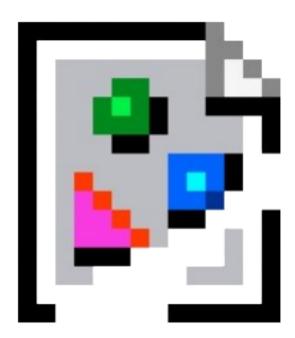
Security and Privacy Settings for Firefox Power Users







enable

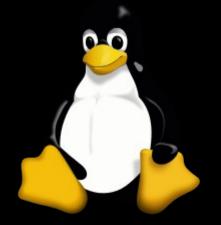
disable

restrict

enable

disable

restrict



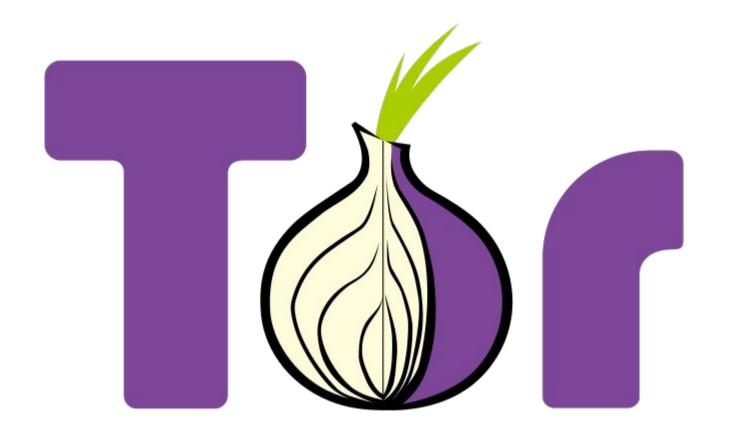




eliminating all fingerprinting



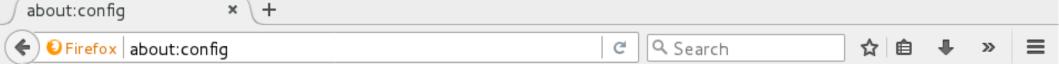
eliminating all fingerprinting



features to enable









This might void your warranty!

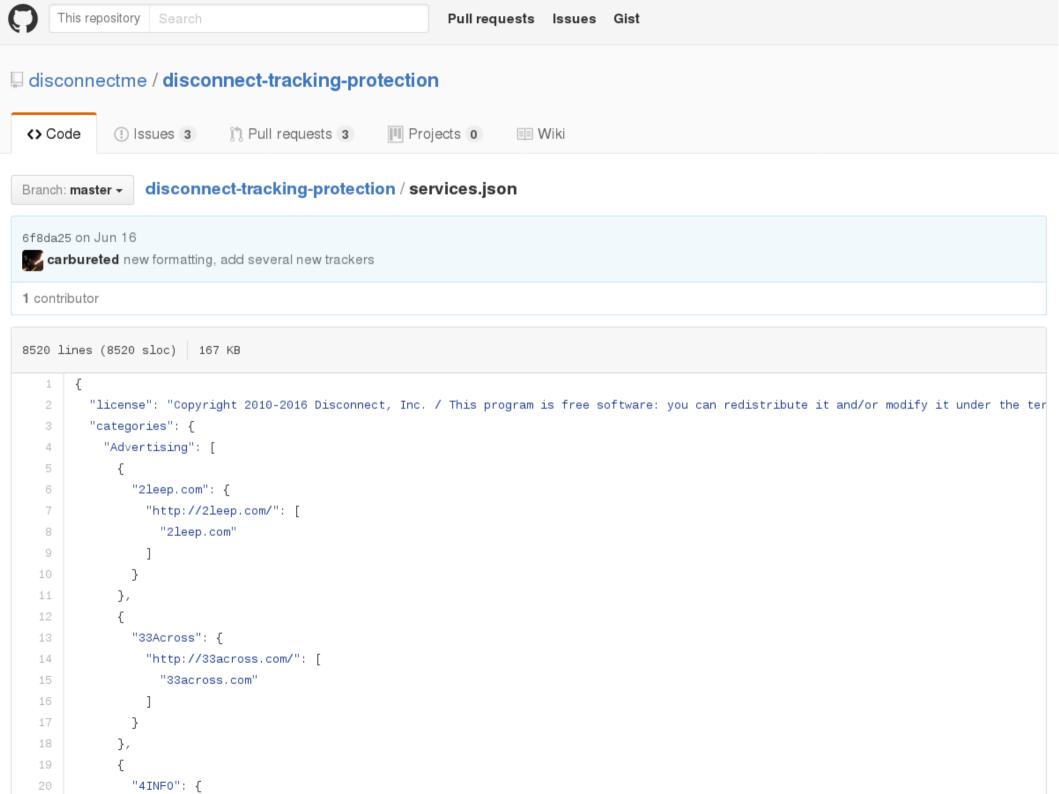
Changing these advanced settings can be harmful to the stability, security, and performance of this application. You should only continue if you are sure of what you are doing.



Laccept the risk!

privacy.trackingprotection.enabled



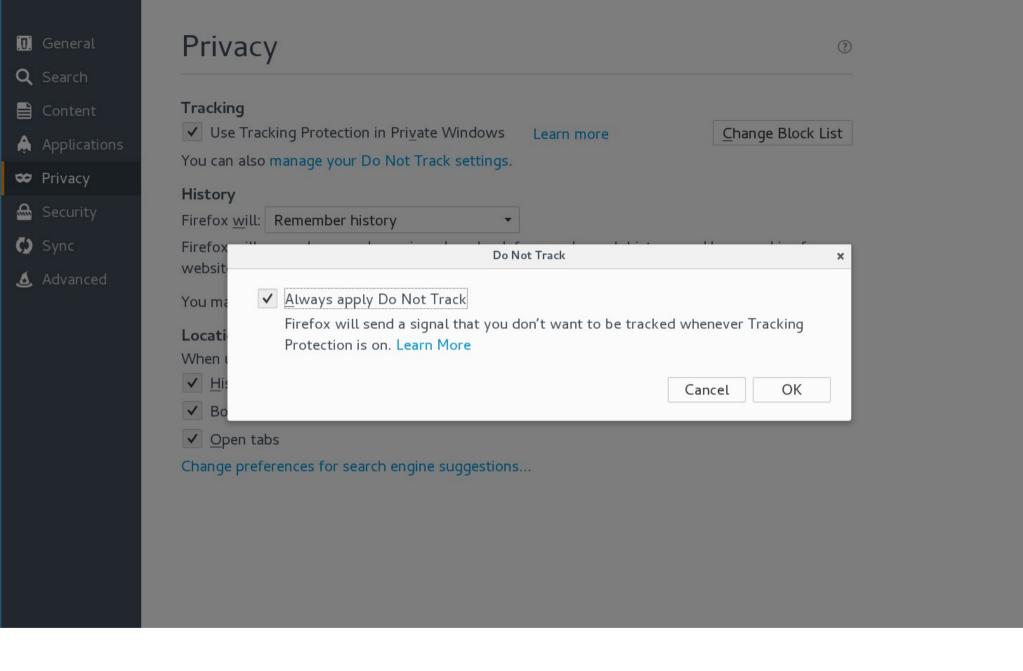






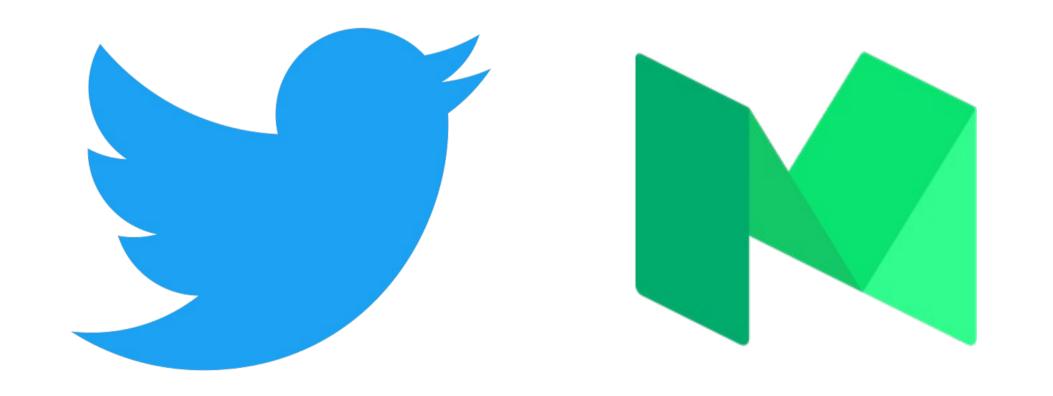
feeding.cloud.geek.nz/posts/how-tracking-protection-works-in-firefox

Do Not Track



privacy.donottrackheader.enabled

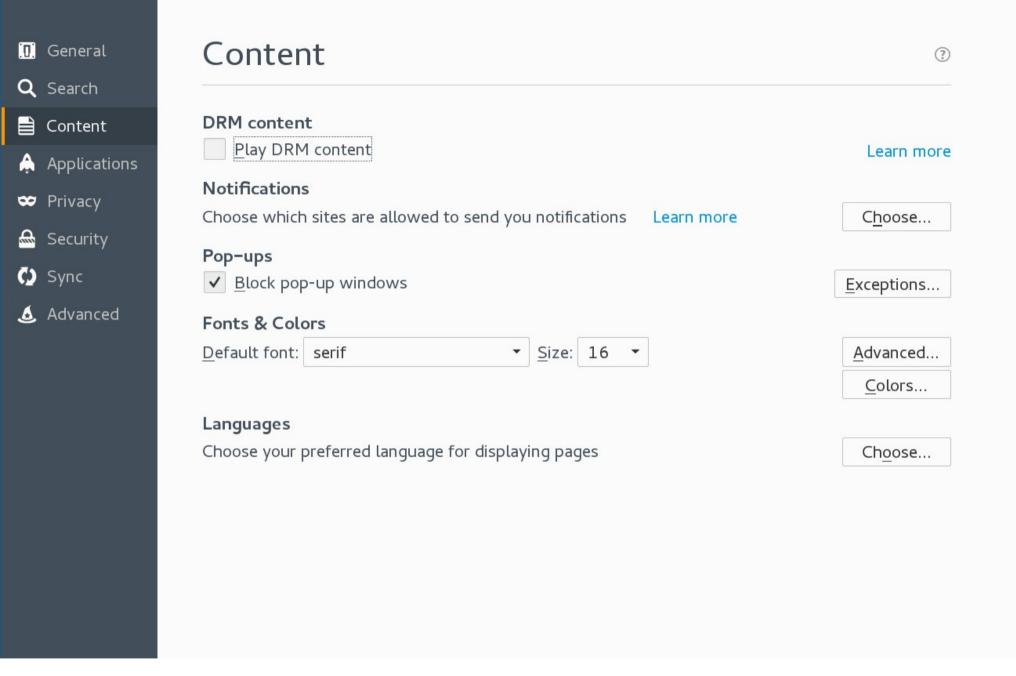
privacy.donottrackheader.enabled



features to disable







media.eme.enabled









Services



Search all add-ons



OpenH264 Video Codec provided by Cisco Systems, Inc.

This plugin is automatically installed by Mozilla to comply with the...

More

Preferences



Widevine Content Decryption Module provided by Google Inc.

Play back protected web video. More

Preferences









Gyrophone: Recognizing Speech From Gyroscope Signals

Yan Michalevsky Dan Boneh

Computer Science Department
Stanford University

Abstract

We show that the MEMS gyroscopes found on modern smart phones are sufficiently sensitive to measure acoustic signals in the vicinity of the phone. The resulting signals contain only very low-frequency information (<200Hz). Nevertheless we show, using signal processing and machine learning, that this information is sufficient to identify speaker information and even parse speech. Since iOS and Android require no special permissions to access the gyro, our results show that apps and active web content that cannot access the microphone can nevertheless eavesdrop on speech in the vicinity of the phone.

1 Introduction

Modern smartphones and mobile devices have many sensors that enable rich user experience. Being generally put to good use, they can sometimes unintentionally expose information the user does not want to share. While

Gabi Nakibly

National Research & Simulation Center Rafael Ltd.

gyroscopes are sufficiently sensitive to measure acoustic vibrations. This leads to the possibility of recovering speech from gyroscope readings, namely using the gyroscope as a crude microphone. We show that the sampling rate of the gyroscope is up to 200 Hz which covers some of the audible range. This raises the possibility of eavesdropping on speech in the vicinity of a phone without access to the real microphone.

As the sampling rate of the gyroscope is limited, one cannot fully reconstruct a comprehensible speech from measurements of a single gyroscope. Therefore, we resort to automatic speech recognition. We extract features from the gyroscope measurements using various signal processing methods and train machine learning algorithms for recognition. We achieve about 50% success rate for speaker identification from a set of 10 speakers. We also show that while limiting ourselves to a small vocabulary consisting solely of digit pronunciations ("one", "two", "three", ...) and achieve speech recognition success rate of 65% for the speaker dependent case and up



19 Apr 2017 on w3c | privacy | web browser | firefox | privacy engineering | chrome | sensors | light sensor

Stealing sensitive browser data with the W3C Ambient Light Sensor API

In this post we describe and demonstrate a neat trick to **exfiltrate** sensitive information from your browser using a surprising tool: your smartphone or laptop's ambient light sensor.

In short:

- 1. We provide background about the light sensor API and current discussions to expose it more broadly to websites.
- 2. We show how the color of the screen of the user's device can affect light sensor readings, and explain why this has dangerous security and privacy consequences. We focus on **extracting browsing history** and **stealing data from cross-origin frames**, which makes it possible for

device.sensors.enabled

dom.webaudio.enabled

Audio Fingerprinting Sites

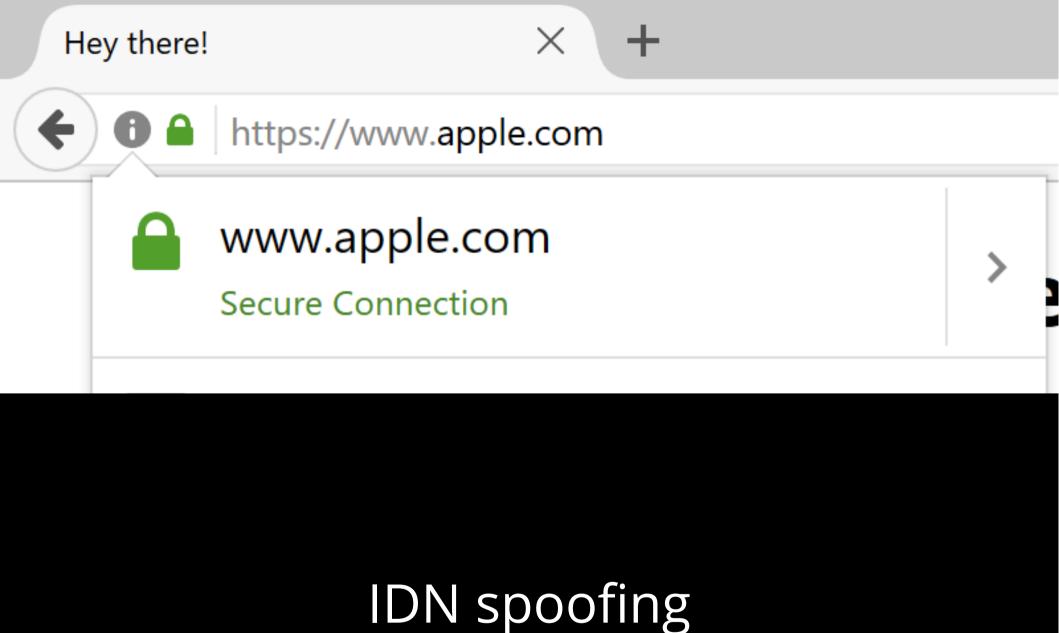
Project Home

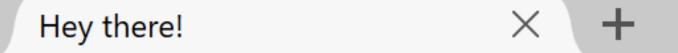
Sites with audio fingerprinting scripts.

In a crawl conducted during March 2016, these websites were found to run scripts on their homepages which contains audio fingerprinting code. Sites which contain cdn-net.com scripts are not actively using the technique. Sites which contain liverail.com scripts only perform a check for the existence of AudioContext, and add that bit of information to a fingerprint.

Show 25 ventries	Search:	
Showing 1 to 25 of 382 entries		

		Previous Next	
Alexa Rank	▲ Site URL	♦ Script Domain ♦	
409	http://expedia.com	cdn-net.com	
511	http://hotels.com	cdn-net.com	
1643	http://travelocity.com	cdn-net.com	
1858	http://couchtuner.ag	liverail.com	









https://www.xn--80ak6aa92e.com



www.xn--80ak6aa92e.com

Secure Connection

network.IDN_show_punycode

www.fsf.org
www.eff.org

layout.css.visited_links_enabled

Documentation Install

Community

Contribute

Install Rust

To install Rust, run the following in your terminal, then follow the onscreen instructions.

curl https://sh.rustup.rs -sSf | sh

Rust 1.17.0

April 27, 2017

dom.allow_cut_copy



Simple Service Discovery Protocol

browser.casting.enabled



dom.vr.enabled dom.gamepad.enabled

Tracking Protection in Firefox For Privacy and Performance

Georgios Kontaxis Columbia University

kontaxis@cs.columbia.edu

Monica Chew Mozilla Corporation

monica.m.chew@gmail.com

Abstract—We present Tracking Protection in the Mozilla Firefox web browser. Tracking Protection is a new privacy technology to mitigate invasive tracking of users' online activity by blocking requests to tracking domains. We evaluate our approach and demonstrate a 67.5% reduction in the number of HTTP cookies set during a crawl of the Alexa top 200 news sites. Since Firefox does not download and render content from tracking domains, Tracking Protection also enjoys performance benefits of a 44% median reduction in page load time and 39% reduction in data usage in the Alexa top 200 news sites.

I. INTRODUCTION

Online advertising has a symbiotic relationship with the Internet ecosystem. Advertisers pay content publishers, i.e., websites, to embed promotional material in the content they generate. Publishers in turn use that revenue to mitigate the need for users to directly purchase the content they consume. In 2013, revenue from US online advertising reached \$43 billion supporting the vest majority of publishers [1] A prime

II. DESIGN AND IMPLEMENTATION

Tracking is a mechanism to identify a person and their browsing behavior. Tracking Protection for Firefox addresses a particular type of tracking that occurs when content from a tracking domain appears across multiple websites. Initially, tracking domains identified users through third-party cookies. Early attempts to mitigate tracking focused on blocking cookies, but other technologies utilizing local storage, fingerprinting, and etags evolved to be as powerful as cookies [5]–[7].

To cover the wide array of tracking technologies in use, Tracking Protection for Firefox prevents any network communication between the browser and unsafe third-party origins. It filters outgoing HTTP requests and cancels ones to known tracking domains. One challenge of this approach is that blocking content can break a site's functionality or appearance. For example, elements on the page may depend on a script being loaded from a tracking domain. To minimize unanticipated side-effects of Tracking Protection, we rely on a curated blocklist. Previous approaches have used heuristics





pdfjs.disabled

network information



This is a free BBC service. However, your operator may charge you for the amount of data you use. If you are unsure how much data costs on your tariff, please contact your network operator.

Continue

Loading marcos@marcosc.com...

Loading standard view | Load basic HTML (for slow connections)

navigator.connection.type;

navigator.connection.type;

bluetooth, cellular, ethernet, none, wifi, wimax, other, mixed, unknown

navigator.connection.type;

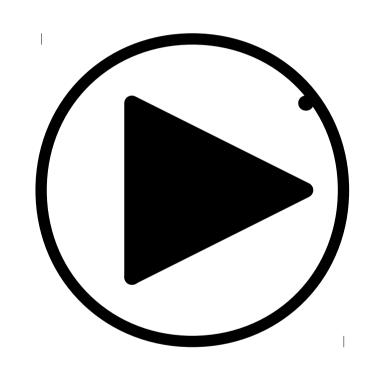
bluetooth, cellular, ethernet, none, wifi, wimax, other, mixed, unknown

navigator.connection.downlinkMax;



dom.netinfo.enabled

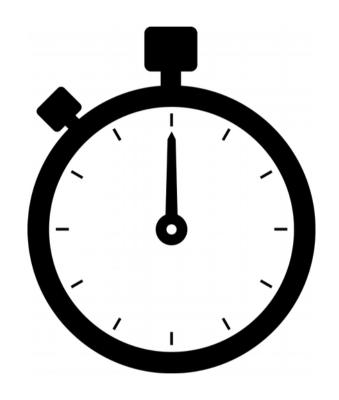
media.video_stats.enabled



webgl.enable-debug-renderer-info



dom.enable_performance



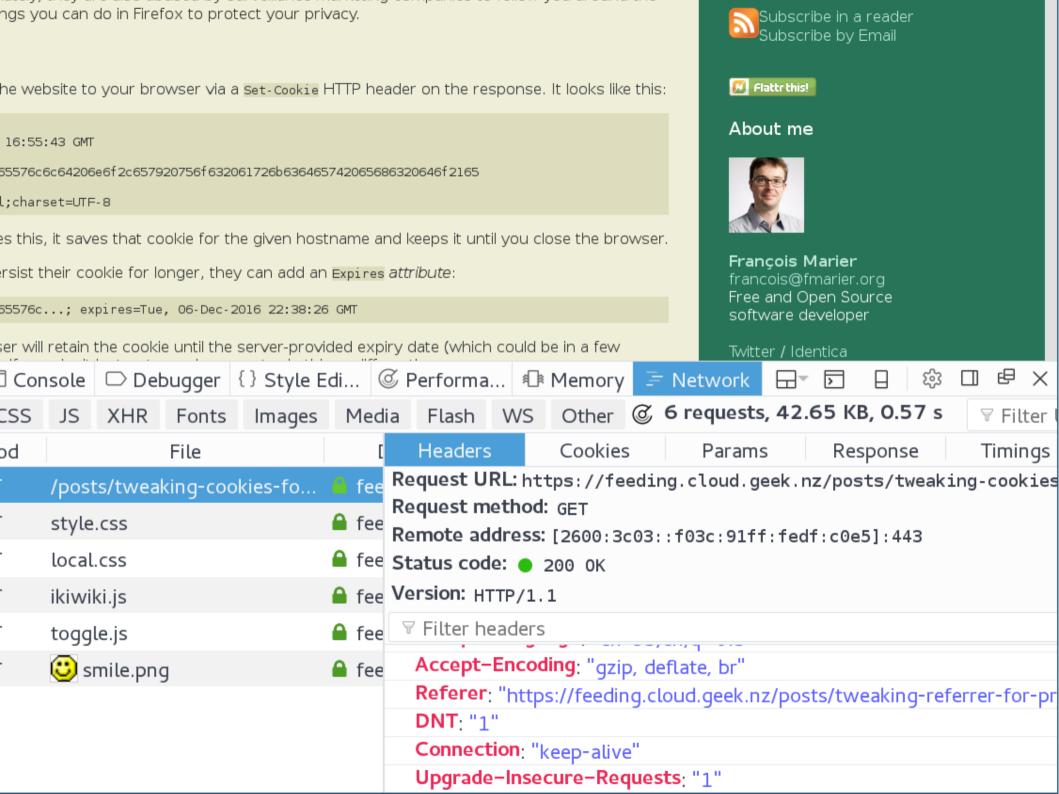
features to restrict





network.cookie.cookieBehavior = 0
network.cookie.thirdparty.sessionOnly = true
privacy.clearOnShutdown.cookies = false
network.cookie.lifetimePolicy = 3
network.cookie.lifetime.days = 5

feeding.cloud.geek.nz/posts/tweaking-cookies-for-privacy-in-firefox



network.http.referer.XoriginPolicy = 1

network.http.referer.XoriginPolicy = 1

network.http.referer.XOriginTrimmingPolicy = 2

feeding.cloud.geek.nz/posts/tweaking-referrer-for-privacy-in-firefox





Deceptive Site!

This web page at itisatrap.org has been reported as a deceptive site and has been blocked based on your security preferences.

Deceptive sites are designed to trick you into doing something dangerous, like installing software, or revealing your personal information, like passwords, phone numbers or credit cards.

Entering any information on this web page may result in identity theft or other fraud.

Get me out of here!

Why was this page blocked?

Ignore this warning



Reported Attack Page!

This web page at itisatrap.org has been reported as an attack page and has been blocked based on your security preferences.

Attack pages try to install programs that steal private information, use your computer to attack others, or damage your system.

Some attack pages intentionally distribute harmful software, but many are compromised without the knowledge or permission of their owners.

Get me out of here!

Why was this page blocked?

Ignore this warning



Reported Unwanted Software Page!

This web page at itisatrap.org has been reported to contain unwanted software and has been blocked based on your security preferences.

Unwanted software pages try to install software that can be deceptive and affect your system in unexpected ways.

Get me out of here!

Why was this page blocked?

Ignore this warning

pre-downloaded lists

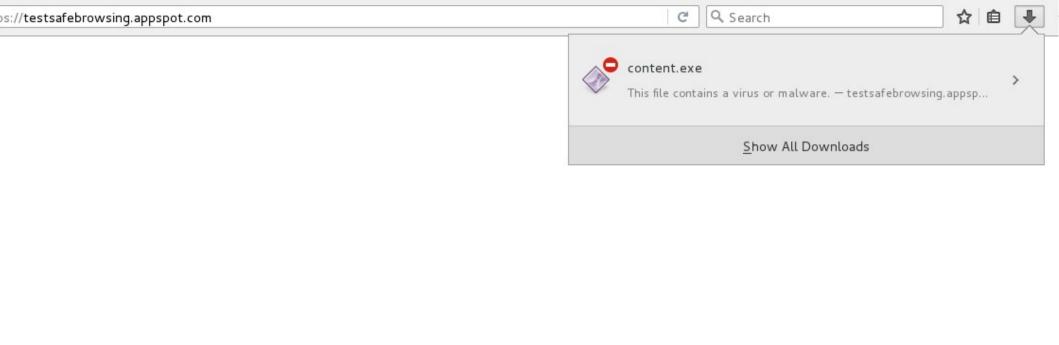
of URL hash prefixes

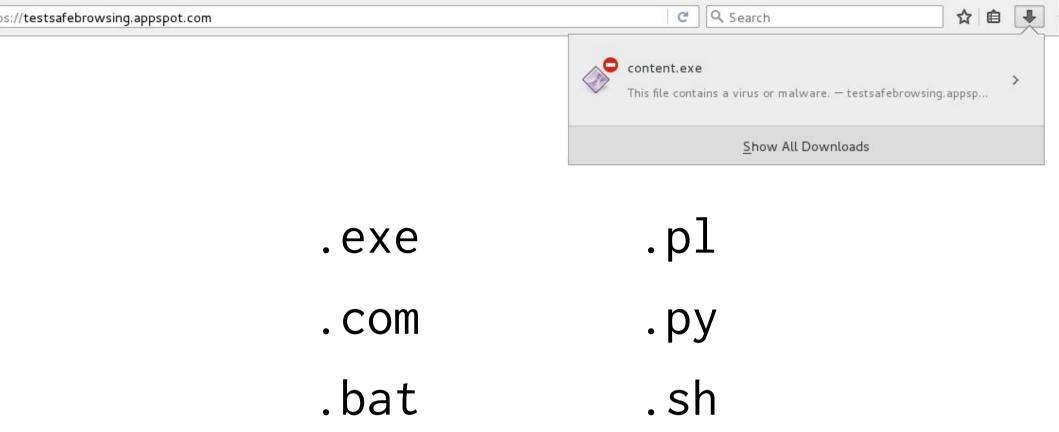
feeding.cloud.geek.nz/

5b31c2702efc7c81e4d197cd80113396 54da10d3315636cccbb536e868ff82a6 5b31c2702efc7c81e4d197cd80113396 54da10d3315636cccbb536e868ff82a6

5b31c2702efc7c81e4d197cd80113396 54da10d3315636cccbb536e868ff82a6

feeding.cloud.geek.nz/posts/how-safe-browsing-works-in-firefox

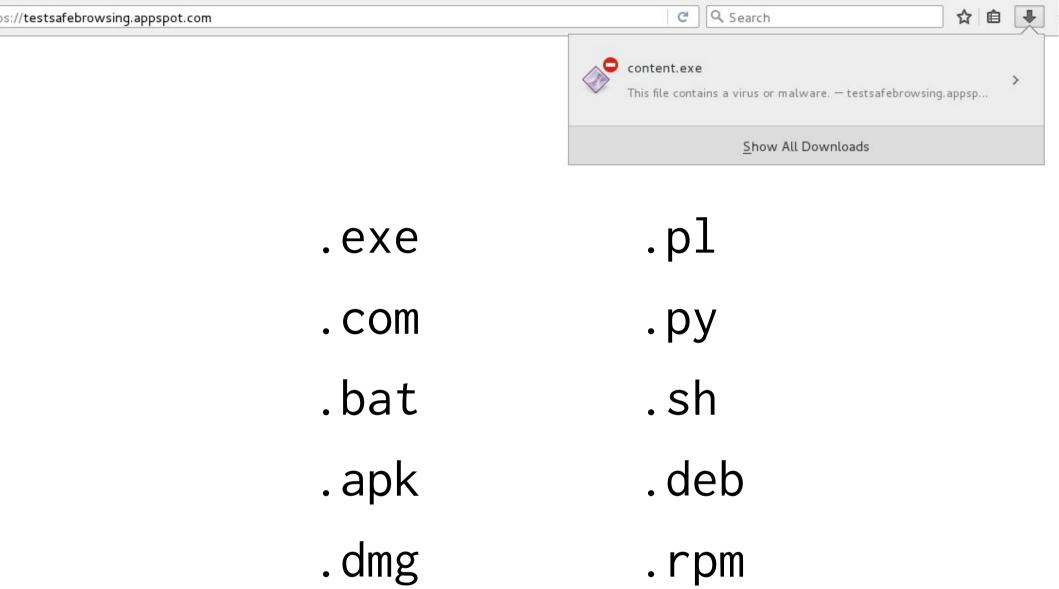




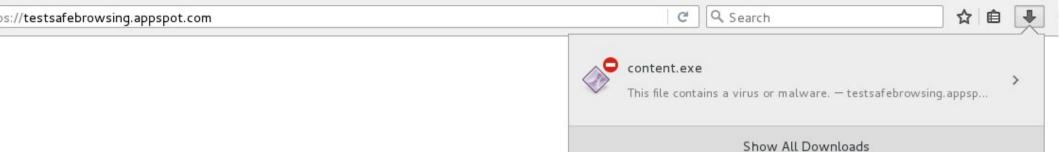
. deb

.rpm

.apk .dmg



toolkit/components/downloads/ApplicationReputation.cpp



filename and size

URLs

hash of contents

locale

toolkit/components/downloads/ApplicationReputation.cpp



Q Search



Applications

∞ Privacy

Security

Sync

▲ Advanced

Security

(?)

General

✓ <u>W</u>arn me when sites try to install add-ons

Exceptions...

✓ Block dangerous and deceptive content

✓ Block <u>d</u>angerous downloads

✓ Warn me about unwanted and uncommon software

Logins

✓ Remember logins for sites

Use a master password

Exceptions...

Change Master Password...

Saved Logins...







Internet Engineering Task Force (IETF)

Request for Comments: 6336

Updates: 5245

Category: Standards Track

ISSN: 2070-1721

M. Westerlund Ericsson C. Perkins

University of Glasgow

July 2011

IANA Registry for Interactive Connectivity Establishment (ICE) Options

Abstract

It has been identified that "Interactive Connectivity Establishment (ICE): A Protocol for Network Address Translator (NAT) Traversal for Offer/Answer Protocols" (RFC 5245) is missing a registry for ICE options. This document defines this missing IANA registry and updates RFC 5245.

Status of This Memo

This is an Internet Standards Track document.

This document is a product of the Internet Engineering Task Force (IETF). It represents the consensus of the IETF community. It has received public review and has been approved for publication by the

revealing non-VPN IP address

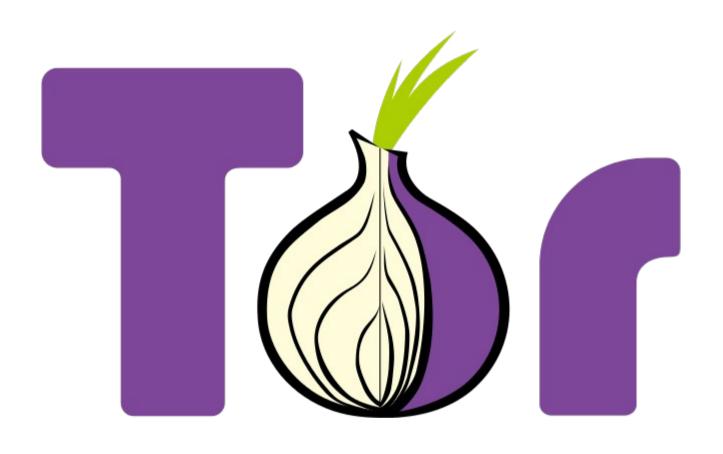
leaking internal IP address

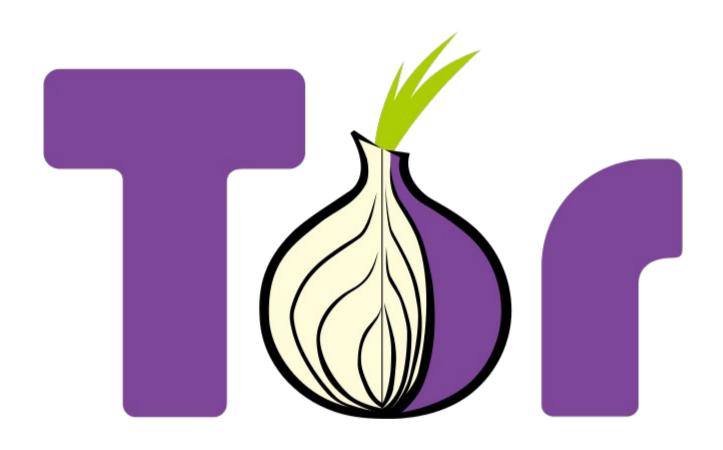


revealing non-VPN IP address

leaking internal IP address

media.peerconnection.ice.no_host = true





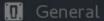
wiki.mozilla.org/Security/Tor_Uplift

privacy.resistFingerprinting

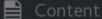


other things to keep in mind

p@ssW0rd5



Q Search



∞ Privacy

Security

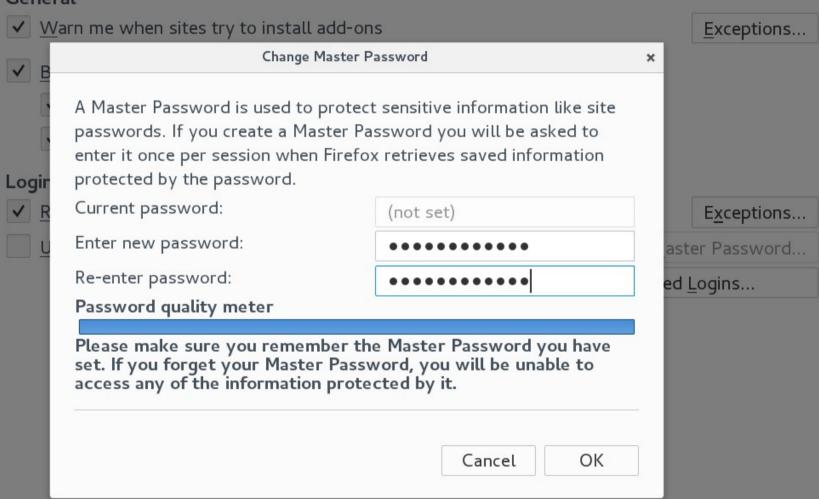
() Sync

. Advanced

Security









Create a Firefox Account

to continue to Firefox Sync

esnowden@kolabnow.com

•••••

Show

How old are you?

33

By proceeding, you agree to the <u>Terms of Service</u> and <u>Privacy Notice</u> of Firefox cloud services.

Create account

Have an account? Sign in



Q search for add-ons





Easy Passwords 1.1.4

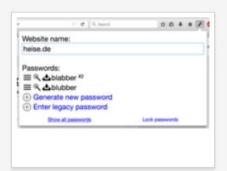
by Wladimir Palant

Use a single master password to generate secure unique passwords for all websites - without losing track of the passwords you cannot change.











About this Add-on

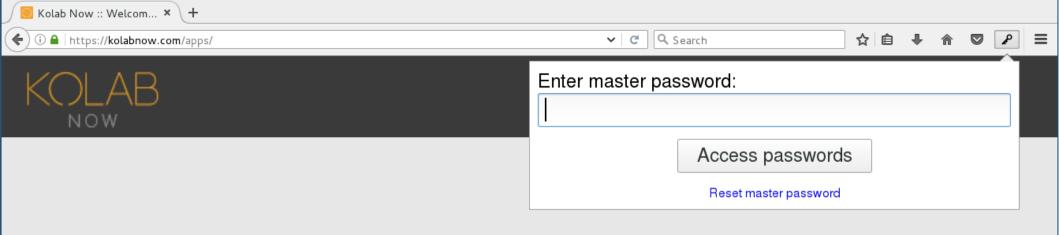
Tired of having to remember dozens of passwords that have to follow arbitrary rules? With Easy Passwords you only need to remember one - individual passwords for any website will be derived from it. And if some password cannot be changed then you can still store it in Easy Passwords, encrypted securely.

Features

Add-on home page

♠ Support site

Version 1.1.4 Info Last Updated: September 22, 2016 Released under Mozilla Public License, version 2.0



LC	GIN			
	LC	LOGIN	LOGIN	LOGIN



EXTENSIONS THEMES COLLECTIONS MORE...

search for add-ons



Become a Test Pilot

Unlock early access to experimental browser features.

Get Started



EXPLORE

Featured

Most Popular

Top Rated

CATEGORIES

Alerts & Updates

Appearance

Bookmarks

Download Management

Feeds, News & Blogging

Games & Entertainment

Language Support

Featured Extensions See all »



ColorfulTabs

★★★★ (1,015)



Forecastfox (fix version)

Appearance

★★★★★ (215)



YouTube No Buffer (Sto...

Games & Entertainment **** (19)



Clear Console

Privacy & Security

★★★★★ (140)

Bluhell Firewall

Privacy & Security

★★★★★ (304)

Google search link fix

Privacy & Security ★★★★★ (66)

Up & Coming Extensions See all »



Magic Actions for YouT...

Photos, Music & Videos



Youtube To Mp3 / Mp4 ... Download Management

MOST POPULAR All »

- 1. Adblock Plus 19,593,519 users
- 2. Video DownloadHelper 4,416,238 users
- 3. Easy Screenshot 2,623,662 users
- 4. NoScript Security Suite 2.120.071 users
- Firebug 1,957,906 users
- 6. uBlock Origin 1,831,171 users
- Ghostery 1,367,786 users
- 8. DownThemAll! 1,212,982 users
- Greasemonkey 1,210,288 users
- 10 Download VouTube Video



EXTENSIONS THEMES COLLECTIONS MORE...





HTTPS Everywhere 5.2.6

by EFF Technologists

Encrypt the web! HTTPS Everywhere is a Firefox extension to protect your communications by enabling HTTPS encryption automatically on sites that are known to support it, even when you type URLs or follow links that omit the https: prefix.

+ Add to Firefox

Privacy Policy



Register or Log in

Other Applications

mozilla



EXTENSIONS THEMES COLLECTIONS MORE...





HTTPS by default 0.3

by Rob W

**** 7 user reviews 3,021 users

Request websites over secure https by default from the location bar instead of insecure http.

+ Add to Firefox



Q search for add-ons



Privacy Badger 1.8.1

by EFF Technologists

115 user reviews 94,902 users

Protects your privacy by blocking spying ads and invisible trackers. Warning: This add-on is in alpha, so you may find some bugs! Read more: https://www.eff.org /privacybadger

+ Add to Firefox

Privacy Policy

Register or Log in

Other Applications

Q search for add-ons

mozilla



Add-ons

EXTENSIONS THEMES COLLECTIONS MORE...

REQUIRES RESTART



NoScript Security Suite 2.9.0.14

by Giorgio Maone

The best security you can get in a web browser! Allow active content to run only from sites you trust, and protect yourself against XSS and Clickjacking attacks.

+ Add to Firefox

Privacy Policy



**** 1,587 user reviews

2,120,071 users



Enjoy this add-on?



Q search for add-ons

6 user reviews

8,347 users





RequestPolicy Continued 1.0.beta12.4

by Martin Kimmerle

Be in control of which cross-site requests are allowed. Improve the privacy of your browsing by not letting other sites know your browsing habits. Secure yourself from Cross-Site Request Forgery (CSRF) and other attacks.

+ Add to Firefox



About this Add-on

This add-on is the continuation of RequestPolicy, which has been created by Justin Samuel until 2012.

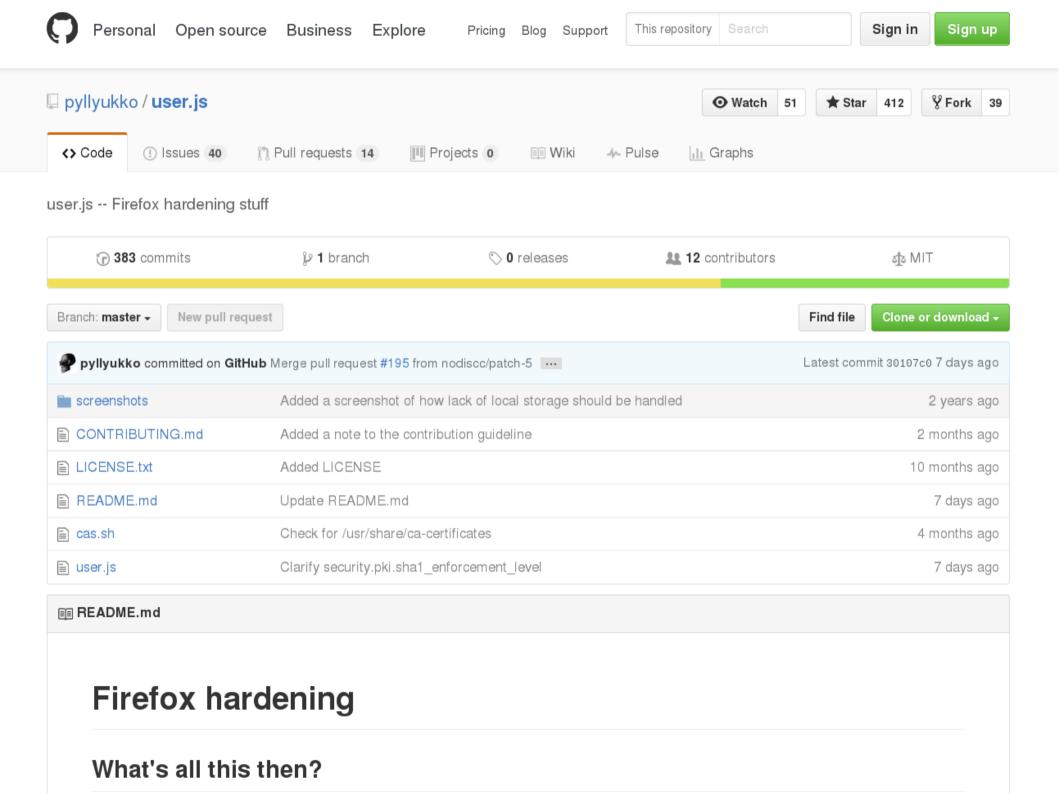
Quick Start:

· Learn how to use RequestPolicy



Support E-mail

Version 1.0.beta12.4 Info Last Updated: October 9, 2016 Released under GNU General Public License, version 3.0



```
user_pref("privacy.trackingprotection.enabled", true);
user_pref("privacy.donottrackheader.enabled", true);
user_pref("device.sensors.enabled", false);
user_pref("media.eme.enabled", false);
user_pref("browser.casting.enabled", false);
user_pref("pdfjs.disabled", true);
user_pref("dom.vr.enabled", false);
user_pref("dom.gamepad.enabled", false);
user_pref("dom.webaudio.enabled", false);
user_pref("dom.allow_cut_copy", false);
user_pref("dom.netinfo.enabled", false):
user_pref("media.video_stats.enabled", false);
user_pref("dom.enable_performance", false);
user_pref("webgl.enable-debug-renderer-info", false);
user_pref("media.peerconnection.ice.no_host", true);
user_pref("privacy.resistFingerprinting", true);
user_pref("network.http.referer.XOriginPolicy", 1);
user_pref("privacy.clearOnShutdown.cookies", false);
user_pref("network.cookie.cookieBehavior", 0);
user_pref("network.cookie.lifetimePolicy", 3);
user_pref("network.cookie.lifetime.days", 5);
user_pref("network.cookie.thirdparty.sessionOnly", true);
user_pref("layout.css.visited_links_enabled", false);
user_pref("network.IDN_show_punycode", true);
user_pref("browser.urlbar.trimURLs", false);
user_pref("browser.xul.error_pages.expert_bad_cert", true);
```

@fmarier

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yellow triangle: https://www.flickr.com/photos/tillwe/2974932670/

jail cell: https://www.flickr.com/photos/mikecogh/5997920696

speedbump: https://www.flickr.com/photos/jputnam/9078451876/

cookie: https://www.flickr.com/photos/amagill/34754258/

chromecast: https://www.flickr.com/photos/medithit/10165535814/

lamp: https://www.flickr.com/photos/60588258@N00/3806005225