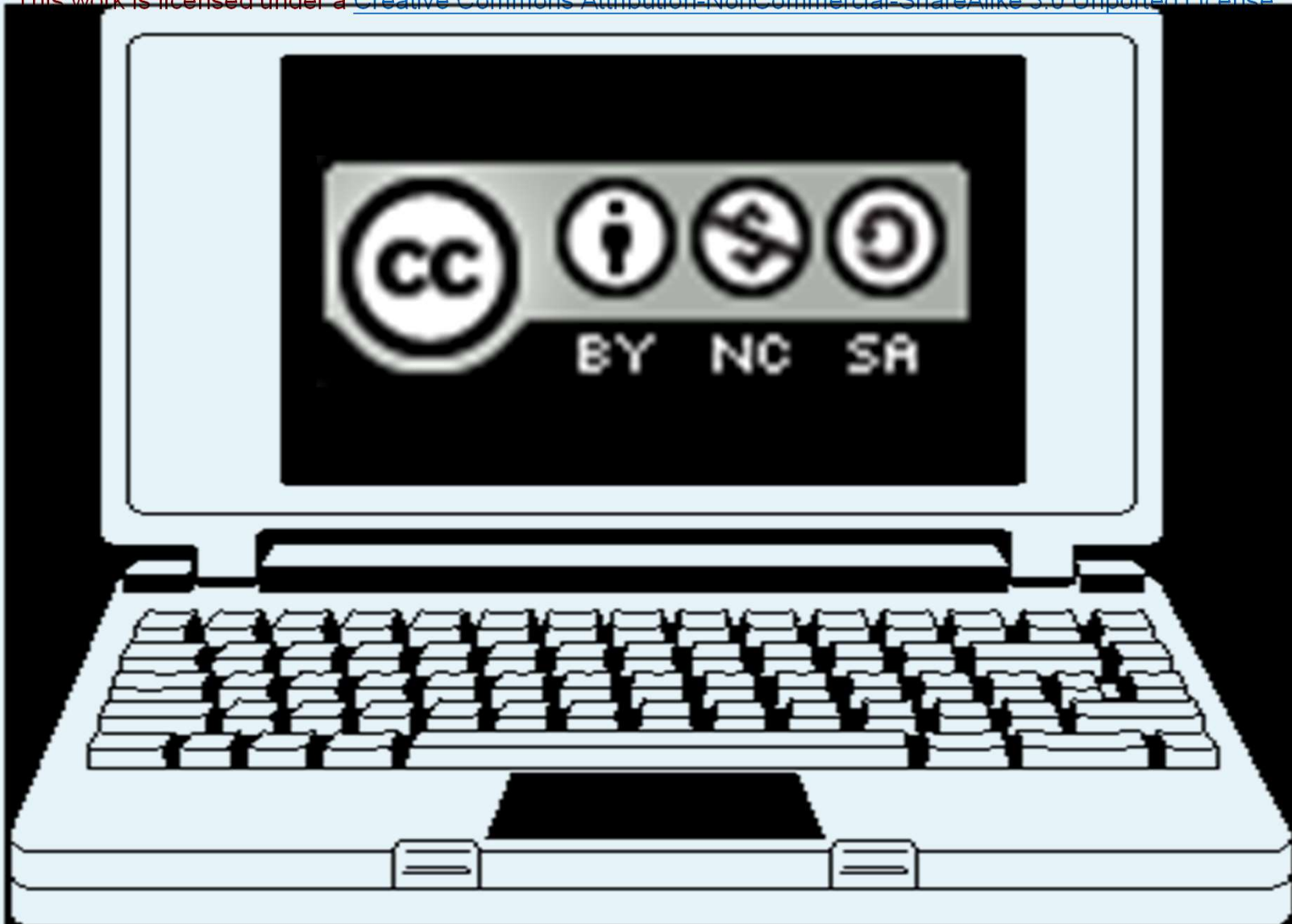


Thursday Computer Club

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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

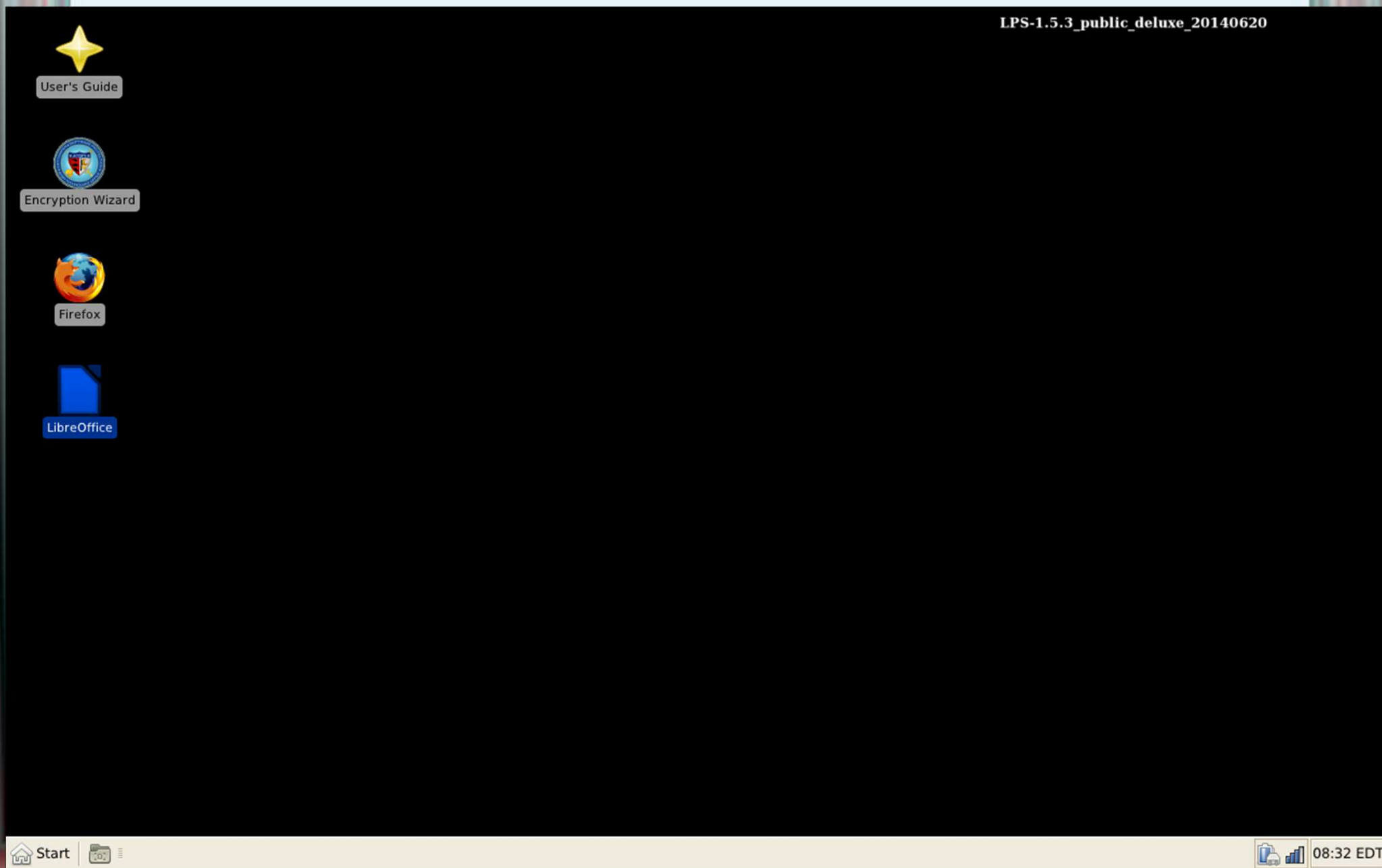
A great idea for HOME online banking too

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

The image is a collage of screenshots from a Linux desktop environment, specifically showing the GNOME desktop. The desktop background is dark with several icons on the left: a yellow star (User's Guide), a blue shield (Encryption Wizard), a Firefox icon, and a LibreOffice icon. The taskbar at the bottom shows the Start button and several open applications: **lpsmanual.pdf - Adobe Reader**, **LPS Documentation - Mozilla Firefox**, **calculator**, **GNOME MPlayer**, **Untitled 1 - LibreOffice Calc**, and **mtPaint 3.40 - /home/ts/Documents/test/desi**. The system clock in the bottom right corner shows **08:39 EDT**.

The main window is **LPS Documentation - Mozilla Firefox**, displaying the **file:///lib/doc/lps/index.html** page. The page has a title bar with standard window controls and a menu bar (File, Edit, View, History, Bookmarks, Tools, Help). The address bar shows the file path. The main content area has the heading **Welcome to Lightweight Portable Security** and a **TABLE OF CONTENTS** section. The table of contents is divided into two columns: **User's Guide** and **Documentation**. The **User's Guide** column lists: [General Information](#), [System Requirements](#), [Features](#), [Setup and Use](#), and [Creating your own LPS boot](#). The **Documentation** column lists: [LPS User's Guide](#), [Encryption Wizard User's Guide](#), [LPS-Public Data Sheet](#), and [LPS-Remote Access Data](#).

The **GNOME MPlayer** window is open, showing a video player interface with a progress bar at 0:00 and a volume icon.

The **mtPaint 3.40** window is open, showing a drawing application with a toolbar and a canvas. The canvas contains a yellow star icon and a text box labeled **User's Guide**.

The **lpsmanual.pdf - Adobe Reader** window is open, showing the **lpsmanual.pdf** document. The document title is **Lightweight Portable Security (LPS) Public Edition (LPS-Public) User's Guide**, and the version is **Version 1.5 - 17 March 2014**. The document features three logos at the bottom: the Department of Defense seal, the Air Force Research Laboratory seal, and the Air Force Research Laboratory seal.

The **calculator** window is open, showing a standard calculator interface with a display showing **0** and a numeric keypad.

The **Untitled 1 - LibreOffice Calc** window is open, showing a spreadsheet application with a toolbar and a grid. The grid has columns labeled A, B, C, D, E and rows labeled 1 through 7. The **Sheet1** tab is selected.

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 Qualcomm 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

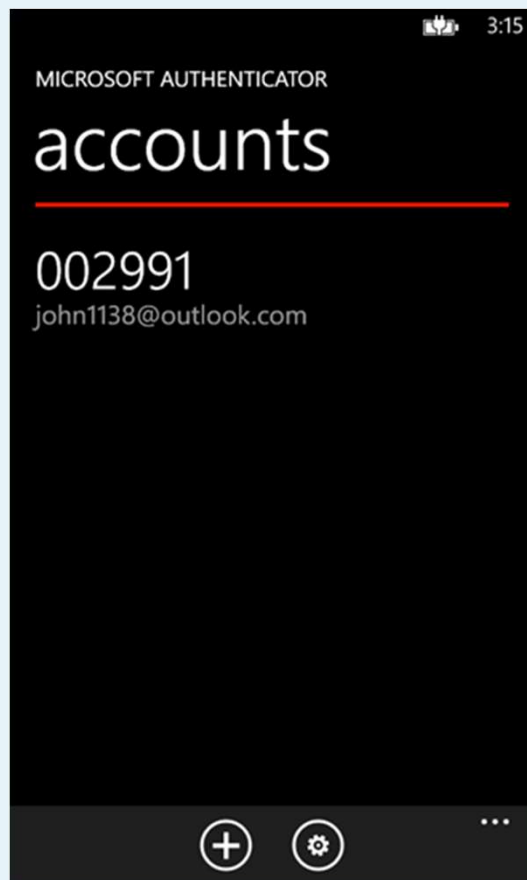
Multi-Factor Authentication

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



ELECTRONIC FRONTIER FOUNDATION
DEFENDING YOUR RIGHTS IN THE DIGITAL WORLD

[HOME](#)[ABOUT](#)[OUR WORK](#)[DEEPLINKS BLOG](#)[PRESS ROOM](#)

HTTPS Everywhere

[HTTPS Everywhere](#)[FAQ](#)[Report Bugs / Hack On The Code](#)[Creating HTTPS Everywhere Rulesets](#)[How to Deploy HTTPS Correctly](#)

HTTPS Everywhere is a Firefox, Chrome, and Opera extension that encrypts your communications with many major websites, making your browsing more secure. **Encrypt the web: Install HTTPS Everywhere today.**



Install in Firefox
Version 4 Stable



Install in Firefox for Android
Version 4 Stable

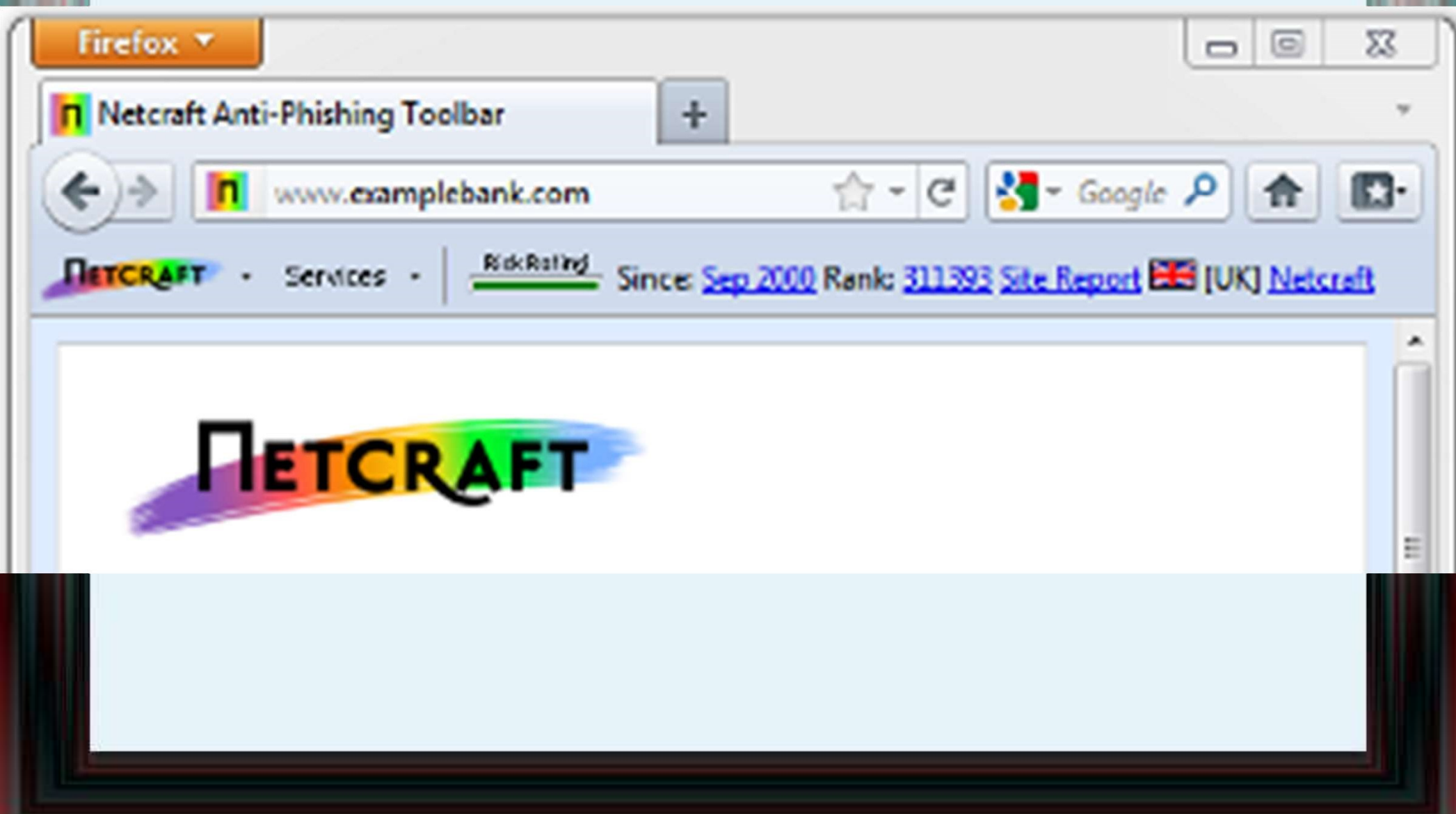


Install in Chrome
Beta Version



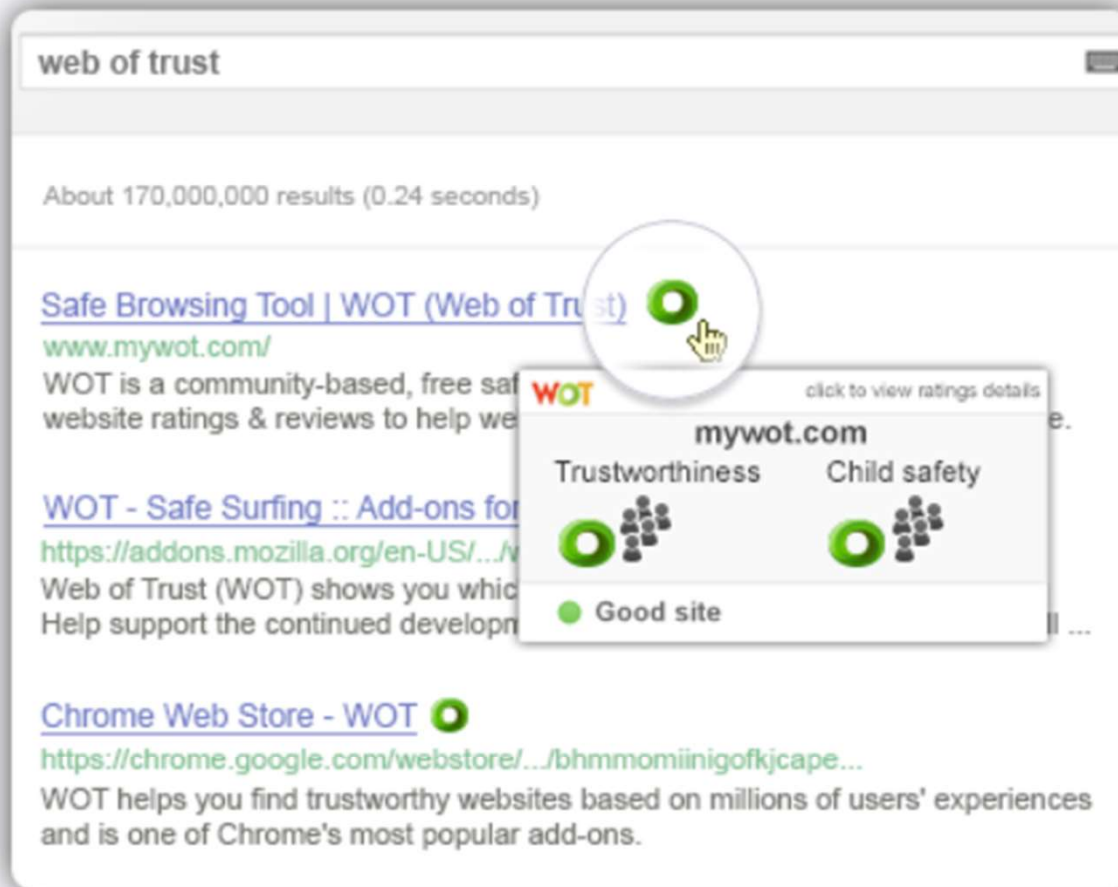
Install in Opera
Alpha Version

Netcraft Anti-Phishing Bar



WOT : Web of Trust

Hover over the bubbles for more information



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 Bypass
System access
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





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

[New York, NY - National Weather Service](#) 

[www.weather.gov/10001](#) - [View by Ixquick Proxy](#) - [Highlight](#)

New York City, Central Park (KNYC) ... New York, NY Local Forecast Office.

- Ixquick creates a tunnel to the page

start
page™
Proxy

nws weathe 

Opening page via proxy...

Back

Unproxy

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)

<http://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/>