

Breaking Caesar cipher

Exhaustive search

ciphertext only

known plaintext

chosen plaintext

chosen ciphertext

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Yes

Statistical Analysis

Look at the first letter and get the shift

Choose “A” and get the shift

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Exhaustive search	Yes
ciphertext only	Statistical Analysis
known plaintext	Look at the first letter and get the shift
chosen plaintext	Choose “A” and get the shift
chosen ciphertext	Choose “A” and get the shift

Statistical Cryptanalysis

- ➡ Monoalphabetic ciphers do not change the relative frequency of letters in a message