ASSIGNMENT

CRYPTOGRAPHY & NETWORK SECURITY

STEGANOGRAPHY

MEMBERS

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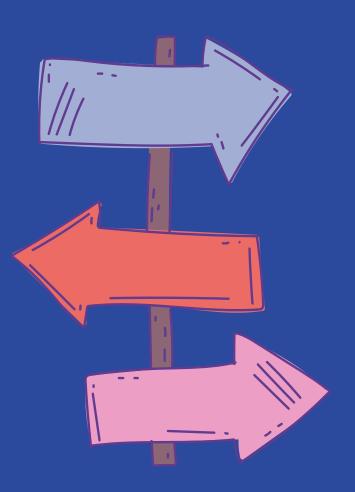


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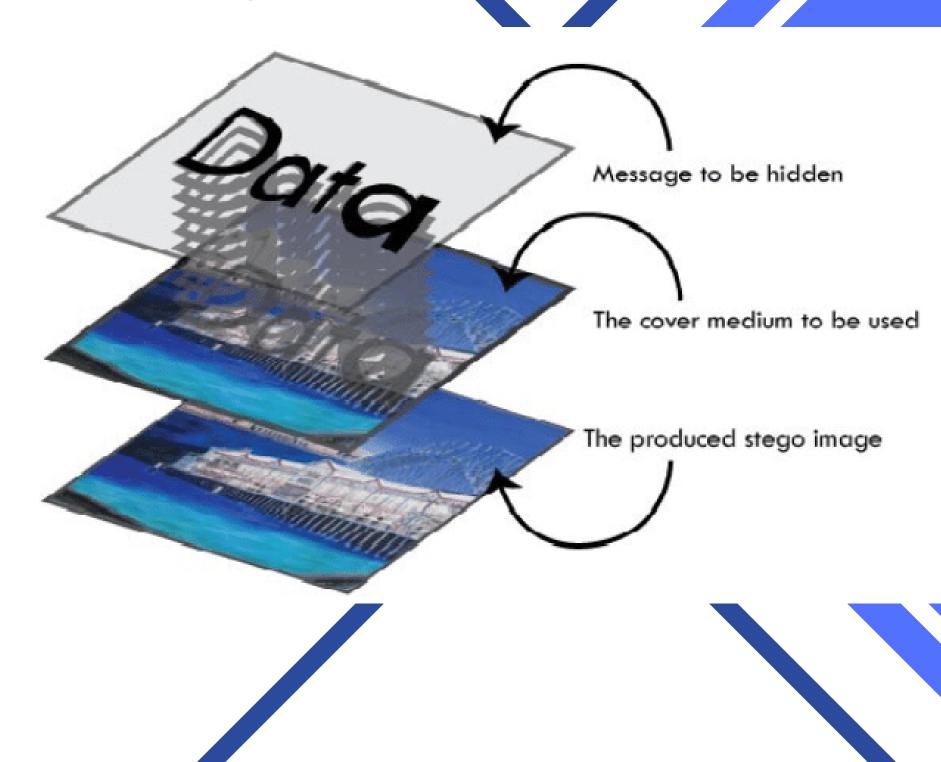
DEFINITION



WHATIS STEGANOGRAPHY?

STEGANOGRAPHY IS A TECHNIQUE FOR HIDING SECRET INFORMATION BY ENCLOSING IT IN A REGULAR FILES.

STEGANOGRAPHY DERIVES FROM THE GREEK WORD STEGANOS, MEANING COVERED OR SECRET, AND GRAPHY (WRITING OR DRAWING).



TYPES OF STEGANOGRAPHY

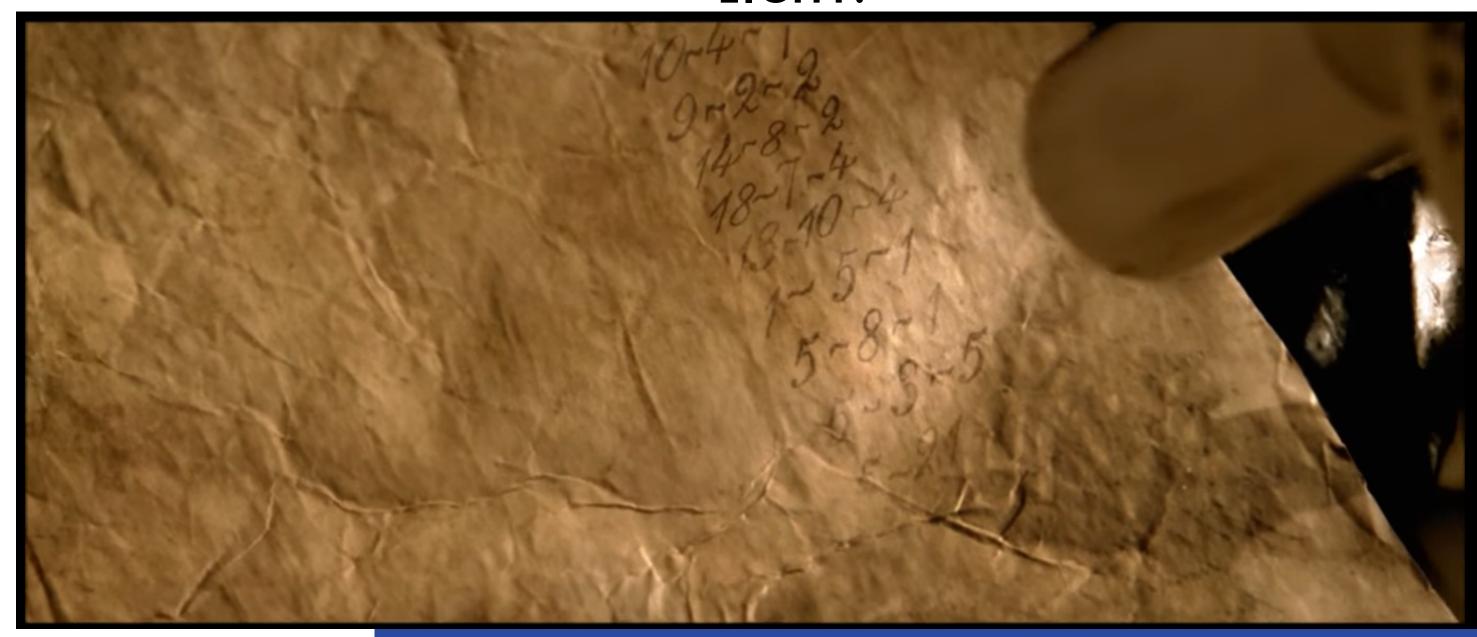
- 1 TEXT STEGANOGRAPHY
- 2 IMAGE STEGANOGRAPHY
- 3 AUDIO STEGANOGRAPHY
- 4 VIDEO STEGANOGRAPHY
- 5 NETWORK & PROTOCOL STEGANOGRAPHY

2 EXAMPLES

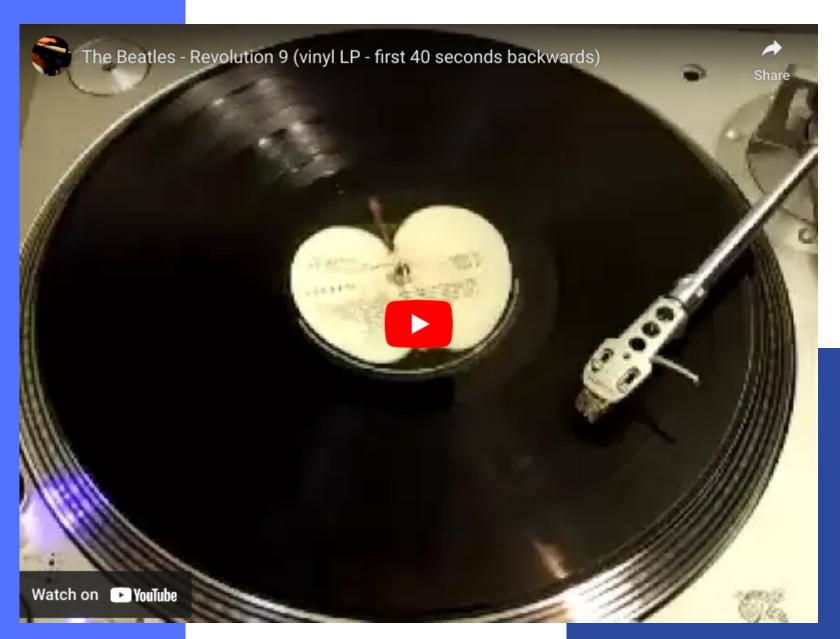


INVISIBLE INK

A SUBSTANCE USED FOR WRITING, WHICH IS INVISIBLE EITHER ON APPLICATION AND CAN LATER BE MADE VISIBLE BY SOME MEANS, SUCH AS HEAT OR ULTRAVIOLET LIGHT.



BACKWARD MASKING



A METHOD OF RECORDING A MESSAGE
BACKWARD ONTO
A TRACK THAT IS INTENDED TO BE
PLAYED FORWARD.

EMBEDDING TEXT IN A PICTURE

THIS METHOD MODIFIES THE IMAGE PIXELS FOR HIDING SECRET INFORMATION.



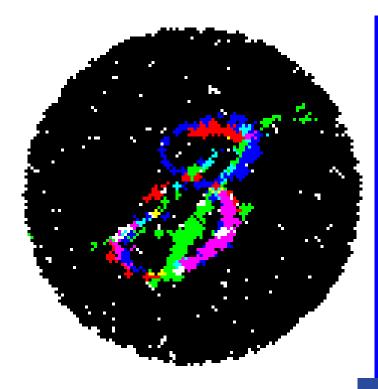


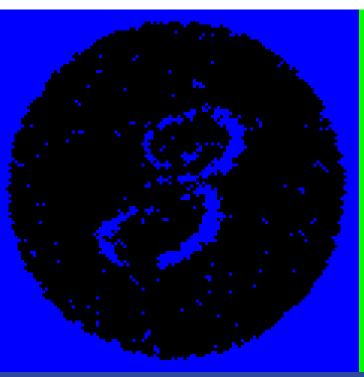
No Message

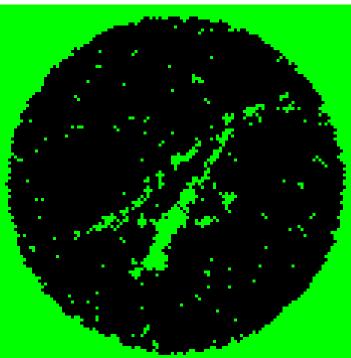
Attack at midnight

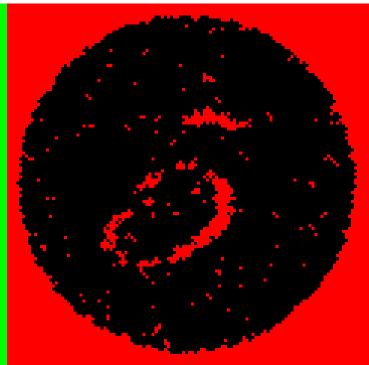
USE LIGHTS TO REVEAL THE MESSAGES

TO SEE THE HIDDEN MESSAGES IN THIS METHOD,
PEOPLE NEED TO USE DIFFERENT LIGHTS
SUCH AS GREEN, BLUE, OR RED LIGHT.









ADVANTAGES



USES OF STEGANOGRAPHY

- 1 A METHOD TO HIDE A SECRET COMMUNICATION
- 2 MAINTAIN COMMUNICATION SECURITY
- 3 KEYS ARE OPTIONAL BUT CAN BOOSTS SECURITY
- 4 OUTSIDERS CAN'T SEE THE DATA INSIDE
- 5 DOESN'T CHANGE THE DATA'S GENERAL ORDER

RISK ANYONE CAN USE DATA ONCE UNLOCKED

DEMONSTRATE



THANKS YOU FOR LISTENING

