Thursday Computer Club

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goo.gl/xvdszC

Tonight's Topics

- Lightweight Portable Security – RAM OS
- Nokia Lumia 520 off-contract smartphone
- Virtual Private Network (VPN)

Lightweight Portable Security

spi.dod.mil

Public Basic & Deluxe

Don't use computer's installed OS

Boot computer from CD or USB with a LIVE-CD operating system

A great idea for HOME online banking too

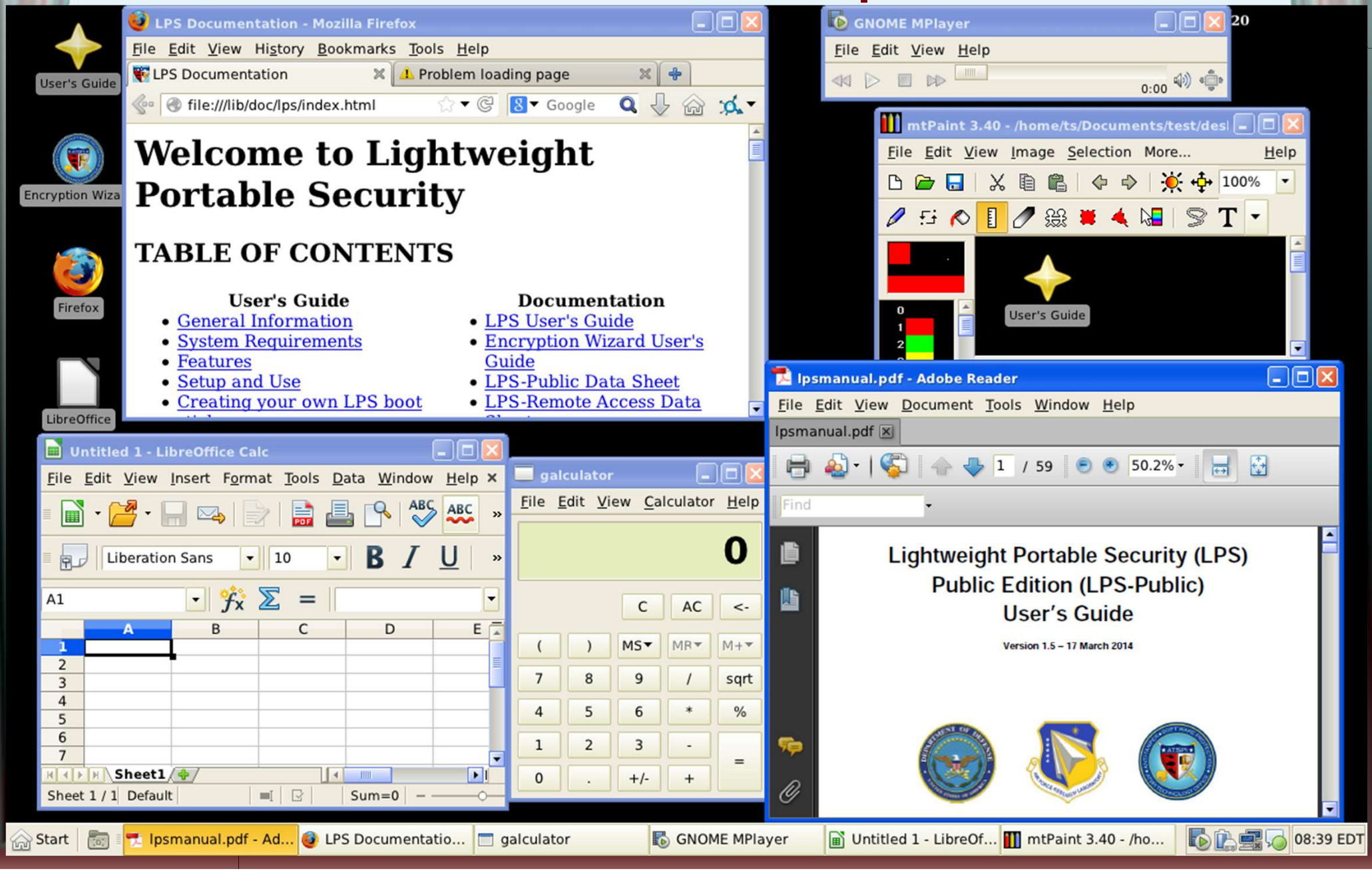
Take an old computer that doesn't even HAVE a hard drive on travel, do everything in Cloud.

Lightweight Portable Security

- Free & updated several times a year
- Download ISO file, burn to CD, install USB boot
- Change CMOS Boot sequence to include CD/USB
- RAM Only, leaves Hard-Drive completely unused
- If machine happens to be infected, less threat
- Excellent compliment to “Cloud” Posture
- Strongly consider for banking & email from HOME
- Boot to generate new passwords & keyrings
- Use this exclusively on Public WiFi

LPS Screen Capture

LPS Screen Capture



Nokia Lumia 520 Smartphone

- Available off-contract
- Pay-as-you-go “Go Phone” AT&T
- I only use as a WiFi device, never activated
- Available $30 amazon.com
- Suggest 32G or 64G memory card

Nokia Lumia 520 Smartphone

Nokia Lumia 520 Smartphone

- GSM/HSPA Phone
- Dual Core 1 GHz Qualcom MSM 8227
- 8G (SD card up to 64 G)
- WiFi 802.11 b/g/n
- GPS/Glonass
- Bluetooth
- FM Radio receiver (headphones antenna)
- 1430 mAh battery

Nokia Lumia 520 Smartphone

Nokia Lumia 520 Smartphone

- Create live.com email/account
- Calendar, One-Note, GPS, Maps, Bing search engine, web-browser, app-store, (wallet if you want pay apps), MP3 Player, auto-sync podcasts
- Also available through regular internet
- Comes with micro-USB 120VAC charger

VPN = Virtual Private Network

- Encrypts all content transiting through local wireless/wired carrier.
- You exit at the other end, typically the company's server.
- Protects you from snooping and 'fire-sheep' type attacks
- https://proxpn.com/ Twit50 offer code

Backup Slides

- Multi-Factor Authentication
- Proxy
- Useful Firefox add-ins

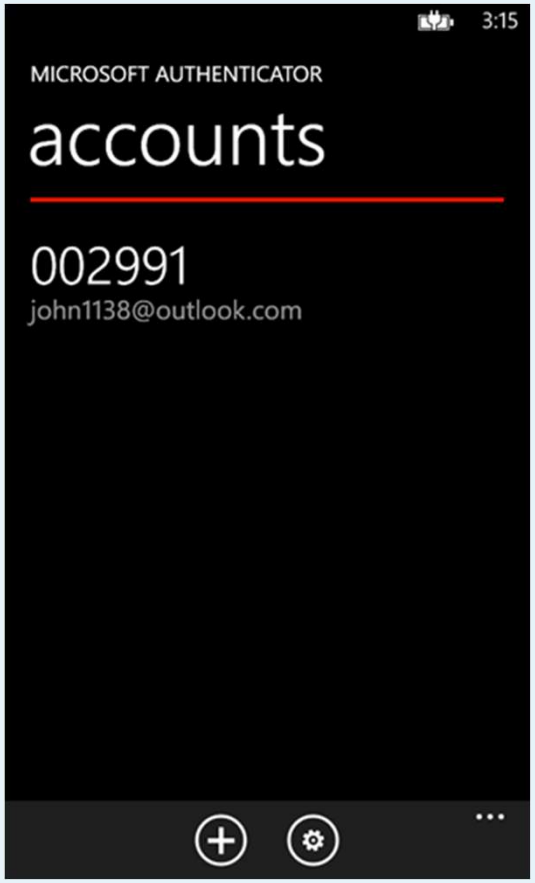
Multi-Factor Authentication

1. Know **memorized** password
2. Have phone application, device
3. Are fingerprint, biometric

(UPEK software fail & Disney)

4. They know You *or* You know Them,
   (typical of password recovery)

Second Factor Application: Phone



Second Factor Authentication application. The number changes every 30 seconds, so even if someone steals password, you still deny them access.

Second Factor Device

Developing standard: user buys and can use with Chrome browser and Google-Mail. More adoption expected across industry.

'browse' to about:config

My Mozilla modifications & Add-ins

Search "privacy.sessionstore.privacy_level"

Change 0 to 2

Install:

HTTPs everywhere: https://www.eff.org/https-everywhere

Netcraft Anti-phishing toolbar: http://toolbar.netcraft.com/

Web-of-Trust tool: https://www.mywot.com/

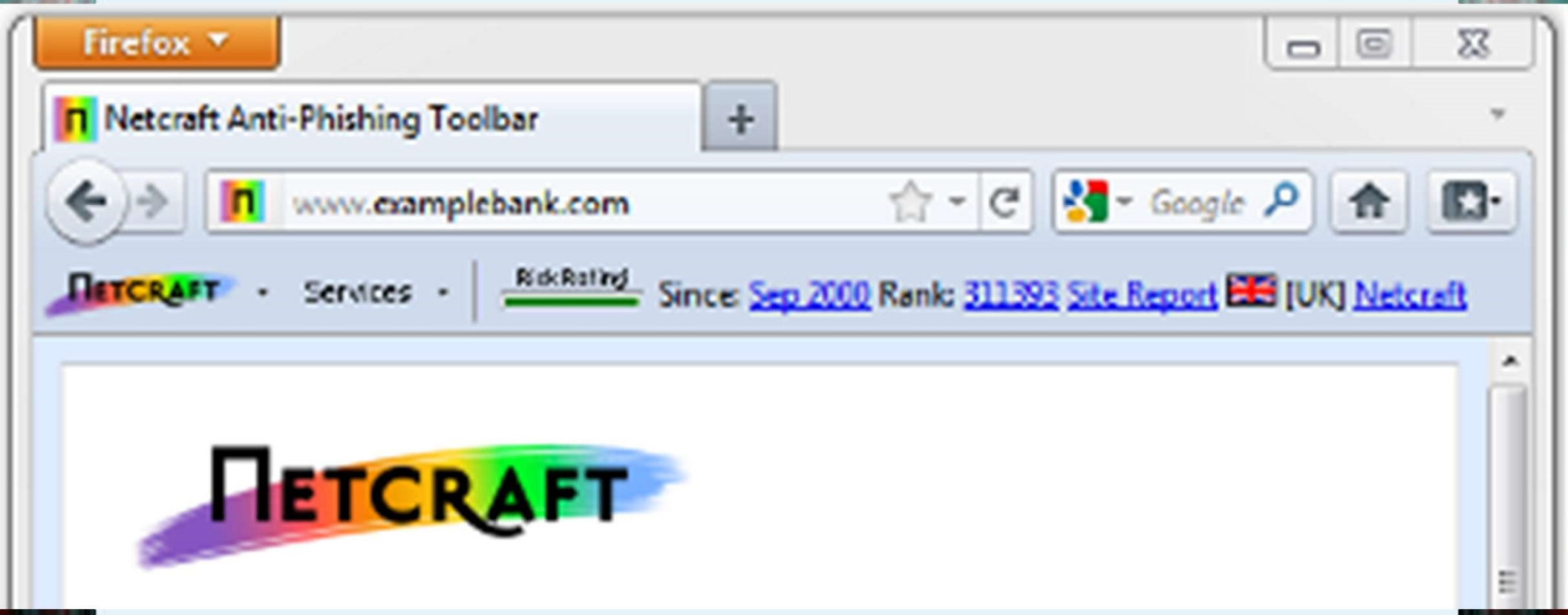
NoScript: https://noscript.net/

Lightbeam: https://www.mozilla.org/en-US/lightbeam/

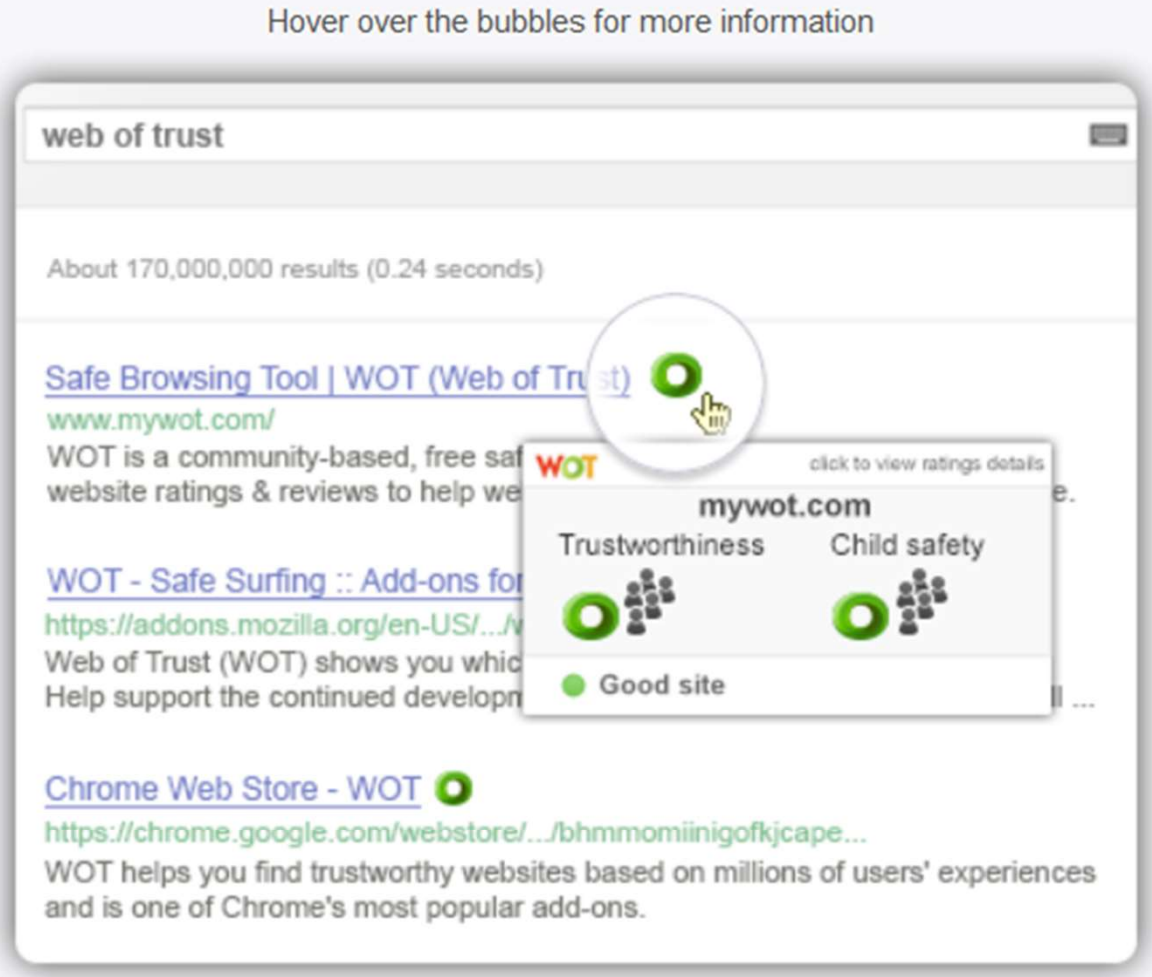
Privacy Badger: https://www.eff.org/privacybadger

HTTPS Everywhere

Netcraft Anti-Phishing Bar



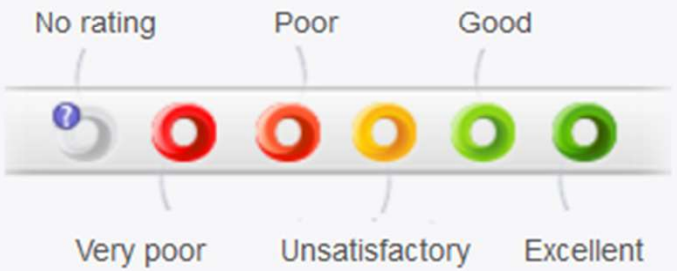
WOT : Web of Trust



Rating symbols

Reputation icons are shown on popular search engine results, social media platforms, online email, shortened URLs, and many popular sites.

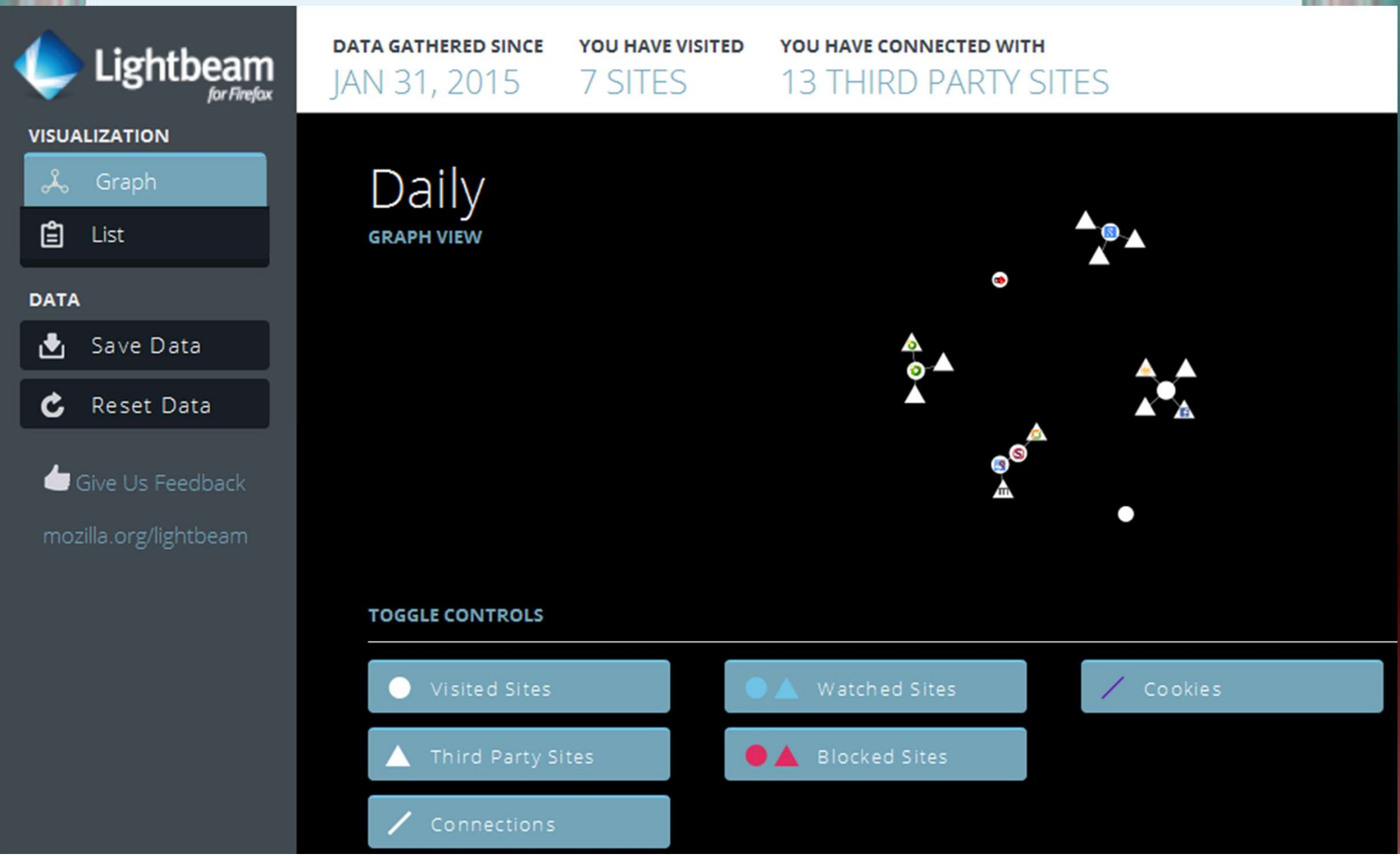
They show how much other users trust a site. Ratings are based on information from millions of users and trusted third-party sources.



NoScript

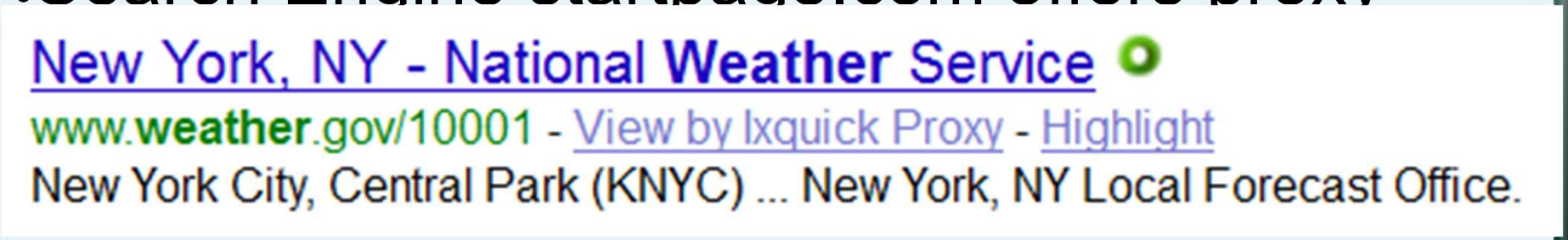
Mozilla Firefox Multiple Vulnerabilities
SA39240
2010-03-31
2010-04-05
1,251 view
0 comments
Highly critical
Security Byp
System acce
From remote
About NoScript...
Options...
Allow Scripts Globally (dangerous)
Allow all this page
Temporarily allow all this page
Untrusted
Allow secunia.com
Temporarily allow secunia.com

Lightbeam

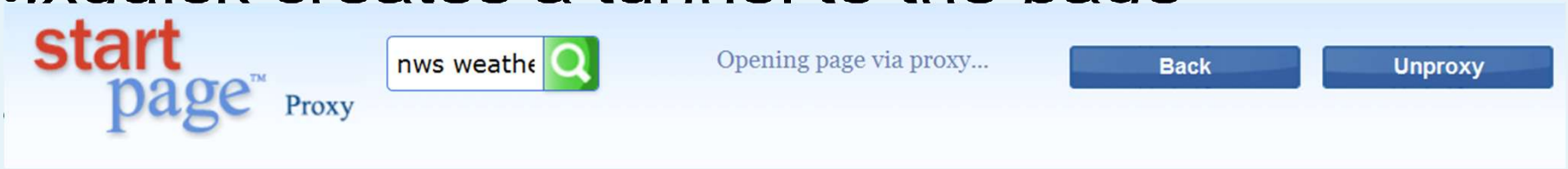

Lightbeam
for Firefox
VISUALIZATION
Graph
List
DATA
Save Data
Reset Data
Give Us Feedback
mozilla.org/lightbeam
DATA GATHERED SINCE
JAN 31, 2015
YOU HAVE VISITED
7 SITES
YOU HAVE CONNECTED WITH
13 THIRD PARTY SITES
Daily
GRAPH VIEW
TOGGLE CONTROLS
Visited Sites
Watched Sites
Cookies
Third Party Sites
Blocked Sites
Connections

Proxy

- Http can expose your traffic on Open WiFi
- Search Engine startpage.com offers proxy



- Ixquick creates a tunnel to the page



Press Release Newsletter update

Bowie Senior Center Computer Club Topics

Thursday, February 5 Noon-1:00 p.m.

Keep the following up to date with current patches:

Useful Windows Links

Windows (turn ON automatic updates)

Any Adobe product (UNinstall if not actually using: Acrobat Reader, Flash, Shockwave. Replace Reader with Foxit-Reader more secure http://www.foxitsoftware.com/Secure_PDF_Reader/ or even better, just view using Firefox's ability to display PDFs itself in a browser)

Java, uninstall unless REALLY need it, remember upgrading does NOT remove the malware prone previous versions, you have to manually uninstall them all! At the very least, disable Java in the browsers.

Keep anti-virus up to date, AVG, or MS-Security_Essentials

(also download and use MSERT.exe http://www.microsoft.com/security/scanner/en-gb/default.aspx)

Use HTTPS-Everywhere: (turn on the observatory or use Certificate Patrol)

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

Useful Windows Links

Add the link for AARP things happening in your neighborhood
Make a few slides of the social engineering techniques

Online U ces:

https://www.us-cert.gov/

http://www.verizonenterprise.com/DBIR/

https://www.onguardonline.gov/