3DES (Triple DES)

$$3DES_{k1,k2,k3}(m) = E_{k3}(D_{k2}(E_{k1}(m)))$$

➡ Effective key length (entropy) : 112 bits

✓ Very popular, used in PGP, TLS (SSL) …

◉ But terribly slow

AES - Advanced Encryption Standard

Timeline

- **1996** NIST issues public call for proposal

- **1998** 15 algorithms selected

- **2001** winner was announced