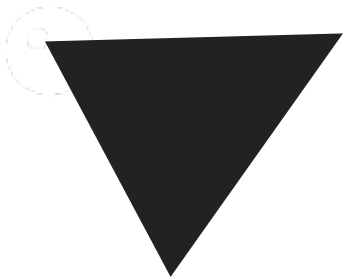
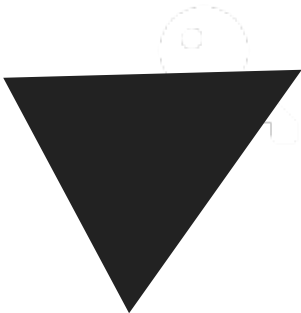
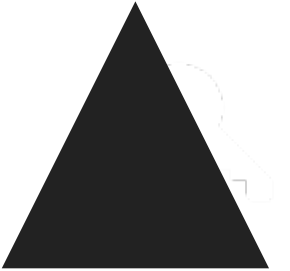


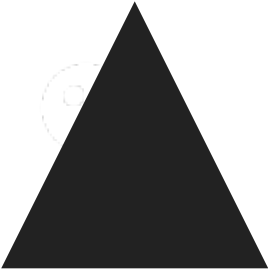


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SECRET SHARING



72

Problem: What happens when Alice forgets her password?

Solution: Use cryptographic secret sharing for recovery



Alice

Justus



Peter



Mathilda



Bob

Alice will split her secret key (e.g. with Shamir) in such a way,
that any three of her four trusted friends can restore the key.

Alice trusts her friends only so far.
But she thinks it is very unlikely that
three of them conspire together
against her.





Justus



Peter



Bob



Mathilda



Alice



Problem: What happens when Alice forgets her password?

Solution: Use cryptographic sealing for recovery

Alice will split her secret key (e.g. with Shamir) in such a way,

that any three of her four trusted friends can restore the key.



such, that the secret can be restored with

Secret sharing ("t out of n") share a secret

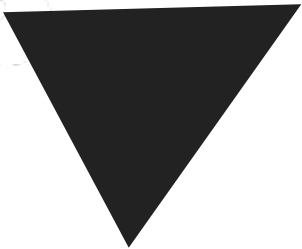
any of the n (here 4) parts.

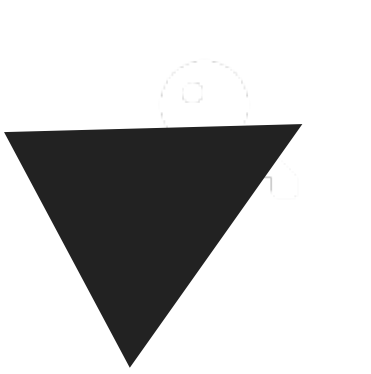
This can be used for secret recovery

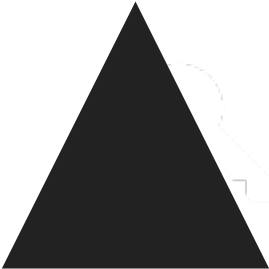
without a single point of trust (failure).

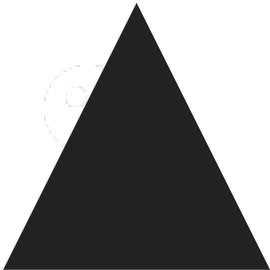












7

3



Alice

Justus



Peter



Mathilda



Bob

