Cyber Security Threats in Digital Advertising

Karl Dominguez

Introduction

- IBM Business Services, Threat Analyst
- Malware Research and Software Development, zvelo Inc.
- Mobile Malware Analyst, Asurion LLC
- Threat Research Engineer, Trend Micro

Topics

- Digital Advertising Economy

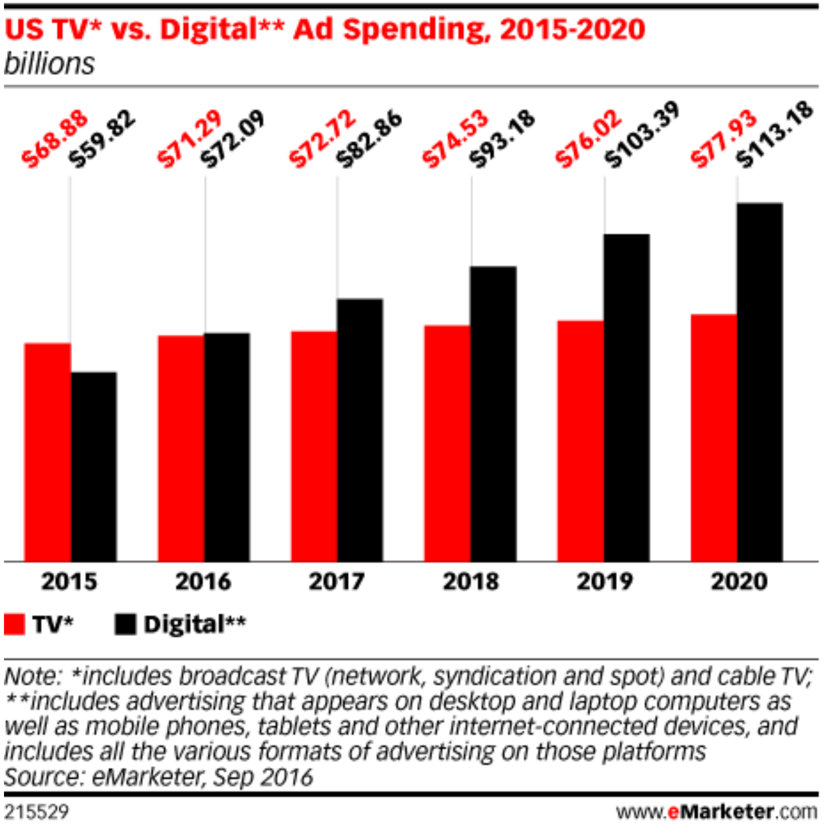
- Ad Tech Ecosystem

- The Ad Fraud:
  - Publisher-based Ad Fraud
  - Malicious and “Objectionable” Content
  - Non Human Traffic

- The Bieber Project

Digital Advertising Economy

US Digital Ad Spending for 2016 is at $72 billion



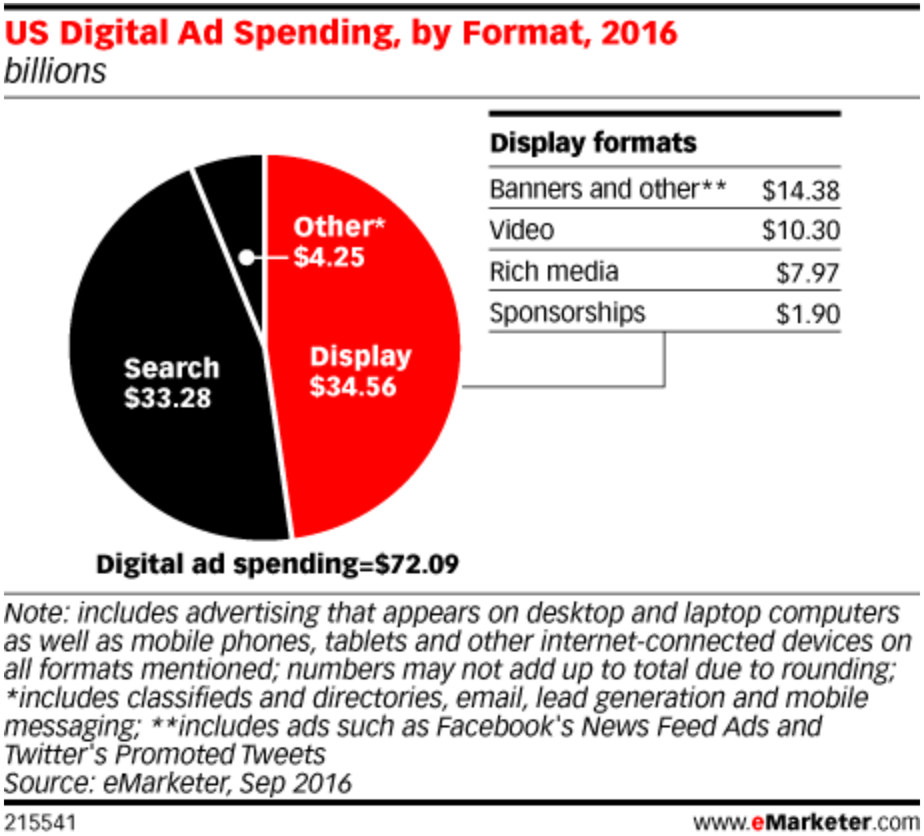
US TV* vs. Digital Ad Spending, 2015-2020**

billions

*Note: *includes broadcast TV (network, syndication and spot) and cable TV; **includes advertising that appears on desktop and laptop computers as well as mobile phones, tablets and other internet-connected devices, and includes all the various formats of advertising on those platforms*

Source: eMarketer, Sep 2016

215529 www.eMarketer.com



US Digital Ad Spending, by Format, 2016

billions

Display formats	
Banners and other**	$14.38
Video	$10.30
Rich media	$7.97
Sponsorships	$1.90

Digital ad spending=$72.09

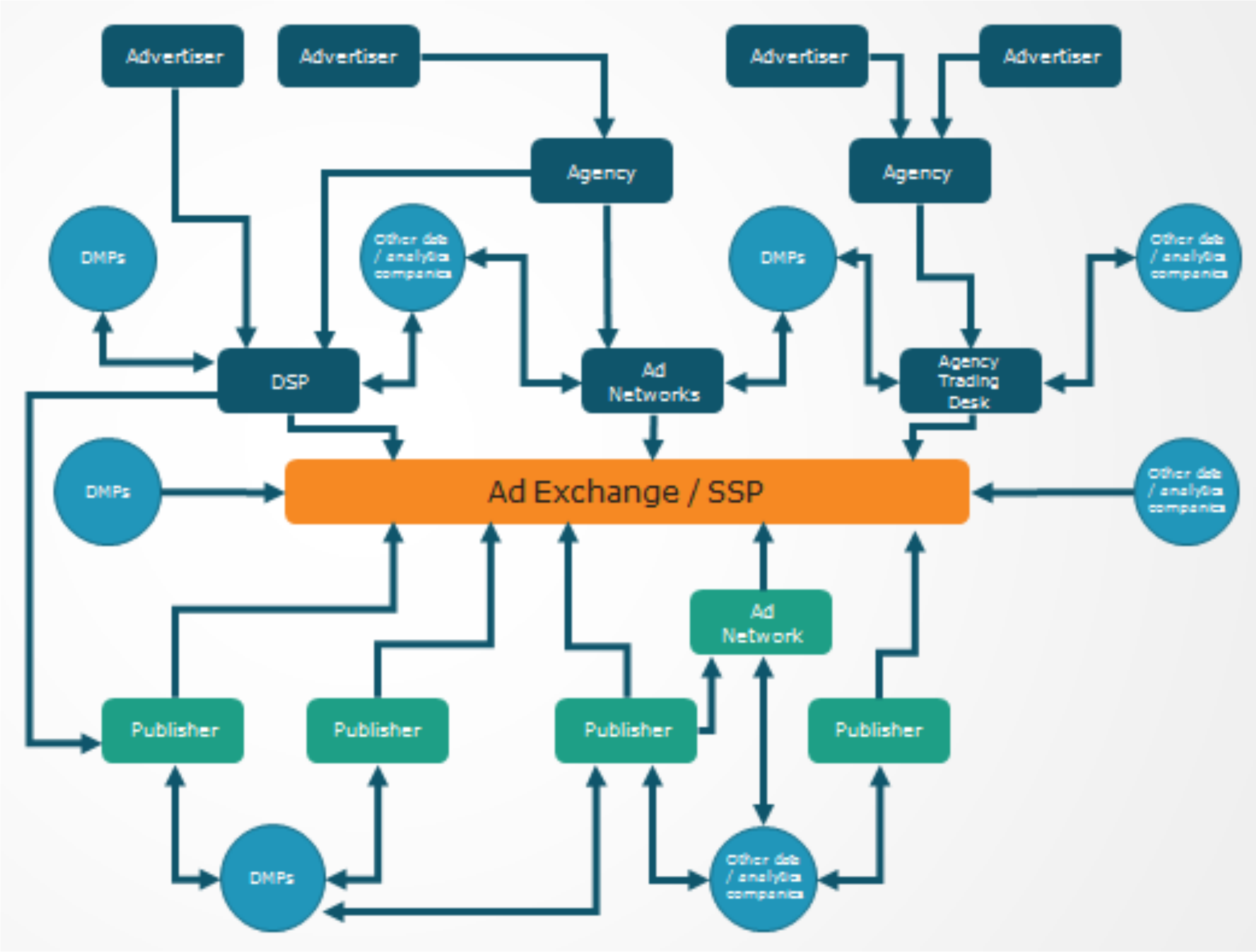
*Note: includes advertising that appears on desktop and laptop computers as well as mobile phones, tablets and other internet-connected devices on all formats mentioned; numbers may not add up to total due to rounding; *includes classifieds and directories, email, lead generation and mobile messaging; **includes ads such as Facebook's News Feed Ads and Twitter's Promoted Tweets*

Source: eMarketer, Sep 2016

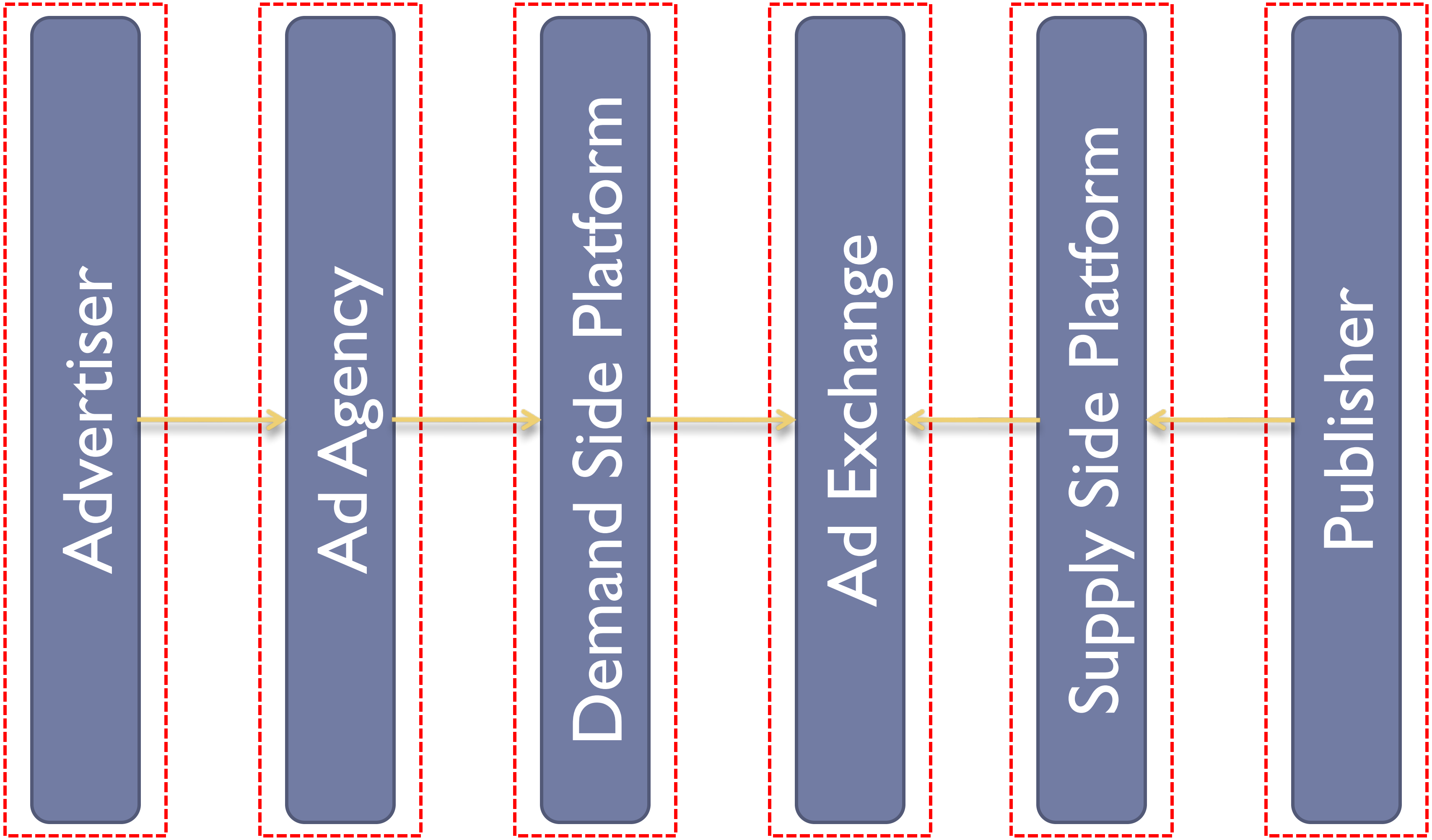
215541 www.eMarketer.com

Source: https://www.emarketer.com/Article/US-Digital-Ad-Spending-Surpass-TV-this-Year/1014469

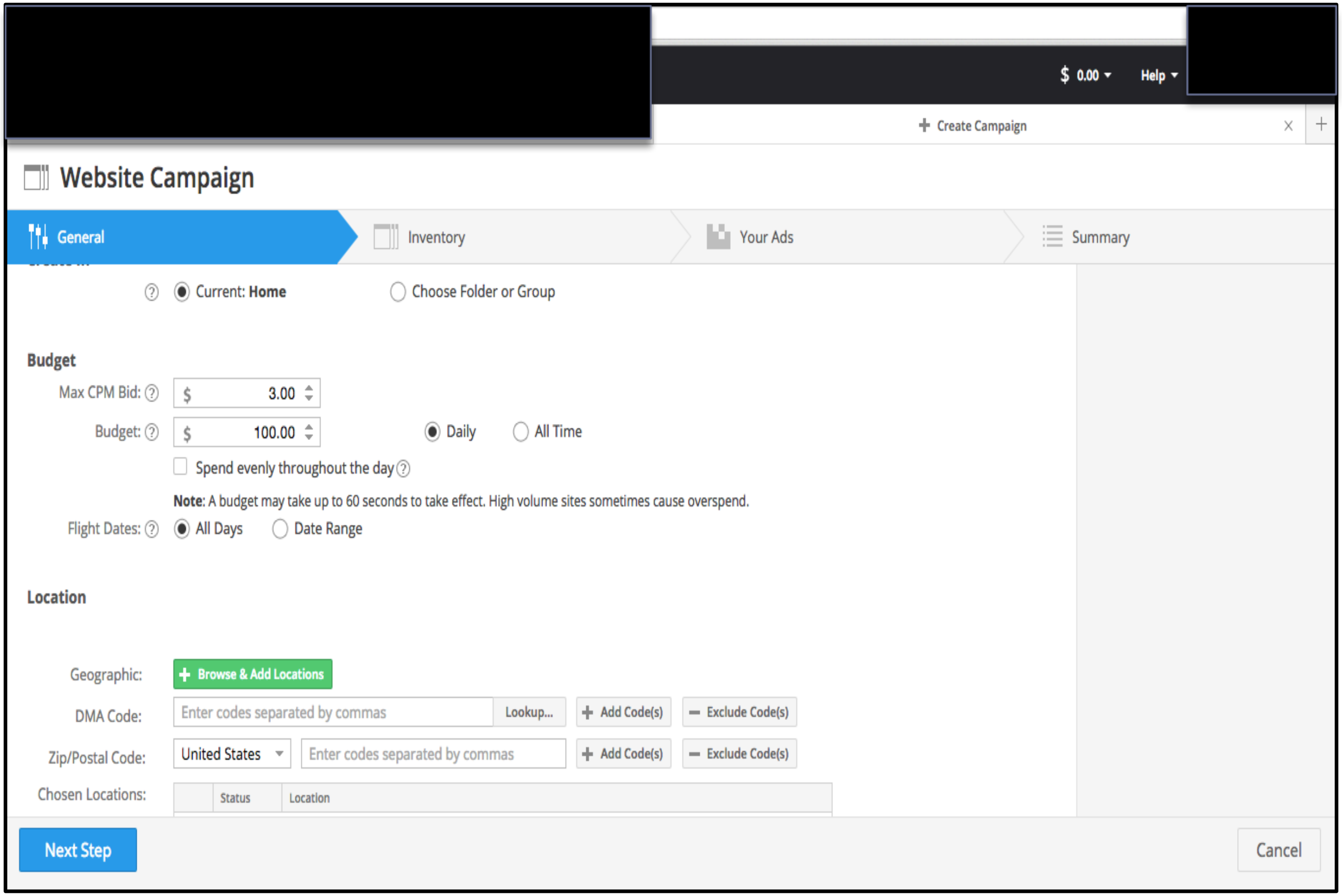
Ad Tech Ecosystem



Ad Tech Ecosystem



Setting up a Campaign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Website Campaign

● Current: **Home** ○ Choose Folder or Group

Budget

Max CPM Bid: $ 3.00

Budget: $ 100.00 ● Daily ○ All Time

□ Spend evenly throughout the day

Note: A budget may take up to 60 seconds to take effect. High volume sites sometimes cause overspend.

Flight Dates: ● All Days ○ Date Range

Location

Geographic:

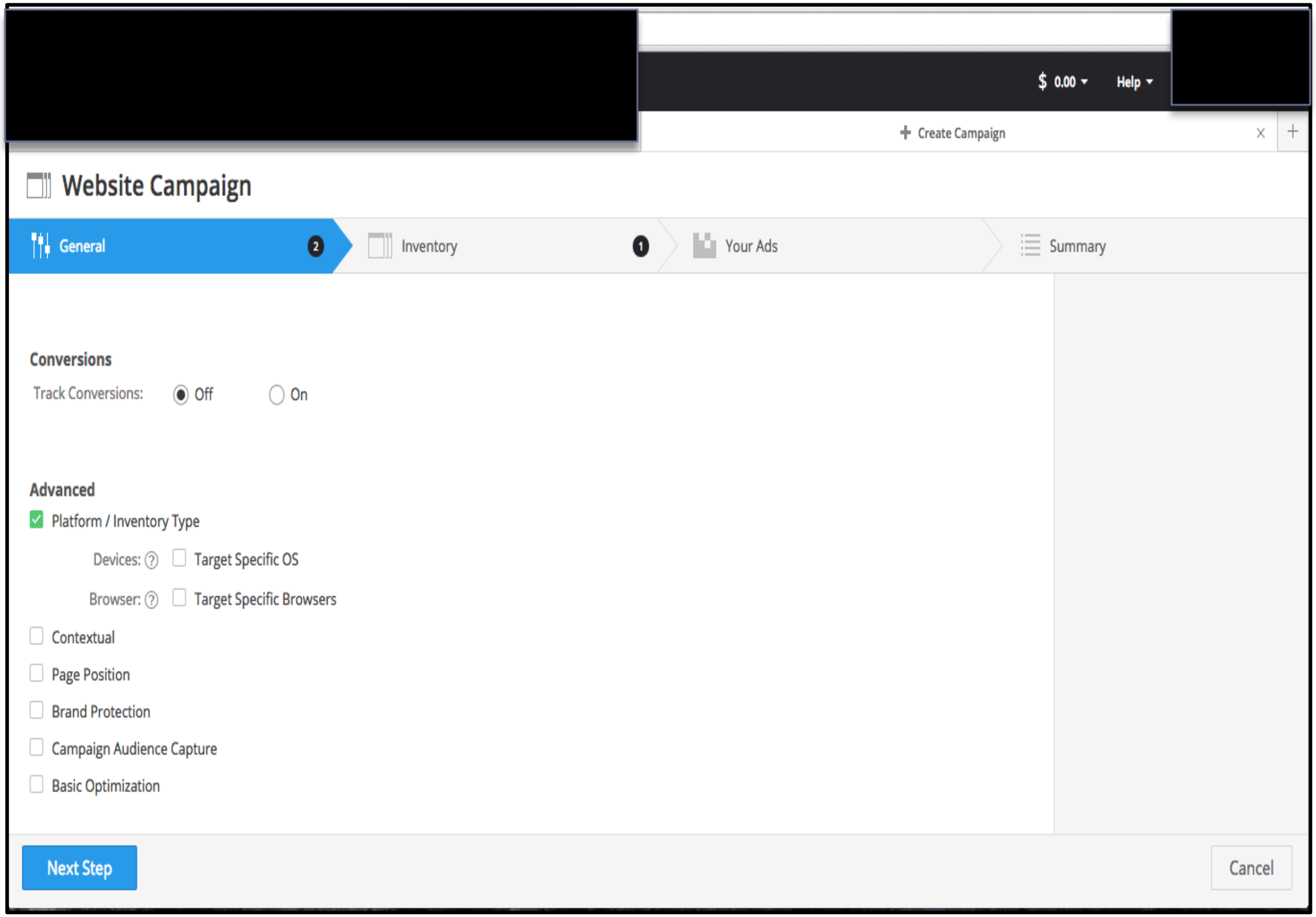
DMA Code: Enter codes separated by commas

Zip/Postal Code: United States Enter codes separated by commas

Chosen Locations:

	Status	Location

Setting up a Campaign - Criteria



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Website Campaign

Conversions

Track Conversions: ● Off ○ On

Advanced

☑ Platform / Inventory Type

Devices: ? □ Target Specific OS

Browser: ? □ Target Specific Browsers

□ Contextual

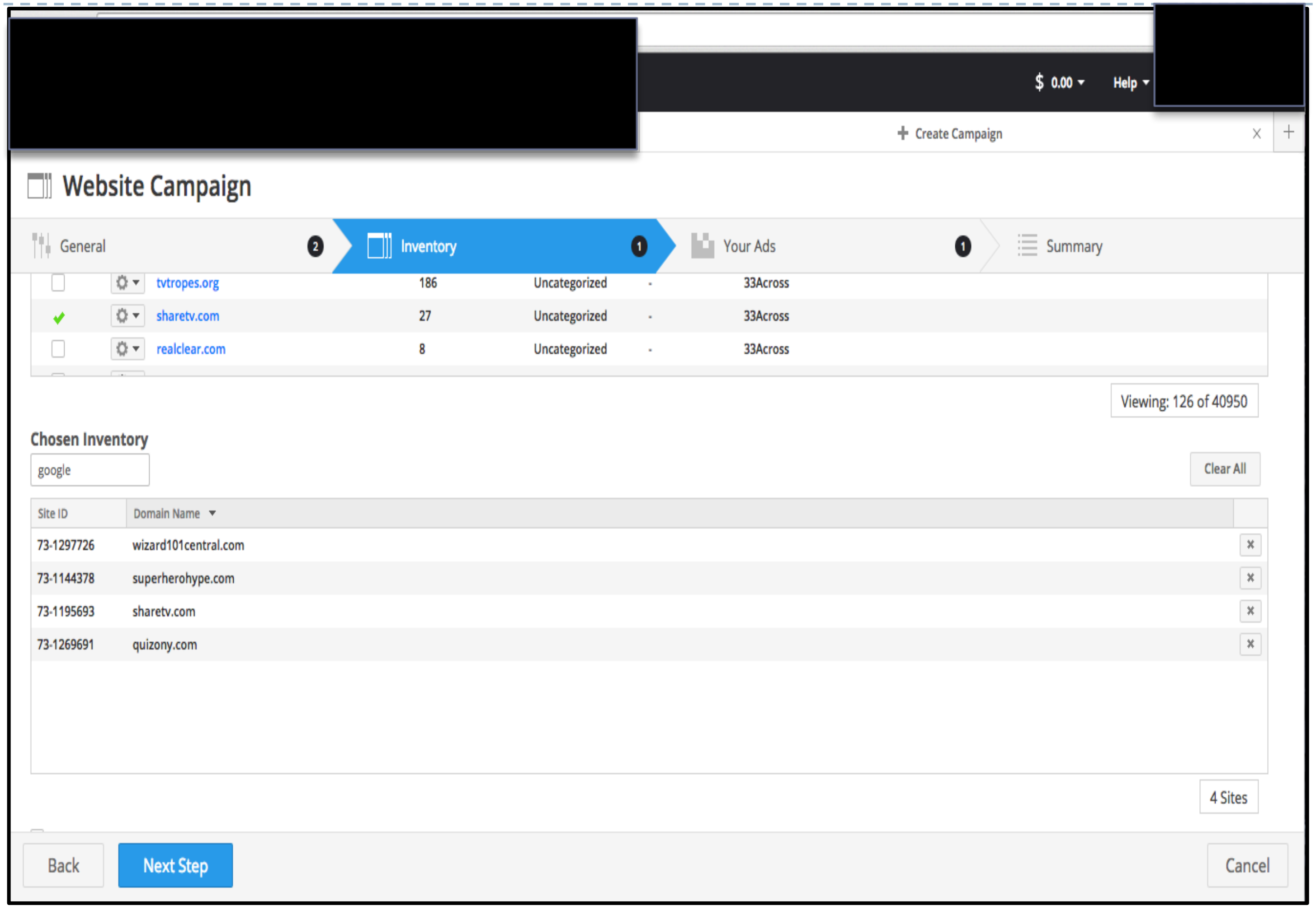
□ Page Position

□ Brand Protection

□ Campaign Audience Capture

□ Basic Optimization

Setting up a Campaign



[redacted]

[redacted]

□	⚙ ▾	tvtropes.org	186	Uncategorized	-	33Across
✓	⚙ ▾	sharetv.com	27	Uncategorized	-	33Across
□	⚙ ▾	realclear.com	8	Uncategorized	-	33Across

Viewing: 126 of 40950

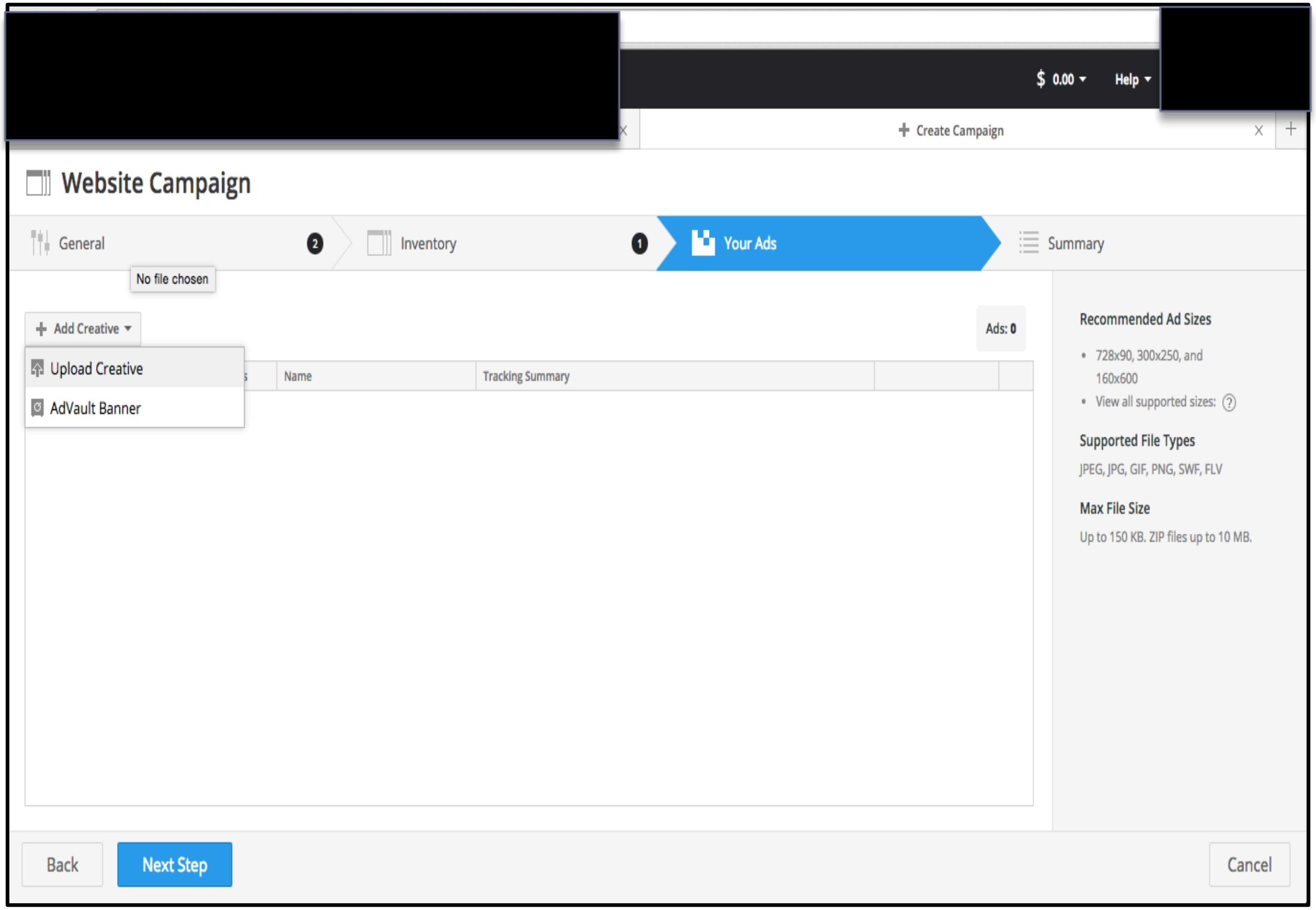
Chosen Inventory

google

Site ID	Domain Name ▾	
73-1297726	wizard101central.com	×
73-1144378	superherohype.com	×
73-1195693	sharetv.com	×
73-1269691	quizony.com	×

4 Sites

Setting up a Campaign – Uploading Creative



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Website Campaign

Recommended Ad Sizes

- 728x90, 300x250, and 160x600
- View all supported sizes: ?

Supported File Types

JPEG, JPG, GIF, PNG, SWF, FLV

Max File Size

Up to 150 KB. ZIP files up to 10 MB.

The Ad Fraud Problem

- Deliberate practice of attempting to serve ads that have no potential to be viewed by a human user
- Lots of varying statistics regarding the extent of the problem.
- Estimates range from 13% to as high as 60% of impressions served online were "suspicious".

Show me the Money!

- Who makes money out of this?
  - Traffic Sellers - The people who sells traffic to publishers.
  - Publishers - The publishers who buys the traffic and get money off the advertisers.

What can we do about it?

Interactive Advertising Bureau

- What is the IAB?
- Released a Ad Fraud Taxonomy

https://www.iab.com/wp-content/uploads/2015/05/IAB_Anti_Fraud_Principles_and_Taxonomy.pdf

IAB Ad Fraud Taxonomy

- Illegitimate and Non-Human Traffic Sources
  - Hijacked device
  - Crawler masquerading as a legitimate user
  - Data-center traffic
- Non-traditional / other traffic
  - Proxy traffic
  - Non-browser User-Agent header
  - Browser pre-rendering
- Hijacked Tags
  - Ad Tag Hijacking
  - Creative Hijacking
- Site Impression Attributes
  - Auto-Refresh
  - Ad Density
  - Hidden Ads
  - Viewability
  - Misappropriated Content
  - Falsely Represented
  - Non Brand Safe
  - Contains Malware
- Ad creative / other
  - Cookie Stuffing

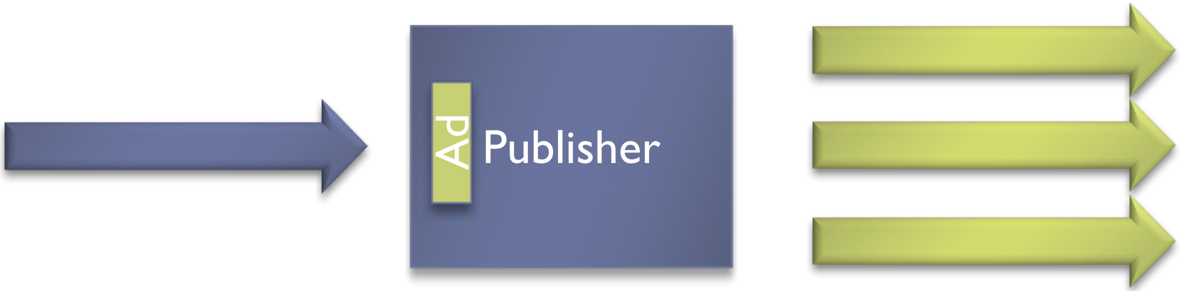
101: What it Really Means

There are basically 3 main types of Ad Fraud:

1. Publisher tricks to Increase Impression Count
2. Illegal or Malicious Content
3. Use of Non Human Traffic to Increase Impressions

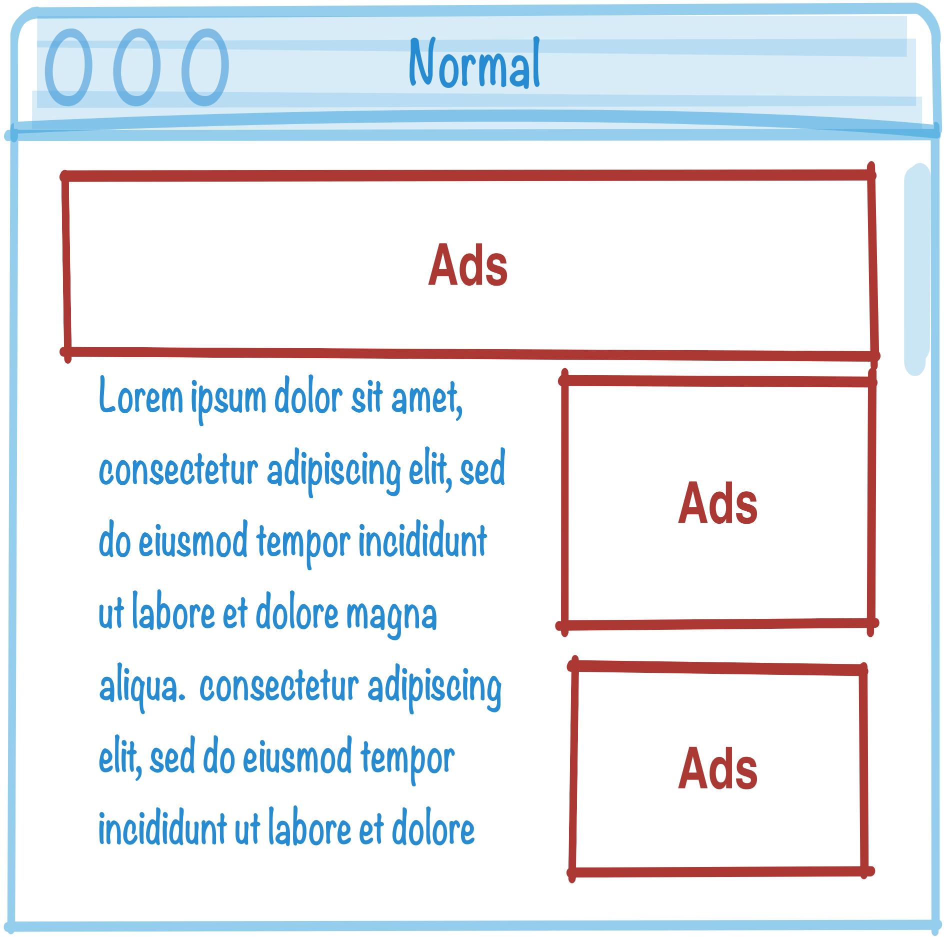
Publisher Tricks to Increase Impression Count

- Various techniques that publishers use to make an Ad impression look like more.
- Some prominent examples are:
  - Hidden Ads
  - Ad Stacking



Publisher Tricks to Increase Impression Count

What the advertiser wants:



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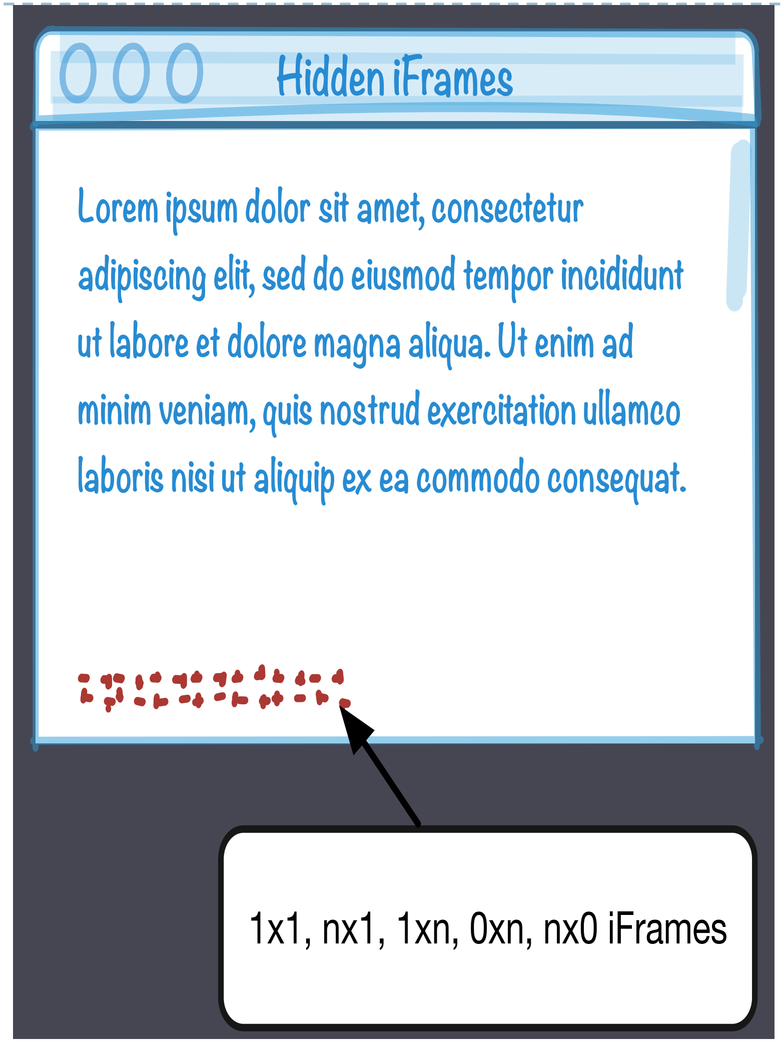
Publisher Tricks to Increase Impression Count

But some publishers will do this (Hidden Ads):



Hidden iFrames

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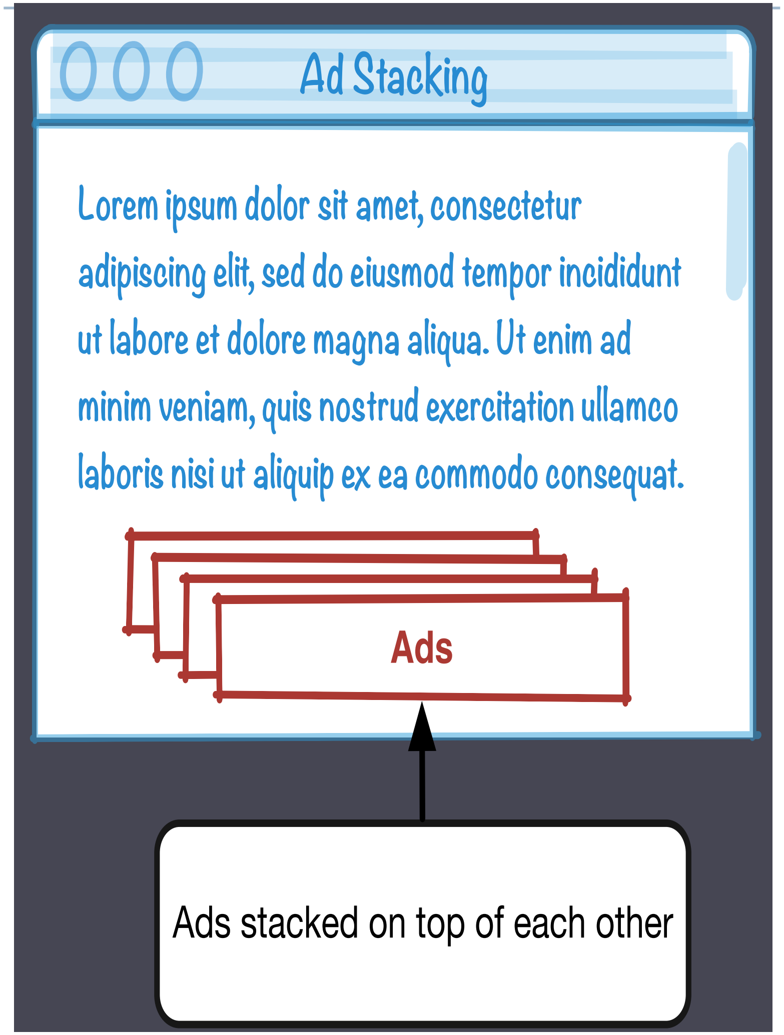
1x1, nx1, 1xn, 0xn, nx0 iFrames

Publisher Tricks to Increase Impression Count

Or this (Ad Stacking):



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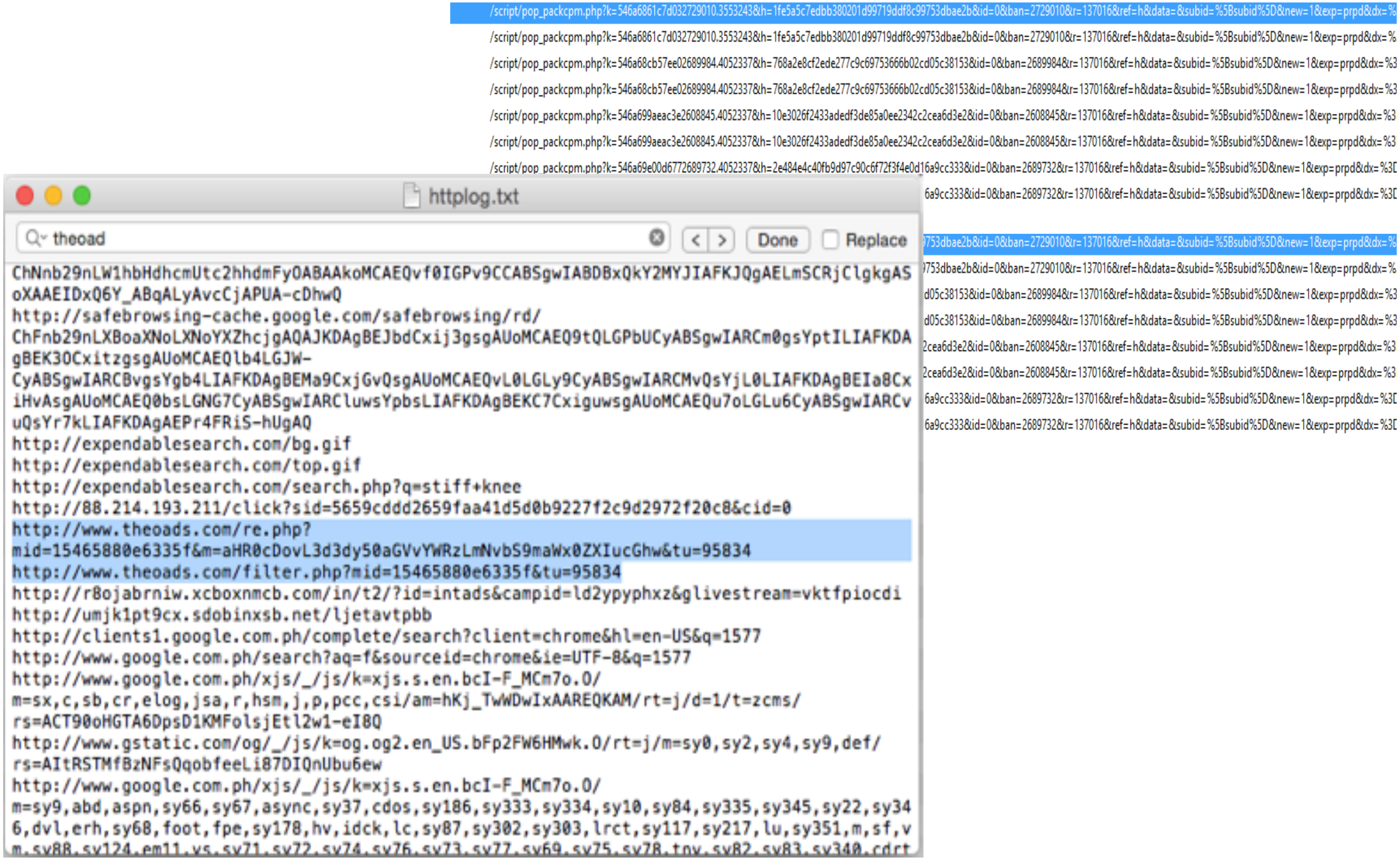
Ads stacked on top of each other

Objectionable or Malicious Content

- Malvertisiting
- Greyware
- Scams
- Objectionable Content

Illegal or Malicious Content



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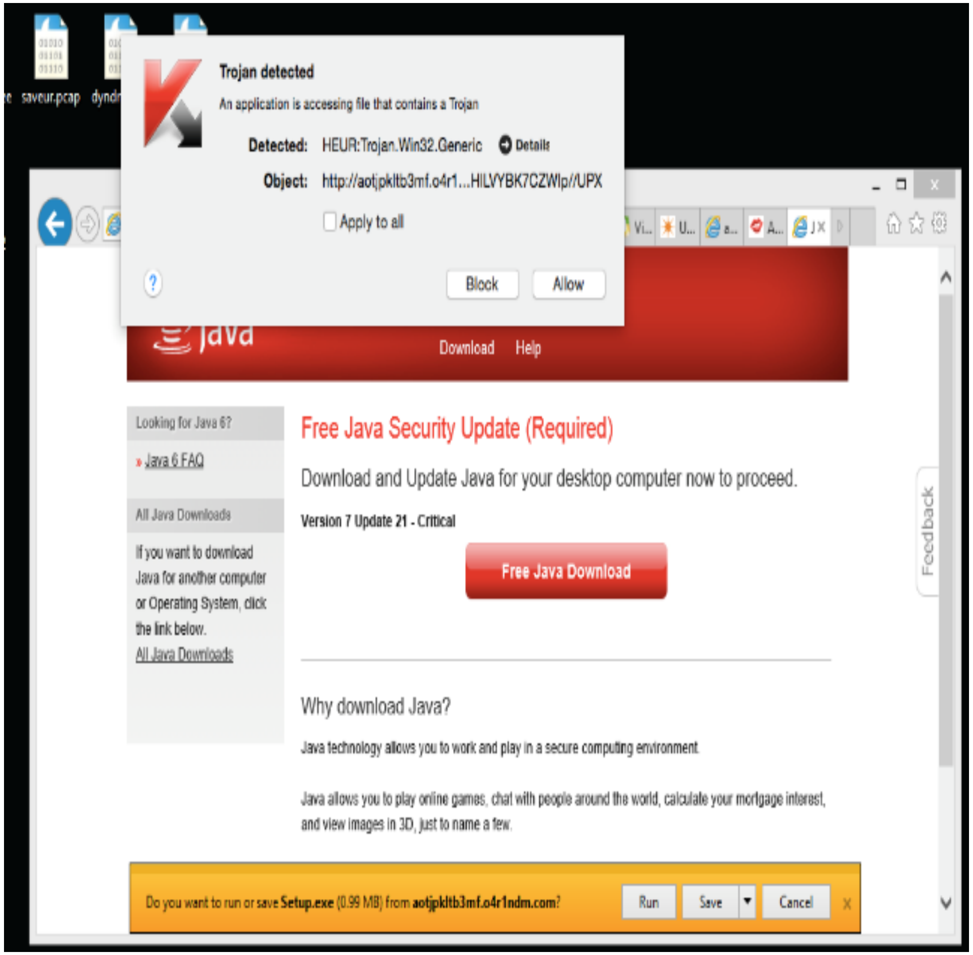
Illegal or Malicious Content



Trojan detected

An application is accessing file that contains a Trojan

Detected: HEUR:Trojan.Win32.Generic

Object: http://aotjpkltb3mf.o4r1...HILVYBK7CZWlp//UPX

☐ Apply to all

Looking for Java 6?

» Java 6 FAQ

All Java Downloads

If you want to download Java for another computer or Operating System, click the link below.

All Java Downloads

Free Java Security Update (Required)

Download and Update Java for your desktop computer now to proceed.

Version 7 Update 21 - Critical

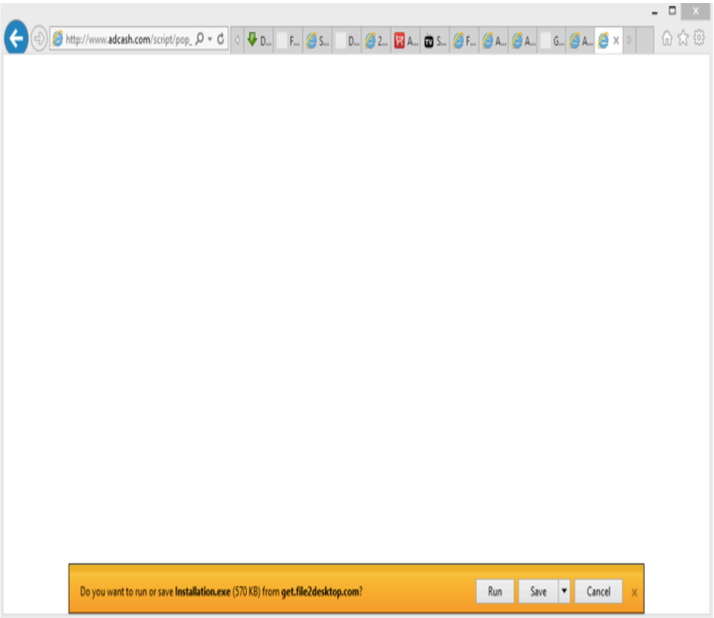
Why download Java?

Java technology allows you to work and play in a secure computing environment.

Java allows you to play online games, chat with people around the world, calculate your mortgage interest, and view images in 3D, just to name a few.

Do you want to run or save **Setup.exe** (0.99 MB) from **aotjpkltb3mf.o4r1ndm.com**?

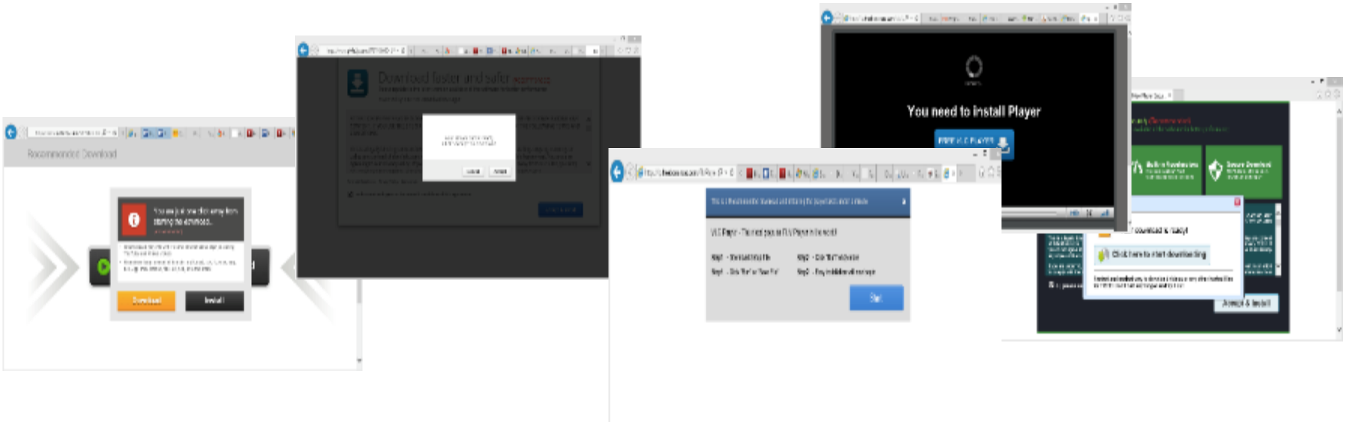
Ad network was serving malware!



http://www.adcash.com/script/pop_

Do you want to run or save **Installation.exe** (570 KB) from **get.file2desktop.com**?

Illegal or Malicious Content



Recommended Download

Download faster and safer

You need to install Player

Click here to start downloading

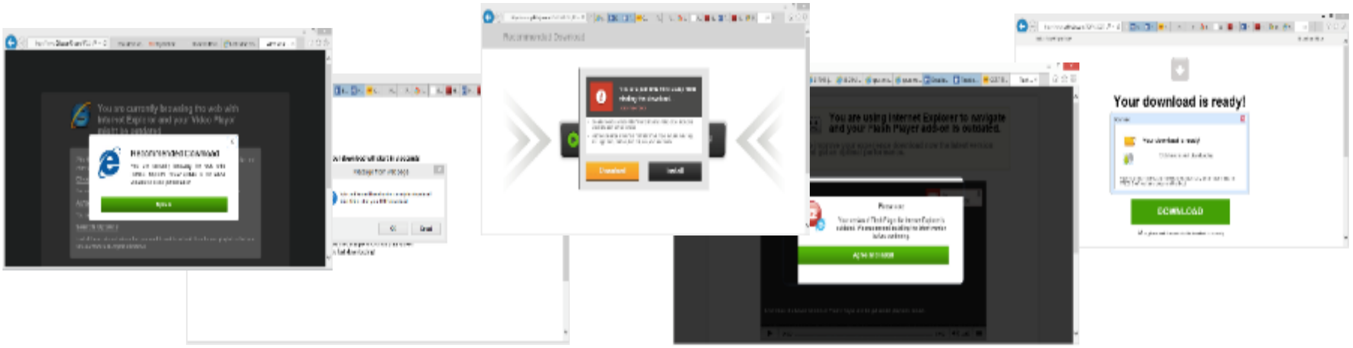
Download

Install

Start

Adware

Ads that will serve you more Ads



Recommended Download

You are using Internet Explorer to navigate and your Flash Player add-on is outdated.

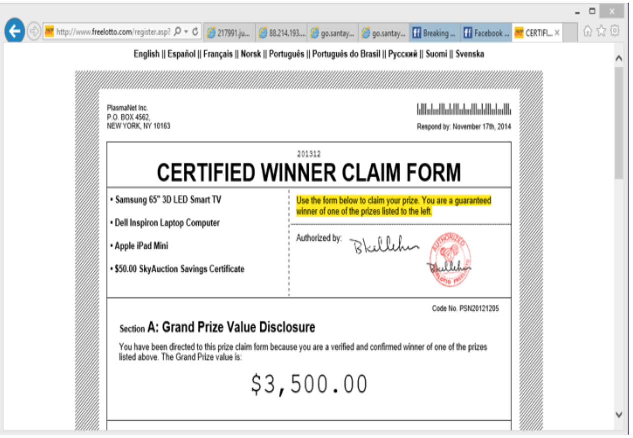
Your download is ready!

DOWNLOAD

Download

Install

Illegal or Malicious Content



English || Español || Français || Norsk || Português || Português do Brasil || Русский || Suomi || Svenska

PlasmaNet Inc.
P.O. BOX 4562,
NEW YORK, NY 10163

Respond by: November 17th, 2014

201312

CERTIFIED WINNER CLAIM FORM

- Samsung 65" 3D LED Smart TV
- Dell Inspiron Laptop Computer
- Apple iPad Mini
- $50.00 SkyAuction Savings Certificate

Use the form below to claim your prize. You are a guaranteed winner of one of the prizes listed to the left.

Authorized by: Bkilleher

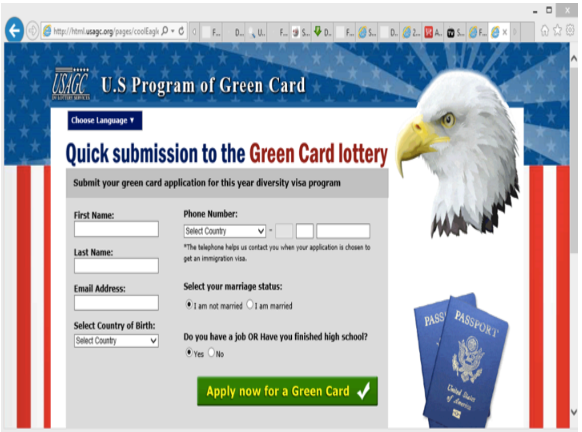
AUTHORIZED FREELOTTO

Code No. PSN20121205

Section A: Grand Prize Value Disclosure

You have been directed to this prize claim form because you are a verified and confirmed winner of one of the prizes listed above. The Grand Prize value is:

$3,500.00



U.S Program of Green Card

Choose Language ▾

Quick submission to the Green Card lottery

Submit your green card application for this year diversity visa program

First Name:

Last Name:

Email Address:

Select Country of Birth: Select Country

Phone Number: Select Country -

*The telephone helps us contact you when your application is chosen to get an immigration visa.

Select your marriage status:

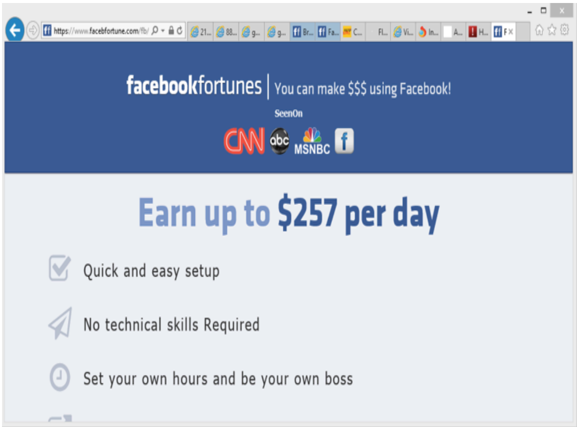
● I am not married ○ I am married

Do you have a job OR Have you finished high school?

● Yes ○ No

Apply now for a Green Card ✓

Scamvertising!



facebookfortunes | You can make $$$ using Facebook!

Earn up to $257 per day

☑ Quick and easy setup

No technical skills Required

Set your own hours and be your own boss

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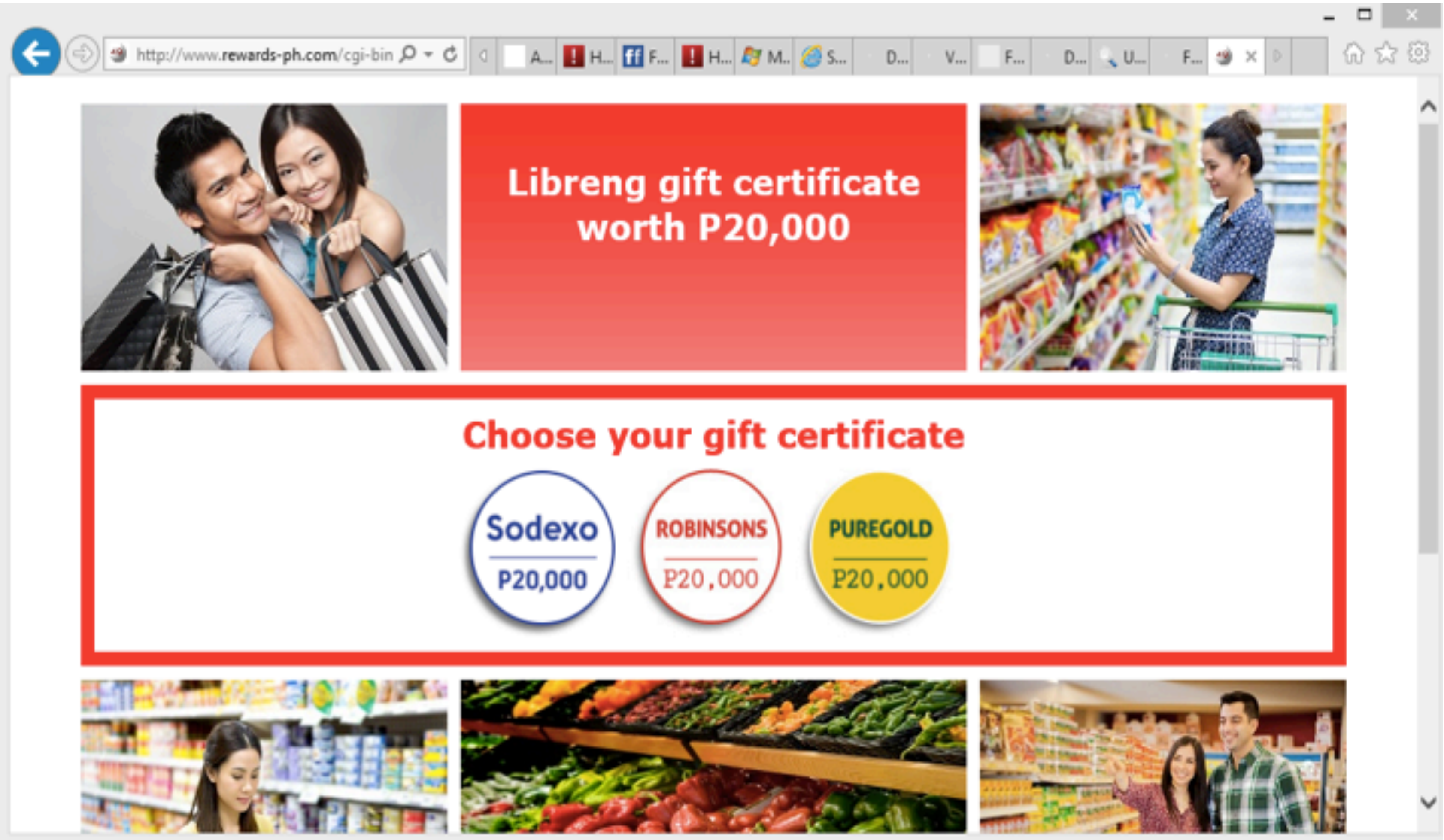


Libreng gift certificate worth P20,000

Choose your gift certificate

Use of Non Human Traffic to Increase Impressions

- Bots. This is probably the most common thing that comes to mind.

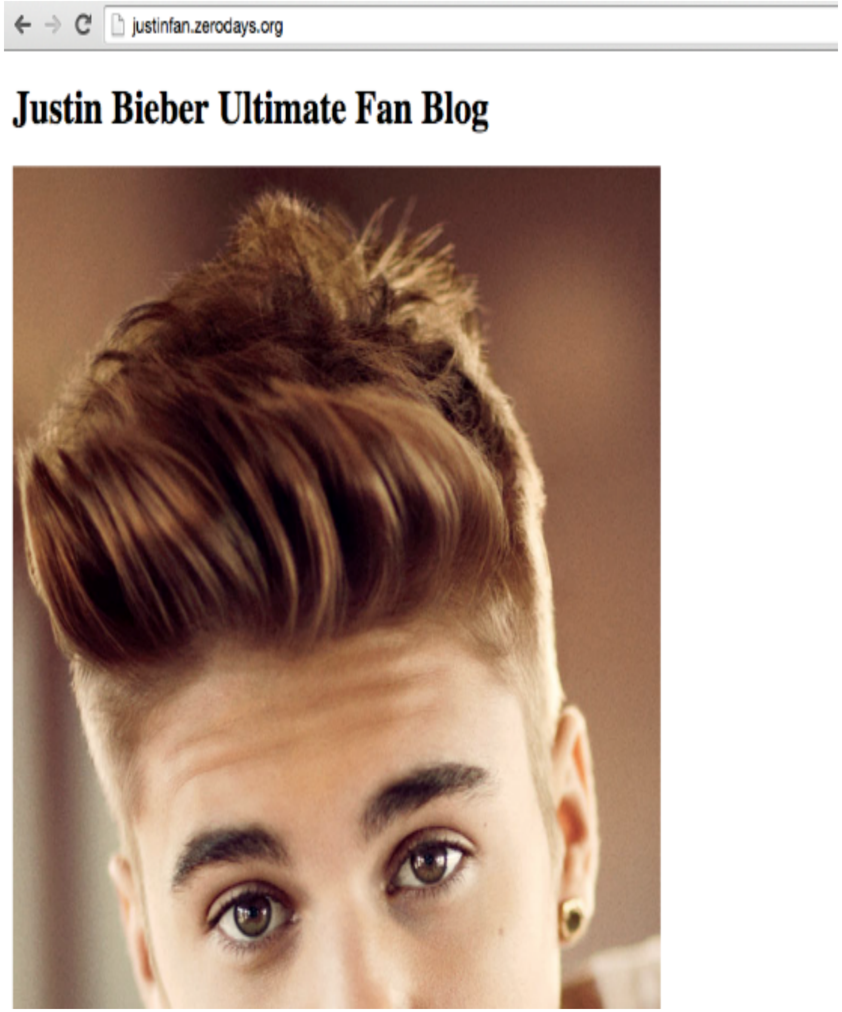
What is the best way to investigate this?

Buying Internet Traffic

What is Purchased Internet Traffic made of?

Can I buy internet traffic and get away with it?

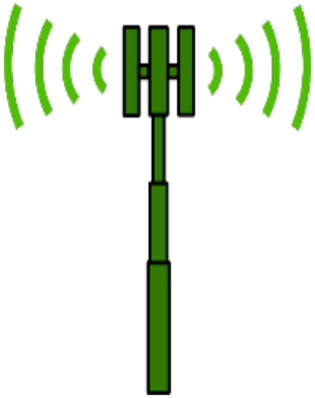
The Bieber Project



justinfan.zerodays.org

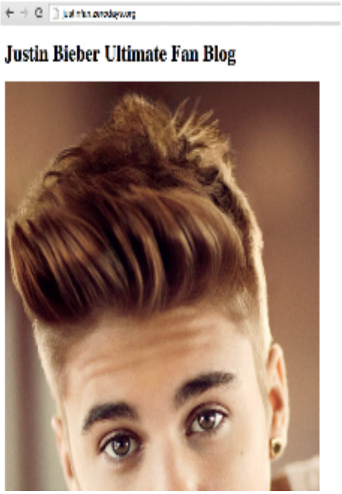
Justin Bieber Ultimate Fan Blog

Honeypot



Collected Information

Bieber with a "Wire"



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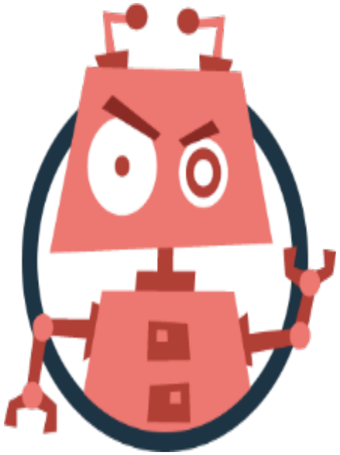
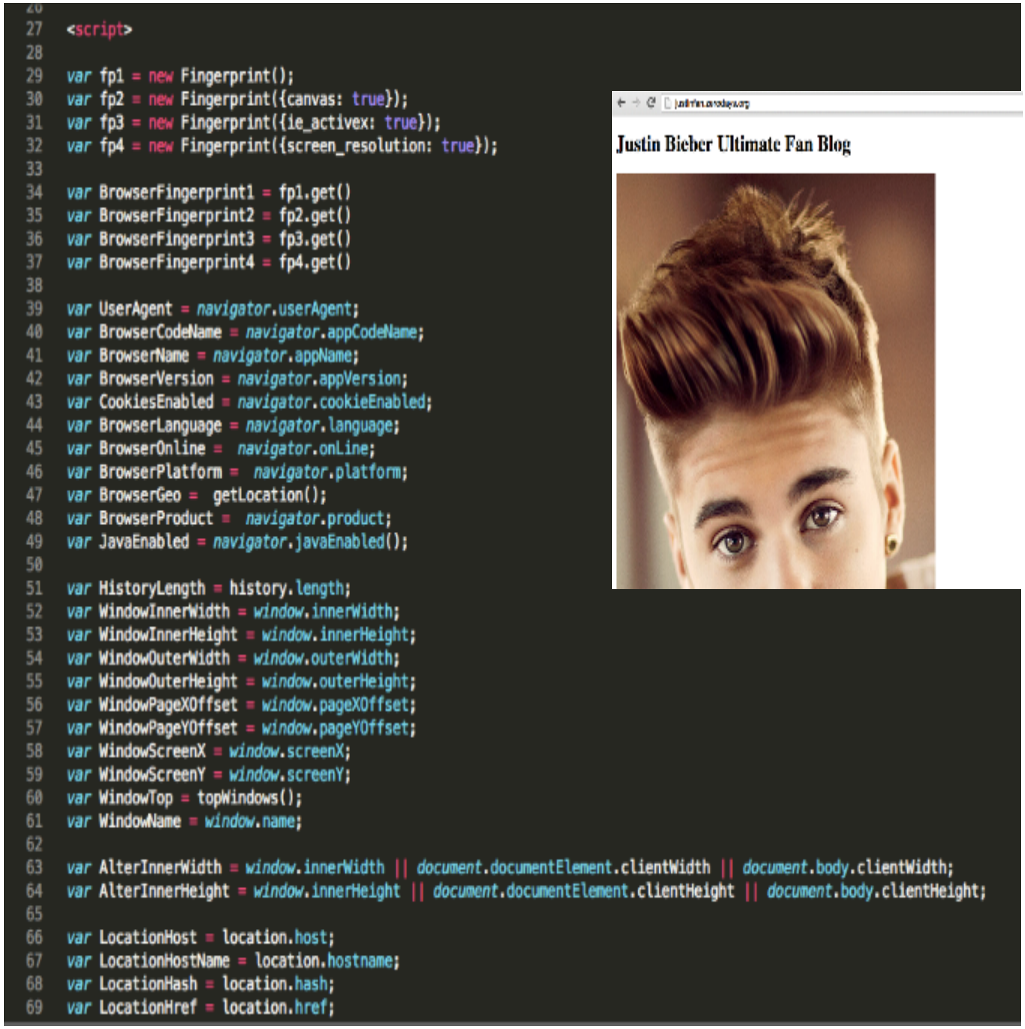
Justin Bieber Ultimate Fan Blog

Fraudulent Impressions?



Bieber with A Wire



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var fp2 = new Fingerprint({canvas: true});
var fp3 = new Fingerprint({ie_activex: true});
var fp4 = new Fingerprint({screen_resolution: true});

var BrowserFingerprint1 = fp1.get()
var BrowserFingerprint2 = fp2.get()
var BrowserFingerprint3 = fp3.get()
var BrowserFingerprint4 = fp4.get()

var UserAgent = navigator.userAgent;
var BrowserCodeName = navigator.appCodeName;
var BrowserName = navigator.appName;
var BrowserVersion = navigator.appVersion;
var CookiesEnabled = navigator.cookieEnabled;
var BrowserLanguage = navigator.language;
var BrowserOnline =  navigator.onLine;
var BrowserPlatform =  navigator.platform;
var BrowserGeo =  getLocation();
var BrowserProduct =  navigator.product;
var JavaEnabled = navigator.javaEnabled();

var HistoryLength = history.length;
var WindowInnerWidth = window.innerWidth;
var WindowInnerHeight = window.innerHeight;
var WindowOuterWidth = window.outerWidth;
var WindowOuterHeight = window.outerHeight;
var WindowPageXOffset = window.pageXOffset;
var WindowPageYOffset = window.pageYOffset;
var WindowScreenX = window.screenX;
var WindowScreenY = window.screenY;
var WindowTop = topWindows();
var WindowName = window.name;

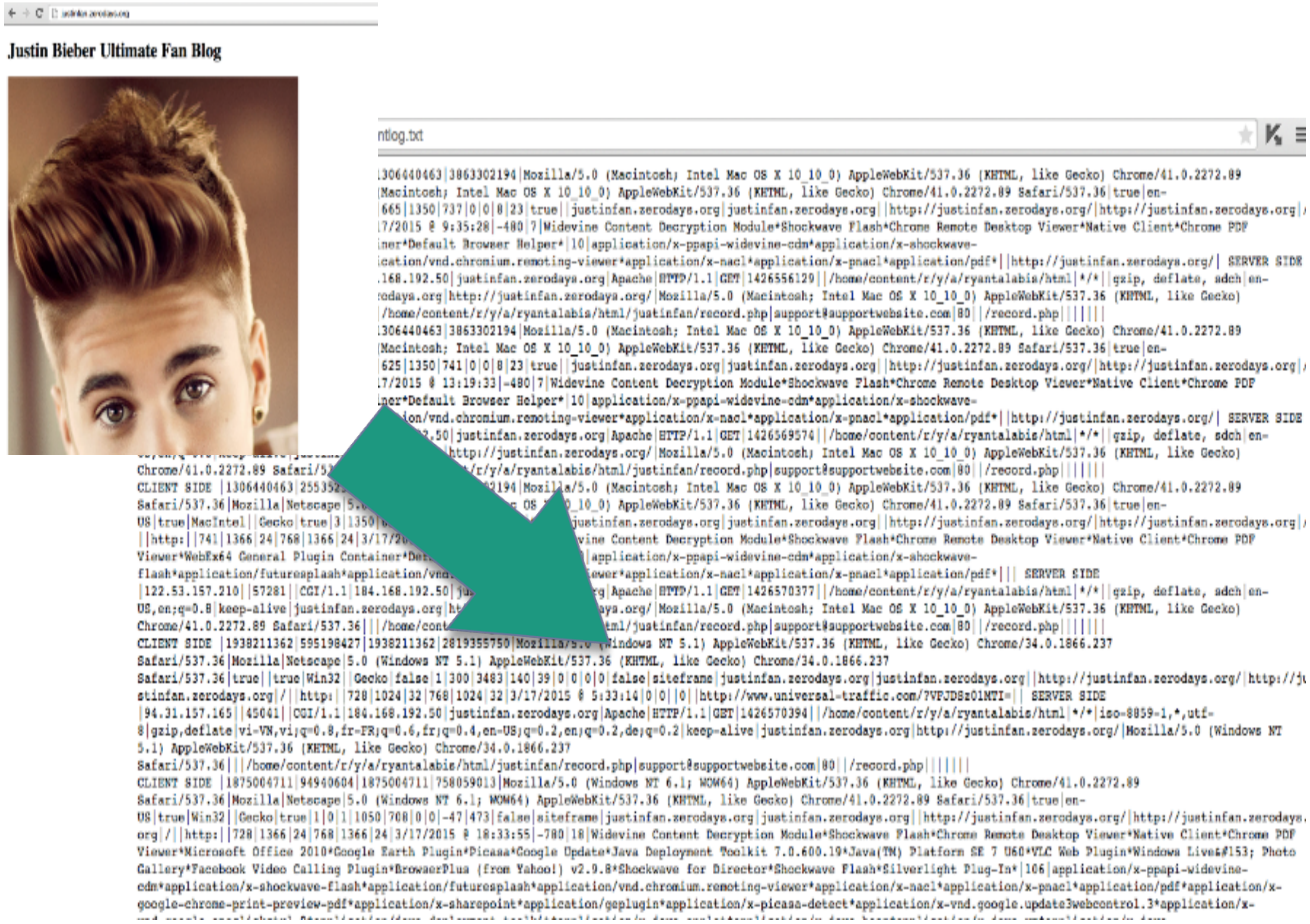
var AlterInnerWidth = window.innerWidth || document.documentElement.clientWidth || document.body.clientWidth;
var AlterInnerHeight = window.innerHeight || document.documentElement.clientHeight || document.body.clientHeight;

var LocationHost = location.host;
var LocationHostName = location.hostname;
var LocationHash = location.hash;
var LocationHref = location.href;
```

justinfan.[illegible]

Justin Bieber Ultimate Fan Blog

Data Stored for Analysis



Justin Bieber Ultimate Fan Blog

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665|1350|737|0|0|8|23|true||justinfan.zerodays.org|justinfan.zerodays.org||http://justinfan.zerodays.org/|http://justinfan.zerodays.org|/
17/2015 @ 9:35:28|-480|7|Widevine Content Decryption Module*Shockwave Flash*Chrome Remote Desktop Viewer*Native Client*Chrome PDF
iner*Default Browser Helper*|10|application/x-ppapi-widevine-cdm*application/x-shockwave-
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625|1350|741|0|0|8|23|true||justinfan.zerodays.org|justinfan.zerodays.org||http://justinfan.zerodays.org/|http://justinfan.zerodays.org|/
17/2015 @ 13:19:33|-480|7|Widevine Content Decryption Module*Shockwave Flash*Chrome Remote Desktop Viewer*Native Client*Chrome PDF
iner*Default Browser Helper*|10|application/x-ppapi-widevine-cdm*application/x-shockwave-
ion/vnd.chromium.remoting-viewer*application/x-nacl*application/x-pnacl*application/pdf*||http://justinfan.zerodays.org/| SERVER SIDE
2.50|justinfan.zerodays.org|Apache|HTTP/1.1|GET|1426569574||/home/content/r/y/a/ryantalabis/html|*/*||gzip, deflate, sdch|en-
http://justinfan.zerodays.org/|Mozilla/5.0 (Macintosh; Intel Mac OS X 10_10_0) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/41.0.2272.89 Safari/53   t/r/y/a/ryantalabis/html/justinfan/record.php|support@supportwebsite.com|80||/record.php||||||
CLIENT SIDE |1306440463|255352   2194|Mozilla/5.0 (Macintosh; Intel Mac OS X 10_10_0) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/41.0.2272.89
Safari/537.36|Mozilla|Netscape|5.   OS X   _10_0) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/41.0.2272.89 Safari/537.36|true|en-
US|true|MacIntel||Gecko|true|3|1350|   justinfan.zerodays.org|justinfan.zerodays.org||http://justinfan.zerodays.org/|http://justinfan.zerodays.org|/
||http:||741|1366|24|768|1366|24|3/17/20   vine Content Decryption Module*Shockwave Flash*Chrome Remote Desktop Viewer*Native Client*Chrome PDF
Viewer*WebEx64 General Plugin Container*De   |application/x-ppapi-widevine-cdm*application/x-shockwave-
flash*application/futuresplash*application/vnd.   iewer*application/x-nacl*application/x-pnacl*application/pdf*||| SERVER SIDE
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Chrome/41.0.2272.89 Safari/537.36|||/home/cont   tml/justinfan/record.php|support@supportwebsite.com|80||/record.php||||||
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Safari/537.36|Mozilla|Netscape|5.0 (Windows NT 6.1; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/41.0.2272.89 Safari/537.36|true|en-
US|true|Win32||Gecko|true|1|0|1|1050|708|0|0|-47|473|false|siteframe|justinfan.zerodays.org|justinfan.zerodays.org||http://justinfan.zerodays.org/|http://justinfan.zerodays.
org|/||http:||728|1366|24|768|1366|24|3/17/2015 @ 18:33:55|-780|18|Widevine Content Decryption Module*Shockwave Flash*Chrome Remote Desktop Viewer*Native Client*Chrome PDF
Viewer*Microsoft Office 2010*Google Earth Plugin*Picasa*Google Update*Java Deployment Toolkit 7.0.600.19*Java(TM) Platform SE 7 U60*VLC Web Plugin*Windows Live&#153; Photo
Gallery*Facebook Video Calling Plugin*BrowserPlus (from Yahoo!) v2.9.8*Shockwave for Director*Shockwave Flash*Silverlight Plug-In*|106|application/x-ppapi-widevine-
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google-chrome-print-preview-pdf*application/x-sharepoint*application/geplugin*application/x-picasa-detect*application/x-vnd.google.update3webcontrol.3*application/x-
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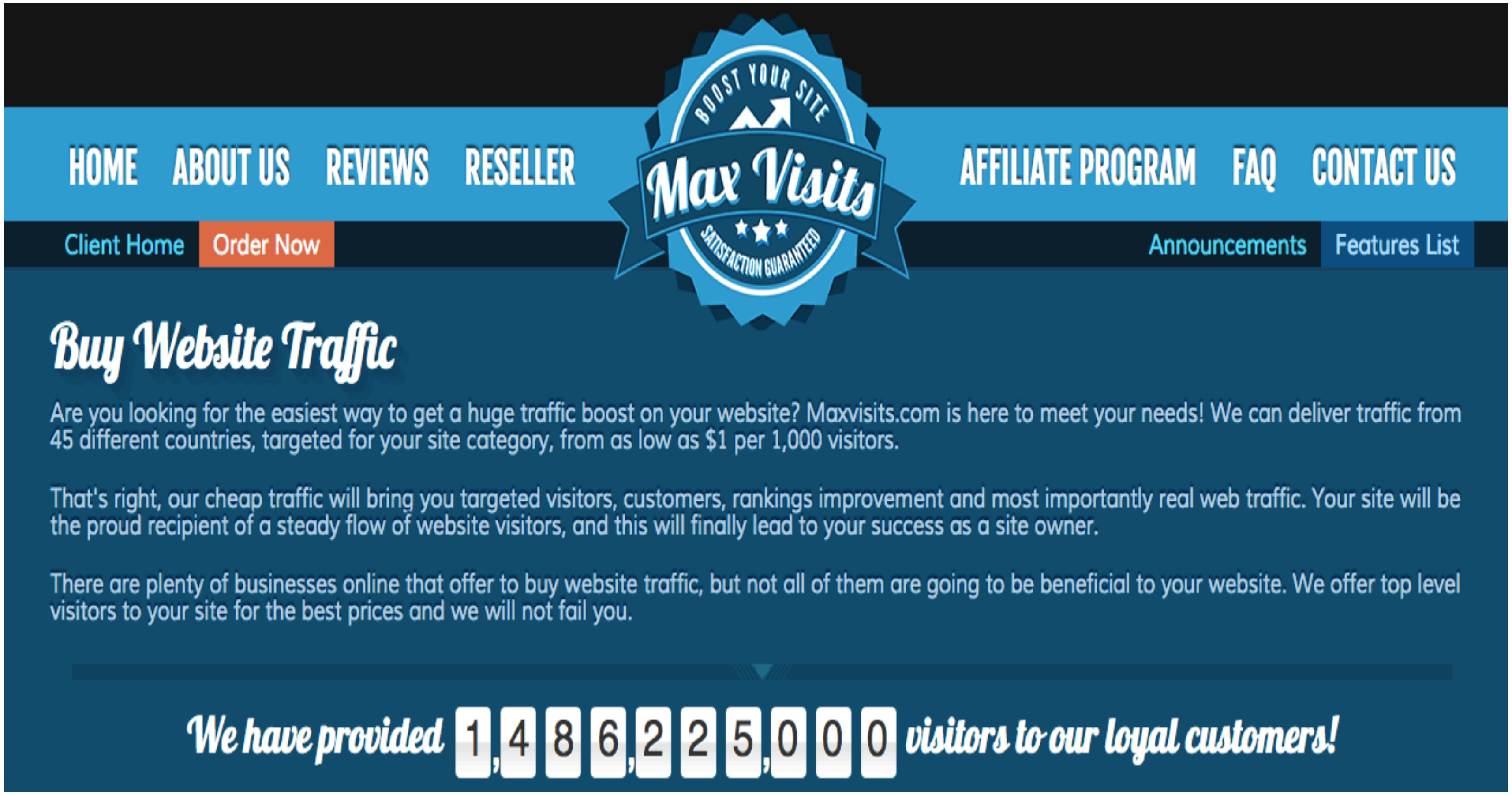
Traffic Vendors



Buy Website Traffic

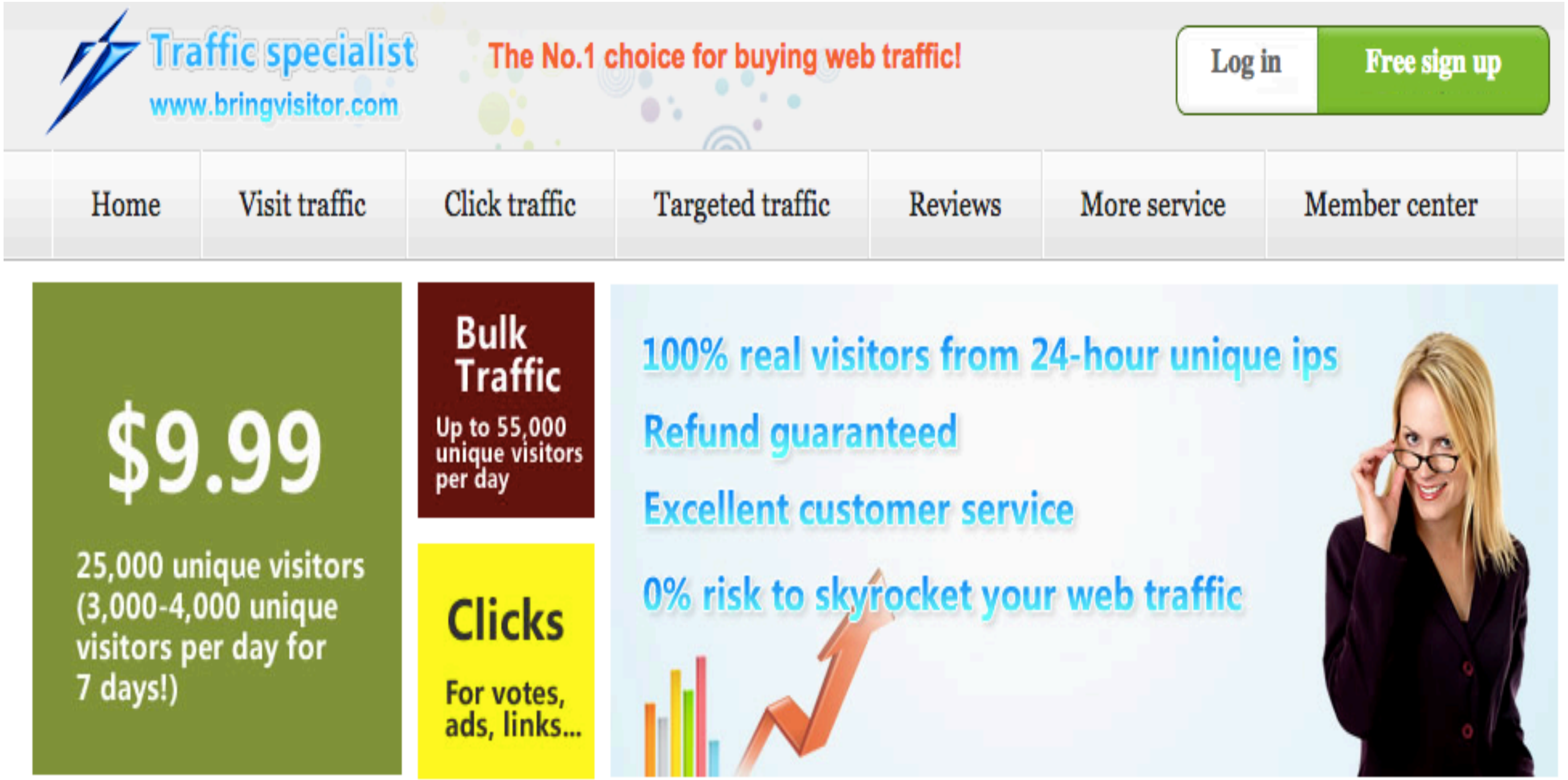
Are you looking for the easiest way to get a huge traffic boost on your website? Maxvisits.com is here to meet your needs! We can deliver traffic from 45 different countries, targeted for your site category, from as low as $1 per 1,000 visitors.

That's right, our cheap traffic will bring you targeted visitors, customers, rankings improvement and most importantly real web traffic. Your site will be the proud recipient of a steady flow of website visitors, and this will finally lead to your success as a site owner.

There are plenty of businesses online that offer to buy website traffic, but not all of them are going to be beneficial to your website. We offer top level visitors to your site for the best prices and we will not fail you.

We have provided 1,486,225,000 visitors to our loyal customers!

Traffic Vendors



Traffic specialist
www.bringvisitor.com

The No.1 choice for buying web traffic!

$9.99

25,000 unique visitors (3,000-4,000 unique visitors per day for 7 days!)

Bulk Traffic

Up to 55,000 unique visitors per day

Clicks

For votes, ads, links...

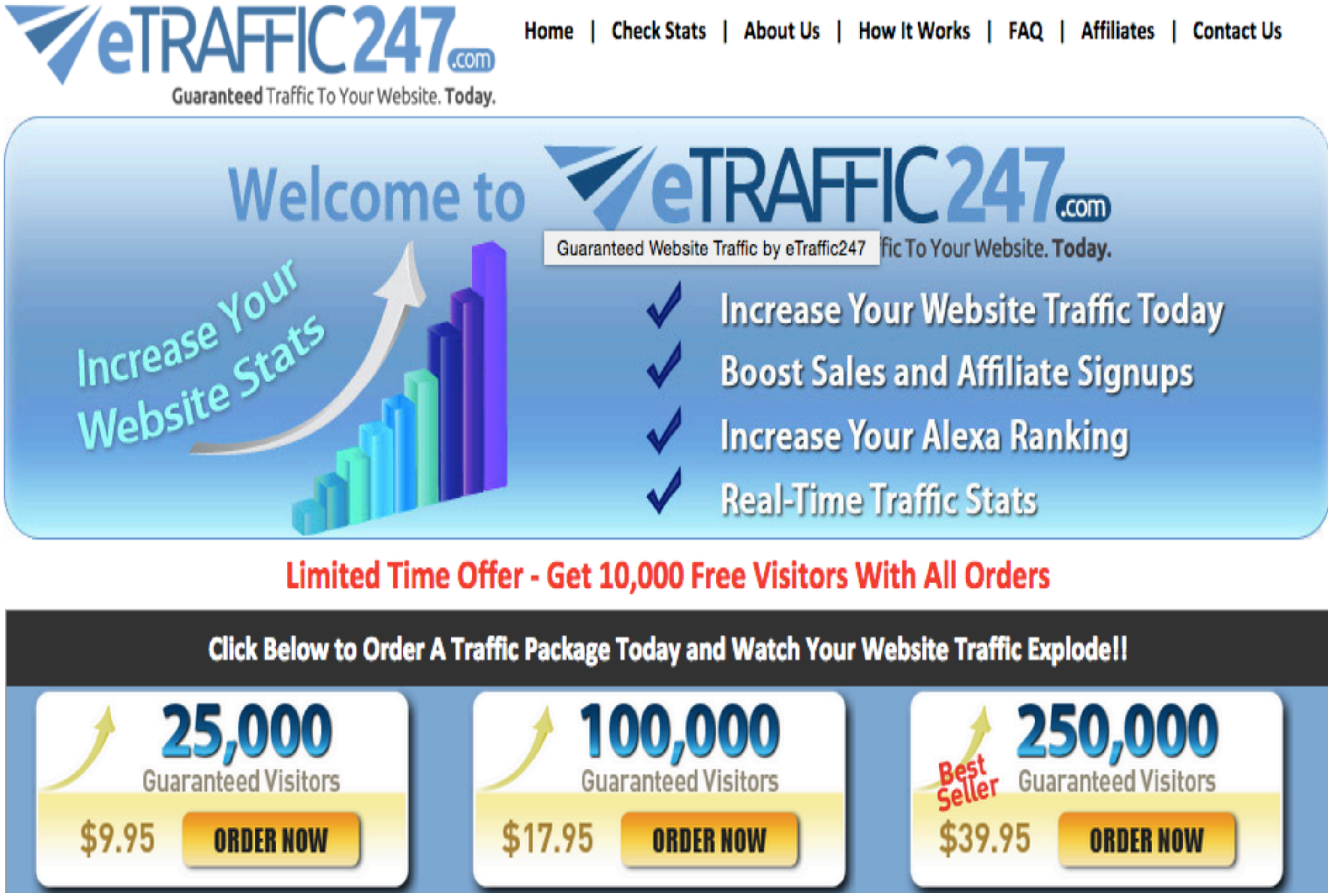
100% real visitors from 24-hour unique ips

Refund guaranteed

Excellent customer service

0% risk to skyrocket your web traffic

Traffic Vendors


eTRAFFIC247.com
Guaranteed Traffic To Your Website. Today.
Home | Check Stats | About Us | How It Works | FAQ | Affiliates | Contact Us
Welcome to eTRAFFIC247.com
Guaranteed Website Traffic by eTraffic247
fic To Your Website. Today.
Increase Your Website Stats

✓ Increase Your Website Traffic Today

✓ Boost Sales and Affiliate Signups

✓ Increase Your Alexa Ranking

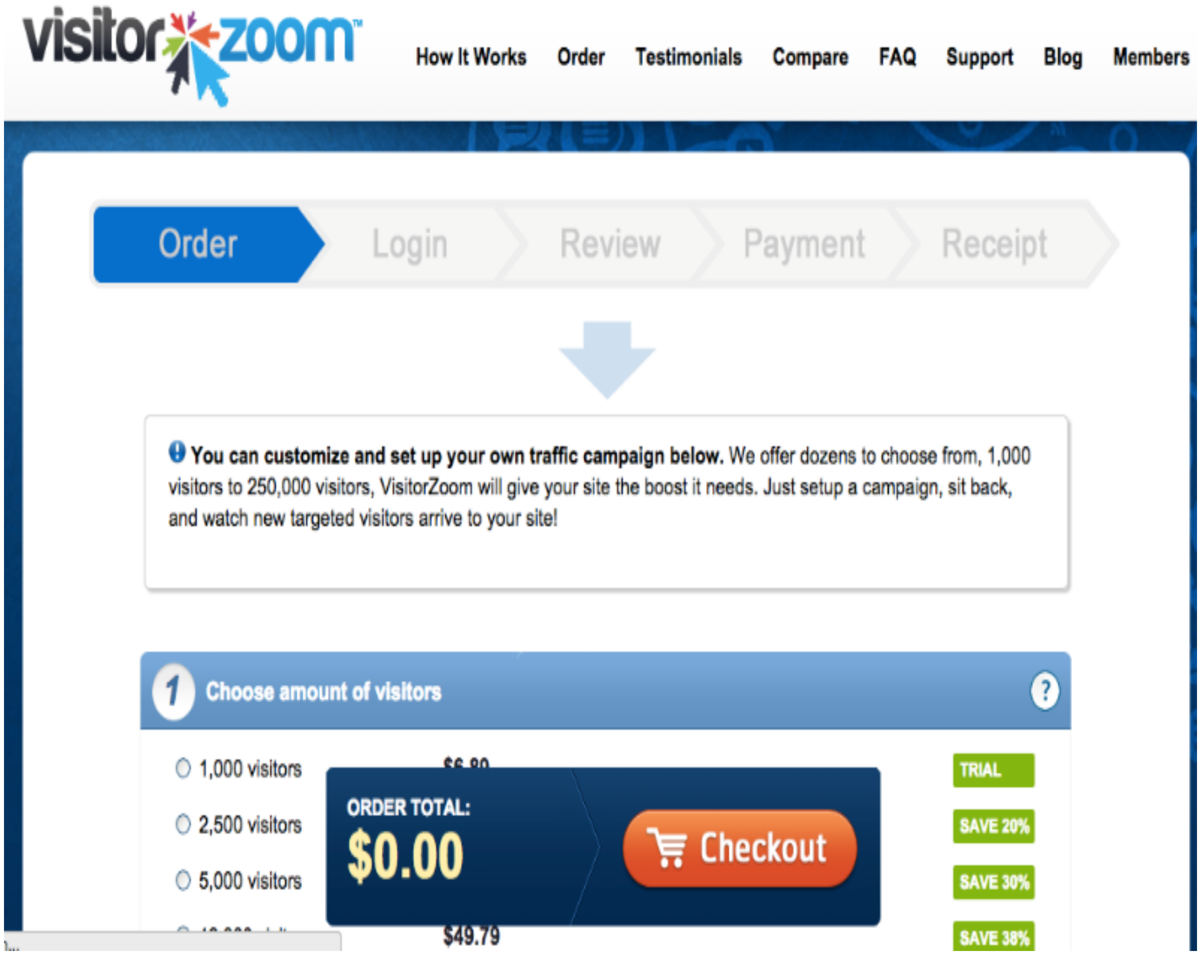
✓ Real-Time Traffic Stats

Limited Time Offer - Get 10,000 Free Visitors With All Orders

Click Below to Order A Traffic Package Today and Watch Your Website Traffic Explode!!

25,000 Guaranteed Visitors $9.95 ORDER NOW	100,000 Guaranteed Visitors $17.95 ORDER NOW	Best Seller 250,000 Guaranteed Visitors $39.95 ORDER NOW

Traffic Vendors



You can customize and set up your own traffic campaign below. We offer dozens to choose from, 1,000 visitors to 250,000 visitors, VisitorZoom will give your site the boost it needs. Just setup a campaign, sit back, and watch new targeted visitors arrive to your site!

1 Choose amount of visitors

○ 1,000 visitors $6.90 TRIAL

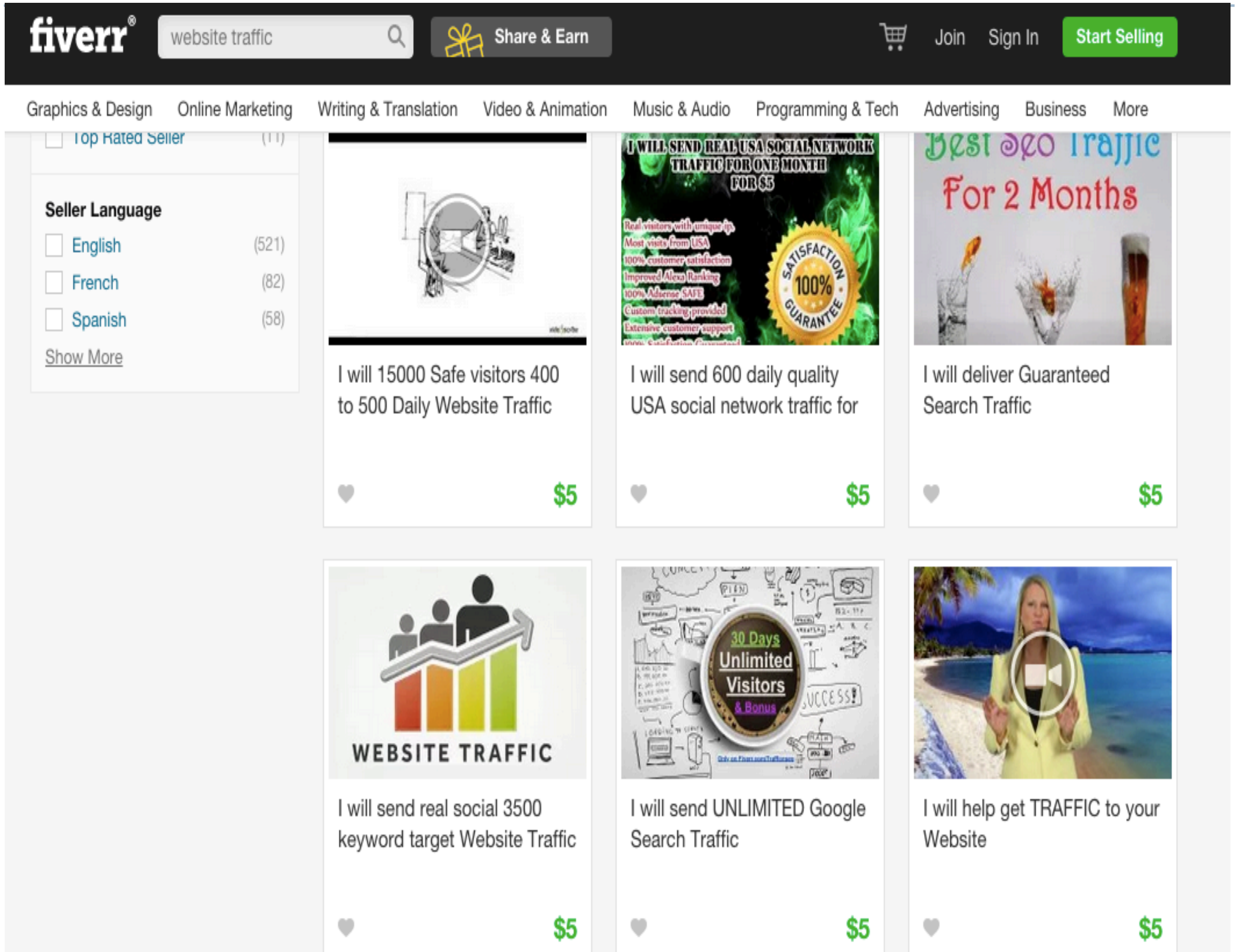
○ 2,500 visitors SAVE 20%

○ 5,000 visitors SAVE 30%

$49.79 SAVE 38%

ORDER TOTAL: $0.00

Traffic Market Places



fiverr® | website traffic | Share & Earn | Join | Sign In | Start Selling

Graphics & Design | Online Marketing | Writing & Translation | Video & Animation | Music & Audio | Programming & Tech | Advertising | Business | More

□ Top Rated Seller (11)

Seller Language

- □ English (521)
- □ French (82)
- □ Spanish (58)

Show More

I will 15000 Safe visitors 400 to 500 Daily Website Traffic $5

I will send 600 daily quality USA social network traffic for $5

I will deliver Guaranteed Search Traffic $5

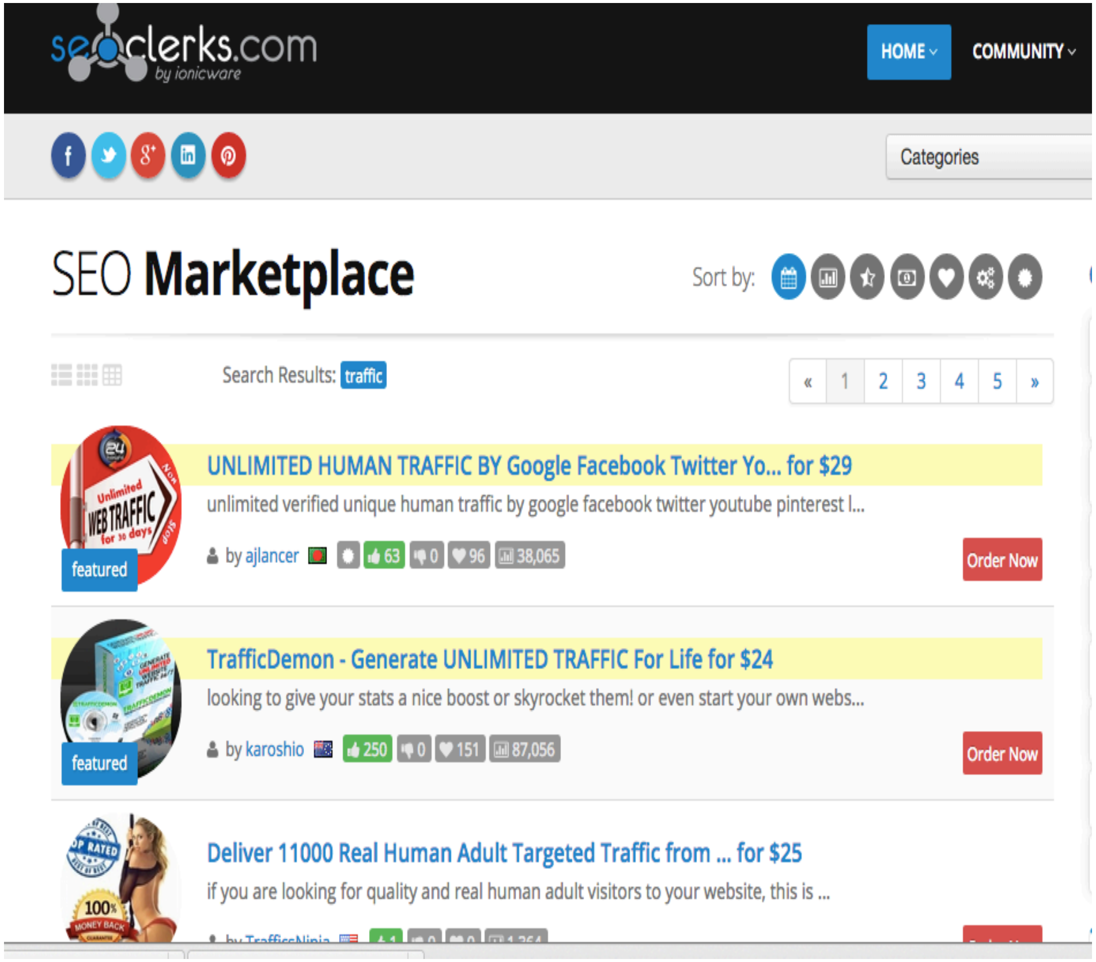
I will send real social 3500 keyword target Website Traffic $5

I will send UNLIMITED Google Search Traffic $5

I will help get TRAFFIC to your Website $5

I WILL SEND REAL USA SOCIAL NETWORK TRAFFIC FOR ONE MONTH FOR $5
Real visitors with unique ip
Most visits from USA
100% customer satisfaction
Improved Alexa Ranking
100% Adsense SAFE
Custom tracking provided
Extensive customer support
SATISFACTION 100% GUARANTEE
Best Seo Traffic For 2 Months
WEBSITE TRAFFIC
30 Days Unlimited Visitors & Bonus
SUCCESS!

Traffic Market Places



SEO **Marketplace**

Search Results: traffic

UNLIMITED HUMAN TRAFFIC BY Google Facebook Twitter Yo... for $29

unlimited verified unique human traffic by google facebook twitter youtube pinterest l...

by ajlancer 63 0 96 38,065

TrafficDemon - Generate UNLIMITED TRAFFIC For Life for $24

looking to give your stats a nice boost or skyrocket them! or even start your own webs...

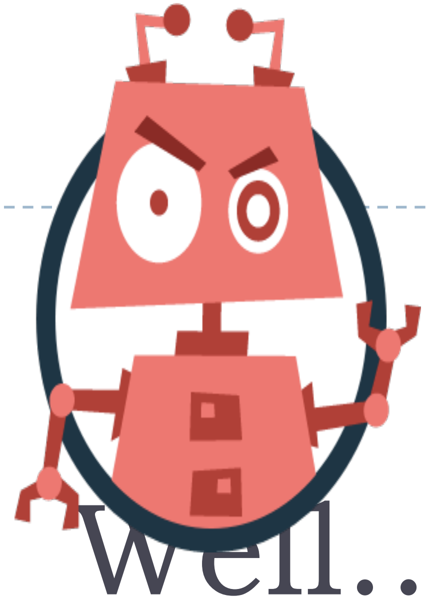
by karoshio 250 0 151 87,056

Deliver 11000 Real Human Adult Targeted Traffic from ... for $25

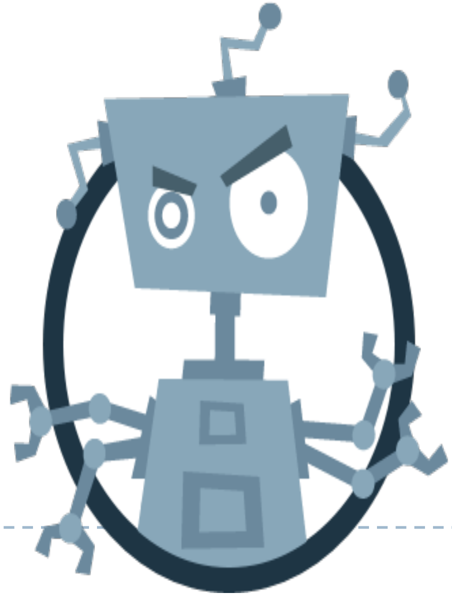
if you are looking for quality and real human adult visitors to your website, this is ...

by TrafficsNinja 1 0 0 1,364

What is Purchased Internet Traffic Made Of?



Well… obviously **BOTS!**



How do we know?

Clues are in the Impression…

There are Lots of Clues…

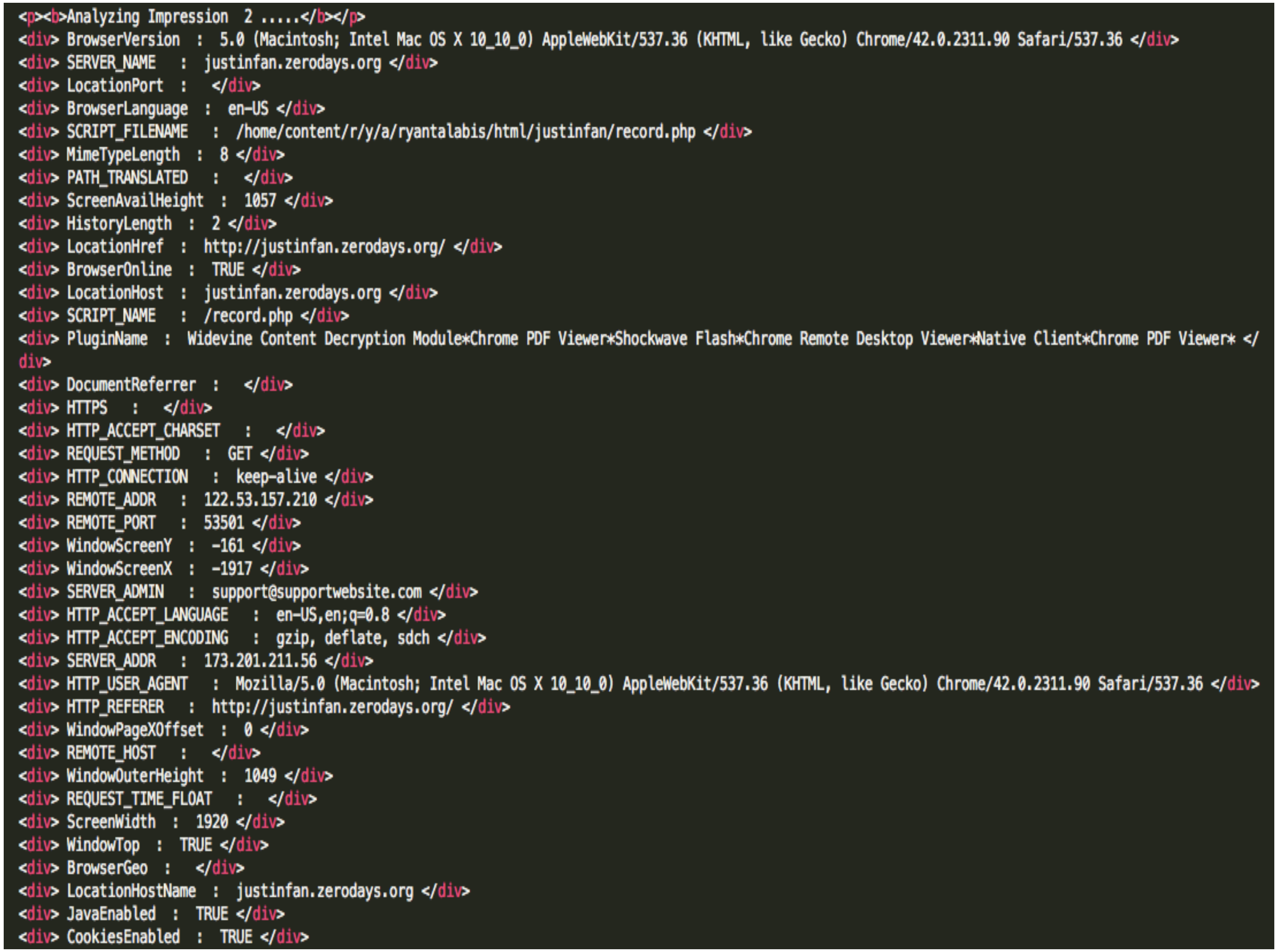
A browser can provide a lot of clues…

Look for suspicious information…

- Plugins
- Mime Types
- Screen Attributes
- Window Attributes
- Product identifiers
- Navigator Attributes
- Location Attributes

- Frame Rates
- Browser Rendering Attributes
- User Agents
- JavaScript Enabled
- Cookies Enables
- And many more…

Clues



```
<p><b>Analyzing Impression  2 .....</b></p>
<div> BrowserVersion  :  5.0 (Macintosh; Intel Mac OS X 10_10_0) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/42.0.2311.90 Safari/537.36 </div>
<div> SERVER_NAME   :  justinfan.zerodays.org </div>
<div> LocationPort  :   </div>
<div> BrowserLanguage  :  en-US </div>
<div> SCRIPT_FILENAME   :  /home/content/r/y/a/ryantalabis/html/justinfan/record.php </div>
<div> MimeTypeLength  :  8 </div>
<div> PATH_TRANSLATED   :   </div>
<div> ScreenAvailHeight  :  1057 </div>
<div> HistoryLength  :  2 </div>
<div> LocationHref  :  http://justinfan.zerodays.org/ </div>
<div> BrowserOnline  :  TRUE </div>
<div> LocationHost  :  justinfan.zerodays.org </div>
<div> SCRIPT_NAME   :  /record.php </div>
<div> PluginName  :  Widevine Content Decryption Module*Chrome PDF Viewer*Shockwave Flash*Chrome Remote Desktop Viewer*Native Client*Chrome PDF Viewer* </
div>
<div> DocumentReferrer  :   </div>
<div> HTTPS   :   </div>
<div> HTTP_ACCEPT_CHARSET   :   </div>
<div> REQUEST_METHOD   :  GET </div>
<div> HTTP_CONNECTION   :  keep-alive </div>
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<div> HTTP_ACCEPT_ENCODING   :  gzip, deflate, sdch </div>
<div> SERVER_ADDR   :  173.201.211.56 </div>
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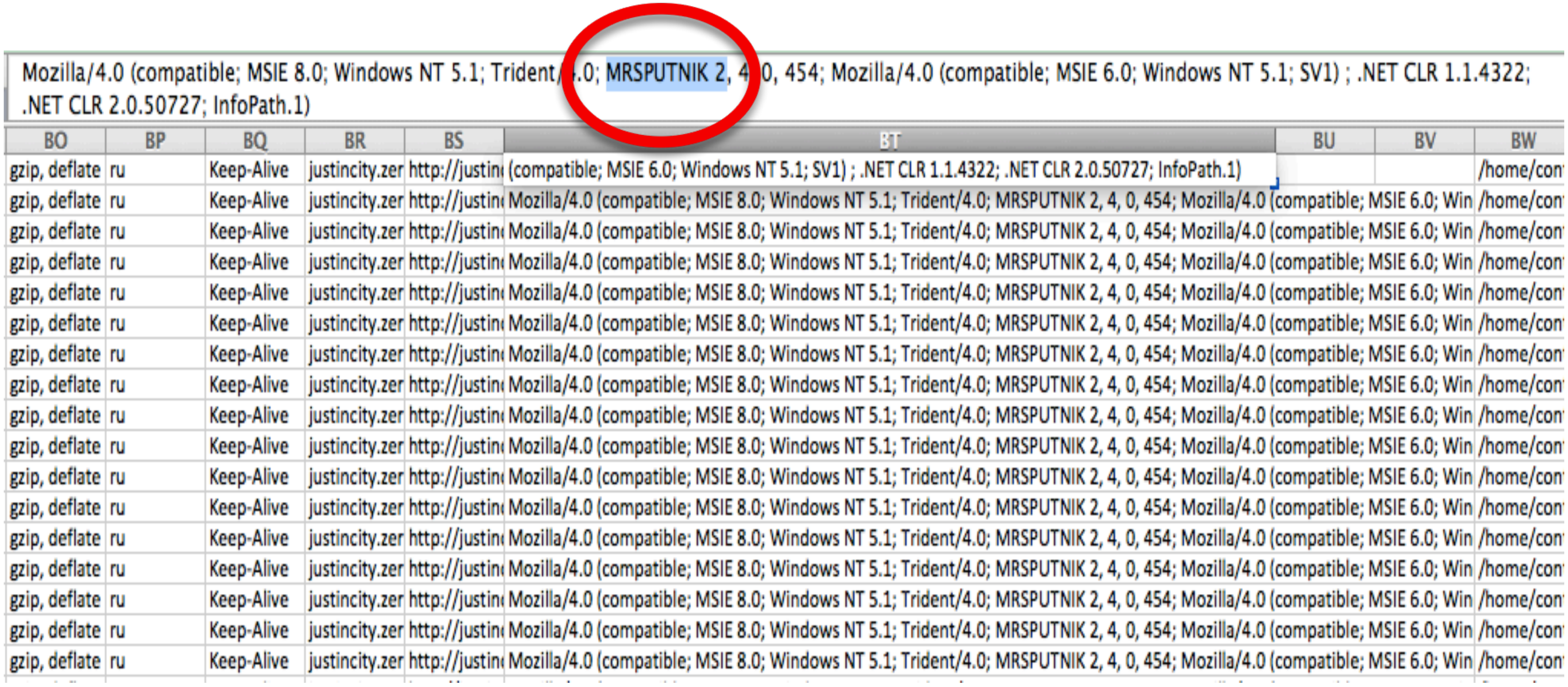
<div> REQUEST_TIME_FLOAT   :   </div>
<div> ScreenWidth  :  1920 </div>
<div> WindowTop  :  TRUE </div>
<div> BrowserGeo  :   </div>
<div> LocationHostName  :  justinfan.zerodays.org </div>
<div> JavaEnabled  :  TRUE </div>
<div> CookiesEnabled  :  TRUE </div>
```

Clues

Some clues are obvious…



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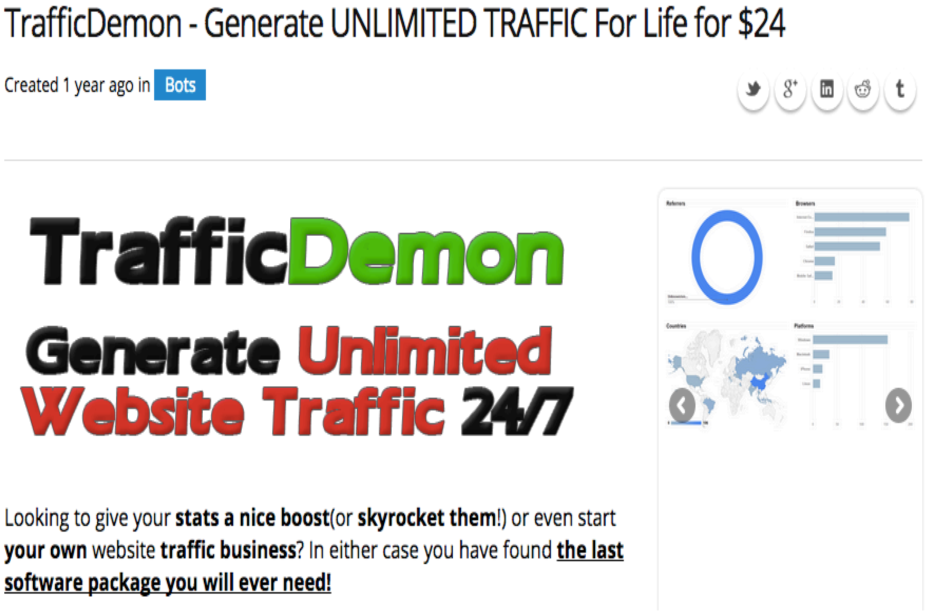
BO	BP	BQ	BR	BS	BT	BU	BV	BW
gzip, deflate	ru	Keep-Alive	justincity.zer	http://justin	(compatible; MSIE 6.0; Windows NT 5.1; SV1) ; .NET CLR 1.1.4322; .NET CLR 2.0.50727; InfoPath.1)			/home/con
gzip, deflate	ru	Keep-Alive	justincity.zer	http://justin	Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0; MRSPUTNIK 2, 4, 0, 454; Mozilla/4.0 (compatible; MSIE 6.0; Win			/home/con
gzip, deflate	ru	Keep-Alive	justincity.zer	http://justin	Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0; MRSPUTNIK 2, 4, 0, 454; Mozilla/4.0 (compatible; MSIE 6.0; Win			/home/con
gzip, deflate	ru	Keep-Alive	justincity.zer	http://justin	Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0; MRSPUTNIK 2, 4, 0, 454; Mozilla/4.0 (compatible; MSIE 6.0; Win			/home/con
gzip, deflate	ru	Keep-Alive	justincity.zer	http://justin	Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0; MRSPUTNIK 2, 4, 0, 454; Mozilla/4.0 (compatible; MSIE 6.0; Win			/home/con
gzip, deflate	ru	Keep-Alive	justincity.zer	http://justin	Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0; MRSPUTNIK 2, 4, 0, 454; Mozilla/4.0 (compatible; MSIE 6.0; Win			/home/con
gzip, deflate	ru	Keep-Alive	justincity.zer	http://justin	Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0; MRSPUTNIK 2, 4, 0, 454; Mozilla/4.0 (compatible; MSIE 6.0; Win			/home/con
gzip, deflate	ru	Keep-Alive	justincity.zer	http://justin	Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0; MRSPUTNIK 2, 4, 0, 454; Mozilla/4.0 (compatible; MSIE 6.0; Win			/home/con
gzip, deflate	ru	Keep-Alive	justincity.zer	http://justin	Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0; MRSPUTNIK 2, 4, 0, 454; Mozilla/4.0 (compatible; MSIE 6.0; Win			/home/con
gzip, deflate	ru	Keep-Alive	justincity.zer	http://justin	Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0; MRSPUTNIK 2, 4, 0, 454; Mozilla/4.0 (compatible; MSIE 6.0; Win			/home/con
gzip, deflate	ru	Keep-Alive	justincity.zer	http://justin	Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0; MRSPUTNIK 2, 4, 0, 454; Mozilla/4.0 (compatible; MSIE 6.0; Win			/home/con
gzip, deflate	ru	Keep-Alive	justincity.zer	http://justin	Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0; MRSPUTNIK 2, 4, 0, 454; Mozilla/4.0 (compatible; MSIE 6.0; Win			/home/con
gzip, deflate	ru	Keep-Alive	justincity.zer	http://justin	Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0; MRSPUTNIK 2, 4, 0, 454; Mozilla/4.0 (compatible; MSIE 6.0; Win			/home/con
gzip, deflate	ru	Keep-Alive	justincity.zer	http://justin	Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0; MRSPUTNIK 2, 4, 0, 454; Mozilla/4.0 (compatible; MSIE 6.0; Win			/home/con
gzip, deflate	ru	Keep-Alive	justincity.zer	http://justin	Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0; MRSPUTNIK 2, 4, 0, 454; Mozilla/4.0 (compatible; MSIE 6.0; Win			/home/con
gzip, deflate	ru	Keep-Alive	justincity.zer	http://justin	Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0; MRSPUTNIK 2, 4, 0, 454; Mozilla/4.0 (compatible; MSIE 6.0; Win			/home/con
gzip, deflate	ru	Keep-Alive	justincity.zer	http://justin	Mozilla/4.0 (compatible; MSIE 8.0; Windows NT 5.1; Trident/4.0; MRSPUTNIK 2, 4, 0, 454; Mozilla/4.0 (compatible; MSIE 6.0; Win			/home/con

Traffic Generators

Amazing Breakthrough
Perpetual Traffic Generator
Creates A Self-Feeding, Never Ending Stream of Prospects
Completely Automated
100% Guaranteed!
PerpetualTrafficGenerator.com
Miracle Traffic Bot™
One Click Submission & SEO Automation Software
I Got Quality Backlinks!
I Got Massive Traffic!
I Made More Money!
…OUGH TECHNOLOGY FOR…
…VE FREE TRAFFIC & PROVEN RESULTS!
…minate Your Advertising Costs
…prove Search Engine Rankings
…t Hundreds Of Quality Backlinks
…n More
Download
Push Button Traffic Getting Robot Pulls
101,488 Visitors Per Month
…And Gets Top Search Engine Rankings, More Backlinks and Massive Boost in Sales - Guaranteed!

Brand *NEW* Traffic Software Generates 867,981 Targeted Visitors On Autopilot And Banks $540,430.00...
Without Software
17,726 Visitors
With Software
867,981 Visitors
$540,430.00
Download Here

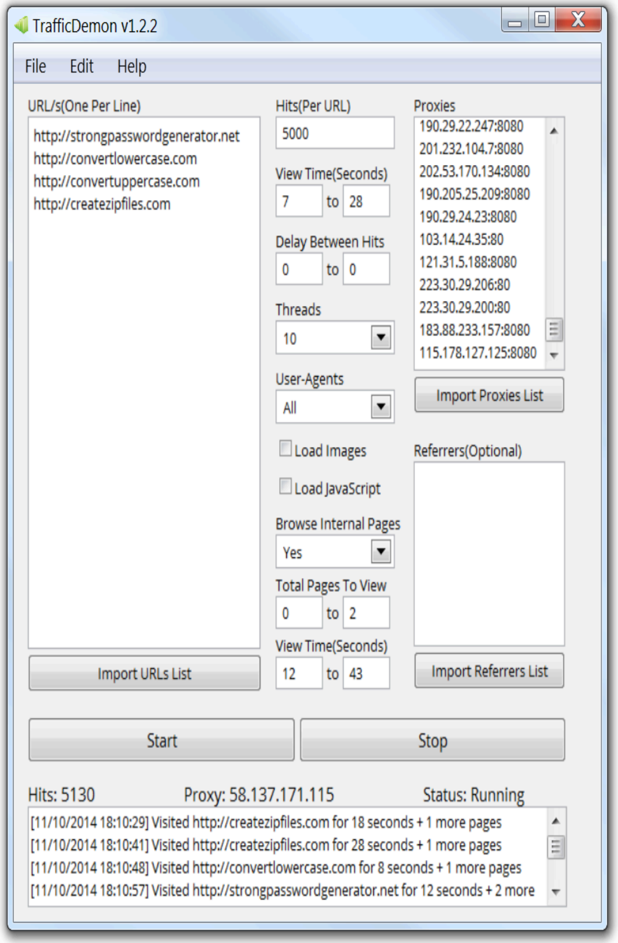
Traffic Demon



TrafficDemon - Generate UNLIMITED TRAFFIC For Life for $24

Created 1 year ago in Bots

Looking to give your **stats a nice boost**(or **skyrocket them**!) or even start **your own** website **traffic business**? In either case you have found **the last software package you will ever need!**



TrafficDemon v1.2.2

URL/s(One Per Line)

http://strongpasswordgenerator.net
http://convertlowercase.com
http://convertuppercase.com
http://createzipfiles.com

Hits(Per URL): 5000

View Time(Seconds): 7 to 28

Delay Between Hits: 0 to 0

Threads: 10

User-Agents: All

□ Load Images

□ Load JavaScript

Browse Internal Pages: Yes

Total Pages To View: 0 to 2

View Time(Seconds): 12 to 43

Proxies

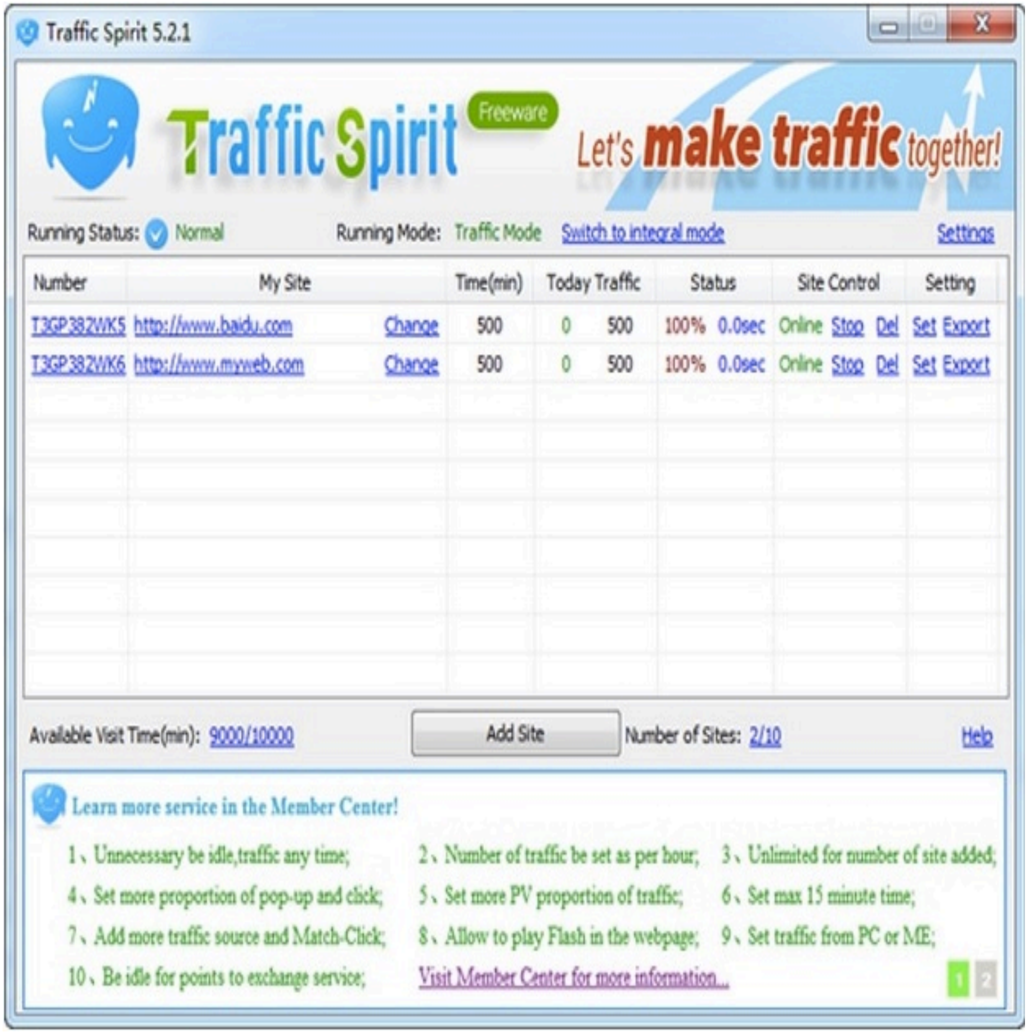
190.29.22.247:8080
201.232.104.7:8080
202.53.170.134:8080
190.205.25.209:8080
190.29.24.23:8080
103.14.24.35:80
121.31.5.188:8080
223.30.29.206:80
223.30.29.200:80
183.88.233.157:8080
115.178.127.125:8080

Referrers(Optional)

Hits: 5130 Proxy: 58.137.171.115 Status: Running

```
[11/10/2014 18:10:29] Visited http://createzipfiles.com for 18 seconds + 1 more pages
[11/10/2014 18:10:41] Visited http://createzipfiles.com for 28 seconds + 1 more pages
[11/10/2014 18:10:48] Visited http://convertlowercase.com for 8 seconds + 1 more pages
[11/10/2014 18:10:57] Visited http://strongpasswordgenerator.net for 12 seconds + 2 more
```

Traffic Spirit (also known as Traffic Ghost)



Running Status: ✓ Normal Running Mode: Traffic Mode Switch to integral mode

Number	My Site	Time(min)	Today Traffic	Status	Site Control	Setting
T3GP382WK5	http://www.baidu.com Change	500	0 500	100% 0.0sec	Online Stop Del	Set Export
T3GP382WK6	http://www.myweb.com Change	500	0 500	100% 0.0sec	Online Stop Del	Set Export

Available Visit Time(min): 9000/10000

Number of Sites: 2/10

Learn more service in the Member Center!

1、Unnecessary be idle,traffic any time;

2、Number of traffic be set as per hour;

3、Unlimited for number of site added;

4、Set more proportion of pop-up and click;

5、Set more PV proportion of traffic;

6、Set max 15 minute time;

7、Add more traffic source and Match-Click;

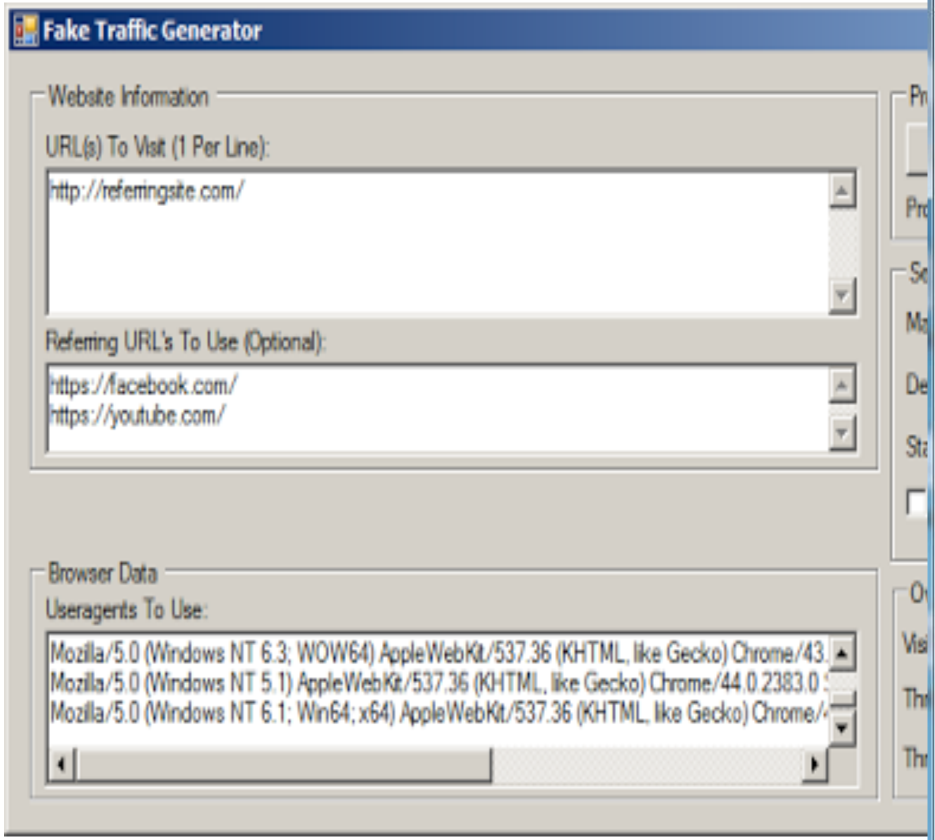
8、Allow to play Flash in the webpage;

9、Set traffic from PC or ME;

10、Be idle for points to exchange service;

Visit Member Center for more information...

Fake Traffic Generator



URL(s) To Visit (1 Per Line):

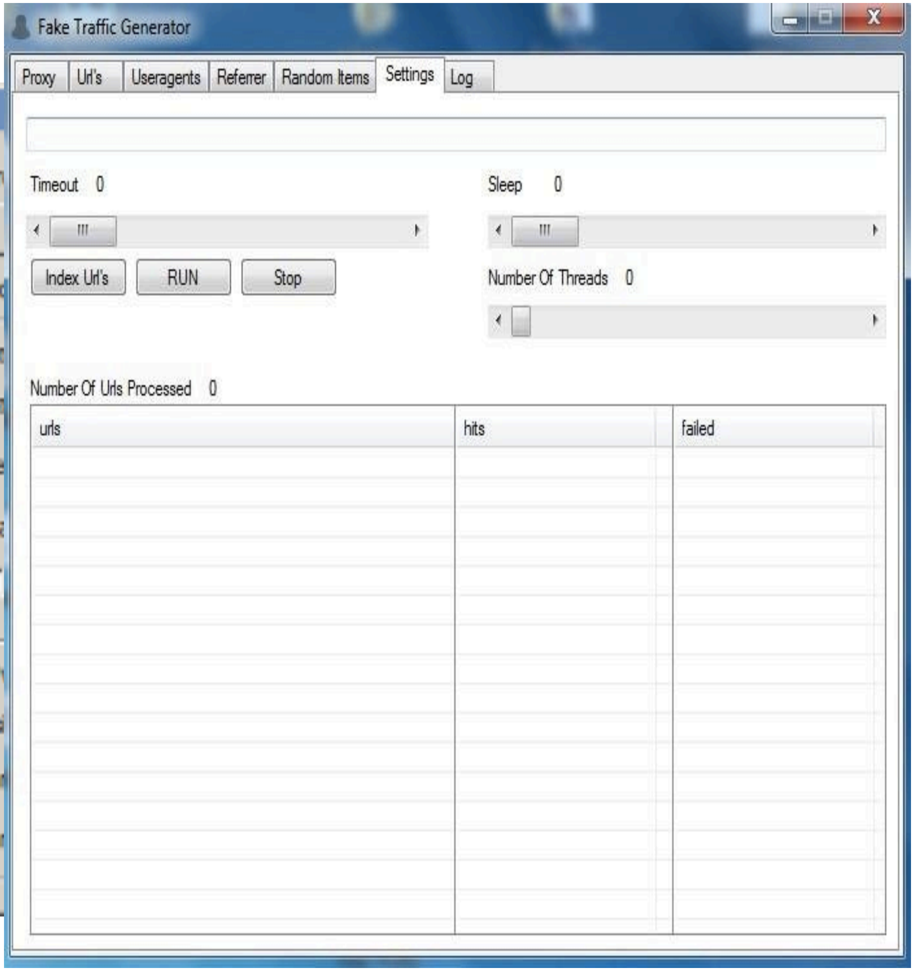
http://referringsite.com/

Referring URL's To Use (Optional):

https://facebook.com/
https://youtube.com/

Useragents To Use:

```
Mozilla/5.0 (Windows NT 6.3; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/43.
Mozilla/5.0 (Windows NT 5.1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/44.0.2383.0 
Mozilla/5.0 (Windows NT 6.1; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/
```



Timeout 0

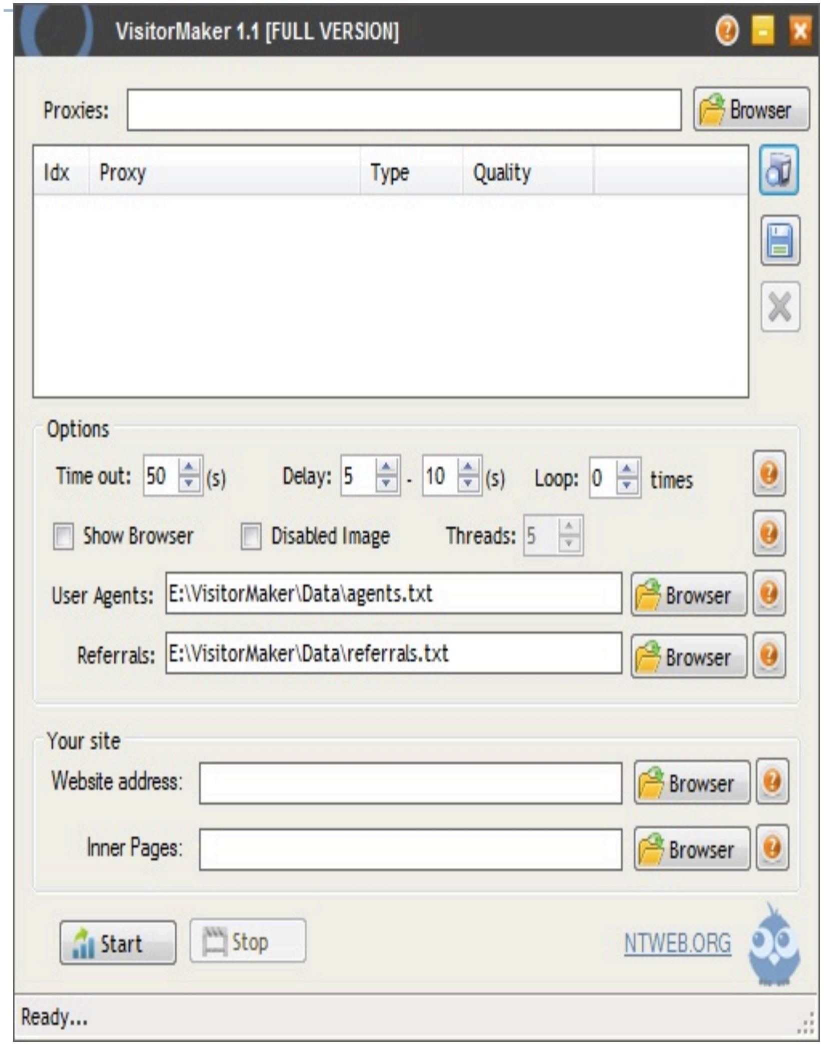
Sleep 0

Number Of Threads 0

Number Of Urls Processed 0

urls	hits	failed

Visitor Maker



VisitorMaker 1.1 [FULL VERSION]

Proxies:

Options

Time out: 50 (s)

Delay: 5 - 10 (s)

Loop: 0 times

□ Show Browser

□ Disabled Image

Threads: 5

User Agents: E:\VisitorMaker\Data\agents.txt

Referrals: E:\VisitorMaker\Data\referrals.txt

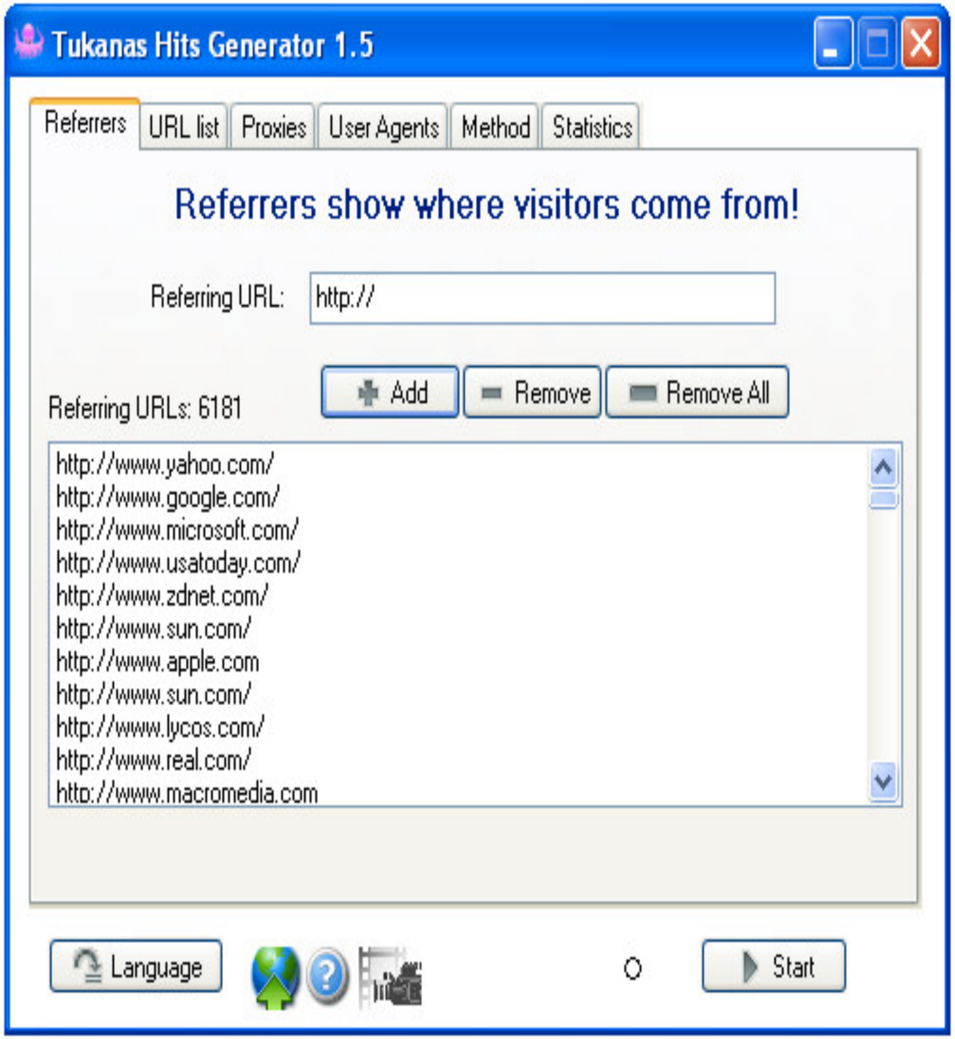
Your site

Website address:

Inner Pages:

Ready...

Tunkas Hits Generator



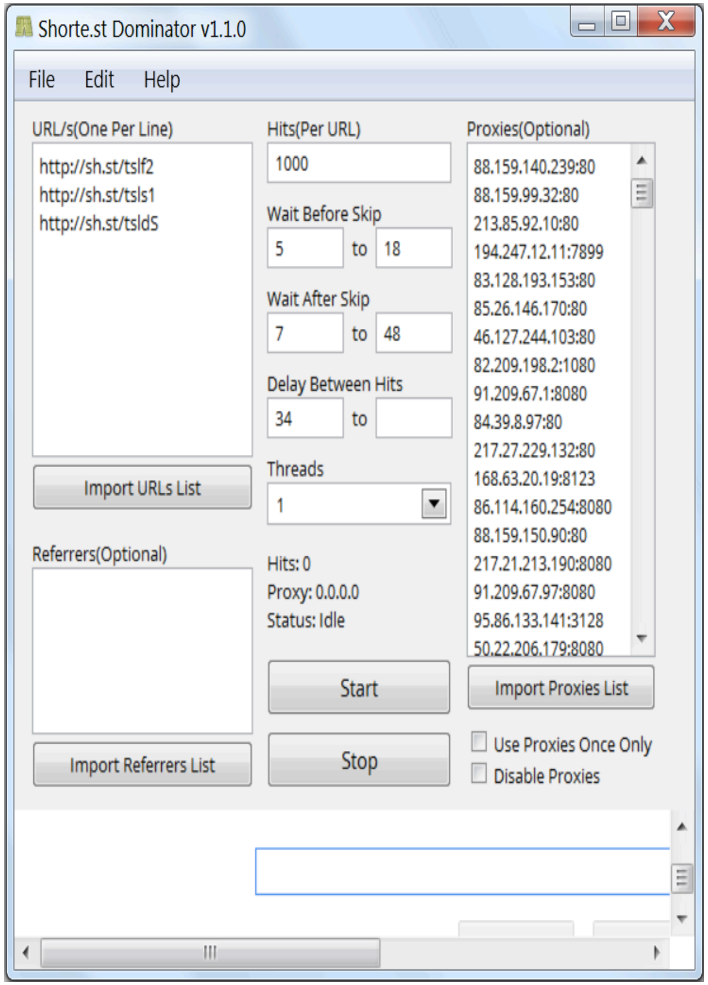
Referrers show where visitors come from!

Referring URL: http://

Referring URLs: 6181

http://www.yahoo.com/
http://www.google.com/
http://www.microsoft.com/
http://www.usatoday.com/
http://www.zdnet.com/
http://www.sun.com/
http://www.apple.com
http://www.sun.com/
http://www.lycos.com/
http://www.real.com/
http://www.macromedia.com

Dominator



Shorte.st Dominator v1.1.0

URL/s(One Per Line)

http://sh.st/tslf2
http://sh.st/tsls1
http://sh.st/tsldS

Referrers(Optional)

Hits(Per URL): 1000

Wait Before Skip: 5 to 18

Wait After Skip: 7 to 48

Delay Between Hits: 34 to

Threads: 1

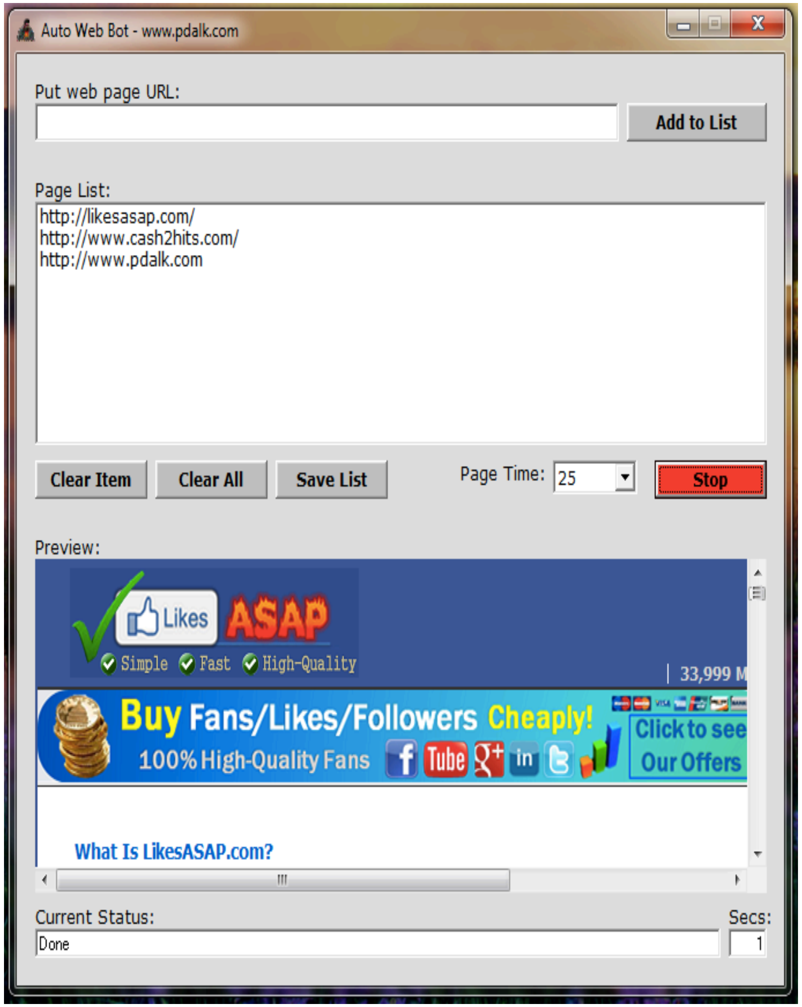
Hits: 0
Proxy: 0.0.0.0
Status: Idle

Proxies(Optional)

88.159.140.239:80
88.159.99.32:80
213.85.92.10:80
194.247.12.11:7899
83.128.193.153:80
85.26.146.170:80
46.127.244.103:80
82.209.198.2:1080
91.209.67.1:8080
84.39.8.97:80
217.27.229.132:80
168.63.20.19:8123
86.114.160.254:8080
88.159.150.90:80
217.21.213.190:8080
91.209.67.97:8080
95.86.133.141:3128
50.22.206.179:8080

□ Use Proxies Once Only
□ Disable Proxies

Auto Web Bot



Auto Web Bot - www.pdalk.com

Put web page URL:

Page List:

http://likesasap.com/
http://www.cash2hits.com/
http://www.pdalk.com

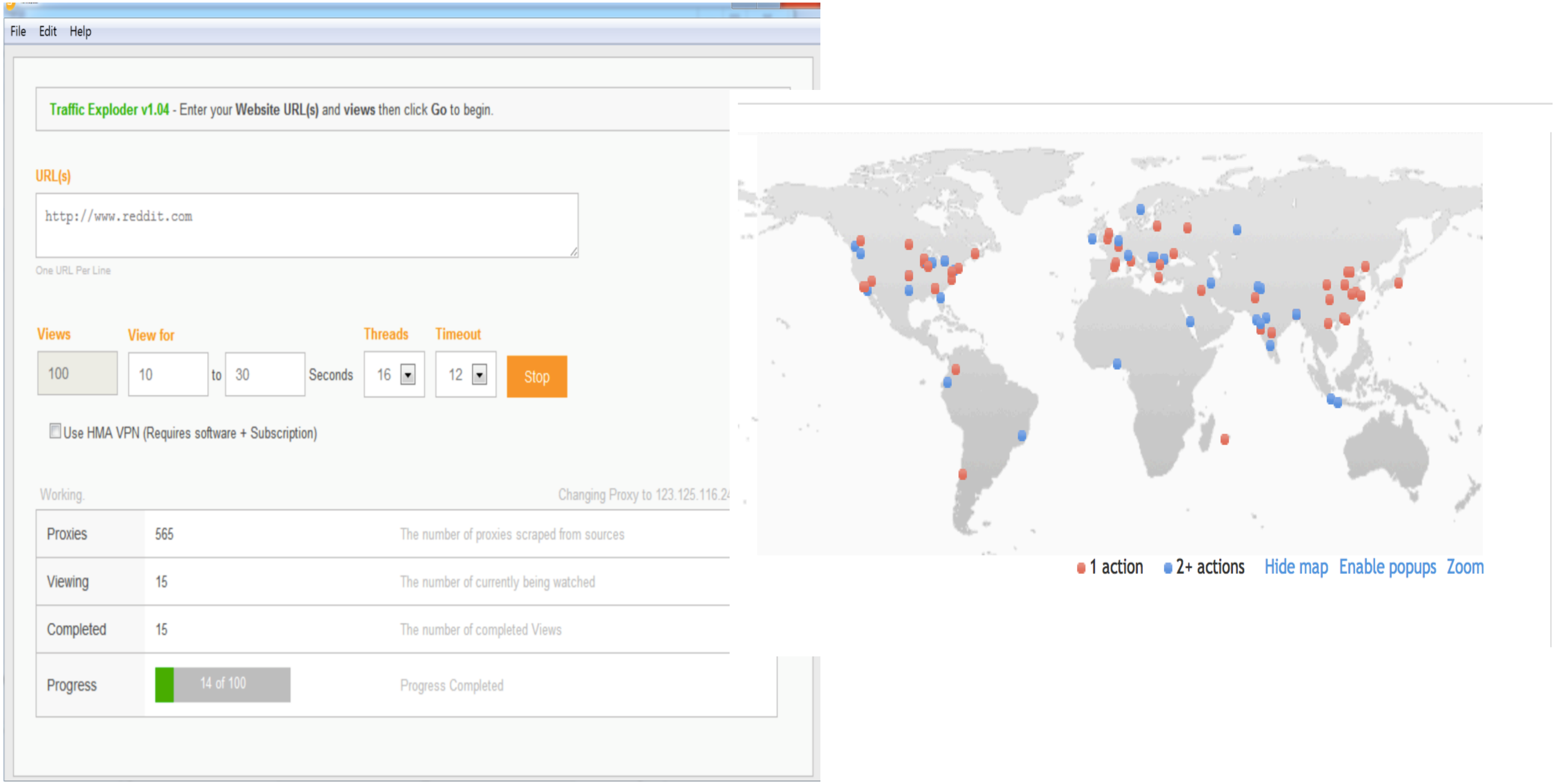
Page Time: 25

Preview:

Current Status: Done

Secs: 1

Traffic Exploder



Traffic Exploder v1.04 - Enter your Website URL(s) and views then click Go to begin.

URL(s)

```
http://www.reddit.com
```

One URL Per Line

Views: 100

View for: 10 to 30 Seconds

Threads: 16

Timeout: 12

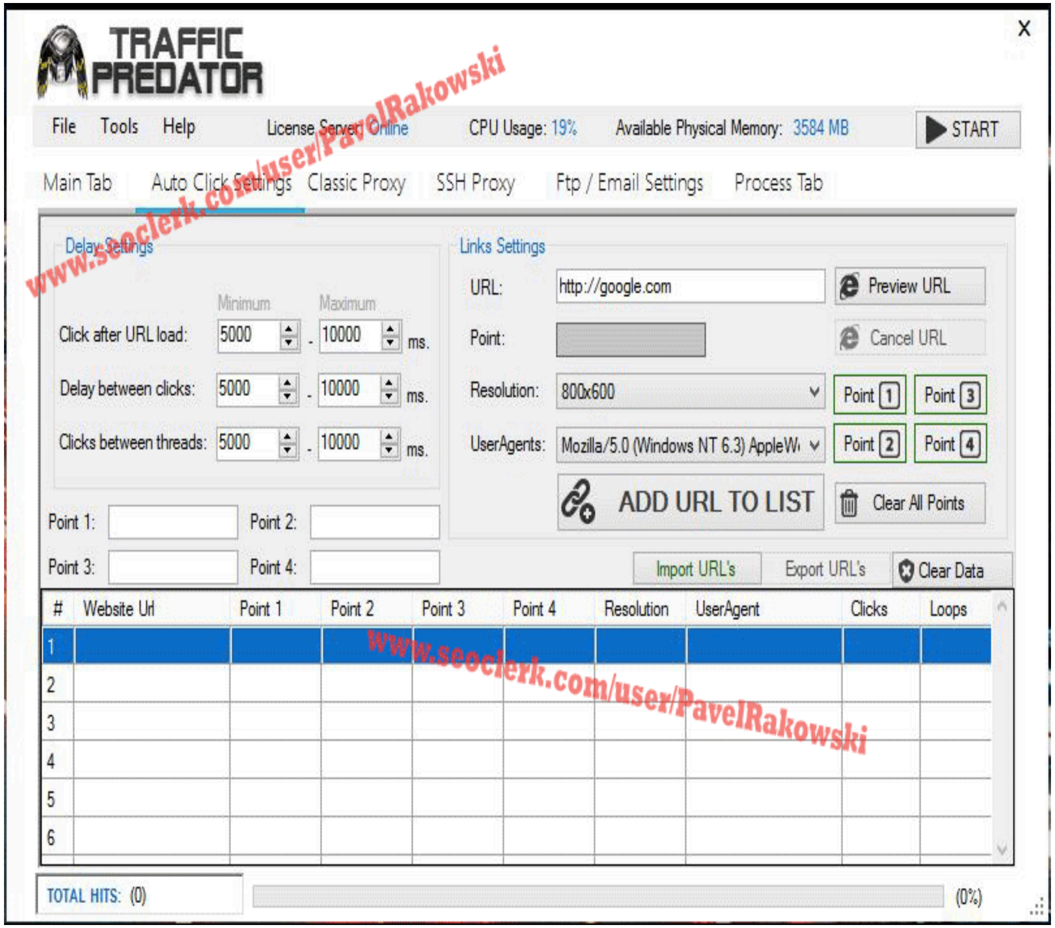
☐ Use HMA VPN (Requires software + Subscription)

Working.

Changing Proxy to 123.125.116.2

Proxies	565	The number of proxies scraped from sources
Viewing	15	The number of currently being watched
Completed	15	The number of completed Views
Progress	14 of 100	Progress Completed

Traffic Predator



License Server: Online

CPU Usage: 19%

Available Physical Memory: 3584 MB

Delay Settings

	Minimum		Maximum	
Click after URL load:	5000	-	10000	ms.
Delay between clicks:	5000	-	10000	ms.
Clicks between threads:	5000	-	10000	ms.

Point 1:

Point 2:

Point 3:

Point 4:

Links Settings

URL: http://google.com

Point:

Resolution: 800x600

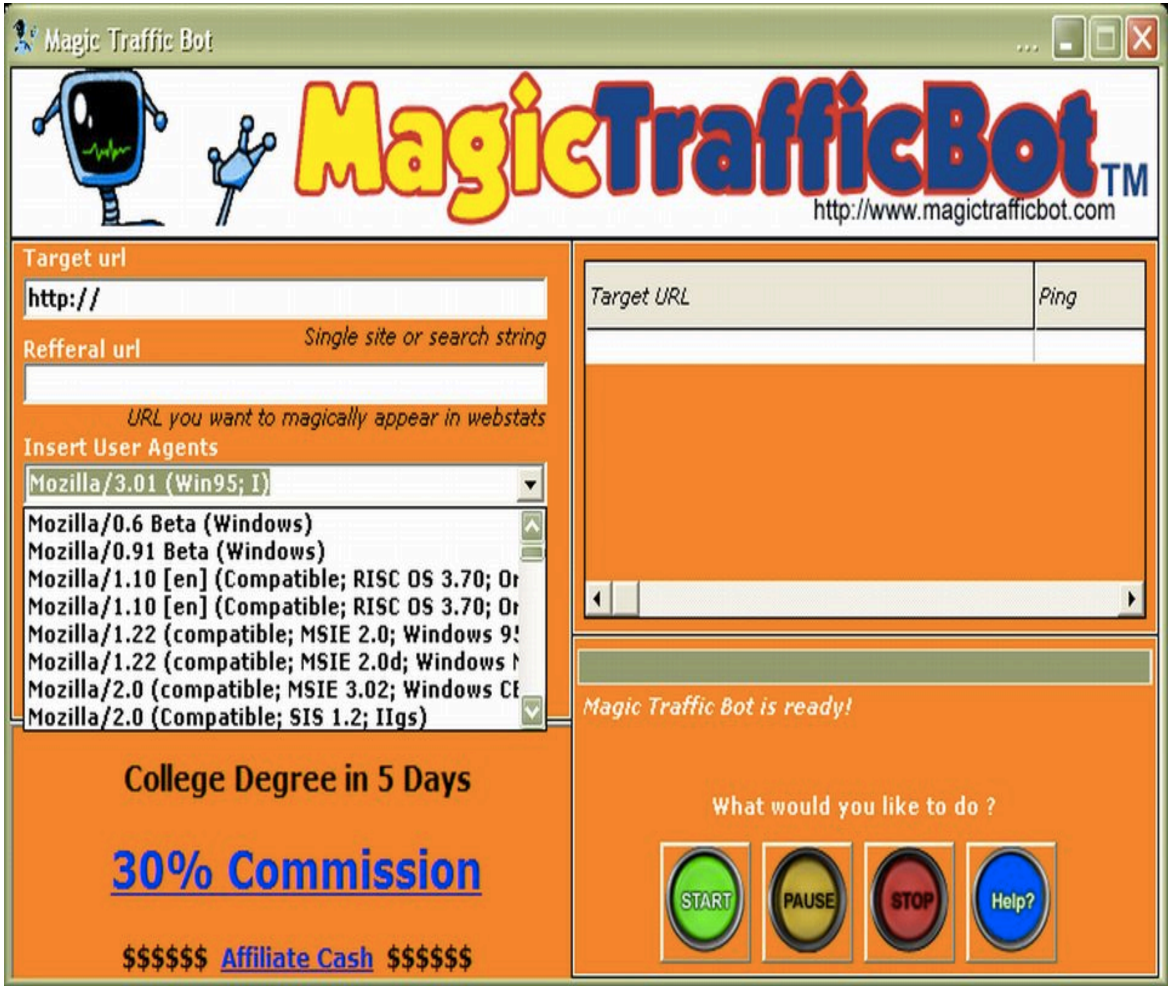
UserAgents: Mozilla/5.0 (Windows NT 6.3) AppleW

#	Website Url	Point 1	Point 2	Point 3	Point 4	Resolution	UserAgent	Clicks	Loops
1									
2									
3									
4									
5									
6									

TOTAL HITS: (0)

(0%)

Magic Traffic Bot



Target url

http://

Refferal url

Single site or search string

URL you want to magically appear in webstats

Insert User Agents

Mozilla/3.01 (Win95; I)

```
Mozilla/0.6 Beta (Windows)
Mozilla/0.91 Beta (Windows)
Mozilla/1.10 [en] (Compatible; RISC OS 3.70; Or
Mozilla/1.10 [en] (Compatible; RISC OS 3.70; Or
Mozilla/1.22 (compatible; MSIE 2.0; Windows 9!
Mozilla/1.22 (compatible; MSIE 2.0d; Windows N
Mozilla/2.0 (compatible; MSIE 3.02; Windows CE
Mozilla/2.0 (Compatible; SIS 1.2; IIgs)
```

Target URL	Ping

College Degree in 5 Days

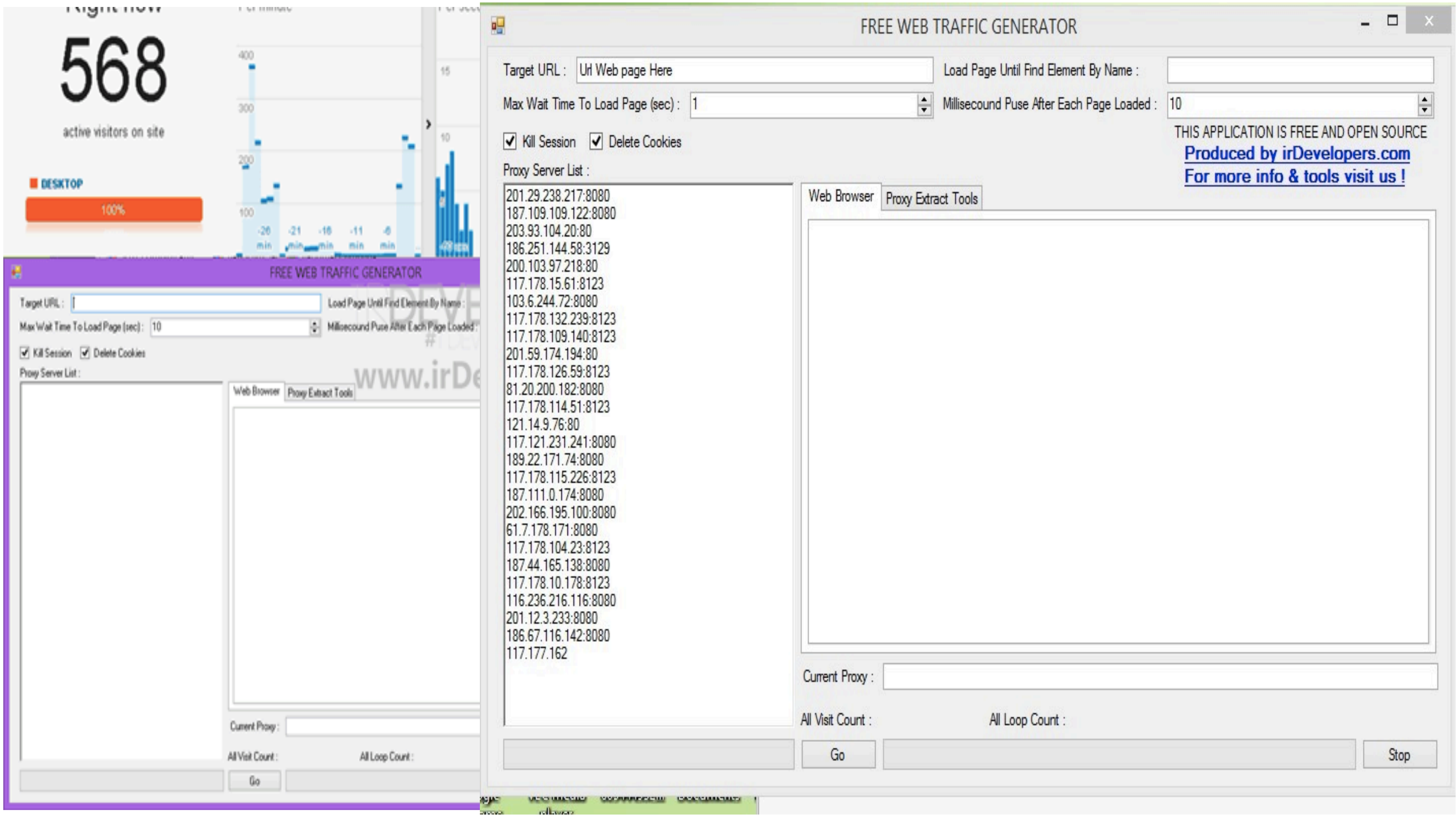
30% Commission

$$$$$$ Affiliate Cash $$$$$$

Magic Traffic Bot is ready!

What would you like to do ?

Free Web Traffic Generator



FREE WEB TRAFFIC GENERATOR

Target URL : Url Web page Here

Load Page Until Find Element By Name :

Max Wait Time To Load Page (sec) : 1

Millisecound Puse After Each Page Loaded : 10

☑ Kill Session ☑ Delete Cookies

THIS APPLICATION IS FREE AND OPEN SOURCE
Produced by irDevelopers.com
For more info & tools visit us !

Proxy Server List :

```
201.29.238.217:8080
187.109.109.122:8080
203.93.104.20:80
186.251.144.58:3129
200.103.97.218:80
117.178.15.61:8123
103.6.244.72:8080
117.178.132.239:8123
117.178.109.140:8123
201.59.174.194:80
117.178.126.59:8123
81.20.200.182:8080
117.178.114.51:8123
121.14.9.76:80
117.121.231.241:8080
189.22.171.74:8080
117.178.115.226:8123
187.111.0.174:8080
202.166.195.100:8080
61.7.178.171:8080
117.178.104.23:8123
187.44.165.138:8080
117.178.10.178:8123
116.236.216.116:8080
201.12.3.233:8080
186.67.116.142:8080
117.177.162
```

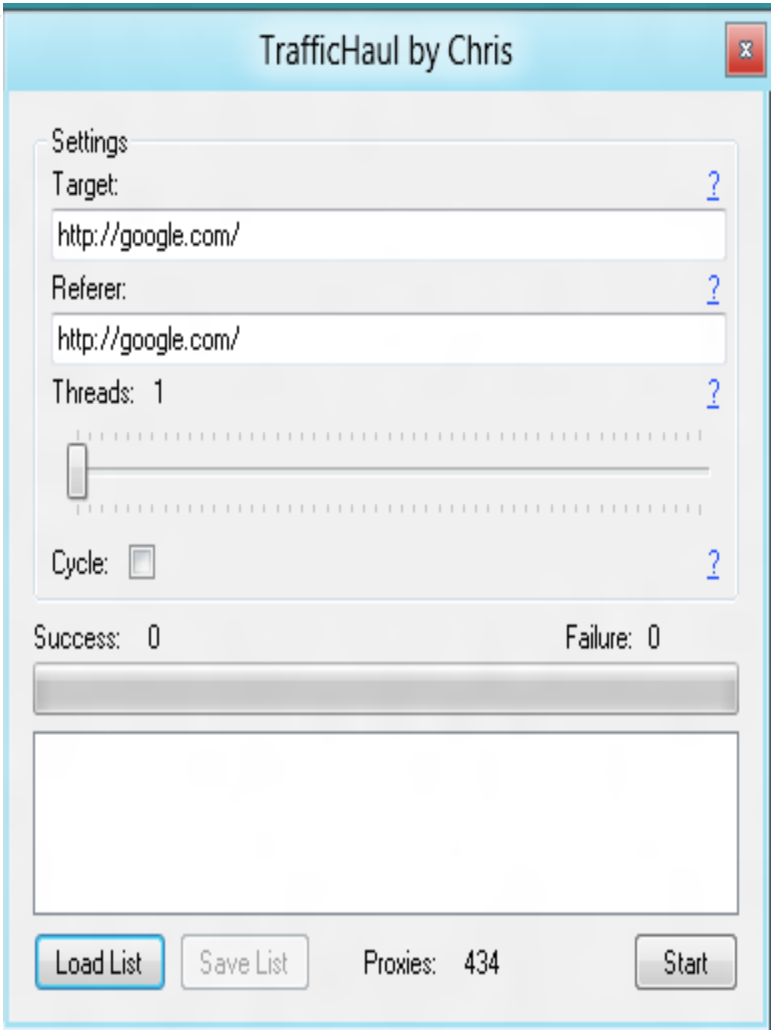
Current Proxy :

All Visit Count :

All Loop Count :

Traffic Haul

WEB TRAFFIC
Google
YAHOO!
bing
Website Traffic
TRAFFIC BOT ADVANCED WITH 60+ HITS IN A SECOND , GUARANTEED !
http://fourerr.com/danish1658



Settings

Target: http://google.com/

Referer: http://google.com/

Threads: 1

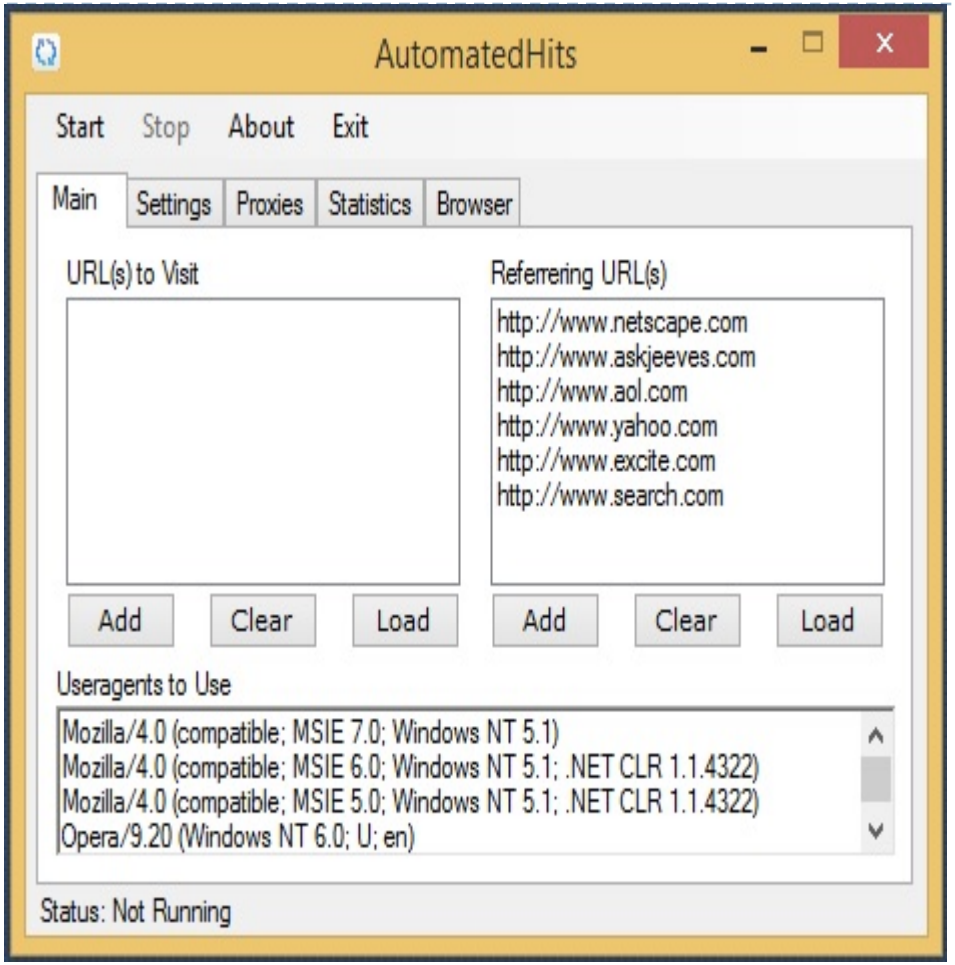
Cycle: □

Success: 0

Failure: 0

Proxies: 434

Automated Traffic Bot



URL(s) to Visit

Referring URL(s)

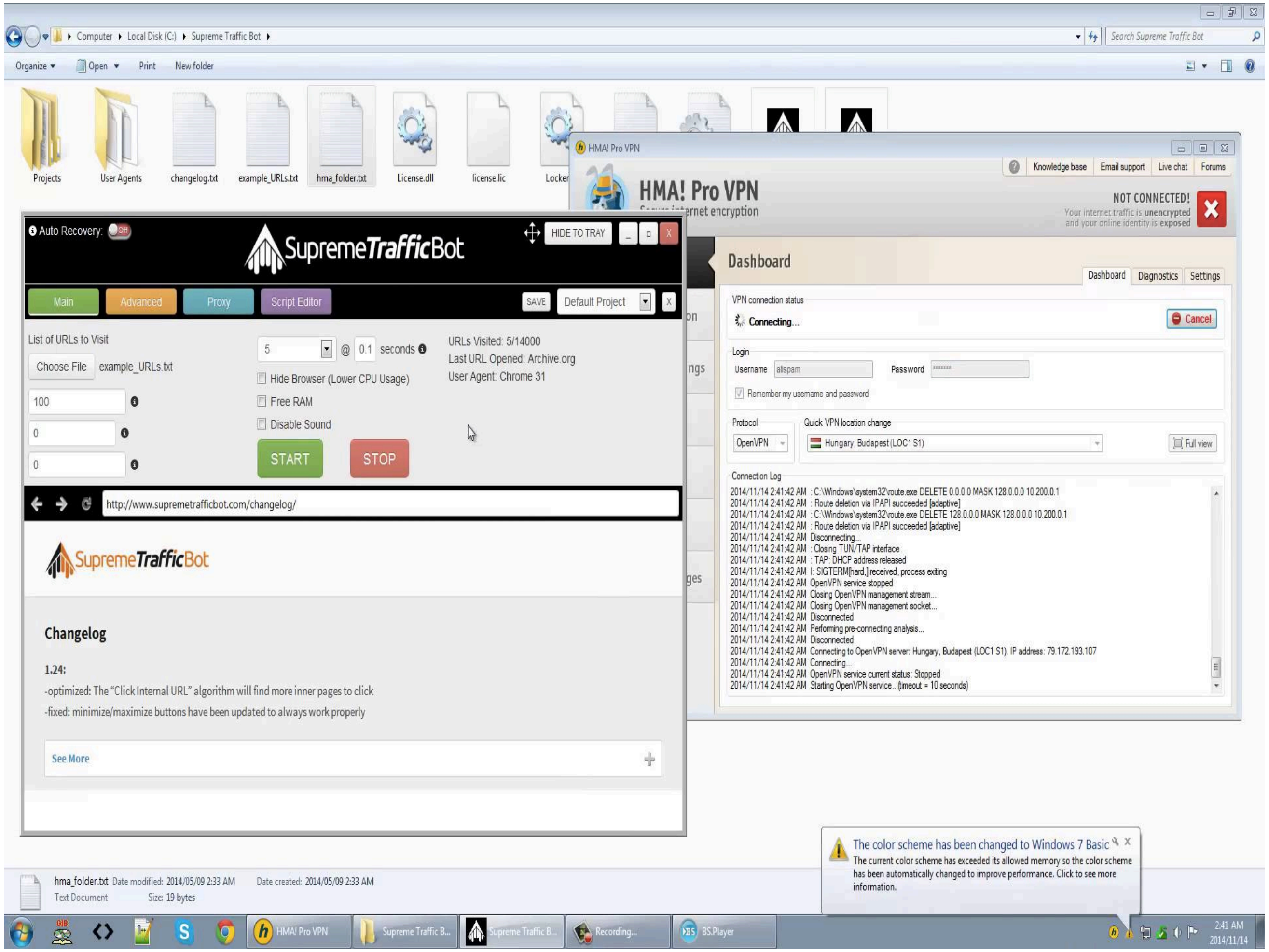
http://www.netscape.com
http://www.askjeeves.com
http://www.aol.com
http://www.yahoo.com
http://www.excite.com
http://www.search.com

Useragents to Use

Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 5.1)
Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; .NET CLR 1.1.4322)
Mozilla/4.0 (compatible; MSIE 5.0; Windows NT 5.1; .NET CLR 1.1.4322)
Opera/9.20 (Windows NT 6.0; U; en)

Status: Not Running

Supreme Traffic Bot



Auto Recovery: Off

List of URLs to Visit

example_URLs.txt

100

0

0

5 @ 0.1 seconds

□ Hide Browser (Lower CPU Usage)

□ Free RAM

□ Disable Sound

URLs Visited: 5/14000
Last URL Opened: Archive.org
User Agent: Chrome 31

http://www.supremetrafficbot.com/changelog/

Changelog

1.24:

-optimized: The "Click Internal URL" algorithm will find more inner pages to click

-fixed: minimize/maximize buttons have been updated to always work properly

NOT CONNECTED!
Your internet traffic is **unencrypted**
and your online identity is **exposed**

VPN connection status
Connecting...

Login
Username alispam Password *******
☑ Remember my username and password

Protocol: OpenVPN

Quick VPN location change: Hungary, Budapest (LOC1 S1)

Connection Log

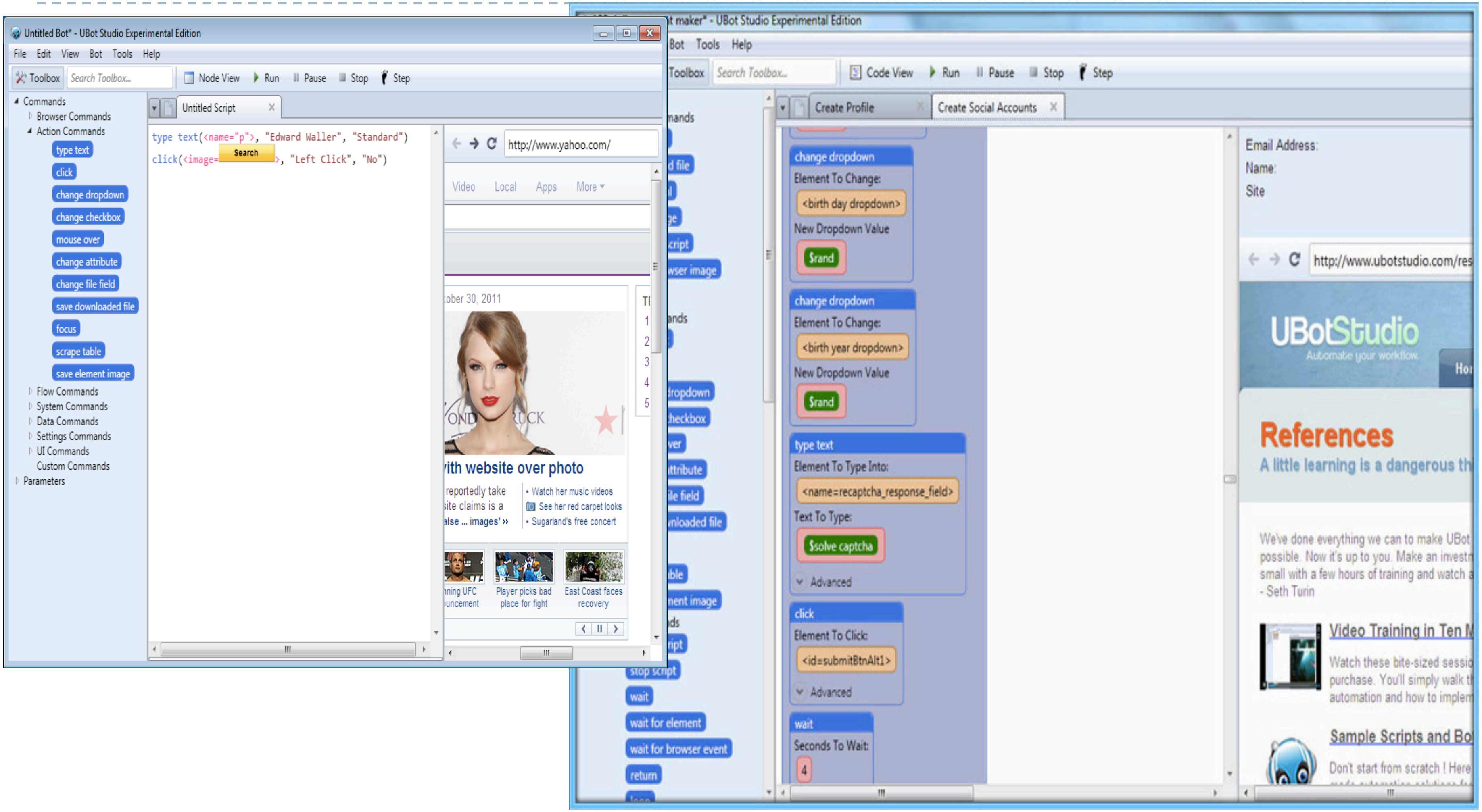
```
2014/11/14 2:41:42 AM  : C:\Windows\system32\route.exe DELETE 0.0.0.0 MASK 128.0.0.0 10.200.0.1
2014/11/14 2:41:42 AM  : Route deletion via IPAPI succeeded [adaptive]
2014/11/14 2:41:42 AM  : C:\Windows\system32\route.exe DELETE 128.0.0.0 MASK 128.0.0.0 10.200.0.1
2014/11/14 2:41:42 AM  : Route deletion via IPAPI succeeded [adaptive]
2014/11/14 2:41:42 AM  Disconnecting...
2014/11/14 2:41:42 AM  : Closing TUN/TAP interface
2014/11/14 2:41:42 AM  : TAP: DHCP address released
2014/11/14 2:41:42 AM  I: SIGTERM[hard,] received, process exiting
2014/11/14 2:41:42 AM  OpenVPN service stopped
2014/11/14 2:41:42 AM  Closing OpenVPN management stream...
2014/11/14 2:41:42 AM  Closing OpenVPN management socket...
2014/11/14 2:41:42 AM  Disconnected
2014/11/14 2:41:42 AM  Performing pre-connecting analysis...
2014/11/14 2:41:42 AM  Disconnected
2014/11/14 2:41:42 AM  Connecting to OpenVPN server: Hungary, Budapest (LOC1 S1). IP address: 79.172.193.107
2014/11/14 2:41:42 AM  Connecting...
2014/11/14 2:41:42 AM  OpenVPN service current status: Stopped
2014/11/14 2:41:42 AM  Starting OpenVPN service...(timeout = 10 seconds)
```

hma_folder.txt Date modified: 2014/05/09 2:33 AM Date created: 2014/05/09 2:33 AM
Text Document Size: 19 bytes

The color scheme has been changed to Windows 7 Basic
The current color scheme has exceeded its allowed memory so the color scheme has been automatically changed to improve performance. Click to see more information.

2:41 AM
2014/11/14

Ubot Studio



Untitled Bot* - UBot Studio Experimental Edition

```
type text(<name="p">, "Edward Waller", "Standard")
click(<image=Search>, "Left Click", "No")
```

change dropdown
Element To Change: <birth day dropdown>
New Dropdown Value: $rand

change dropdown
Element To Change: <birth year dropdown>
New Dropdown Value: $rand

type text
Element To Type Into: <name=recaptcha_response_field>
Text To Type: $solve captcha

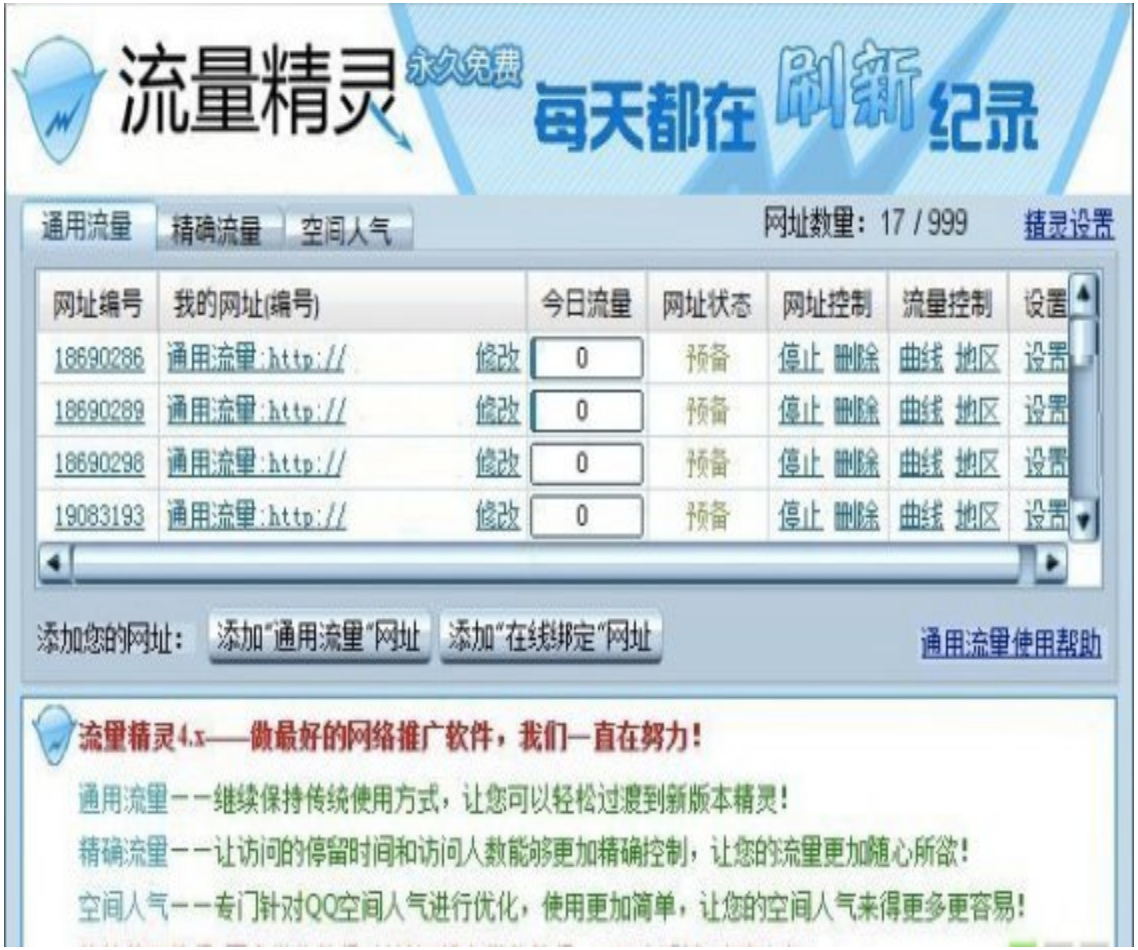
click
Element To Click: <id=submitBtnAlt1>

wait
Seconds To Wait: 4

Traffic Generator Characteristics

- Direct URL Visits
- InnerPages URL Visits
- Random Links Visits
- AutoClick Direct Links
- AutoClick Selected Area
- Multithreads
- Custom Screen Resolution
- Delay Between Threads
- Delay in Stay URL
- Delay Between Clicks
- Random Number of Views
- Repeat Every X Hours/Min.
- Delete History & Cookies
- Desktop User Agents
- Mobile User Agents
- Custom Referrers
- VPN Support
- IP Change every "X" min.
- IP Change every "X" Views
- Proxy Support
- SSH Support
- Proxy Scraper & Validator
- FTP Upload Proxies
- Mass Email Proxies

Traffic Exchanges - Jingling



通用流量 精确流量 空间人气

网址数量：17 / 999 精灵设置

网址编号	我的网址(编号)		今日流量	网址状态	网址控制	流量控制	设置
18690286	通用流量:http://	修改	0	预备	停止 删除	曲线 地区	设置
18690289	通用流量:http://	修改	0	预备	停止 删除	曲线 地区	设置
18690298	通用流量:http://	修改	0	预备	停止 删除	曲线 地区	设置
19083193	通用流量:http://	修改	0	预备	停止 删除	曲线 地区	设置

添加您的网址： 添加"通用流量"网址 添加"在线绑定"网址 通用流量使用帮助

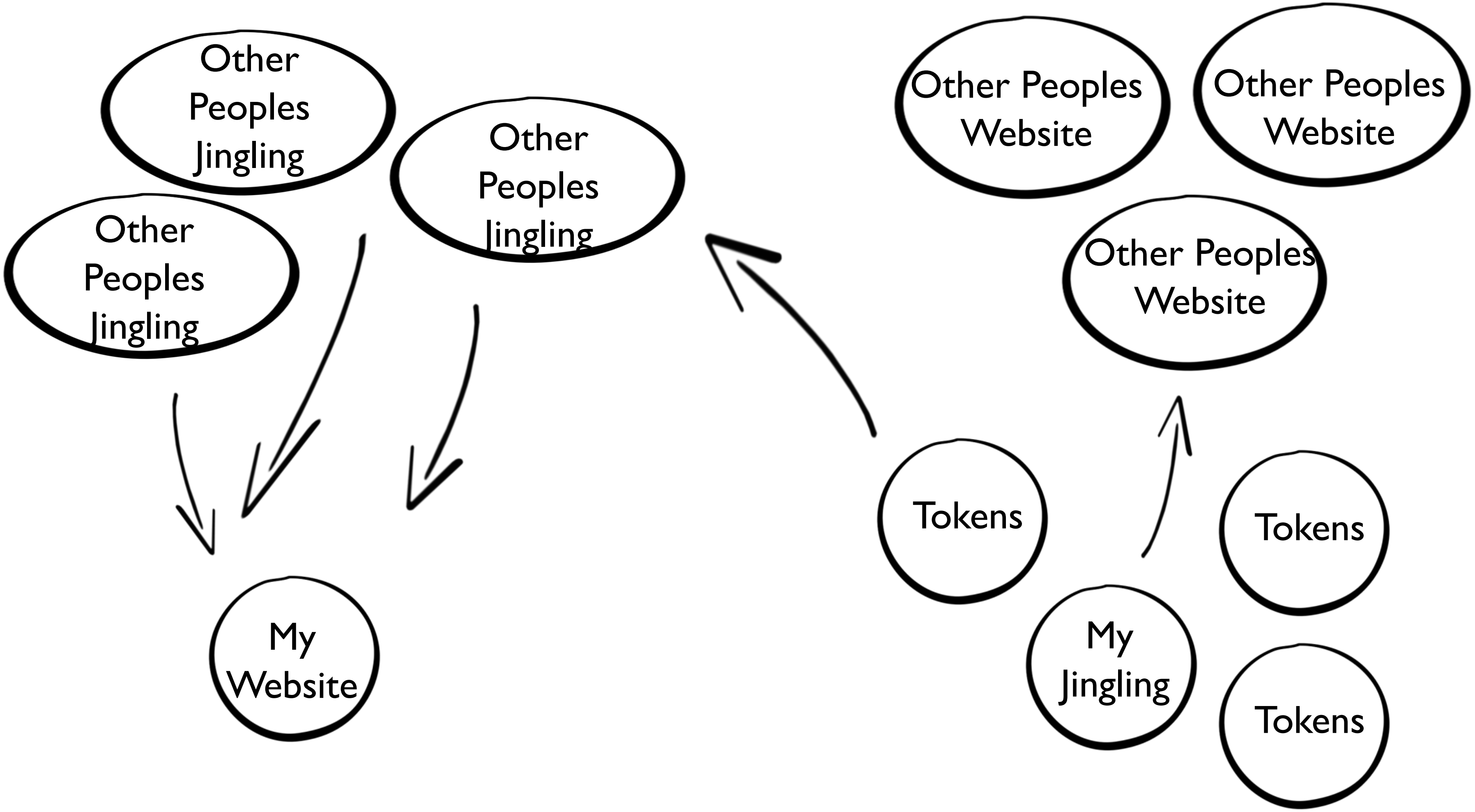
流量精灵4.x——做最好的网络推广软件，我们一直在努力！

通用流量——继续保持传统使用方式，让您可以轻松过渡到新版本精灵！

精确流量——让访问的停留时间和访问人数能够更加精确控制，让您的流量更加随心所欲！

空间人气——专门针对QQ空间人气进行优化，使用更加简单，让您的空间人气来得更多更容易！

Traffic Exchange 101



Other Peoples Jingling

Other Peoples Jingling

Other Peoples Jingling

My Website

Other Peoples Website

Other Peoples Website

Other Peoples Website

Tokens

Tokens

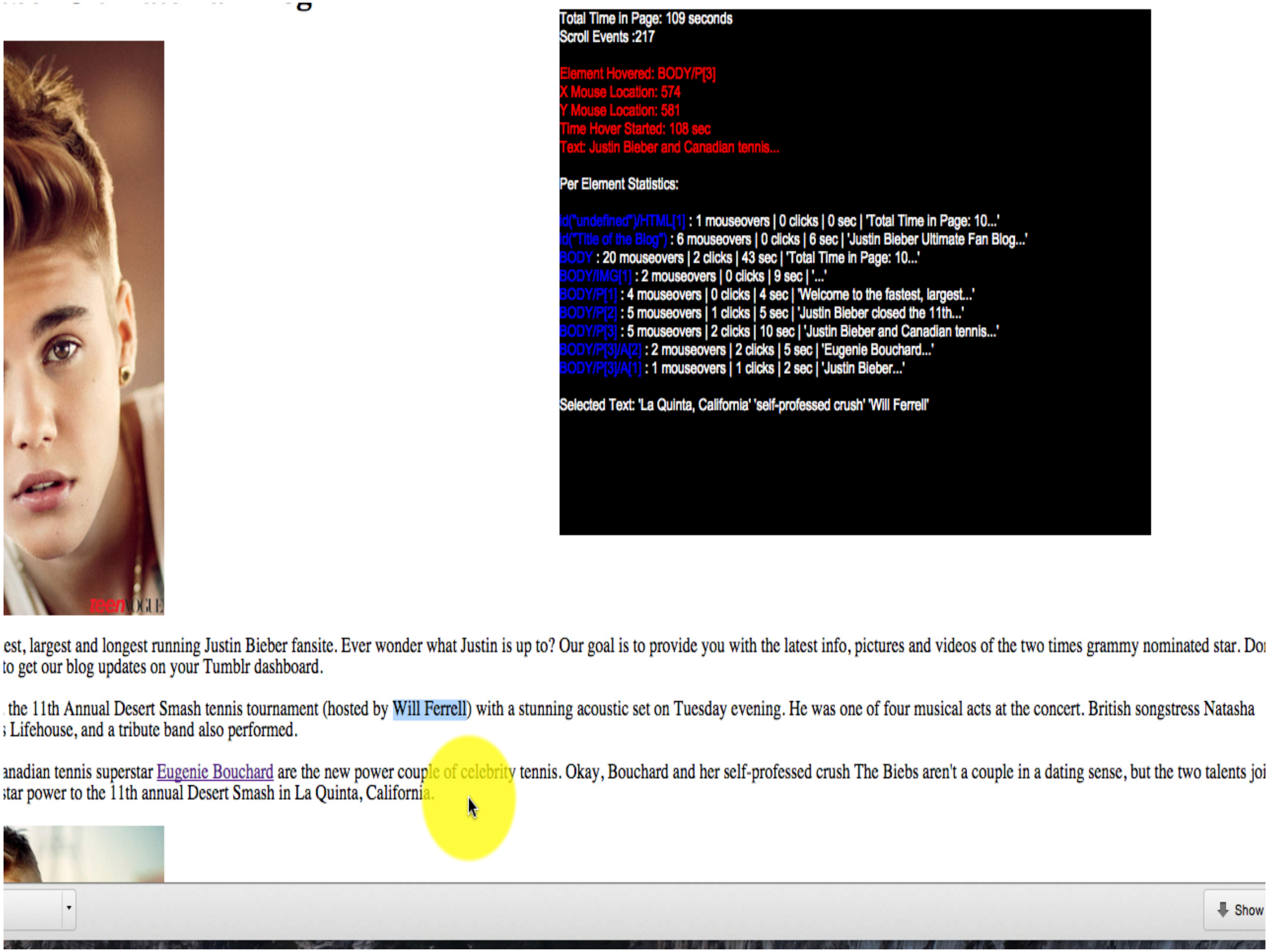
Tokens

My Jingling

Using Malware for Traffic

- Create hidden browsers
- Generate random mouse movements
- Page Scrolls
- Random Clicks
- Mute volume

User Events and Engagements



```
Total Time in Page: 109 seconds
Scroll Events :217

Element Hovered: BODY/P[3]
X Mouse Location: 574
Y Mouse Location: 581
Time Hover Started: 108 sec
Text: Justin Bieber and Canadian tennis...

Per Element Statistics:

id("undefined")/HTML[1] : 1 mouseovers | 0 clicks | 0 sec | 'Total Time in Page: 10...'
id("Title of the Blog") : 6 mouseovers | 0 clicks | 6 sec | 'Justin Bieber Ultimate Fan Blog...'
BODY : 20 mouseovers | 2 clicks | 43 sec | 'Total Time in Page: 10...'
BODY/IMG[1] : 2 mouseovers | 0 clicks | 9 sec | '...'
BODY/P[1] : 4 mouseovers | 0 clicks | 4 sec | 'Welcome to the fastest, largest...'
BODY/P[2] : 5 mouseovers | 1 clicks | 5 sec | 'Justin Bieber closed the 11th...'
BODY/P[3] : 5 mouseovers | 2 clicks | 10 sec | 'Justin Bieber and Canadian tennis...'
BODY/P[3]/A[2] : 2 mouseovers | 2 clicks | 5 sec | 'Eugenie Bouchard...'
BODY/P[3]/A[1] : 1 mouseovers | 1 clicks | 2 sec | 'Justin Bieber...'

Selected Text: 'La Quinta, California' 'self-professed crush' 'Will Ferrell'
```

est, largest and longest running Justin Bieber fansite. Ever wonder what Justin is up to? Our goal is to provide you with the latest info, pictures and videos of the two times grammy nominated star. Do to get our blog updates on your Tumblr dashboard.

the 11th Annual Desert Smash tennis tournament (hosted by Will Ferrell) with a stunning acoustic set on Tuesday evening. He was one of four musical acts at the concert. British songstress Natasha ; Lifehouse, and a tribute band also performed.

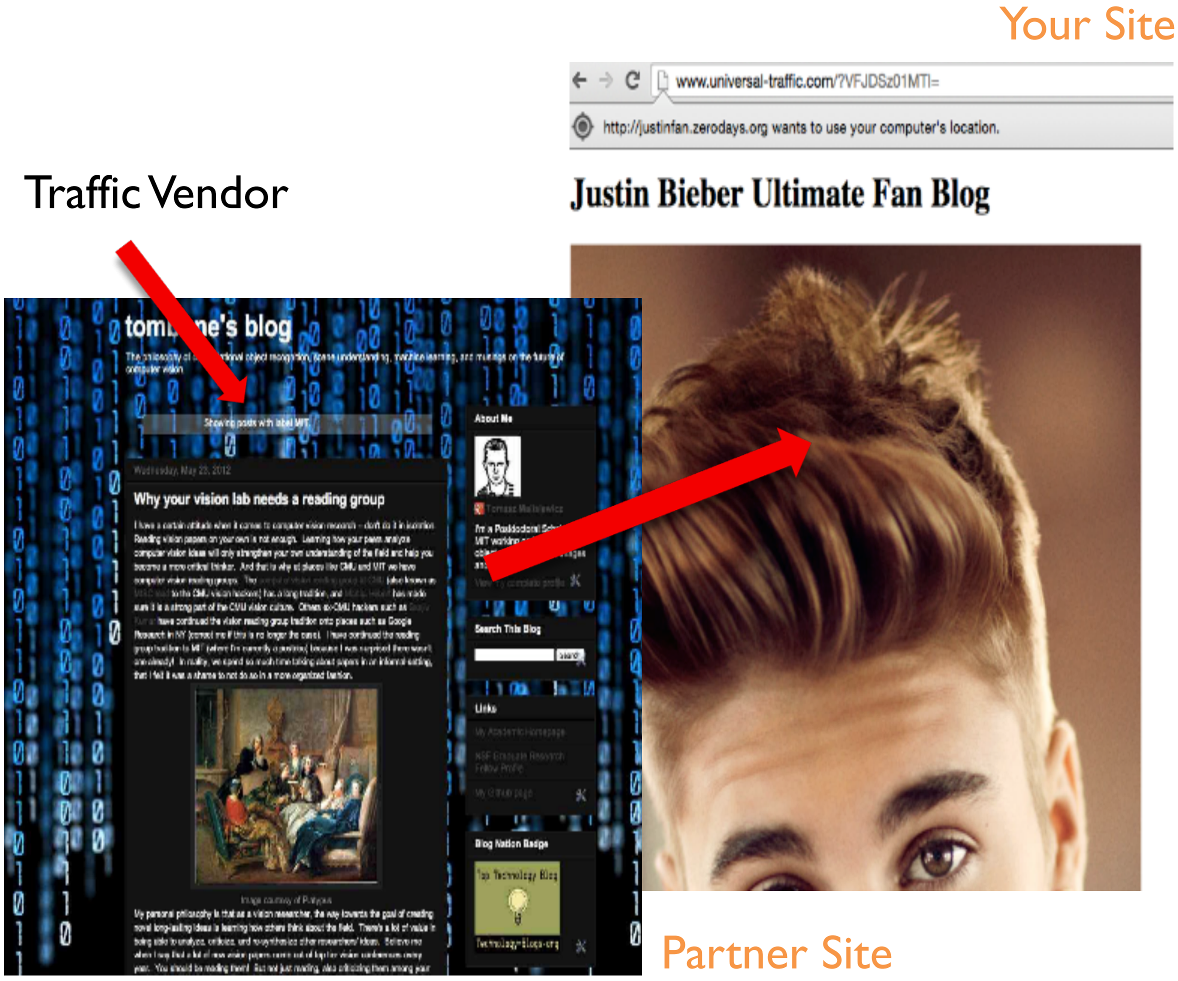
anadian tennis superstar Eugenie Bouchard are the new power couple of celebrity tennis. Okay, Bouchard and her self-professed crush The Biebs aren't a couple in a dating sense, but the two talents joi star power to the 11th annual Desert Smash in La Quinta, California.

Can the NHT traffic actually be coming from a human?

Who for all intents and purposes
they do not know they are visiting
your site

Traffic is delivered to you through:

- Pop-ups
- Pop-unders
- iFrames



Your Site

Traffic Vendor

Partner Site

www.universal-traffic.com/?VFJDSz01MTI=

http://justinfan.zerodays.org wants to use your computer's location.

Justin Bieber Ultimate Fan Blog

tom ne's blog

The philosophy of ... object recognition, scene understanding, machine learning, and musings on the future of computer vision

Showing posts with label MIT

Wednesday, May 23, 2012

Why your vision lab needs a reading group

I have a certain attitude when it comes to computer vision research -- don't do it in isolation. Reading vision papers on your own is not enough. Learning how your peers analyze computer vision ideas will only strengthen your own understanding of the field and help you become a more critical thinker. And that is why at places like CMU and MIT we have computer vision reading groups. The ... (also known as MISC-read to the CMU vision hackers) has a long tradition, and ... has made sure it is a strong part of the CMU vision culture. Others ex-CMU hackers such as ... have continued the vision reading group tradition onto places such as Google Research in NY (correct me if this is no longer the case). I have continued the reading group tradition to MIT (where I'm currently a postdoc) because I was surprised there wasn't one already! In reality, we spend so much time talking about papers in an informal setting, that I felt it was a shame to not do so in a more organized fashion.

Image courtesy of Pulypus

My personal philosophy is that as a vision researcher, the way towards the goal of creating novel long-lasting ideas is learning how others think about the field. There's a lot of value in being able to analyze, criticize, and re-synthesize other researchers' ideas. Believe me when I say that a lot of new vision papers come out of top tier vision conferences every year. You should be reading them! But not just reading, also criticizing them among your

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Tomasz Malisiewicz

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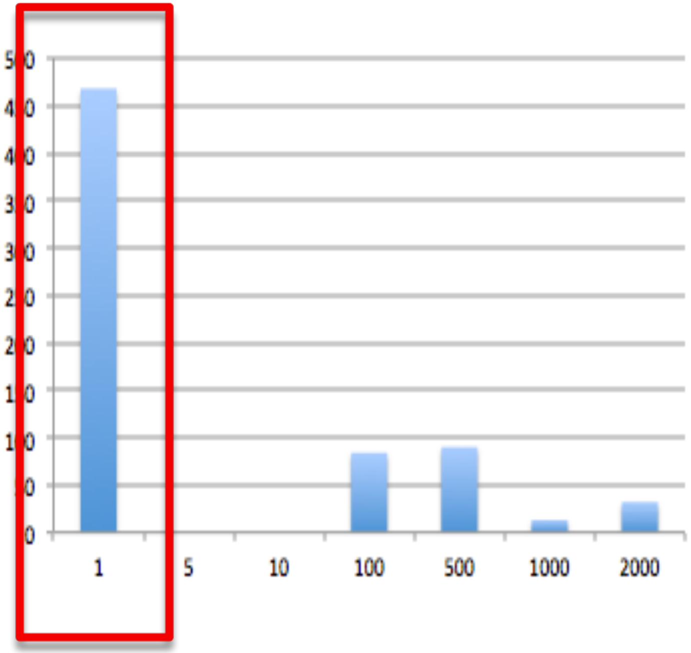

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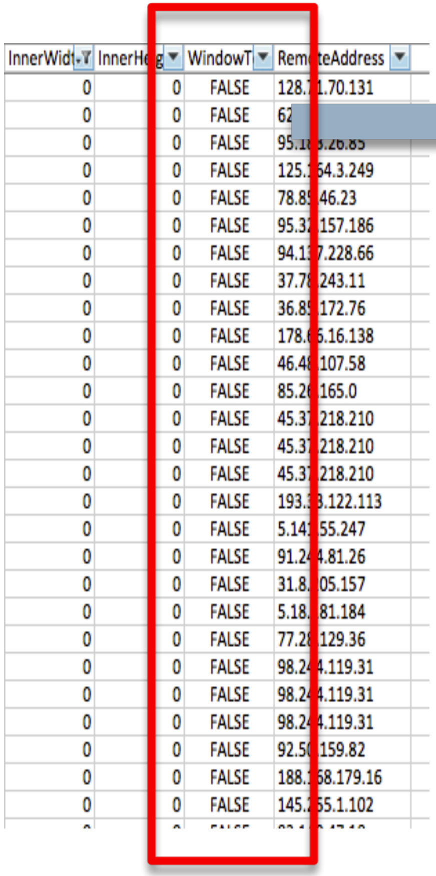

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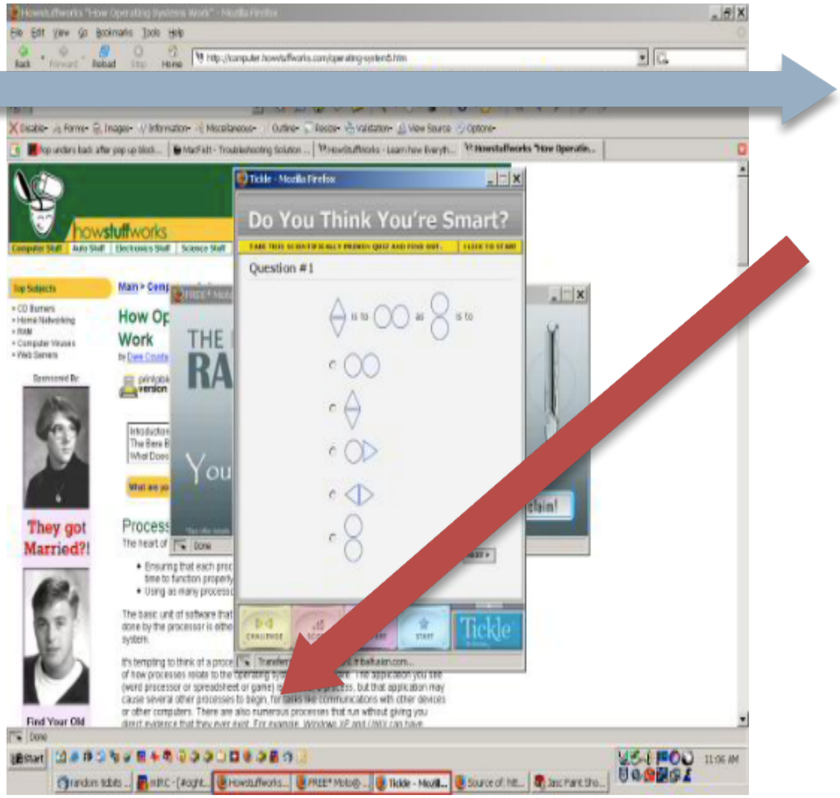

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Karl Dominguez