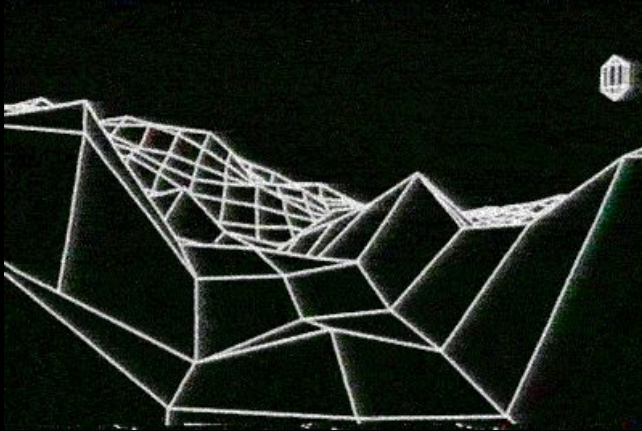


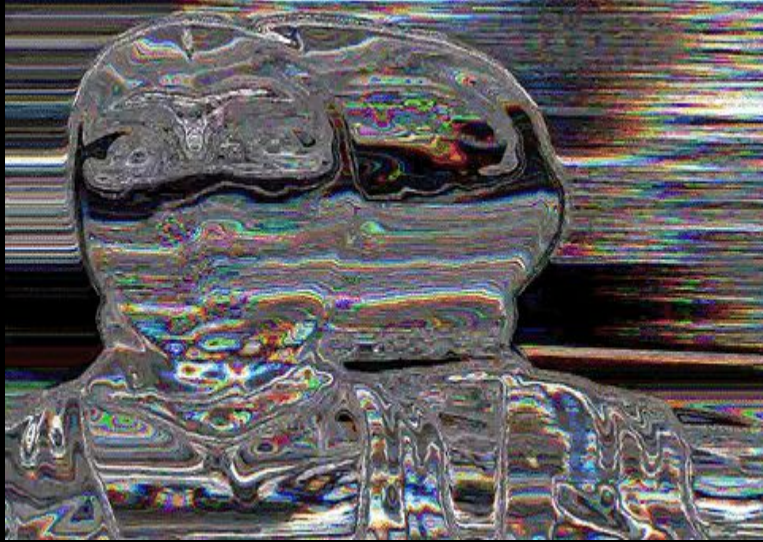


# objetivos da criptografia



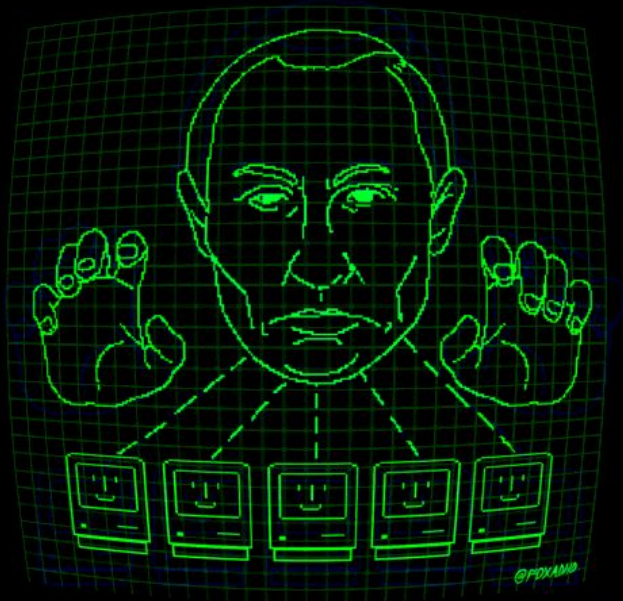
confidencialidade

a informação não pode ser  
entendida por ninguém que não  
seja o remetente



autenticação

o remetente e o destinatário  
conseguem confirmar a  
identidade do outro e a  
origem/destino da informação



integridade

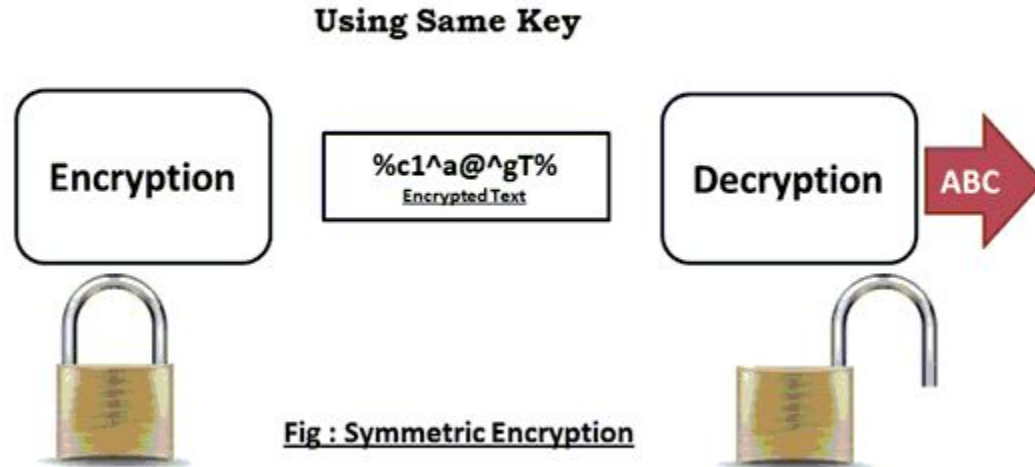
a informação não pode ser alterada  
no armazenamento nem no trânsito  
entre o remetente e o destinatário

## 2 Tipos de tratamentos da informação

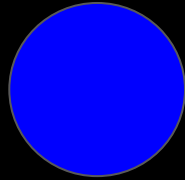
Encriptar

Desencriptar

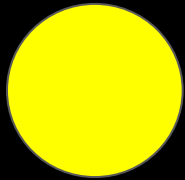
# Criptografia Simétrica



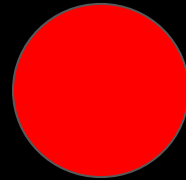
chave



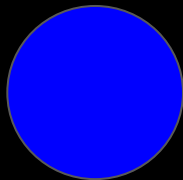
ana



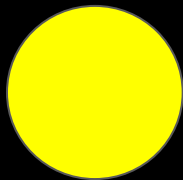
pedro



chave



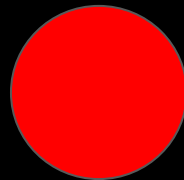
ana



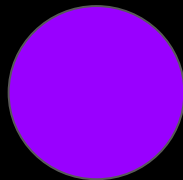
+

+

pedro

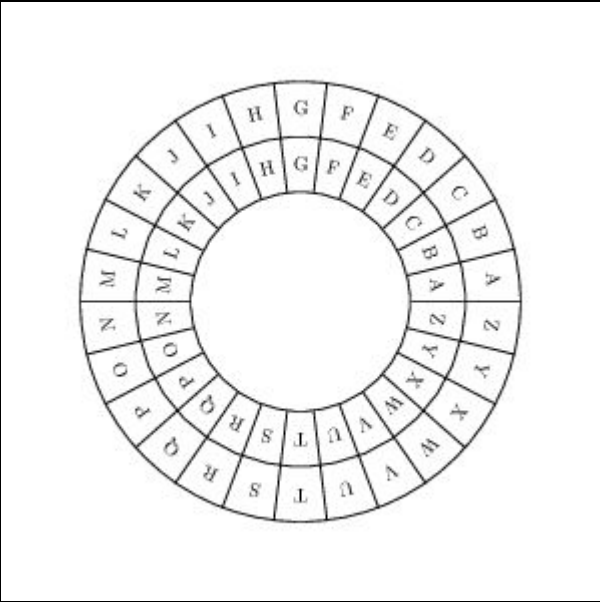


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# Tipos clássicos de criptografia

# caesar cipher

# vigenère cipher



# Criptografia Assimétrica

- chaves públicas

criptografia

- chaves privadas

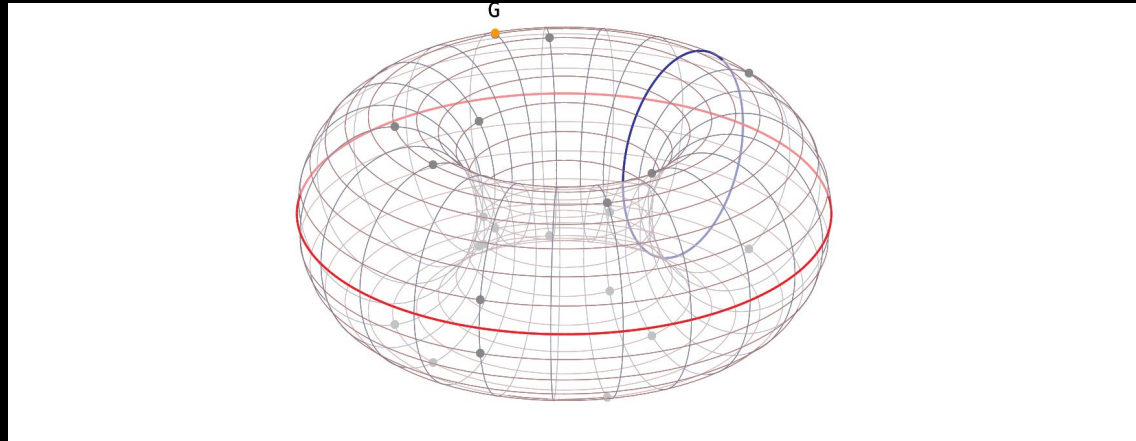
descriptografia

ex: RSA

# RSA (Rivest-Shamir-Adleman)

- Um dos primeiros algoritmos a usar chaves públicas
- Utiliza-se da dificuldade matemática de calcular logaritmos discretos

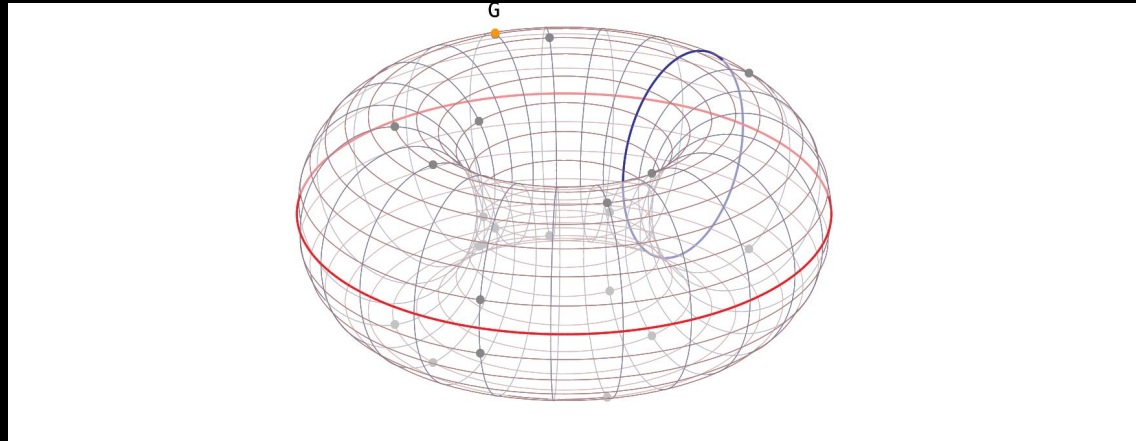
# Curvas Elípticas



# Curvas Elípticas



# Curvas Elípticas

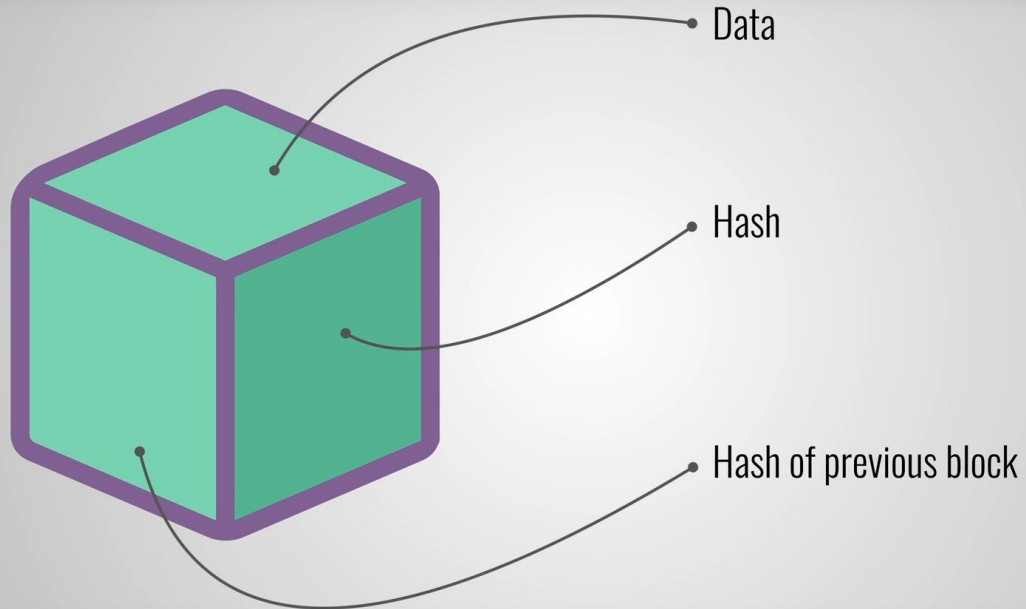


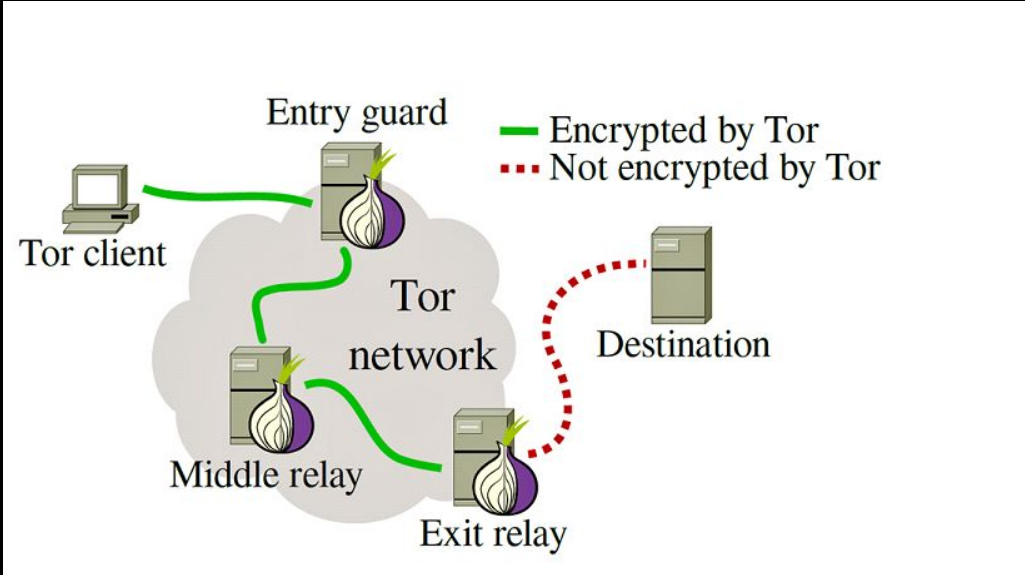
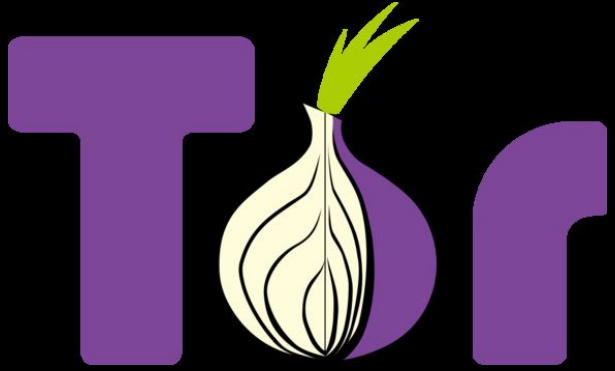
# Criptomoedas











★ IL N'Y A PAS LA LIBERTÉ SANS VIE PRIVÉE ★ NÃO HÁ LIBERDADE SEM PRIVACIDADE ★  
★ THERE IS NO FREEDOM WITHOUT PRIVACY ★ NO HAY LIBERTAD SIN PRIVACIDAD ★

010110110 11010110110  
0101000101 00101000101  
10100 01001 10100 01001  
01011 00100 01011 00100  
11010 11010 11010 11011  
00101 00101 10110 10110  
10100 10100 10100 10100  
01011 01011 11001 11011  
11010 11010 10110 10110  
00101 10110 00101 10110  
10100 01001 10100 01001  
0101101001 01011 00100  
010110110 11010 11011

