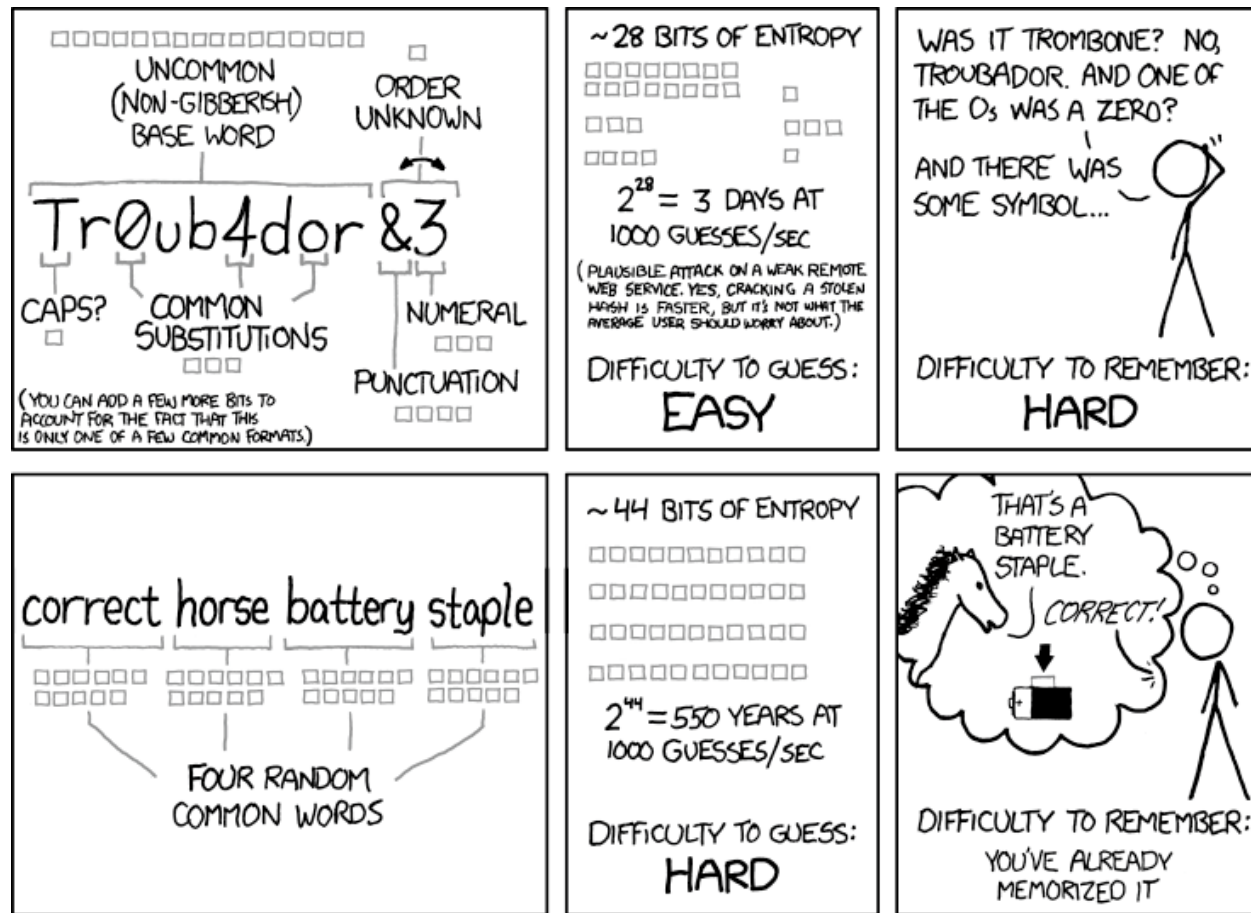


Obscurity in Cybersecurity

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-above-passwords>

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/ublock-origin/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...

Capture The Flag Competitions

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

Learn, Repeat, Profit: Good Stuff

- Crash Course in CS:
<https://www.youtube.com/playlist?list=PL8dPuuaLjXtNIUrzyH5r6jN9ullgZBpdo>
- 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: Good Stuff

- Security cheat sheets: <https://highon.coffee/blog/>
- Awesome offensive security: <https://github.com/enaqx/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

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