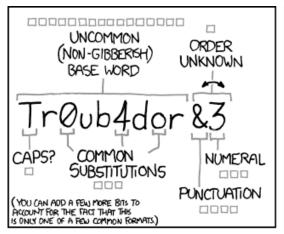
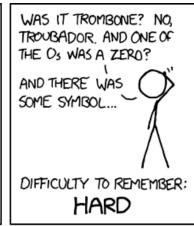
## Obscurity in Cybersecurity

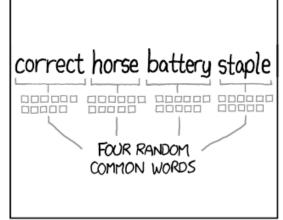
by Vitaly Ford
Arcadia University

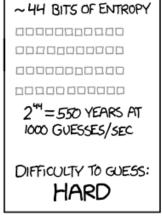
#### Passwords? Who uses it anyway...

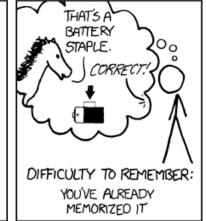












THROUGH 20 YEARS OF EFFORT, WE'VE SUCCESSFULLY TRAINED EVERYONE TO USE PASSWORDS THAT ARE HARD FOR HUMANS TO REMEMBER, BUT EASY FOR COMPUTERS TO GUESS.

#### Have you been hacked? Let's see...

https://haveibeenpwned.com/

#### Cracking 12 Character and Above Passwords

https://www.netmux.com/blog/cracking-12-character-abovepasswords

#### Password Managers to the Rescue!

https://www.lastpass.com/

# Annoying popup ads? Too many ads on YouTube?

#### uBlock Origin plugin

https://chrome.google.com/webstore/detail/ublockorigin/cjpalhdlnbpafiamejdnhcphjbkeiagm?hl=en

## Dark Search Engine for... everything

https://www.shodan.io/

https://www.exploit-db.com/google-hacking-database

#### Innovations in... Phishing!

https://stuffwithaurum.blog/2018/09/30/an-innovative-phishing-style/

### Rubber Ducky! Wait, what?

https://www.youtube.com/watch?time continue=29&v=sbKN8FhGnqg

### Danger Drone, the Real Dark Knight

https://www.youtube.com/watch?v=iG7hUE2BZZo&t=415s

#### Social Engineering: Best Hack

https://www.youtube.com/watch?v=lc7scxvKQOo&t=3s

#### 10 Airports You Can Easily Get Hacked

https://www.cnbc.com/2018/07/17/these-are-the-10-airports-where-youre-most-likely-to-be-hacked.html

#### VPN to the Rescue!

https://www.privateinternetaccess.com/

#### Privacy and Social Media...

https://www.bbc.com/news/technology-46456695

#### Car Hacking

https://www.wired.com/2017/04/just-pair-11-radio-gadgets-can-stealcar/

https://www.esat.kuleuven.be/cosic/fast-furious-and-insecure-passive-keyless-entry-and-start-in-modern-supercars/

https://nakedsecurity.sophos.com/2018/11/30/driver-loses-his-car-to-hackers-twice/

## Garage Hacking

https://samy.pl/opensesame/

#### Capture The Flag Competitions

- https://ctftime.org/
- https://www.nationalcyberleague.org/

#### Learn, Repeat, Profit

- PicoCTF write-up: <a href="https://s0cket7.com/picoctf-web/">https://s0cket7.com/picoctf-web/</a>
- Crash Course in CS: <u>https://www.youtube.com/playlist?list=PL8dPuuaLjXtNlUrzyH5r6jN9ullgZBpdo</u>
- All google resources to learn coding and CS, especially for high school & middle school: https://edu.google.com/computer-science/?modal active=none
- Breaking into the power grid: <a href="https://www.youtube.com/watch?v=pL9q2lOZ1Fw&t=1s">https://www.youtube.com/watch?v=pL9q2lOZ1Fw&t=1s</a>
- Awesome Hacking: <a href="https://github.com/Hack-with-Github/Awesome-Hacking/blob/master/README.md">https://github.com/Hack-with-Github/Awesome-Hacking/blob/master/README.md</a>
- News:
  - https://www.reddit.com/r/netsec/
  - https://krebsonsecurity.com/
  - https://www.wired.com/category/threatlevel/
  - https://news.ycombinator.com/
- Free cybersecurity learning: <a href="https://www.cybrary.it/">https://www.cybrary.it/</a>

#### Learn, Repeat, Profit

- Security cheat sheets: <a href="https://highon.coffee/blog/">https://highon.coffee/blog/</a>
- Awesome offensive security: <a href="https://github.com/enagx/awesome-pentest">https://github.com/enagx/awesome-pentest</a>
- Different Hacking Environments: <a href="https://github.com/joe-shenouda/awesome-cyber-skills">https://github.com/joe-shenouda/awesome-cyber-skills</a>
- Make your own lab:
  - https://github.com/rapid7/metasploitable3
  - https://metasploit.help.rapid7.com/docs/metasploitable-2
  - https://www.owasp.org/index.php/Category:OWASP WebGoat Project
  - I would recommend setting up a few virtual machines and go over exploiting those. For instance, you can set up
    Metasploitable3 (<a href="https://github.com/rapid7/metasploitable3">https://github.com/rapid7/metasploitable3</a>) and Kali Linux (<a href="https://www.kali.org/downloads/">https://www.kali.org/downloads/</a>),
    then look into videos on youtube like
    <a href="https://www.youtube.com/playlist?list=PLZOToVAK85MpnjpcVtNMwmCxMZRFaY6mT">https://www.youtube.com/playlist?list=PLZOToVAK85MpnjpcVtNMwmCxMZRFaY6mT</a> and you can follow along and see the process of pentesting

#### Contact

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