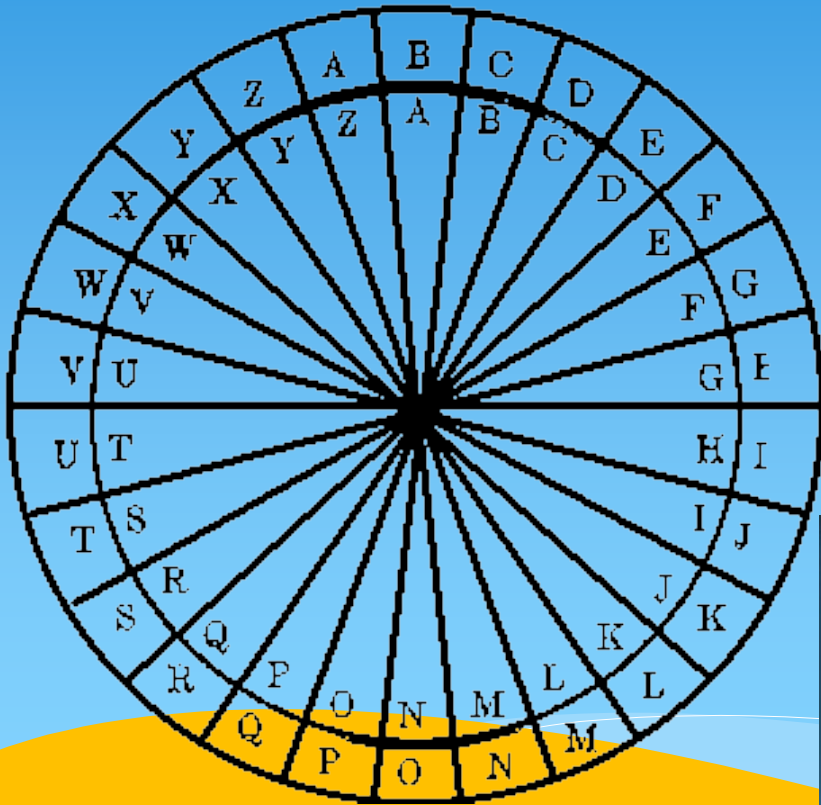
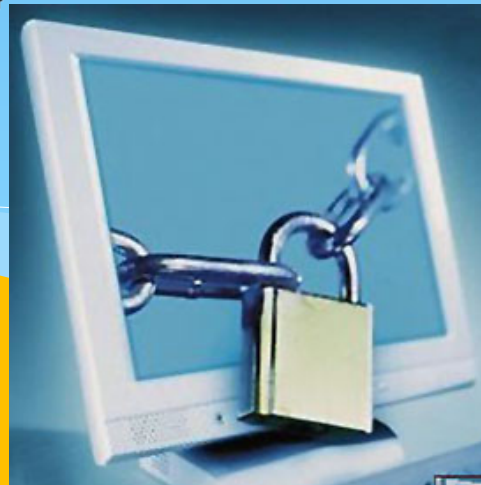


Cryptography



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YQTQUXQBQVYUUVLLTREVJYQTMKYRDMFD
VFPJUDEEHZWETZYVGWHKKQETGFGJNCE
GGWHKK?DQMCPPQZDQMMIAGPFXHQRLG
TIMVMZJANQLVKQEDAGDVFRPJUNGEUNA
QZGZLECGYUXUEENJTBBLBQCRTBJDFHRR
YIZETKZEMVDUFKSJHKFWHKUWQLSZFTI
HHDDDUVH?DWKBFUEFPWNTDFIYCUQZERE
EVLDKFEZMOQQJLTUGSYQPFEUNLAVIDX
FLGGTEZ?FKZBSFDQVGOGIPUFXXHDKRF
FHQNTGPAECNUVPDJMQCLQUMUNEDFQ
ELZZVRRGKFFVOEEXBDMVPNFGXEZLGRE
DNQFMPNZGLFLPMRJQYALMGNUVPDXVKP
DQUMEBEDMHDAFMJGZNUPLGEWJLLAETG
ENDY AHR OHNLSRHEO CPTEOIBIDYSHNAIA
CHTNREYULDSLLSLLNOHSNOSMRWXMNE
TPRNGATIHNRARPESLNNELEBLPIIACAE
WMTWNDITEENRAHCTENEUDRETNAEOE
TFOLSEDTIWENHAEIOYTEYQHEENCTAYCR
EIFTHRSPPAMHHEWENATAMATEGYEERLB
TEEFOASFIOTUETUAEOTOARMAEERTNRTI
BSEDDNIAAHTTMSTEWPIEROA GRIEWFEB
AECTDDHILCEIHSITEGOEAOSDDRYDLORIT
RKLMLHAGTDHARDPNEOHMGFMFEUHE
ECDMRIPFEIMEHNLSSTTRTVDOHW?OBKR
UOXOGHULBSOLIFBBWFLRVQQPRNGKSSO
TWTQSQSSEKZZWATJKLUDIAWINEBNYP
VTTMZFPKWGDKZXTJCDIGKUHUAUEKCAR



Cryptography

- * Cryptography is derived from the Greek work 'kryptos'
- * Kryptos means 'hidden' or 'secret'



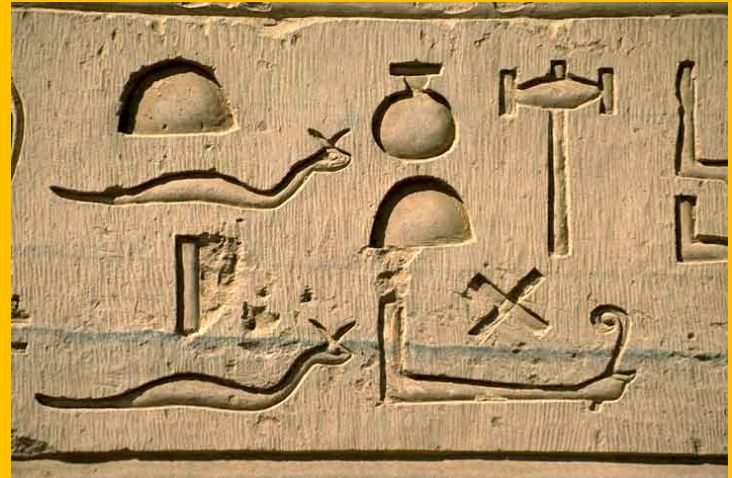
Cryptography

- * Cryptography is thought to date back to the Egyptians and their use of hieroglyphics



Cryptography

- * Hieroglyphics were complex pictograms
- * At the time, the meaning of the hieroglyphics were known only by a few



Cryptography

What does this hieroglyphics message say?



Cryptography

You can only understand this Message if you have the code or the key to 'unlock' or decipher it.



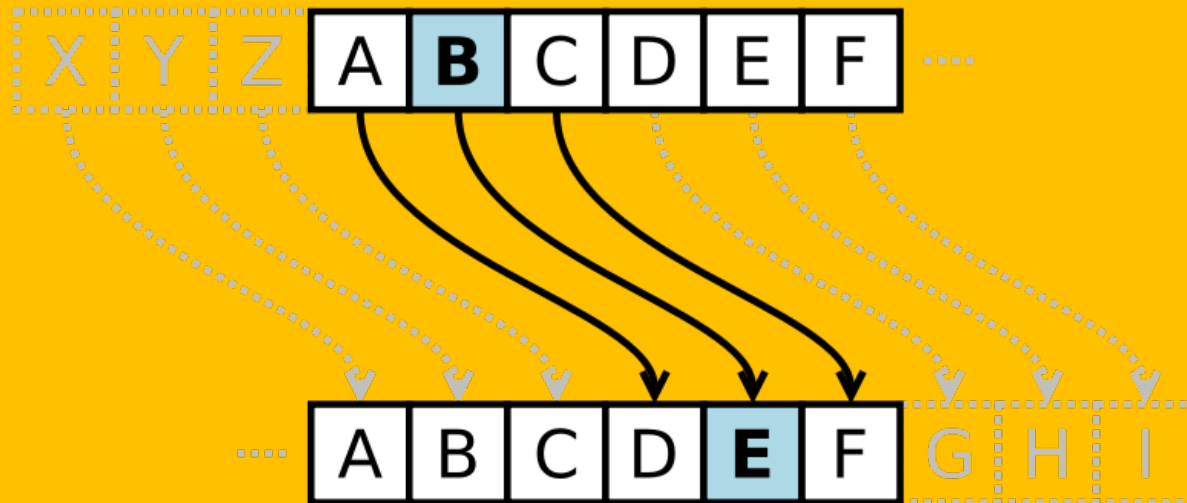
Cryptography

- * Julius Caesar developed the first modern cipher
- * It is known as the 'Caesar cipher'



Cryptography

- * Each character in the message is replaced by the character three positions ahead of it in the alphabet



Cryptography

A → D

B → E

G → ?

Z → ?

Cryptography

A	B	C	D	E	F	G	H	I	J	K	L	M
D	E	F	G	H	I	J	K	L	M	N	O	P
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Q	R	S	T	U	V	W	X	Y	X	A	B	C

Caesar cipher

Cryptography

A	B	C	D	E	F	G	H	I	J	K	L	M
D	E	F	G	H	I	J	K	L	M	N	O	P
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Q	R	S	T	U	V	W	X	Y	X	A	B	C

Decode the following message:


FURVV WKH ULYHU WRQLHKW

Cryptography

A	B	C	D	E	F	G	H	I	J	K	L	M
D	E	F	G	H	I	J	K	L	M	N	O	P
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Q	R	S	T	U	V	W	X	Y	X	A	B	C

The original message was:

CROSS THE RIVER TONIGHT

- 
- * How could we design a different Caesar cipher?
 - * Design your own code by choosing to shift the letters by a different amount
 - * See if someone else in the room can crack your code!