

**SIGPwny @ UIUC**

Lockpicking

# News of the Week

- [Equifax CEO testifies before Congress](#)
- [Russian government allowed to examine ArcSight](#)
- [Yahoo reports 3B+ users compromised](#)
- [Multiple issues in dnsmasq](#)
- [White House exploring SSN replacements](#)

# Lockpicking



# Legal Warning

- Only pick locks that you own or have permission to pick
- Do NOT:
  - pick University locks
  - pick your apartment lock
  - pick locks that you rely on

# Legal Warning

- Lockpicking is a hobby - it is not illegal to own a pick set (in Illinois!)
- Laws differ by state
- Illinois - bump key need to have certification
- [Lockpicking Laws by state](#)

# Legal Warning

- Illinois - bump key is illegal to own



# Tools

- Hook pick (what we will be using)
- Diamond pick
- Rake
- Tension wrench

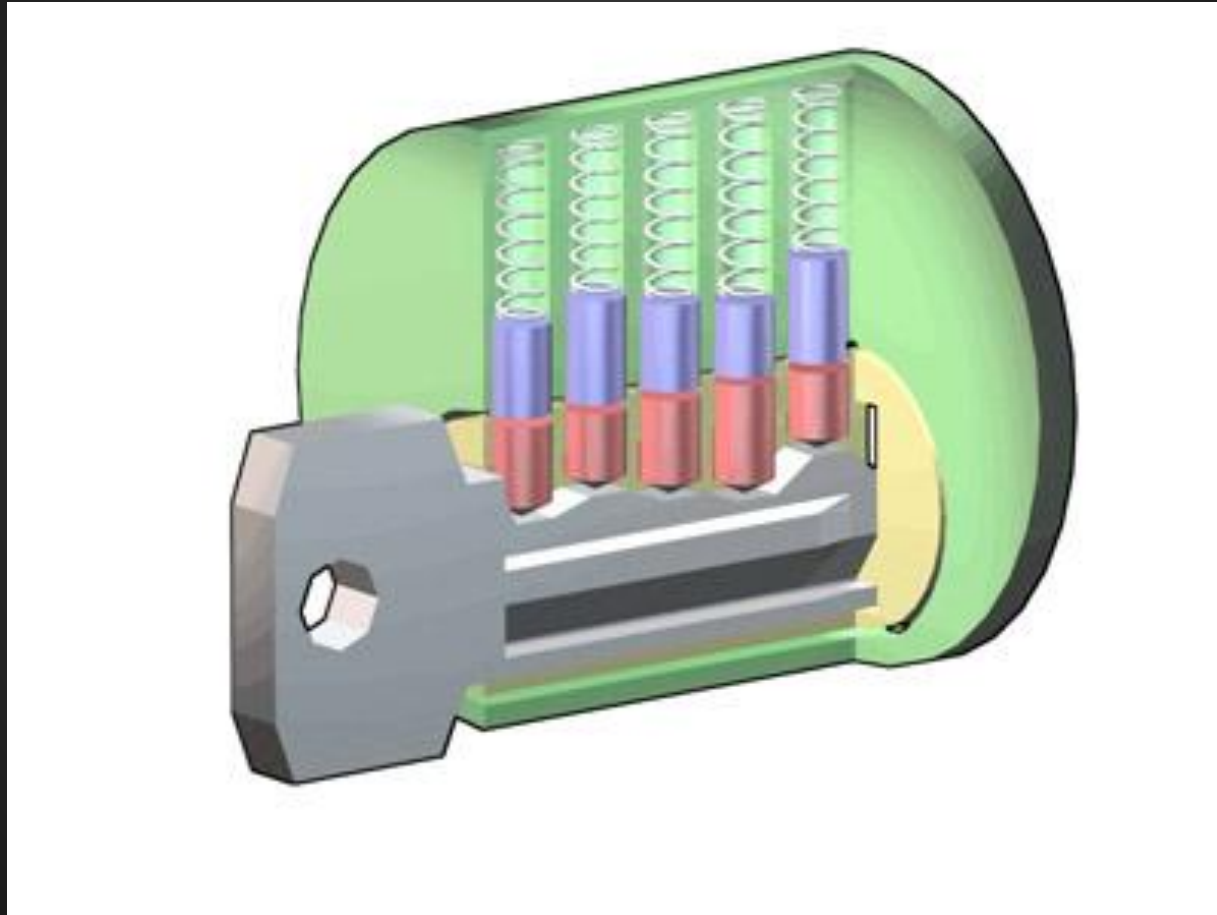


# Tools



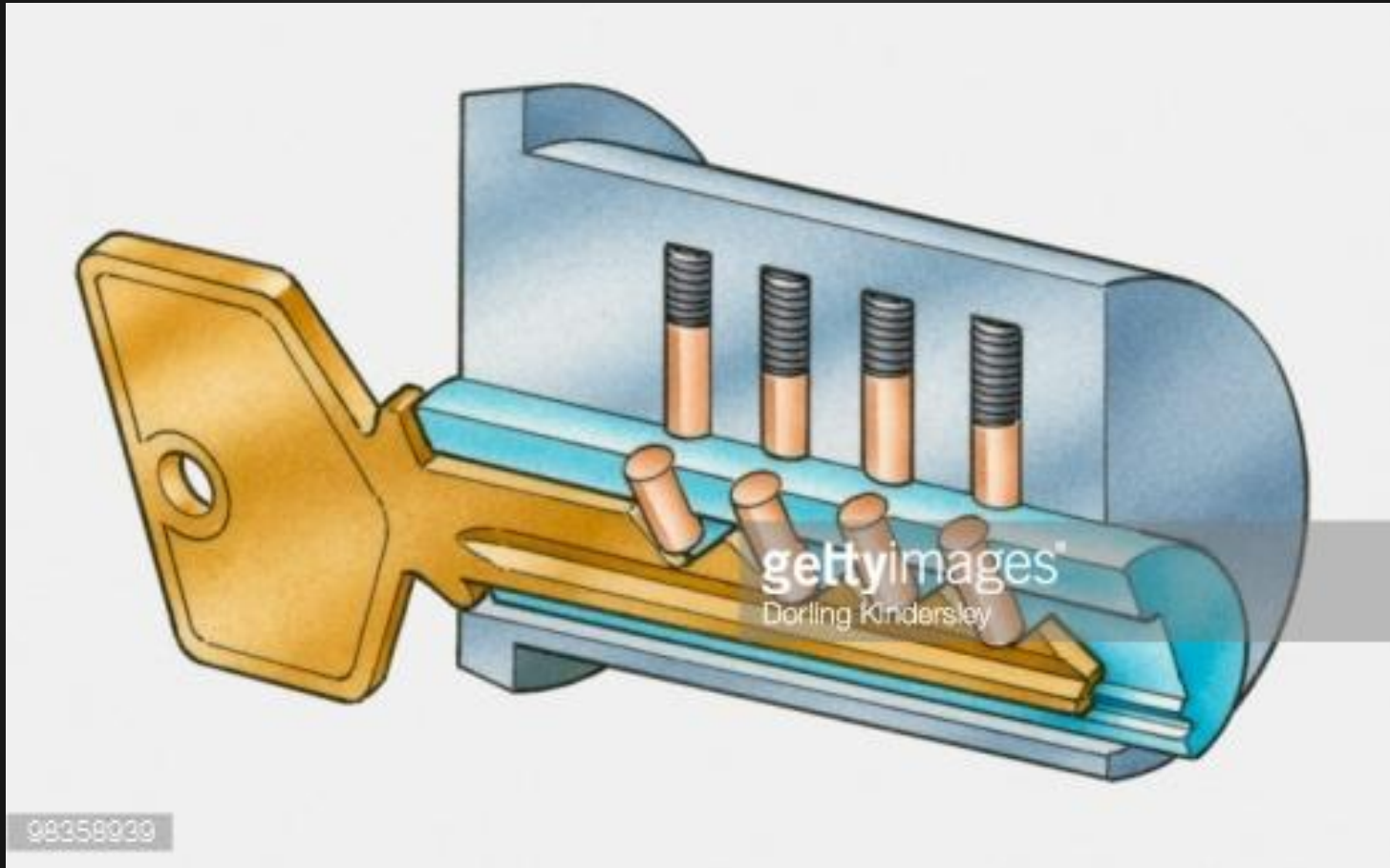


# How a Lock Works



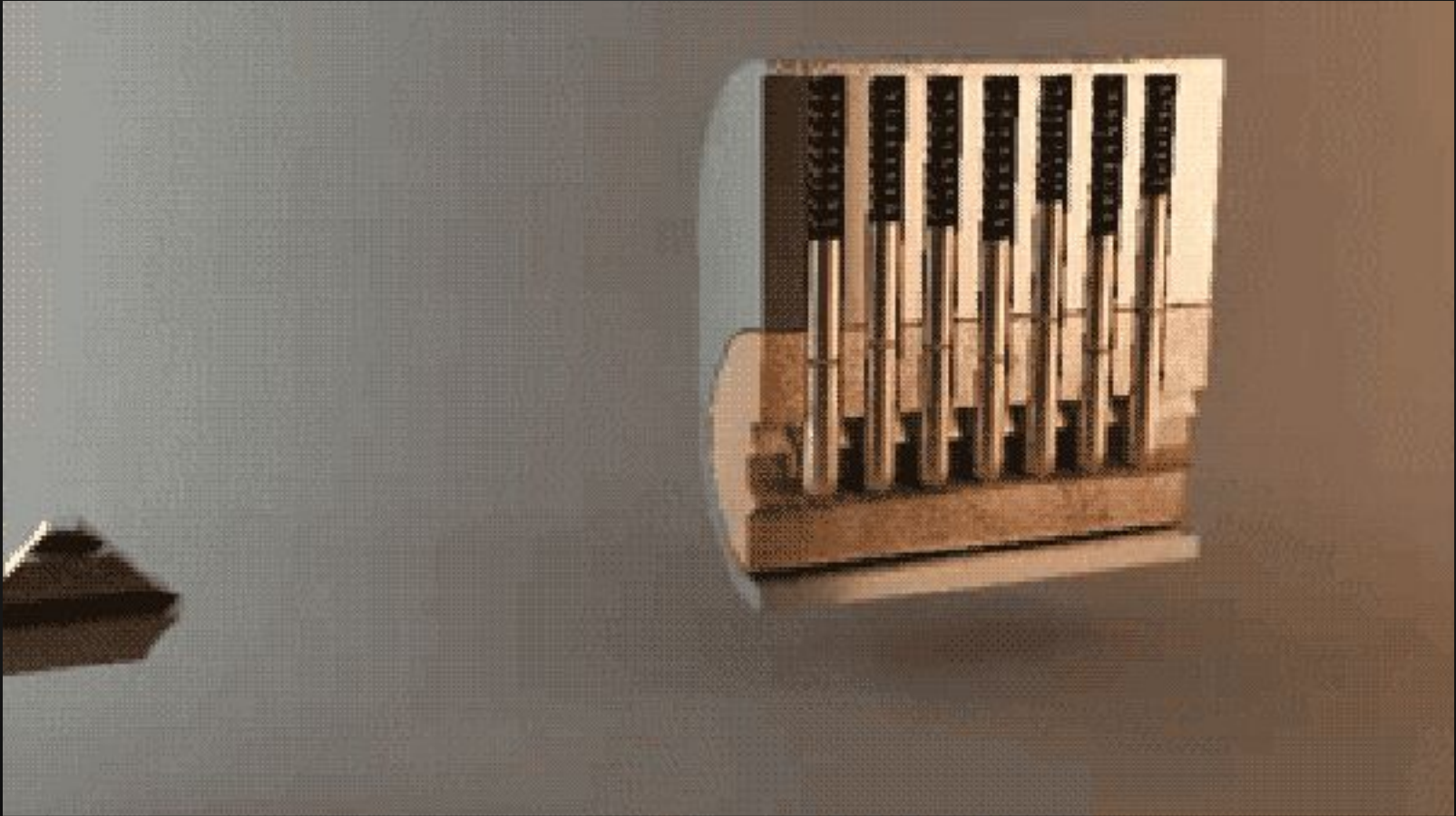
[https://www.locksonline.co.uk/community/wp-content/uploads/2013/05/Pin\\_tumbler\\_with\\_key.jpg](https://www.locksonline.co.uk/community/wp-content/uploads/2013/05/Pin_tumbler_with_key.jpg)

# How a Lock Works



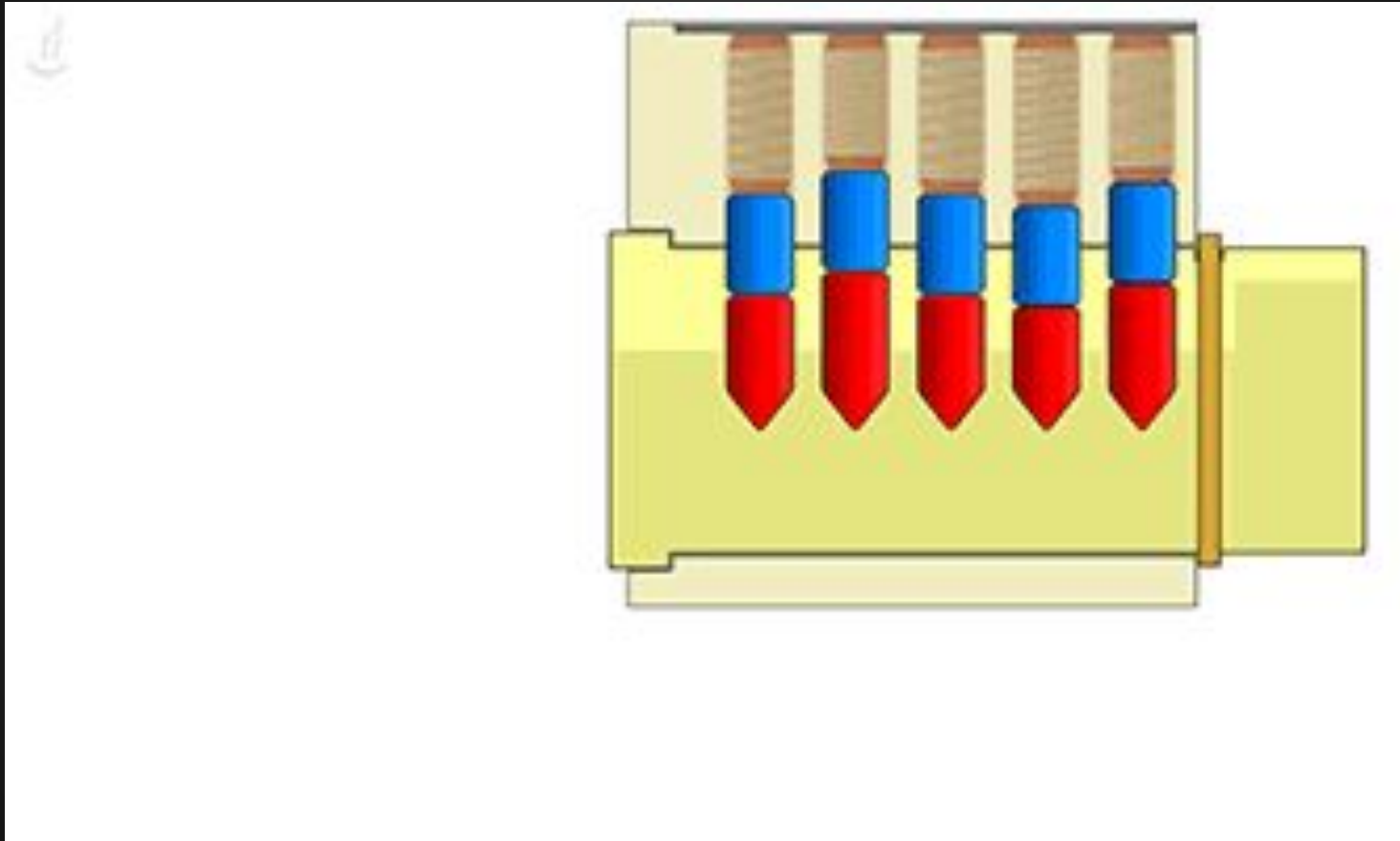
<http://cache1.asset-cache.net/gc/98358939-cross-section-illustration-of-key-in-lock-gettyimages.jpg?v=1&c=IWSAsset&k=2&d=LjrAac627J8t3tffp9kaOu2d2MI9aQSjVBbhXPCjj01VnI707kiy0WGFTRCftZinI%3BEYSdrboYmrprnEhrlyEcA%3D%3D>

# How a Lock Works (gif)



<http://randommization.com/2013/01/28/how-keys-work-gif/>

# Picking a lock (gif)



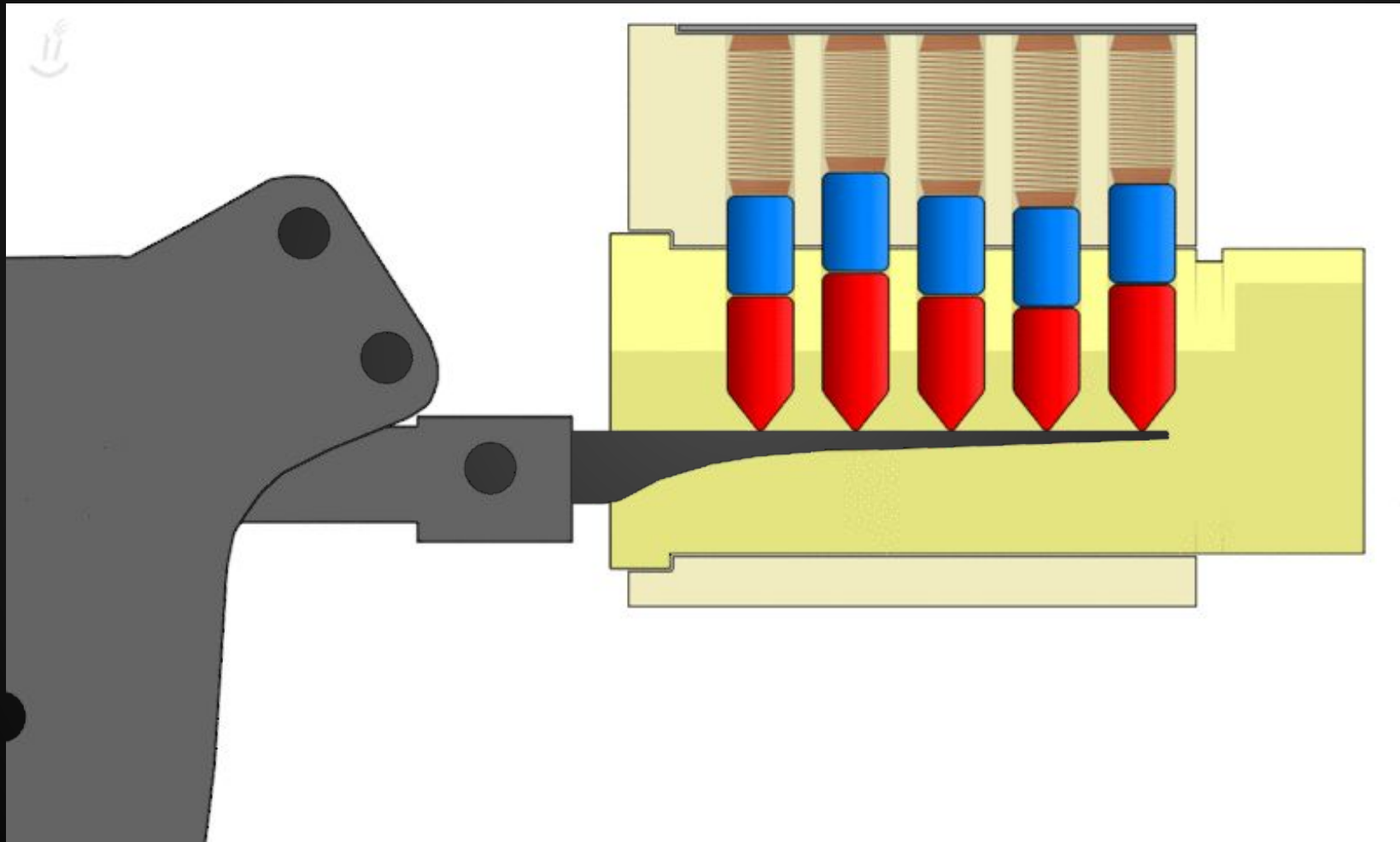
<http://i.imgur.com/Txh5y.gif>

# Bump Keys





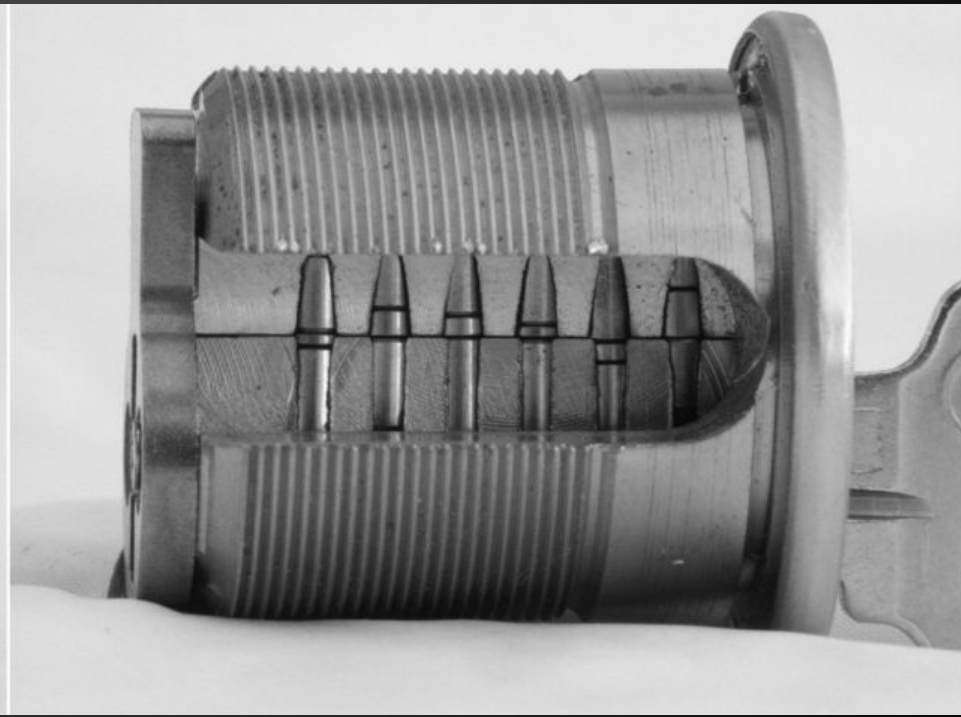
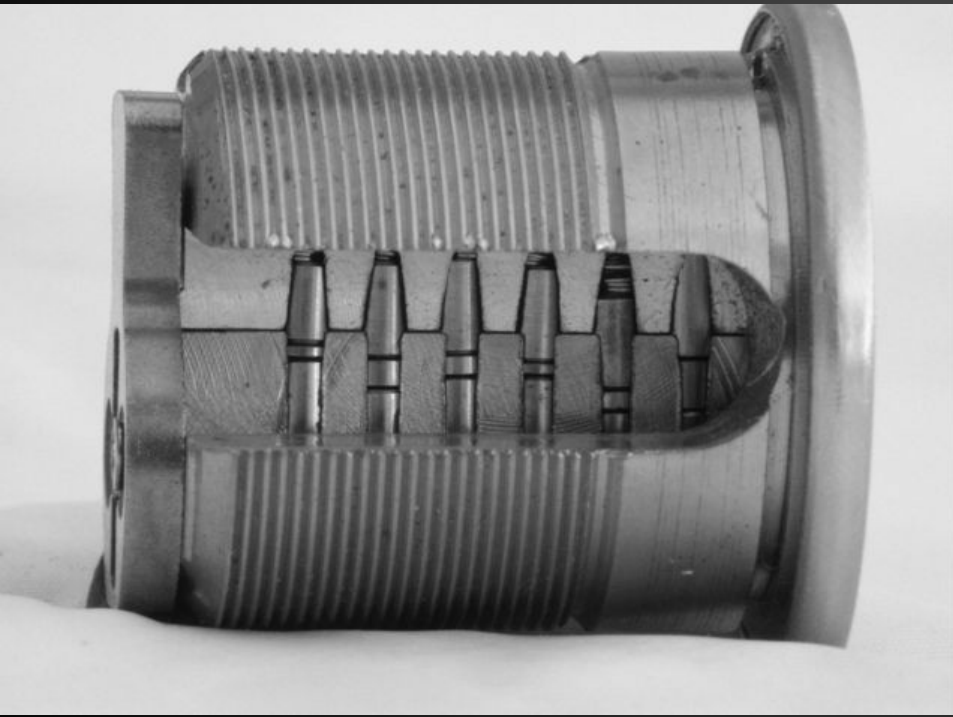
# Bump Keys





# Master Keys

<http://www.crypto.com/papers/mk.pdf>



<http://bit.ly/2yrCNQU>