

古典密碼學補充1

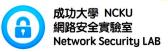
計網中心 網路與資訊安全組 李南逸



資料保護另一種分類方式

• 資料保護:

- 2. 隱藏學(Steganography): Steganography is a method in which secret message is hidden in a cover media. Steganography means covered writing (hidden writing). ③ 以不知



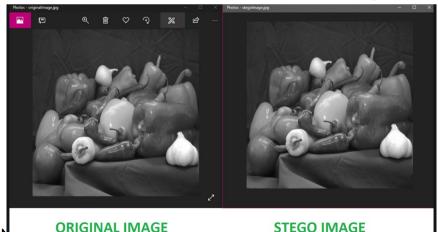
Text and Image Steganography Samples

• Text Steganography 久字隱藏學

This book is mostly about cryptography, not steganography.



Image Steganography 圖像隱藏學



Dixel 灰階值

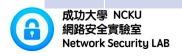
7,11		
	1011110 <u>0</u>	0101010 <u>1</u>
0101111 <u>0</u>	1011110 <u>0</u>	0110010 <u>1</u>
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Network Securitu LAB

MN Difference · Steganography and Cryptography

	Steganography 🥻 🎉 🥞	Cryptography 🦂 🐫 🥰
1.	Steganography means covered writing.	Cryptography means secret writing.
2.	Steganography is less popular than Cryptography.	While cryptography is more popular than Steganography.
3.	Attack's name in Steganography is Steganalysis.	While in cryptography, Attack's name is Cryptanalysis .
4.	In steganography, structure of data is not usually altered.	While in cryptography, structure of data is altered.
5.	Steganography supports Confidentiality and Authentication security principles.	While cryptography supports Confidentiality and Authentication security principles as well as Data integrity and Non-repudiation .
6.	In steganography, the fact that a secret communication is taking place is hidden.	While in cryptography only secret message is hidden.
7.	In steganography, not much mathematical transformations are involved. 人太意義 獎氣質	Cryptography involves the use of number theory, mathematics etc. to modify data



作業1

- 請設計一套資訊隱藏技術
 - 須包含藏入、取出機密訊息之過程或方式,以及範例
 - 繳交
 - 1. Pdf檔案(可用手寫方式)
 - 2. 兩週內繳交
 - 3. 一人一組

