

Practicals: BUSINT – Business Intelligence

(based on an article by Stéphane Calé)

1. Introduction

First, have a look to this picture available here:

https://github.com/truillet/ups/blob/master/m1csa/Practicals/EM_portait.jpg



2. The official portrait of President Macron

At first sight, this picture doesn't seem to embed any secret. He is leaning on his desk on which is an open book. He is draped by French and European flags and in the background a window opens to a view of the Elysée Palace garden. But ... take a closer look ...

What is revealed about its security ...

analyze the image and in particular the different elements of composition. What can you discover about the president's environment

Useful link:

- <https://www.ssi.gouv.fr/administration/services-securises/cryptophonie-de-nouvelle-generation/>

More than pictures embedded in the file

Each photograph contains other data than the image: exposure, ISO, ... What can we discover from the history of this shooting?

What can be said about the camera and lens used? Try to trace the story of the photographic lens

Useful links:

- <https://www.sno.phy.queensu.ca/~phil/exiftool>
- <http://metapicz.com/#landing>
- ...

Image processing

Has the photo really been reworked? What can we conclude on this photo?

Useful links:

- <http://www.getghiro.org>
- <https://ifdetector.com>
- <https://29a.ch/photo-forensic>

3. Assessments

- Write a report (2/3 pages) retracing all the elements found on the story of this photo: photography, camera, location, software used, etc.
- Present your work at the end of the session (2/3 slides)