Asymmetric keys

Ks_A, Kp_A







Alice generates a pair of asymmetric keys

- KsA is the secret key that Alice keeps for herself
- Kp_A is the public key that Alice gives to everyone (even Mallory)
- ightharpoonup These two keys Ks_A and Kp_A work together

Asymmetric encryption for confidentiality



Bob encrypts a message m with Alice's public key KpA

- Nobody can decrypt m, except Alice with her private key KsA
- ✓ Confidentiality without the need to exchange a secret key