

Locks

A brief synoptic presentation

10.06.2025

Autumn Luzovich (they/them/theirs)

Why do locks exist?

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- To secure valuable items, assets, areas
- To protect people for safety reasons (e.g., electrical breaker, power metering)

Why do (different) locks exist?

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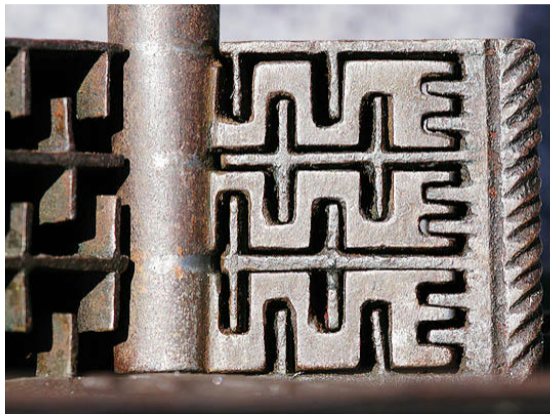
- Some locks are meant more as a means of caution. In the electrical breaker/power meter example, the focus is more to prevent inadvertent tampering that could cause physical harm.
- Others are specifically focused on assets protection, or a mixture of both.

1 Typical approach to lock integrity

Keyways

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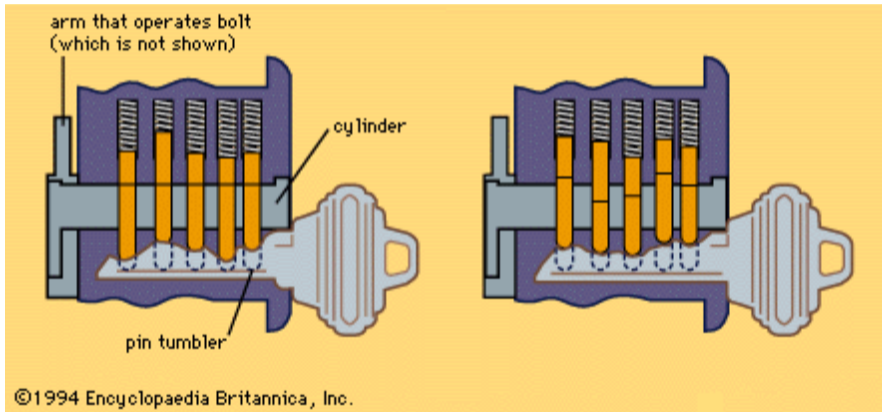
The shape of the slot that the key goes into.



Locks & Keys – Nick Gessler

Permutations

The number of combinations it takes to brute-force an identical key.



Yale Lock – Britannica

How physically resistant the lock is to tampering.

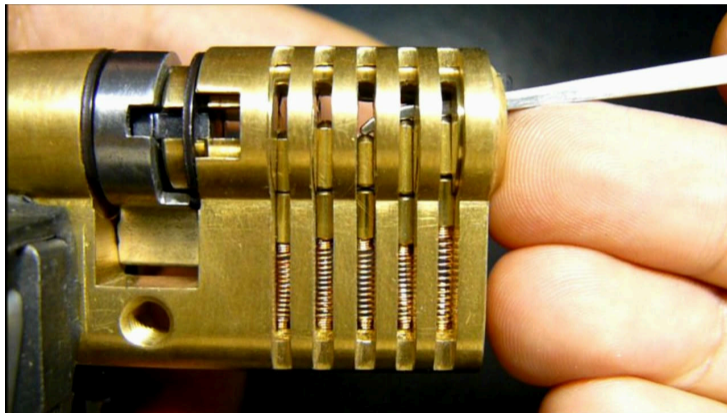


Ep. 927 — Lock Picking Lawyer

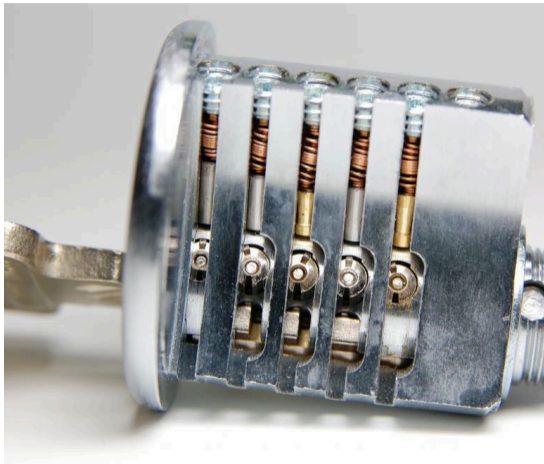


SAF Lock — Altor

A weak link in the chain can decimate the integrity of a lock.



Single Pin Picking



Medico³



Bowley Lock