

LIBRARY AND INTERNET PRIVACY

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Librarian

Bottom Lines at the Top

- The privacy that libraries and librarians have worked hard at providing users with in the print-only age is not at the level it should be in the digital age. What happened?
- Awareness (by all parties), discussion, and education (of ourselves and our users) is a must and needed now

Bottom Lines at the Top

- Work by various organizations is underway
- Examples
 - NISO Privacy Initiative
 - ALA: Ebook Privacy Guidelines
 - Library Freedom Project

Publisher Involvement

More and More Using/Going To HTTPS

A Few of Several Examples:

- Bibliocommons
- Project Muse
- OverDrive
- BiblioBoard
- We Need More!

Privacy is More Than Encrypted Data Transmission (<http/https>)

- Local Library Data (Circ, Transaction Logs, Addresses, Scrubbing)
- Privacy policies, disclosure
- Sharing with vendors, others can happen but we should let users decide, give them options, understand
- Data storage

Privacy is More Than Encrypted Data Transmission #2

- Third parties (policies, integrity of systems, data retention policies, notification procedure, hiring policies)
- Opt-In services vendors offer (save results, email sharing, alerts)
- Is technology configured correctly?

Privacy is More Than Encrypted Data Transmission #3

- Personnel
- Response plans
- Awareness
- Training
- Staying current, vigilant

What Are We Scared Of?

- Improving privacy does NOT mean we have to stop doing what we do
- Isn't transparency what we ask of others?
- In today's world you need to be ahead of the story, pre-emptive vs. reactive
- Info that many people want to know about
- European web sites, cookie disclaimer

Library Center for Privacy Info and Education

- Forget “ethical” and “this is what we have always done” reasons, a huge marketing opportunity for libraries/librarians.
- In past few years privacy/surveillance is a very relevant topic
- Community/campus “privacy clearinghouse” regardless of direct library relationship (ex. social media services)
- Leverages respect for our past efforts and public respect
- Involve others (legal, ethics, journalism, etc.)

Terms and Concepts

- Cookies
 - Third-Party cookies/tracking cookies
- Beacons
 - Embedded in HTML
 - From a Wireless Device, Follow You Around a Location
- Analytics
 - Sharing with third party vs. locally (Piwik)
- Even if a web page is encrypted, calls to other pages might not be encrypted, possible “leak”

Live Demo

- Tools Used (at a Very Basic Level)
 - WireShark (Sniffer)
 - Cookie Cadger (Developed by a Iowa St. University Grad Student)
 - LightBeam (See “sharing” relationships)
 - IPLocation (GeoIP)
 - BrowserSpy.dk
- Important: It has been shown that it's easy to identify a person using tracking data
- Combining of multiple data points is key

Tools and Techniques

- VPN's
- Ghostery
- NEW: Firefox Tracking Protection
- EFF Privacy Badger
- Disconnect.me
- AdBlock and Privacy List Add-On
- Tor (for individual use)
- Clearing cookies and beacons often

Name Tied To Specific Devices (Easy to Change to Something Else)

```
18:12:44.966483000 RuckusWi_3d:d0:08
18:12:44.976152000
18:12:44.977429000 RuckusWi_02:a0:28
18:12:44.979104000
18:12:44.979164000 RuckusWi_02:a0:28 (TA)
18:12:44.979265000 Jeff-W [REDACTED] iPhone.local
18:12:44.980333000
18:12:44.991627000 HonHaiPr_d7:12:b3 (TA)
```

Tracking Scripts and Beacons (CNN.com)

[Click here for more information about ClickTale](#)

Detected tracker source URLs:

<http://cdn.clicktale.net/www04/phc/342da402-a44b-4b59-aba4-8fc...>

<http://cdn.clicktale.net/www04/ptc/342da402-a44b-4b59-aba4-8fc...>



Criteo

Advertising, Search



[Click here for more information about Criteo](#)


Detected tracker source URLs:

<http://rtax.criteo.com/delivery/rtax/rtax.js?netId=4157&cookieName=...>

Dynamic Yield


IP Geolocation

Geolocation data from **IP2Location** (Product: DB4 updated on 11/2/2015)

IP Address	Country	Region	City	ISP
50.252.150.1	United States 	South Carolina	Beaufort	Comcast Cable Communications Holdings Inc


[Google Map for Beaufort, South Carolina, United States \(New window\)](#)

Geolocation data from **EurekAPI** (Product: Pro On-demand API)

IP Address	Country	Region	City	ISP
50.252.150.1	United States 	South Carolina	Mount Pleasant	Comcast Cable
	Continent	Latitude	Longitude	Organization
	North America	32.7941	-79.8626	Comcast Cable

[Google Map for Mount Pleasant, South Carolina, United States \(New window\)](#)

Geolocation data from **DB-IP** (Product: Full updated on 11/3/2015)

IP Address	Country	Region	City	ISP
50.252.150.1	US 	South Carolina	Charleston	Comcast Cable Communications Holdings
	Time Zone	Latitude	Longitude	Organization
	America/new_york	32.7765	-79.9311	Comcast Cable Communications Holdings, Inc

[Google Map for Charleston, South Carolina, US \(New window\)](#)

OPAC Search

Requests Recognized Sessions

Filter MACs Filter Domains Filter Requests

9c:f3:87:c8:7e:fa

loc.gov
loc.gov,loc.gov
loc.gov,loc.gov,loc.gov
loc.gov,loc.gov,loc.gov,loc.gov
ocsp.comodoca4.com
rapidssl-ocsp.geotrust.com
s2.symcb.com
sr.symcd.com
ss.symcd.com
stats.itweb.co.za
stream.media.loc.gov
techscience.org
www.itweb.co.za
www.itwebafrica.com
www.itwebafrica.com,www.itwe
www.itwebafrica.com,www.itwe
www.loc.gov
www.ndl.go.jp
www.ndl.go.jp

11:13:18 PM: /static/javascript/base.js?29341.29474
11:13:28 PM: /static/images/library-of-congress-logo.png
11:13:32 PM: /static/images/fav.ico
11:13:54 PM: /static/images/fav.ico
11:14:00 PM: /search/suggest/?q=ch
11:14:00 PM: /search/suggest/?q=char
11:14:00 PM: /search/suggest/?q=charle
11:14:01 PM: /search/suggest/?q=charler
11:14:01 PM: /search/suggest/?q=charlers
11:14:01 PM: /search/suggest/?q=charles
11:14:01 PM: /search/suggest/?q=charlest
11:14:01 PM: /search/suggest/?q=charlesto
11:14:01 PM: /search/suggest/?q=charleston
11:14:01 PM: /search/suggest/?q=charleston so
11:14:02 PM: /search/suggest/?q=charleston sout
11:14:02 PM: /search/suggest/?q=charleston south
11:14:03 PM: /static/javascript/base.js?29341.29474


Load Domain Cookies Replay Request Modify & Replay Request

Cookie Cadger (v1.08, <https://cookiecadger.com>)
Created by Matthew Sullivan - mattslifebytes.com
This software is freely distributed under the terms of the FreeBSD license.

Opening 'en0' for traffic capture.
Opening 'lo0' for traffic capture.
Openina 'utun0' for traffic capture.

OPAC Search #2


URI:

/search/suggest/?q=charlest 

User Agent:

Mozilla/5.0 (masking-agent; rv:39.0) Gecko/20100101 Firefox/39.0

Referer:

http://loc.gov/ 

Authorization:

Cookies:

Analytics View of Visit to Library Web Site

URI:
/_utm.gif?utmwv=5.6.7&utms=2&utmn=835626453&utmhn=library.caltech.edu&utmcs=UTF-8&utmsr=1600x900&utmvp=1584x777&utmcs=24-bit&utmul=en-us&utmje=1&utmfl=10.0

User Agent:

Mozilla/5.0 (Windows NT 6.1; WOW64; rv:37.0) Gecko/20100101 Firefox/37.0

Referer:

http://library.caltech.edu/

Authorization:

Cookies:

PubMed Search

9c:f3:87:c8:7e:fa

Filter Domains

- sz.symcd.com
- sr.symcd.com
- ss.symcd.com
- static.pubmed.gov
- static.pubmed.gov,static.pubm
- static.pubmed.gov,static.pubm
- stats.itweb.co.za
- stream.media.loc.gov
- techscience.org
- www.itweb.co.za
- www.itwebafrica.com
- www.itwebafrica.com,www.itwe
- www.itwebafrica.com,www.itwe
- www.loc.gov
- www.ncbi.nlm.nih.gov
- www.ndl.go.jp
- www.ndl.go.jp,www.ndl.go.jp
- www.ndl.go.jp,www.ndl.go.jp,v
- www.unboundmedicine.com

Filter Requests

InstrumentOmnitureBaseJS/InstrumentNCBIConfigJS/InstrumentNCBIBase
s/hfjs2.js
24 Mon, Sep 28 2015 02
s/hfjs2.js
me=1375&jsloadtime=120
7261645

Date: 11/4/15 11:21:10 PM
Client MAC: 9c:f3:87:c8:7e:fa
Domain: www.ncbi.nlm.nih.gov
Uri: /portal/portal3rc.fcgi/rlib/js/InstrumentOmnitureBaseJS/InstrumentNCBIConfigJS/Instrum ...
Referer: http://www.ncbi.nlm.nih.gov/pubmed?term=((mental health[Text Word]) AND chicago) AND ' ...

Load Domain Cookies Replay Request Modify & Replay Request

Cookie Cadger (v1.08, <https://cookiecadger.com>)
Created by Matthew Sullivan - matthlifebytes.com
This software is freely distributed under the terms of the [FreeBSD](https://www.gnu.org/licenses/old-licenses/fdl-1.0.html) license.

Opening 'en0' for traffic capture.
Opening 'lo0' for traffic capture.
Opening 'utun0' for traffic capture.

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Review Forensic psychiatry in New Zealand. A review. [Int J Law Psychiatry. 2000]

What Can We Do TODAY!

- Become privacy literate, needs to be a major part of digital literacy
- Awareness of tools and concepts to minimize exposure (if desired, required)
- Stay current (things change QUICKLY)
- Discuss issues with colleagues, users
- Teach our colleagues, users

Resources List

- [Exposing the Hidden Web: An Analysis of Third-Party HTTP Requests on One Million Websites](#)
- [Cookies That Give You Away: The Surveillance Implications of Web Tracking](#)
- [Tracking the Trackers: Where Everybody Knows Your Username”](#)
- [The Web's New Gold Mine: Your Secrets](#)