PRIVACY TOOLKIT

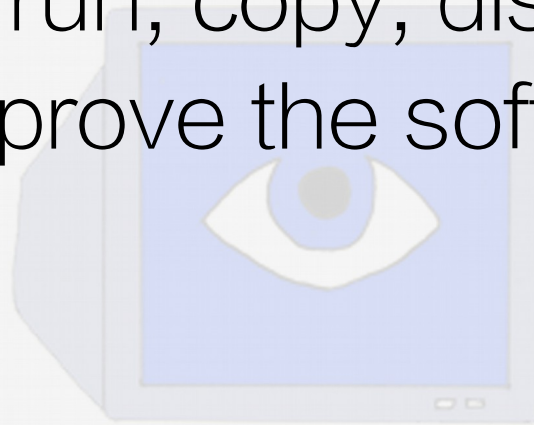alison@libraryfreedomproject.org

Library Freedom Project

THREAT MODELING

- assets
- adversaries
- capabilities
- consequences

how much trouble are you willing to go
through in order to try to prevent those?

Library Freedom Project

FREE SOFTWARE

the freedom to run, copy, distribute, study, change and improve the software (gnu.org)

- vs. proprietary software
- why does this matter for privacy?
- most of these tools are free software

Library Freedom Project

# TOR BROWSER

Library Freedom Project

- Tor browser is the only anonymous and ephemeral browser
- Tor vs. Firefox
- Tor extensions: HTTPS Everywhere and NoScript
- how the Tor network works
- Tor best practices
- more with Tor
- Tails

Library Freedom Project
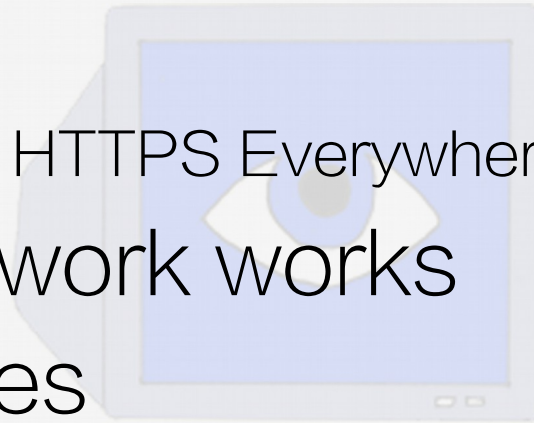
ENCRYPTED WEBSITES

- what is encryption?
  1. confidentiality
  2. authenticity
  3. integrity
- http vs https
- HTTPS Everywhere
- Let's Encrypt

Library Freedom Project
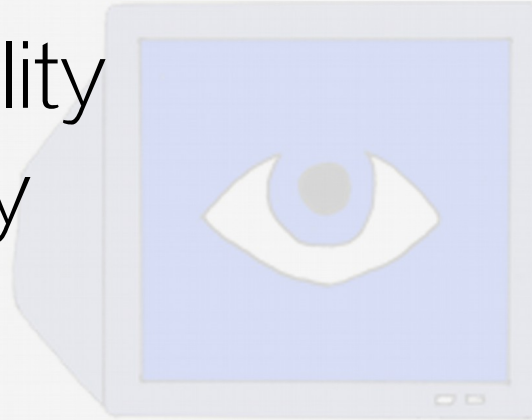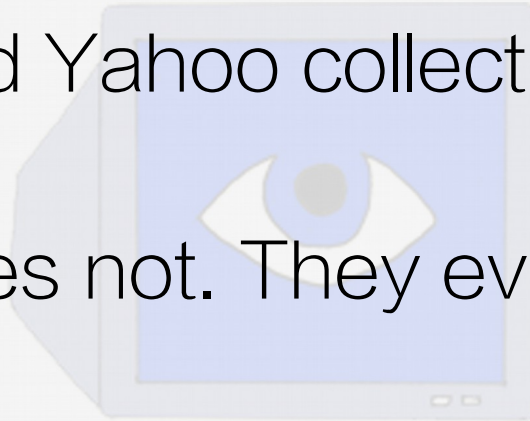
THIRD PARTY TRACKING

- cookies
- widgets
- analytics
- beacons
- behavioral advertising
- Privacy Badger

This is a real image from an online marketing company.

SEARCH TRACKING

- Google, Bing, and Yahoo collect and store your searches
- DuckDuckGo does not. They even have an extension!

- embedded Google searchbars: Google Sharing

MOBILE DEVICES

- your pocket tracking device and you
- location services, wifi, bluetooth = off
    even better = airplane mode
- cover cameras
- exif removal
- hardening Android: Replicant and Cyanogenmod
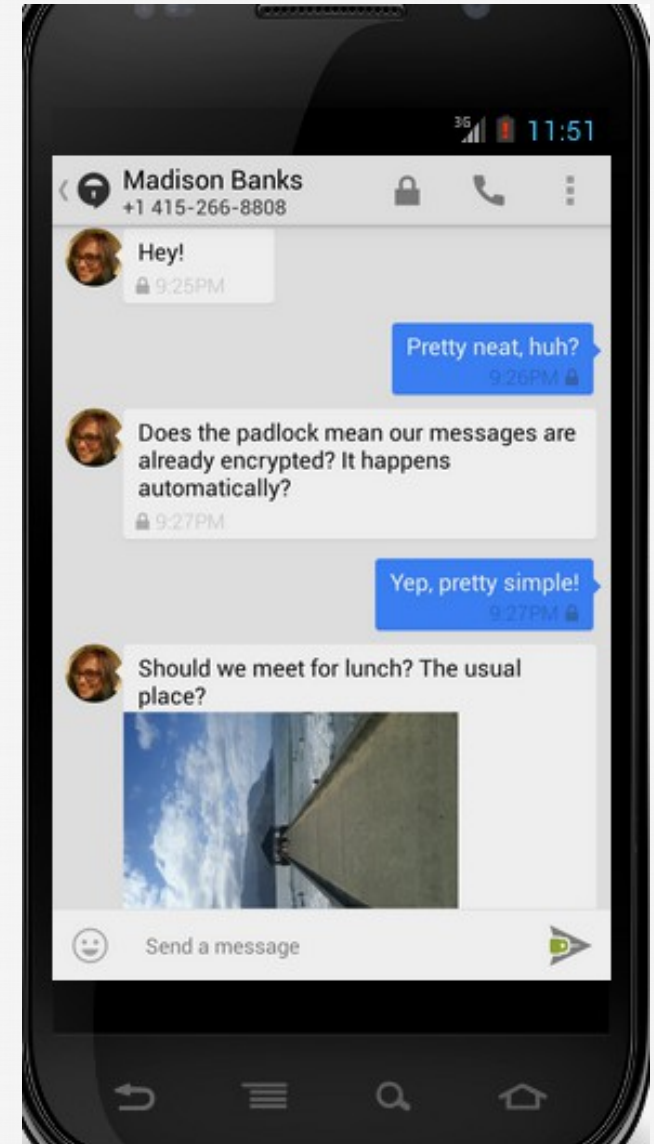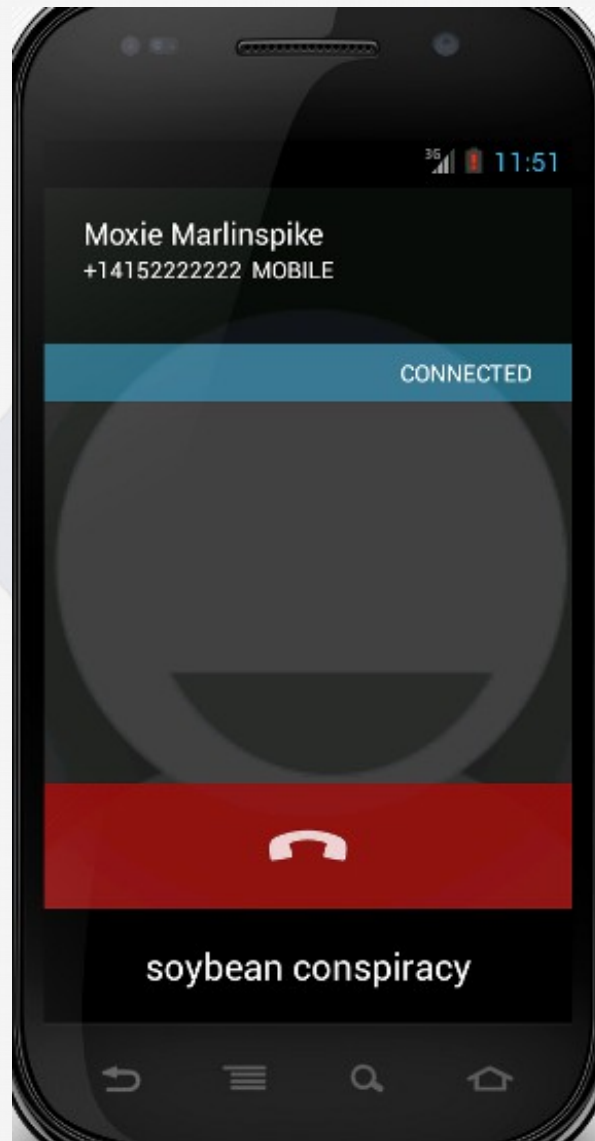- device encryption
- high security situations

Library Freedom Project
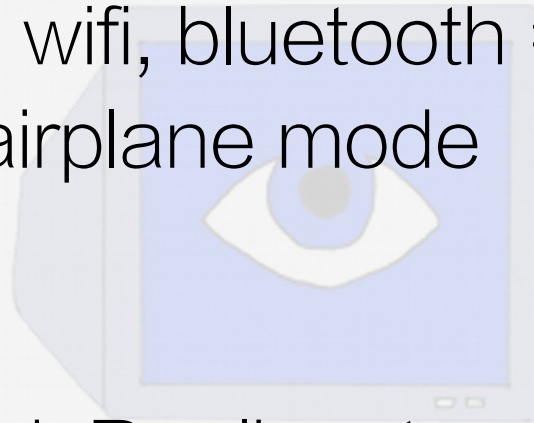
MOBILE APPS

The Guardian Project
(Android)

Signal (iPhone)

Redphone/
Textsecure (Android)

SnoopSnitch (Android
with root access)

Library Freedom Project

PASSWORDS

- Strong passwords are not that hard!
  - high entropy
  - NO PATTERNS
- xkcd method
- diceware list
- KeyPassX:
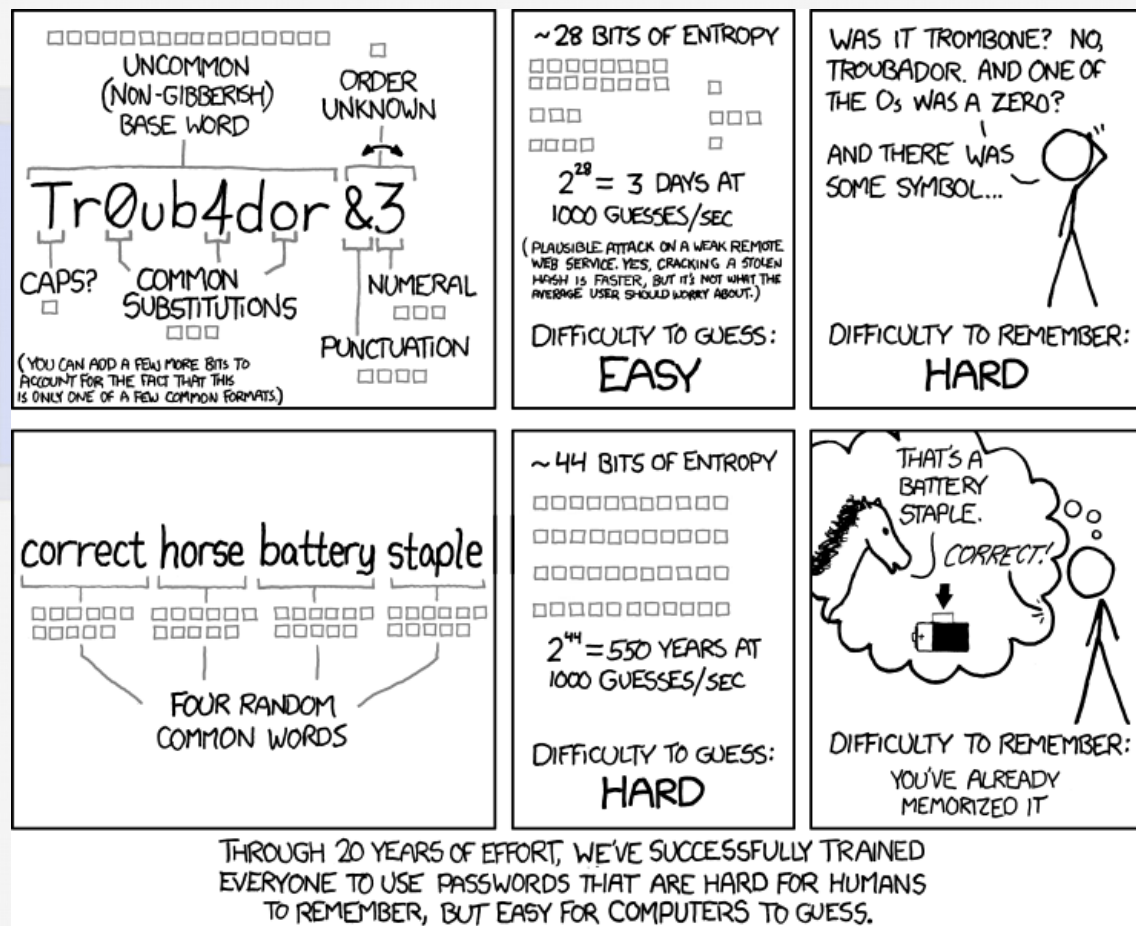 - encrypted
  - FOSS
- hardware tokens

image credit: xkcd.com

EMAIL

who can read your email?

- your email service provider
- operators of intermediate network connections
- your intended recipient's email service provider
- anyone who accesses those servers
- worse if you're not using TLS connections

Library Freedom Project

PGP email encryption
- email self-defense from FSF
email providers
- pobox.com
- alumni email
- riseup.net
- mykolab.com
- a server you trust

Library Freedom Project
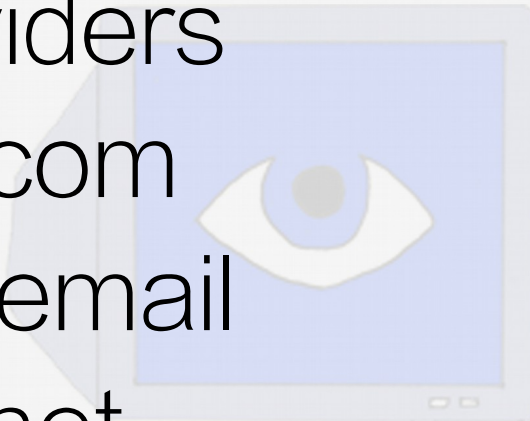
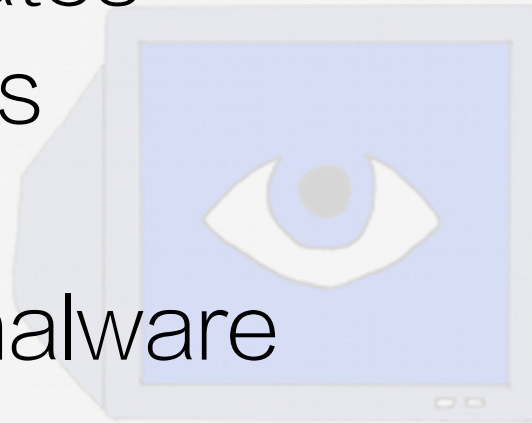# VPNs

- what is a VPN?
- what to look for when choosing a VPN
- OpenVPN (FOSS, harder)
- commercial VPNs
- mobile options

Library Freedom Project
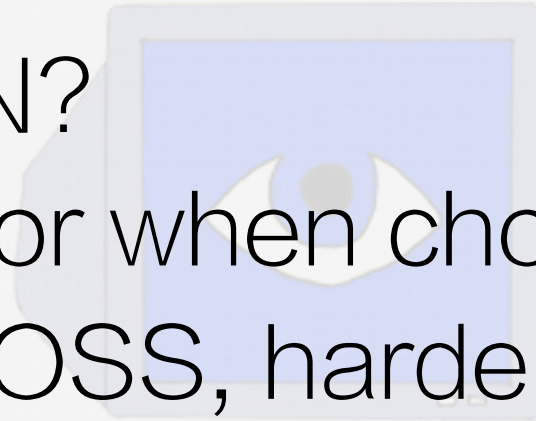
MISCELLANY

- software updates
- cover cameras
- open wifi
- viruses and malware

antivirus: ClamAV
antimalware: MalwareBytes (free vs pro)
government malware: Detekt

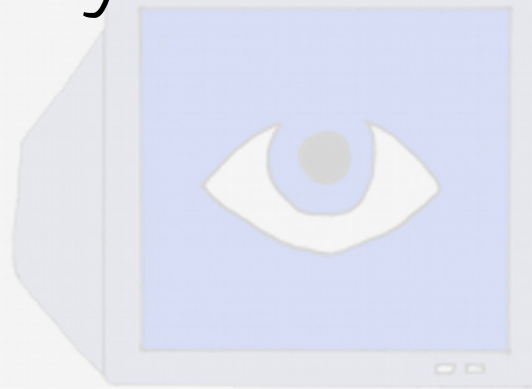Library Freedom Project

http://www.surveyrock.com/ts/ZC666F
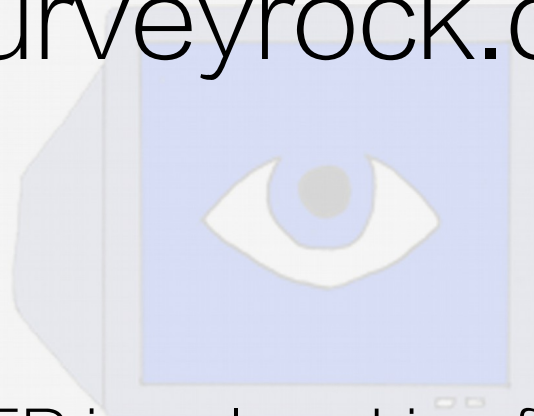
Please note: while LFP is only asking for anonymous feedback in this survey, Survey Rock may be collecting IP addresses or other personally identifiable information.

Library Freedom Project

Tor Browser https://www.torproject.org/projects/torbrowser.html.en

NoScript http://noscript.net/

Firefox https://www.mozilla.org/en-US/firefox/new/

HTTPS Everywhere https://www.eff.org/https-everywhere

Let's Encrypt https://letsencrypt.org/

PrivacyBadger https://www.eff.org/privacybadger

DuckDuckGo https://duckduckgo.com/

DuckDuckGo extension https://addons.mozilla.org/en-US/firefox/addon/duckduckgo-for-firefox/

Google Sharing https://addons.mozilla.org/en-US/firefox/addon/googlesharing

Replicant http://www.replicant.us/

Cyanogenmod http://www.cyanogenmod.org/

The Guardian Project https://guardianproject.info/

Signal/Redphone/Textsecure https://whispersystems.org/

SnoopSnitch https://opensource.srlabs.de/projects/snoopsnitch

Diceware http://world.std.com/~reinhold/diceware.html

KeePassX https://www.keepassx.org/

Yubico https://www.yubico.com/

Yubikey static mode https://www.yubico.com/products/services-software/personalization-tools/static-password/

Email Self-Defense https://emailselfdefense.fsf.org/en/

PO Box https://www.pobox.com/

Riseup https://help.riseup.net/

Mykolab https://kolabnow.com/

OpenVPN https://openvpn.net/index.php/open-source.html

VPN list http://torrentfreak.com/anonymous-vpn-service-provider-review-2015-150228/

ClamAV http://www.clamav.net/index.html

MalwareBytes https://www.malwarebytes.org

Detekt https://resistsurveillance.org/

https://libraryfreedomproject.org

Library Freedom Project

alison@libraryfreedomproject.org

Attribution-ShareAlike 4.0 International
www.creativecommons.org

Library Freedom Project