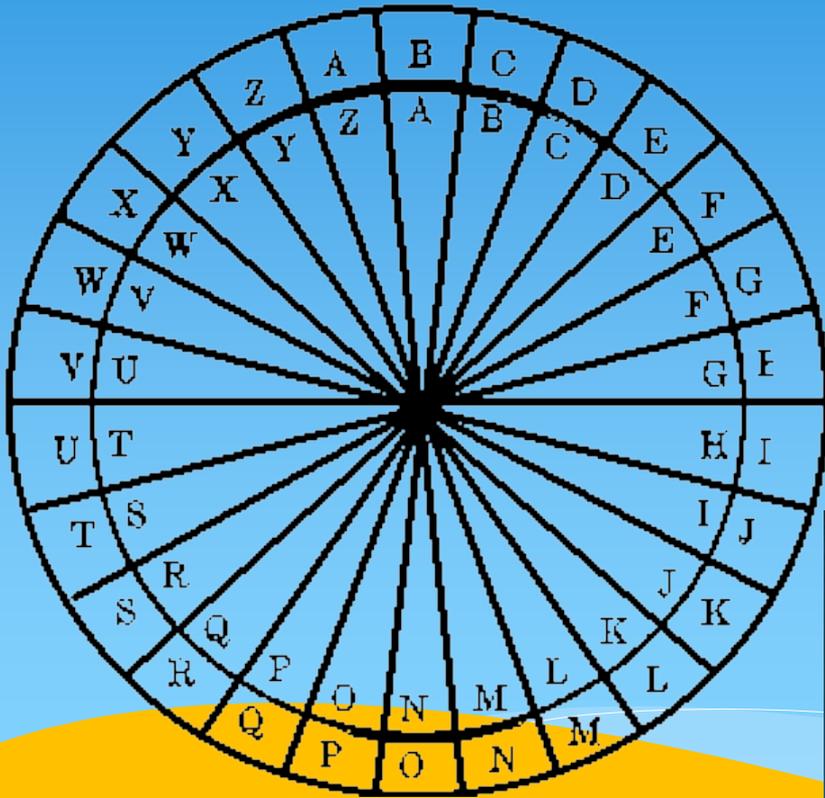


Cryptography



EMUFPHZLRFAXYUSDJKZLDKRN SHGNFIVJ
YQTQUXQBQVYUUVLLTREVJYQTMKYRDMFD
VFPJUDEEHZWETZYV GWHK KQETGFQJNCE
GGWHKK?DQMC PFQZDQMMIAGPFXHQRLG
TIMVMZJANQLVKQEDAGDVFRPJUNGEUNA
QZGZLECGYUXUEENJTB JLBQCRTBJDF HRR
YIZETKZEMVDUFK SJHKFWHKU WQLSZFTI
HHDDDUVH?DWKBFUFPWNTDFIYCUQZERE
EVLDKFEZMOQQJLTTUGSYQPFEUNLAVIDX
FLGGTEZ?FKZBSFDQVGOGIPUFXHHDRKF
FHQNTGPAECNUVPDJMQCLGUMUNEDFQ
ELZZVRRGKFFVOEEXBDMVVPNFQXKEZLGRE
DNQFMPNZGLFLPMRJQYALMGNUVPDXVKP
DQUMEBEDMHDAFMJGZNUPLGEWJLLAETG
ENDY AHR OHNLSRHEO CPTEOIBIDYSHNAIA
CHTNREYULDSL LLLNOHSNOSMRWXMNE
TPRNGATHNRARPE SLNNELEBLPIIACAE
WMTWNDITEENRAHCTENEUDRETNAEOE
TFOLSEDTIWENHAEIOYTEYQHEENCTAYCR
EIFTBRS PAMHHEWEN ATAMATEG YEERLB
TEEF OASF IOTUETUA EOTOARMAEERTNRTI
BSEDDNIA AH TTMSTEWPIEROA GRIEWFEB
AECTDDHILGEIHSITEGOEA OSDDRYDLORIT
RKLML E HAGTDHARDPNEOHMGFMFEUHE
ECDMRIPFEIMEHNLSSTTRTVDOHW?OBKR
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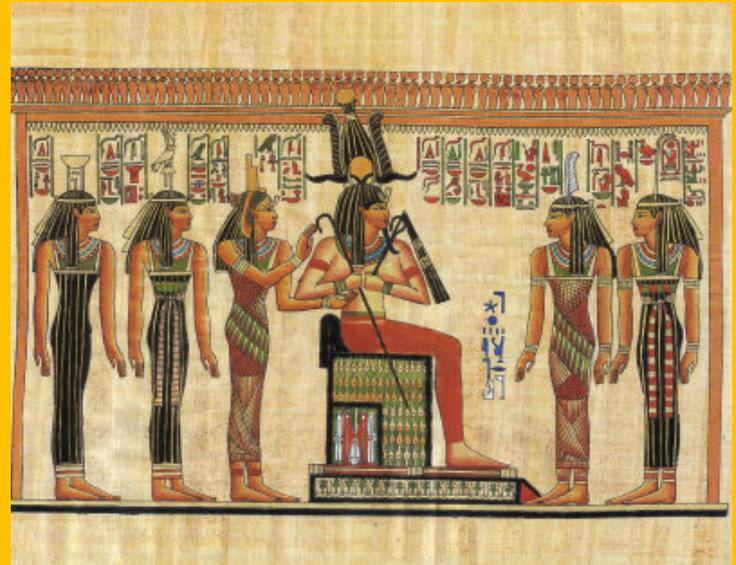
Cryptography

- * 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



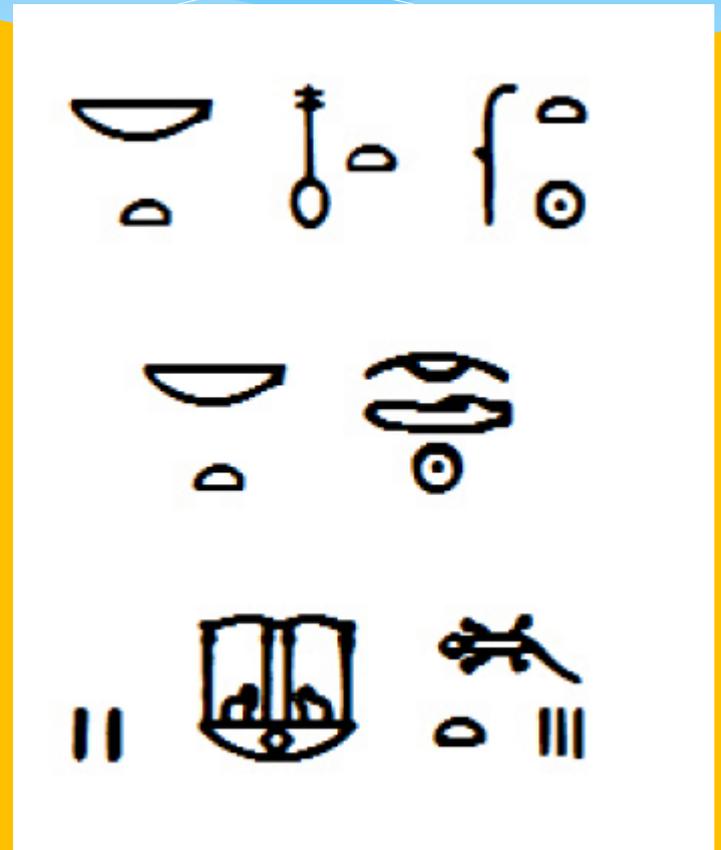
Cryptography

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.



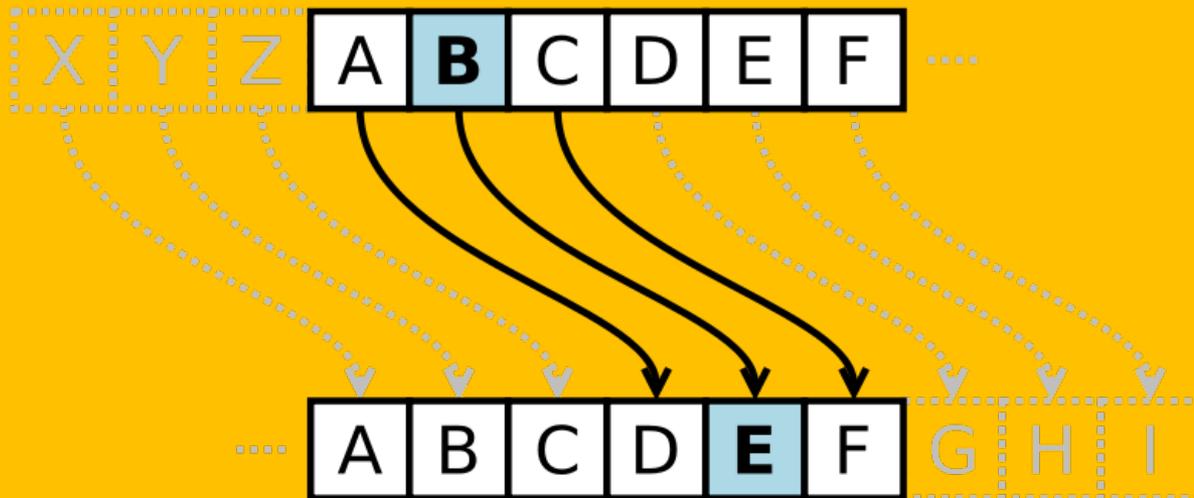
Cryptography

- * 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:

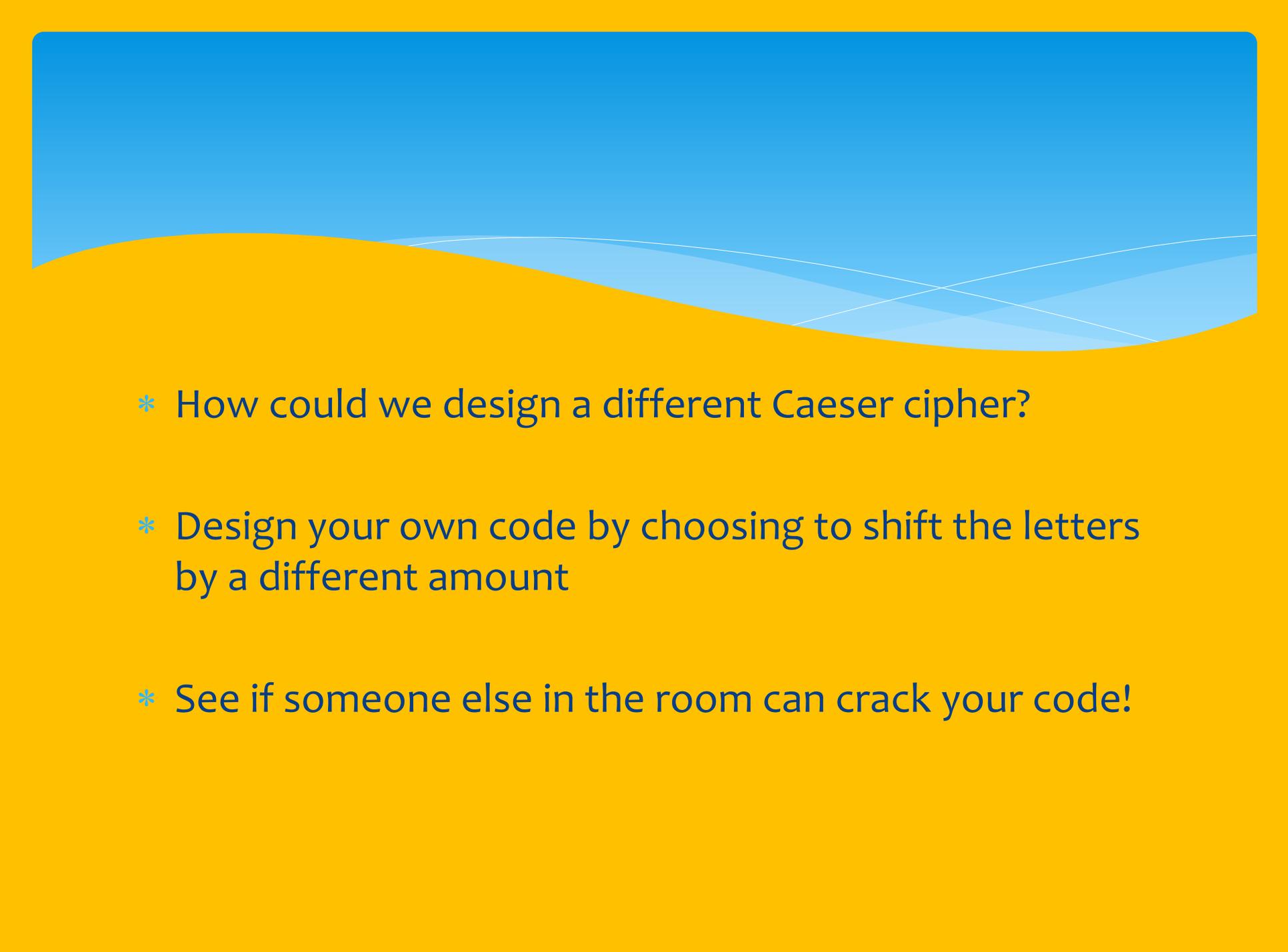
FURVV WKH ULYHU WRQLHKW

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!