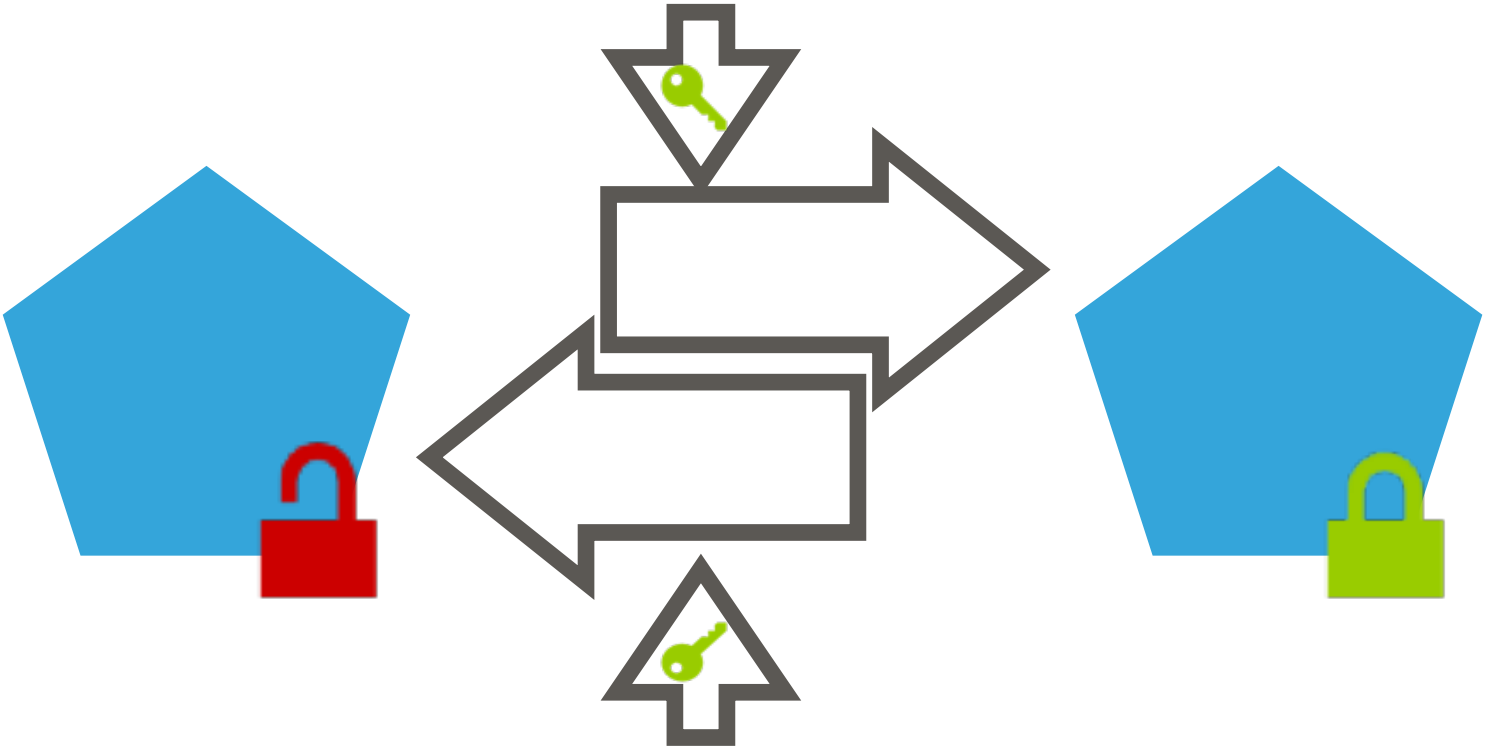
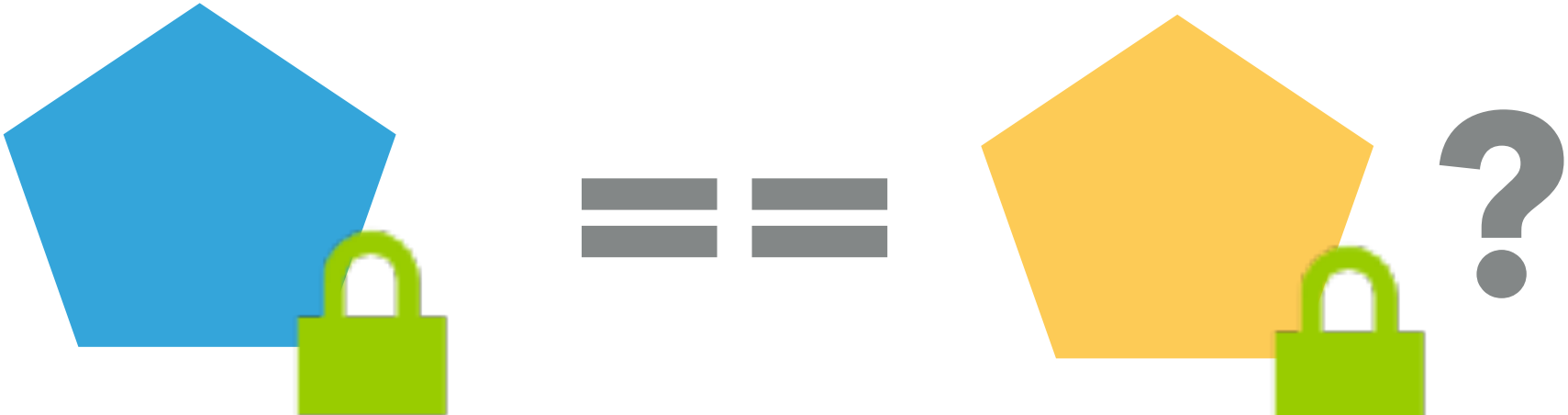
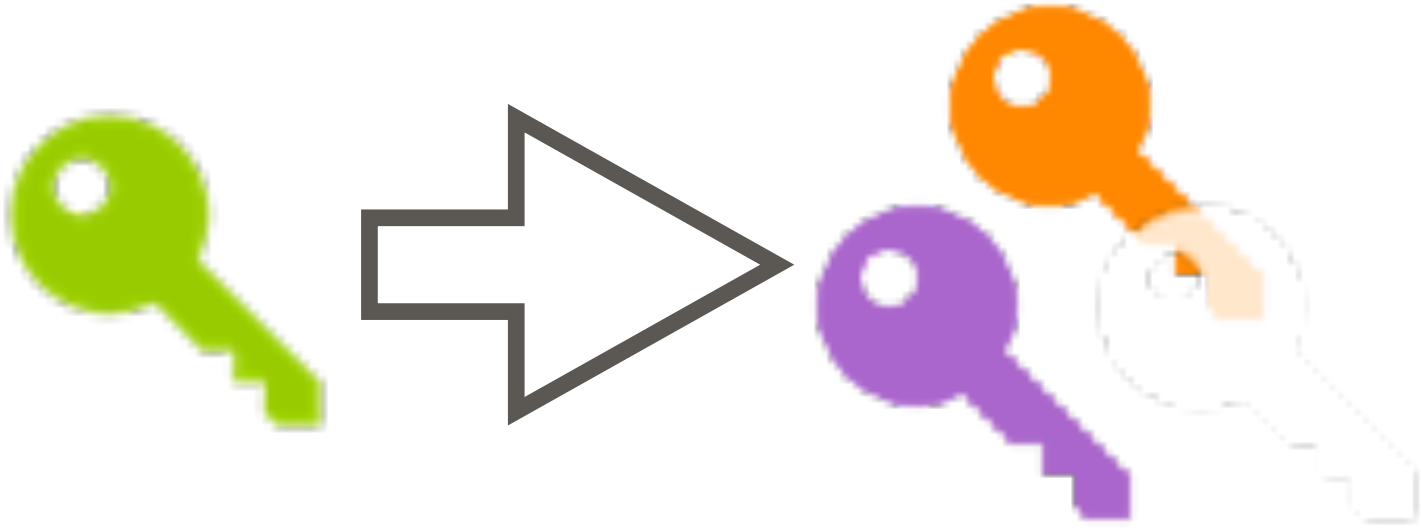
PATTERNS

CONTENT ENCRYPTION

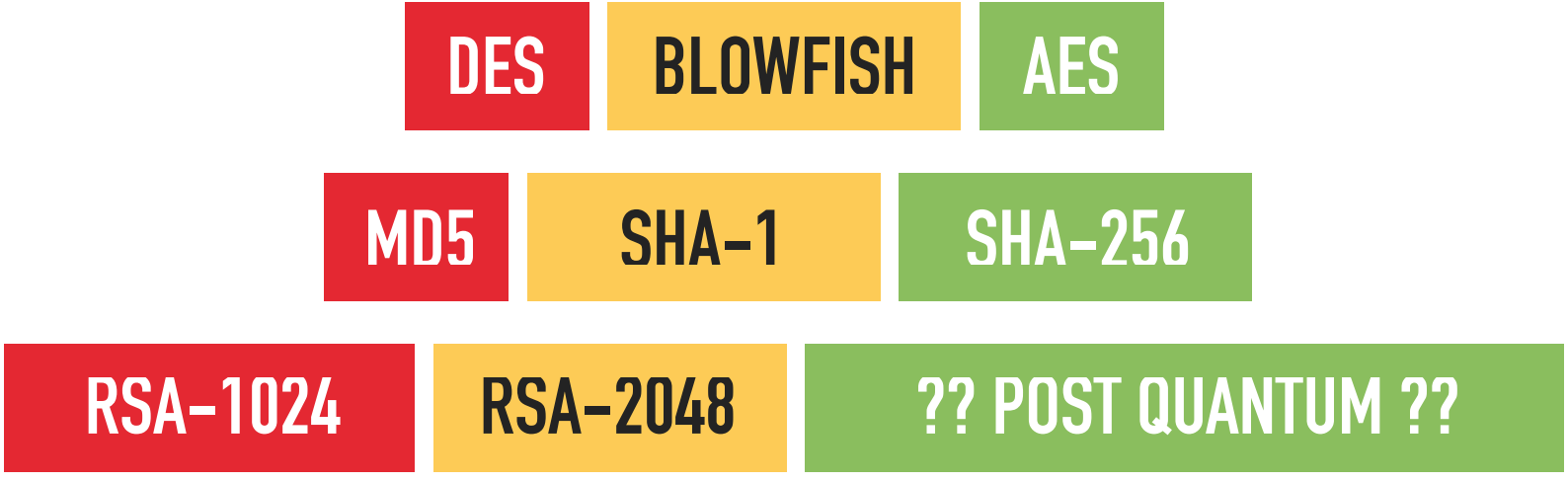
39

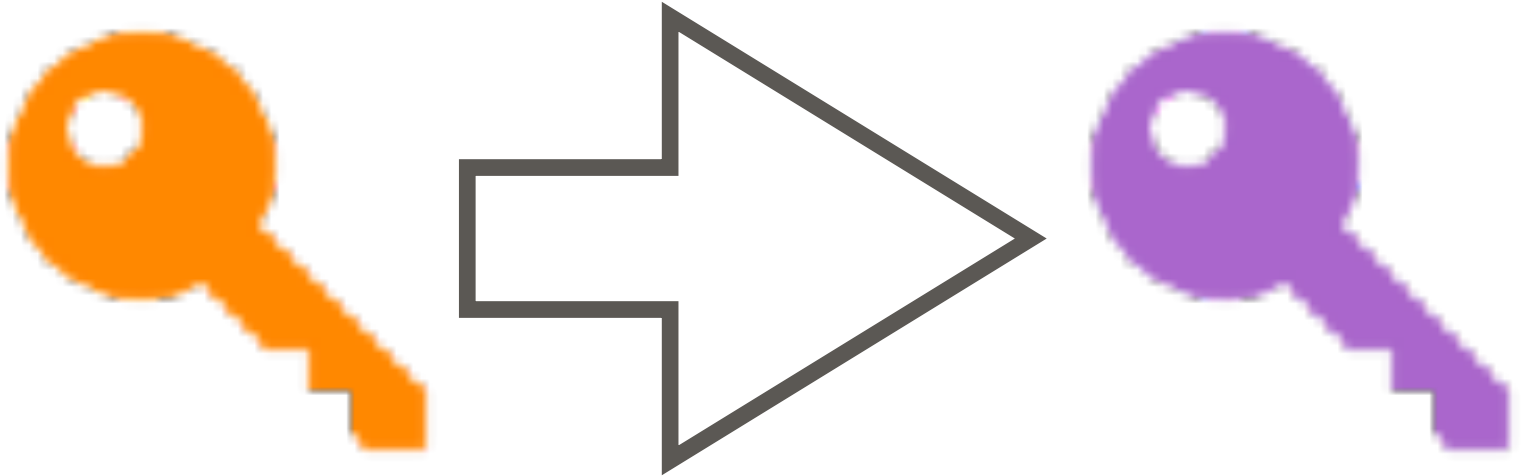


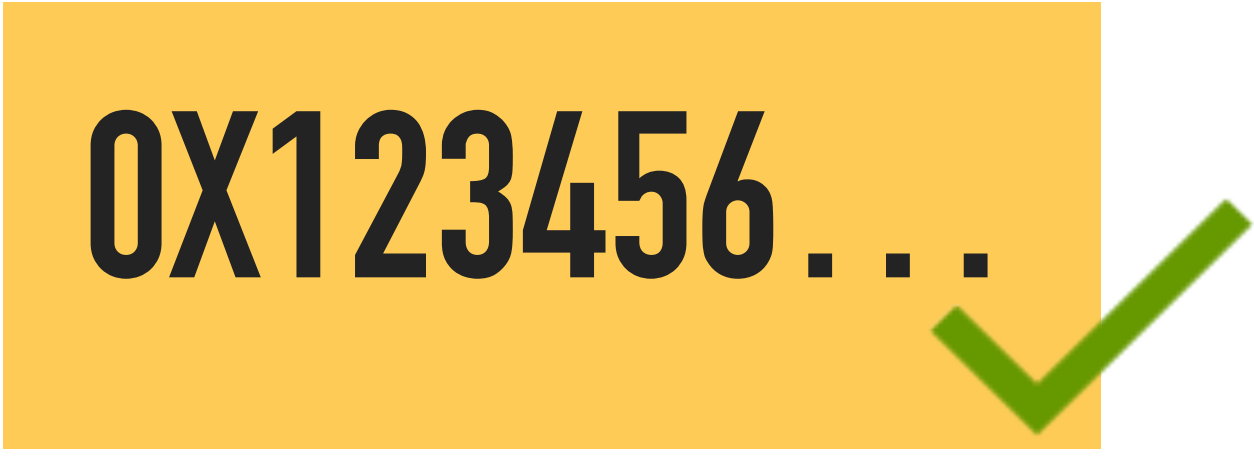




- [x] Data treatment …
- [x] Use existing …
- [x] …


DES
BLOWFISH
AES
MD5
SHA-1
SHA-256
RSA-1024
RSA-2048
?? POST QUANTUM ??

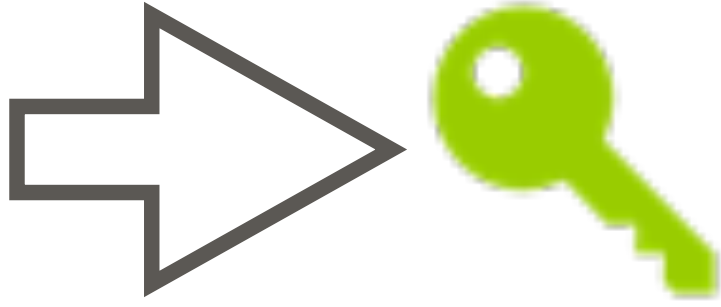


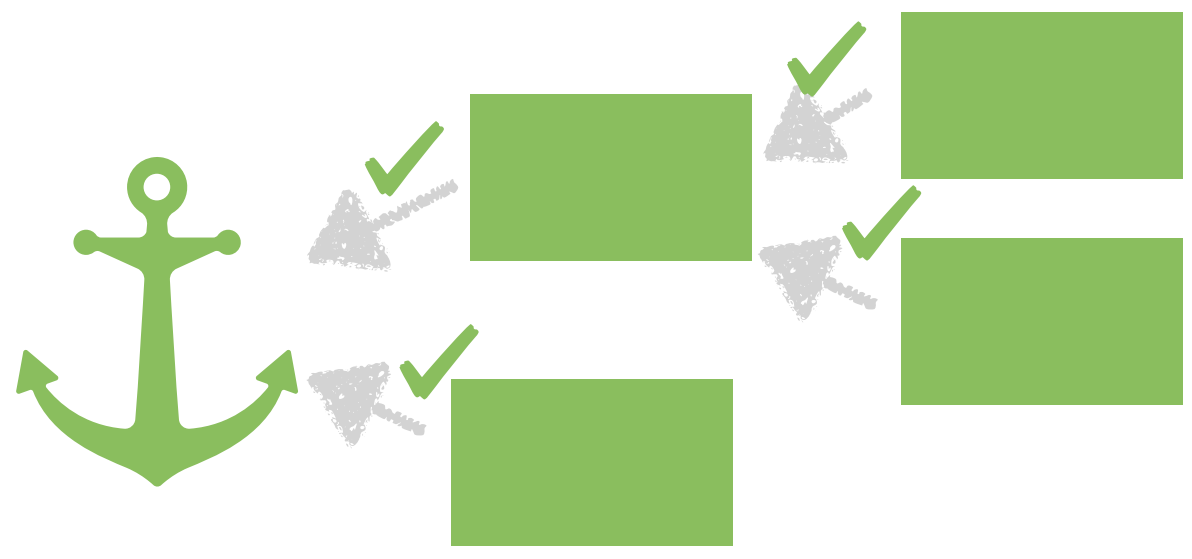

0X123456...

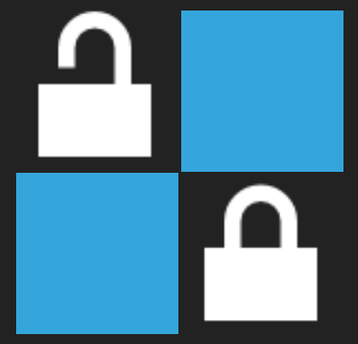
```
int getRandomNumber()
{
    return 4;  // chosen by fair dice roll.
               // guaranteed to be random.
}
```

DATA

****



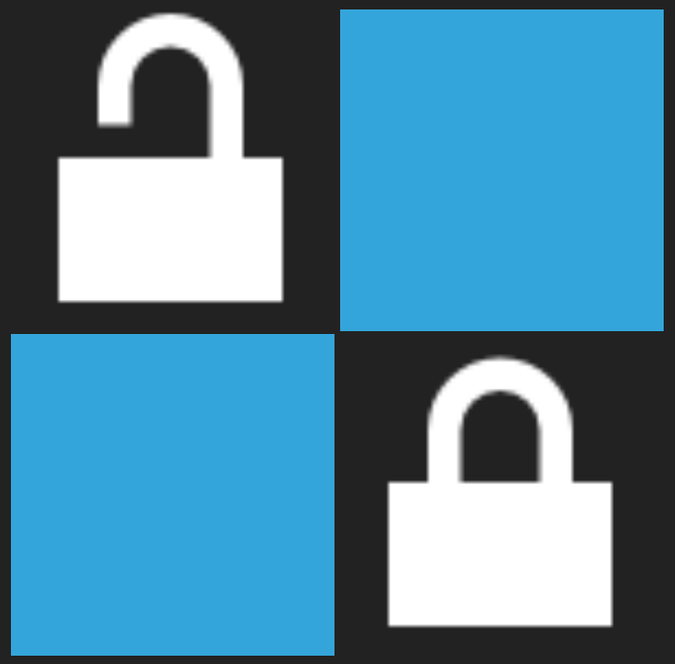


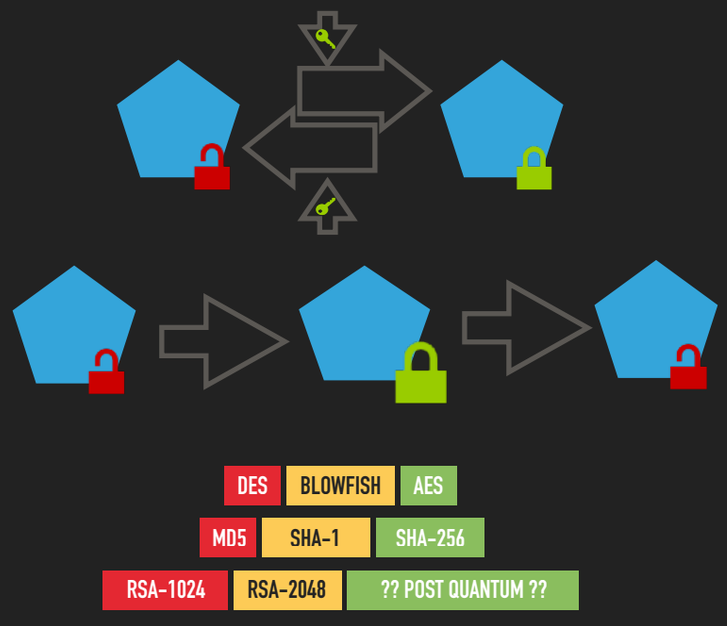


MOST IMPORTANT ADVICE: GET AN EXPERT OR AT LEAST READ AND UNDERSTAND THE DOCUMENTATION!

Like all power tools: Better RTFM than to lose an eye!

- At least be able to explain: “Hash vs. encryption”, “Integrity vs. encryption”, “Stream vs. block”, “Mode of operation”, “IV”, “Nonce”, “Padding”, “Key derivation”
- Identify and name your trust anchors





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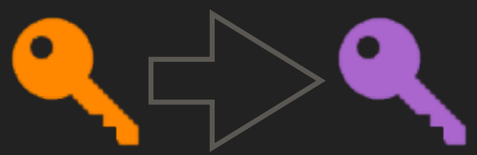
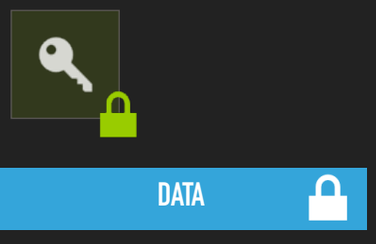
- [x] Use existing …
- [x] …

0X123456…

CONTENT ENCRYPTION

PATTERNS



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