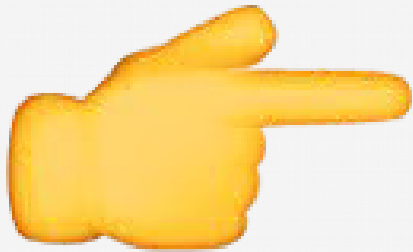




PRIVACY TOOLKIT FOR LIBRARIANS

WRITE THIS STUFF DOWN



@flexlibris
@libraryfreedom
alison@torproject.org



libraryfreedomproject.org/resources/privacytoolkit

lists.riseup.net/www/subscribe/libraryfreedom

TALKING POINTS

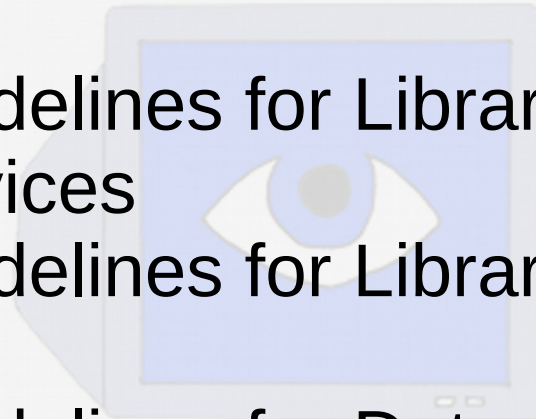
- privacy technologies as a tool; analogous to cash
- privacy is analogous to health
- criminals shouldn't be the only ones with privacy
- intellectual freedom arguments -LFP resources
- high demand from patrons
- consumer rights issue

BASICS

- Deep Freeze/Clean Slate
- Anonymous guest passes
- Privacy screens
- Chrome with tracking turned off
(Settings → privacy)
- Logging behavior of network,
authentication system

ALA GUIDELINES

- Library Privacy Guidelines for Public Access Computers and Networks
- Library Privacy Guidelines for Library Websites, OPACs, and Discovery Services
- Library Privacy Guidelines for Library Management Systems
- Library Privacy Guidelines for Data Exchange Between Networked Devices and Services
- Library Privacy Guidelines for E-book Lending and Digital Content Vendors
- Library Privacy Guidelines for Students in K-12 Schools





Welcome to Tor Browser

You are now free to browse the Internet anonymously.

[Test Tor Network Settings](#)



Search [securely](#) with [Disconnect.me](#).

What Next?

Tor is NOT all you need to browse anonymously! You may need to change some of your browsing habits to ensure your identity stays safe.

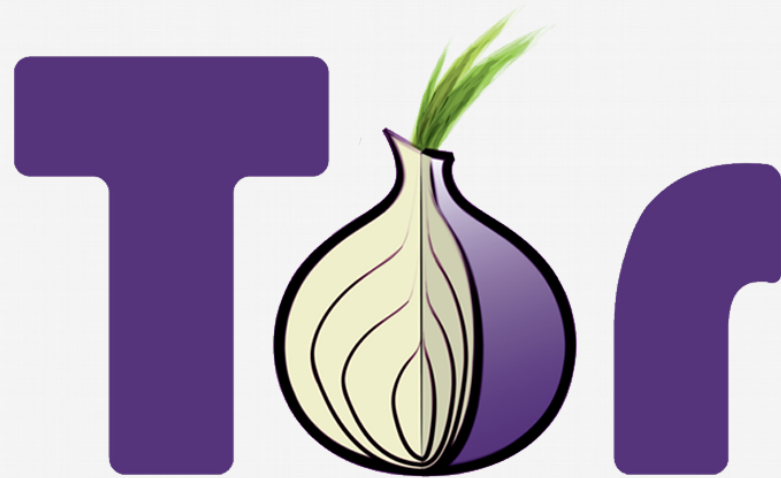
[Tips On Staying Anonymous »](#)

You Can Help!

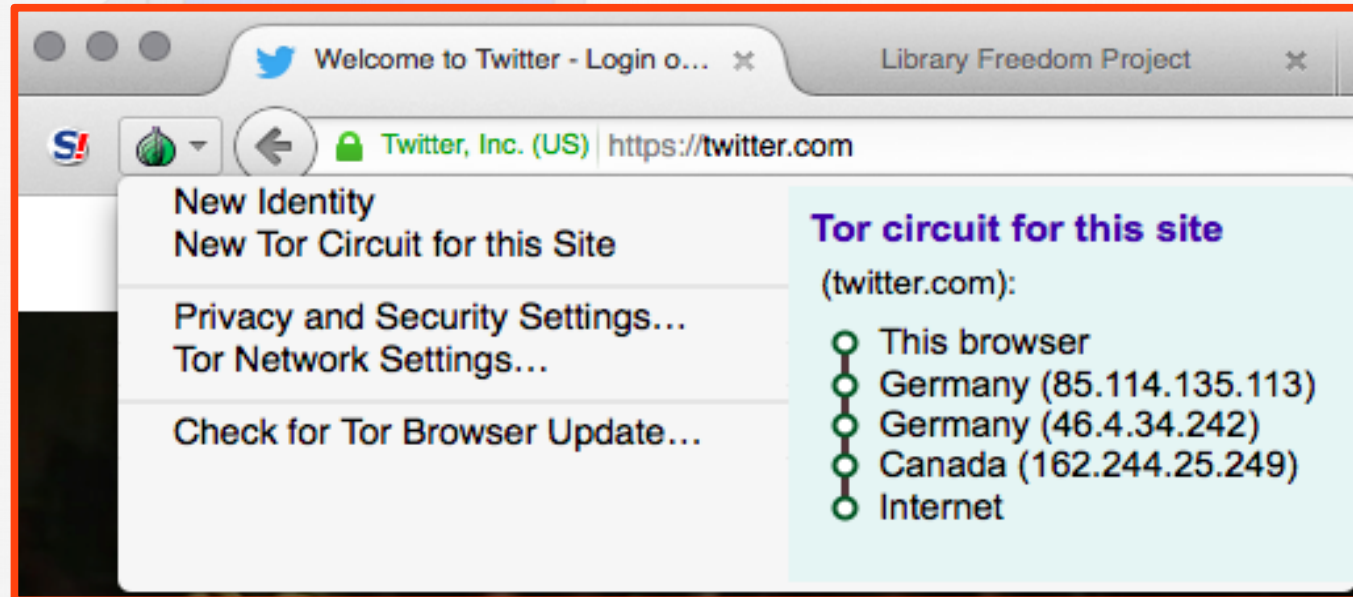
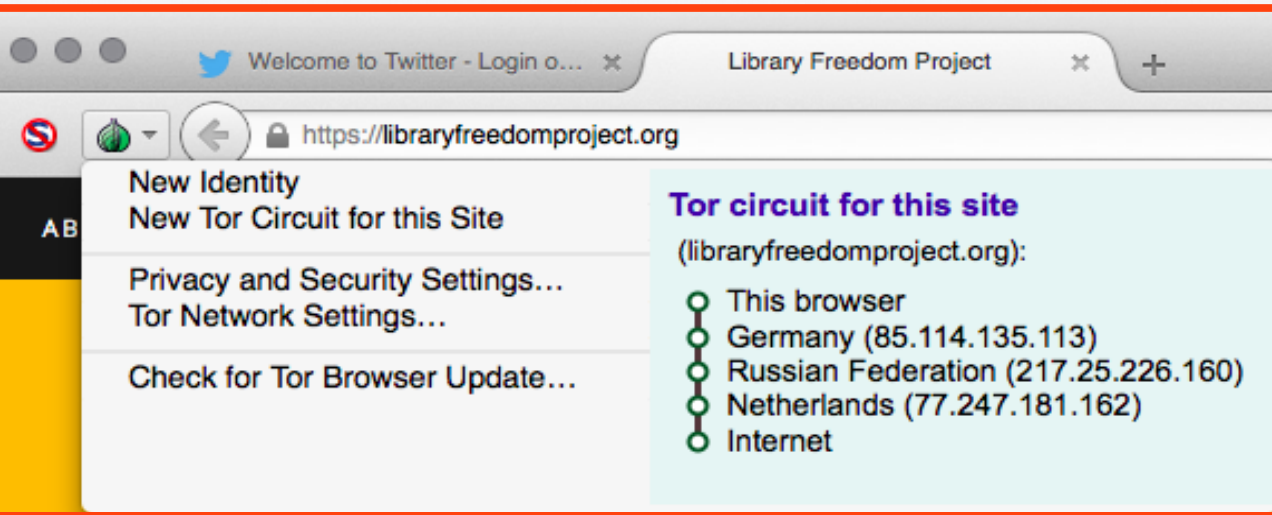
There are many ways you can help make the Tor Network faster and stronger:

- [Run a Tor Relay Node »](#)
- [Volunteer Your Services »](#)
- [Make a Donation »](#)

The Tor Project is a US 501(c)(3) non-profit dedicated to the research, development, and education of online anonymity and privacy. [Learn more about The Tor Project »](#)



- Obscures your real IP
- Prevents cross-site correlation
- Blocks cookies, scripts
- Writes nothing to disk
- Bundled with extensions NoScript and HTTPS Everywhere
- DuckDuckGo search
- Some usability barriers
- Best practices



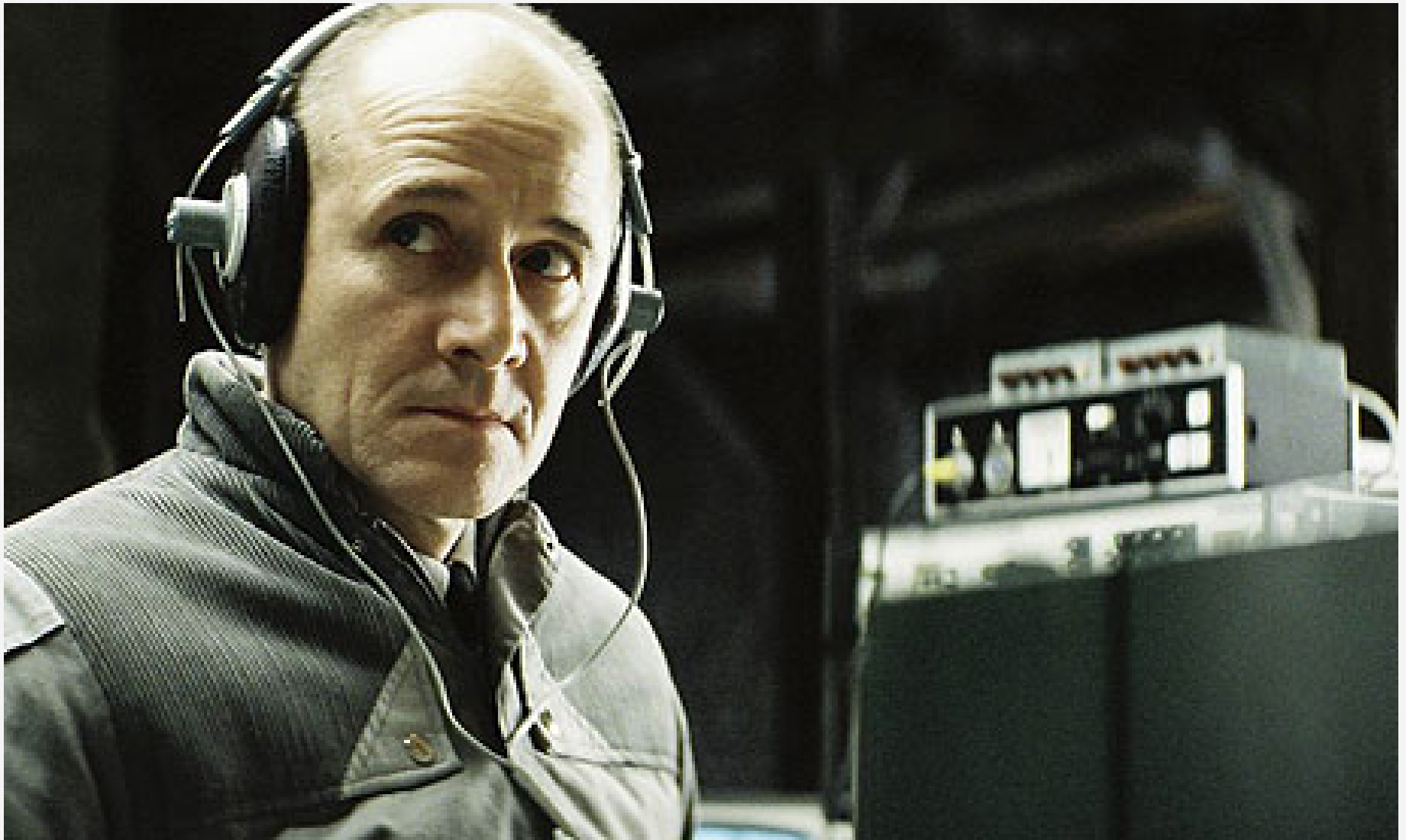
<https://libraryfreedomproject.org>

WEB BROWSER SAFETY

- DuckDuckGo Search
- Privacy Badger (Chrome or Firefox)
- uBlock Origin (Chrome or Firefox)
- remove Flash!!!!!! (not installed in Tor)
- use Chrome if not Tor Browser

Copyright © 2015 rt.com

BEHAVIORAL ANALYTICS



Copyright Sony Pictures 2006



Nima Fatemi
@mrphs



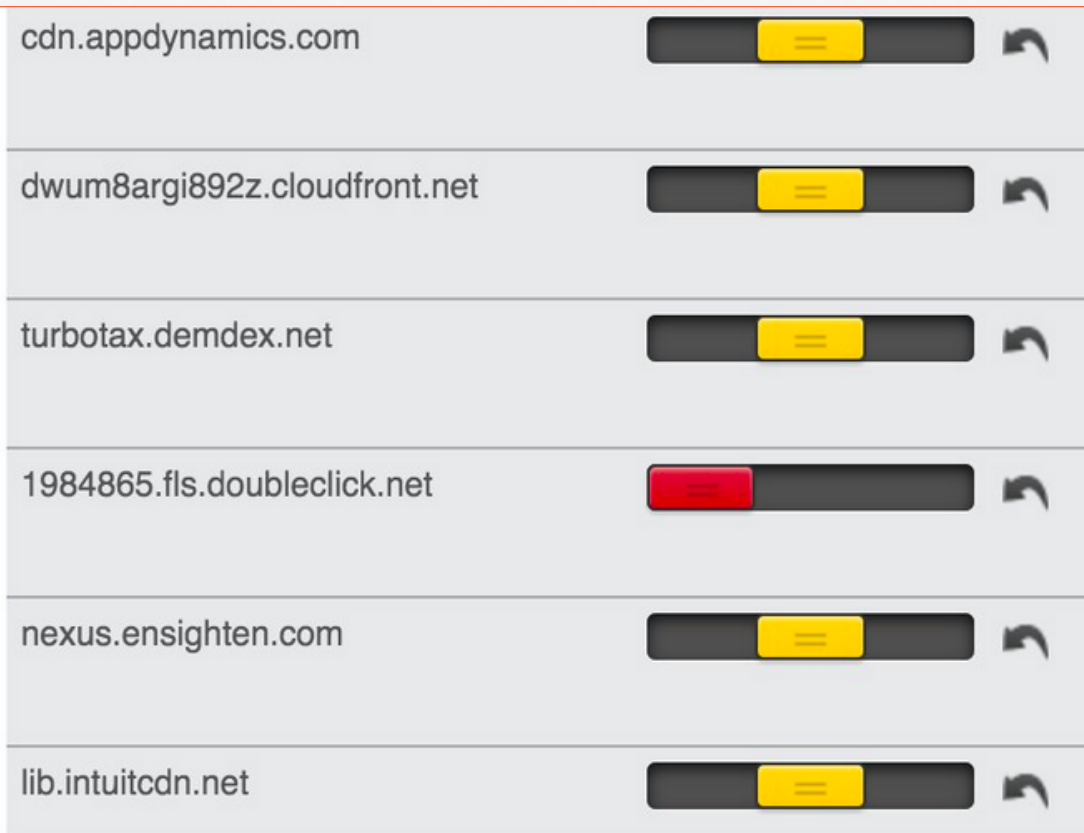
Following

Are you a [@turbotax](#) user? Let's use [@PrivacyBadger](#) to see who else has access to your tax information...



The Privacy Badger interface shows a list of domains with sliders to control tracking. A red 'X' icon indicates a blocked cookie. A notification banner at the bottom states: "Blocked cookies from www.gstatic.com".

Domain	Tracking Level
www.google.com	Medium
fonts.gstatic.com	Medium
www.gstatic.com	Medium



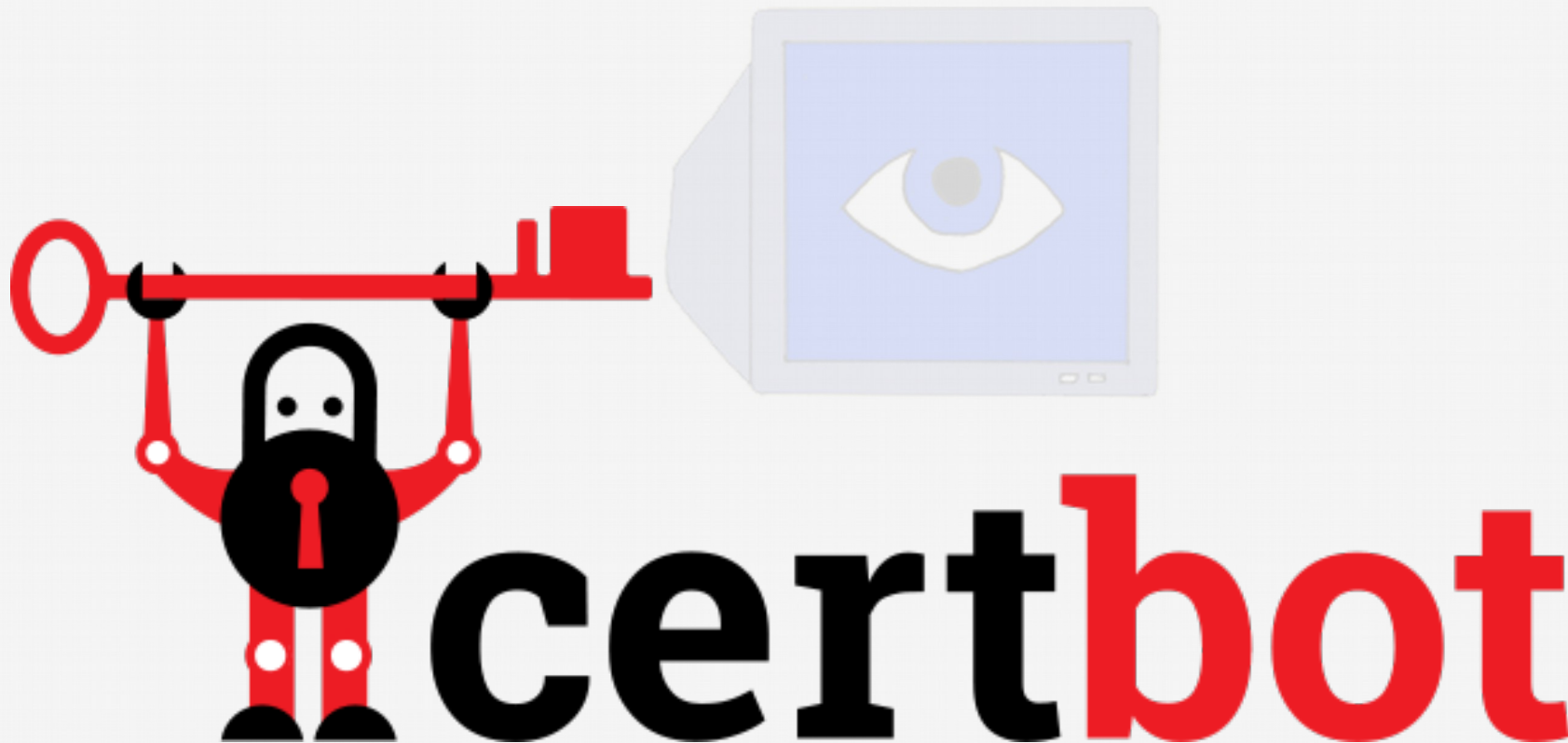
The Privacy Badger interface shows a list of domains with sliders to control tracking. The tracking levels are as follows:

Domain	Tracking Level
cdn.appdynamics.com	Medium
dwum8argi892z.cloudfront.net	Medium
turbotax.demdex.net	Medium
1984865.fls.doubleclick.net	High
nexus.ensighten.com	Medium
lib.intuitcdn.net	Medium

https://www.

<https://libraryfreedomproject.org>

HTTPS is easy with Certbot, Let's Encrypt, and the Library Digital Privacy Pledge



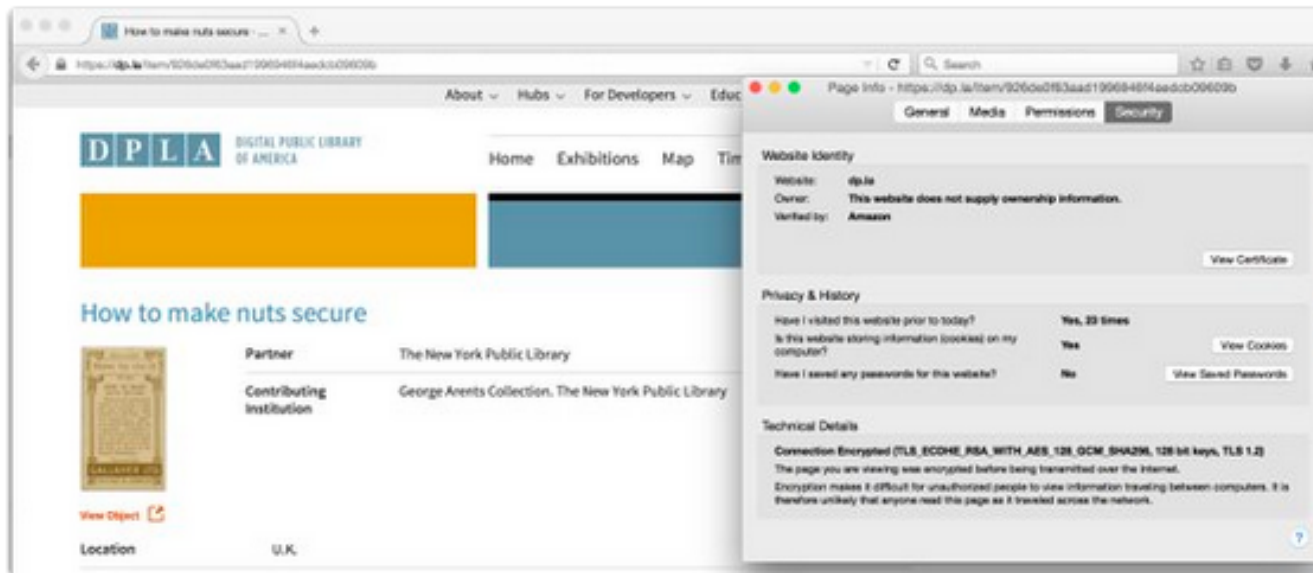


Mx A. Matienzo
@anarchivist



Following

oh yeah, that's right, @DPLA is working
towards everything over HTTPS -> #DPLAfest

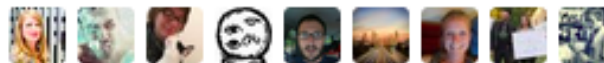


RETWEETS

7

LIKES

6

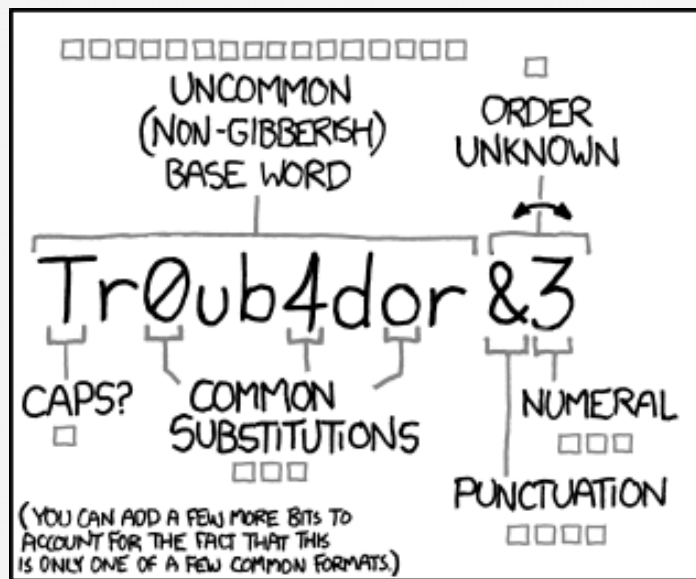


9:35 AM - 14 Apr 2016

NYPL Labs and LFP







~28 BITS OF ENTROPY

□□□□□□□□
□□□□□□□□
□□□
□□□□


$2^{28} = 3 \text{ DAYS AT } 1000 \text{ GUESSES/SEC}$

(PLAUSIBLE ATTACK ON A WEAK REMOTE
WEB SERVICE. YES, CRACKING A STOLEN
HASH IS FASTER, BUT IT'S NOT WHAT THE
AVERAGE USER SHOULD WORRY ABOUT.)

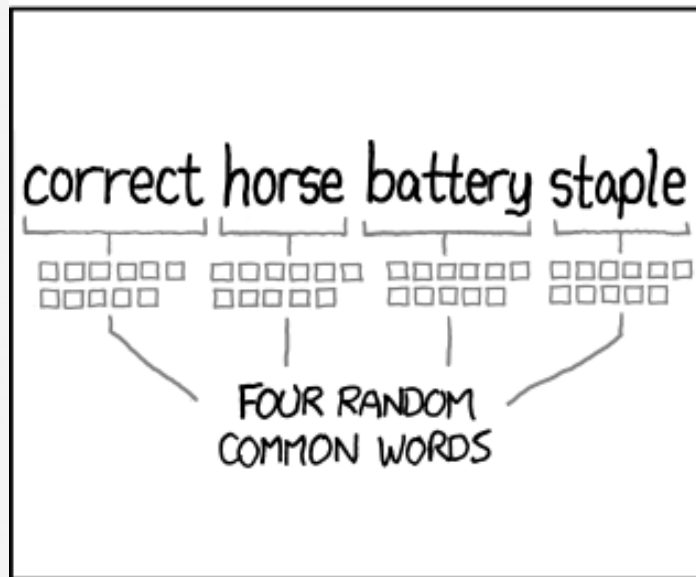
DIFFICULTY TO GUESS:
EASY

WAS IT TROMBONE? NO,
TROUBADOR. AND ONE OF
THE 0s WAS A ZERO?

AND THERE WAS
SOME SYMBOL...



DIFFICULTY TO REMEMBER:
HARD



~44 BITS OF ENTROPY

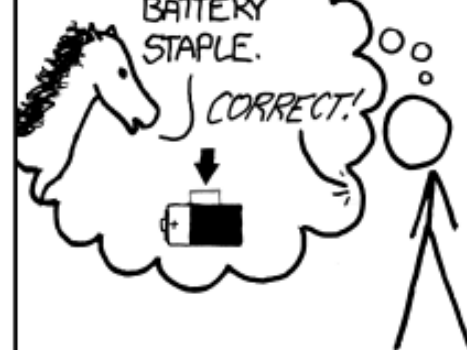
□□□□□□□□□□
□□□□□□□□□□
□□□□□□□□□□
□□□□□□□□□□

$2^{44} = 550 \text{ YEARS AT } 1000 \text{ GUESSES/SEC}$

DIFFICULTY TO GUESS:
HARD

THAT'S A
BATTERY
STAPLE.

CORRECT!



DIFFICULTY TO REMEMBER:
YOU'VE ALREADY
MEMORIZED IT

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.

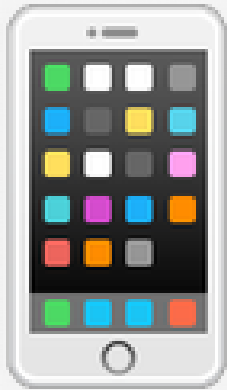
Copyright © 2015 Randall Munroe/xkcd

PASSWORDS

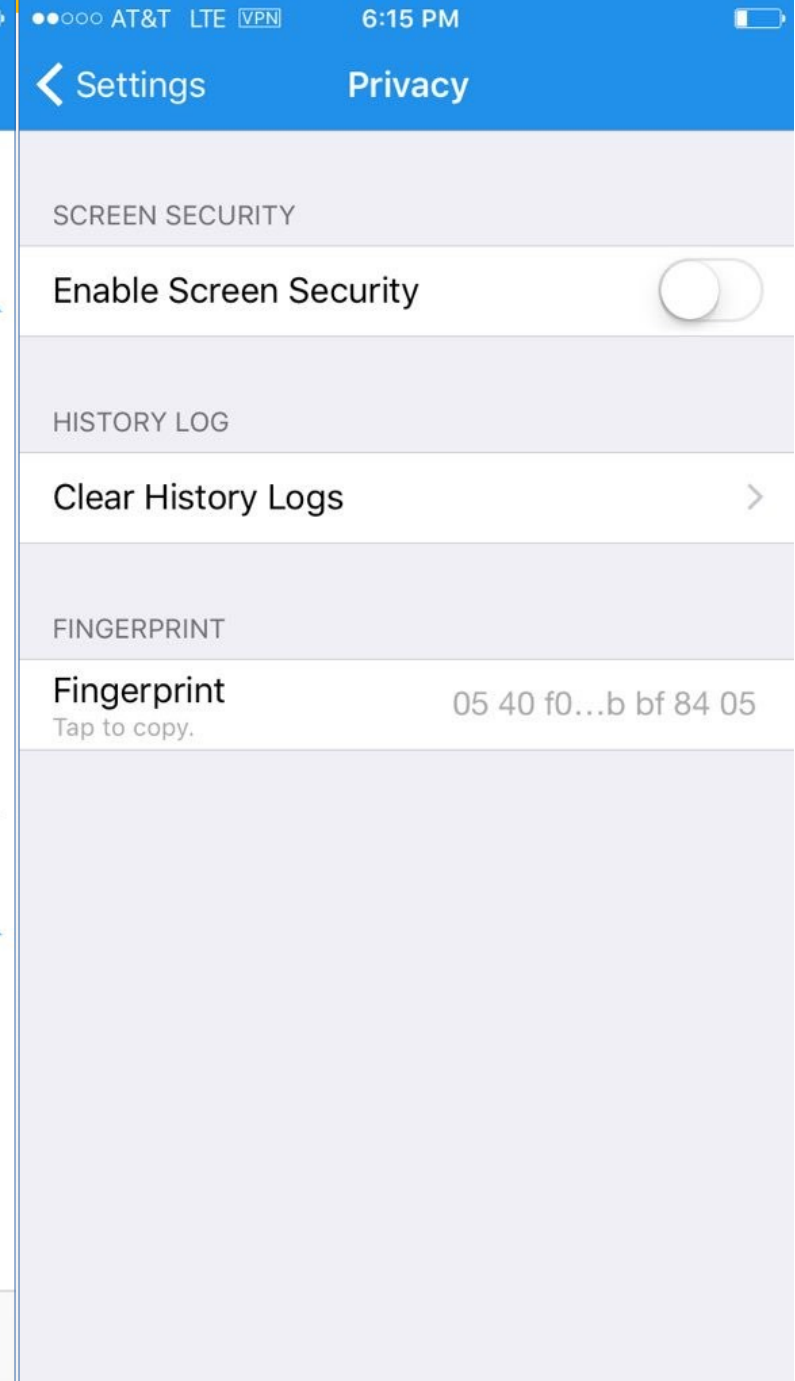
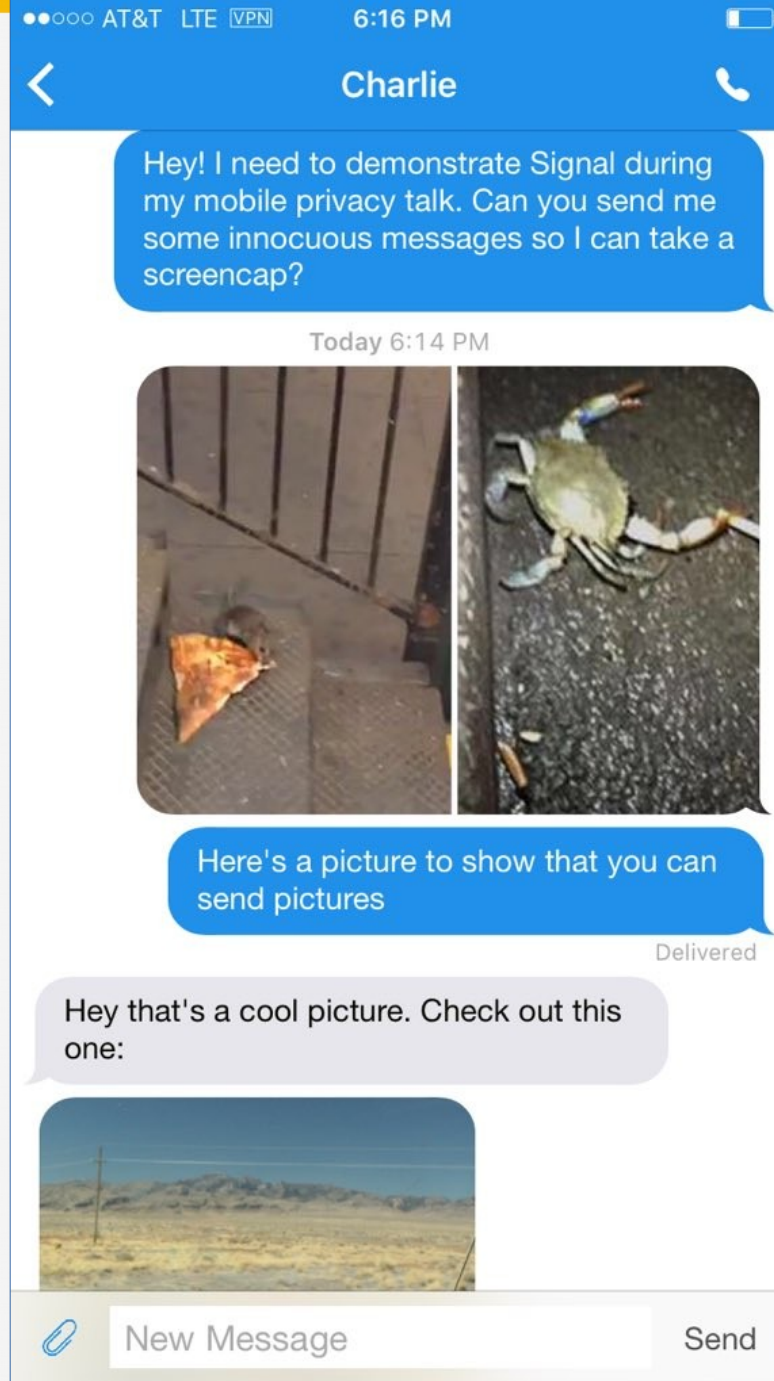
- Master password: diceware wordlist
- Password managers
 - LastPass
 - 1Password
- 2factor authentication
- Security questions
- Mobile device passwords



MOBILE DEVICES = DOOMED



Signal: encrypted text and calls



EMAIL IS A POSTCARD

- email is neither secure nor private
- email stored longer than 180 days can be requested with a subpoena (US)
- GPG email encryption is the only way to have private email
- safer providers: Gmail, POBox, Riseup, alumni email
- caveats to safer email



EMAIL IS A POSTCARD

- email is neither secure nor private
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- advertising
- attachments
- links
- social engineering
- untrusted downloads
- MalwareBytes
- ClamAV
- attachments and links in Chrome/Gdrive

VIRTUAL PRIVATE NETWORKS



<https://libraryfreedomproject.org>

CHOOSING A VPN

- logs
- jurisdictions
- DMCA/copyright takedowns
- law enforcement requests
- warrant canaries
- payment systems
- server control and location
- some options: Riseup, PIA, Bitmask

0AOuHn1ue4n32EAf/UEF6JLrap10BMdKMvb+Dz9GvoijUixH+gb
ktMwo7OWqPyJseVRSPBOv6dOwy65KrzrHwhOH0/CKEk2O5STAww
Gc4iumM1725JNahJzcl5ED33LFdZ6uoEjgqggxG1dFwvwksRHA4
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XSukK648F10ImmVUM9csPOcvfOMZeAgh4i+HYQvFF/kGHP6ogev
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Tk572zdZbrCtSgcthrN/uxbJSNnw4X9IZbWtFOUr31r676II8Q1
pZA==
Uf

FULL DISK

ENCRYPTION

MISC BEST PRACTICES

Legal and consumer resources

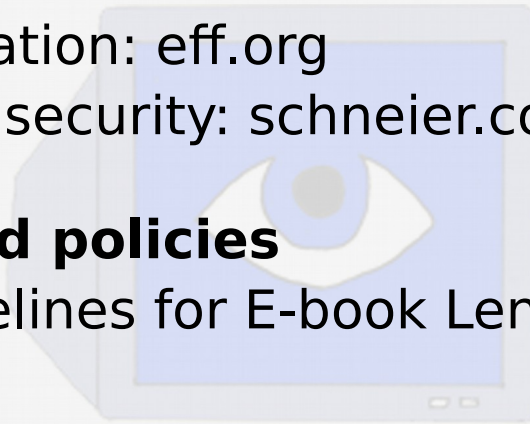
- Privacy International: privacyinternational.org
- Article 19: article19.org
- Electronic Frontier Foundation: eff.org
- Bruce Schneier's blog on security: schneier.com

Vendor relationships and policies

- ALA Library Privacy Guidelines for E-book Lending and Digital Content Vendors

In-library policies and practices

- Piwik analytics over Google analytics
- data minimization (data retention policies)
- data encryption
- law enforcement requests
- other privacy concerns



MORE HELP!



CRYPTO PARTY

<https://libraryfreedomproject.org>

Questions? Feedback?

Need more help?

mailing list:

lists.riseup.net/www/subscribe/libraryfreedom

contact:

@flexlibris

@libraryfreedom

alison@torproject.org

alison@libraryfreedomproject.org

<https://libraryfreedomproject.org>

