



JENNER

* * * * *



FROM PASSWORD TO KEY



7

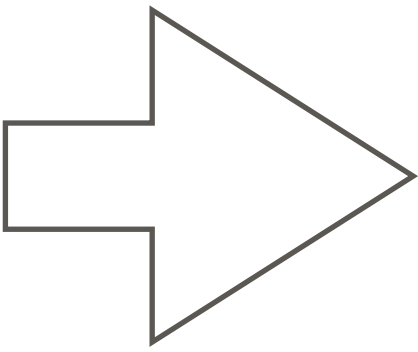
5

128bitkey





password





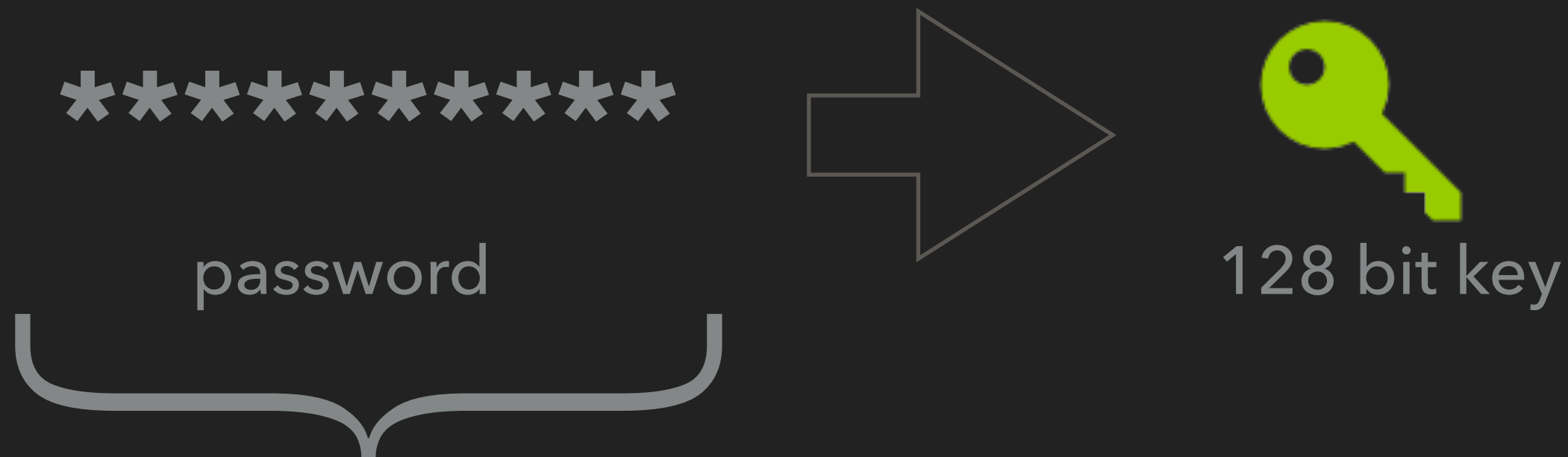
- ▶ *A random password has
~ 6 bits per character (*)*
- ▶ A 128 bit key needs ≥ 21 character passwords

(*) a-zA-Z0-9 \rightarrow ~64 different values per character (2^6). A 128 bit passwords must be ≥ 21 characters long ($128/6$)

Secure passwords are *very* long

FROM PASSWORD TO KEY

***** ➡ 



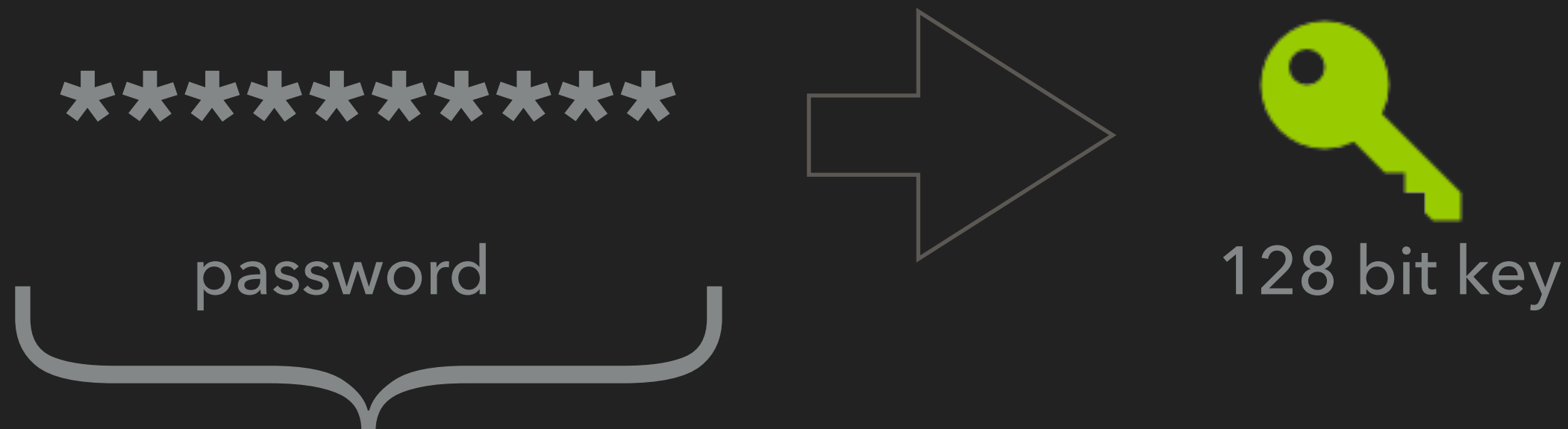
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▶ aw92SDAVg1kqusabvgw38



▶ 128 bit

▶ 3o8uGsdA



▶ 8 chars, 48 bit (cracked in hours to days)

CREATE YOUR PERSONAL PASSWORDS USING A PASSWORD MANAGER!