

Breaking Transposition ciphers

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brute force	Small key length only
ciphertext only	Hard for large permutations
known plaintext	Match letters together
chosen plaintext	Choose ABCDE and match letters
chosen ciphertext	Choose ABCDE and match letters

The seeds of modern cryptography

. Diffusion

Mix-up symbols Transposition Cipher

2. Confusion

Replace a symbol with another Polyaphabetic Cipher

3. Randomization

Repeated encryption of the same text are different OTP