

Caesar Cipher - the oldest cryptosystem

A shift cipher – attributed to Julius Caesar (100-44 BC) MEET ME AFTER THE TOGA PARTY PHHW PH DIWHU WKH WRJD SDUWB

Shift the alphabet 23 places to the right and substitute letters abcdefghijklmnopqrstuvwxyz DEFGHIJKLMNOPQRSTUVWXYZABC

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Representing data as numbers

Cryptographic algorithms are mathematical operations

→ messages and keys must be represented as numbers for instance : ASCII encoding