





Some applications of cryptography

- network, operating systems security
- protect Internet, phone communications
- electronic payments
- database security
- software protection
- pay television
- military communications
- voting

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Open versus closed system design

• **Open design**: algorithm, protocol, system design (and even possible plaintext) may be public information. The only secret is the key(s)

• **Closed design**: as much information as possible is kept secret

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Rosetta Stone	
(some material borrowed from Oberlin College)	
The key used to decrypt two Egyptian writing systems:	
Hieroglyphs: used for official texts	
and	
Demotic: everyday language of the	
people	
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