Asymmetric encryption
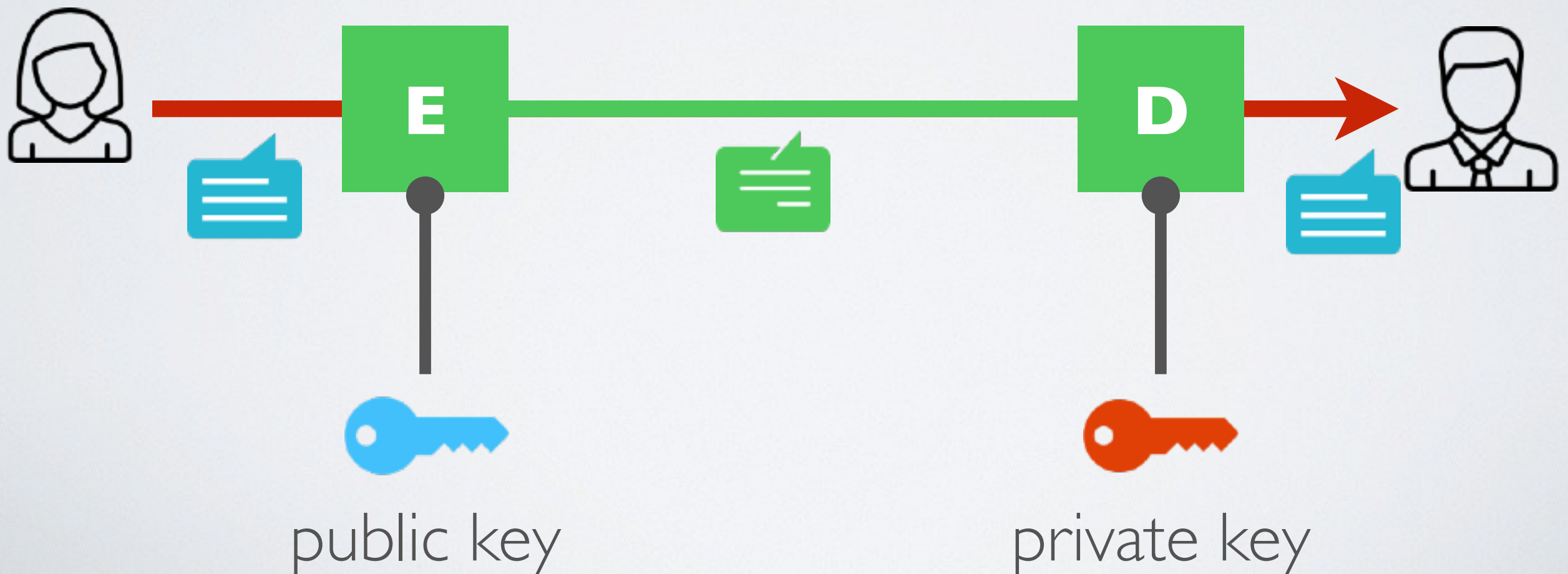## a.k.a Public Key Cryptography

➡ The public key for encryption
➡ The private key for decryption

Asymmetric keys

$$\mathbf{Ks}_A, \mathbf{Kp}_A \qquad\qquad \mathbf{Kp}_A \qquad\qquad \mathbf{Kp}_A$$

Alice generates a pair of asymmetric keys

- $\mathbf{Ks}_A$ is the secret key that Alice keeps for herself

- $\mathbf{Kp}_A$ is the public key that Alice gives to everyone (even Mallory)

➡ These two keys $\mathbf{Ks}_A$ and $\mathbf{Kp}_A$ work together