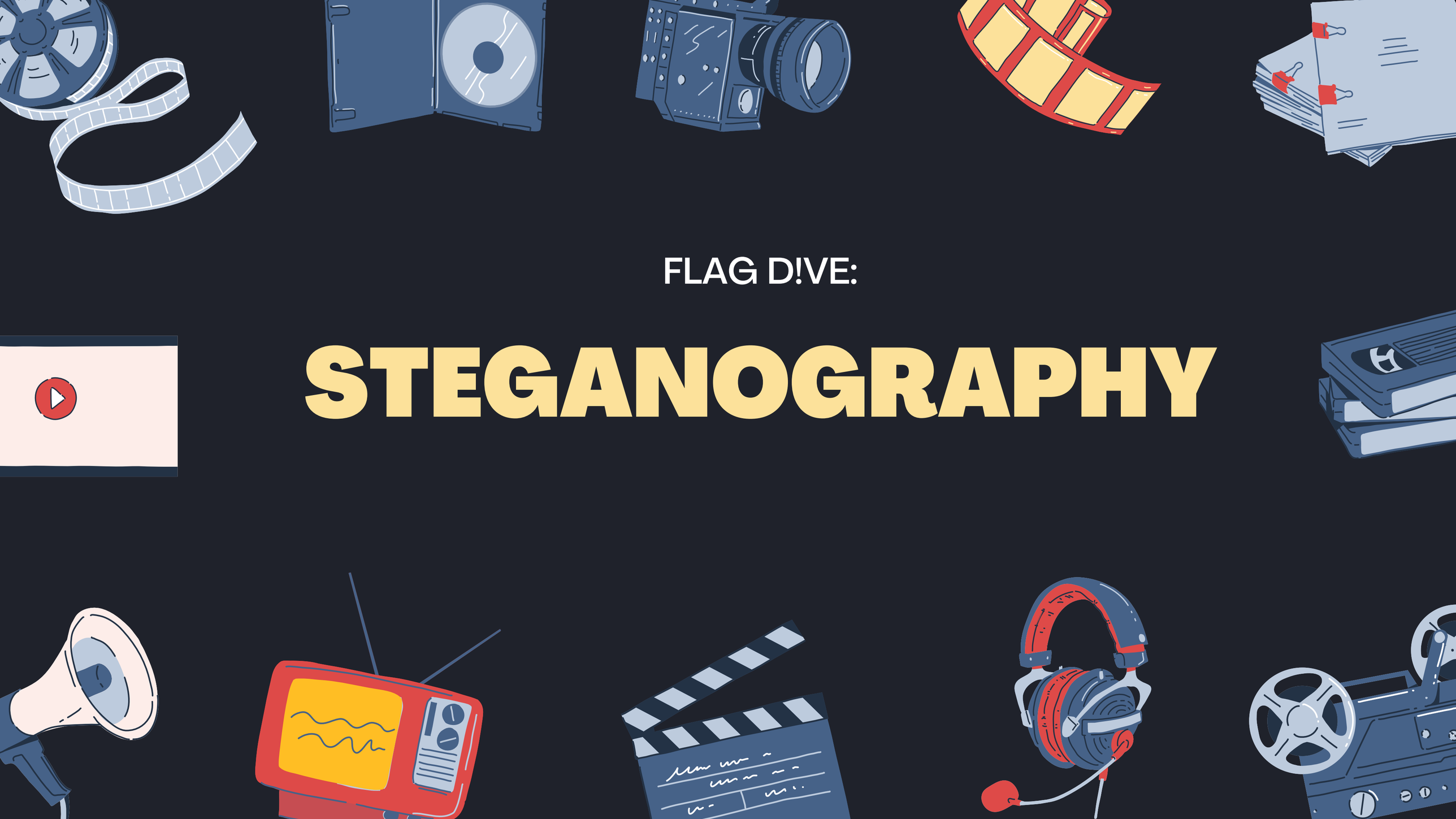
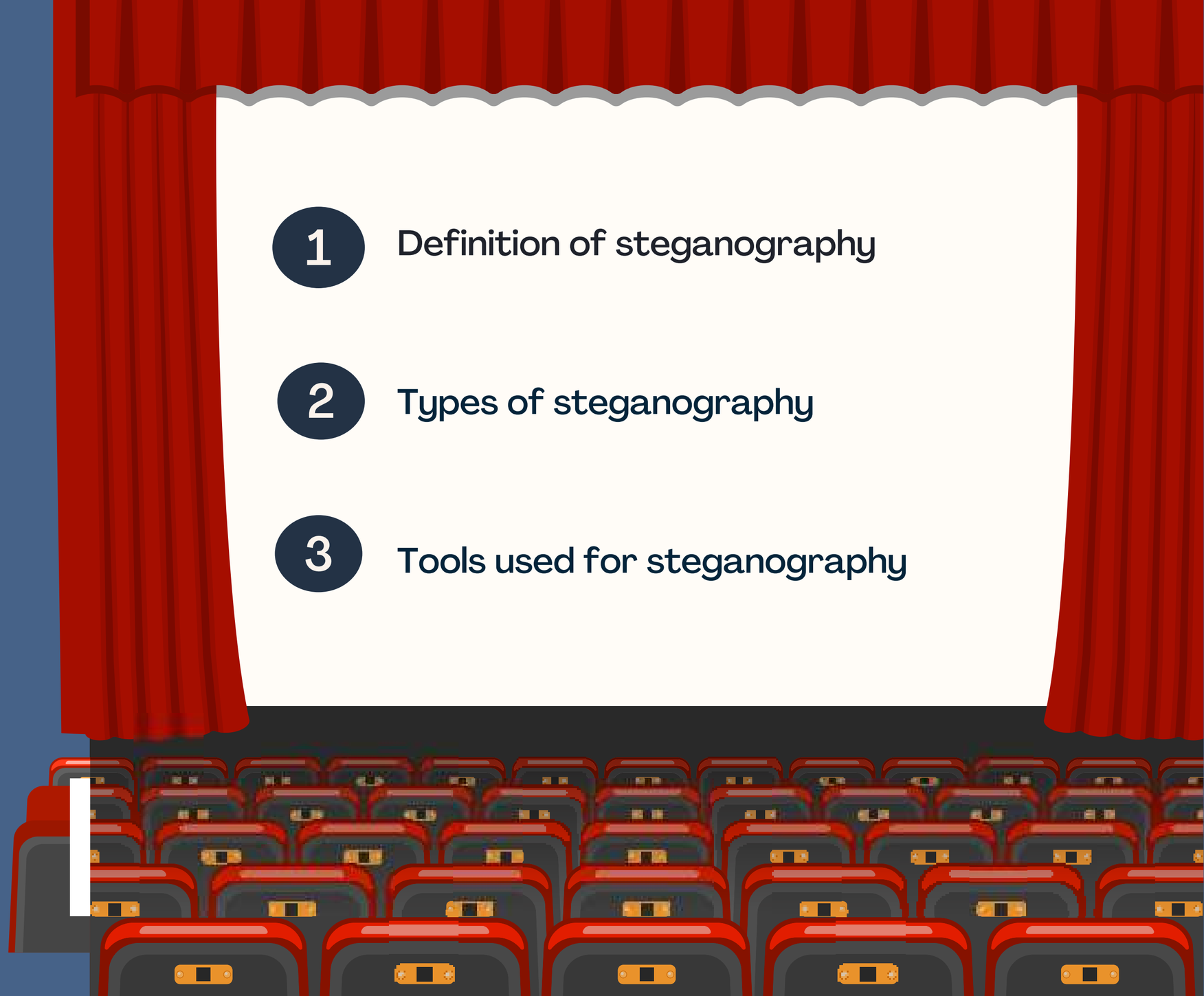
FLAG D!VE:

STEGANOGRAPHY



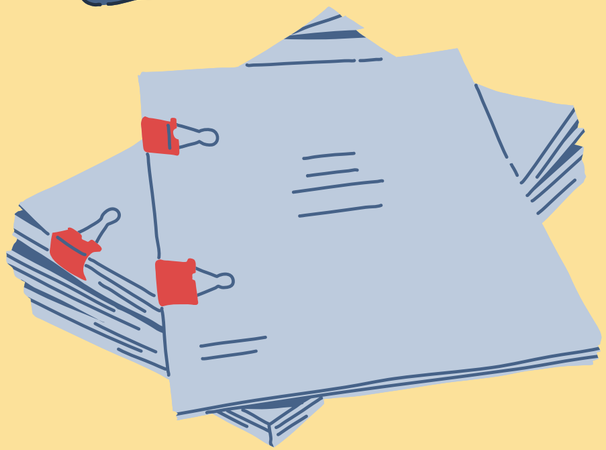
CONTENTS



1 Definition of steganography

2 Types of steganography

3 Tools used for steganography



- $S = (M, C)$
- $S = (C, M, K)$

WHAT IS STEGANOGRAPHY?

Steganography is a technique in which secret data information is concealed and embedded within something ordinary such as images, audio files or even documents.

The implementation is to ensure that when two parties communicates, messages can be delivered in secrecy.

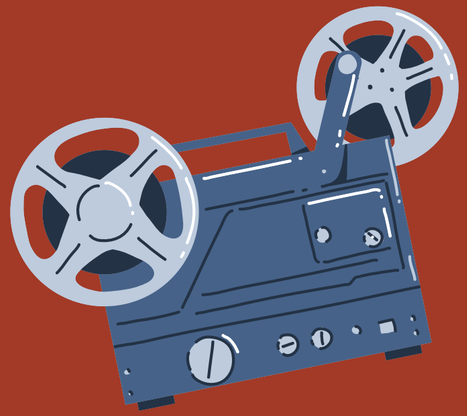
TYPES OF STEGANOGRAPHY

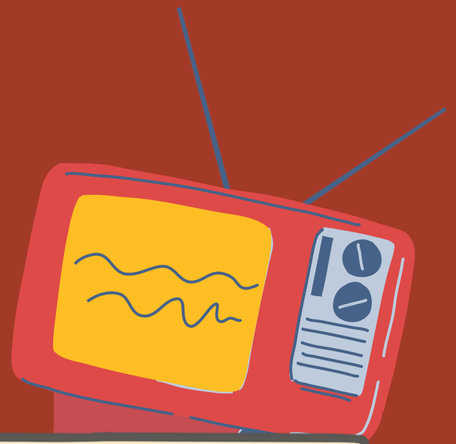
- Text
- Image
- Video
- Network
- Audio

TOOLS USED

- Steghide
- StegSolve
- OpenStego
- Binwalk
- Exiftool
- HexEditor
- Strings
- Sonic Visualizer

and the list goes on....



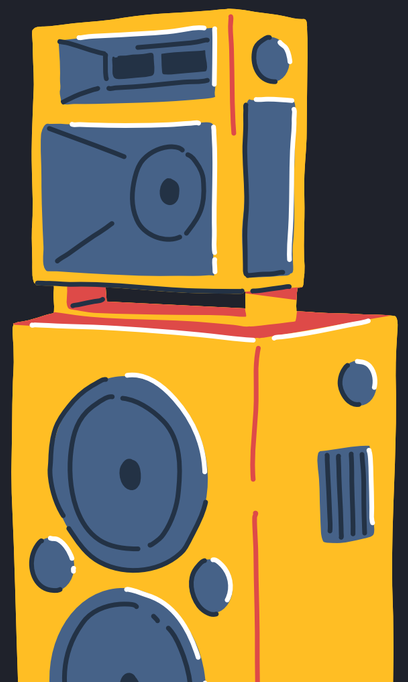


IMPORTANT

!!! Performing steganography and steganalysis is DIFFERENT

HANDS-ON PRACTICE, MOU?

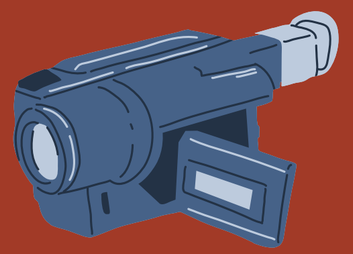
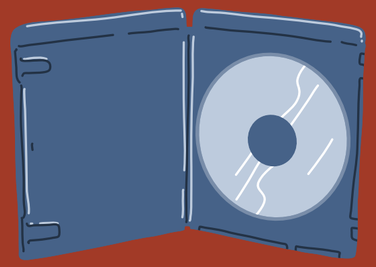
ARE YOU UP FOR THE CHALLENGE?



STEGANOGRAPHY

- Conceals the existence of the message.
- Hides the message within another medium.
- Focuses on secrecy.
- Detection : Steganalysis
- Examples include hiding messages in images, audio files, or videos.

VS

CRYPTOGRAPHY

- Encrypts messages.
- Transform plaintext to ciphertext
- Relies on keys for encryption and decryption.
- Detection: Decryption
- Examples include encoding messages using algorithms like AES, RSA, etc.