Introduction to Steganography

Mohamed Doukkani

Plan









WHAT IS STEGANOGRAPHY?

HOW STEGANOGRAPHY WORKS?

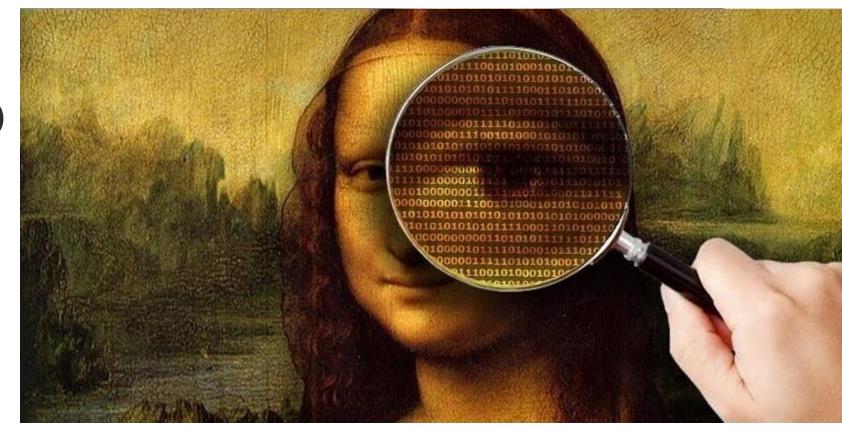
TOOLS FOR STEGANOGRAPHY

A CHALLENGE

Before we start What is Steganography?

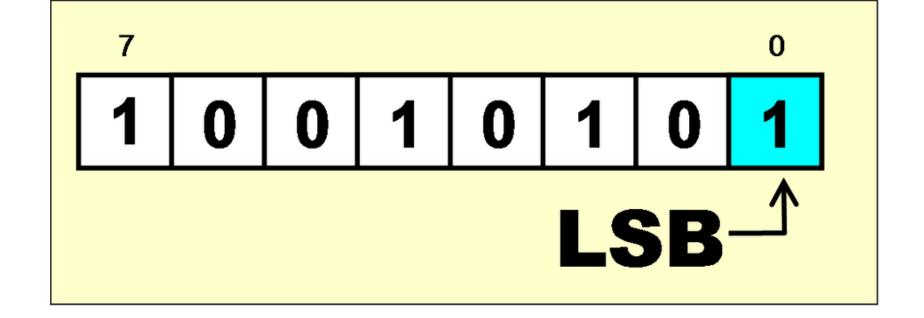
What is Steganography?

Steganography is when you hide a encrypted data in, say, an image without anyone noticing it being there.

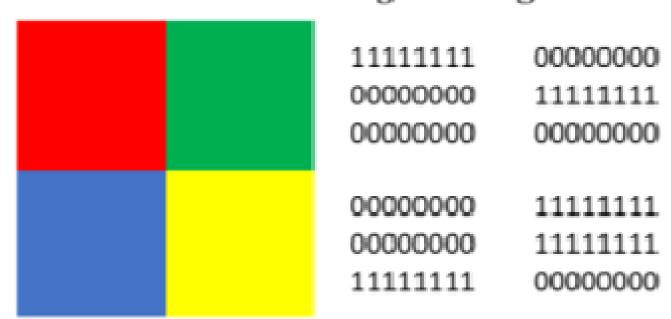


How Steganography Works?

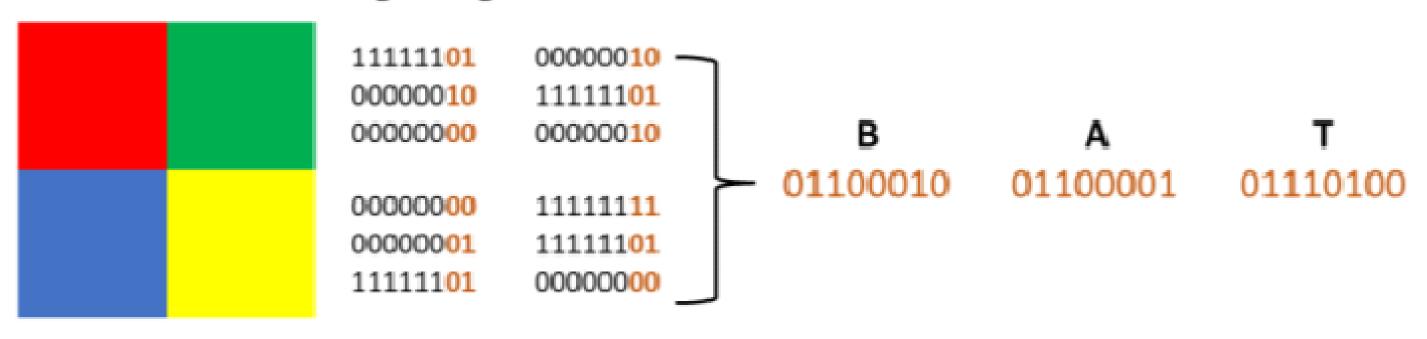




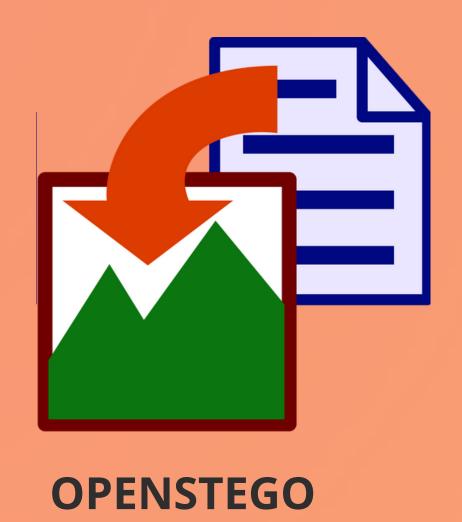
Original Image



Stego Image



Tools for Embedding Messages

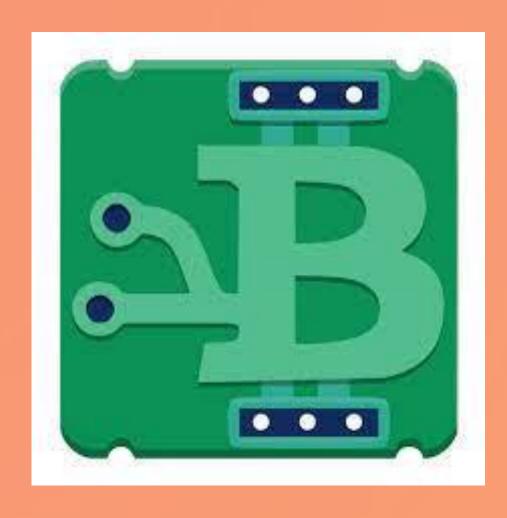


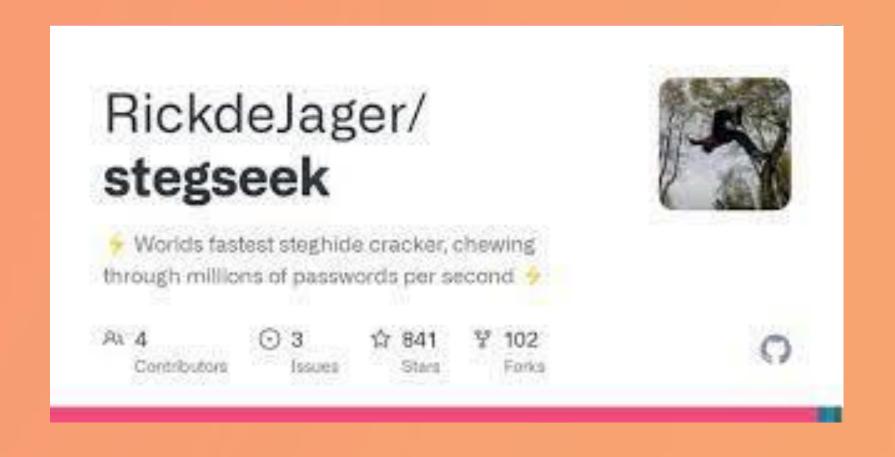


STEGHIDE



Detecting and Extracting Hidden Messages





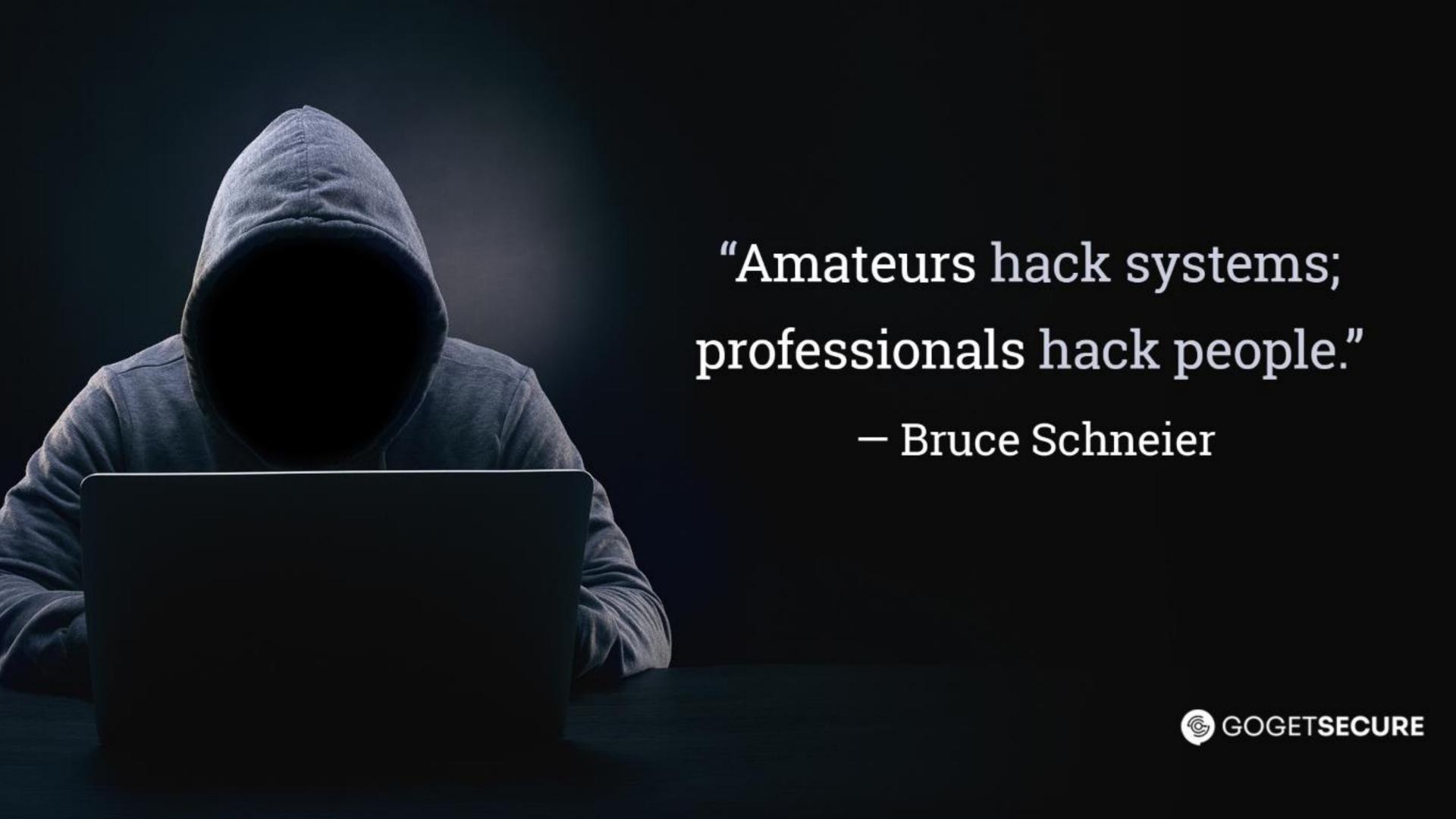
BINWALK

STEGHIDE

```
CyberClub@kali:~$ steghide info mdk.jpeg
 Enter-passphrase:
CyberClub@kali:~$ binwalk mdk.jpeg -e
CyberClub@kali:~$ stegseek mdk.jpeg
[i] Found Passphrase: "123456"
[i] Original File name : "msg.txt"
                                      [i] Extracting to : "mdk.jpeg.out"
                                      CyberClub@kali:~$ cat mdk.jpg.out
```

[i] "Ghadin Temchiw b3id inchallah"

Challenge



Thank You!