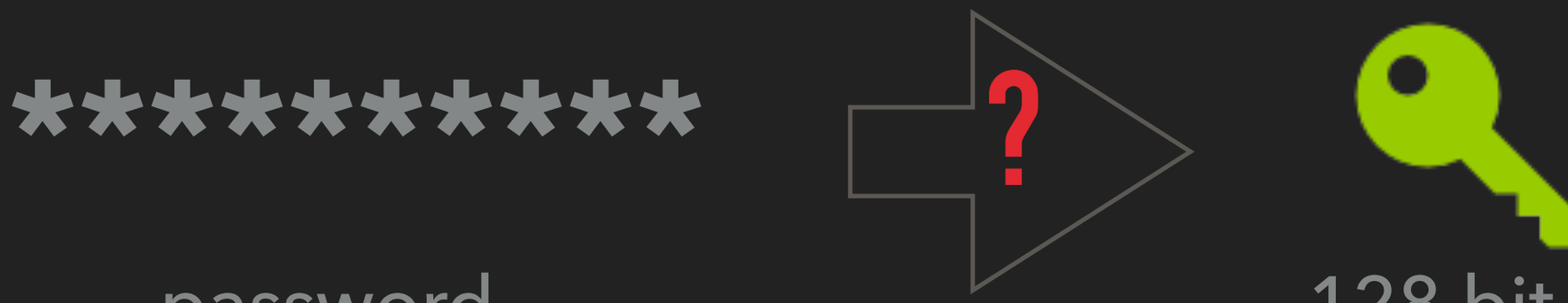
FROM PASSWORD TO KEY

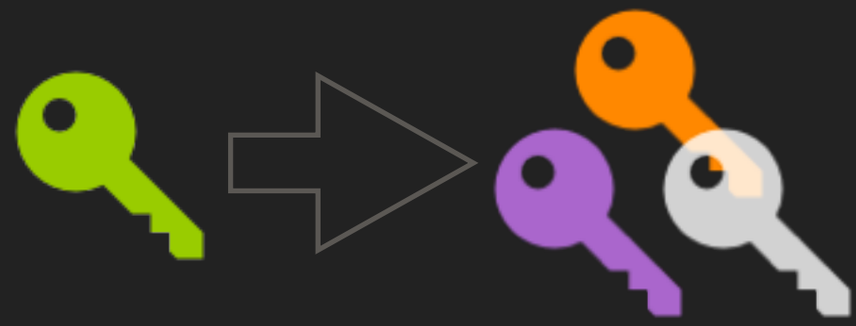


password

128 bit key

- Key derivation functions (KDF) convert passwords to keys
- For good (21+ chars) passwords use HKDF (RFC5869)
- Else: use a KDF with brute force protection (*)
  - SCRYPT (RFC7914)
  - PBKDF2 (RFC2898)

(*) *Brute force protection*: The function is designed to be very slow (up to seconds). This prevents enumeration attacks.



PATTERNS

KEY DERIVATION 2: FROM 1 TO N