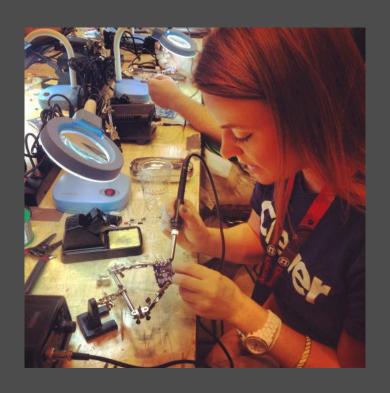
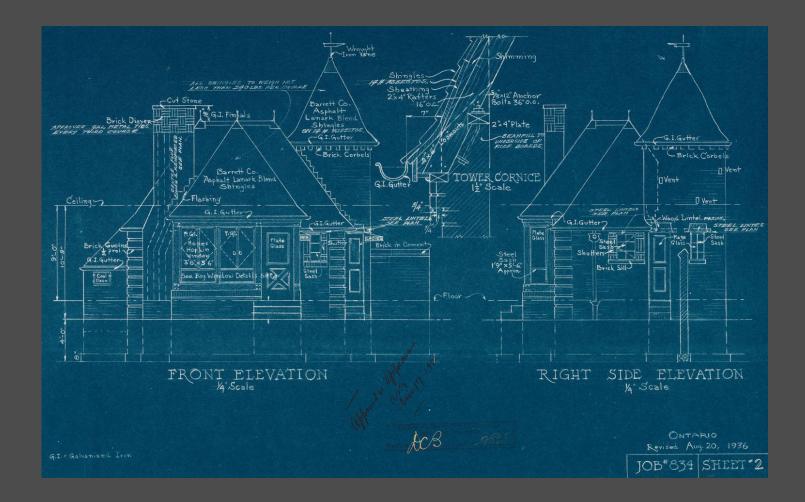
# #edsec: A Crash Course in Privacy+ Security for the Classroom

SVCUE 2016
Jessy Irwin
ajessysaurusrex

NB: Be sure to view the speakers' notes!

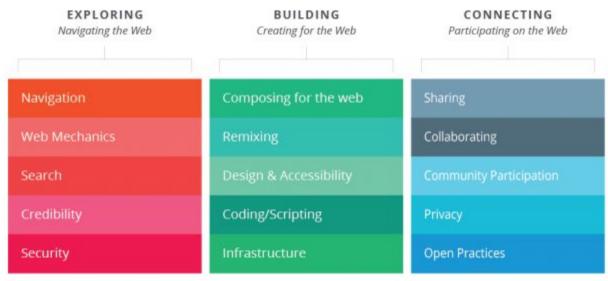
#### Who am I?





## CVE-2014-0160

#### Web Literacy Map



VERSION 1.1





Warning: these are not actual hackers:)



Warning: these are not actual hackers:)

## **Operational Security**

Separate your personal and professional accounts!!!

Use certain apps for specific purposes-- i.e. communication.

## Physical security

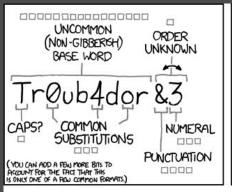
- Set up strong passcodes on mobile devices, screensavers on desktops + laptops
- Create screenlocking shortcuts in Settings/Preferences for displays when you're away from your device.
- Back up your data! Data loss = awful.

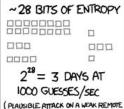
### Protect your secrets

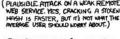
#### Google hacking

- search with filename: .xls/.doc operators

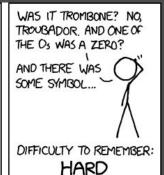
#### **Passwords**

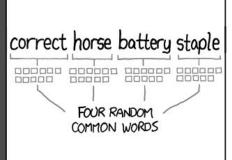


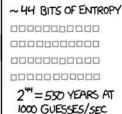




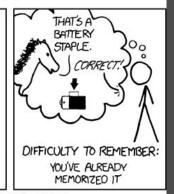
DIFFICULTY TO GUESS:





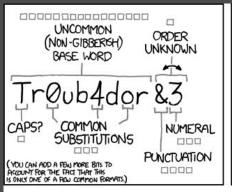


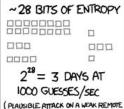
DIFFICULTY TO GUESS: HARD

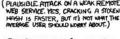


THROUGH 20 YEARS OF EFFORT, WE'VE SUCCESSFULLY TRAINED EVERYONE TO USE PASSWORDS THAT ARE HARD FOR HUMANS TO REMEMBER, BUT EASY FOR COMPUTERS TO GUESS.

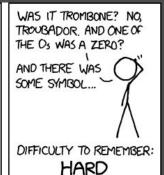
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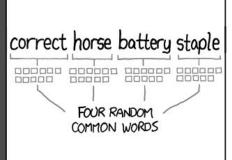


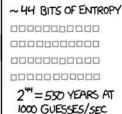




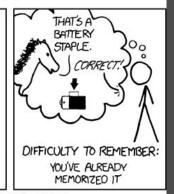
DIFFICULTY TO GUESS:







DIFFICULTY TO GUESS: HARD



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.

#### **Passwords**

- NO SPREADSHEETS!!!!1!!1! EVER!
- Use a password manager: <a href="#">1Password</a> (or LastPass, Dashlane, KeePass, etc.)
- haveibeenpwned.com is great for breach notification

#### 2-factor authentication

Google Authenticator

~\* or \*~ your password manager

~\* This is a must for social media and personal email accounts! \*~

#### Avoid common online attacks

<u>Phishing</u>

<u>Malware</u>

Ransomware

Spoofing

Spyware



### Other security tips

- Update browsers + software regularly
- Use an adblocker like <u>uBlock</u>
- OpenDNS
- HTTPs Everywhere

Beware of public wifi: use a VPN, or BYOI Use sample data when testing a new service

# How can we model online security to our students?

Security is what we use to give people (our students!) privacy. How can we evaluate whether a tool is secure enough to protect student privacy?

edtechinfosec.org

How can we evaluate whether a tool protects student privacy?

funnymonkey.com/blog



You've made it to the end! Here's a puppy. Email me any time with questions: jessy.irwin@gmail.com