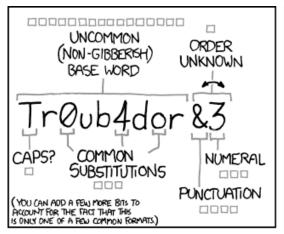
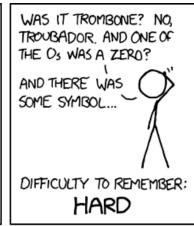
Obscurity in Cybersecurity

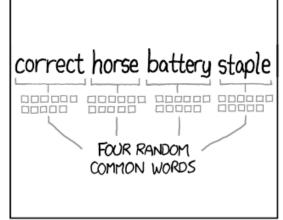
by Vitaly Ford
Arcadia University

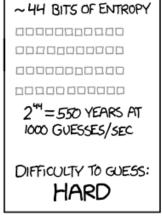
Passwords? Who uses it anyway...

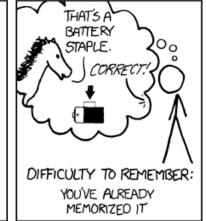












THROUGH 20 YEARS OF EFFORT, WE'VE SUCCESSFULLY TRAINED EVERYONE TO USE PASSWORDS THAT ARE HARD FOR HUMANS TO REMEMBER, BUT EASY FOR COMPUTERS TO GUESS.

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/

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...

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: https://s0cket7.com/picoctf-web/
- 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: https://www.youtube.com/watch?v=pL9q2lOZ1Fw&t=1s
- Awesome Hacking: https://github.com/Hack-with-Github/Awesome-Hacking/blob/master/README.md
- News:
 - https://www.reddit.com/r/netsec/
 - https://krebsonsecurity.com/
 - https://www.wired.com/category/threatlevel/
 - https://news.ycombinator.com/
- Free cybersecurity learning: https://www.cybrary.it/

Learn, Repeat, Profit

- Security cheat sheets: https://highon.coffee/blog/
- Awesome offensive security: https://github.com/enagx/awesome-pentest
- Different Hacking Environments: https://github.com/joe-shenouda/awesome-cyber-skills
- 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 (https://github.com/rapid7/metasploitable3) and Kali Linux (https://www.kali.org/downloads/),
 then look into videos on youtube like
 https://www.youtube.com/playlist?list=PLZOToVAK85MpnjpcVtNMwmCxMZRFaY6mT and you can follow along and see the process of pentesting

Contact

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