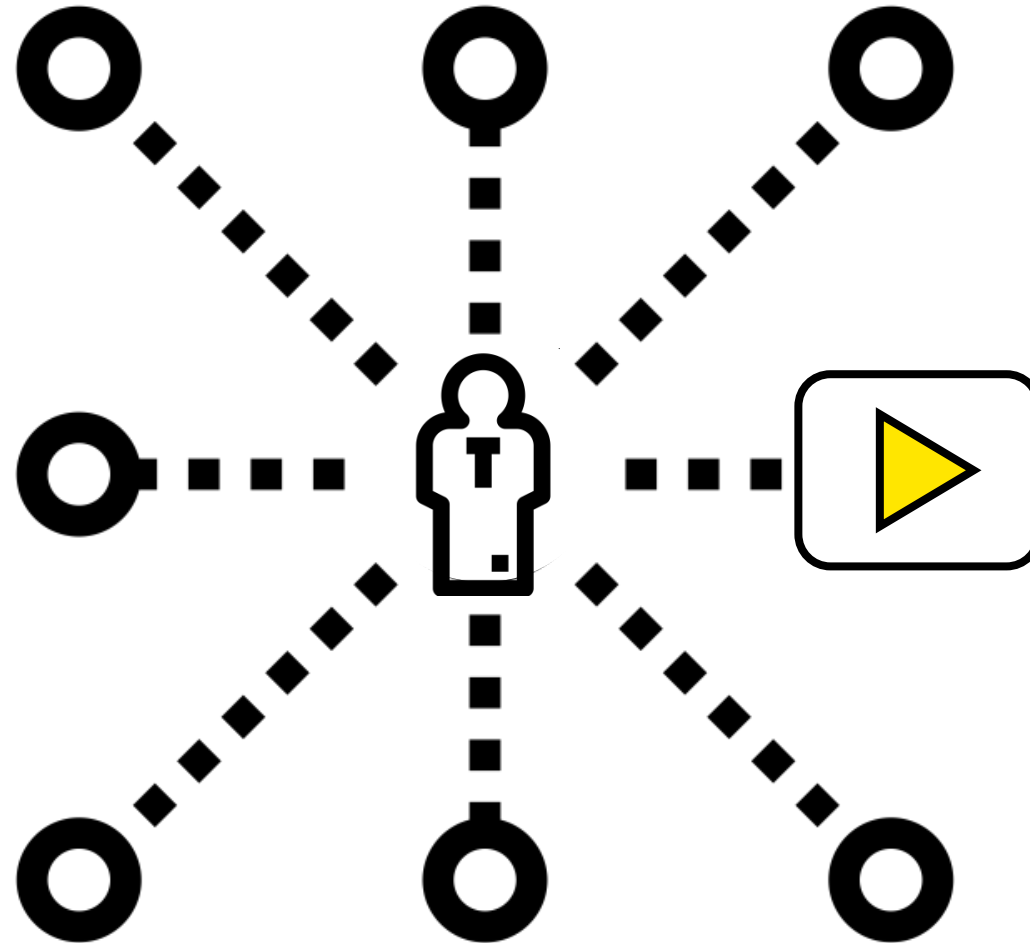
Send: Monday, Sept 17. 15:36

So, I think you should take a look at these recent development, as I am pretty sure Mister Z and Miss Y are involved in some shady business.

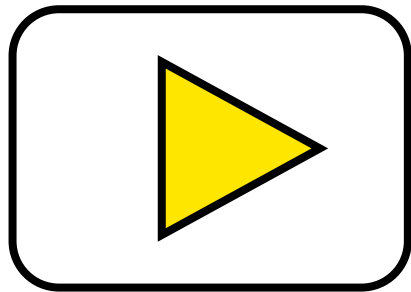
Kind Regards,

Received: from [computername]
(sad231sdc.adsl.wanadoo.com [127.0.0.1])
(using TLSv1 with cipher AES128-SHA (128/128 bits)) (No
client certificate requested)

What can metadata tell?



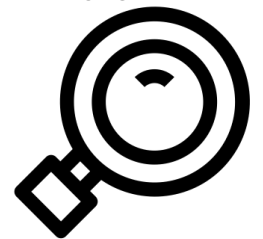
The experienced expert



**What about your
communication?**

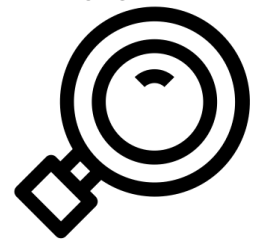
Assess your communication

Somebody sends you a public tweet offering sensitive information about a minister. He/she asks for your email address to continue communication.



Assess your communication

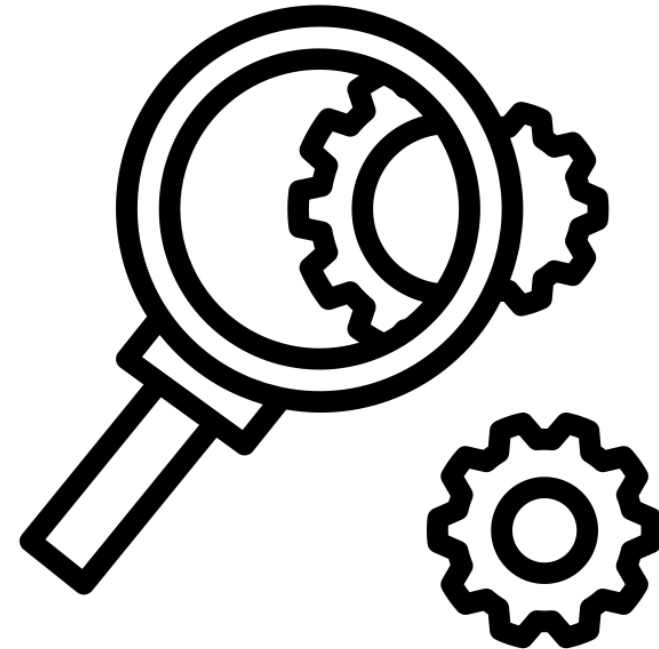
You want to discuss something sensitive with the foreign journalist in your team. He is not answering you on Whatsapp, so you pick up the phone.



Assess your communication

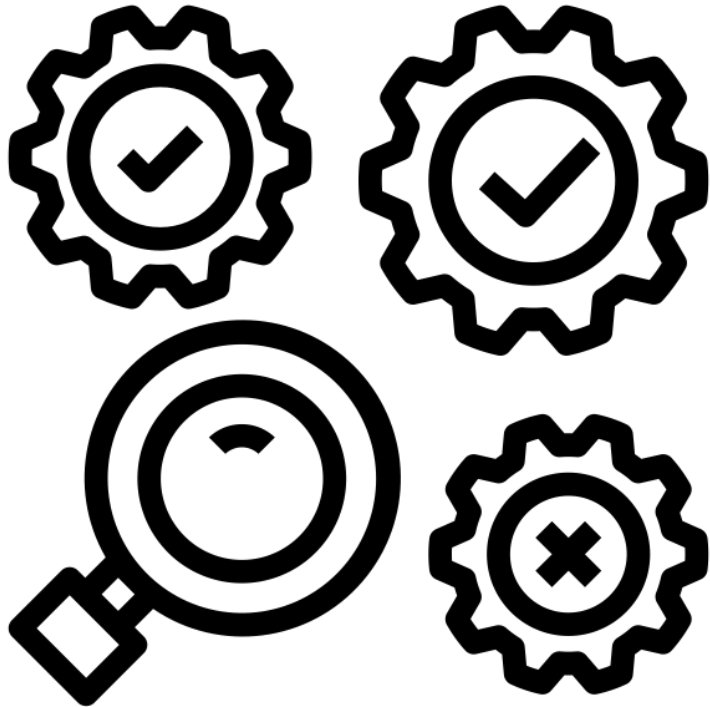


Practice with your team



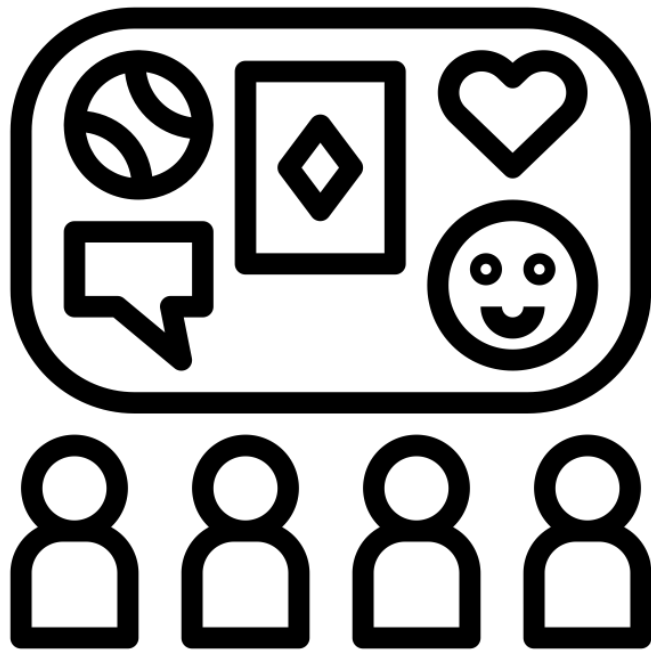
Study your case

Your communication tools



Check the used tools

Standard Operating Procedures



Share your
Standard
Operating
Procedures

Security checklist



Questions & feedback

Money Trail

Digital safety & security

Today's programme

1. Security measures
2. OpSec plan
3. Passwords
4. Encryption
5. Tools

Q&A

Security Measures

Part 2

Time slot indication

.... h - h

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Passwords &
Encryption

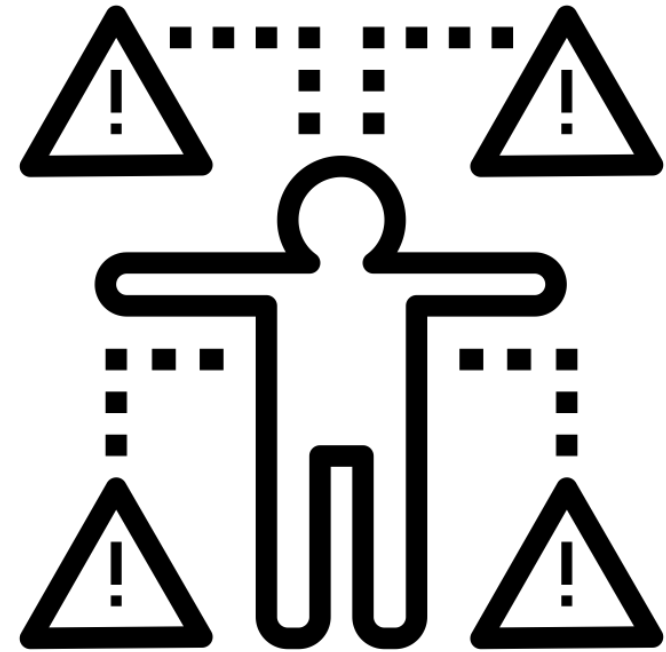
Operational & Mobile
Security

Analysing measures

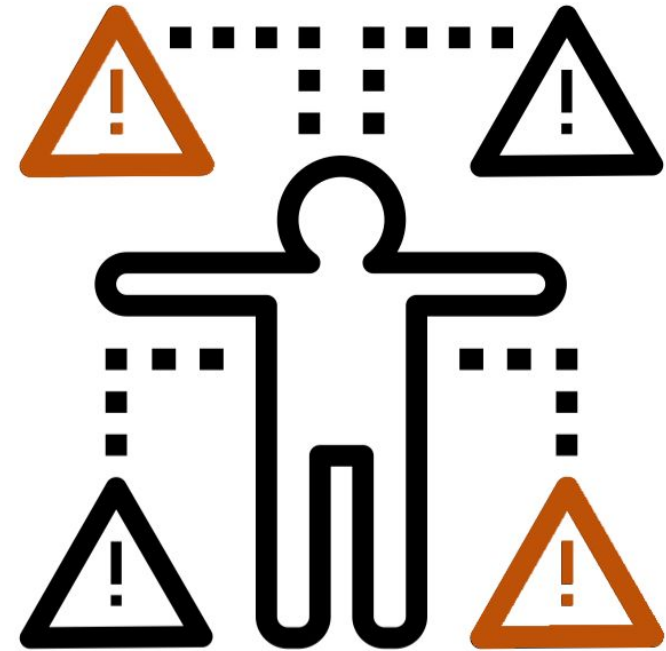
Rebel radio

FREE
PRESS
UNLIMITED

What's the risk?



What's the risk? *your*



S.O.P. II

1. Create a plan
2. Gather feedback
3. Adjust

Strategies

- Mitigating confiscation of assets
- Full disk encryption
- Account security and OTP
- Identity management
- VPNs/ obfuscation technologies
- Remote storage
- Compartmentalisation

Security tools

Time slot indication

.... h - h

Training overview

Risk Assessment

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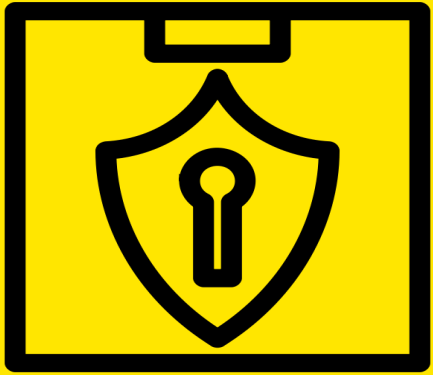
Security Measures

Security Tools

Passwords &
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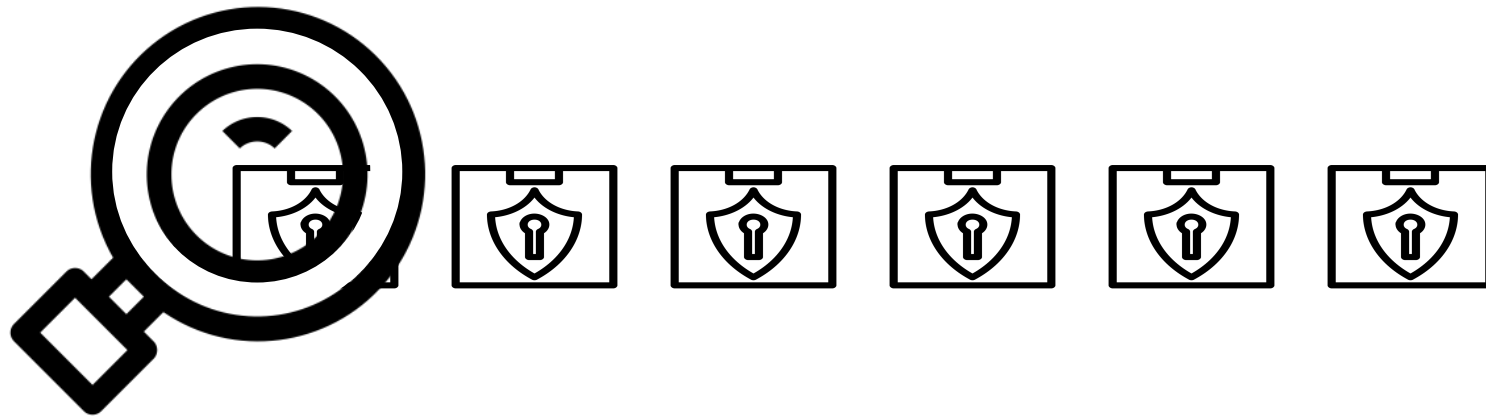
Operational & Mobile
Security

Analysing measures



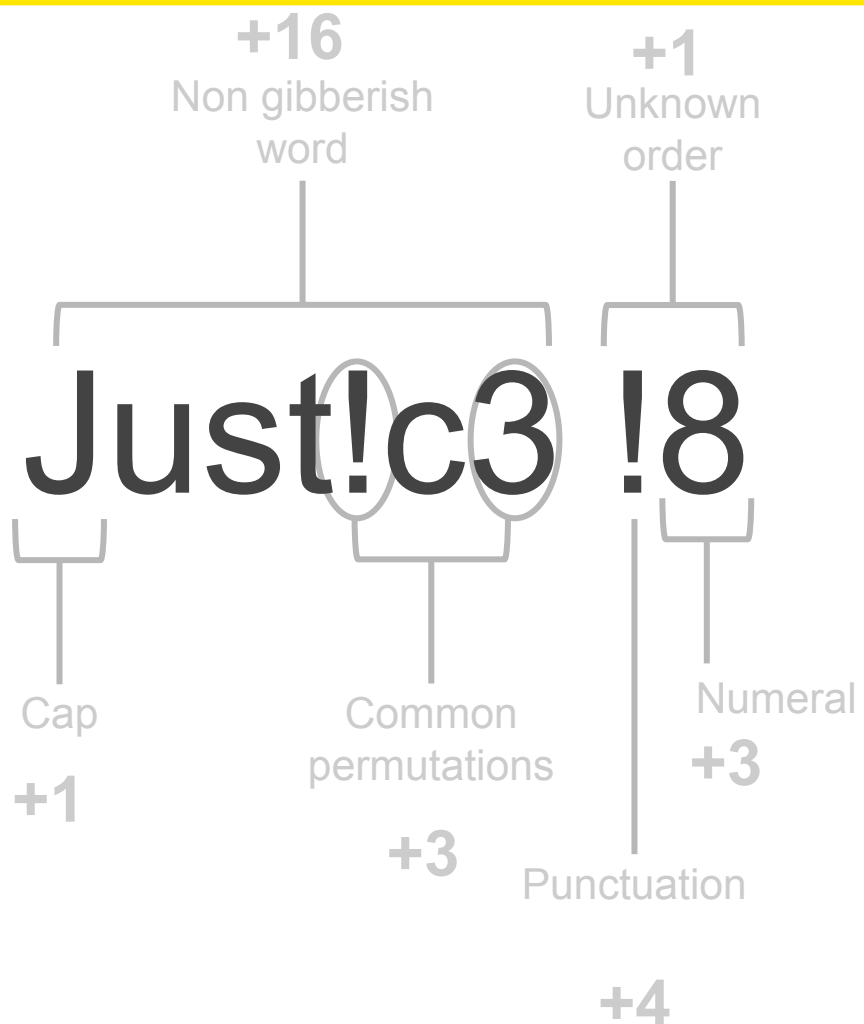
**How secure are your
passwords?**

Let's check

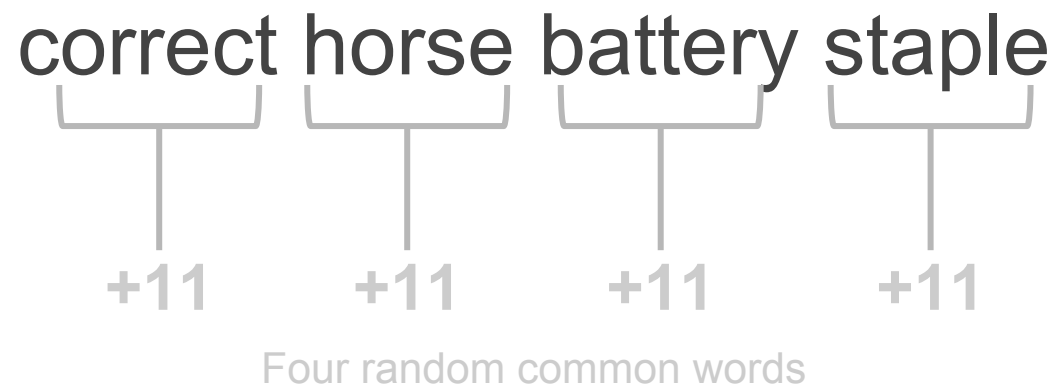
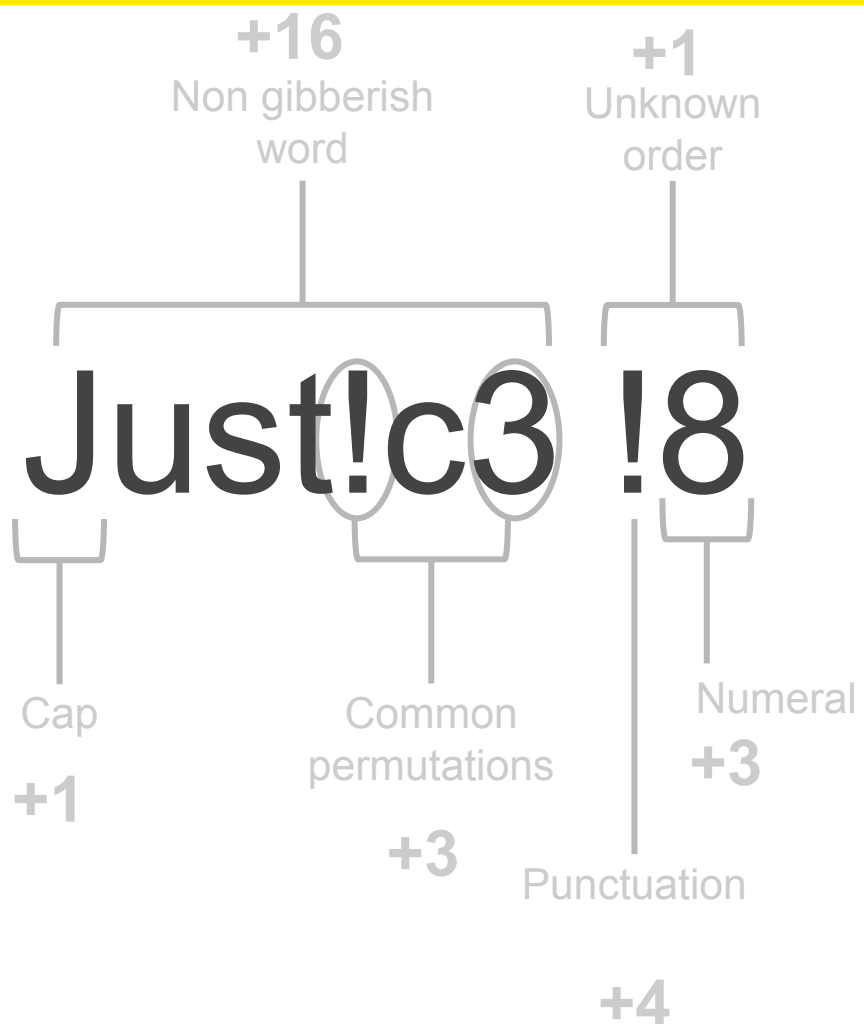


Just!c3 !8

correct horse battery staple



correct horse battery staple



28 bits of entropy

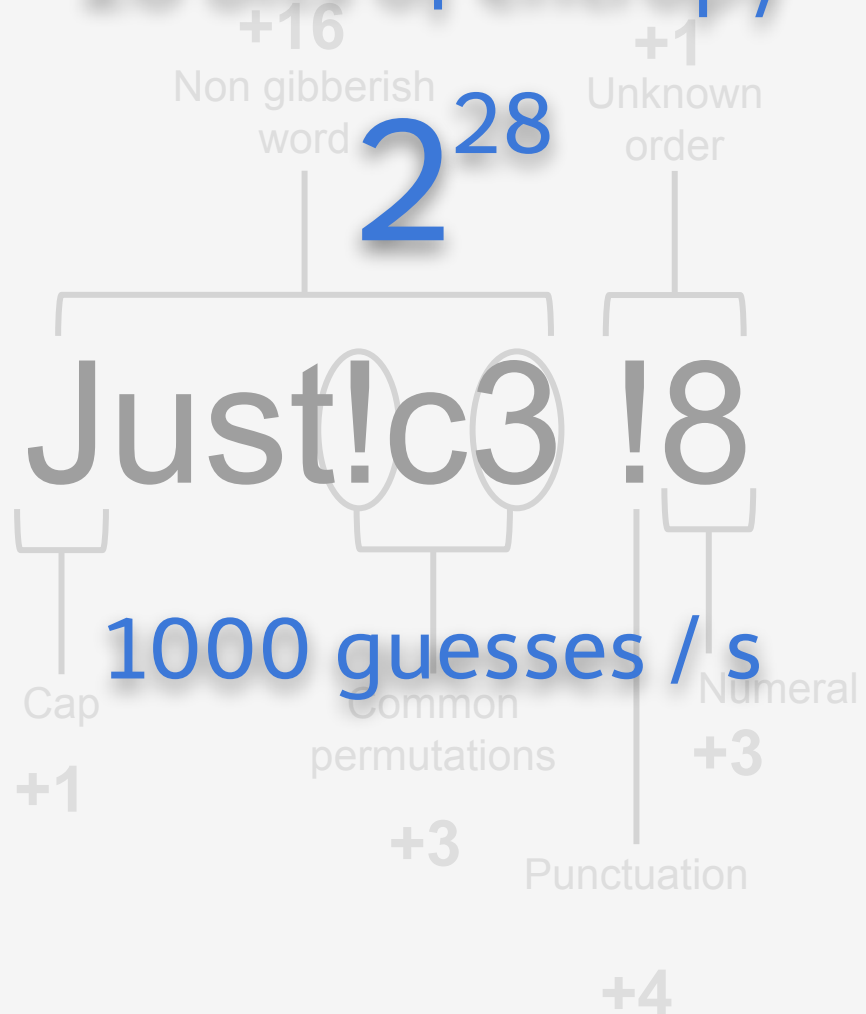


correct horse battery staple

+11 +11 +11 +11

Four random common words

28 bits of entropy

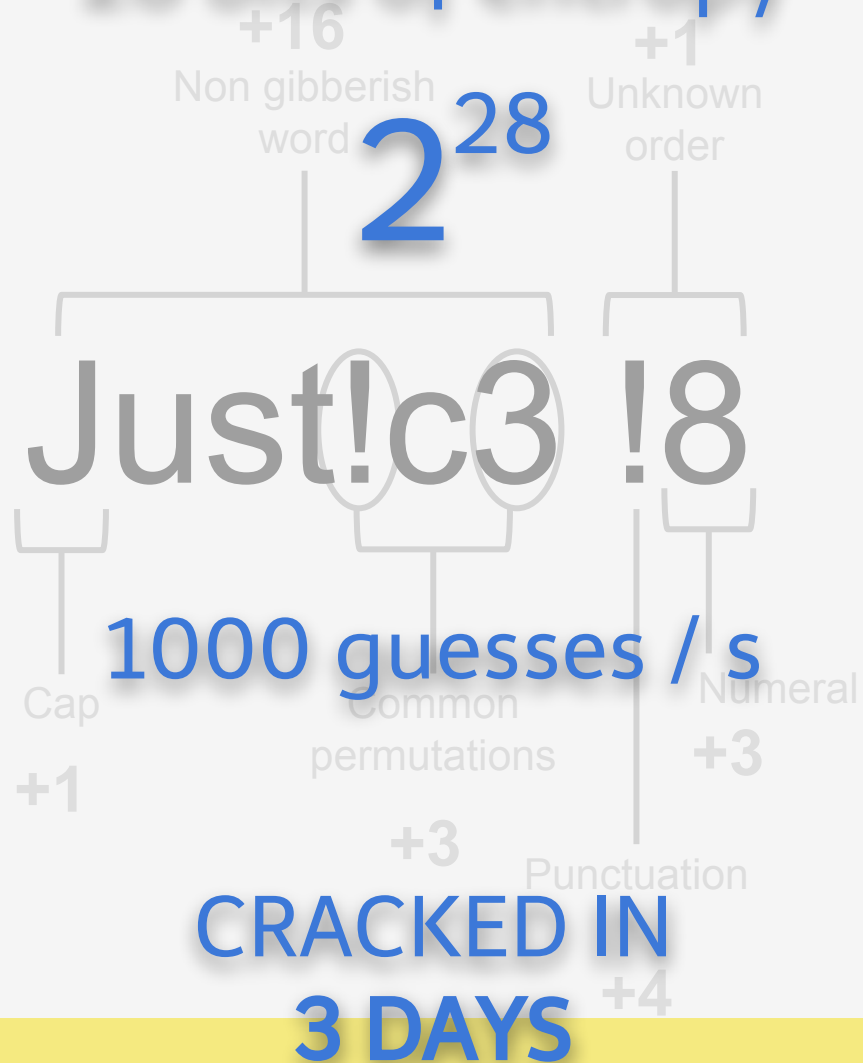


44 bits of entropy

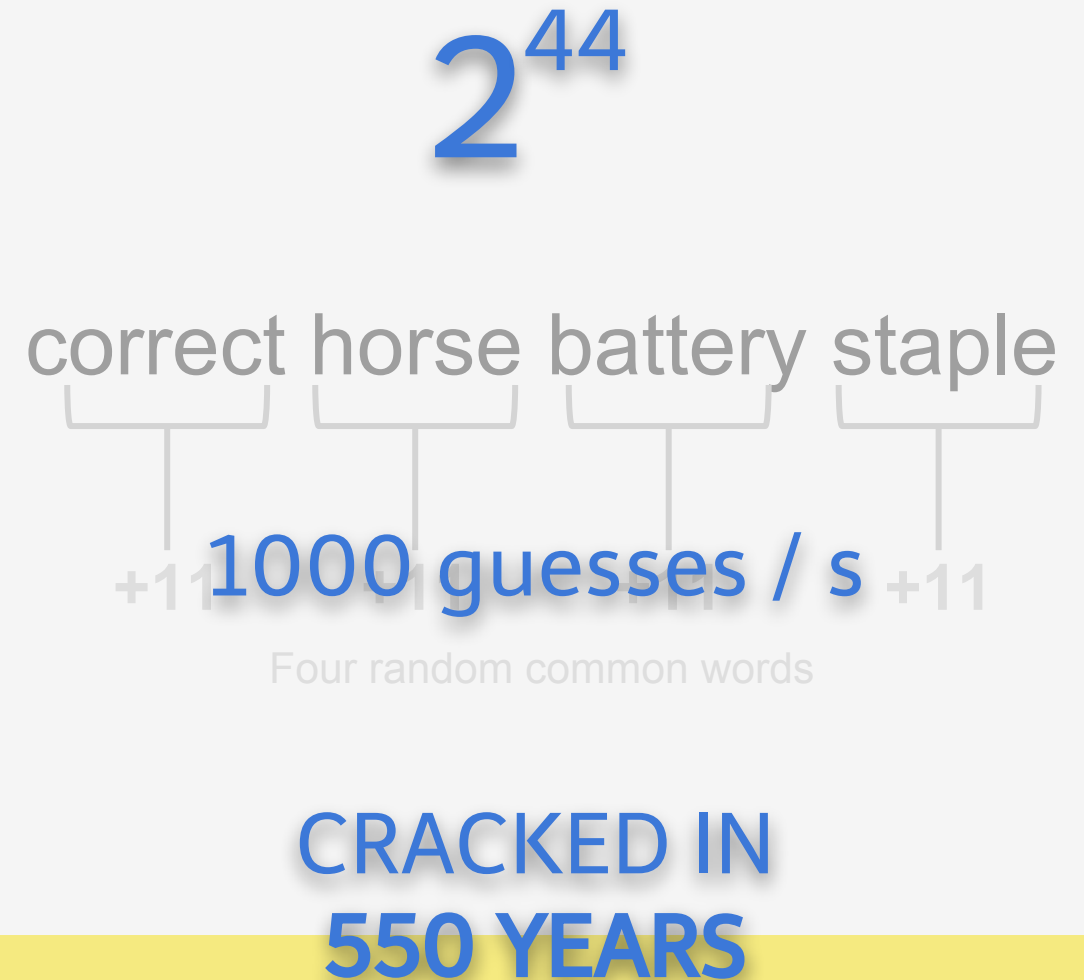
$$2^{44}$$



28 bits of entropy



44 bits of entropy





Sentence-long

Unique

Random

Extra characters

Justice 18

HARD TO REMEMBER

EASY TO CRACK



HARD TO CRACK
EASY TO REMEMBER

\$M0v!e 9r@nd c@t z@and@m !c3#

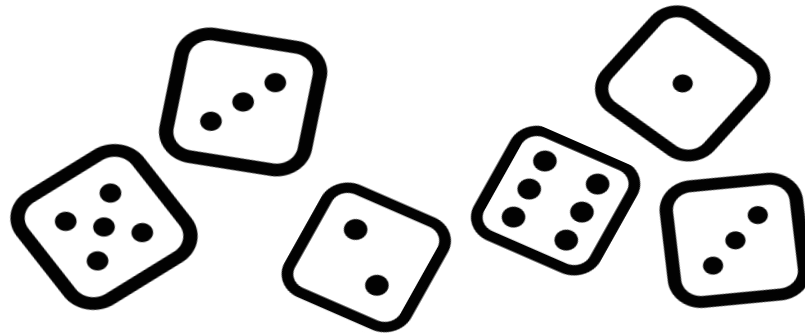
HARD TO REMEMBER

EASY TO CRACK



HARD TO CRACK
EASY TO REMEMBER

Let's create



Dice-generated passphrases

https://www.eff.org/files/2016/07/18/eff_large_wordlist.txt

1. Roll five dices at once.
2. Write all numbers down.
3. Look at the wordlist and find the word which corresponds with the numbers.
4. Write the word down that corresponds with the numbers.
5. Repeat step 1-4 **five** more times to come up with **a total of six words**.
6. Come up with a short story or phrase to remember the six words by.

e.g.: Anger – Cage – Echo – Royal – Smog – Truck

*e.g.: I felt **anger** when locked in a **cage** I heard my own **echo**, which sounded **royal** through the **smog** all formed by the **truck** carrying my confinement.*

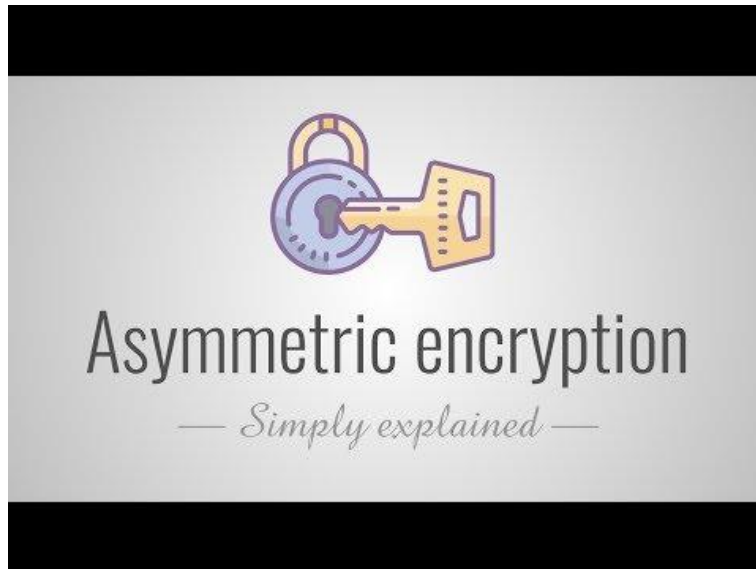
Let's try!



**How to communicate
in a safe way?**

Encryption: the basics

What you just did



(or should have done)

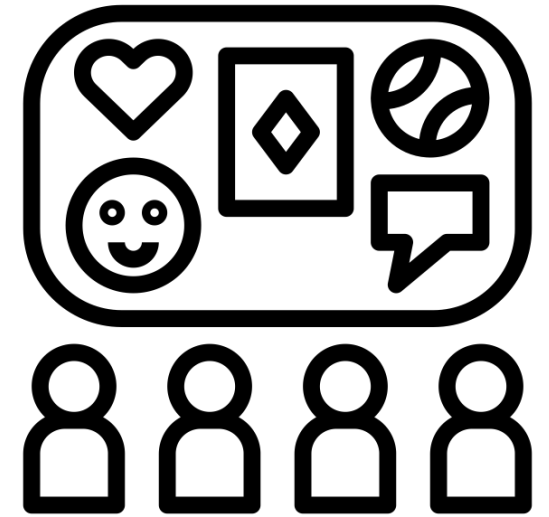
How this works



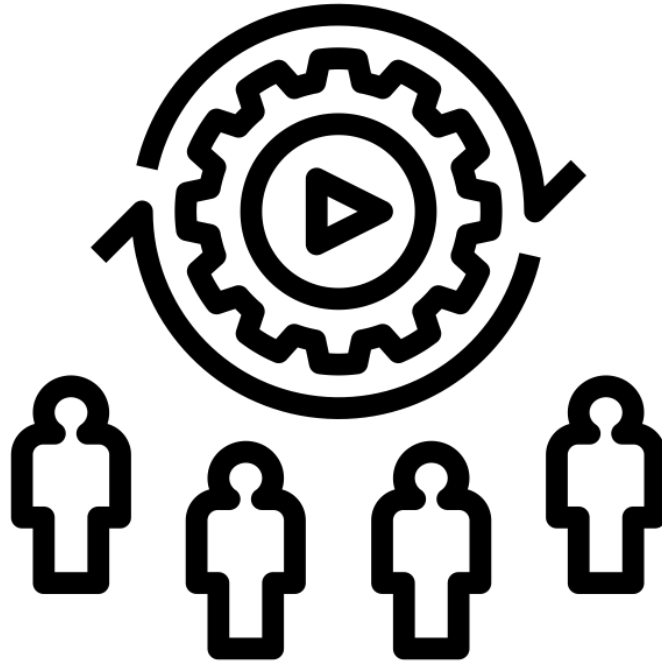
Hackathon

Analyse your measures

1. What is it?
2. When is it useful?
3. When is it not useful / what are its limitations?
4. What does it do to your content, data, metadata?
5. Where to get started / what best solutions out there?
6. Can it be dangerous to use?



**Prepare an informative
- but fun - presentation**



Practice with your team

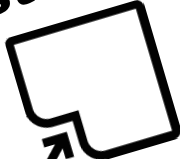
Security checklist



Security checklist



Use the sticker!

A black and white line-art icon of a rectangular sticker with a folded bottom-right corner. An arrow points from the text "Use the sticker!" towards the sticker.

<https://security.money-trail.org/>

Questions & feedback

Money Trail

Digital safety & security

<https://security.money-trail.org/>